ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E, PART 27 AND INDUSTRY CANADA RSS-132, RSS-133 and RSS-139 REQUIREMENT

OF

Product Name:	**Vehicle Mount Terminal**
Brand Name:	**Honeywell**
Marketing Name:	**Thor**
Model No.:	**VM2WG**
Model Difference:	**N/A**
IC:	**1693B-VM2W02**
FCC ID:	**KDZVM2W02**
Report No.:	**EH/2012/A0034**
Issue Date:	**Mar. 06, 2013**
FCC Rule Part:	**2 , 22H & 24E & 27**
IC Rule Part:	**RSS 132, Issue 3 and RSS 133, Issue 6 & RSS 139, Issue 2**
Prepared for:	**Honeywell International Inc., Honeywell Scanning and Mobility 9680 Old Bailes Road, Fort Mill, SC 29707, USA**
Prepared by:	**SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

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VERIFICATION OF COMPLIANCE

Applicant:	Honeywell International Inc., Honeywell Scanning and Mobility 9680 Old Bailes Road, Fort Mill, SC 29707, USA
Product Name:	Vehicle Mount Terminal
Brand Name:	Honeywell
Marketing Name:	Thor
IC:	1693B-VM2W02
FCC ID:	KDZVM2W02
Model No.:	VM2WG
Model Difference:	N/A
File Number:	EH/2012/A0034
Date of test:	Oct. 05, 2012 ~Mar. 06, 2013
Date of EUT Received:	Oct. 05, 2012

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004, Issue 3 of RSS-Gen 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 and IC standards Issue 3 of RSS-132, Issue 6 of RSS-133, Issue 2 of RSS-139.
The test results of this report relate only to the tested sample identified in this report.

Test By:	Marcus Tseng	***Date:***	Mar. 06, 2013
	Marcus Tseng / Engineer		
Prepared By:	Tiffany Kao	***Date:***	Mar. 06, 2013
	Tiffany Kao / Clerk		
Approved By	Jim Chang	***Date:***	Mar. 06, 2013
	Jim Chang / Supervisor		

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Version

Version No.	Date	Description
00	Mar. 06, 2013	Initial creation of document

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Table of Contents

1. GENERAL PRODUCT INFORMATION 7
1.1. Related Submittal(s) / Grant (s) 10
1.2. Test Methodology 10
1.3. Test Facility 10
1.4. Special Accessories 10
1.5. Equipment Modifications 10
2. SYSTEM TEST CONFIGURATION 11
2.1. EUT Configuration 11
2.2. EUT Exercise 11
2.3. Test Procedure 11
2.4. Measurement Equipment Used: 12
2.5. Configuration of Tested System 14
3. SUMMARY OF TEST RESULTS 16
4. DESCRIPTION OF TEST MODES 18
5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION 19
6. RF POWER OUTPUT MEASUREMENT 20
6.1. Standard Applicable: 20
6.2. Test Set-up: 21
6.3. Measurement Procedure: 21
6.4. Measurement Equipment Used: 21
6.5. Measurement Result: 22
7. PEAK TO AVERAGE RATIO 31
7.1. Standard Applicable: 31
7.2. Test SET-UP (Block Diagram of Configuration): 31
7.3. Measurement Procedure: 32
7.4. Measurement Equipment Used: 32
7.5. Measurement Result: 32
8. ERP, EIRP MEASUREMENT 60
8.1. Standard Applicable: 62
8.2. Test SET-UP (Block Diagram of Configuration): 62
8.3. Measurement Procedure: 64

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8.4. Measurement Equipment Used: 65
8.5. Measurement Result: (Main Antenna) 66
9. 99% OCCUPIED BANDWIDTH MEASUREMENT 84
9.1. Standard Applicable: 84
9.2. Test Set-up: 84
9.3. Measurement Procedure: 85
9.4. Measurement Equipment Used: 85
9.5. Measurement Result: 86
10. OUT OF BAND EMISSION AT ANTENNA TERMINALS 146
10.1. Standard Applicable: 146
10.2. Test SET-UP: 148
10.3. Measurement Procedure: 149
10.4. Measurement Equipment Used: 149
10.5. Measurement Result: 150
11. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT 218
11.1. Standard Applicable: 218
11.2. EUT Setup (Block Diagram of Configuration): 220
11.3. Measurement Procedure: 221
11.4. Measurement Equipment Used: 221
11.5. Measurement Result: 221
12. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT 390
12.1 Standard Applicable: 390
12.2 Test Set-up: 390
12.3 Measurement Procedure: 391
12.4 Measurement Equipment Used: 391
12.5 Measurement Result: 392
13 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT 396
13.1 Standard Applicable: 396
13.2 Test Set-up: 396
13.3 Measurement Procedure: 396
13.4 Measurement Equipment Used: 396
13.5 Measurement Result: 397

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14 MAXIMUM PERMISSIBLE EXPOSURE (MPE) 399

14.1 Related Submittal(s) / Grant (s) 399

14.2 Special Accessories 399

14.3 Equipment Modifications 399

14.4 Limitation 399

14.5 Maximum Permissible Exposure (MPE) Evaluation 400

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Vehicle Mount Terminal	
Marketing Name:	Thor	
Brand Name:	Honeywell	
Model No.:	VM2WG	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	10.8Vdc Li-ion battery or 15Vdc from AC/DC adapter	
	Battery:	Model No.: OVT310L1R00 Supplier: TOTEX International Limited
	Adapter:	Model No.:GT-81081-6015-T3, Supplier: GlobTek, Inc.

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GPRS / WCDMA

Cellular Phone Standards Frequency Range and Power.	Operating Frequency		Rated Power
	GPRS 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm
	EDGE 850, Class 10	824.2 MHz– 848.8 MHz	27 dBm
	GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 10	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24 dBm
Type of Emission:	GPRS 850: 245KGXW GPRS 1900: 247KGXW EDGE 850: 250KG7W EDGE 1900: 246KG7W WCDMA Band II: 4M14F9W WCDMA Band IV: 4M14F9W WCDMA Band V: 4M14F9W HSDPA Band II: 4M15F9W HSDPA Band IV: 4M17F9W HSDPA Band V: 4M14F9W HSUPA Band II: 4M15F9W HSUPA Band IV: 4M16F9W HSUPA Band V: 4M16F9W CDMA 2000 Cellular: 1M27F9W CDMA 2000 PCS: 1M27F9W CDMA 2000 EVDO Cellular: 1M27F9W CDMA 2000 EVDO PCS: 1M27F9W		
IMEI:	004402146156595		
Antenna Designation:	1. Dipole Antenna, Model No.: TRAB806/17103 Antenna Gain: GSM: 890-960 MHz:5.9dBi, PCS: 1850-1990 MHz: 4.2dBi UMTS: 1900-2170 MHz: 4.4 dBi 2. PIFA Antenna, Model No.: BLADE, PENTABAND Antenna Gain: 0dBi,		

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CDMA 2000/EVDO:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power.	CDMA 2000 Cellular	824.7 MHz – 848.31 MHz	24 dBm
	CDMA 2000 PCS	1851.25 MHz– 1908.75 MHz	24 dBm
	CDMA 2000 Cellular / EVDO Cellular	824.7 MHz – 848.31 MHz	24 dBm
	CDMA 2000 PCS / EVDO PCS	1851.25 MHz– 1908.75 MHz	24 dBm

This test report applies for GPRS/EDGE 850/1900, CDMA 2000, EVDO and WCDMA/HSUPA/HSDPA Bands II, Band IV, Band V.

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

This submittal(s) (test report) is intended for **FCC ID: KDZVM2W02** filing to comply with Section Part 22 subpart H, Part 24 subpart E, Part 27of the FCC CFR 47 Rules. And **IC: 1693B-VM2W02** filing to comply with Industry Canada Issue 3 of RSS-132, Issue 6 of RSS-133, Issue 2 of RSS-139.

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 and issue 3 of RSS-132 and issue 6 of RSS-133 and issue 2 of RSS-139, and RSS Gen Issue3.

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

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

971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, and Signal Bandwidth.

1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

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 operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C and RSS-Gen Issue 3, 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.**
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	US41160416	03/17/2012	03/16/2014
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2012	08/11/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/17/2012	10/16/2013
Temperature Chamber	TERCHY	MHG-120LF	911009	04/16/2012	04/15/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013
DC Power Supply	Agilent	E3640A	MY40005907	07/15/2011	07/14/2013

Conducted Emission Test Site – Equipments Calibrated During the Test					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
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

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2013
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2013
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn antenna	ETS.LINDGREN	3117	123991	01/22/2011	01/21/2013
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/17/2014
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2012	12/27/2013
Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014
Signal Generator	Agilent	E4438C	MY45093613	07/15/2011	07/14/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2012	02/27/2013
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2012	08/11/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/17/2012	10/16/2013
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	01/04/2012	01/03/2013
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2012	01/03/2013
Filter 800-1000	Micro-Tronics	EWT	M2	02/28/2012	02/27/2013
Filter 1800-2000	Micro-Tronics	EWT	M2	02/28/2012	02/27/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013

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966 Chamber – Equipments Calibrated During the Test					
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
Horn antenna	ETS.LINDGREN	3117	123991	01/21/2013	01/20/2015
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2012	07/16/2014
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014
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
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

Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

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2.5. Configuration of Tested System

Fig. 2-1 Configuration for Radiated Emission

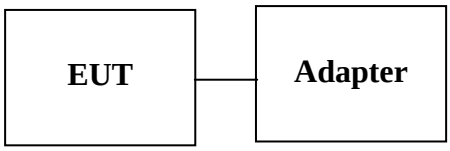


Fig. 2-2Configuration (Remote Side)

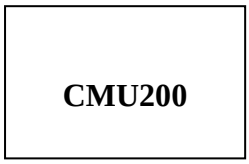


Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(c)(10) §27.50(d)(2)	N/A	RF Power Output	Compliant
§27.50(i)	§5.4 (RSS-132) §6.4 (RSS-133) §6.4 (RSS-139)	Peak to Average Ratio	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(d)(2)	§4.8 (RSS-Gen Issue 3) §4.4 (RSS-132) §6.4 (RSS-133) §6.4 (RSS-139)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§4.6.1 (RSS-Gen Issue 3) §2.3 (RSS-133) §2.3 (RSS-139)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	§4.9 (RSS-Gen Issue 3) §4.5 (RSS-132) §6.5 (RSS-133) §6.5 (RSS-139)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-132) §6.3 (RSS-133) §6.3 (RSS-139)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235 §27.54	§4.7 (RSS-Gen Issue 3) §4.3 (RSS-132) §6.3 (RSS-133) §6.3 (RSS-139)	Frequency Stability vs. Voltage	Compliant
N/A	§4.10 (RSS-Gen Issue 3) §5.6 (RSS-132) §6.6 (RSS-133)	Receiver Spurious Emissions	Compliant

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Max ERP/EIRP measurement result (First Antenna):

	dBm		W
GPRS 850 Band	24.49	ERP	0.281
GPRS 1900 Band	27.90	EIRP	0.617
EDGE 850 Band	23.81	ERP	0.240
EDGE 1900 Band	29.14	EIRP	0.820
WCDMA Band II	26.97	EIRP	0.498
WCDMA Band IV	25.98	EIRP	0.396
WCDMA Band V	21.66	ERP	0.147
HSUPA Band II	27.91	EIRP	0.618
HSUPA Band IV	26.87	EIRP	0.486
HSUPA Band V	22.46	ERP	0.176
HSDPA Band II	27.30	EIRP	0.537
HSDPA Band IV	26.61	EIRP	0.458
HSDPA Band V	22.47	ERP	0.177
CDMA 2000 Cellular	23.41	ERP	0.219
CDMA 2000 PCS	28.04	EIRP	0.637
CDMA 2000 EVDO Cellular	22.90	ERP	0.195
CDMA 2000 EVDO PCS	27.15	EIRP	0.519

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Max ERP/EIRP measurement result (Second Antenna):

	dBm		W
GPRS 850 Band	24.97	ERP	0.314
GPRS 1900 Band	28.53	EIRP	0.713
EDGE 850 Band	25.21	ERP	0.332
EDGE 1900 Band	25.90	EIRP	0.389
WCDMA Band II	24.21	EIRP	0.264
WCDMA Band IV	24.44	EIRP	0.278
WCDMA Band V	21.98	ERP	0.158
HSUPA Band II	25.57	EIRP	0.361
HSUPA Band IV	24.38	EIRP	0.274
HSUPA Band V	22.86	ERP	0.193
HSDPA Band II	26.10	EIRP	0.407
HSDPA Band IV	24.60	EIRP	0.288
HSDPA Band V	22.56	ERP	0.180
CDMA 2000 Cellular	24.81	ERP	0.303
CDMA 2000 PCS	26.60	EIRP	0.457
CDMA 2000 EVDO Cellular	23.56	ERP	0.227
CDMA 2000 EVDO PCS	25.57	EIRP	0.361

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as (E2 mode) for GSM/GPRS/EDGE, CDMA2000, CDMA2000 EVDO and WCDMA/HSDPA/HSUPA/HSPA+ Band II, IV, V were reported with power adaptor for Main Antenna and Series Antenna.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

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

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6. RF POWER OUTPUT MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046

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

FCC 24.232(c) Peak Power Measurement limited to 2W

FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.

Part 27, 50(d)(2) Portable stations are limited to 1W

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

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

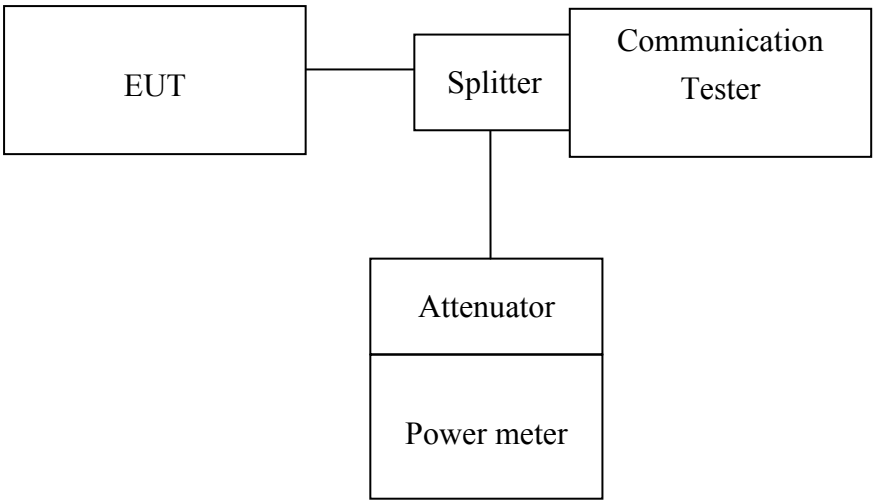
Maximum Output Powers for HSUPA

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

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6.2. Test Set-up:



Note: *Measurement setup for testing on Antenna connector*

6.3. Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.
The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology
to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c)
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 mode

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.20	32.00	32.10	31.90
	836.6	190	32.30	32.10	32.20	32.00
	848.8	251	32.50	32.30	32.40	32.20

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	30.80	30.60	30.70	30.60
	1880.0	661	30.50	30.40	30.50	30.40
	1909.8	810	30.50	30.30	30.40	30.20

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 850	824.2	128	30.00	27.00	29.90	26.80
	836.6	190	30.00	26.90	29.90	26.80
	848.8	251	30.10	26.90	30.00	26.90

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
EDGE 1900	1850.2	512	29.70	26.60	29.60	26.50
	1880.0	661	29.40	26.30	29.40	26.30
	1909.8	810	29.20	26.20	29.20	26.20

Cable loss offset Low Band: 0.34dB

Cable loss offset High Band: 0.5dB

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6.5.1.2.: WCDMA mode

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

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	27.38	24.37
	1880.0	9400	27.54	24.46
	1907.6	9538	27.05	24.06

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band IV	1712.4	1312	27.01	24.14
	1732.6	1412	27.08	24.17
	1752.6	1513	27.04	24.15

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	27.09	23.68
	836.6	4183	27.25	23.95
	846.6	4233	27.07	23.77

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

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6.5.1.3.: CDMA 2000 mode

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 Cellular	824.70	1013	23.85	23.66
	836.52	384	24.15	23.51
	848.31	777	24.56	23.44

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 PCS	1851.25	25	23.85	23.71
	1880.00	600	23.89	23.77
	1908.75	1175	23.79	23.33

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 EVDO Cellular	824.70	1013	24.65	24.28
	836.52	384	24.97	24.19
	848.31	777	24.82	24.08

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
CDMA 2000 EVDO PCS	1851.25	25	24.05	23.91
	1880.00	600	24.09	23.83
	1908.75	1175	24.11	23.48

Cable loss offset CDMA2000 Cell: 0.5dB

Cable loss offset CDMA PCS: 0.3dB

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6.5.1.4.:HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d ***(SF)***	β_c/β_d	β_{HS} (*Note1, Note 2*)	**CM (dB)** *(Note 3)*	**MPR (dB)** *(Note 3)*	**RMC (Kbps)**
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

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

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Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	21.31	21.79	21.81	20.3dBm – 25.7dBm	Pass
	2	21.39	21.58	21.67	20.3dBm – 25.7dBm	Pass
	3	20.89	21.15	21.19	19.8dBm – 25.7dBm	Pass
	4	20.92	21.20	21.30	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.54	23.48	23.01	20.3dBm – 25.7dBm	Pass
	2	23.45	23.44	22.96	20.3dBm – 25.7dBm	Pass
	3	21.87	21.84	21.77	19.8dBm – 25.7dBm	Pass
	4	21.69	21.62	21.59	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	22.48	22.37	22.27	20.3dBm – 25.7dBm	Pass
	2	22.32	22.26	22.25	20.3dBm – 25.7dBm	Pass
	3	21.89	21.71	21.71	19.8dBm – 25.7dBm	Pass
	4	21.96	21.45	21.70	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	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

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Results:

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA (B2)	1	21.08	21.28	21.13	17.3dBm – 25.7dBm	Pass
	2	19.87	20.56	20.53	16.8dBm – 25.7dBm	Pass
	3	19.42	20.17	20.11	17.8dBm – 25.7dBm	Pass
	4	20.81	20.74	20.68	16.8dBm – 25.7dBm	Pass
	5	20.84	21.25	21.20	17.3dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.03	22.73	22.72	18.8dBm – 25.7dBm	Pass
	2	20.74	20.73	21.32	16.8dBm – 25.7dBm	Pass
	3	20.28	21.15	20.86	17.8dBm – 25.7dBm	Pass
	4	21.74	21.70	21.46	16.8dBm – 25.7dBm	Pass
	5	21.90	21.88	21.88	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4172	4233		
HSUPA (B5)	1	21.97	21.54	22.04	17.3dBm – 25.7dBm	Pass
	2	20.62	21.03	20.89	16.8dBm – 25.7dBm	Pass
	3	20.72	20.62	20.98	17.8dBm – 25.7dBm	Pass
	4	21.60	21.17	21.02	16.8dBm – 25.7dBm	Pass
	5	21.70	21.58	21.45	17.3dBm – 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)	30.5	30.5	30.5	30.5	28	26.1	24.1	21.9	20	
PCL	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Output power (dBm)	18.1	16.3	13.9	11.9	9.8	7.9	5.9	4.1	2.6	0.8

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

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 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 27.50(i)

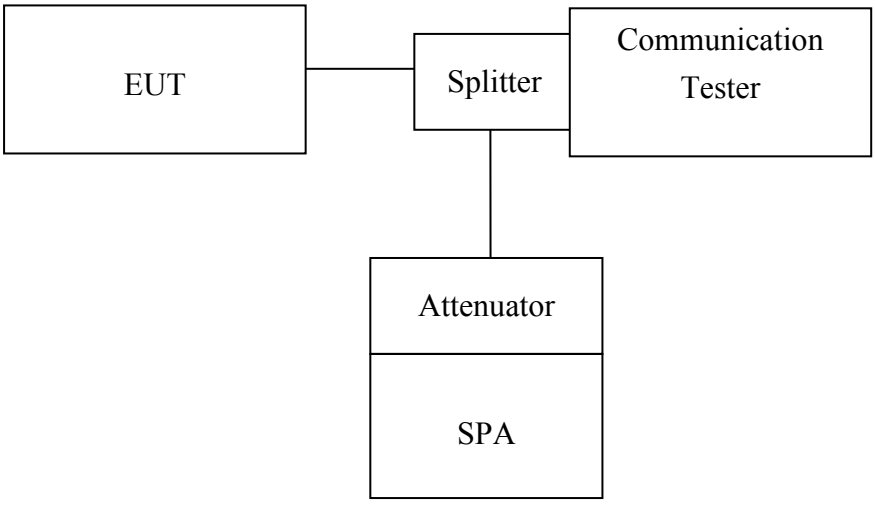
Peak transmit power shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of rms-equivalent voltage.

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.

According to issue 3 of RSS 132, section 5.4 and issue 6 of RSS 133, issue 2 of RSS 139, section 6.4. Transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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



Note: *Measurement setup for testing on Antenna connector*

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7.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

7.5. Measurement Result:

Refer to next page for plot.

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Figure 7-1: GSM 850 Channel Low

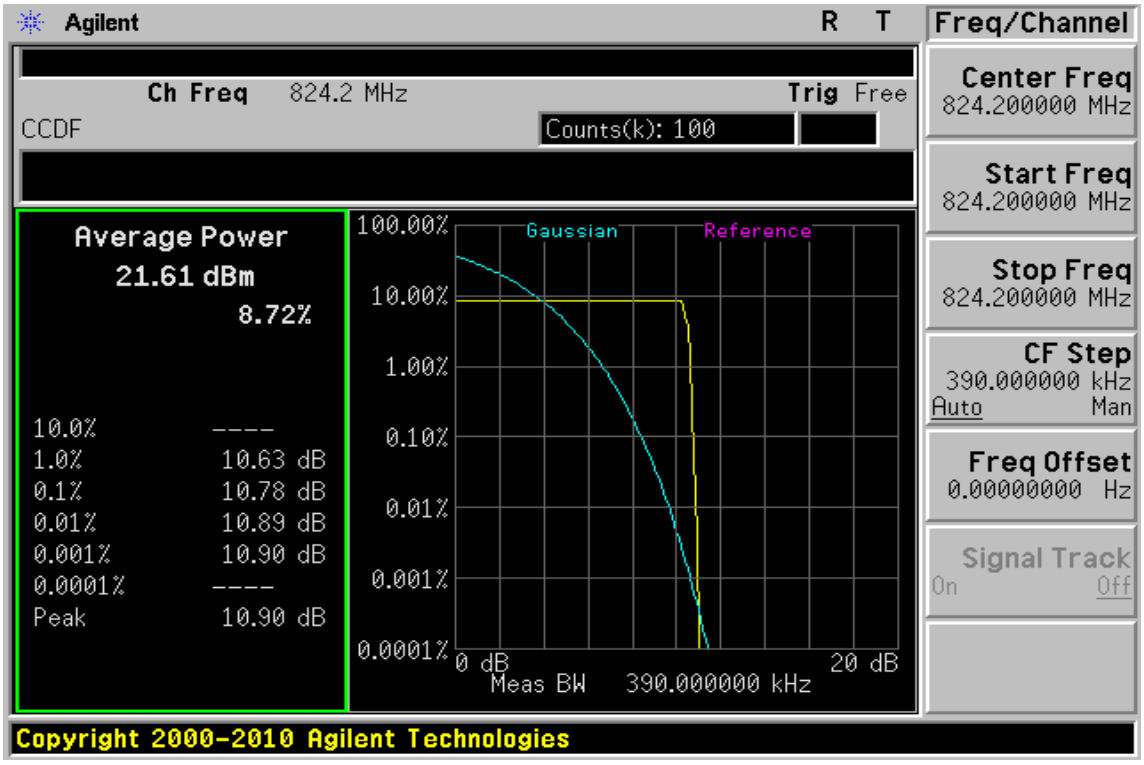
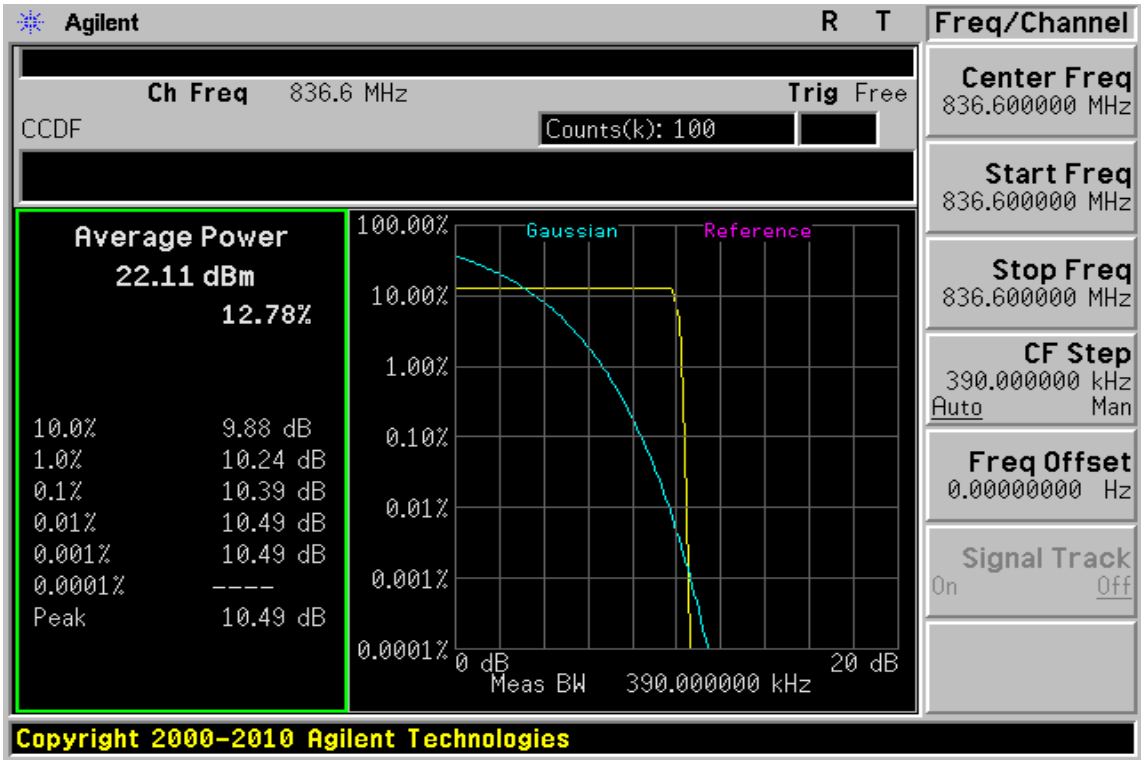


Figure 7-2: GSM 850 Channel Mid



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Figure 7-3: GSM 850 Channel High

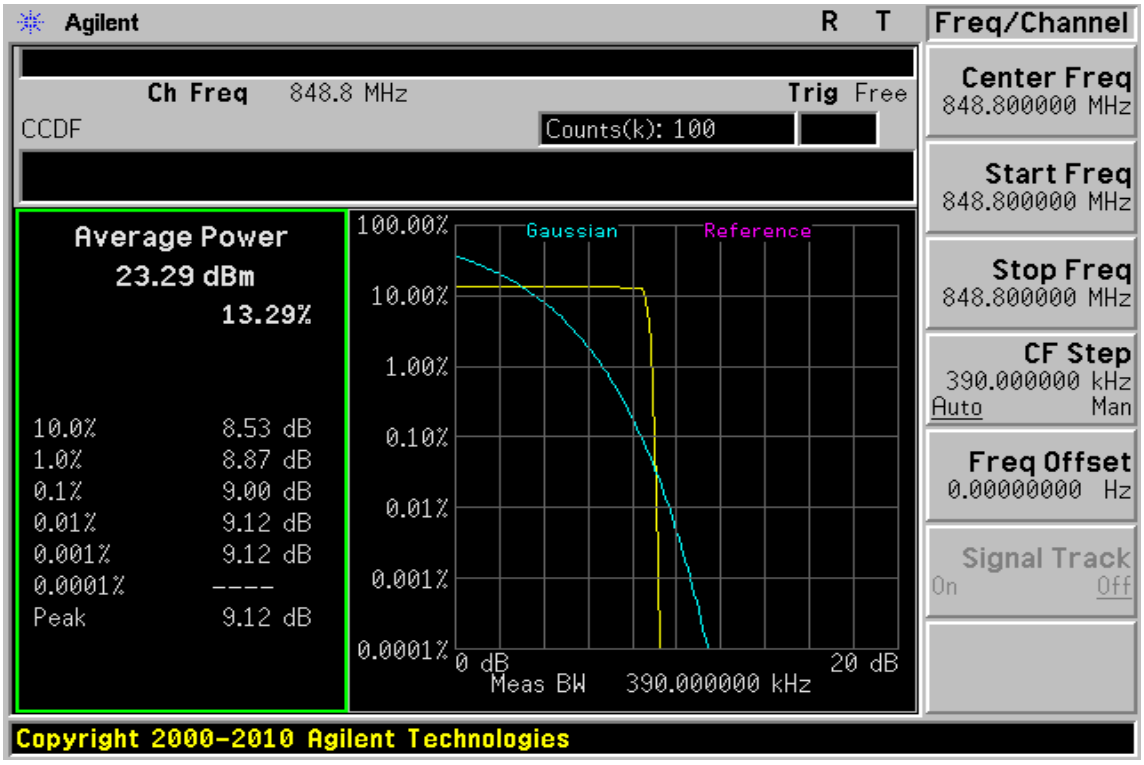
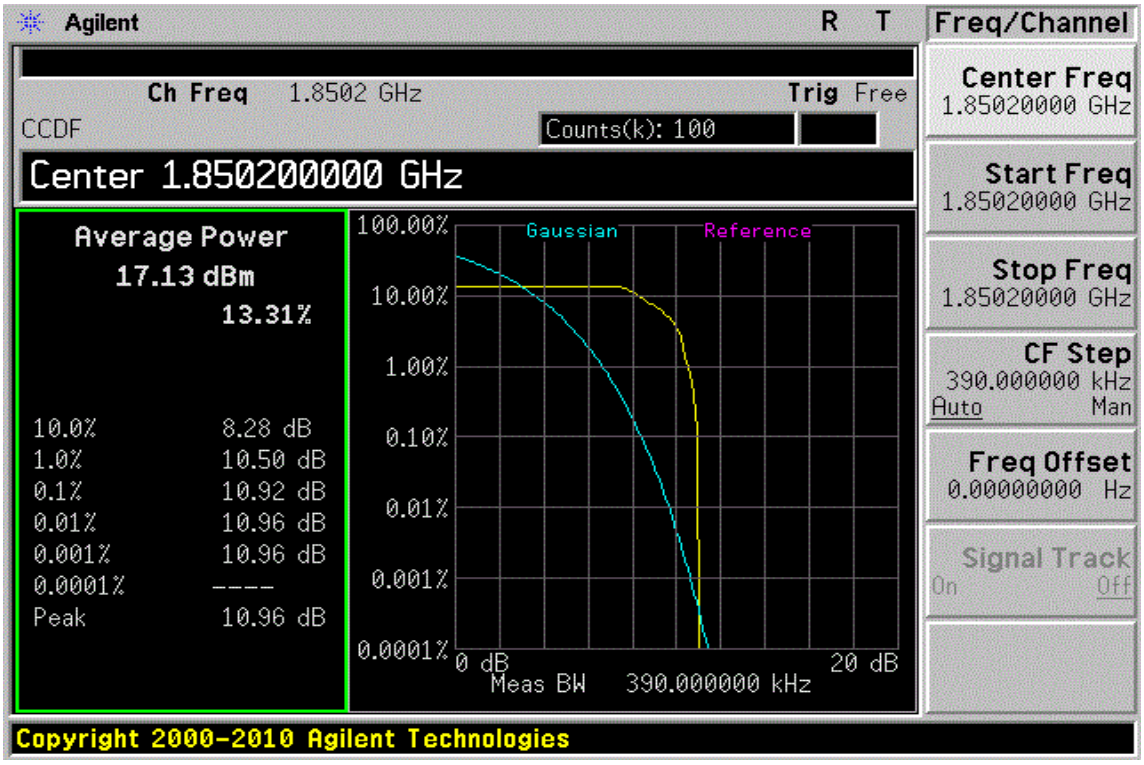


Figure 7-4: GSM 1900 Channel Low



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Figure 7-5: GSM 1900 Channel Mid

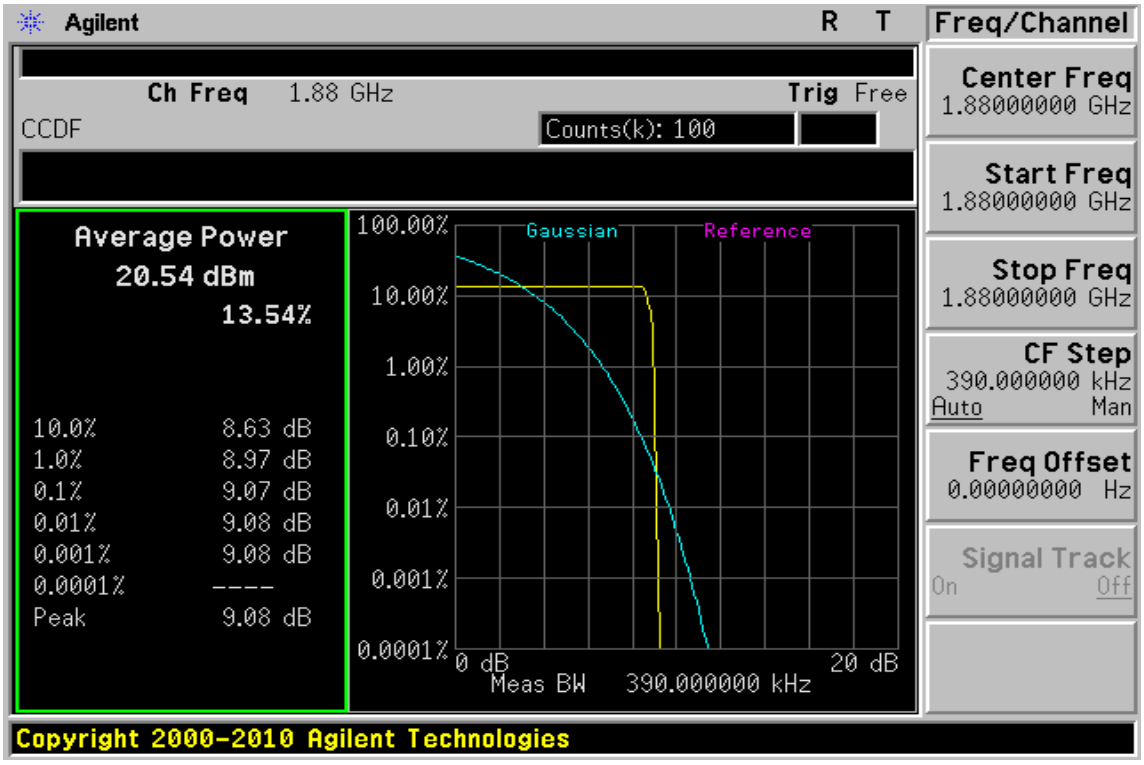
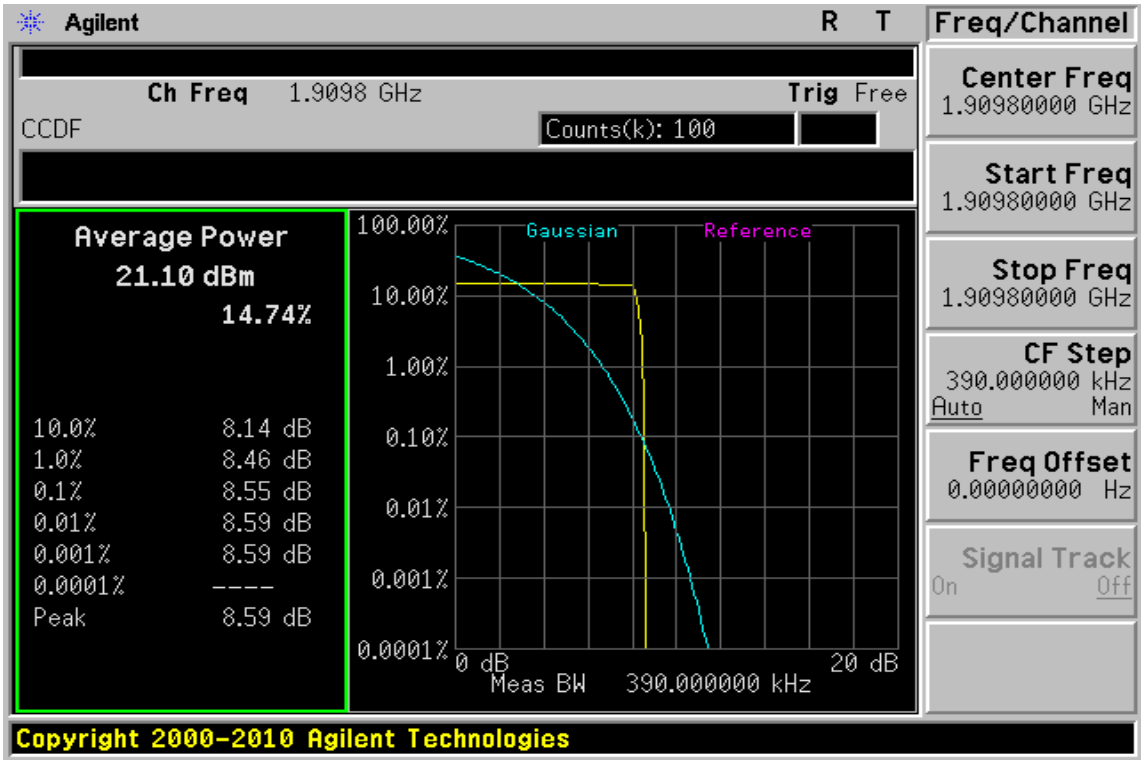


Figure 7-6: GSM 1900 Channel High



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Figure 7-7: GPRS 850 Channel Low

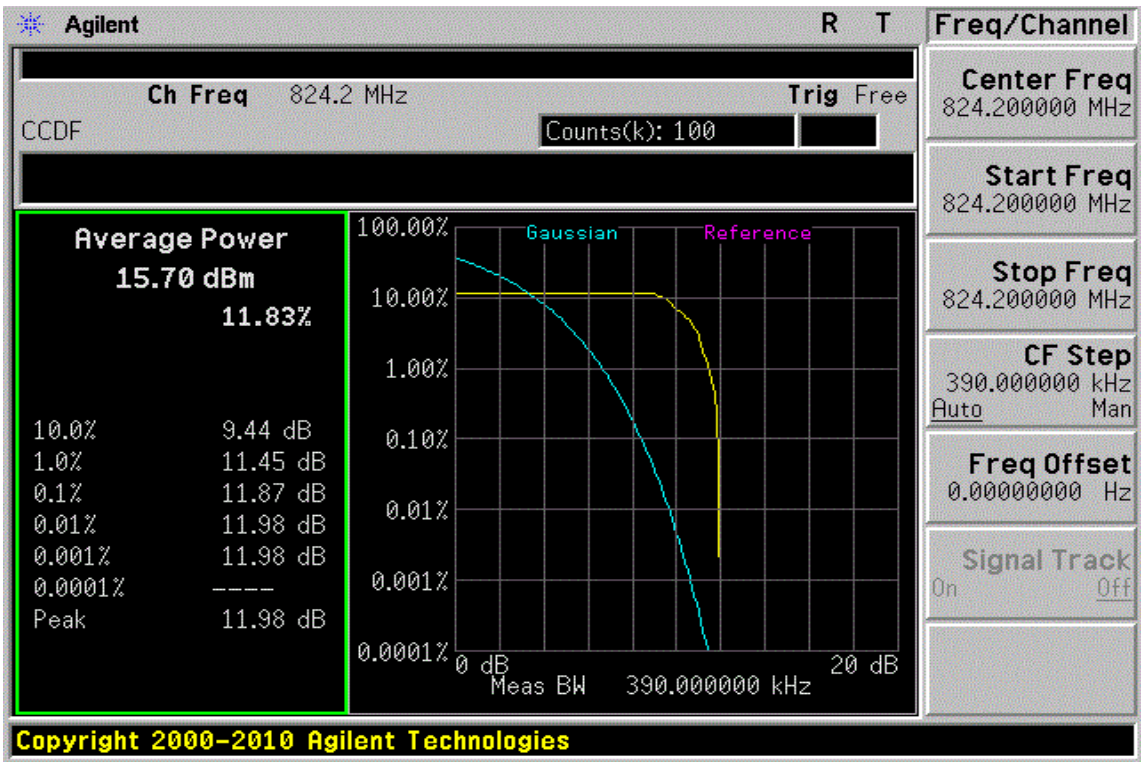
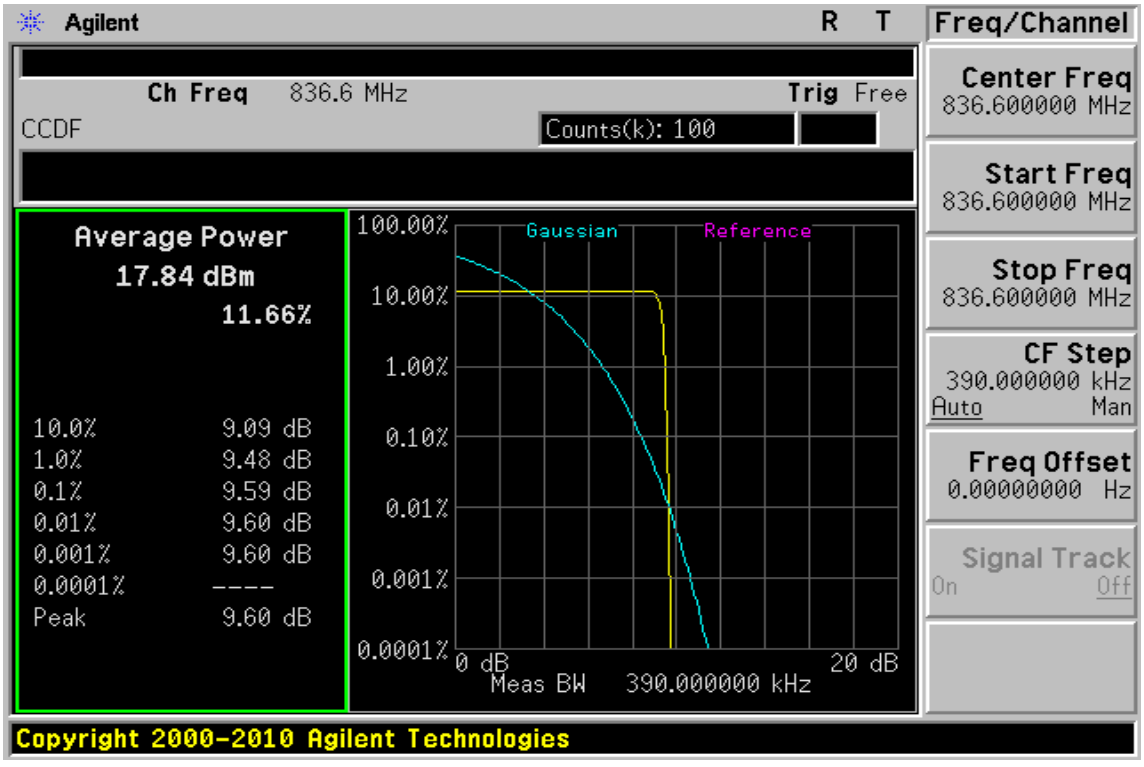


Figure 7-8: GPRS 850 Channel Mid



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Figure 7-9: GPRS 850 Channel High

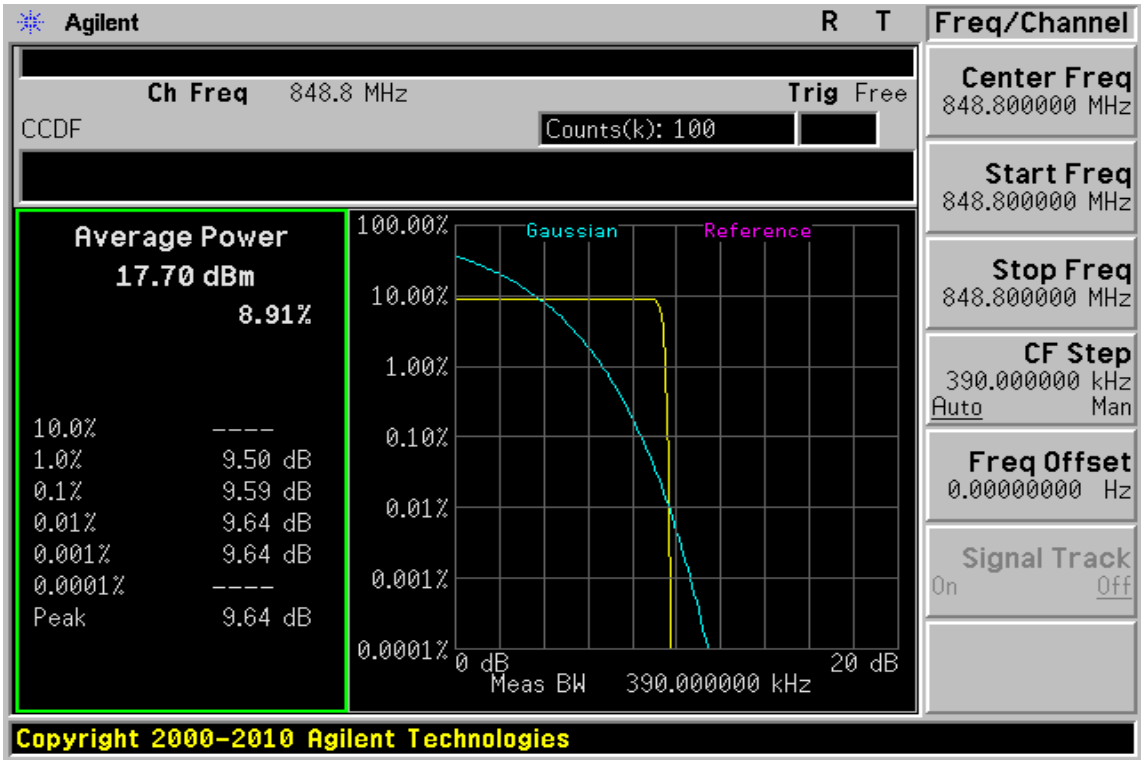
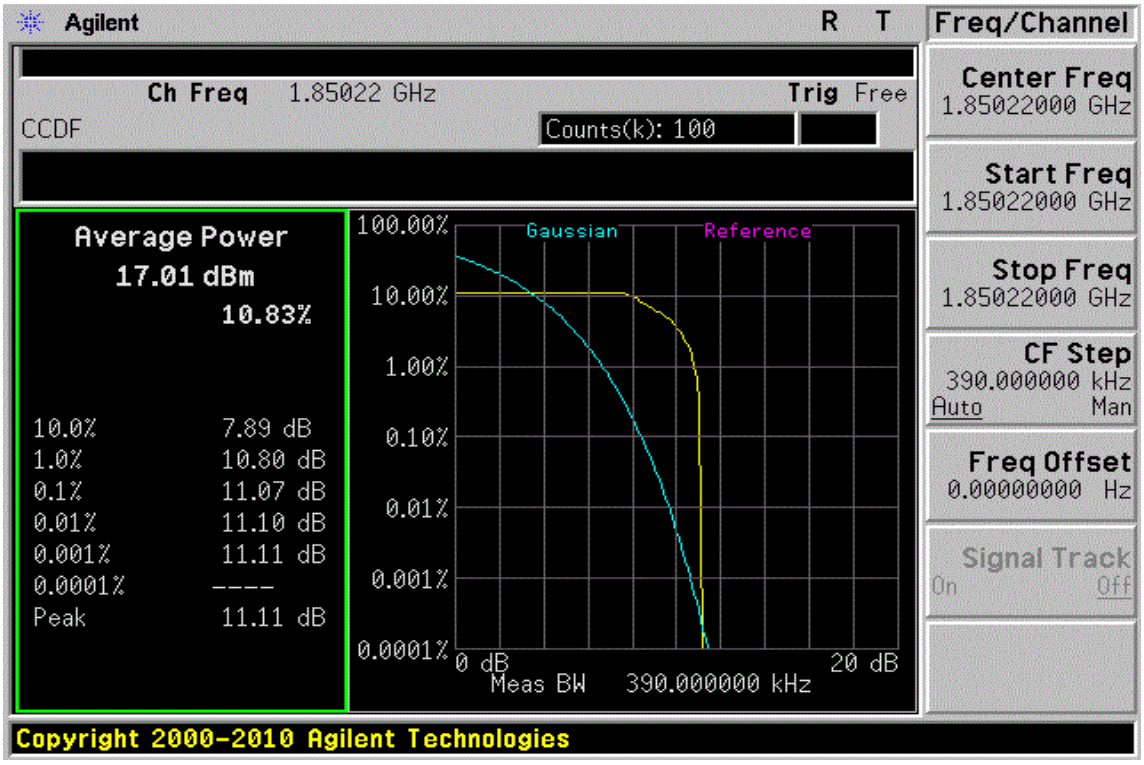


Figure 7-10: GPRS 1900 Channel Low



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Figure 7-11 GPRS 1900 Channel Mid

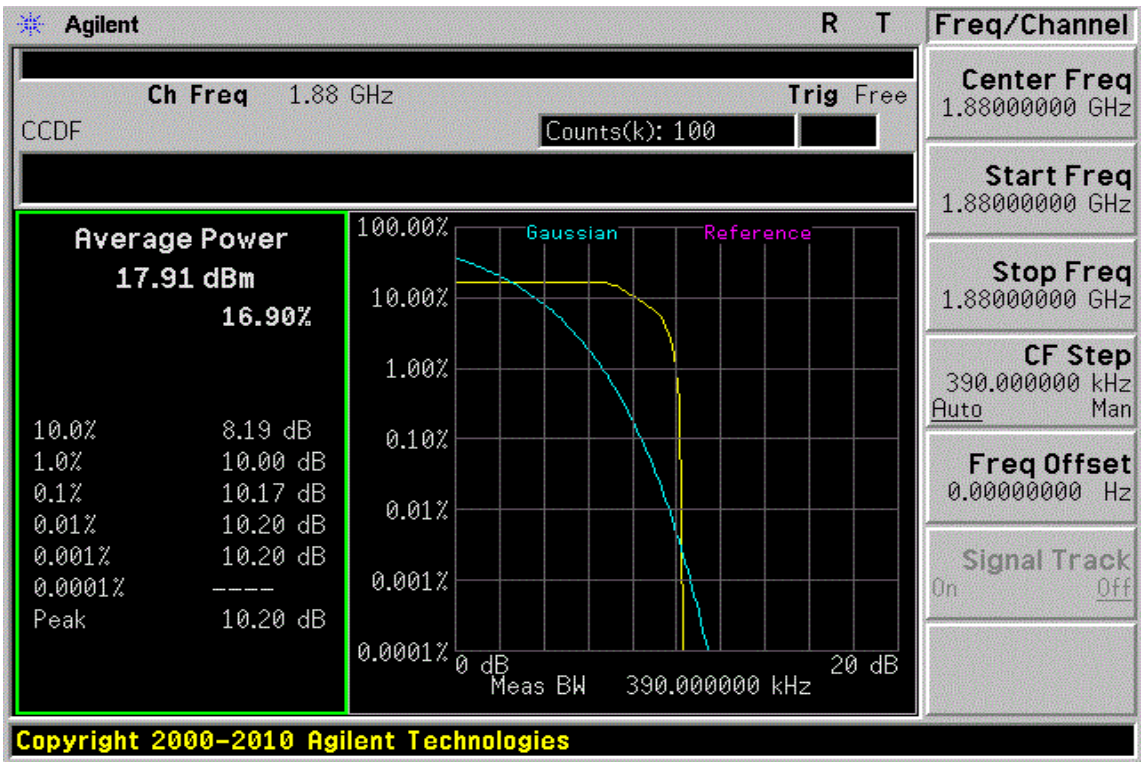
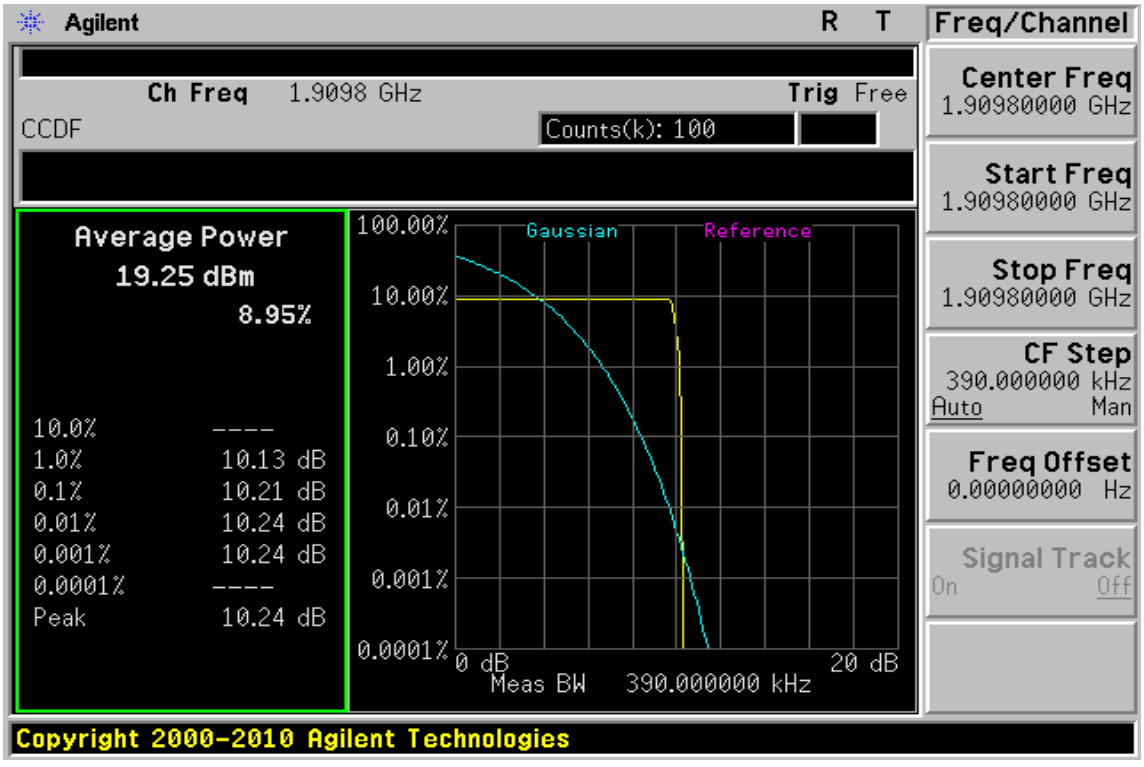


Figure 7-12: GPRS 1900 Channel High



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Figure 7-13: EDGE 850 Channel Low

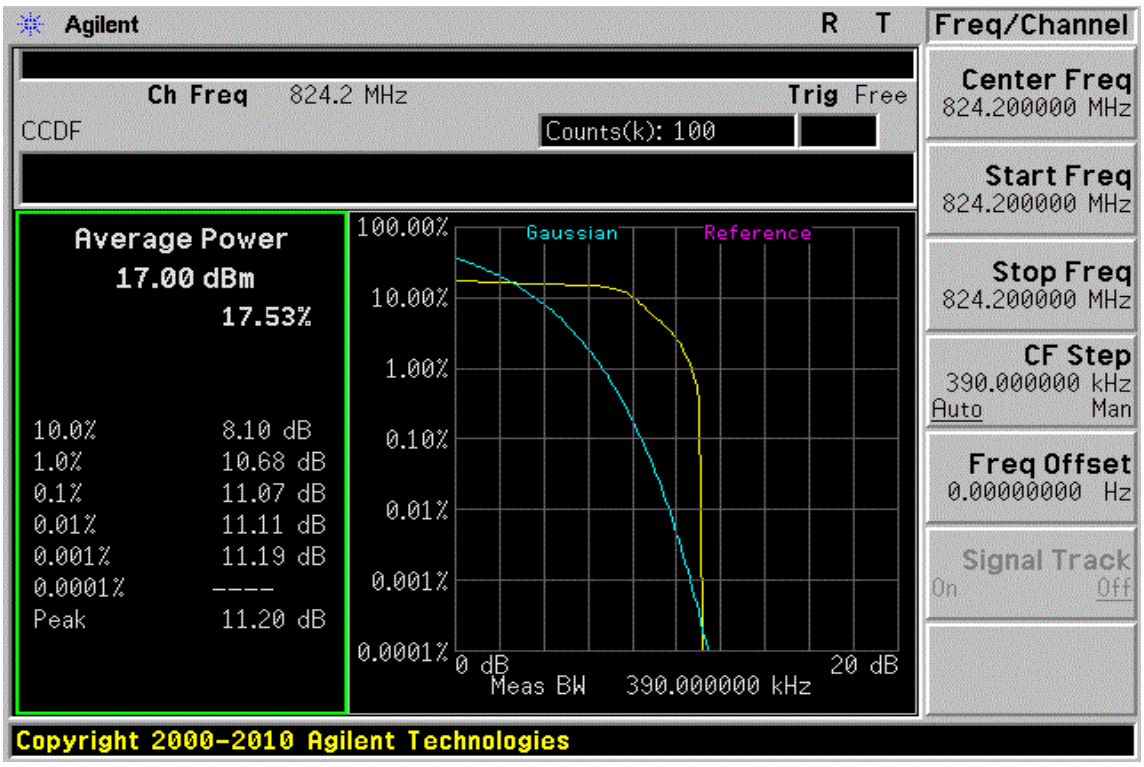
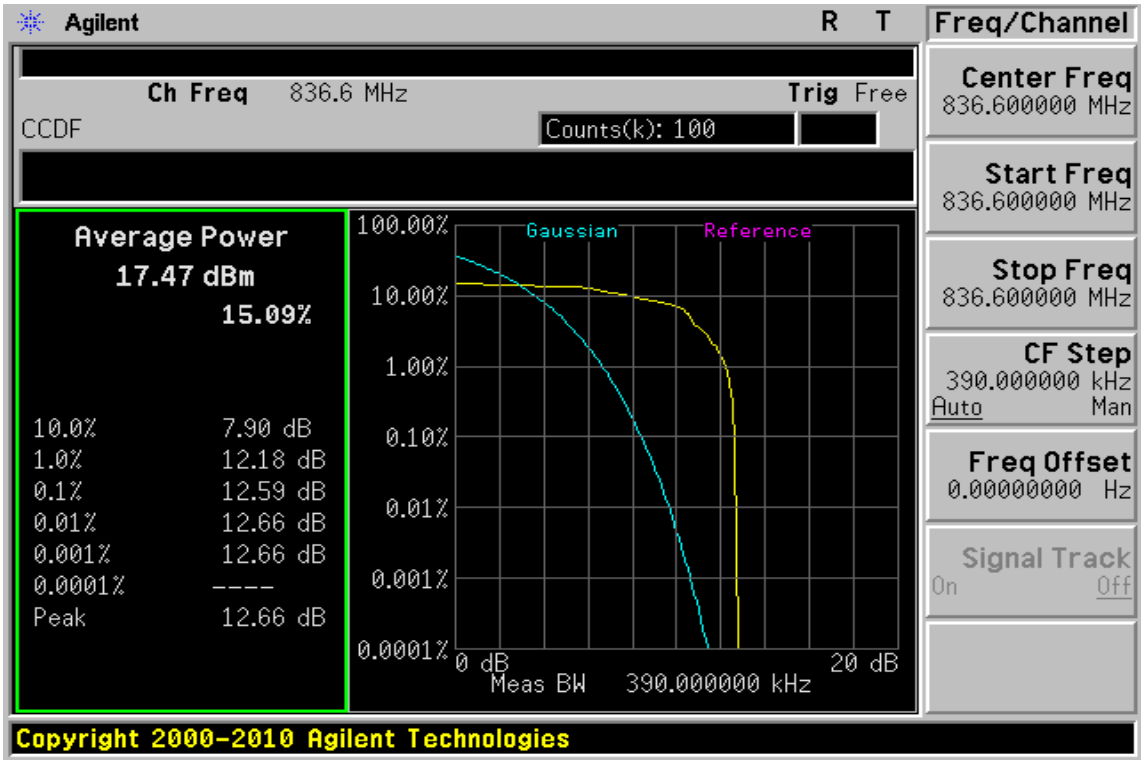


Figure 7-14 EDGE 850 Channel Mid



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Figure 7-15: EDGE 850 Channel High

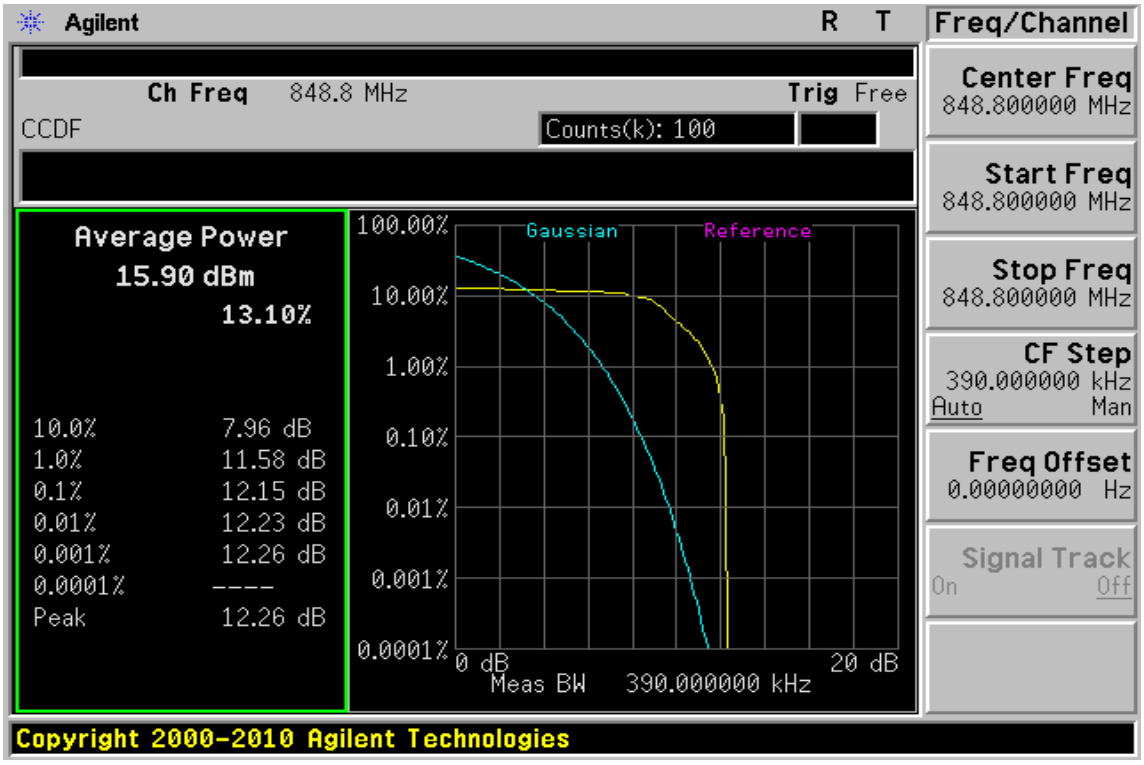
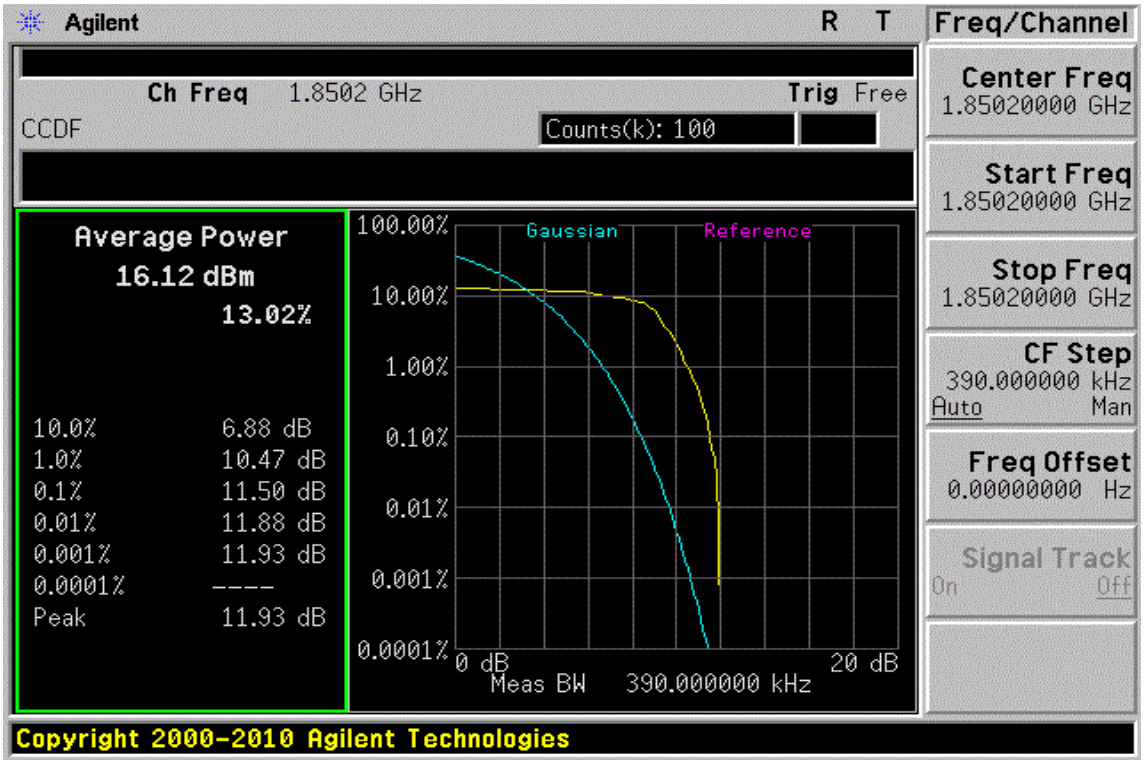


Figure 7-16: EDGE 1900 Channel Low



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Figure 7-17 EDGE 1900 Channel Mid

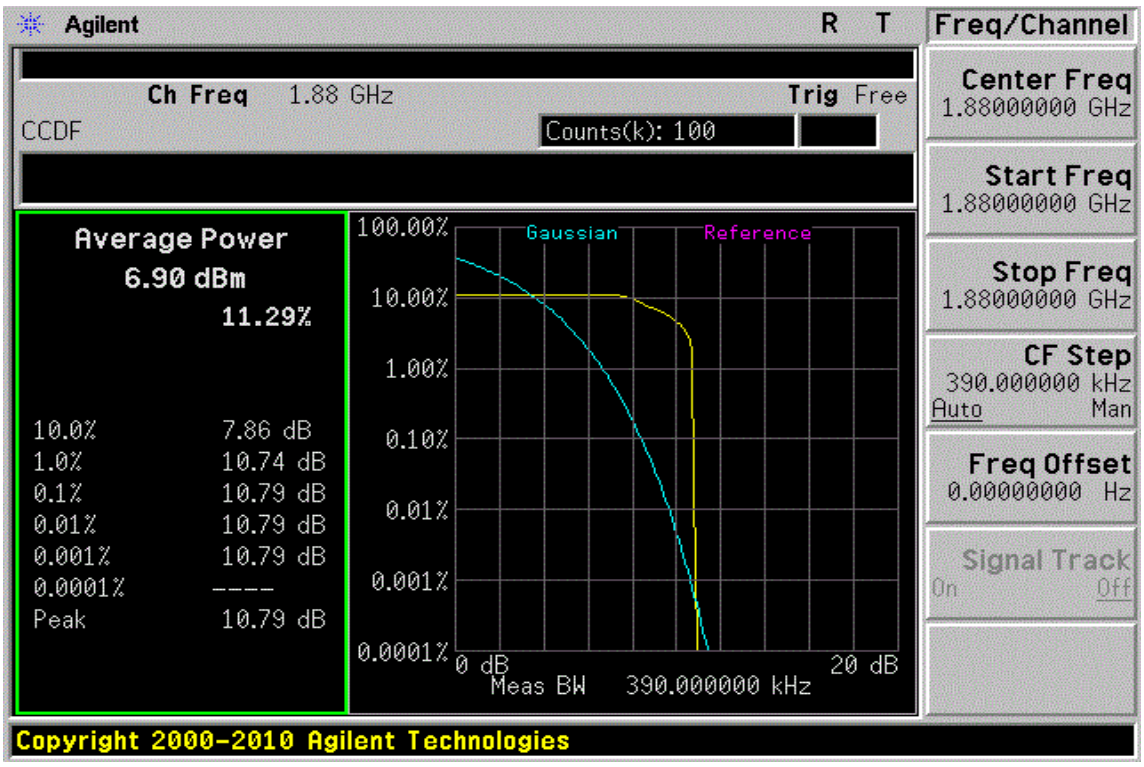
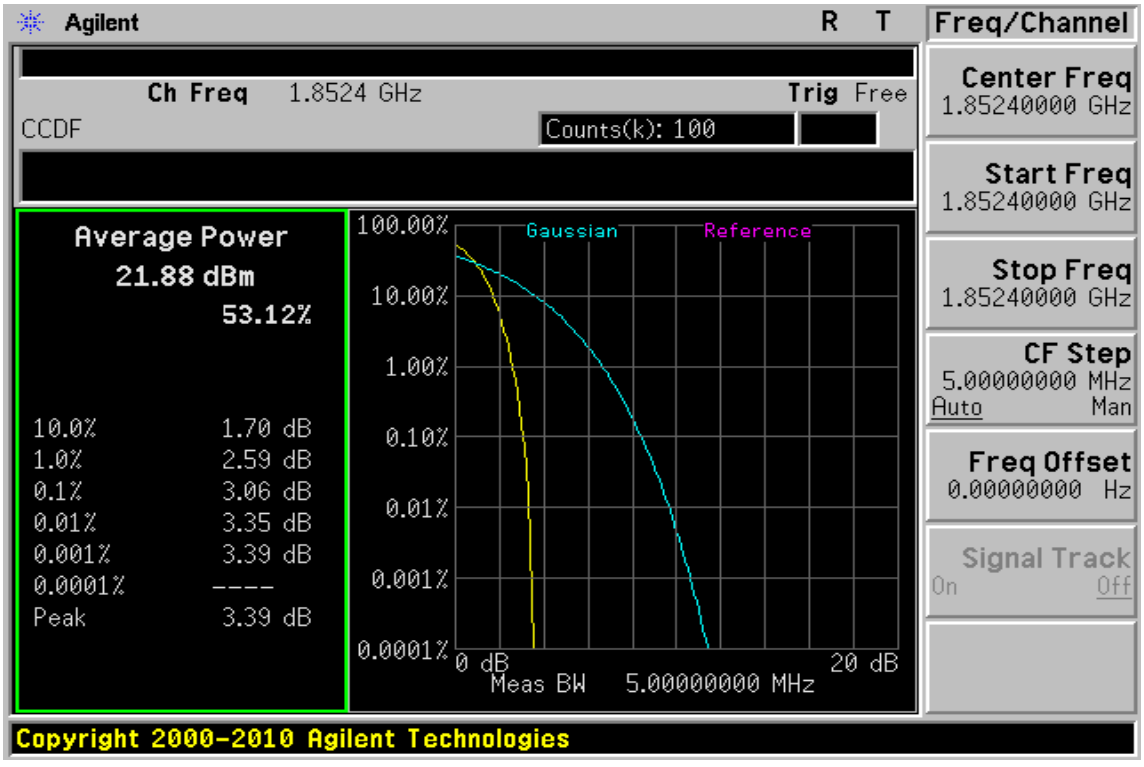


Figure 7-18: EDGE 1900 Channel High



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Figure 7-19: WCDMA Band II Channel Low

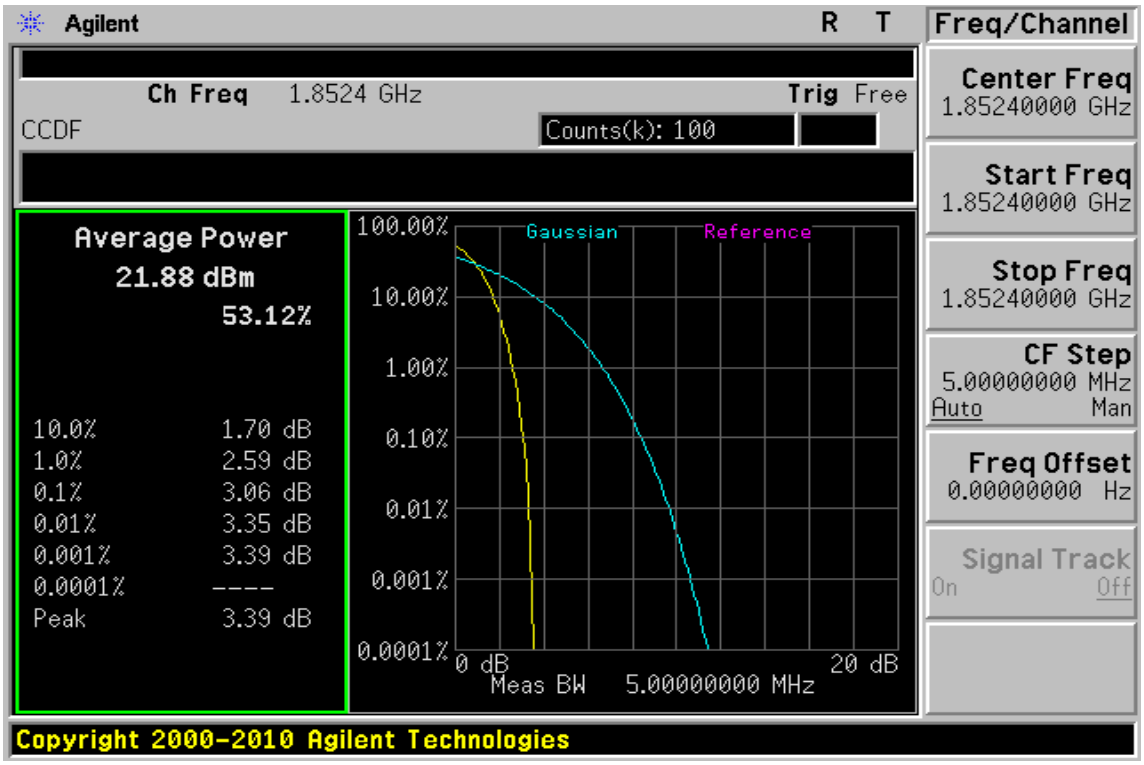
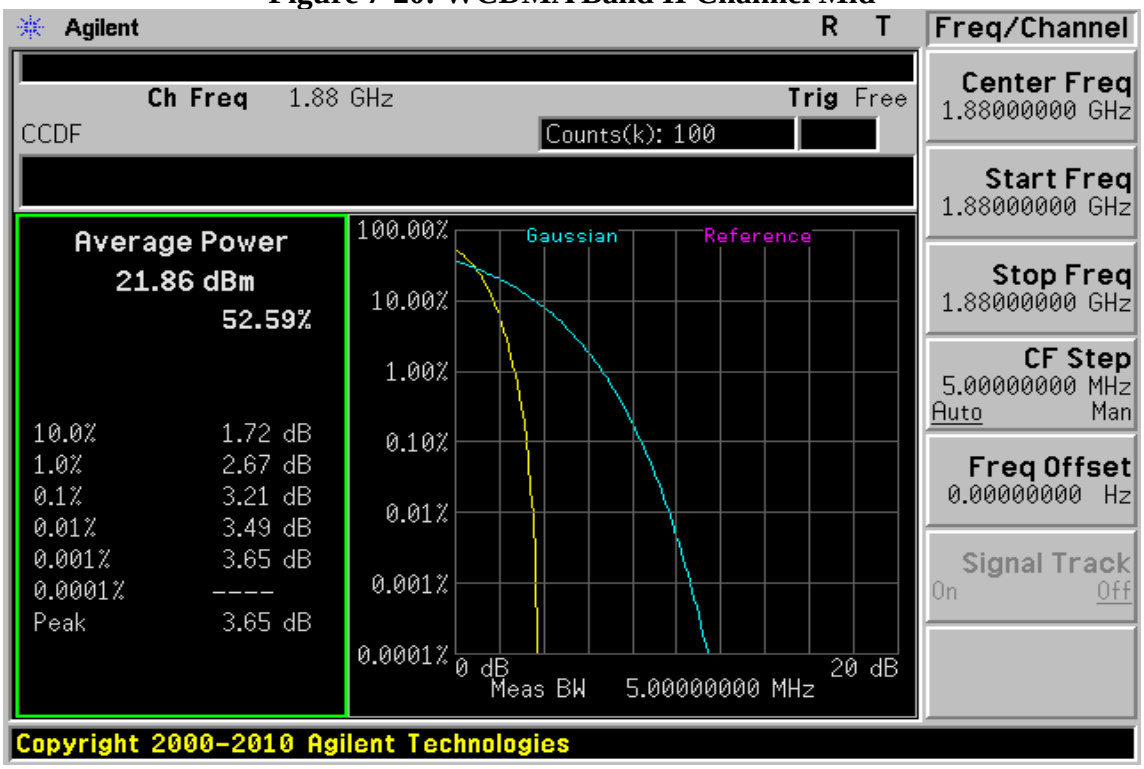


Figure 7-20: WCDMA Band II Channel Mid



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Figure 7-21: WCDMA Band II Channel High

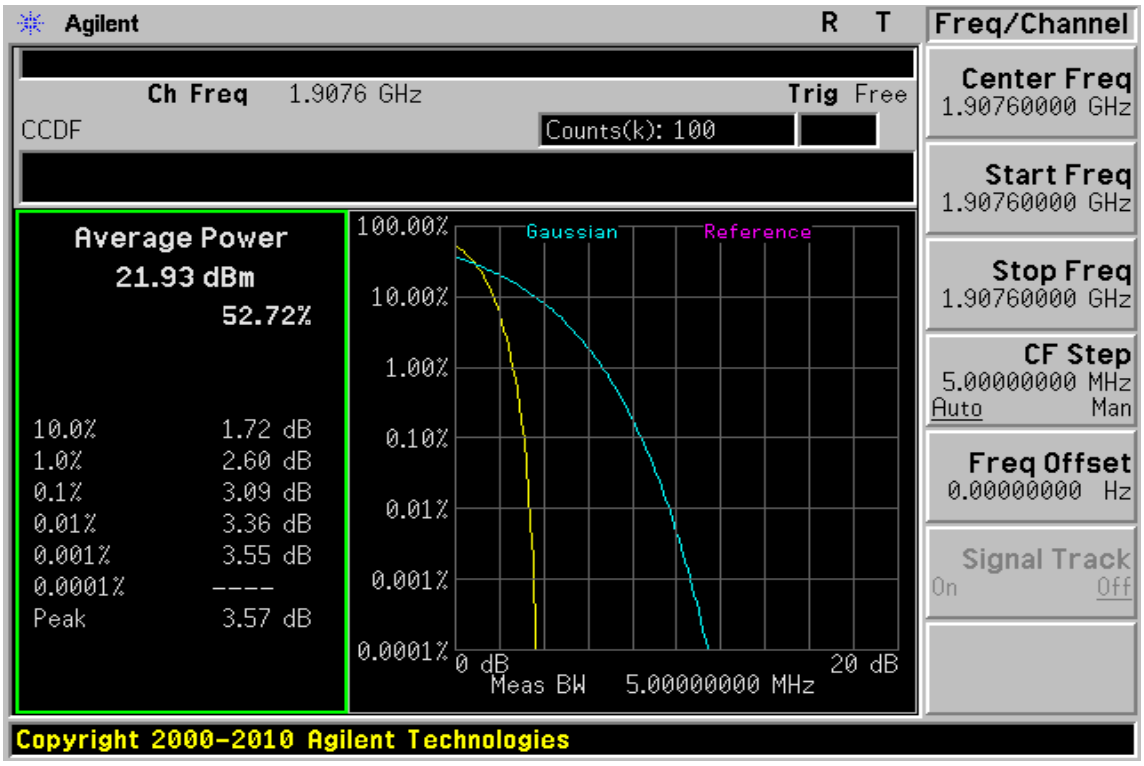
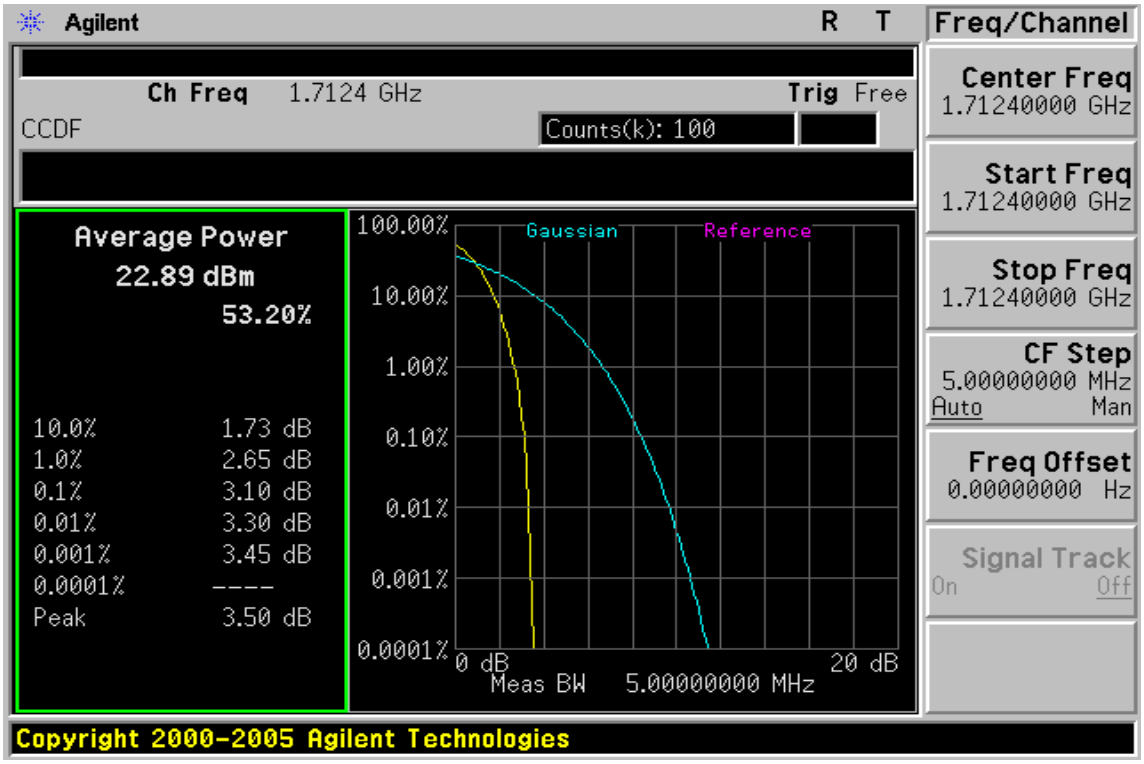


Figure 7-22: WCDMA Band IV Channel Low



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Figure 7-23: WCDMA Band IV Channel Mid

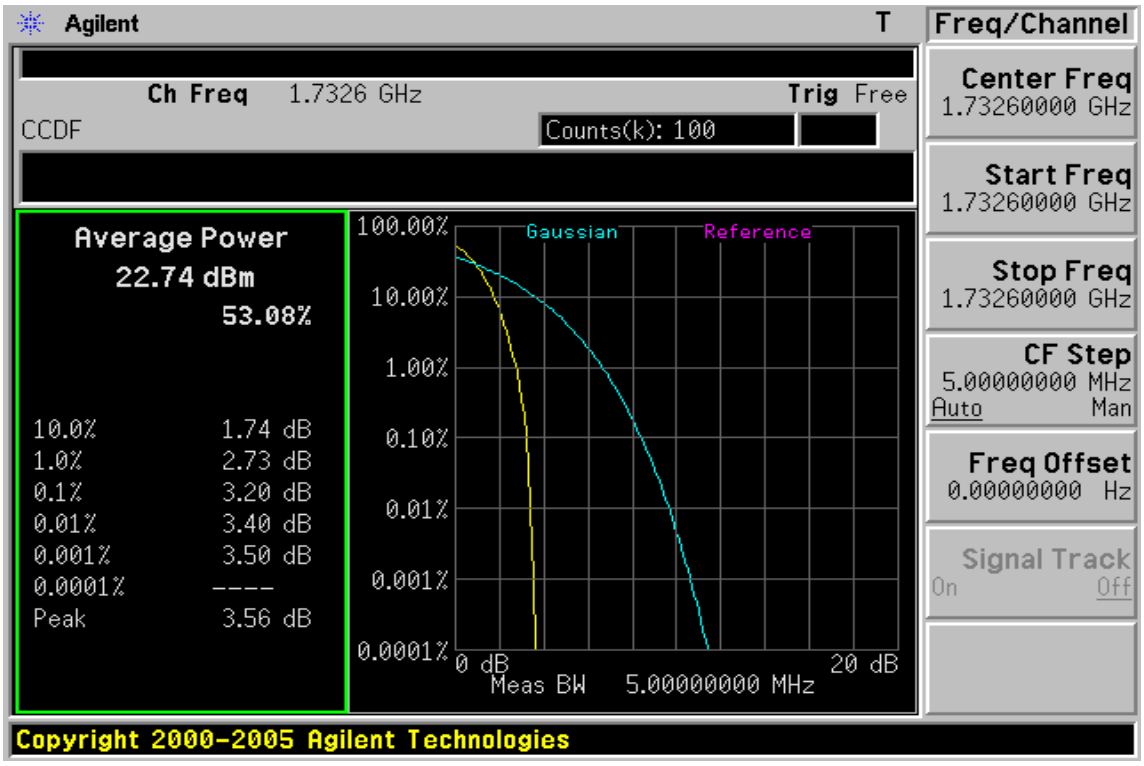
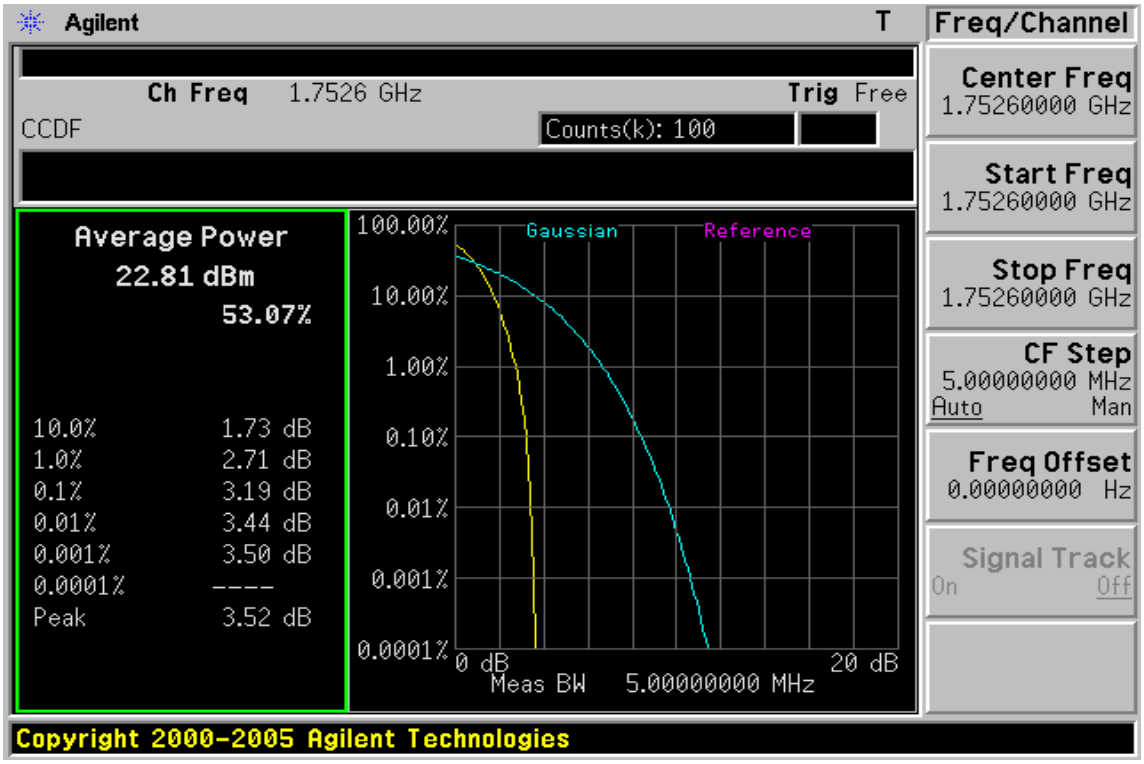


Figure 7-24: WCDMA Band IV Channel High



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Figure 7-25: WCDMA Band V Channel Low

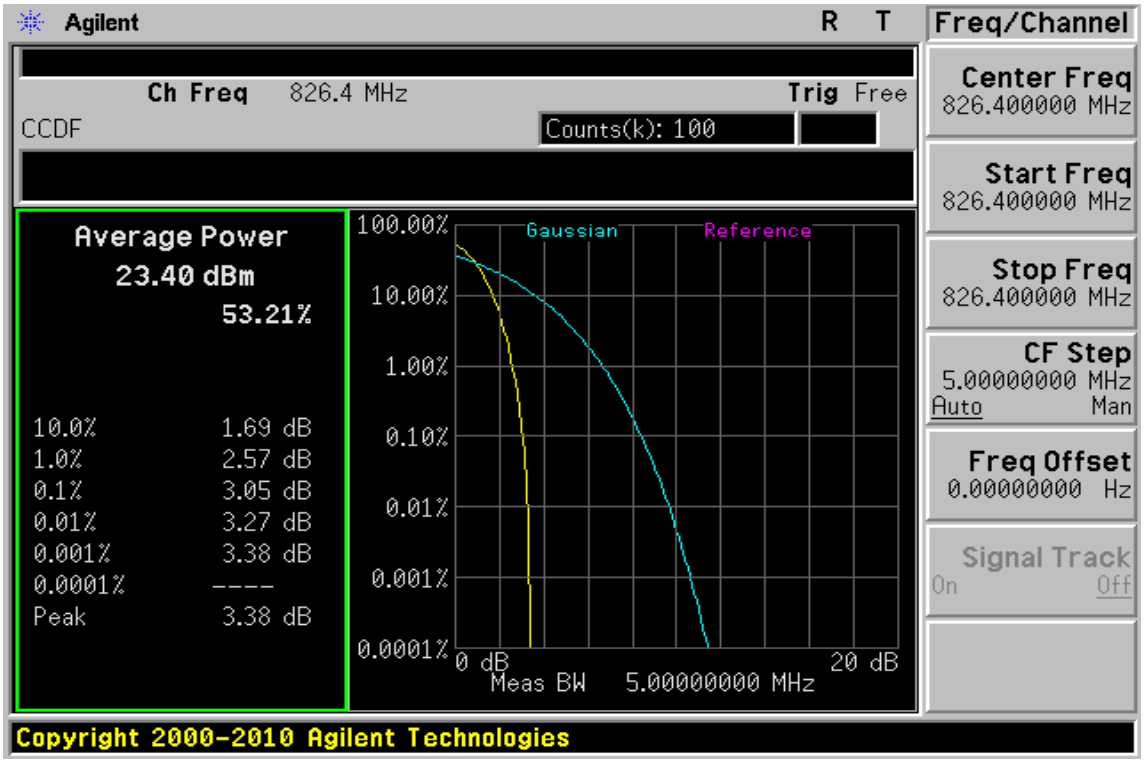
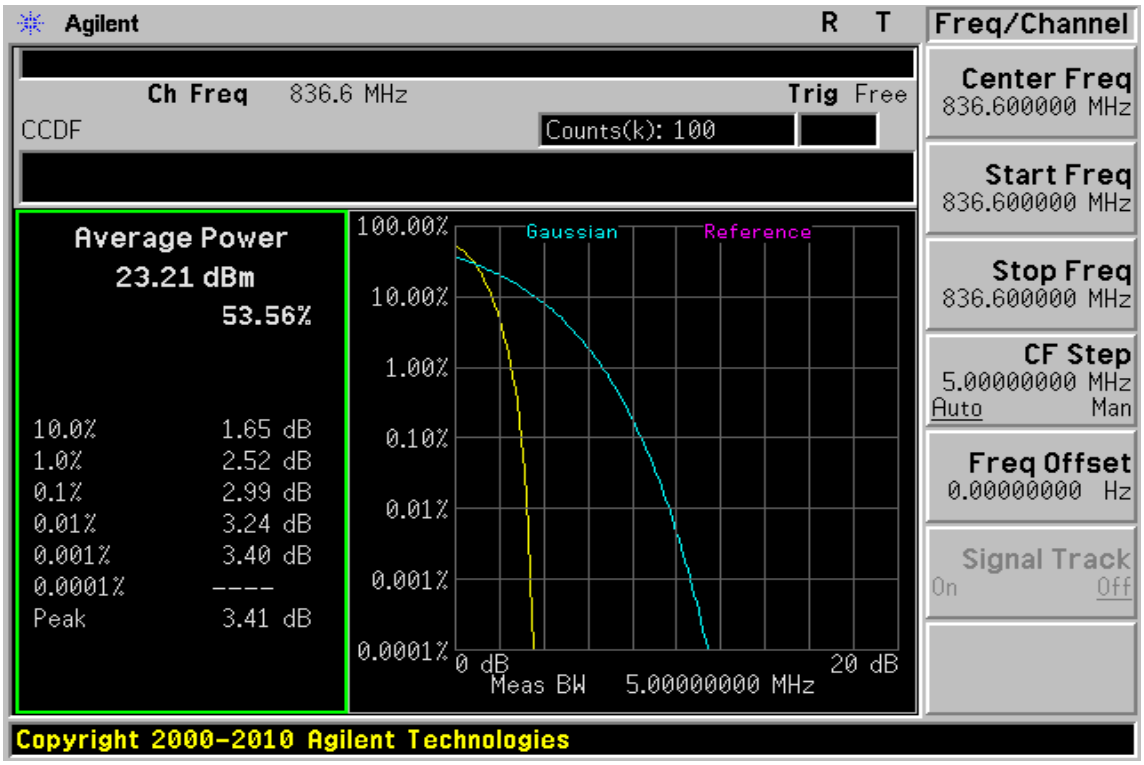


Figure 7-26: WCDMA Band V Channel Mid



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Figure 7-27: WCDMA Band V Channel High

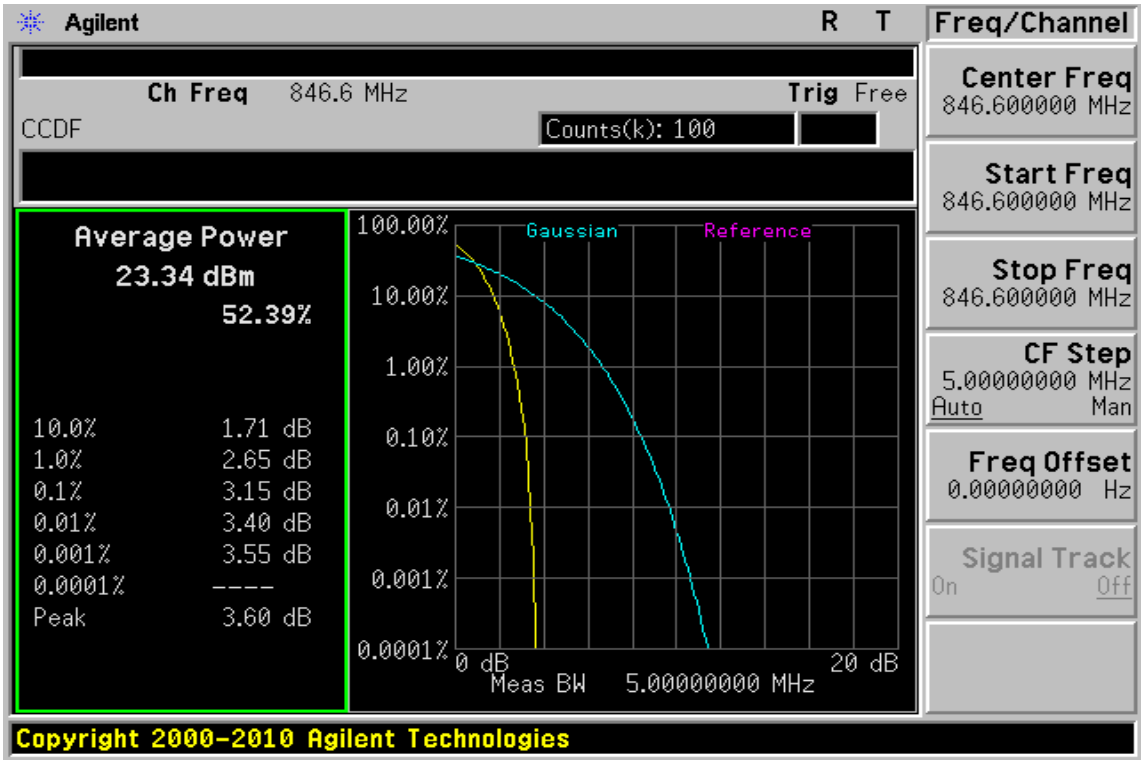
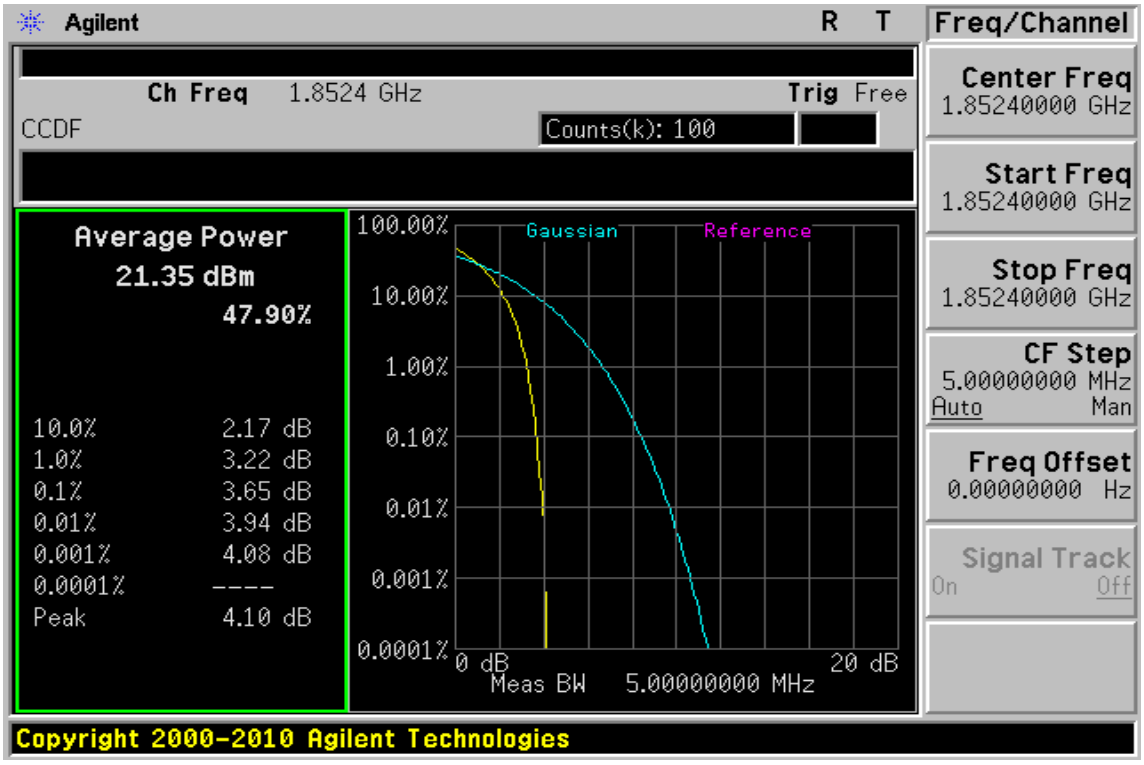


Figure 7-28: HSUPA Band II Channel Low



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Figure 7-29: HSUPA Band II Channel Mid

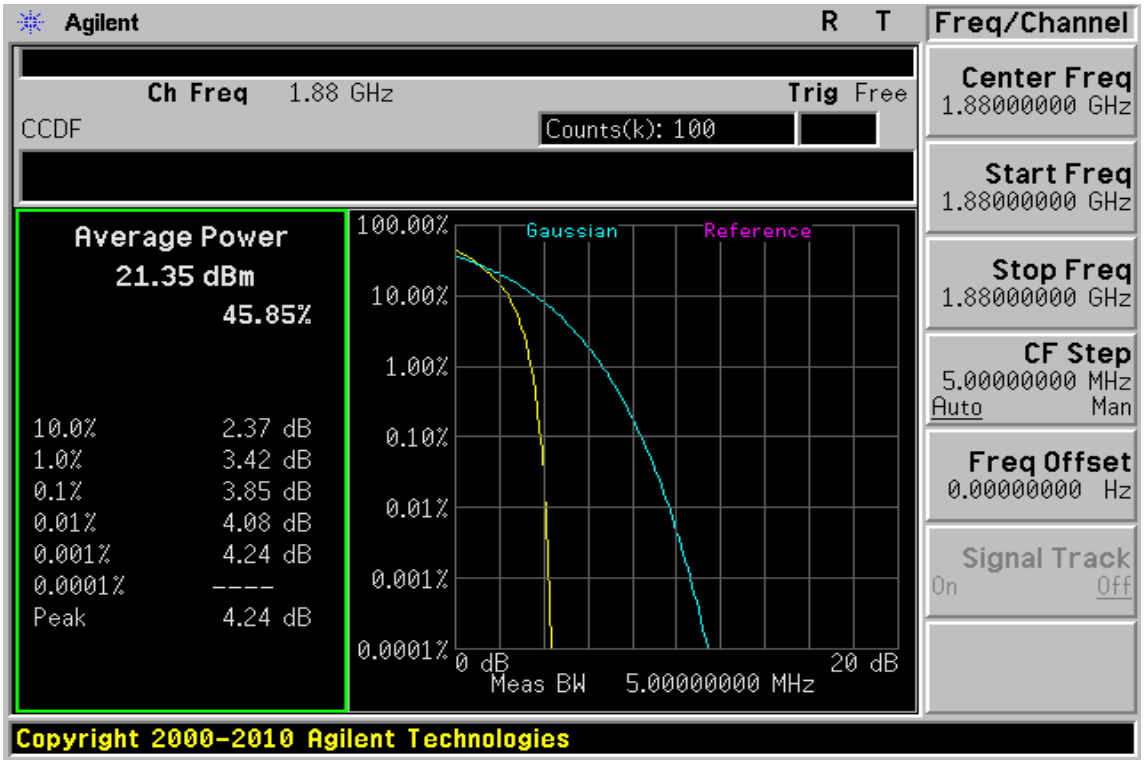
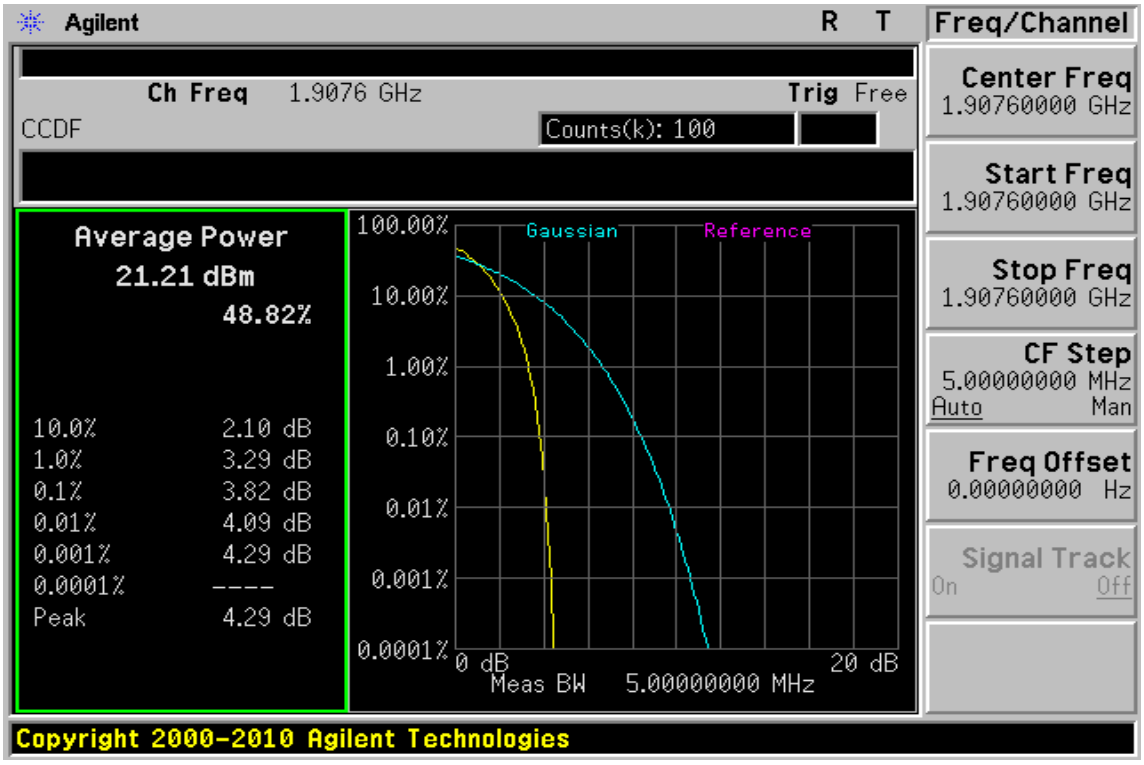


Figure 7-30: HSUPA Band II Channel High



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Figure 7-31: HSUPA Band IV Channel Low

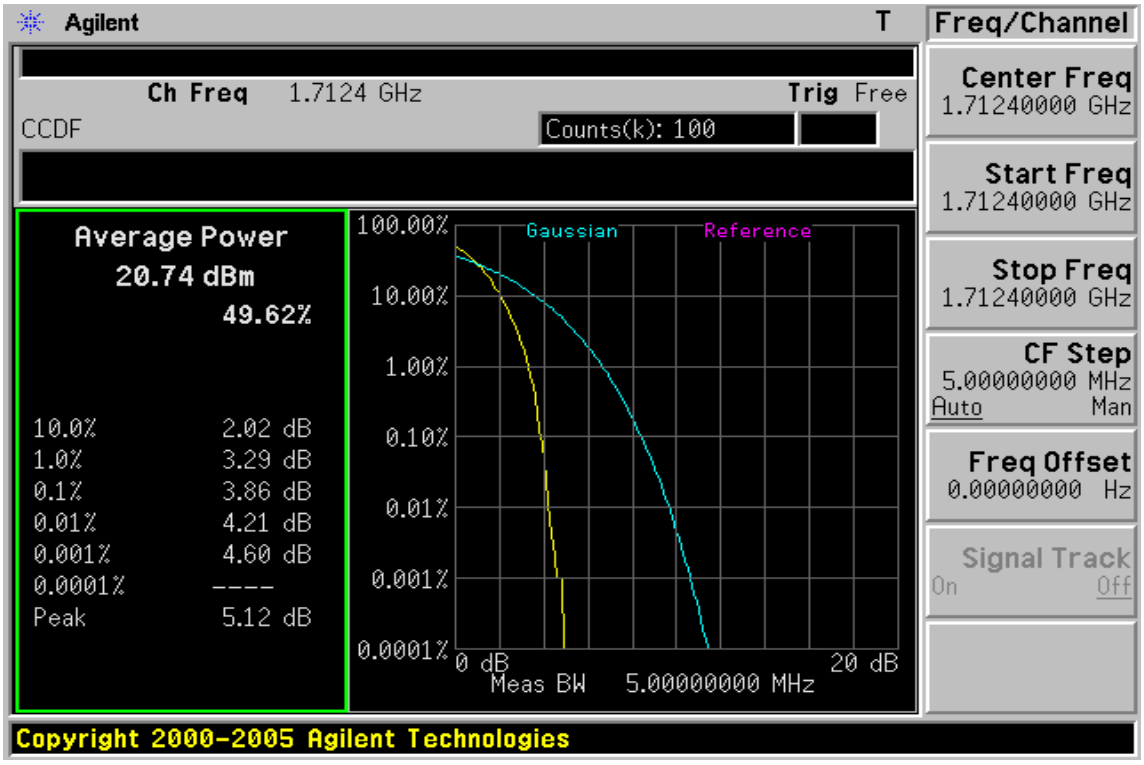
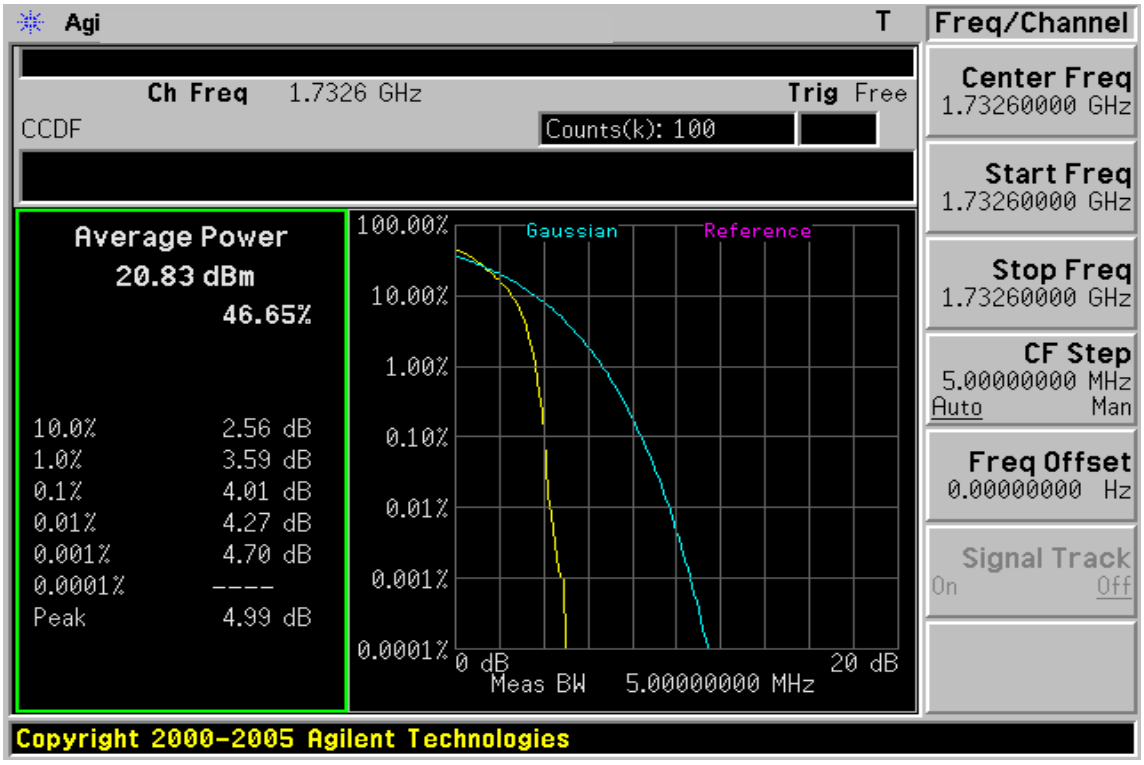


Figure 7-32: HSUPA Band IV Channel Mid



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Figure 7-33: HSUPA Band IV Channel High

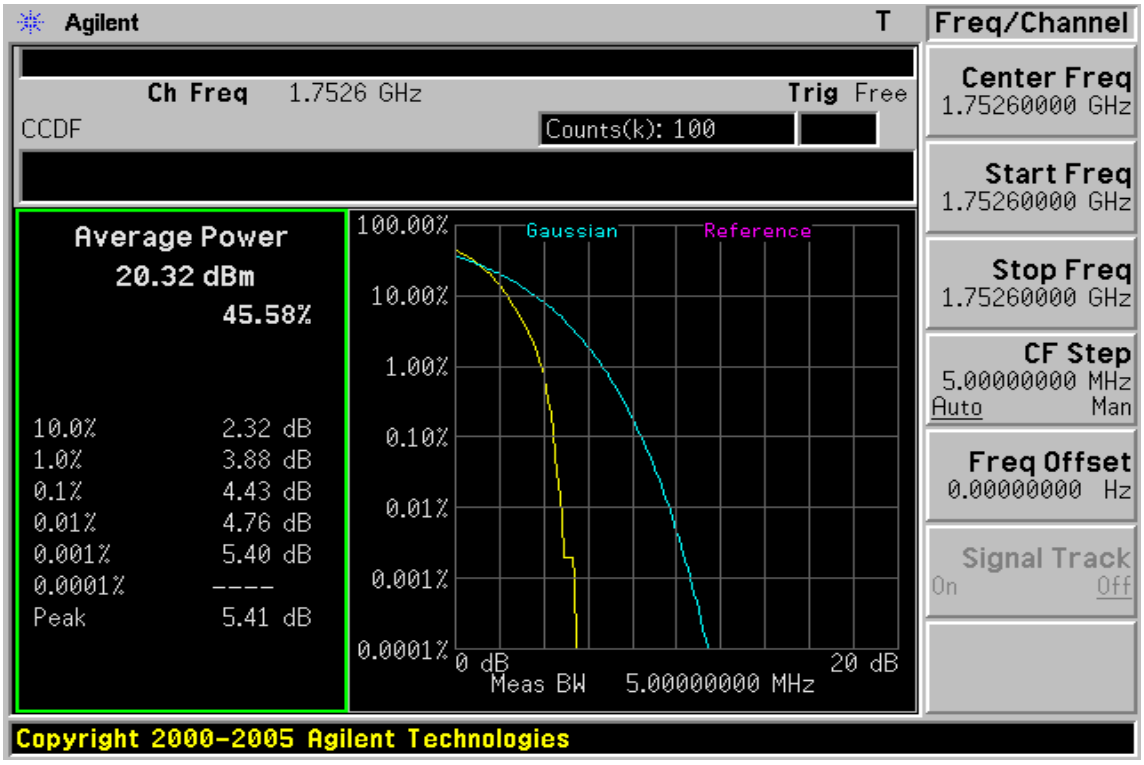
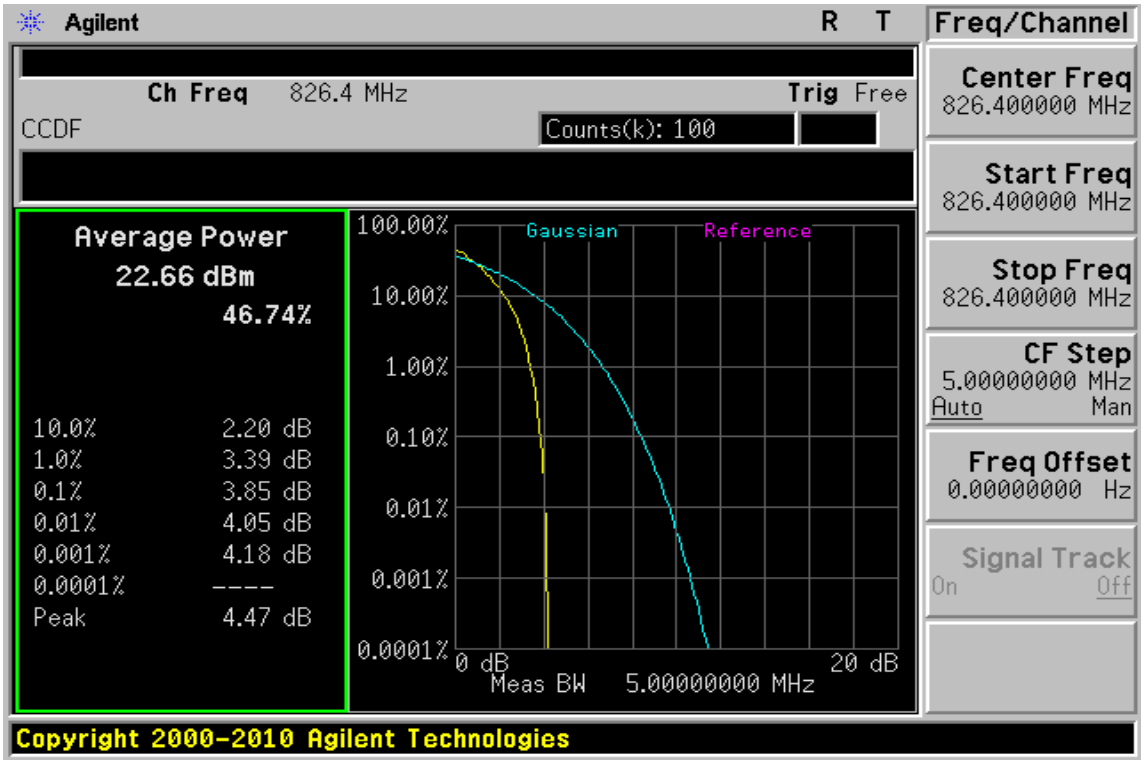


Figure 7-34: HSUPA Band V Channel Low



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Figure 7-35: HSUPA Band V Channel Mid

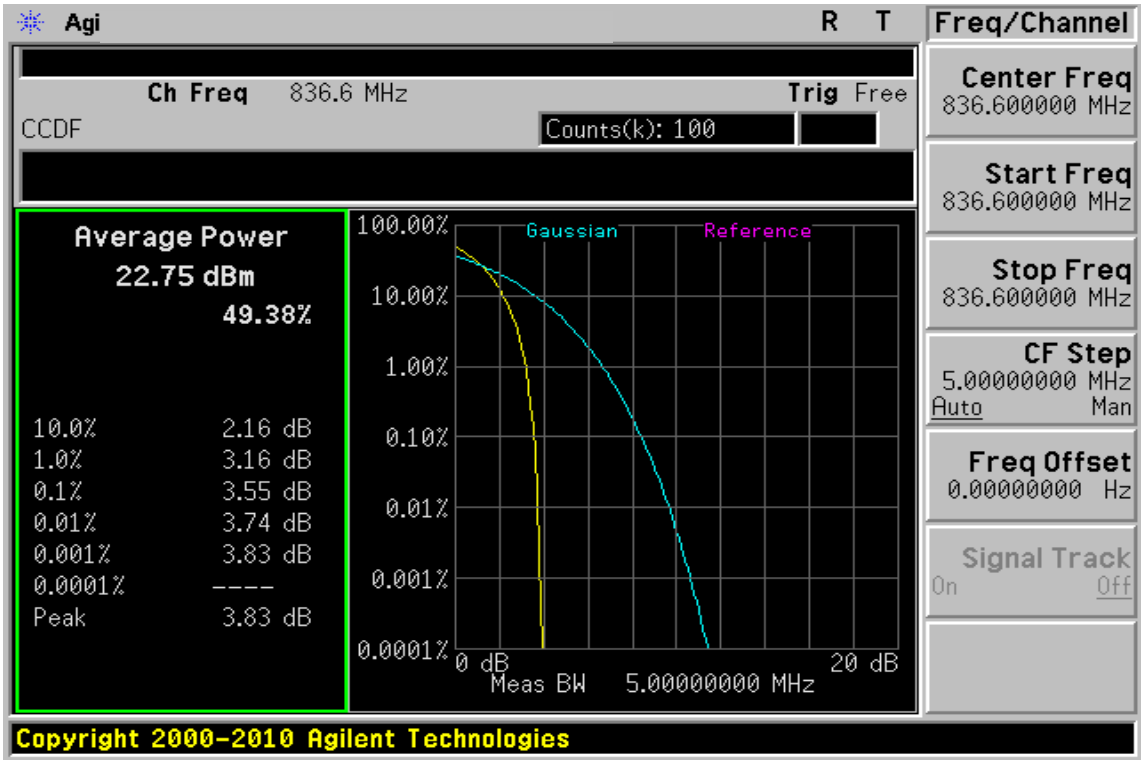
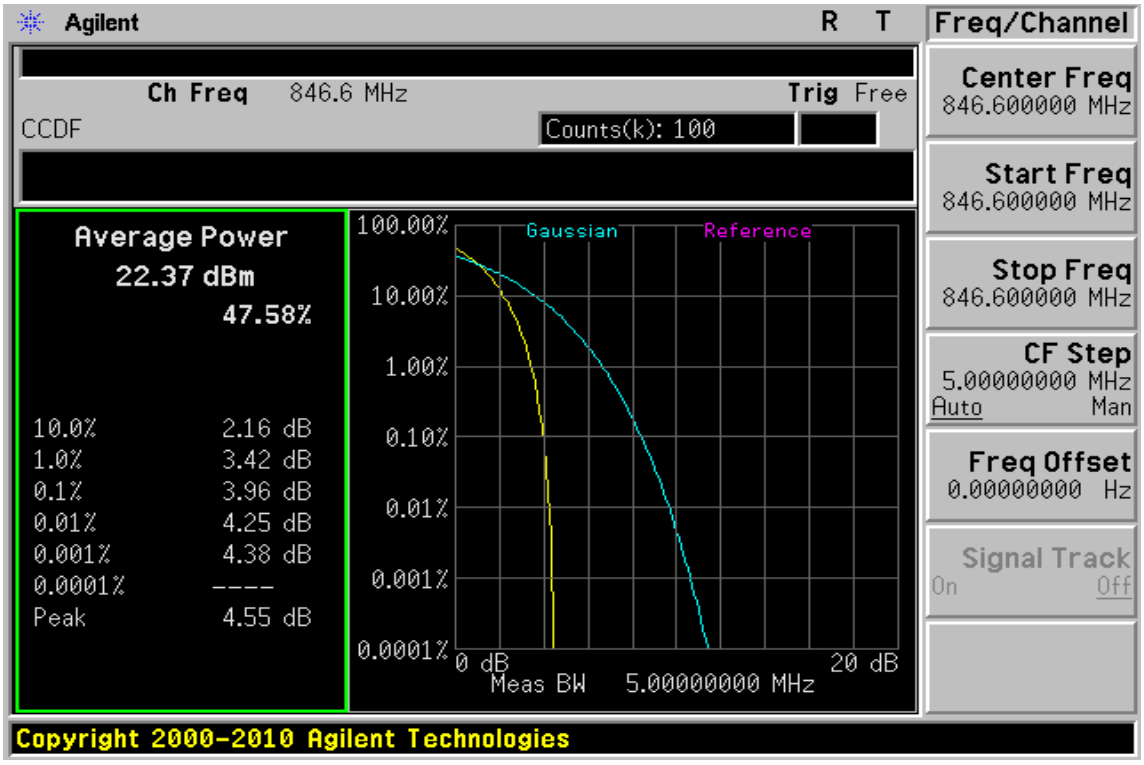


Figure 7-36: HSUPA Band V Channel High



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Figure 7-37: HSDPA Band II Channel Low

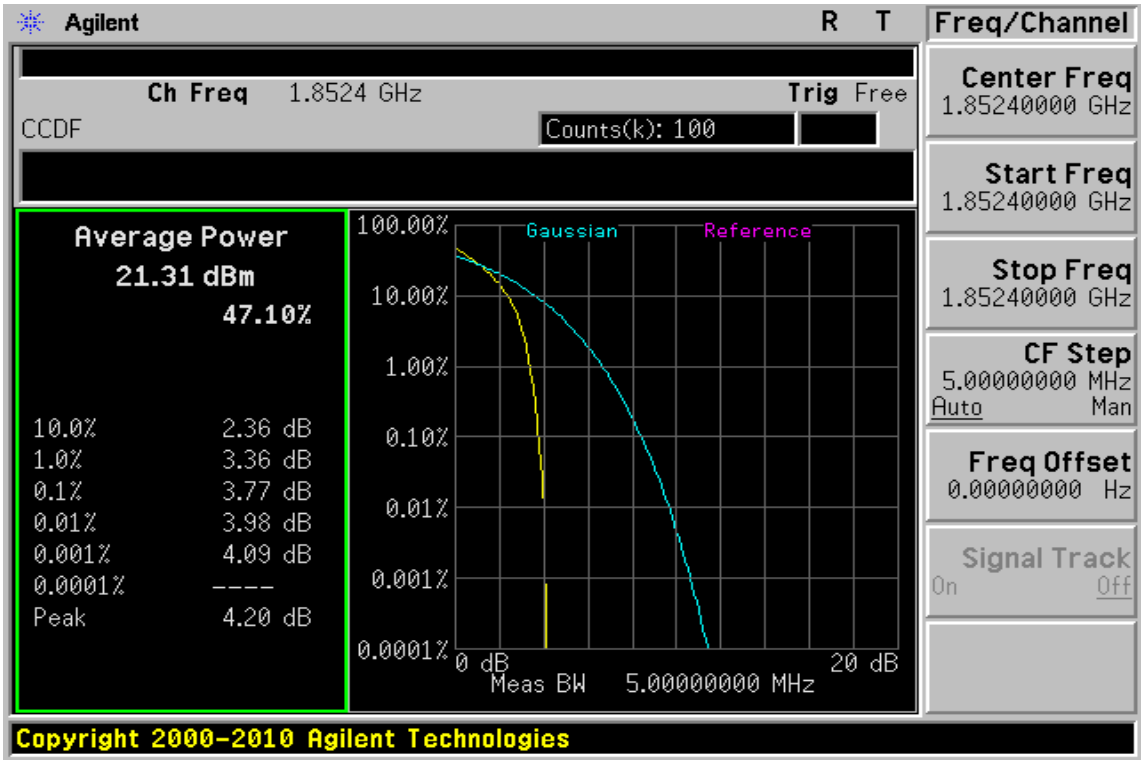
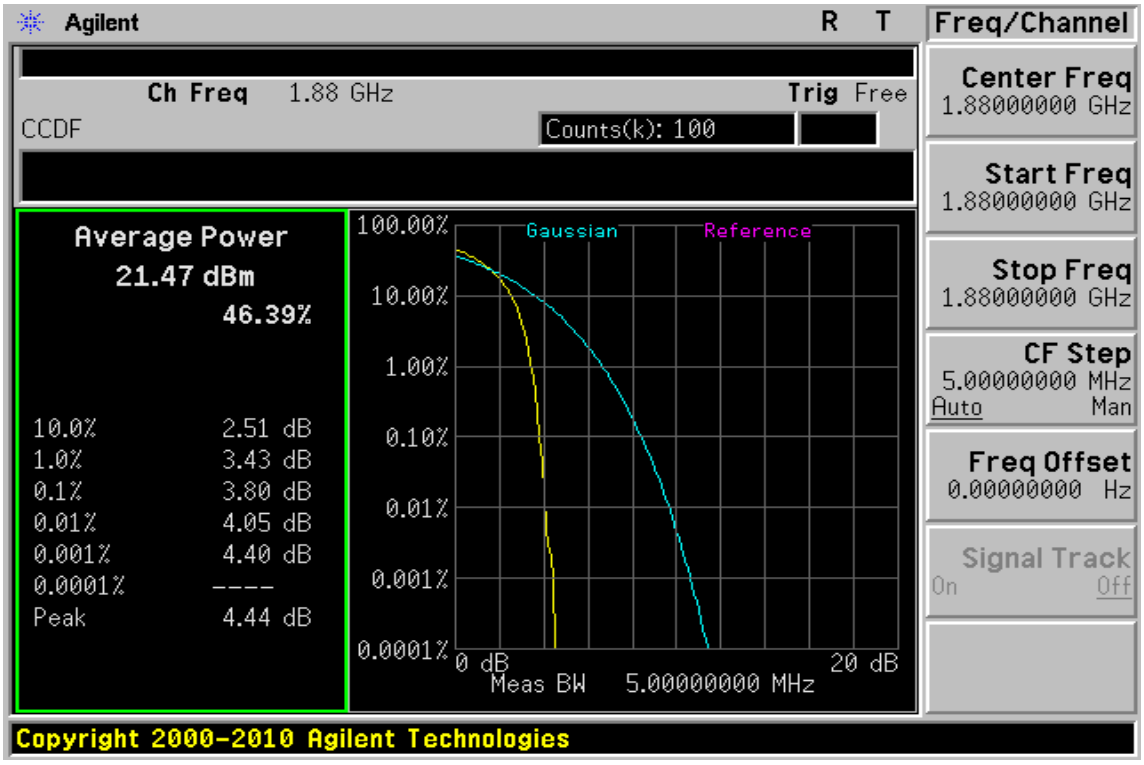


Figure 7-38: HSDPA Band II Channel Mid



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Figure 7-39: HSDPA Band II Channel High

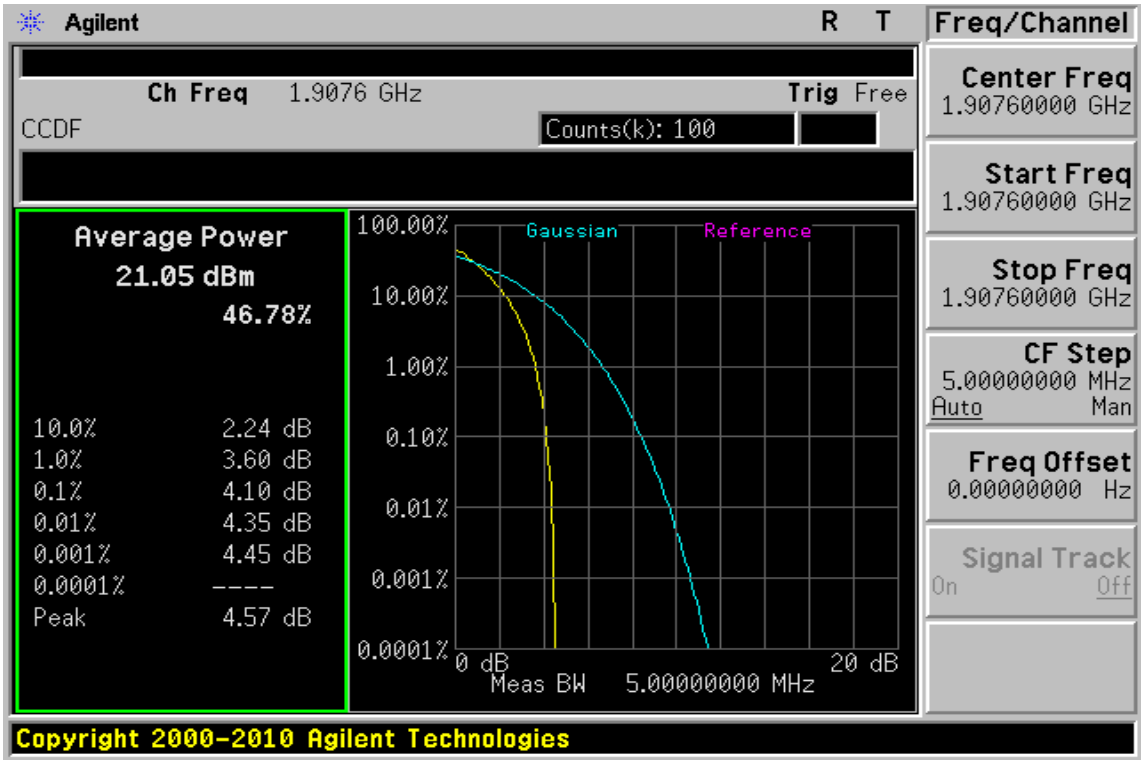
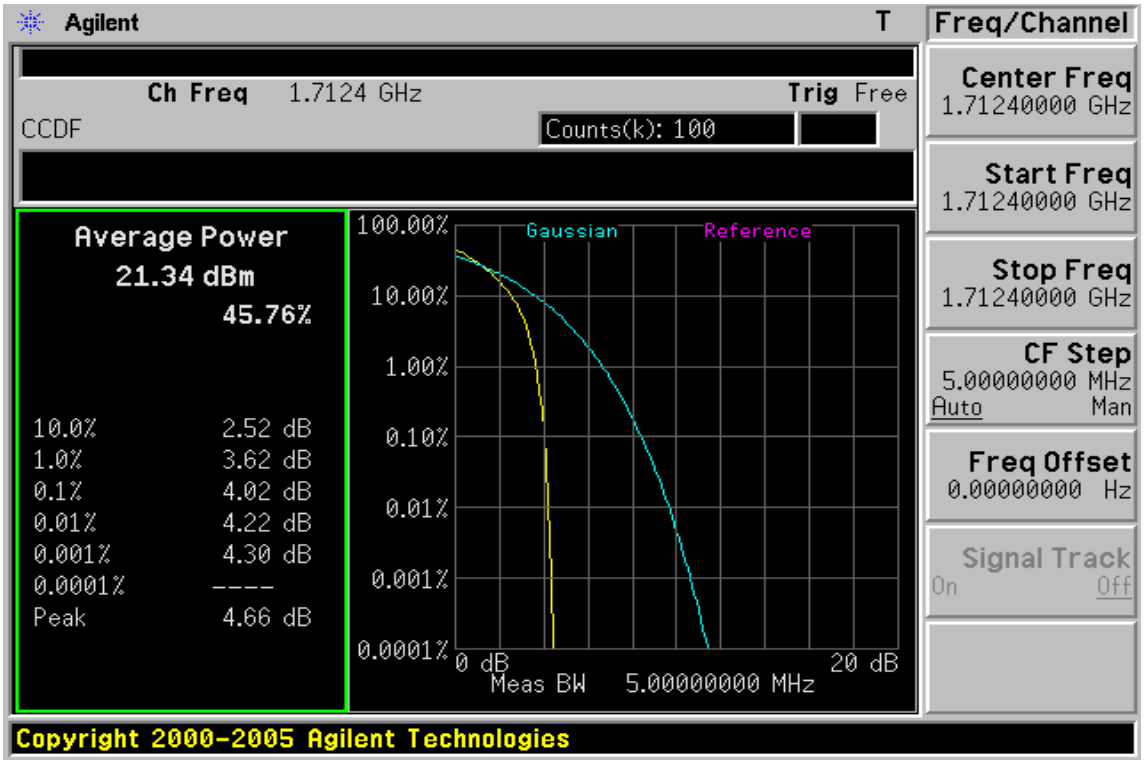


Figure 7-40: HSDPA Band IV Channel Low



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Figure 7-41: HSDPA Band IV Channel Mid

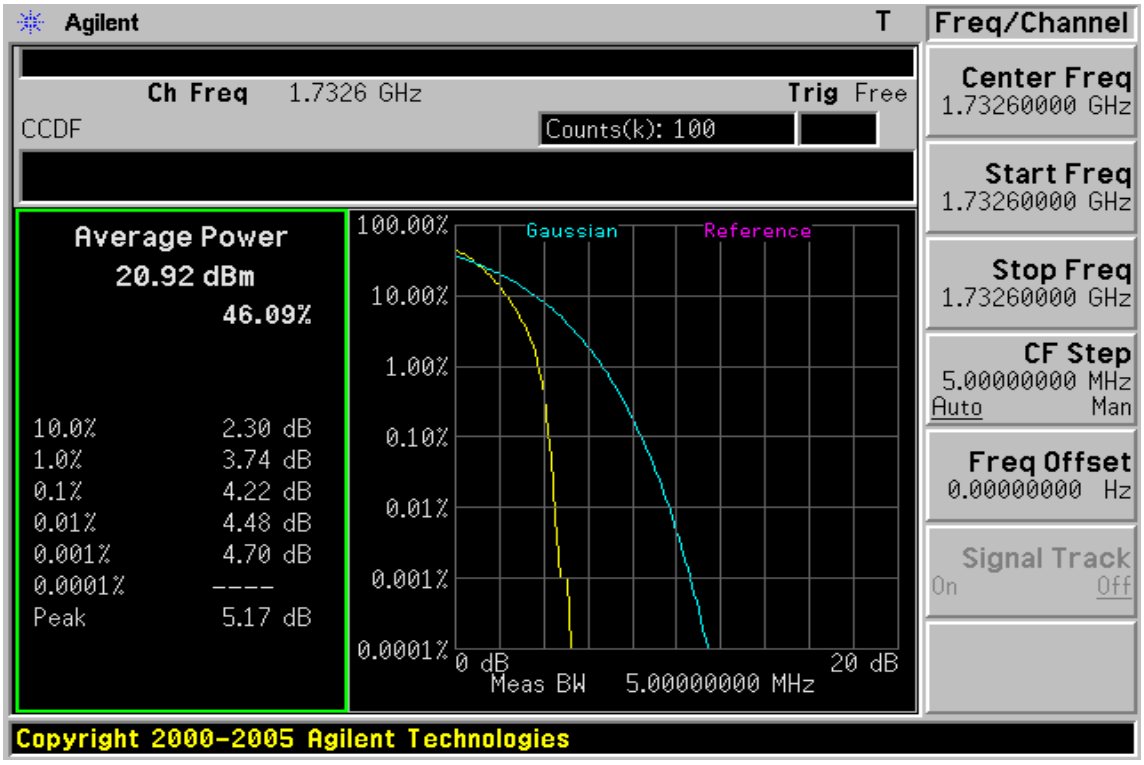
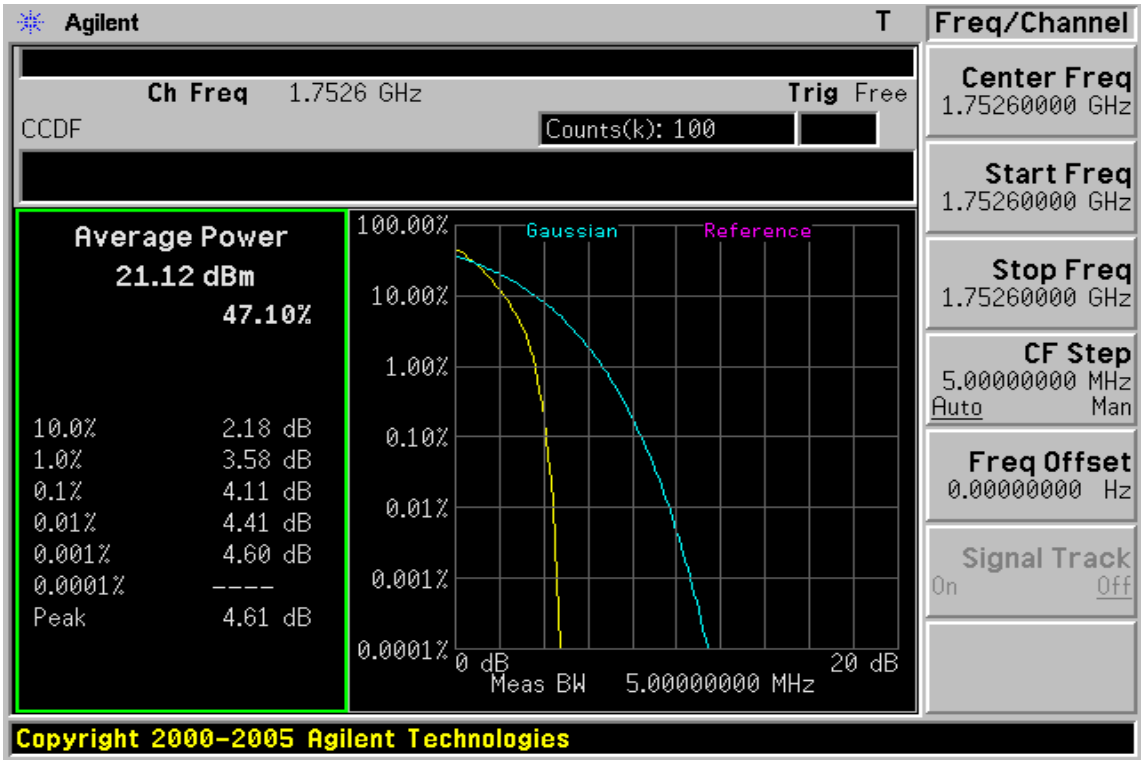


Figure 7-42: HSDPA Band IV Channel High



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Figure 7-43: HSDPA Band V Channel Low

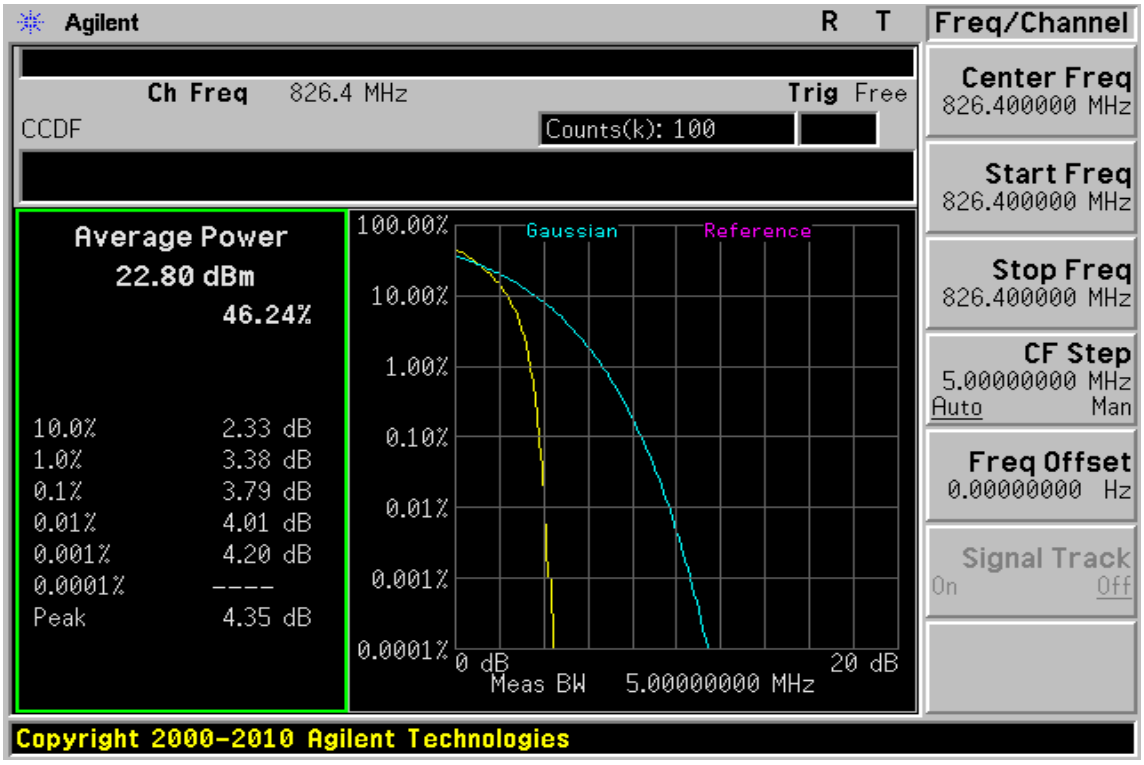
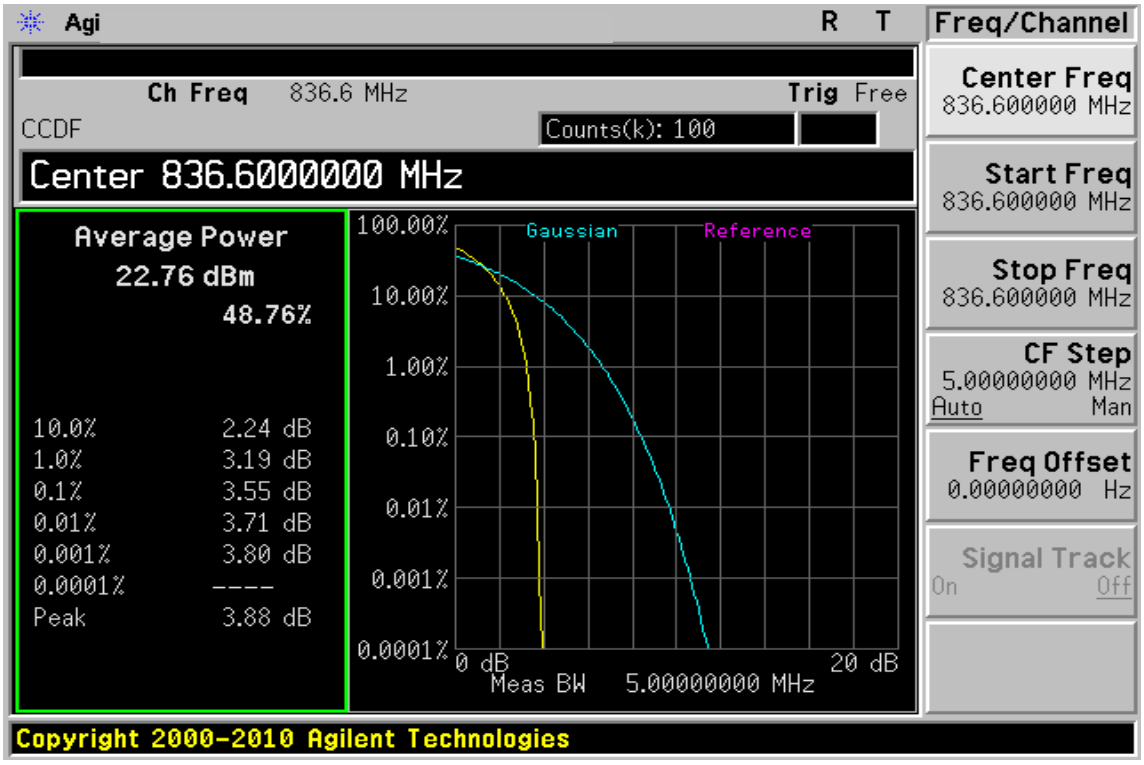


Figure 7-44: HSDPA Band V Channel Mid



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Figure 7-45: HSDPA Band V Channel High

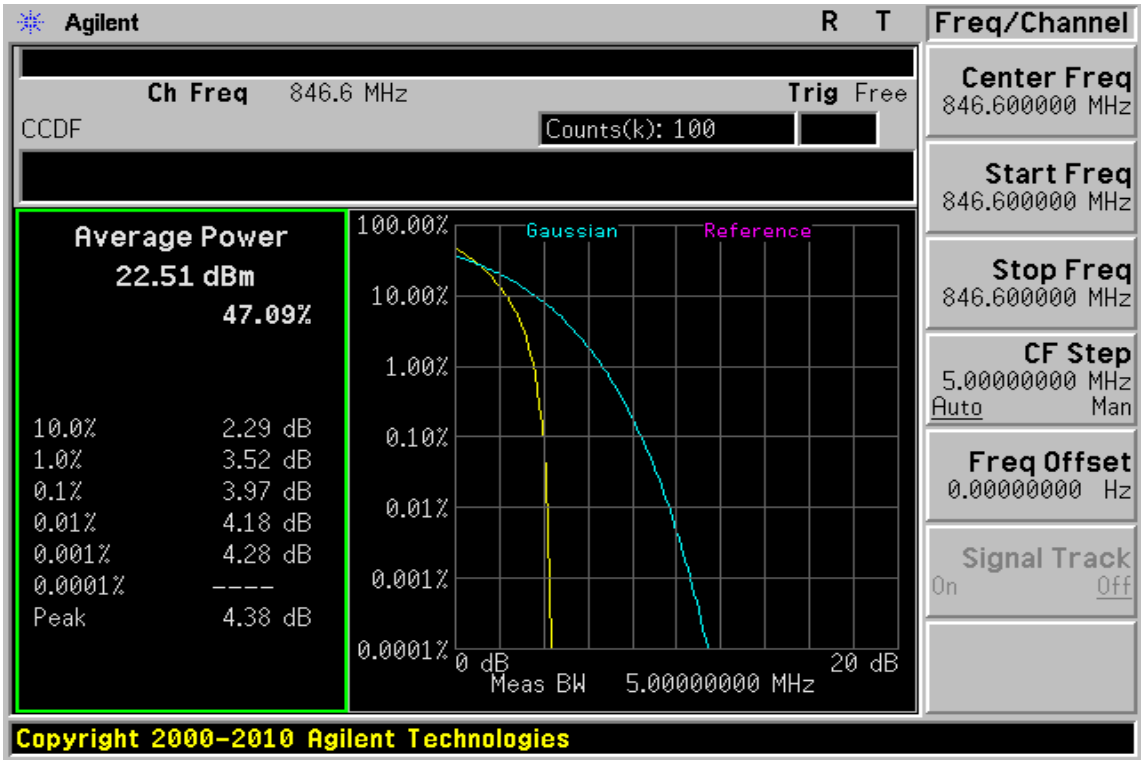
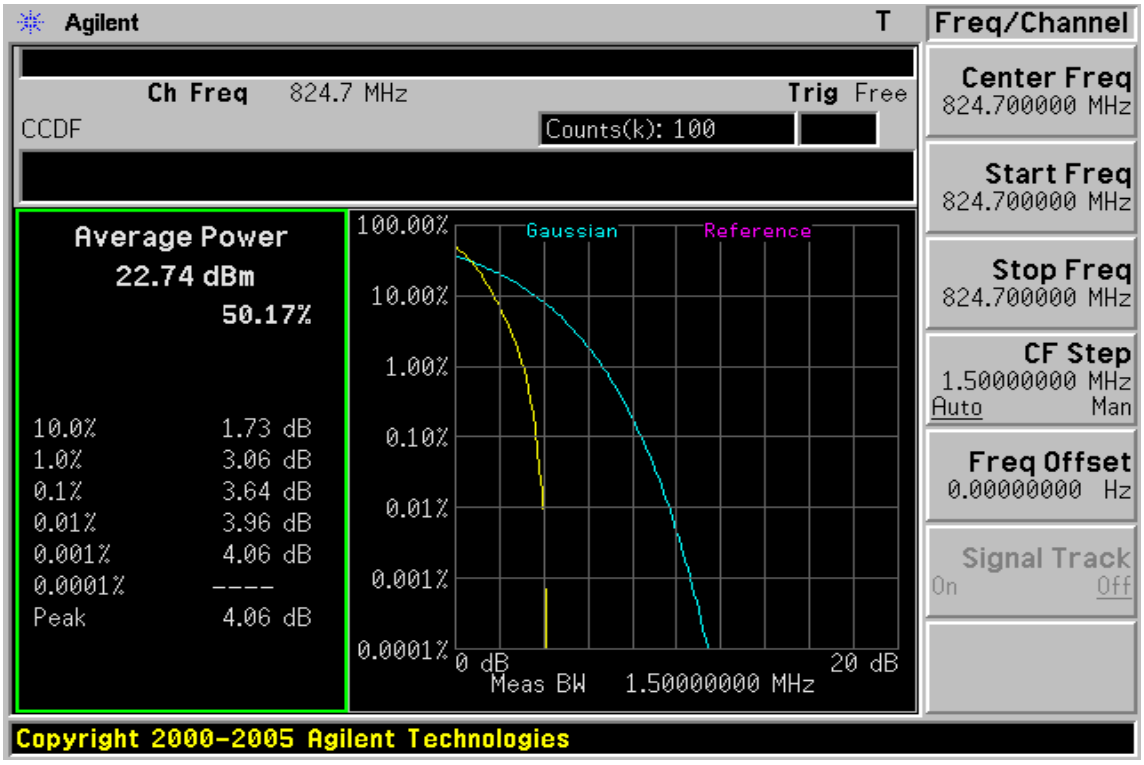


Figure 7-46: CDMA 2000 Cellular Channel Low



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Figure 7-47: CDMA 2000 Cellular Channel Mid

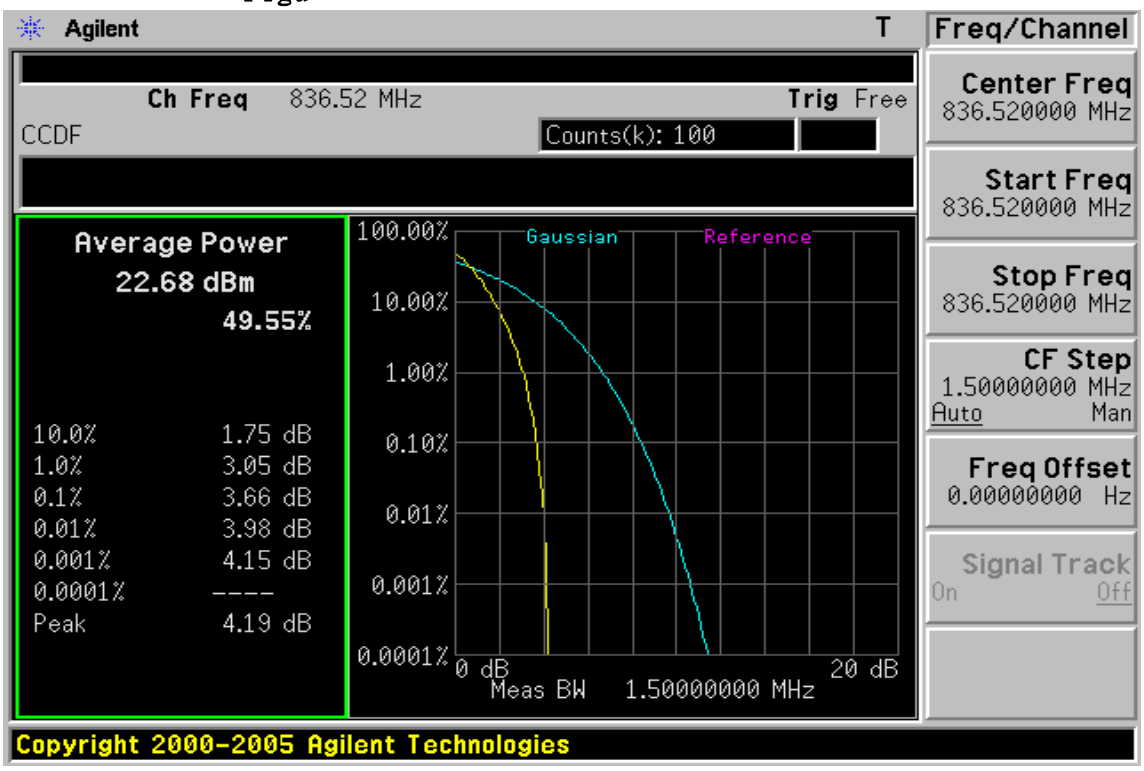
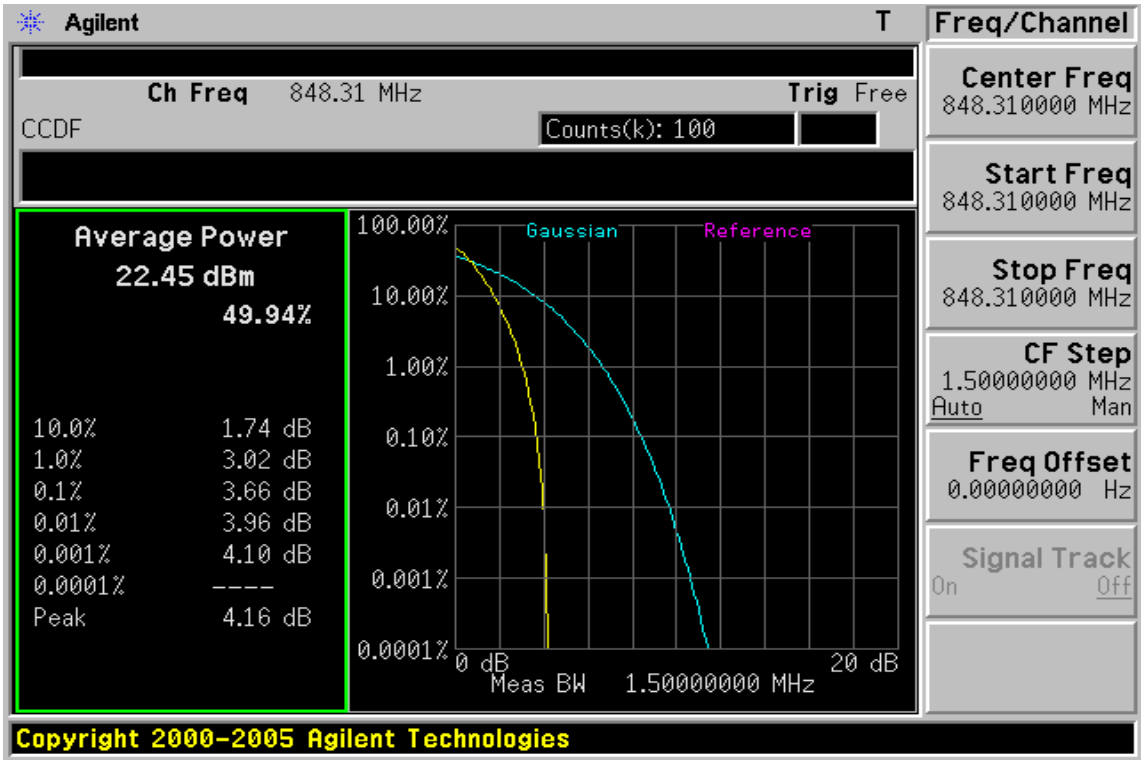


Figure 7-48: CDMA 2000 Cellular Channel High



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Figure 7-49: CDMA 2000 PCS Channel Low

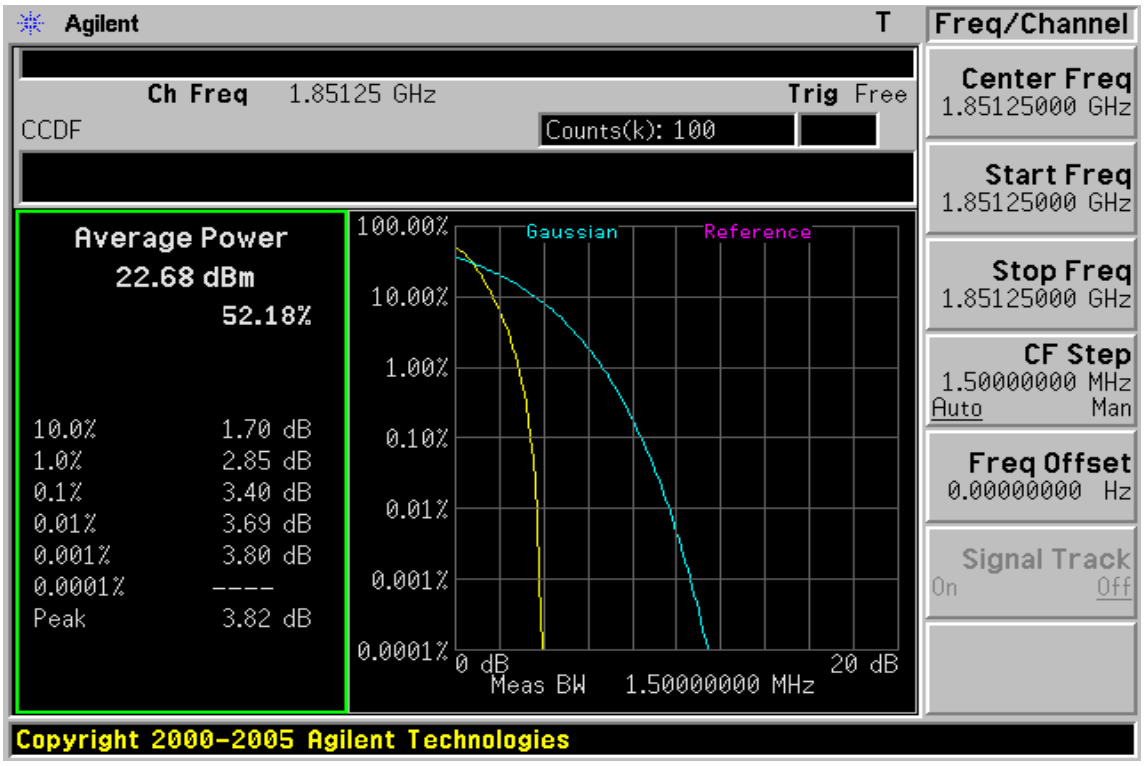
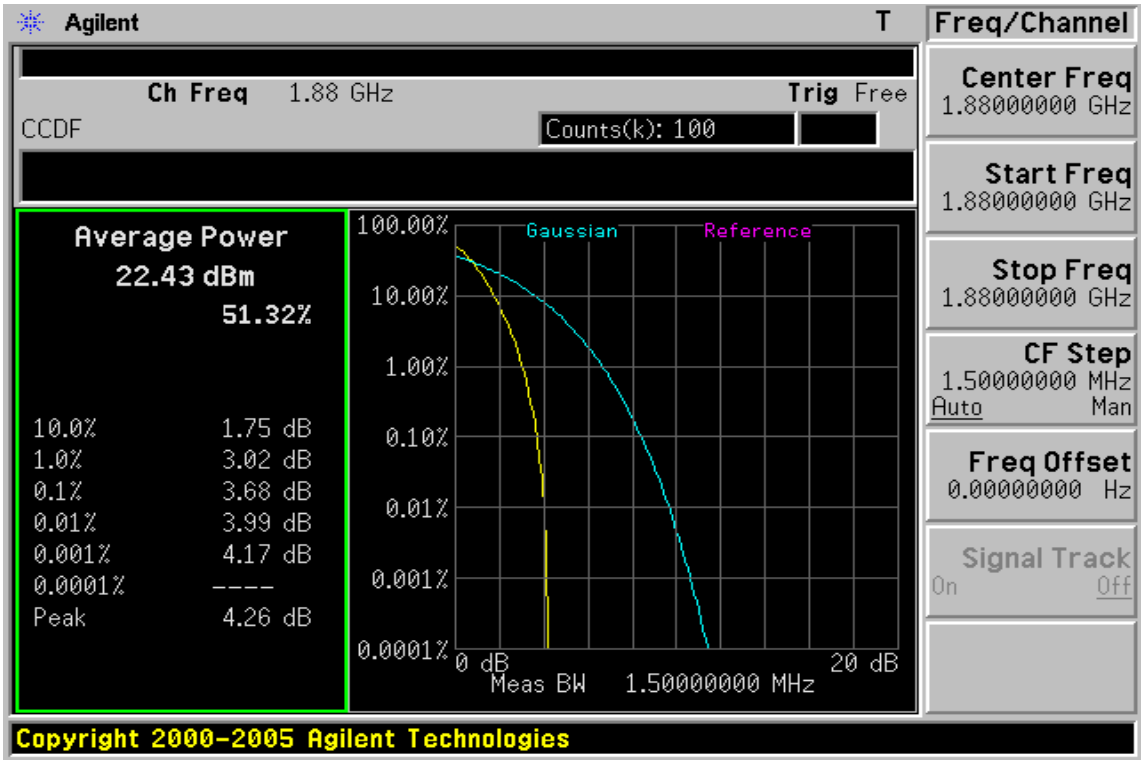


Figure 7-50: CDMA 2000 PCS Channel Mid



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Figure 7-51: CDMA 2000 PCS Channel High

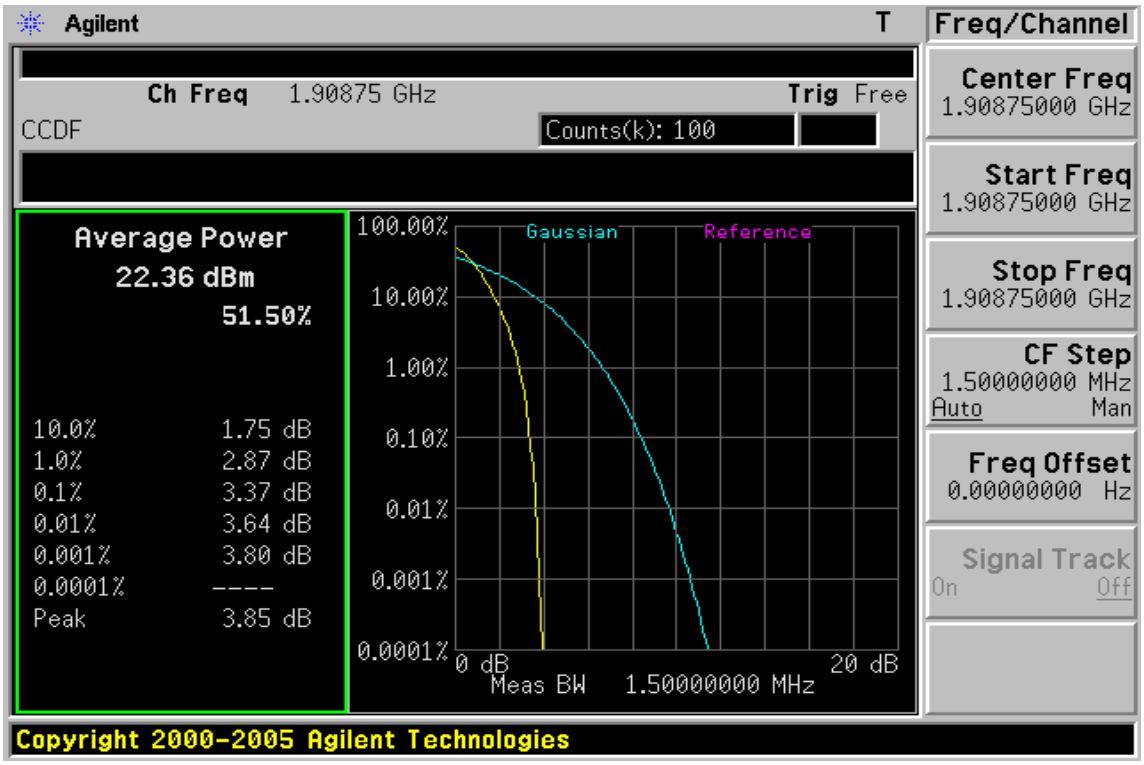
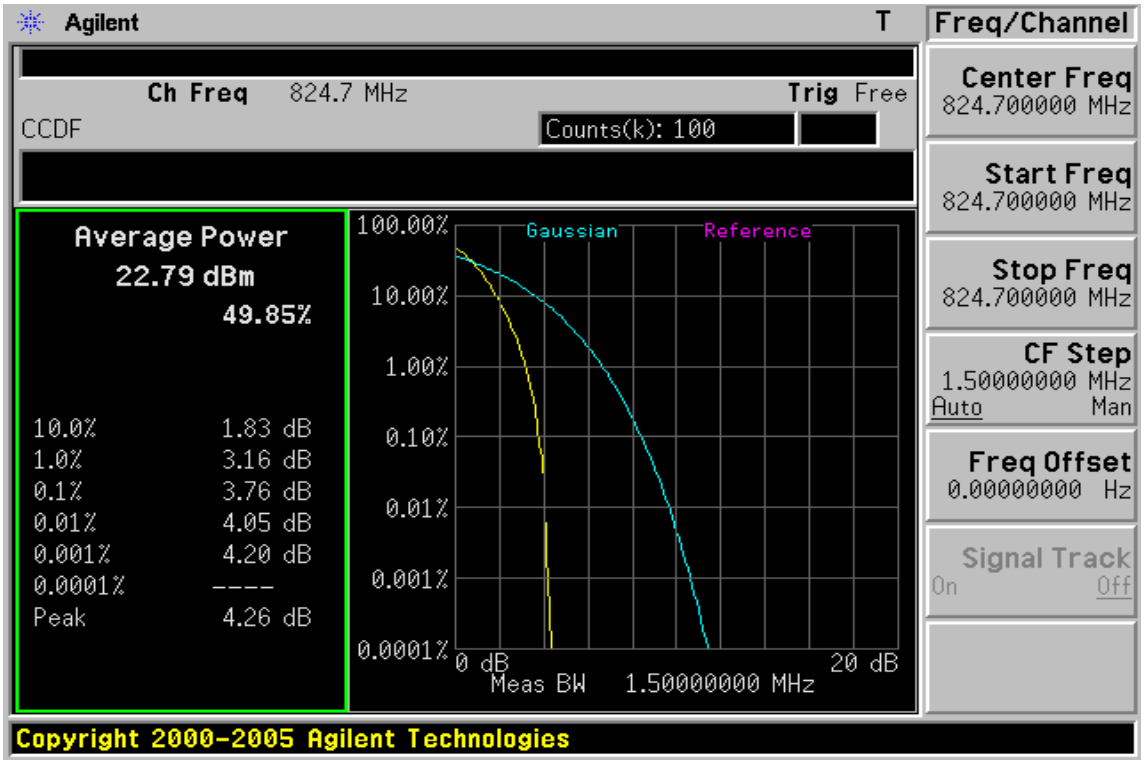


Figure 7-52: CDMA 2000 EVDO Cellular Channel Low



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Figure 7-53: CDMA 2000 EVDO Cellular Channel Mid

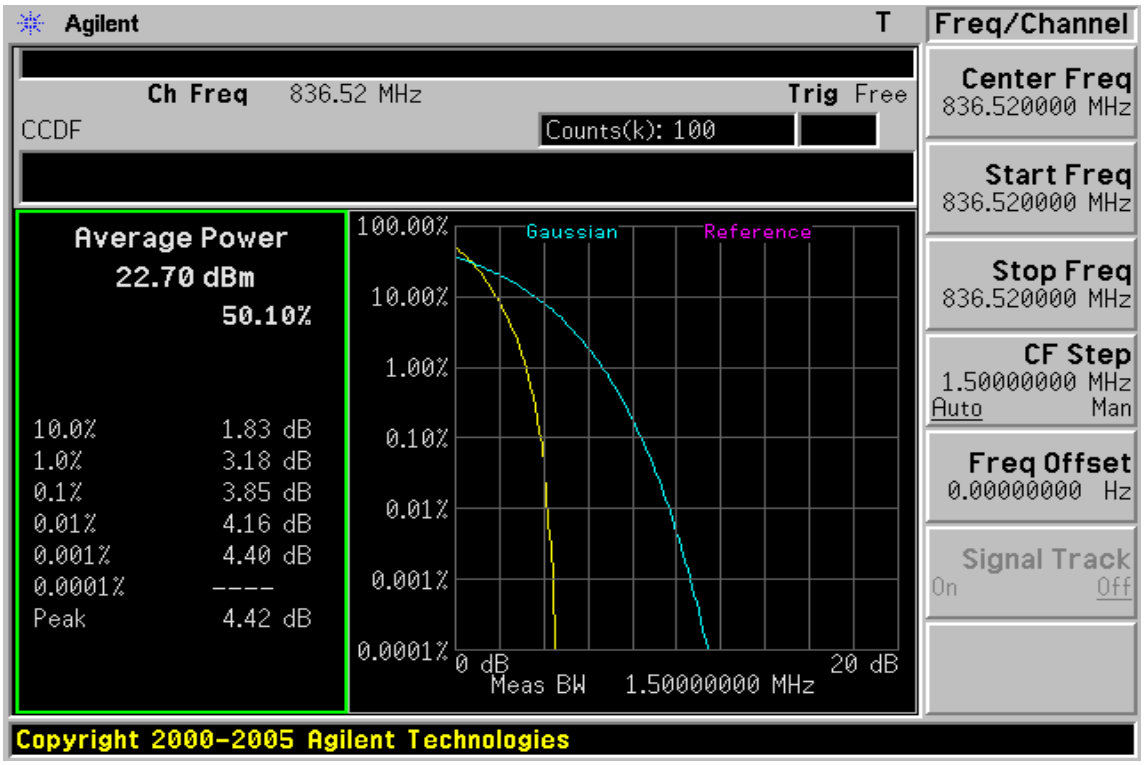
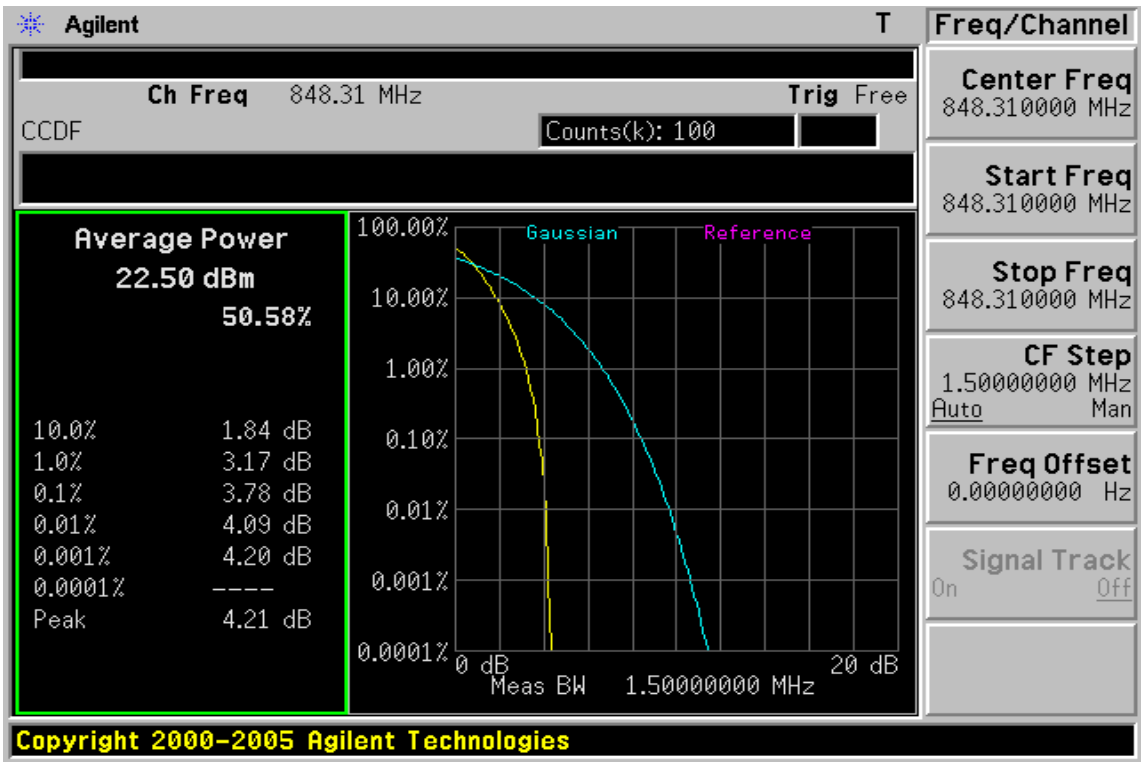


Figure 7-54: CDMA 2000 EVDO Cellular Channel High



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Figure 7-55: CDMA 2000 EVDO PCS Channel Low

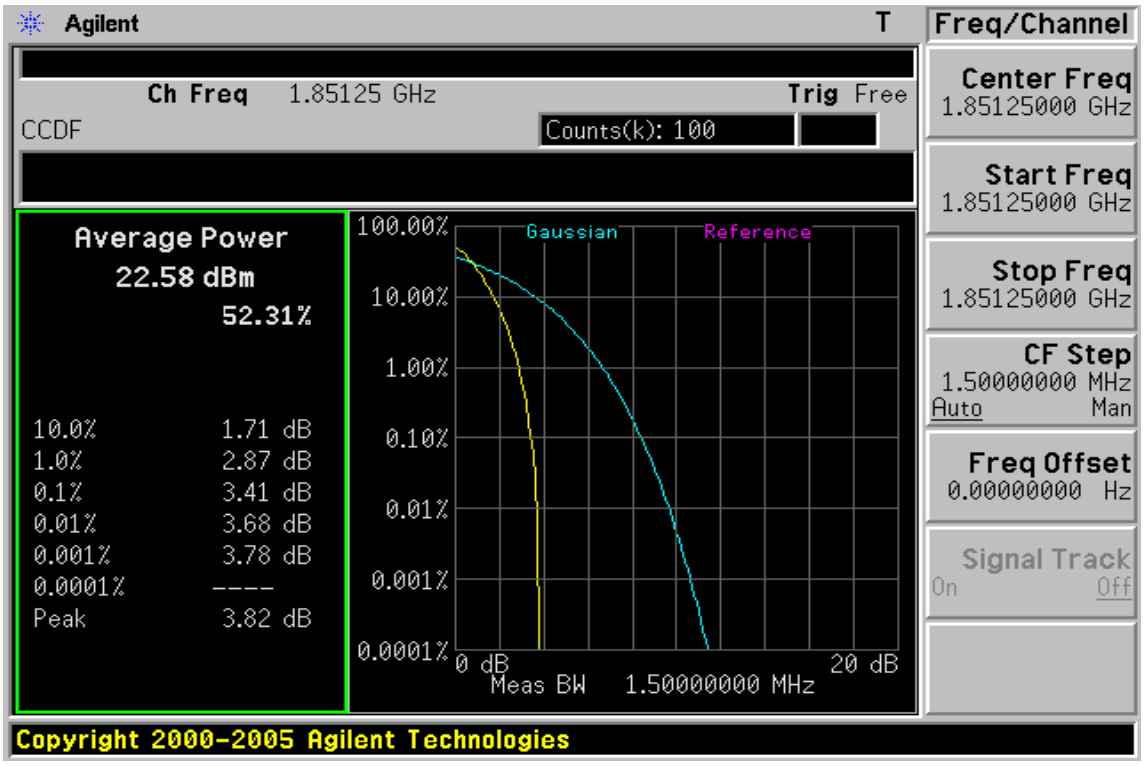
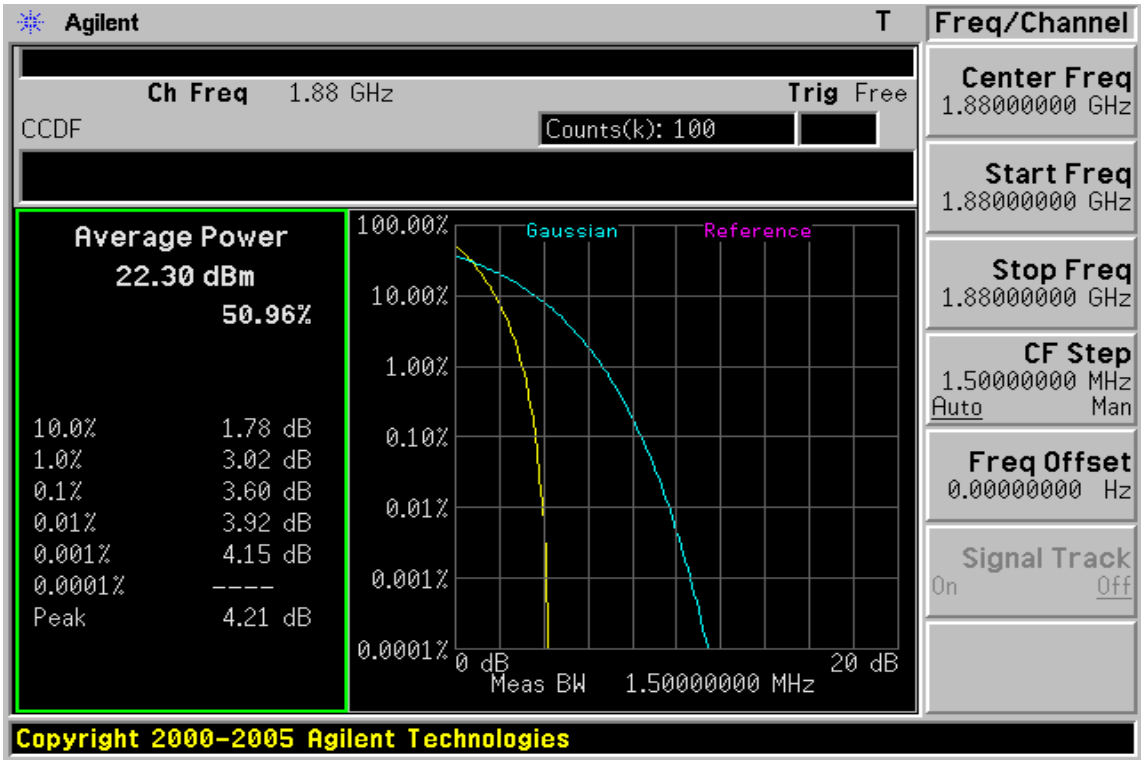


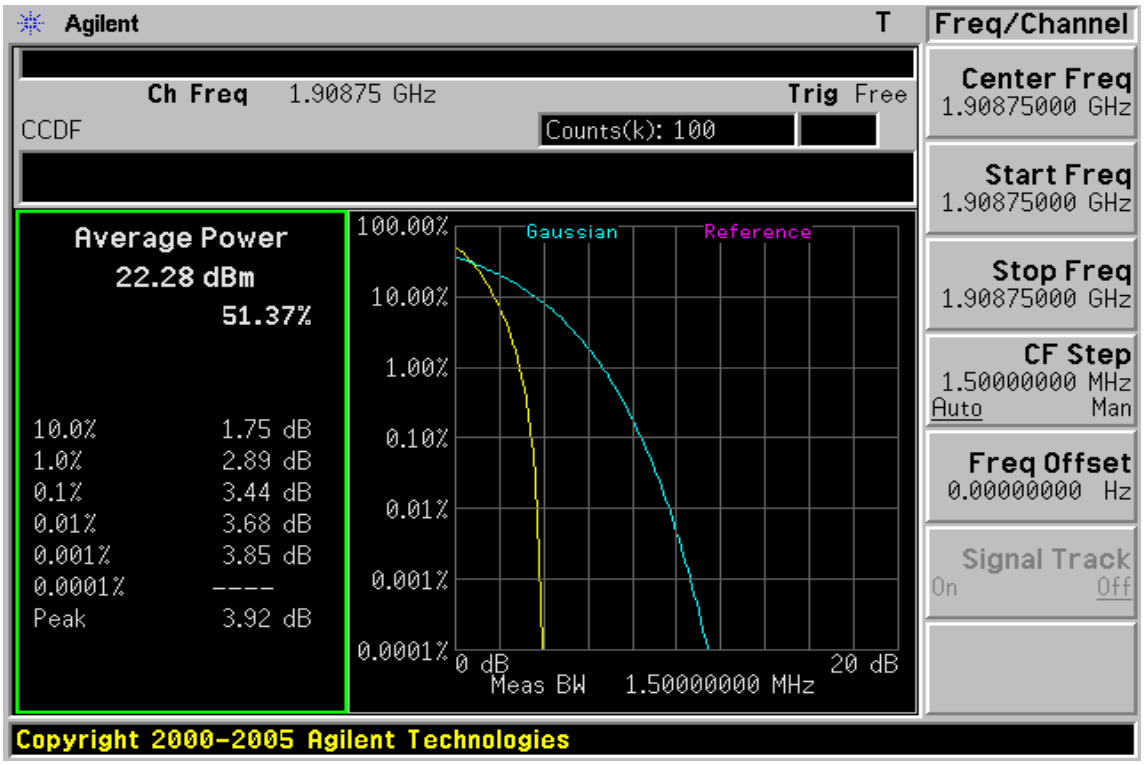
Figure 7-56: CDMA 2000 EVDO PCS Channel Mid



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Figure 7-57: CDMA 2000 EVDO PCS Channel High



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8. ERP, EIRP MEASUREMENT

8.1. Standard Applicable:

According to FCC §2.1046

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

FCC 24.232(c) Mobile station are limited to 2W EIRP.

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

According to IC RSS-132 §5.4

The transmitter output power shall be measured in terms of average power. The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts (40.60dBm). Refer to SRSP-503 for base station e.i.r.p. limits.

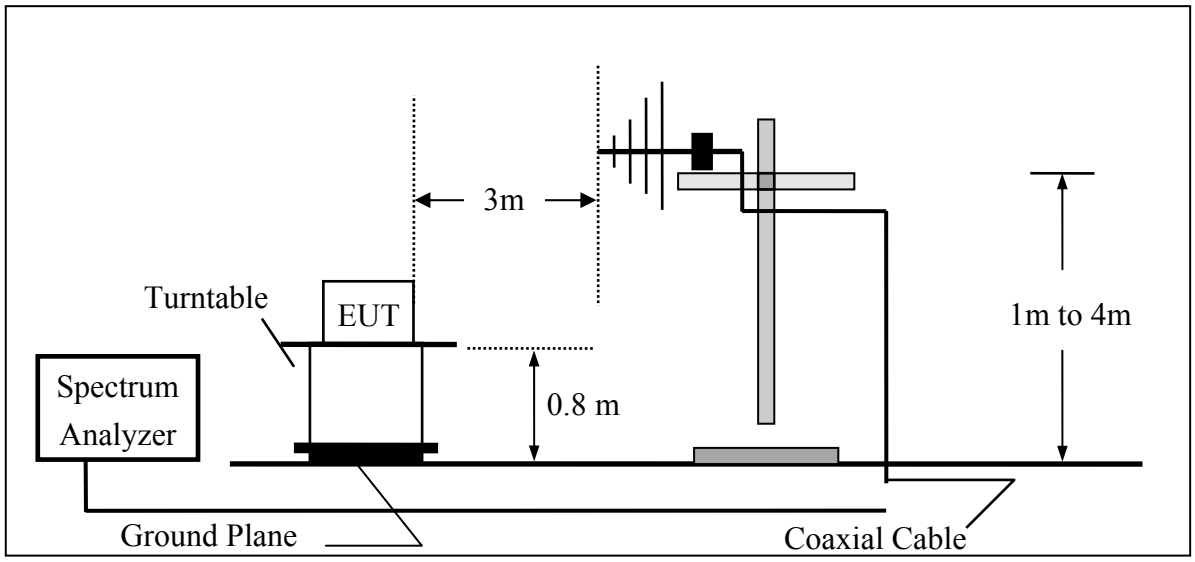
According to IC RSS-133 §6.4

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510 (33dBm).

According to IC RSS-139 §6.4. The peak e.i.r.p. for transmitters operating in the band 1710-1755 MHz shall not exceed the limits 1W.

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

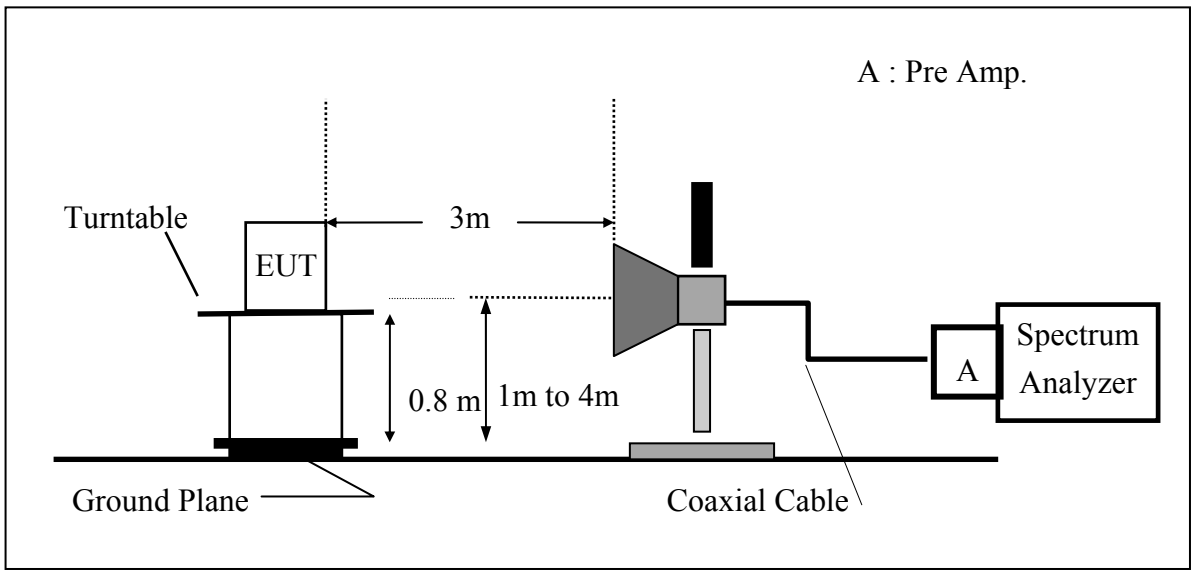
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



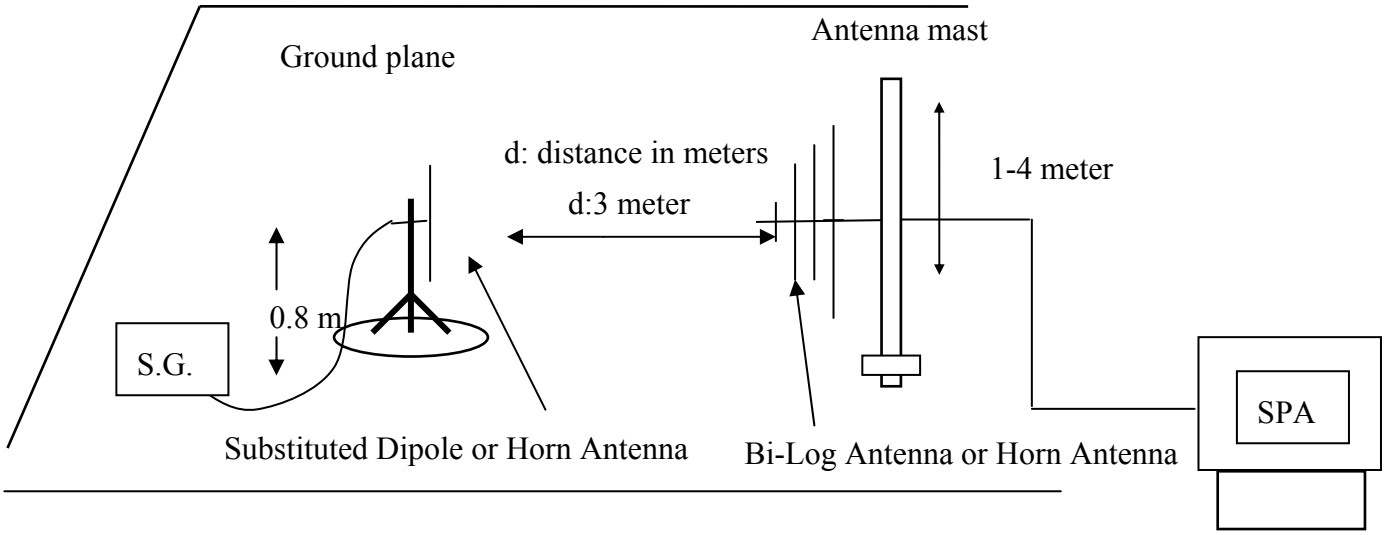
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Radiated Emission Test Set-UP Frequency Over 1 GHz



(B) Substituted Method Test Set-UP



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8.3. Measurement Procedure:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

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

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

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

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

Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW > =3XRBW.

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

   Set frequency = nominal signal center frequency;

   Set span = 2 X occupied BW;

   Set RBW ≈ 1~5% of the span, not to exceed 1 MHz

   Set VBW = 3 x RBW;

   Select average power (RMS) detector

   Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweet time = 601*10^-3 = 6s.

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Activate trace averaging routine over a minimum of 10 sweeps;
Activate marker/span pair and set span = signal or channel bandwidth;
Activate the band/interval power marker function;
Record the band power level;

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

(First Antenna)

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	E2	824.20	128	V	24.74	3.96	-4.22	24.48	38.45
				H	21.62	3.96	-4.22	21.36	38.45
		836.60	190	V	24.69	4.00	-4.24	24.45	38.45
				H	22.04	4.00	-4.24	21.80	38.45
		848.80	251	V	24.79	4.03	-4.33	**24.49**	38.45
				H	21.89	4.03	-4.33	21.59	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	E2	1850.20	512	V	29.21	4.17	-5.49	**27.90**	33.00
				H	26.82	4.51	-5.49	25.85	33.00
		1880.00	661	V	28.96	4.13	-5.56	27.53	33.00
				H	28.15	4.44	-5.56	27.02	33.00
		1909.80	810	V	28.38	4.09	-5.56	26.91	33.00
				H	28.71	4.36	-5.56	27.52	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	E2	824.20	128	V	24.06	3.96	-4.22	**23.81**	38.45
				H	18.98	3.96	-4.22	18.72	38.45
		836.60	190	V	23.85	4.00	-4.24	23.61	38.45
				H	19.04	4.00	-4.24	18.80	38.45
		848.80	251	V	23.93	4.03	-4.33	23.63	38.45
				H	19.81	4.03	-4.33	19.51	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	E2	1850.20	512	V	30.46	4.17	-5.49	**29.14**	33.00
				H	26.43	4.51	-5.49	25.45	33.00
		1880.00	661	V	29.30	4.13	-5.56	27.87	33.00
				H	23.44	4.44	-5.56	22.31	33.00
		1909.80	810	V	27.00	4.09	-5.56	25.54	33.00
				H	23.19	4.36	-5.56	21.99	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	E2	1852.4	9262	V	28.29	4.17	-5.49	**26.97**	33.00
				H	27.11	4.51	-5.49	26.13	33.00
		1880.0	9400	V	26.94	4.13	-5.56	25.52	33.00
				H	26.96	4.44	-5.56	25.83	33.00
		1907.6	9538	V	25.73	4.10	-5.62	24.21	33.00
				H	26.76	4.37	-5.62	25.51	33.00

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band IV	E2	1712.4	1312	V	26.52	4.40	-5.40	25.52	33.00
				H	26.59	4.79	-5.40	**25.98**	33.00
		1732.6	1413	V	25.69	4.35	-5.42	24.62	33.00
				H	25.45	4.78	-5.42	24.80	33.00
		1752.6	1513	V	26.08	4.31	-5.44	24.96	33.00
				H	24.30	4.76	-5.44	23.63	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	E2	826.40	4132	V	21.91	3.97	-4.22	**21.66**	38.45
				H	15.96	3.97	-4.22	15.71	38.45
		836.60	4183	V	21.58	3.99	-4.24	21.34	38.45
				H	16.45	4.00	-4.24	16.21	38.45
		846.60	4233	V	21.75	4.02	-4.24	21.54	38.45
				H	18.33	4.02	-4.24	18.12	38.45

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	E2	1852.4	9262	V	29.23	4.17	-5.49	**27.91**	33.00
				H	27.10	4.51	-5.49	26.12	33.00
		1880.0	9400	V	27.66	4.13	-5.56	26.23	33.00
				H	27.89	4.44	-5.56	26.77	33.00
		1907.6	9538	V	26.28	4.10	-5.62	24.76	33.00
				H	26.99	4.37	-5.56	25.80	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band IV	E2	1712.4	1312	V	27.29	4.40	-5.40	26.28	33.00
				H	27.48	4.79	-5.40	**26.87**	33.00
		1732.6	1413	V	26.50	4.35	-5.42	25.43	33.00
				H	26.17	4.78	-5.42	25.52	33.00
		1752.6	1513	V	26.44	4.31	-5.44	25.31	33.00
				H	24.35	4.77	-5.44	23.68	33.00

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	E2	826.40	4132	V	21.83	3.97	-4.22	21.58	38.45
				H	17.10	3.97	-4.22	16.85	38.45
		836.60	4183	V	22.04	4.00	-4.24	21.80	38.45
				H	17.11	4.00	-4.24	16.87	38.45
		846.60	4233	V	22.67	4.02	-4.24	**22.46**	38.45
				H	18.84	4.02	-4.24	18.63	38.45

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	E2	1852.4	9262	V	28.62	4.17	-5.49	**27.30**	33.00
				H	27.35	4.51	-5.49	26.37	33.00
		1880.0	9400	V	27.67	4.13	-5.56	26.24	33.00
				H	27.79	4.44	-5.56	26.67	33.00
		1907.6	9538	V	26.57	4.10	-5.62	25.04	33.00
				H	25.38	4.37	-5.62	24.12	33.00

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band IV	E2	1712.4	1312	V	27.33	4.40	-5.40	26.33	33.00
				H	27.22	4.79	-5.40	**26.61**	33.00
		1732.6	1413	V	26.46	4.35	-5.42	25.39	33.00
				H	26.24	4.78	-5.42	25.60	33.00
		1752.6	1513	V	25.86	4.31	-5.44	24.73	33.00
				H	24.46	4.76	-5.44	23.79	33.00

Remark：

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

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
HSDPA Band V	E2	826.40	4132	V	22.62	3.97	-4.22	22.36	38.45
				H	16.86	3.97	-4.22	16.61	38.45
		836.60	4183	V	22.27	4.00	-4.24	22.03	38.45
				H	17.04	4.00	-4.24	16.80	38.45
		846.60	4233	V	22.69	4.02	-4.24	**22.47**	38.45
				H	19.07	4.02	-4.24	18.86	38.45

Remark：

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

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
CDMA 2000 Cellular	E2	824.70	1013	V	22.17	3.97	-2.80	23.34	38.45
				H	16.89	3.97	-2.80	18.05	38.45
		836.52	384	V	22.23	4.00	-2.82	**23.41**	38.45
				H	18.32	4.00	-2.82	19.50	38.45
		848.31	777	V	21.71	4.03	-2.84	22.90	38.45
				H	18.81	4.03	-2.84	19.99	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 PCS	E2	1851.25	25	V	28.16	4.17	-4.29	**28.04**	33.00
				H	22.45	4.51	-4.29	22.66	33.00
		1880.00	600	V	27.33	4.13	-4.33	27.13	33.00
				H	23.58	4.44	-4.33	23.69	33.00
		1908.75	1175	V	26.27	4.10	-4.37	26.00	33.00
				H	23.81	4.37	-4.37	23.81	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 EVDO Cellular	E2	824.70	1013	V	21.74	3.97	-2.80	**22.90**	38.45
				H	16.28	3.97	-2.80	17.45	38.45
		836.52	384	V	21.63	4.00	-2.82	22.80	38.45
				H	17.72	4.00	-2.82	18.90	38.45
		848.31	777	V	20.85	4.03	-2.84	22.03	38.45
				H	18.14	4.03	-2.84	19.33	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
CDMA 2000 EVDO PCS	E2	1851.25	25	V	27.27	4.17	-4.29	**27.15**	33.00
				H	21.59	4.51	-4.29	21.80	33.00
		1880.00	600	V	26.46	4.13	-4.33	26.27	33.00
				H	22.67	4.44	-4.33	22.78	33.00
		1908.75	1175	V	25.63	4.10	-4.37	25.36	33.00
				H	23.08	4.37	-4.37	23.08	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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(Second Antenna)

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	E2	824.20	128	V	25.23	3.96	-4.22	**24.97**	38.45
				H	24.42	3.96	-4.22	24.16	38.45
		836.60	190	V	25.18	4.00	-4.24	24.94	38.45
				H	24.17	4.00	-4.24	23.93	38.45
		848.80	251	V	25.48	4.03	-4.33	25.18	38.45
				H	24.05	4.03	-4.33	23.75	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
GPRS 1900	E2	1850.20	512	V	28.44	4.17	-5.49	27.13	33.00
				H	20.54	4.51	-5.49	19.56	33.00
		1880.00	661	V	29.06	4.13	-5.56	27.64	33.00
				H	20.17	4.44	-5.56	19.05	33.00
		1909.80	810	V	29.99	4.09	-5.56	**28.53**	33.00
				H	20.12	4.36	-5.56	18.93	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	E2	824.20	128	V	25.33	3.96	-4.22	25.07	38.45
				H	24.55	3.96	-4.22	24.29	38.45
		836.60	190	V	25.25	4.00	-4.24	25.01	38.45
				H	24.29	4.00	-4.24	24.05	38.45
		848.80	251	V	25.51	4.03	-4.33	**25.21**	38.45
				H	24.11	4.03	-4.33	23.81	38.45

Remark：

(1) The RBW,VBW of SPA for measurement RBW=300 KHz, VBW=1MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
EDGE 1900	E2	1850.20	512	V	27.22	4.17	-5.49	**25.90**	33.00
				H	18.13	4.51	-5.49	17.16	33.00
		1880.00	661	V	26.78	4.13	-5.56	25.36	33.00
				H	18.77	4.44	-5.56	17.65	33.00
		1909.80	810	V	27.28	4.09	-5.56	25.82	33.00
				H	16.97	4.36	-5.56	15.78	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	E2	1852.4	9262	V	24.99	4.17	-5.49	23.67	33.00
				H	15.44	4.51	-5.49	14.46	33.00
		1880.0	9400	V	24.64	4.13	-5.56	23.21	33.00
				H	16.49	4.44	-5.56	15.37	33.00
		1907.6	9538	V	25.74	4.10	-5.62	**24.21**	33.00
				H	15.62	4.37	-5.62	14.37	33.00

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band IV	E2	1712.4	1312	V	25.15	4.40	-5.40	24.15	33.00
				H	23.08	4.79	-5.40	22.47	33.00
		1732.6	1413	V	24.51	4.35	-5.42	23.44	33.00
				H	23.53	4.78	-5.42	22.89	33.00
		1752.6	1513	V	25.56	4.31	-5.44	**24.44**	33.00
				H	21.78	4.77	-5.44	21.11	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	E2	826.40	4132	V	21.92	3.97	-4.22	21.67	38.45
				H	20.57	3.97	-4.22	20.32	38.45
		836.60	4183	V	22.22	4.00	-4.24	**21.98**	38.45
				H	20.70	4.00	-4.24	20.46	38.45
		846.60	4233	V	21.97	4.02	-4.24	21.75	38.45
				H	20.20	4.02	-4.24	19.98	38.45

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	E2	1852.4	9262	V	26.89	4.17	-5.49	**25.57**	33.00
				H	18.27	4.51	-5.49	17.29	33.00
		1880.0	9400	V	25.15	4.13	-5.56	23.72	33.00
				H	17.19	4.44	-5.56	16.07	33.00
		1907.6	9538	V	23.65	4.10	-5.62	22.13	33.00
				H	17.14	4.37	-5.62	15.89	33.00

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band IV	E2	1712.4	1312	V	23.02	4.40	-5.40	22.02	33.00
				H	23.49	4.79	-5.40	22.88	33.00
		1732.6	1413	V	24.60	4.35	-5.42	23.53	33.00
				H	24.06	4.78	-5.42	23.41	33.00
		1752.6	1513	V	25.50	4.31	-5.44	**24.38**	33.00
				H	21.70	4.76	-5.44	21.03	33.00

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	E2	826.40	4132	V	22.48	3.97	-4.22	22.23	38.45
				H	21.41	3.97	-4.22	21.15	38.45
		836.60	4183	V	23.10	3.99	-4.24	**22.86**	38.45
				H	21.14	4.00	-4.24	20.90	38.45
		846.60	4233	V	22.46	4.02	-4.24	22.24	38.45
				H	20.95	4.02	-4.24	20.74	38.45

Remark：

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

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	E2	1852.4	9262	V	26.09	4.17	-5.49	24.77	33.00
				H	16.90	4.51	-5.49	15.92	33.00
		1880.0	9400	V	25.44	4.13	-5.56	24.01	33.00
				H	15.45	4.44	-5.56	14.32	33.00
		1907.6	9538	V	27.56	4.10	-5.56	**26.10**	33.00
				H	16.68	4.37	-5.62	15.43	33.00

Remark：

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

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band IV	E2	1712.4	1312	V	24.48	4.40	-5.40	23.47	33.00
				H	23.49	4.79	-5.40	22.88	33.00
		1732.6	1413	V	24.91	4.35	-5.42	23.84	33.00
				H	23.68	4.78	-5.42	23.04	33.00
		1752.6	1513	V	25.72	4.31	-5.44	**24.60**	33.00
				H	21.56	4.76	-5.44	20.89	33.00

Remark：

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

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
HSDPA Band V	E2	826.40	4132	V	22.72	3.97	-4.22	22.47	38.40
				H	21.37	3.97	-4.22	21.12	38.40
		836.60	4183	V	22.50	4.00	-4.24	22.26	38.40
				H	21.20	4.00	-4.24	20.96	38.40
		846.60	4233	V	22.78	4.02	-4.24	**22.56**	38.40
				H	20.77	4.02	-4.24	20.55	38.40

Remark：

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

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
CDMA 2000 Cellular	E2	824.70	1013	V	21.04	3.97	-2.80	22.20	38.45
				H	23.16	3.96	-2.80	24.32	38.45
		836.52	384	V	21.76	4.00	-2.82	22.94	38.45
				H	23.63	4.00	-2.82	**24.81**	38.45
		848.31	777	V	20.59	4.03	-2.84	21.78	38.45
				H	23.54	4.02	-2.84	24.72	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 PCS	E2	1851.25	25	V	24.76	4.17	-4.29	24.64	33.00
				H	26.39	4.51	-4.29	**26.60**	33.00
		1880.00	600	V	26.10	4.13	-4.33	25.90	33.00
				H	24.01	4.44	-4.33	24.12	33.00
		1908.75	1175	V	25.72	4.10	-4.37	25.45	33.00
				H	23.90	4.37	-4.37	23.90	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 EVDO Cellular	E2	824.70	1013	V	20.24	3.97	-2.80	21.40	38.45
				H	22.35	3.96	-2.80	23.52	38.45
		836.52	384	V	20.85	4.00	-2.82	22.02	38.45
				H	22.28	4.00	-2.82	23.46	38.45
		848.31	777	V	19.69	4.03	-2.84	20.87	38.45
				H	22.37	4.02	-2.84	**23.56**	38.45

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
CDMA 2000 EVDO PCS	E2	1851.25	25	V	23.90	4.17	-4.29	23.78	33.00
				H	25.35	4.51	-4.29	**25.57**	33.00
		1880.00	600	V	25.33	4.13	-4.33	25.13	33.00
				H	22.99	4.44	-4.33	23.10	33.00
		1908.75	1175	V	25.07	4.10	-4.37	24.80	33.00
				H	23.02	4.37	-4.37	23.02	33.00

Remark：

(1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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9. 99% OCCUPIED BANDWIDTH MEASUREMENT

9.1. Standard Applicable:

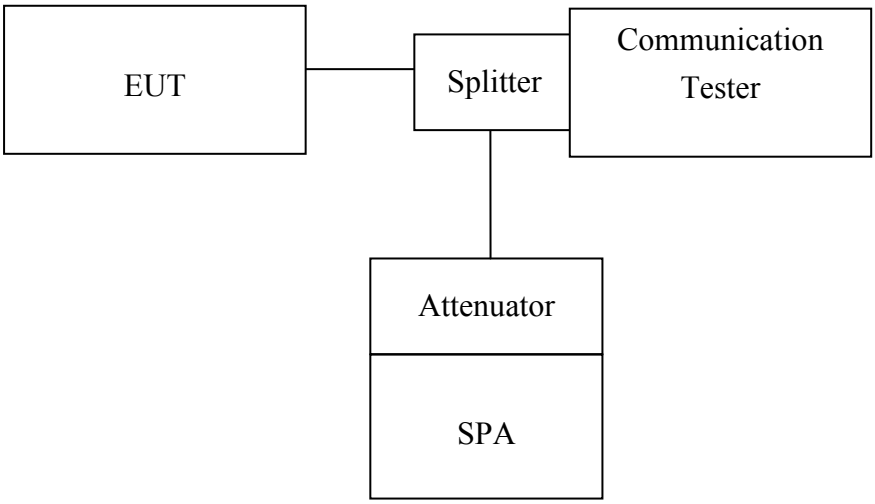
According to §FCC 2.1049.

According to IC RSS-Gen Issue 3 §4.6.1

According to IC RSS-133 §2.3

According to IC RSS-139 §2.3

9.2. Test Set-up:



Note: *Measurement setup for testing on Antenna connector*

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9.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW (10/30KHz) for GSM/EDGE; VBW= 3 times RBW (47/150KHz) for WCDMA/HSUPA/HSDPA, VBW= 3 times RBW (15/47KHz) for CDMA/EVDO, -20dBc 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 (kHz)
GPRS 850	824.20	128	242.9409
	836.60	190	244.9835
	848.80	251	244.2885

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
GPRS 1900	1850.20	512	242.1344
	1880.00	661	241.4484
	1909.80	810	246.8571

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
EDGE 850	824.20	128	249.7476
	836.60	190	241.6400
	848.80	251	247.4226

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (kHz)
EDGE 1900	1850.20	512	242.1503
	1880.00	661	245.2973
	1909.80	810	246.2445

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.1433
	1880.00	9400	4.1284
	1907.60	9538	4.1317

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.1407
	1732.60	1413	4.1434
	1752.60	1513	4.1295

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1428
	836.00	4180	4.1179
	846.60	4233	4.1272

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.4	9262	4.1152
	1880.0	9400	4.1310
	1907.6	9538	4.1529

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.1551
	1732.60	1413	4.1573
	1752.60	1513	4.1621

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1599
	836.60	4183	4.1464
	846.60	4233	4.1437

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.4	9262	4.1492
	1880.0	9400	4.1271
	1907.6	9538	4.1403

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.1549
	1732.60	1413	4.1487
	1752.60	1513	4.1736

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1413
	836.60	4183	4.1292
	846.60	4233	4.1401

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 Cellular	824.70	1013	1.2677
	836.52	384	1.2640
	848.31	777	1.2719

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 PCS	1851.25	25	1.2676
	1880.00	600	1.2701
	1908.75	1175	1.2656

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO Cellular	824.70	1013	1.2667
	836.52	384	1.2658
	848.31	777	1.2622

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO PCS	1851.25	25	1.2708
	1880.00	600	1.2673
	1908.75	1175	1.2668

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20dB Bandwidth

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GPRS 850	824.20	128	0.303
	836.60	190	0.300
	848.80	251	0.301

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
GPRS 1900	1850.20	512	0.299
	1880.00	661	0.300
	1909.80	810	0.303

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
EDGE 850	824.20	128	0.295
	836.60	190	0.300
	848.80	251	0.294

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
EDGE 1900	1850.20	512	0.297
	1880.00	661	0.305
	1909.80	810	0.304

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA II	1852.40	9262	4.541
	1880.00	9400	4.533
	1907.60	9538	4.530

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.549
	1732.60	1413	4.552
	1752.60	1513	4.527

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
WCDMA V	826.40	4132	4.544
	836.60	4183	4.548
	846.60	4233	4.574

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA II	1852.4	9262	4.549
	1880.0	9400	4.539
	1907.6	9538	4.575

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.540
	1732.60	1413	4.527
	1752.60	1513	4.527

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSUPA V	826.40	4132	4.522
	836.60	4183	4.563
	846.60	4233	4.564

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA II	1852.40	9262	4.550
	1880.00	9400	4.520
	1907.60	9538	4.539

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.555
	1732.60	1413	4.536
	1752.60	1513	4.535

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
HSDPA V	826.40	4132	4.549
	836.60	4183	4.556
	846.60	4233	4.537

EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
CDMA 2000 Cellular	824.70	1013	1.379
	836.52	384	1.377
	848.31	777	1.387

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 PCS	1851.25	25	1.376
	1880.00	600	1.380
	1908.75	1175	1.377

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EUT Mode	Frequency (MHz)	CH	20dB Bandwidth (MHz)
CDMA 2000 EVDO Cellular	824.70	1013	1.380
	836.52	384	1.385
	848.31	777	1.381

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO PCS	1851.25	25	1.389
	1880.00	600	1.380
	1908.75	1175	1.383

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99% Bandwidth Test Data

Figure 9-1: GPRS 850 Channel Low

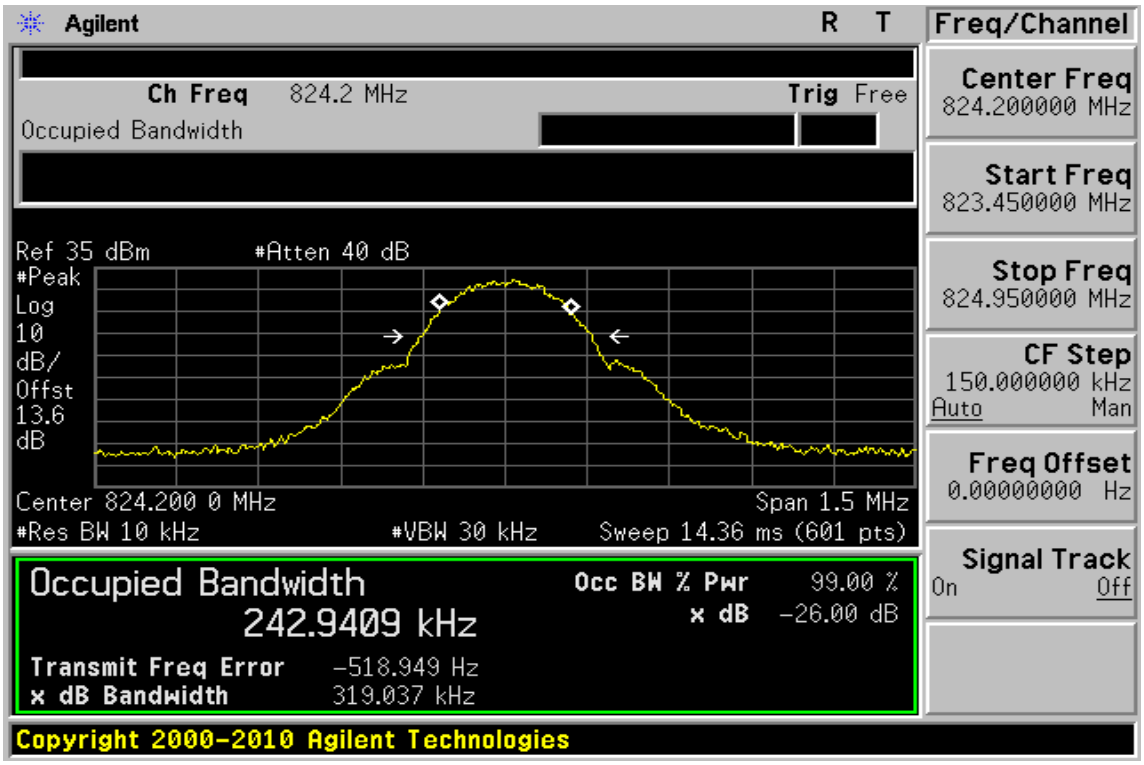
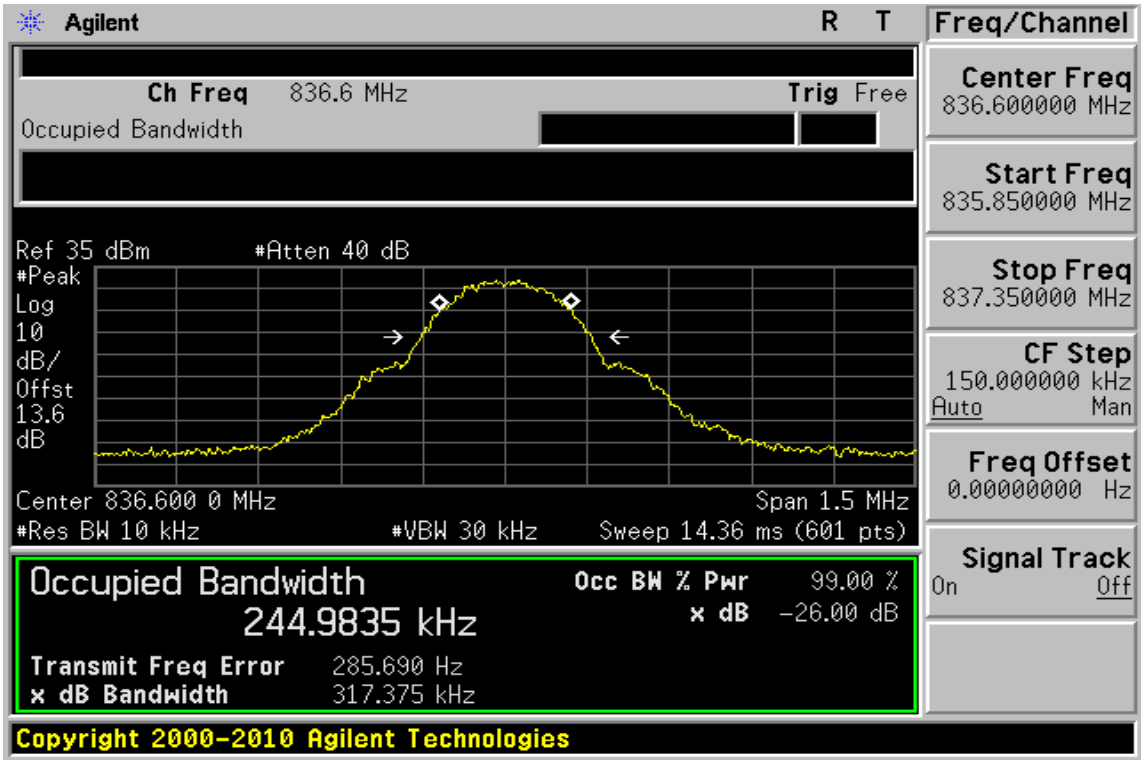


Figure 9-2: GPRS 850 Channel Mid



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Figure 9-3: GPRS 850 Channel High

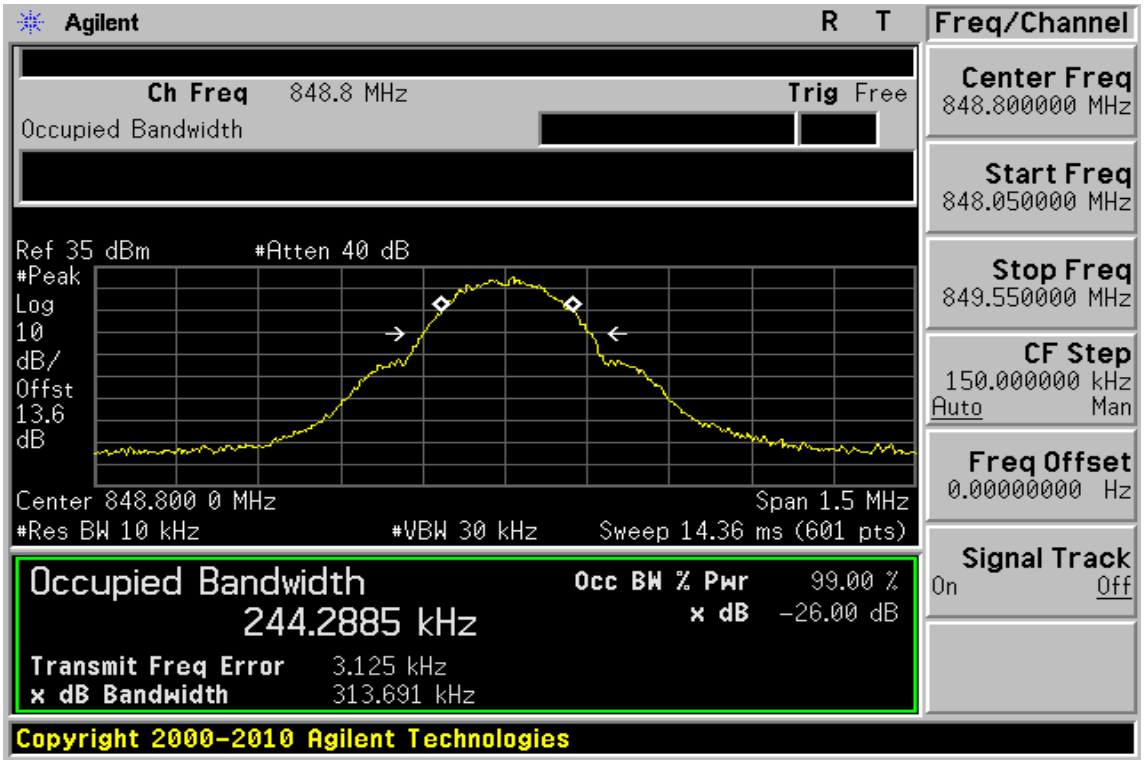
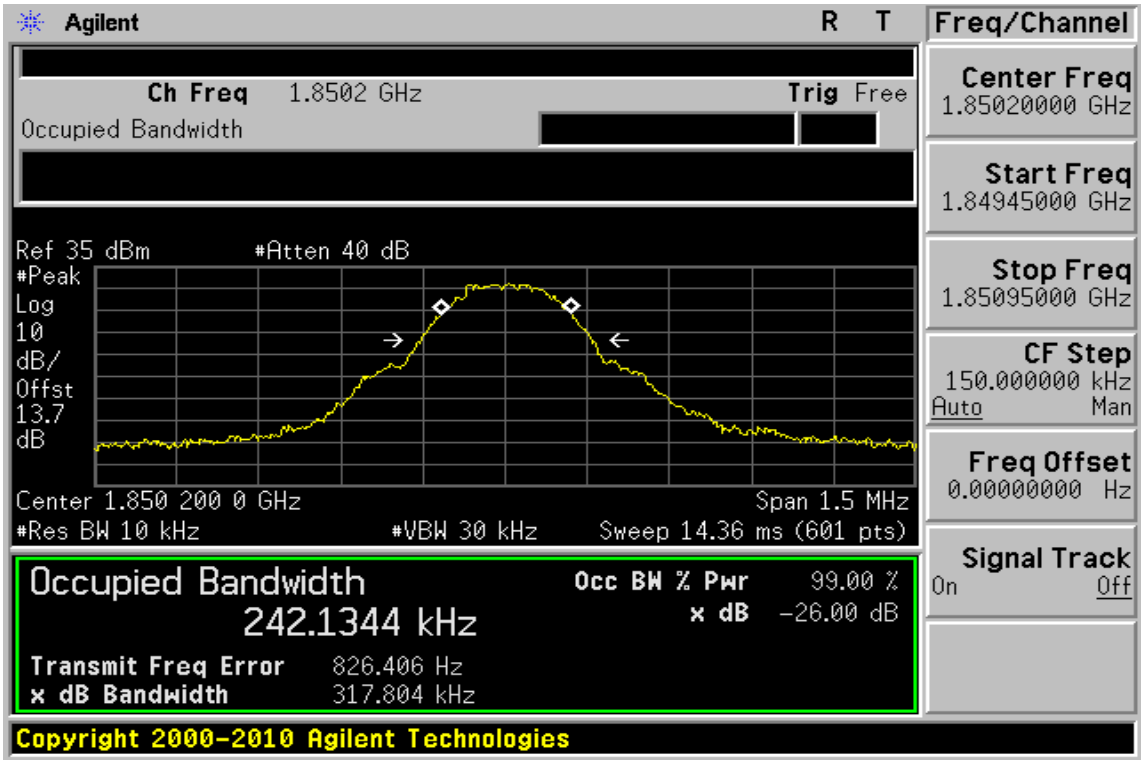


Figure 9-4: GPRS 1900 Channel Low



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Figure 9-5: GPRS 1900 Channel Mid

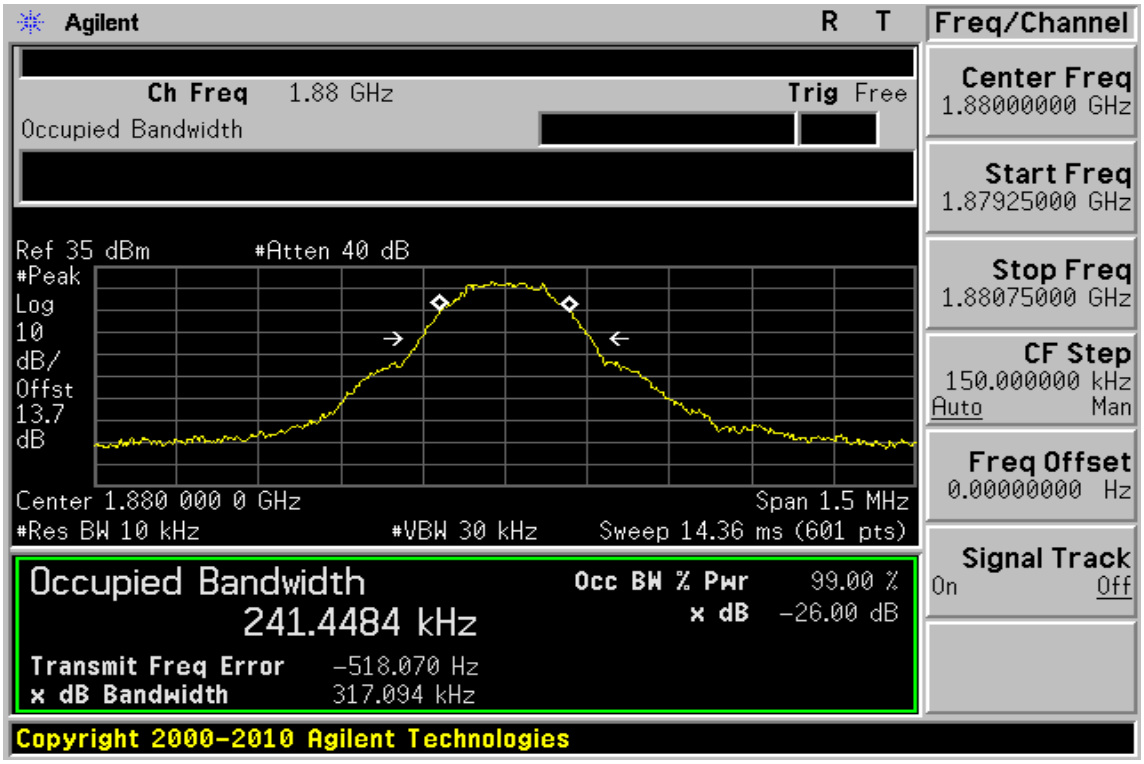
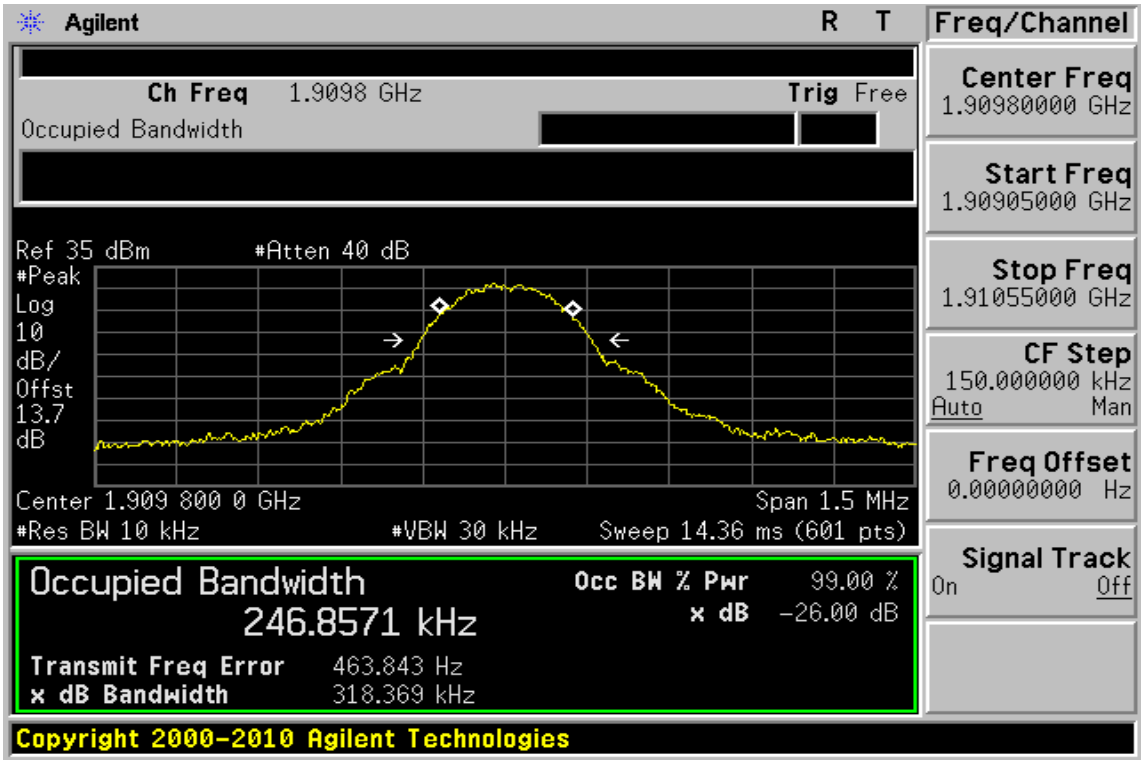


Figure 9-6: GPRS 1900 Channel High



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Figure 9-7: EDGE 850 Channel Low

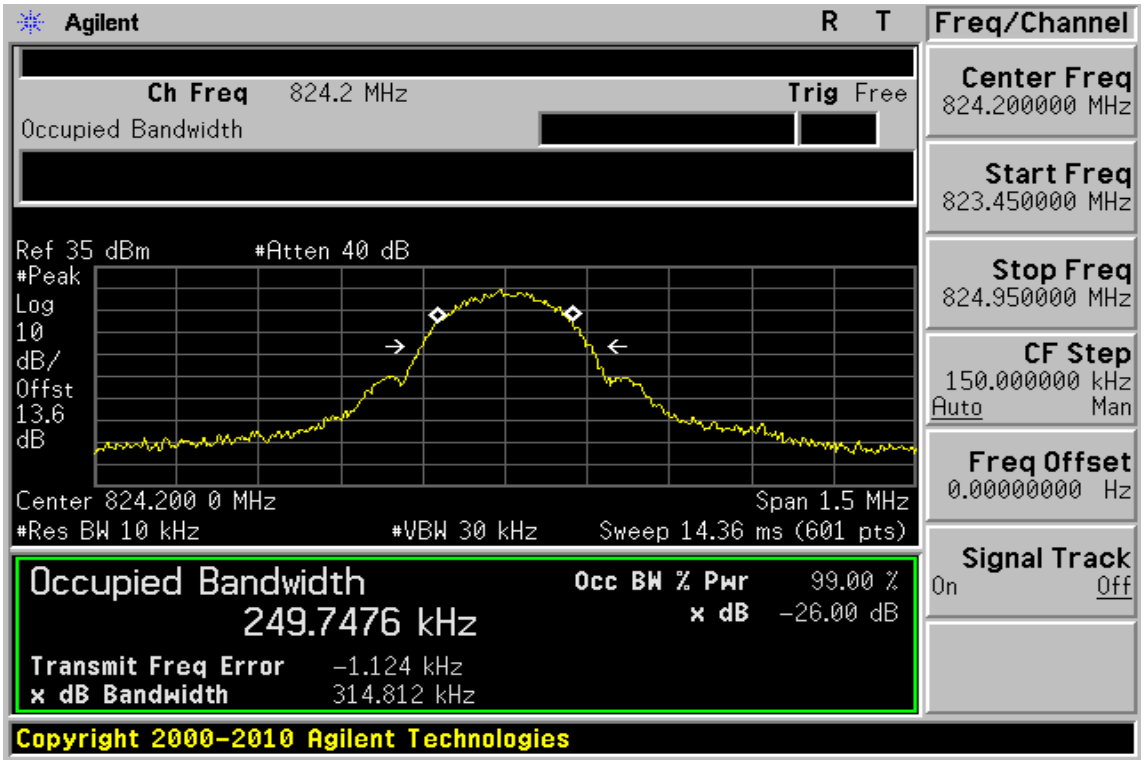
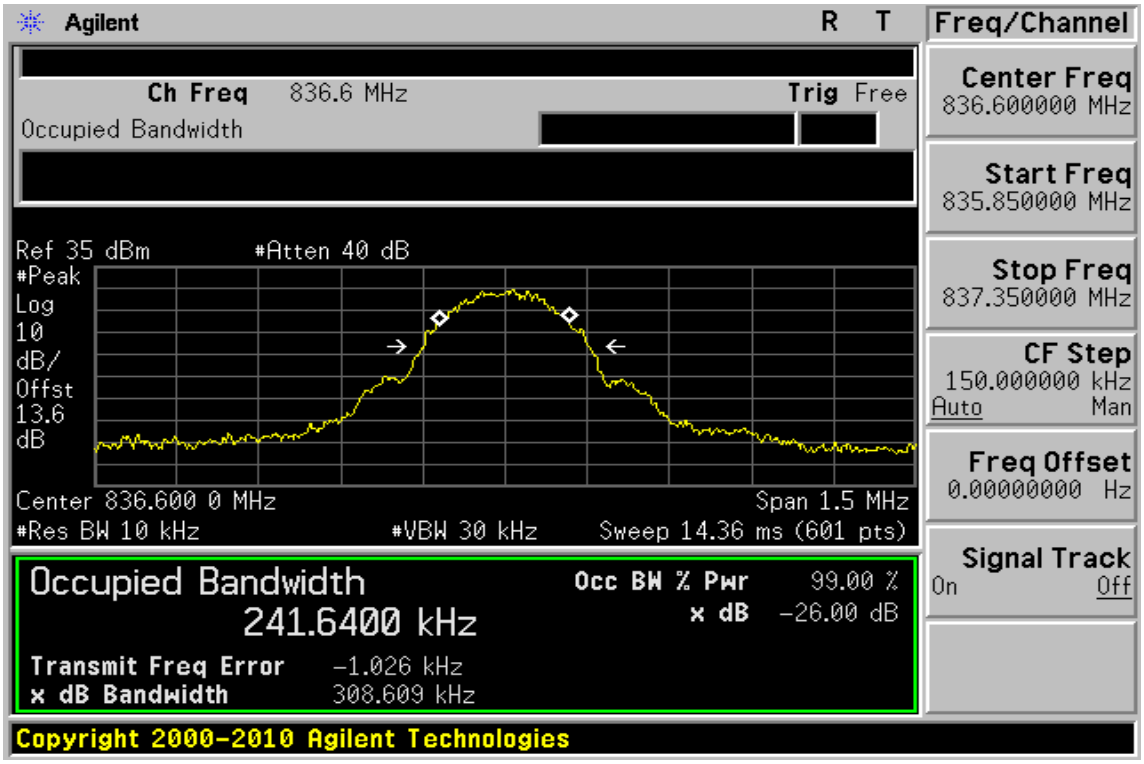


Figure 9-8 EDGE 850 Channel Mid



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Figure 9-9: EDGE 850 Channel High

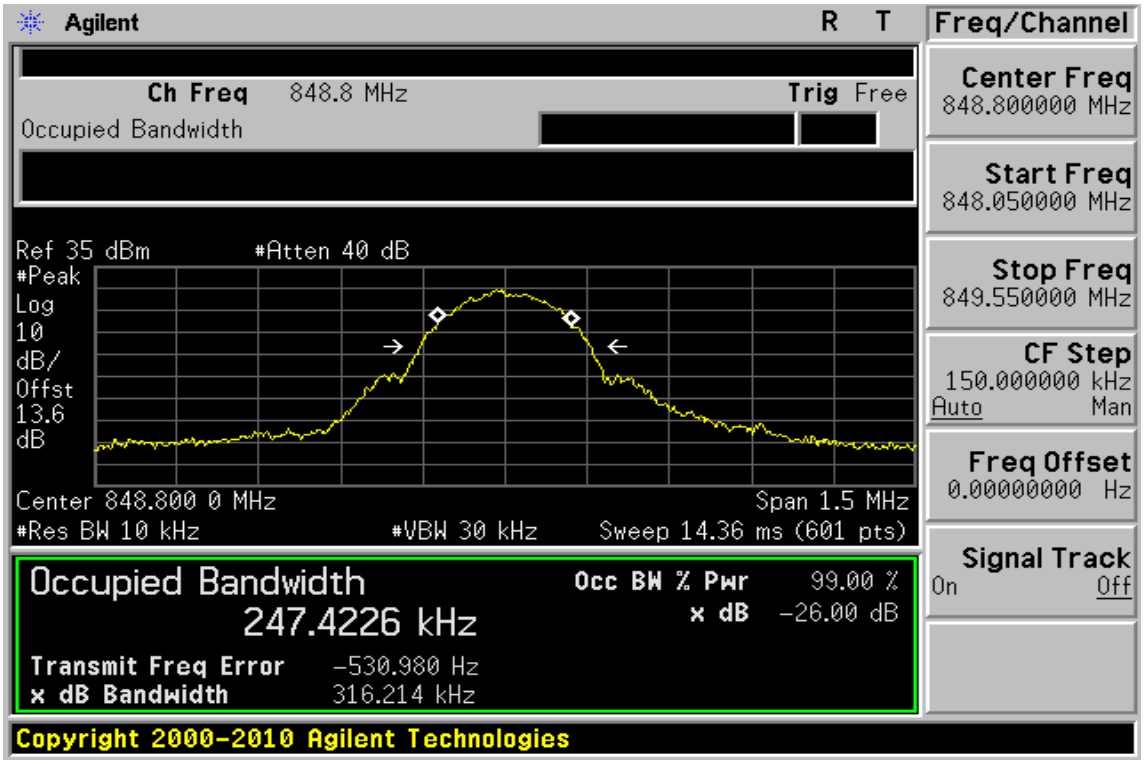
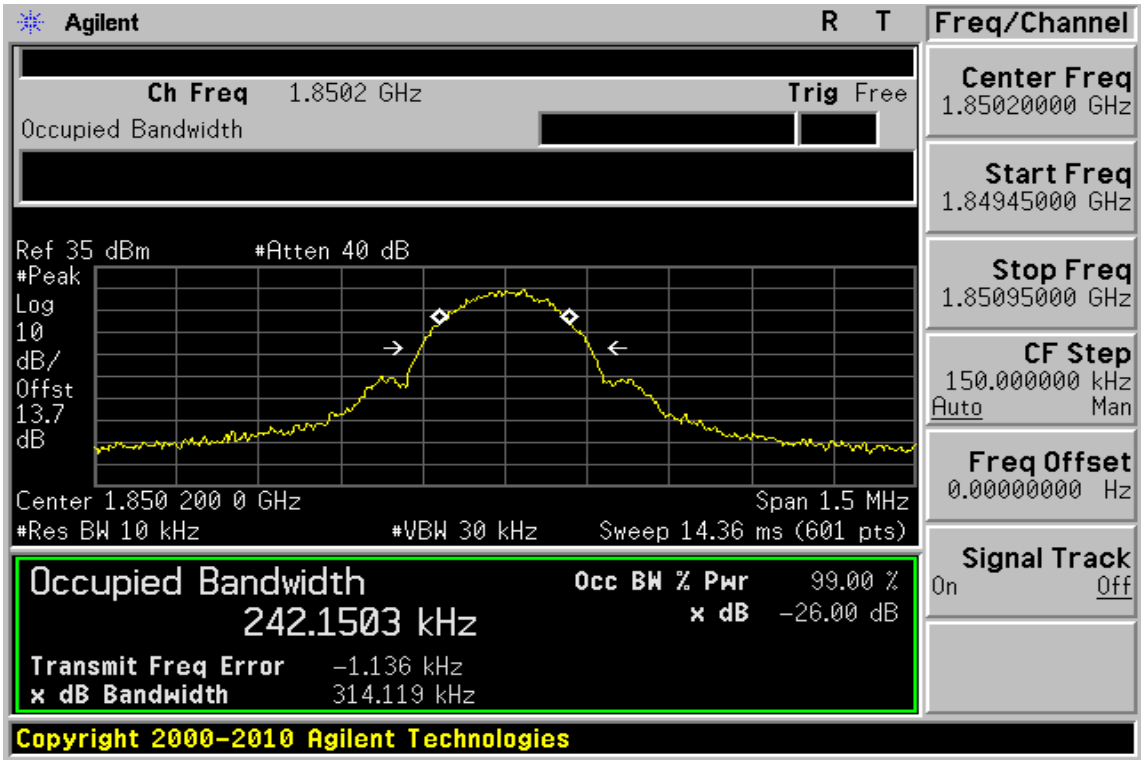


Figure 9-10: EDGE 1900 Channel Low



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Figure 9-11 EDGE 1900 Channel Mid

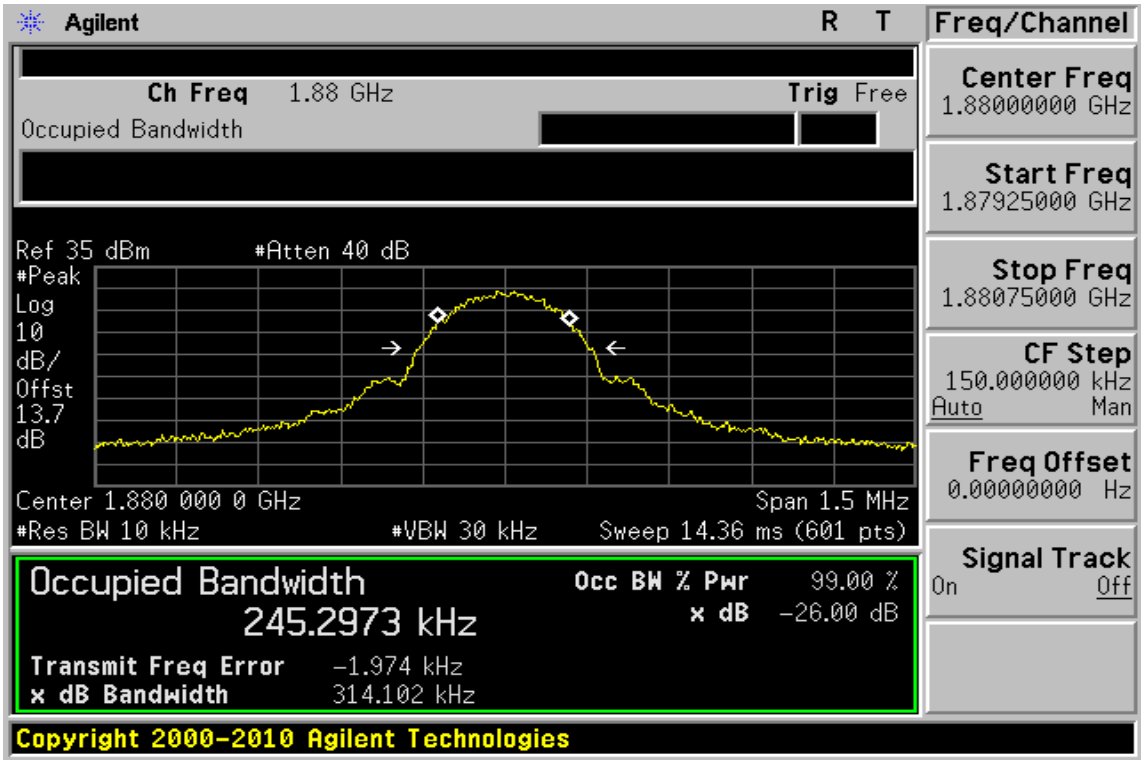
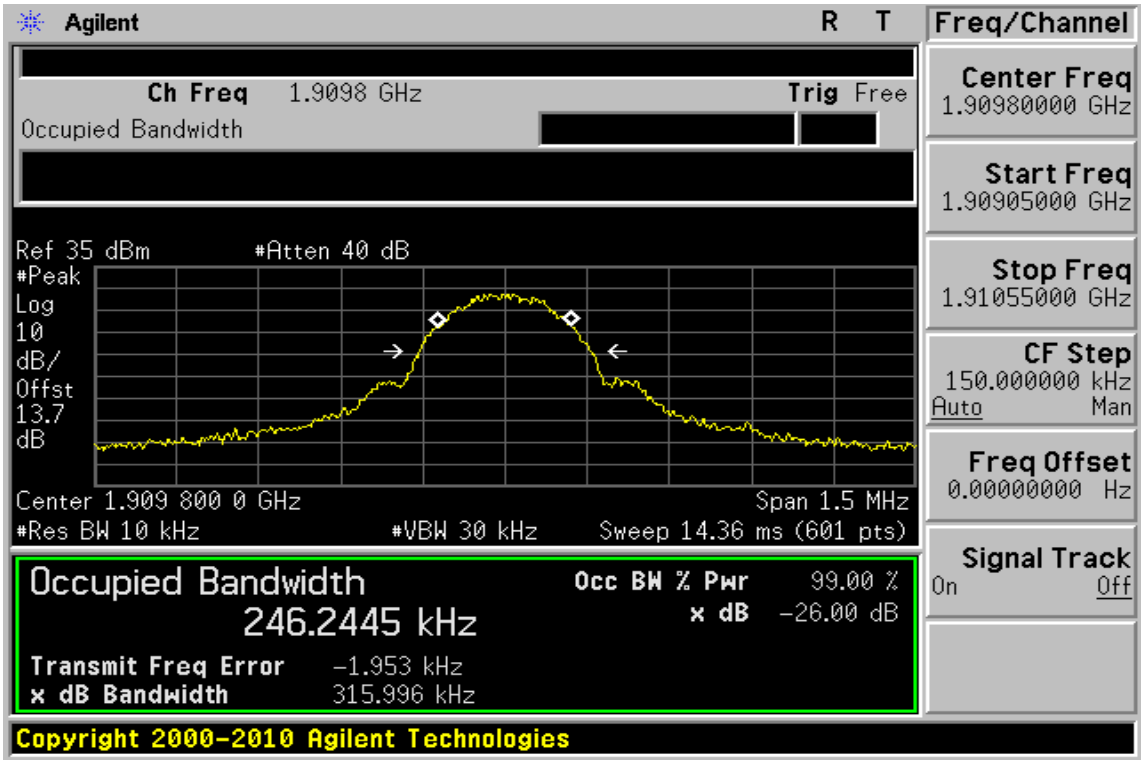


Figure 9-12: EDGE 1900 Channel High



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Figure 9-13: WCDMA II Channel Low

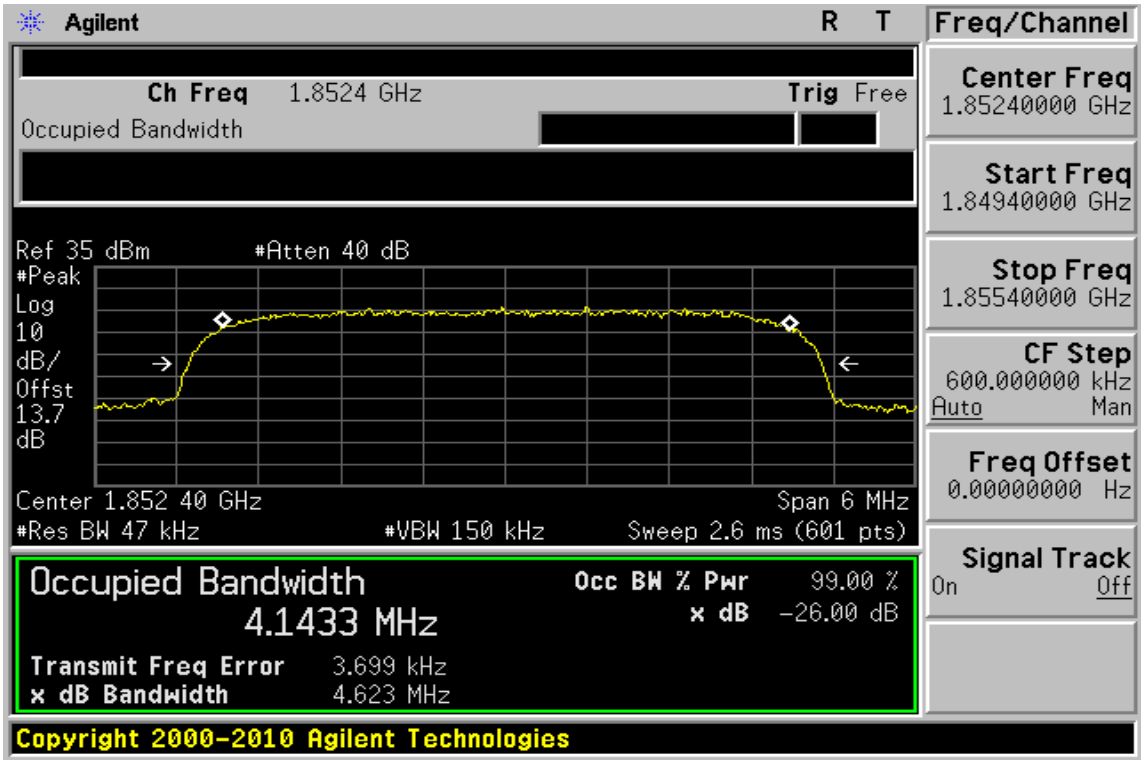
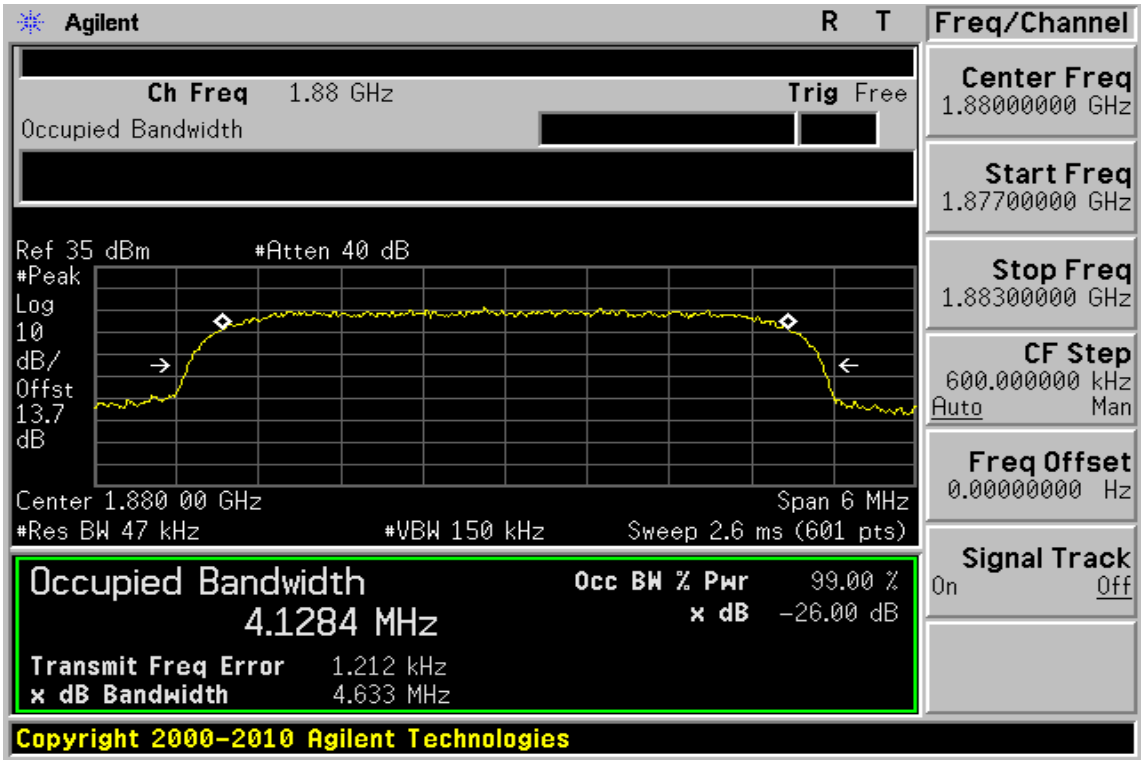


Figure 9-14 WCDMA II Channel Mid



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Figure 9-15: WCDMA II Channel High

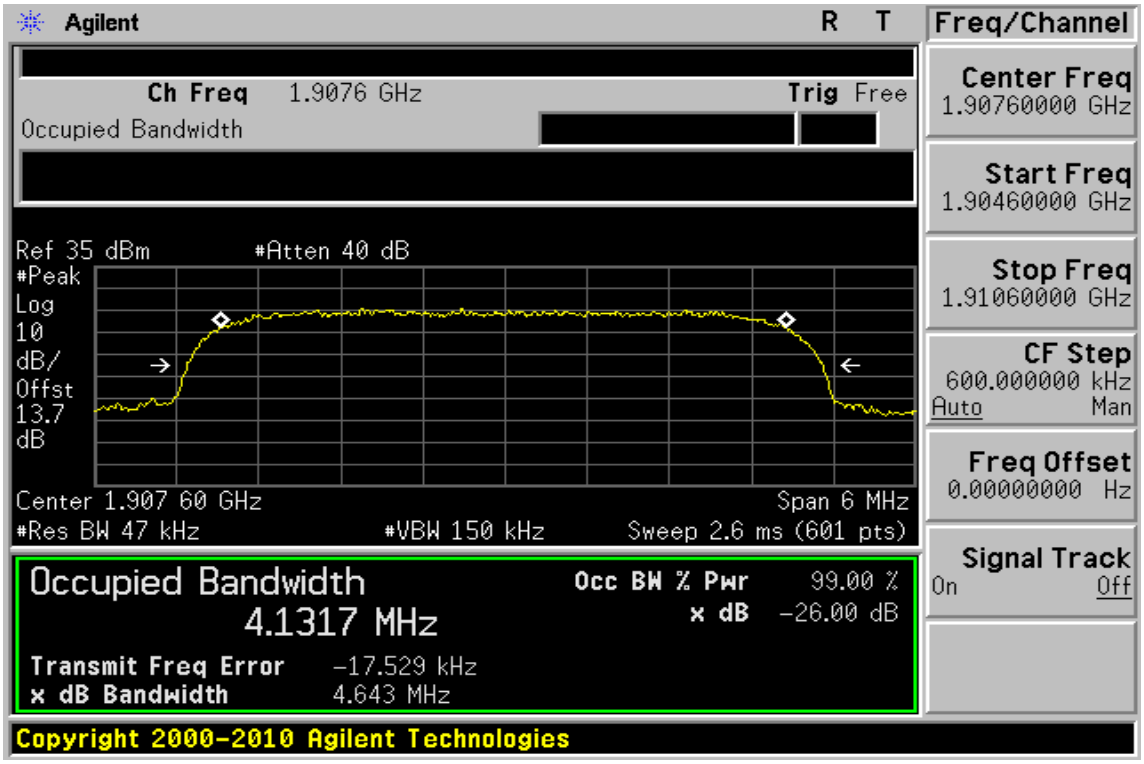
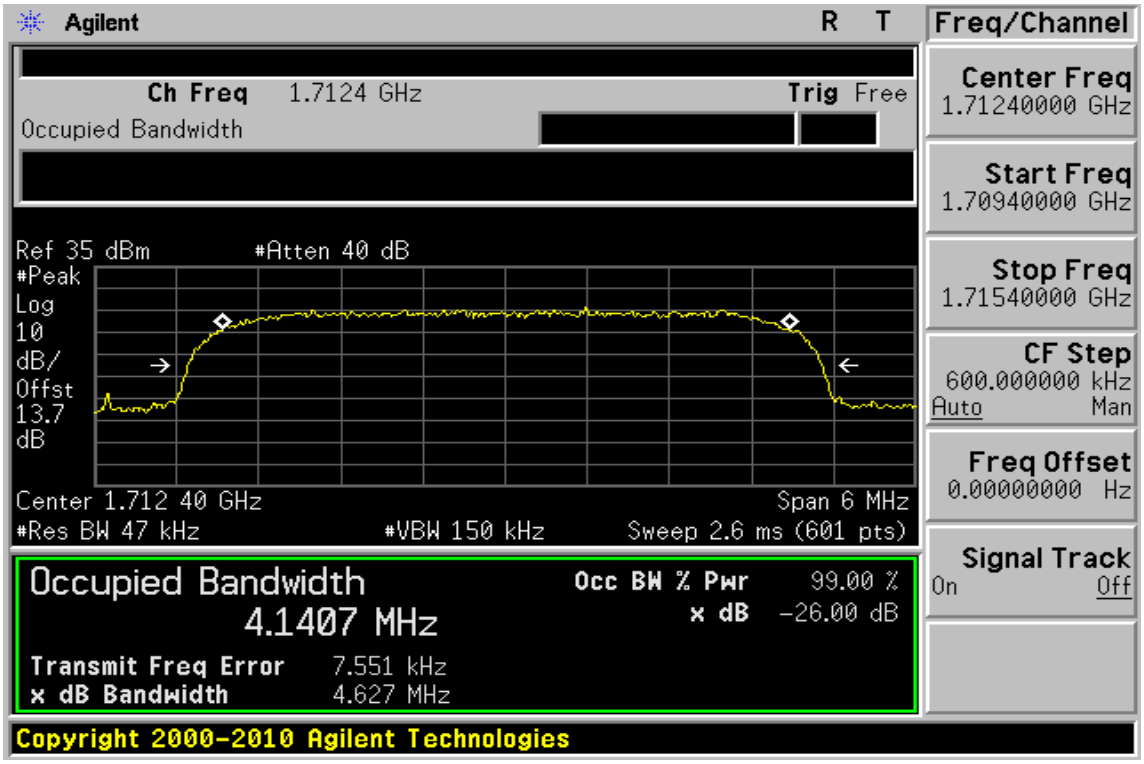


Figure 9-16: WCDMA IV Channel Low



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Figure 9-17 WCDMA IV Channel Mid

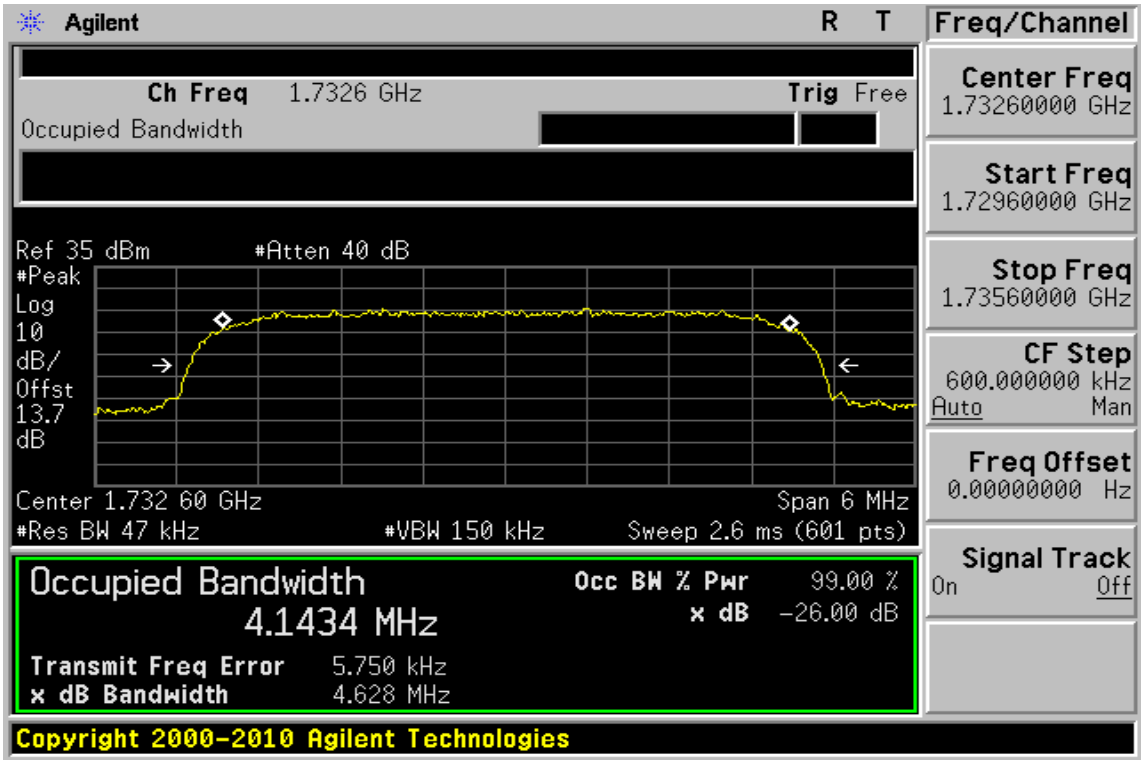
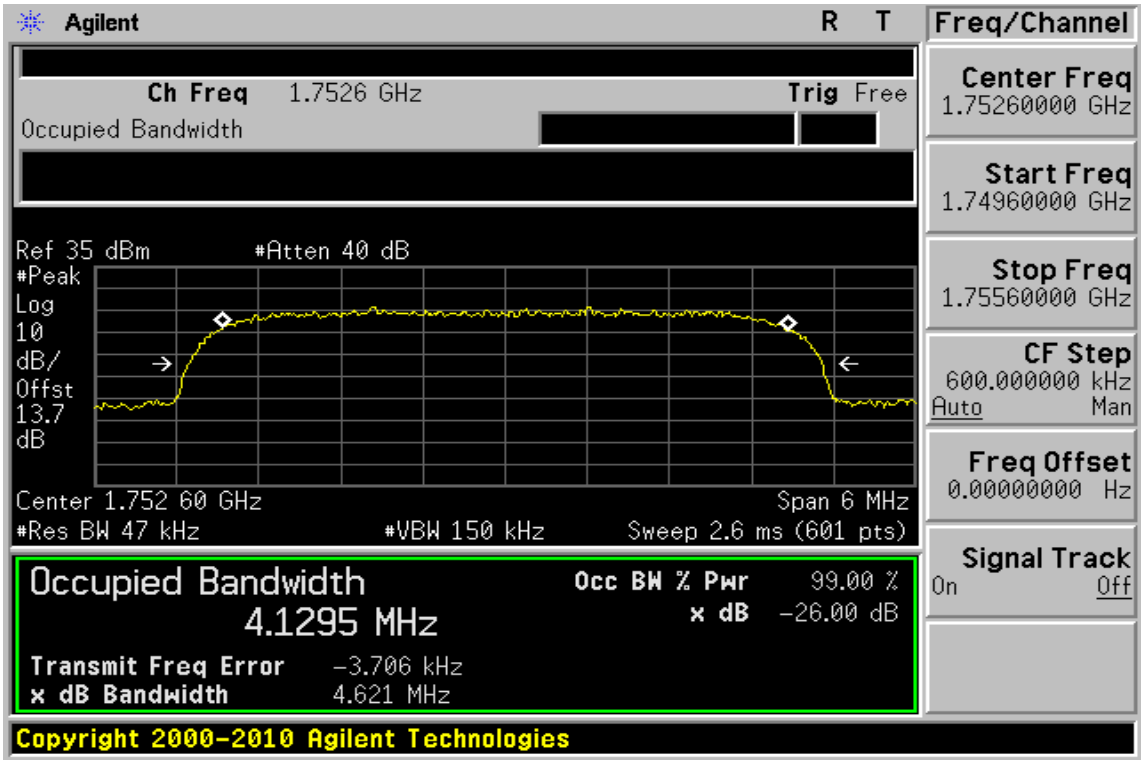


Figure 9-18: WCDMA IV Channel High



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Figure 9-19: WCDMA V Channel Low

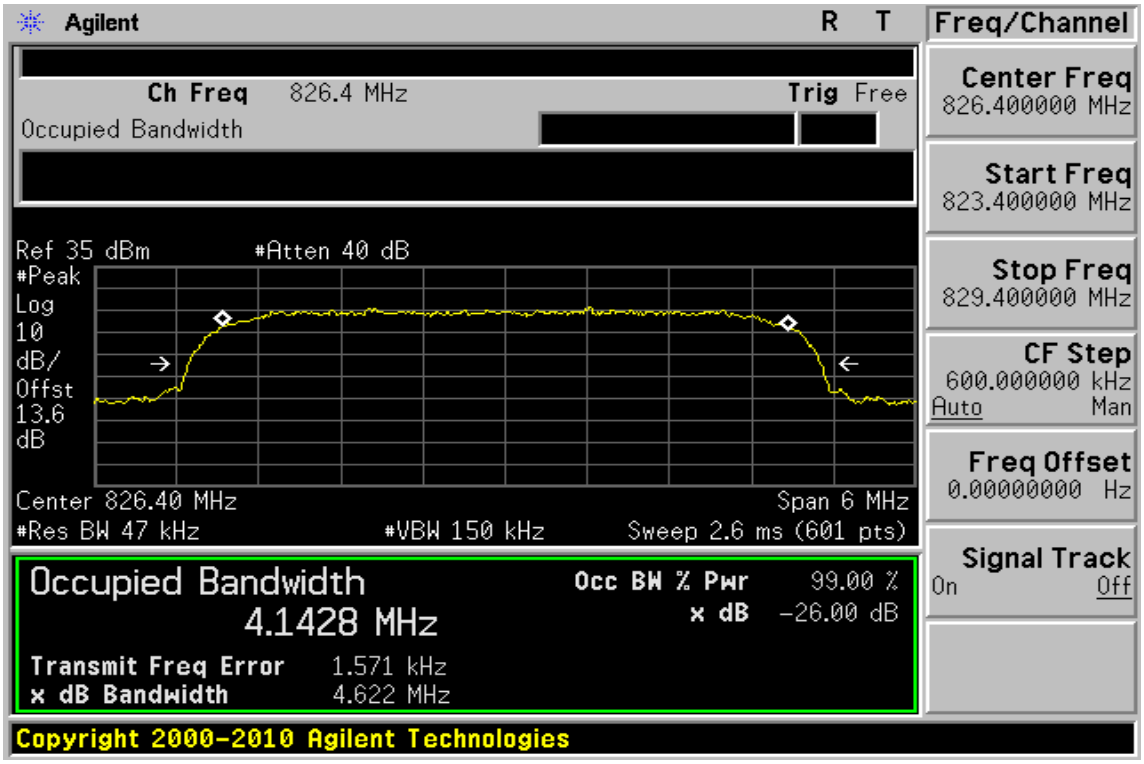
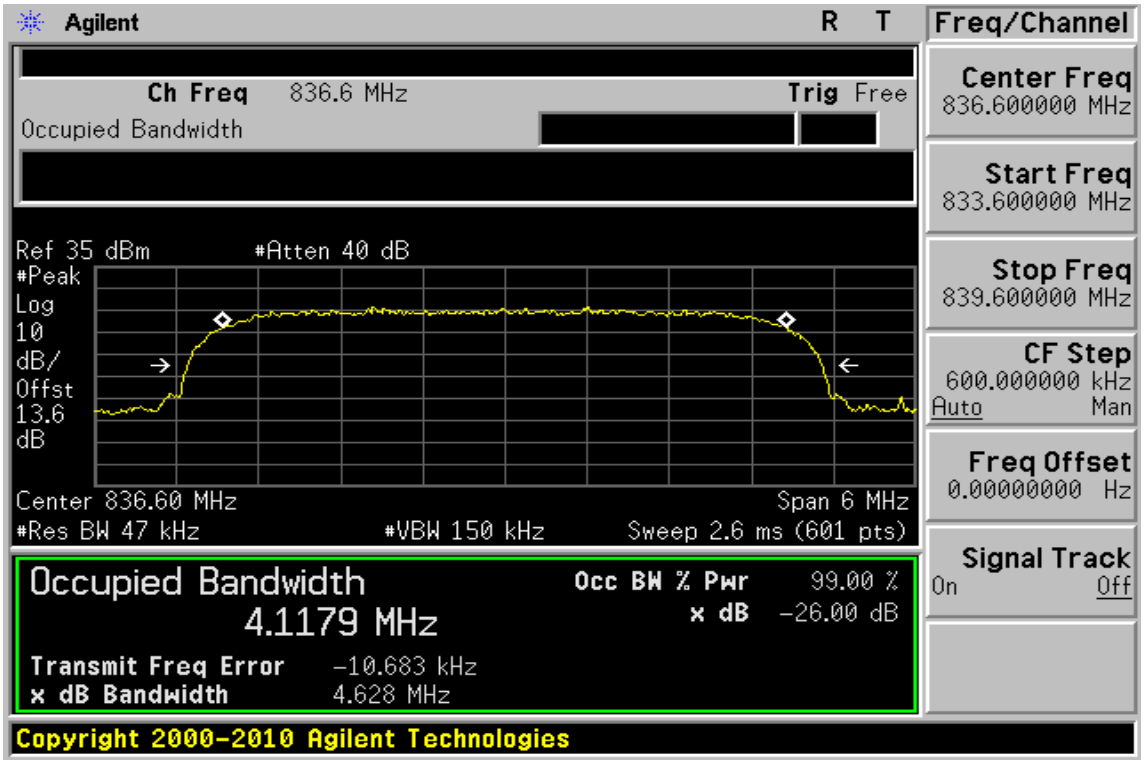


Figure 9-20: WCDMA V Channel Mid



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Figure 9-21: WCDMA V Channel High

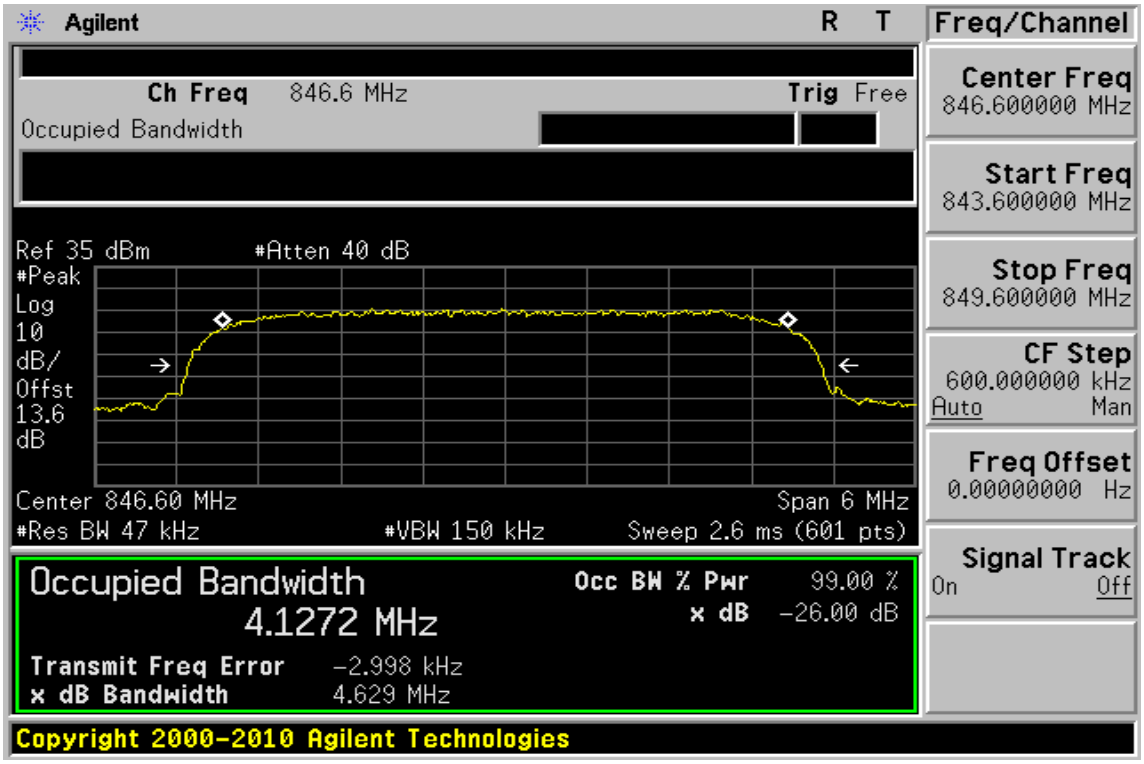
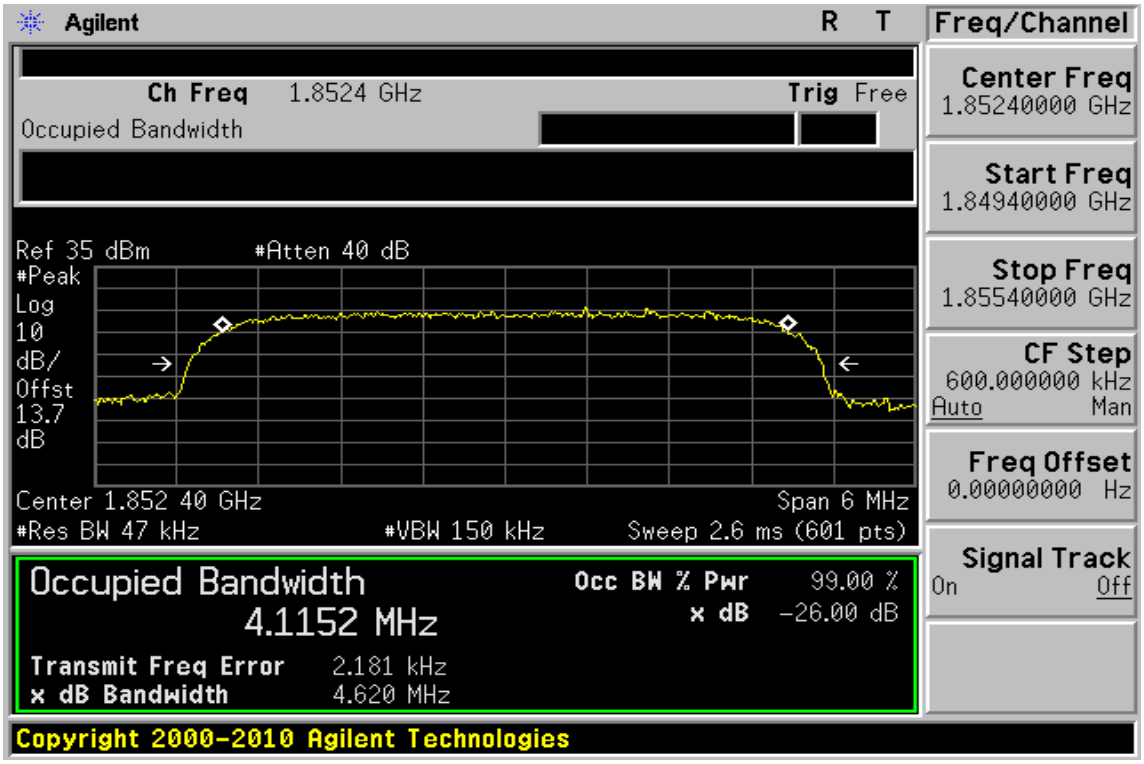


Figure 9-22: HSUPA II Channel Low



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Figure 9-23: HSUPA II Channel Mid

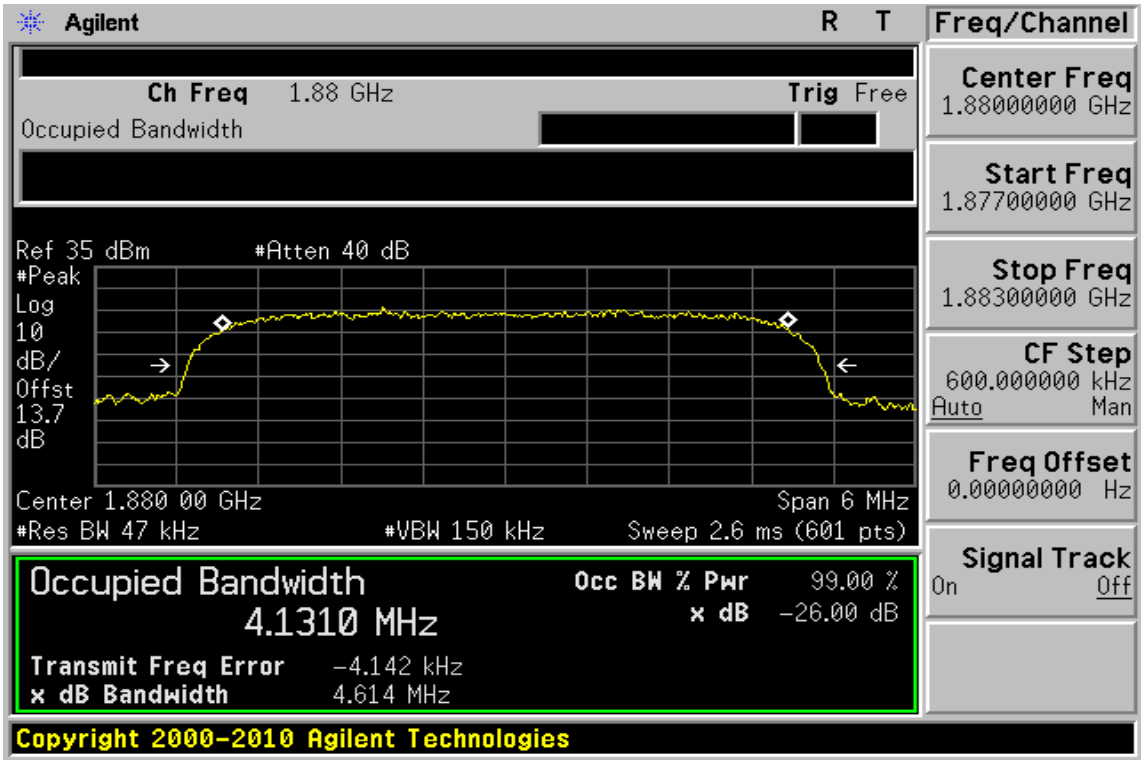
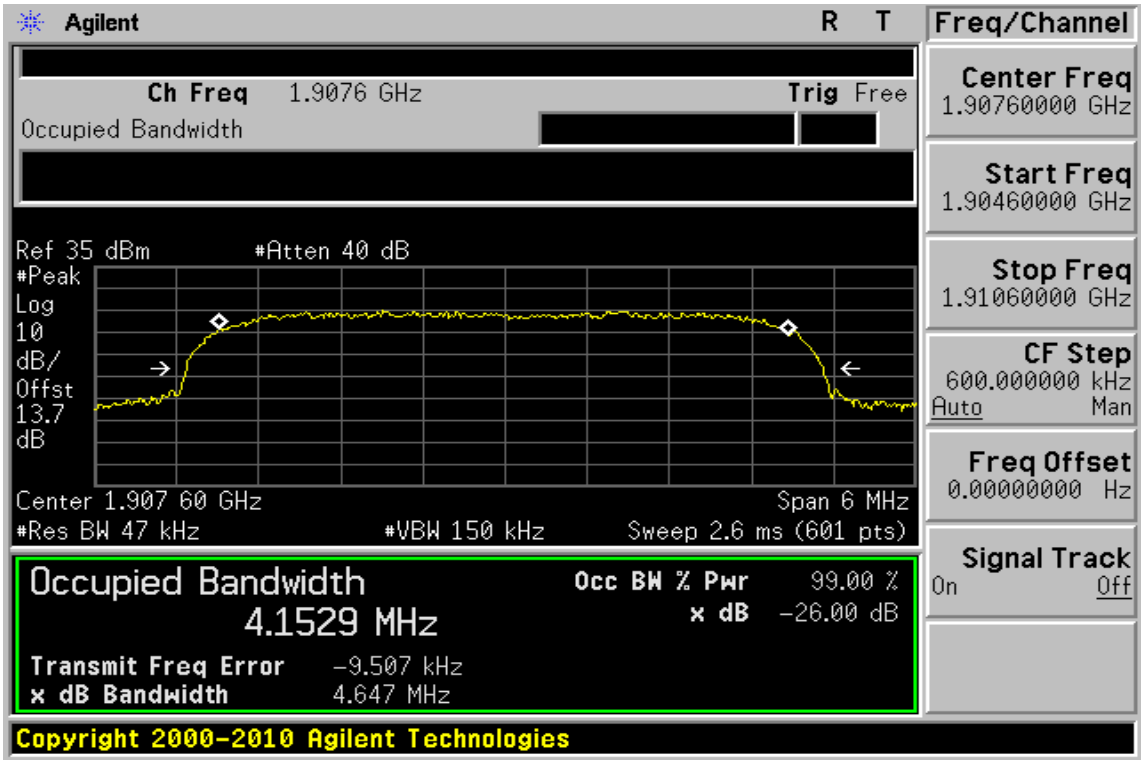


Figure 9-24: HSUPA II Channel High



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Figure 9-25: HSUPA IV Channel Low

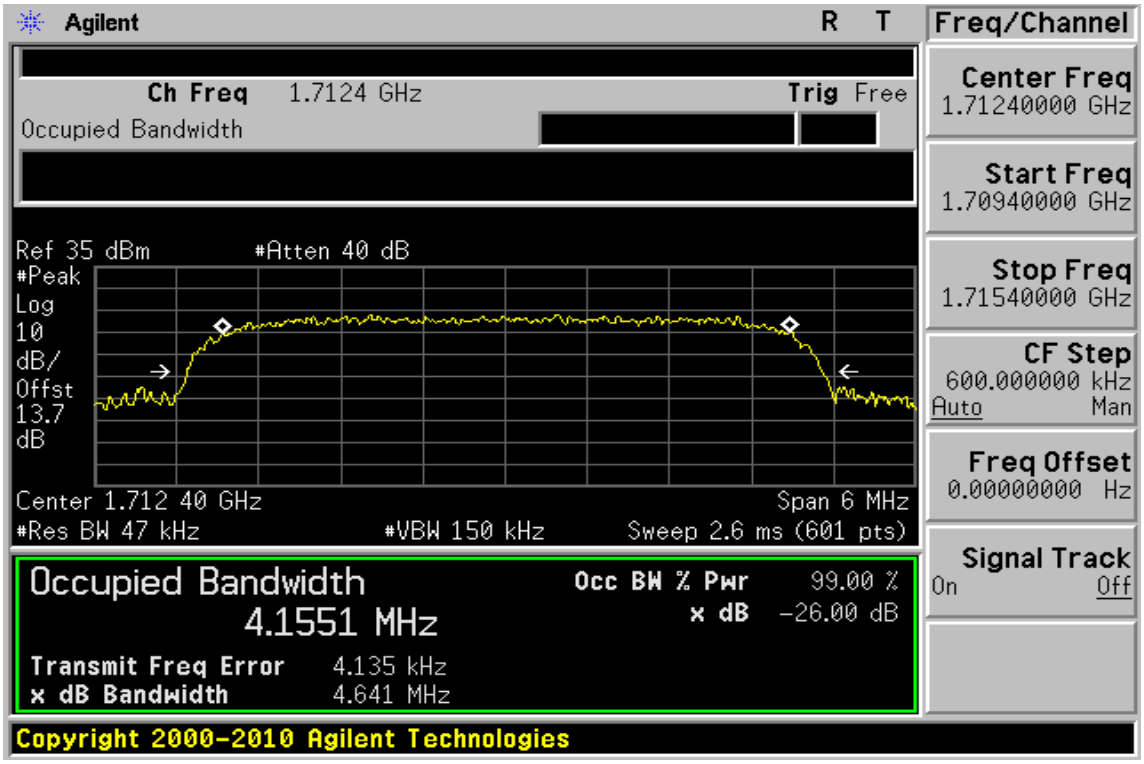
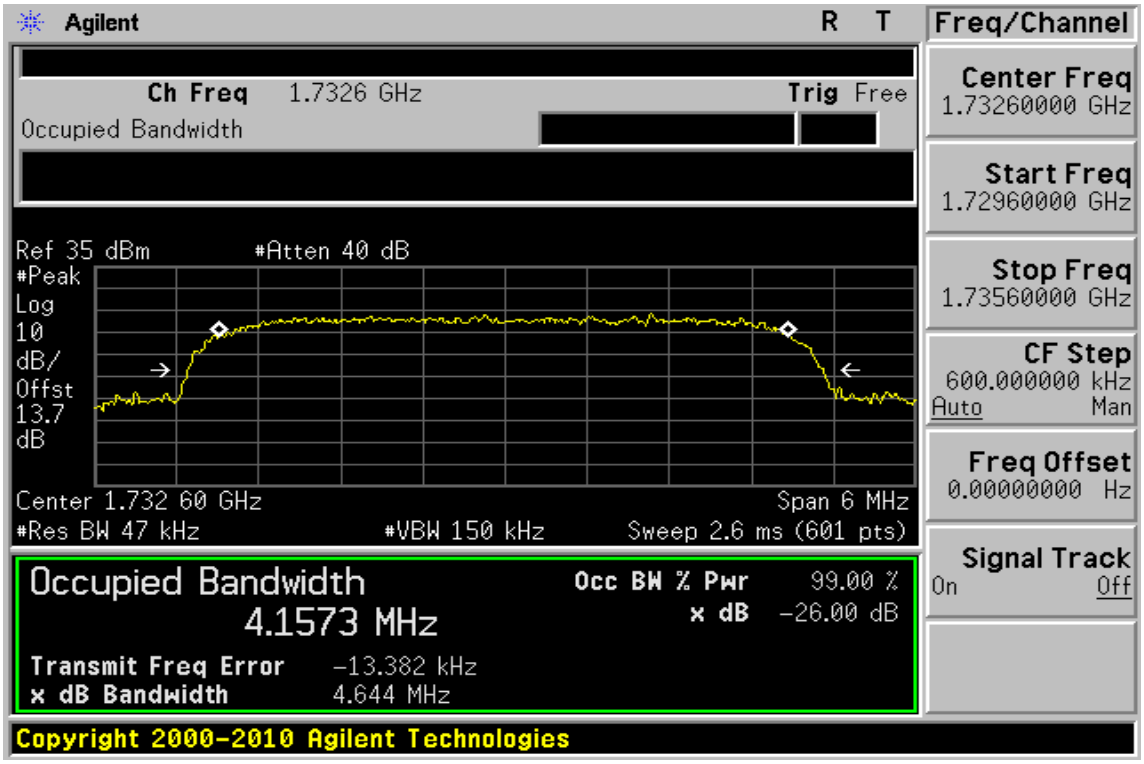


Figure 9-26 HSUPA IV Channel Mid



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Figure 9-27: HSUPA IV Channel High

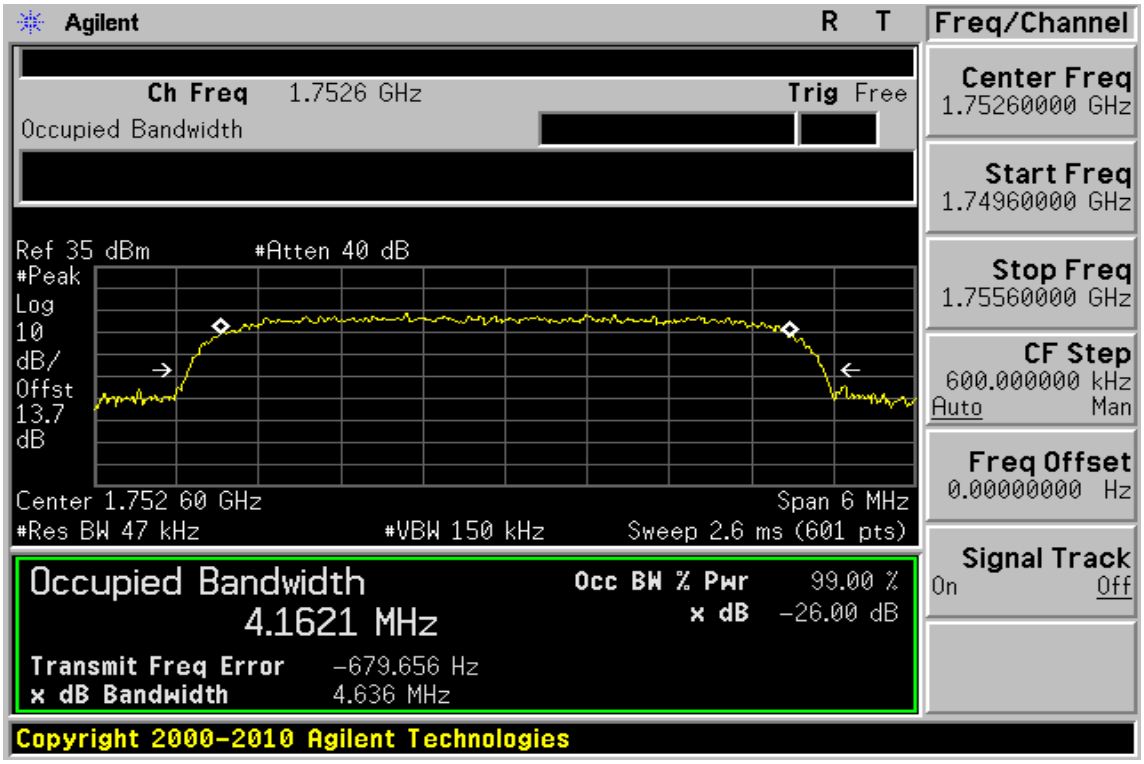
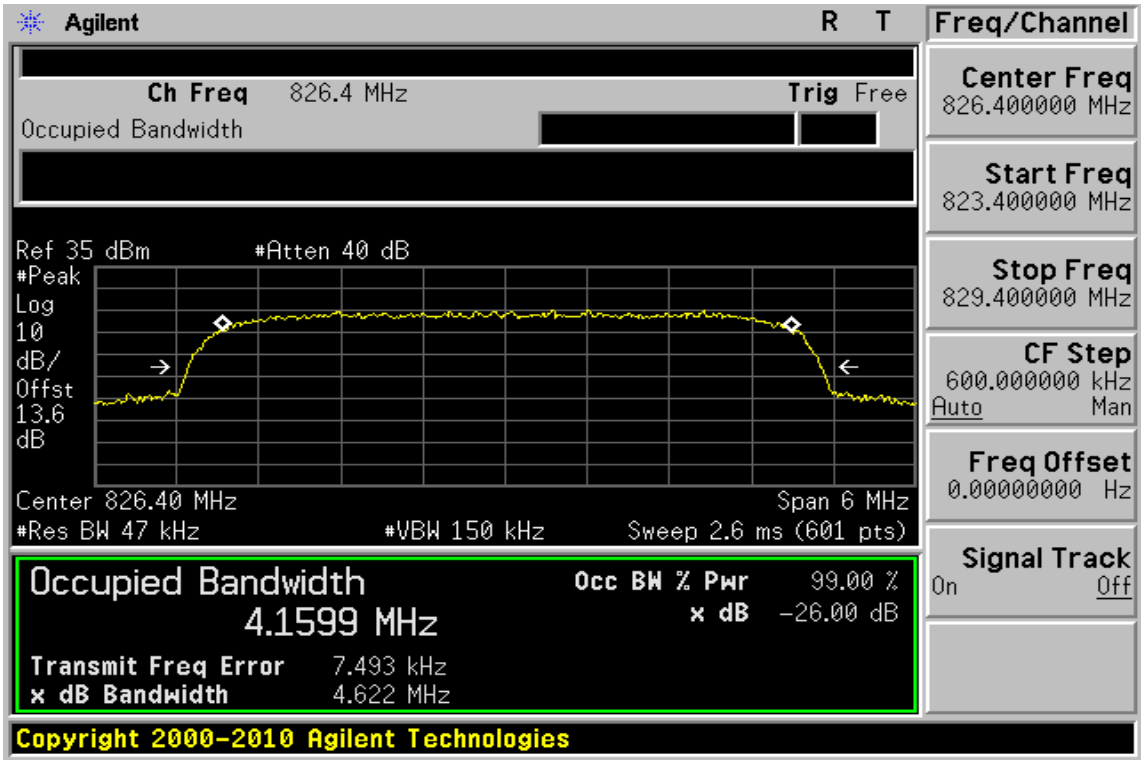


Figure 9-28: HSUPA V Channel Low



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Figure 9-29: HSUPA V Channel Mid

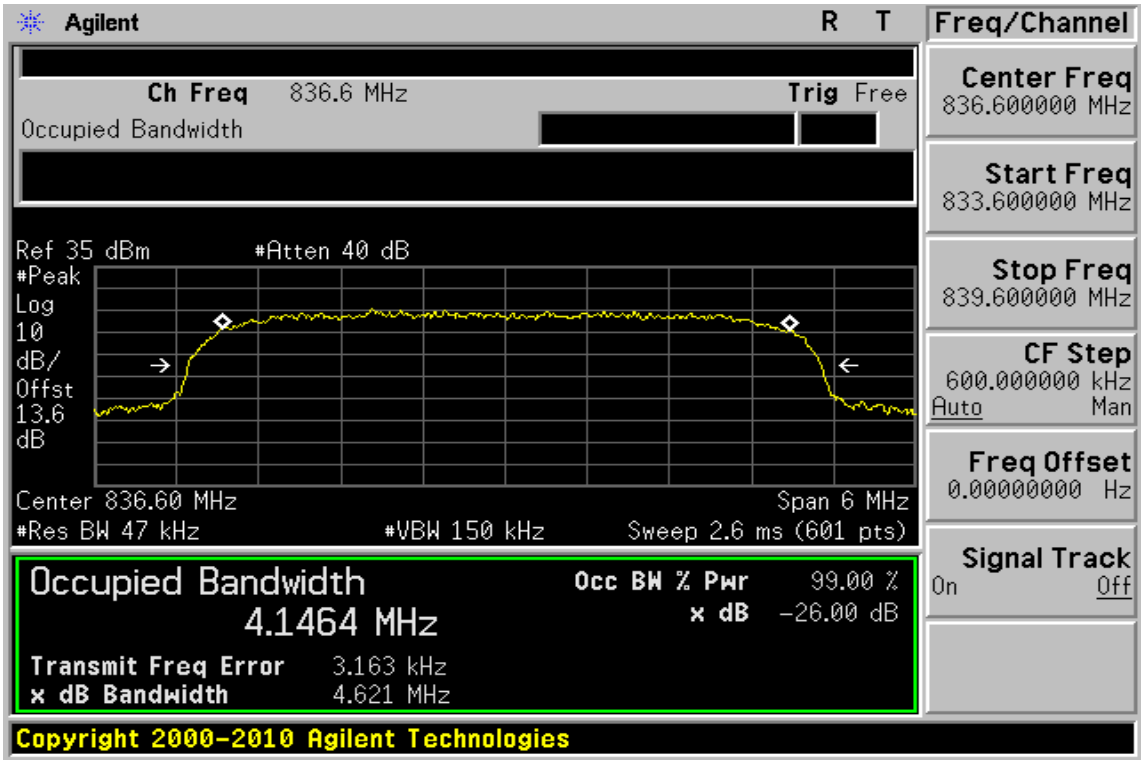
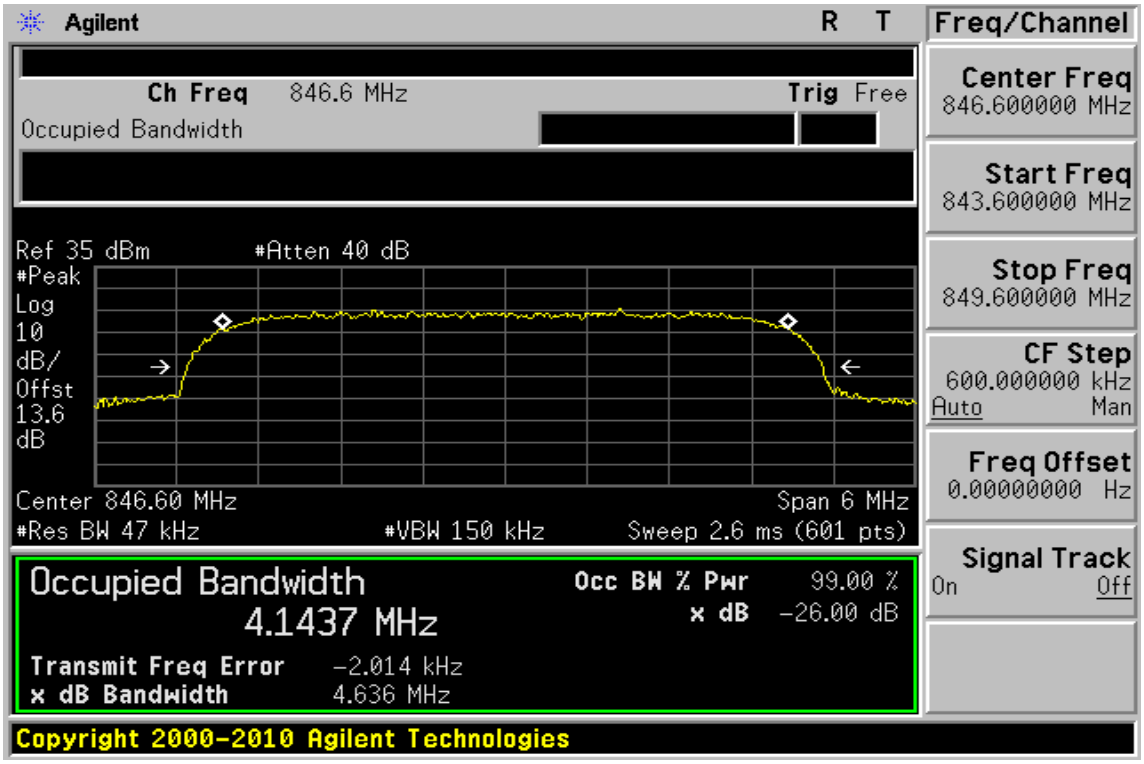


Figure 9-30: HSUPA V Channel High



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Figure 9-31: HSDPA II Channel Low

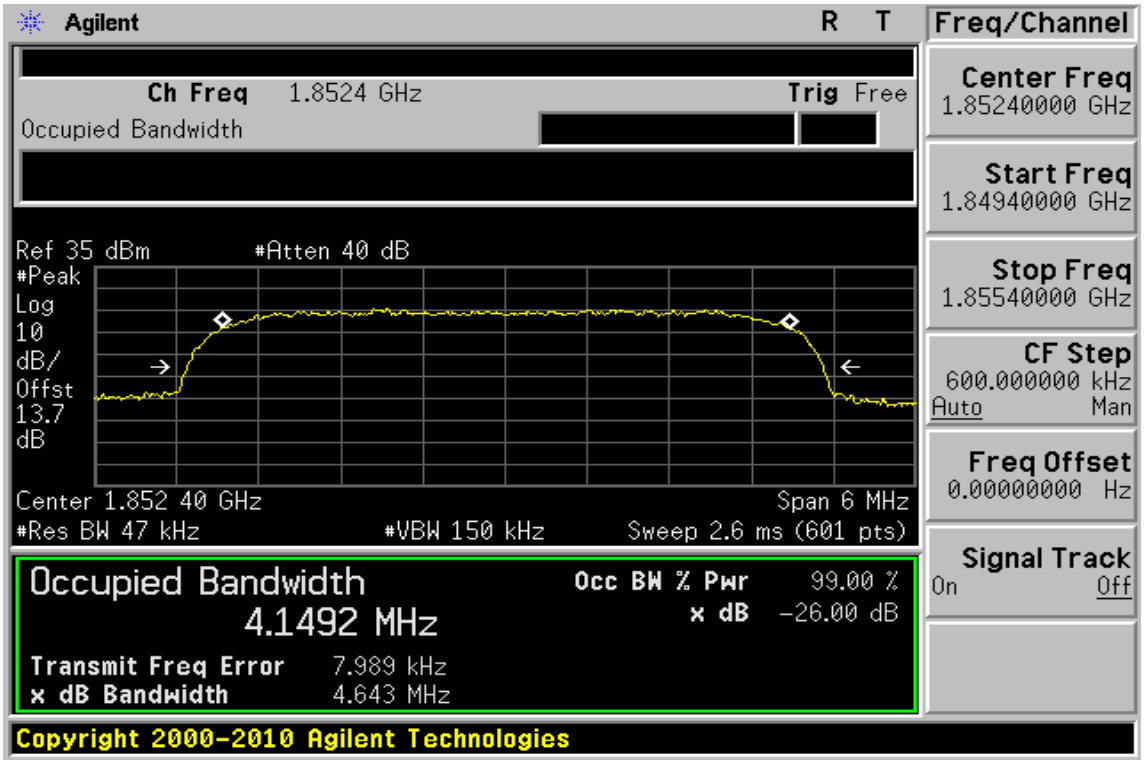
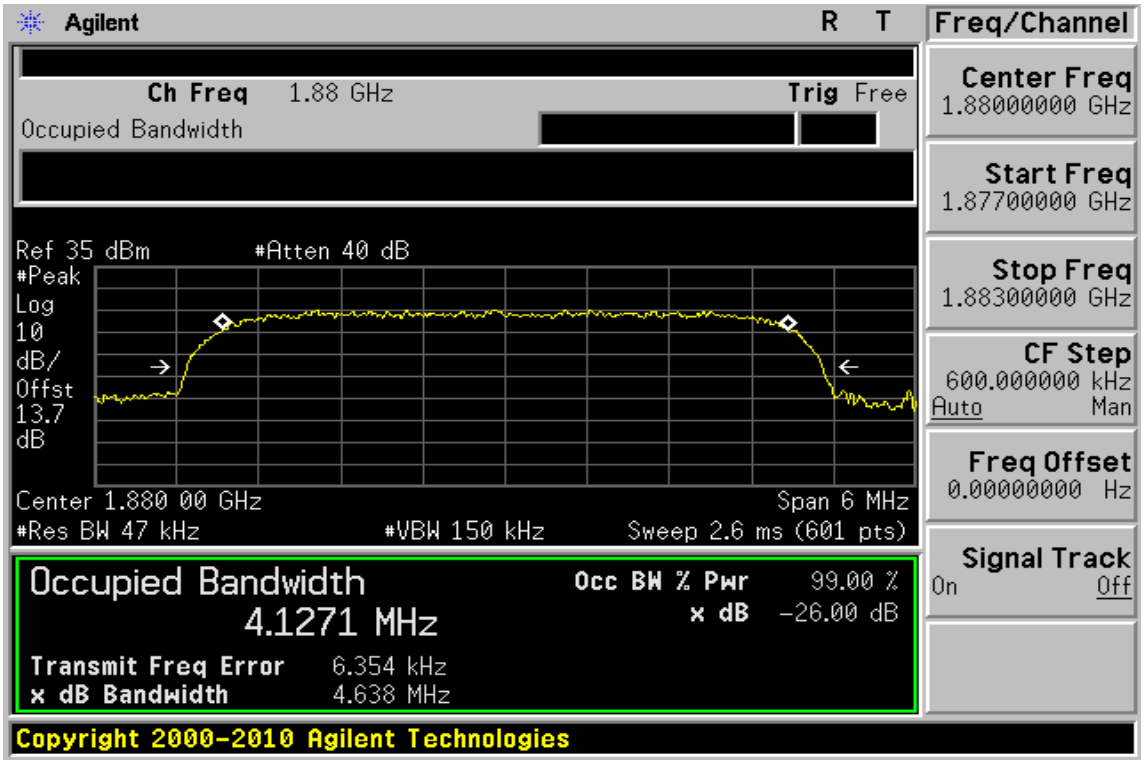


Figure 9-31: HSDPA II Channel Mid



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Figure 9-33: HSDPA II Channel High

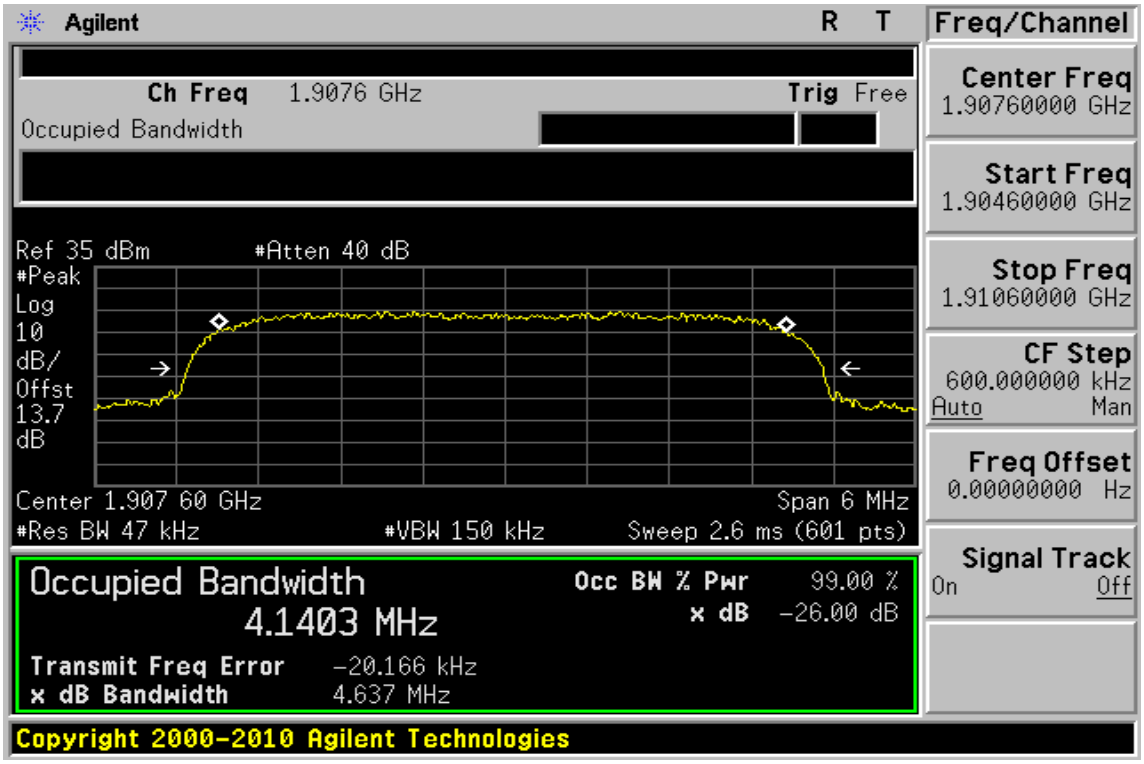
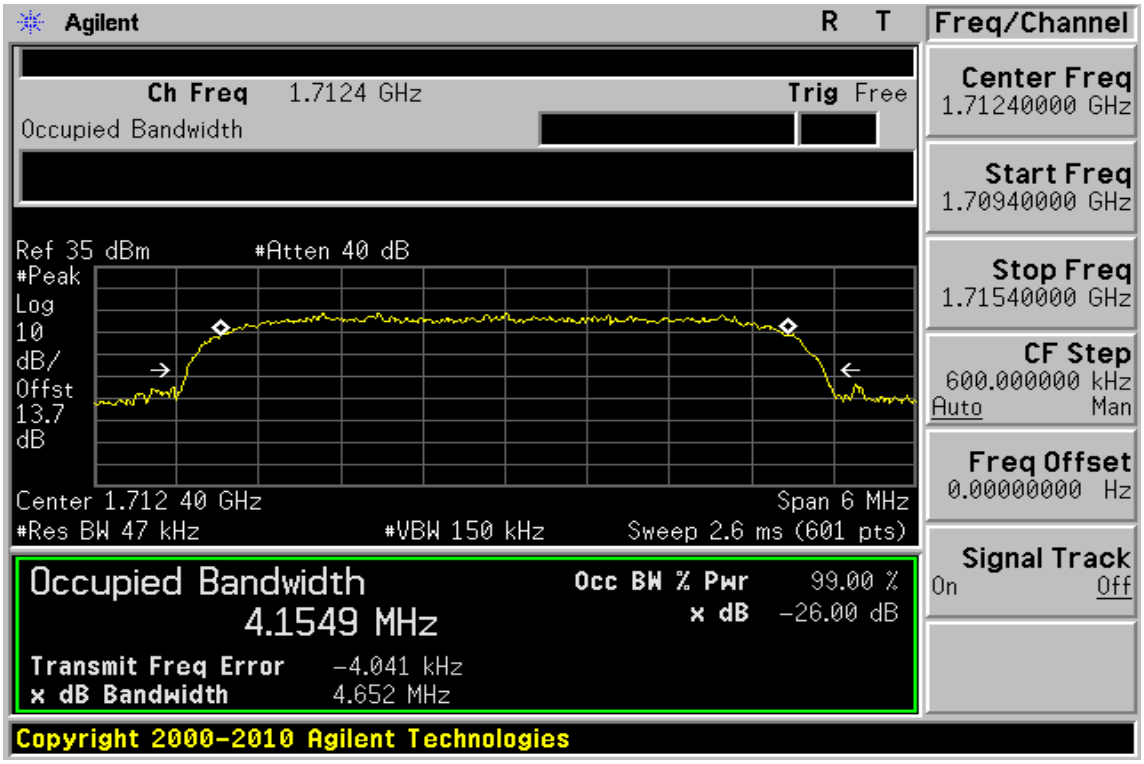


Figure 9-34: HSDPA IV Channel Low



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Figure 9-35 HSDPA IV Channel Mid

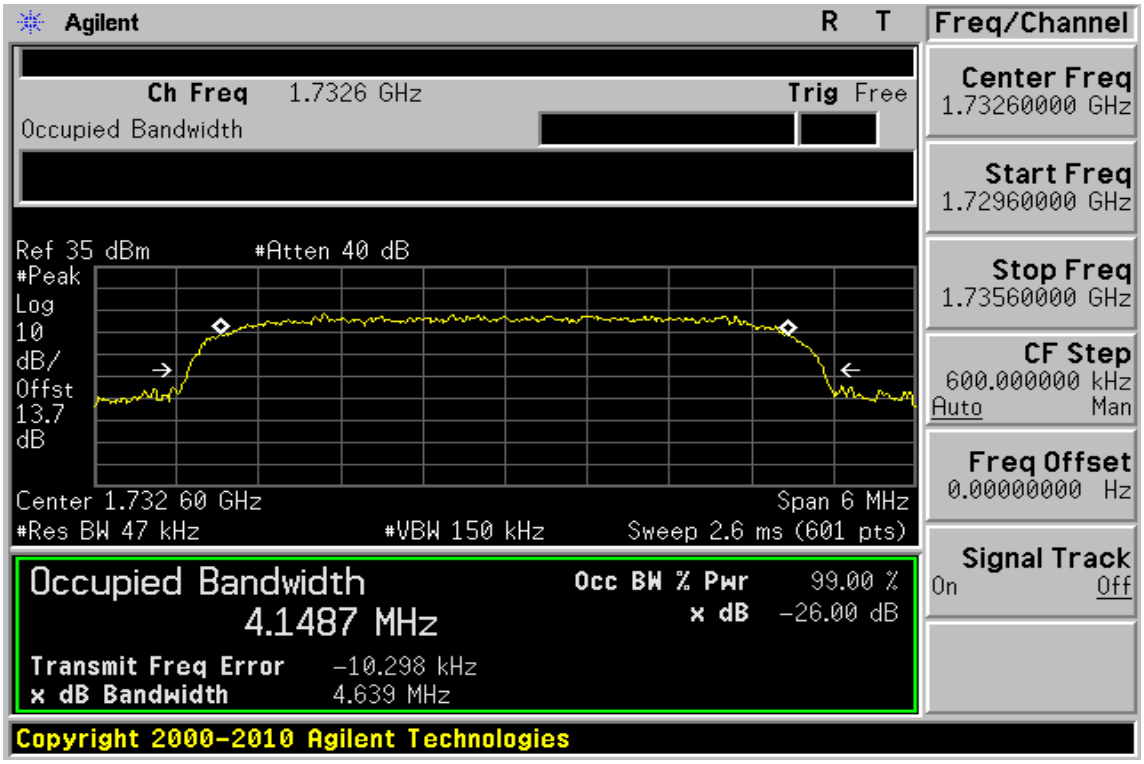
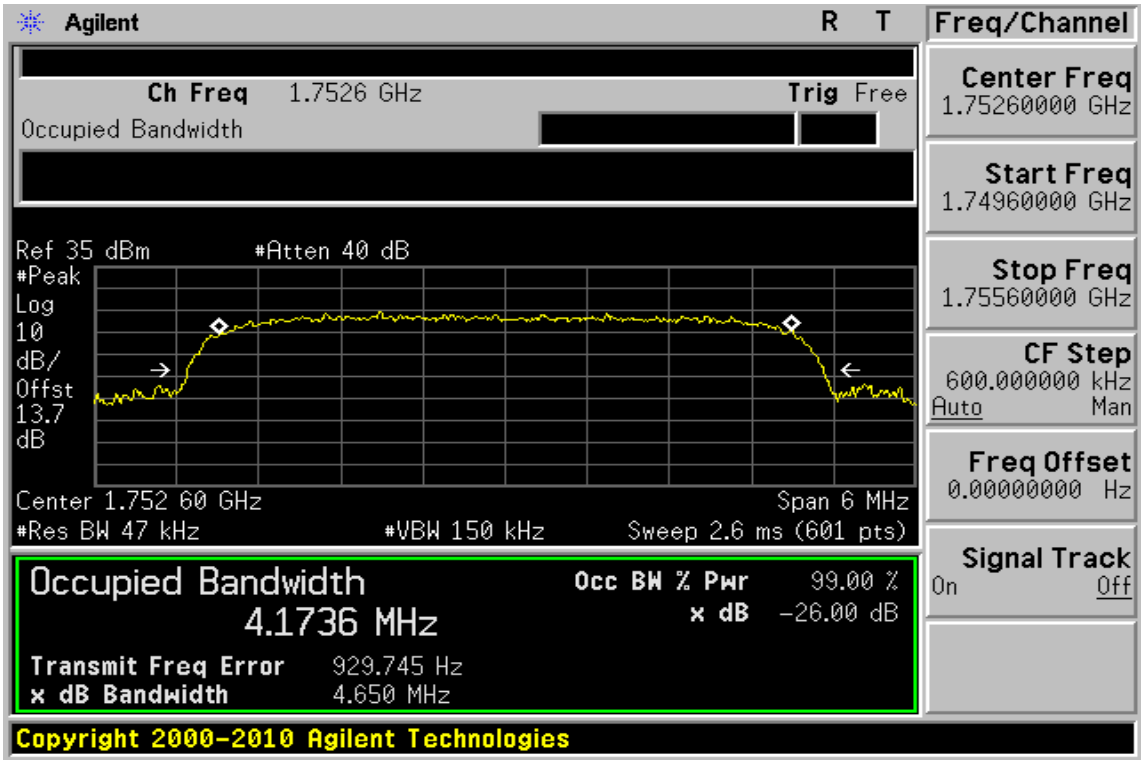


Figure 9-36: HSDPA IV Channel High



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Figure 9-37: HSDPA V Channel Low

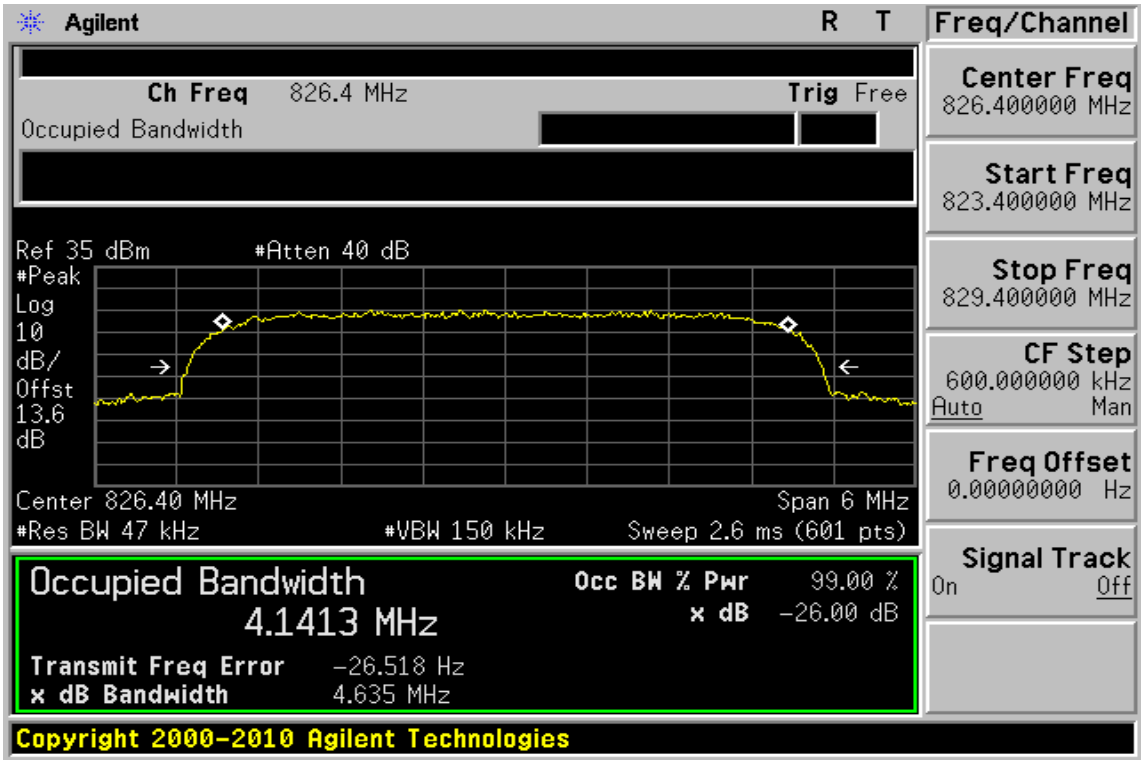
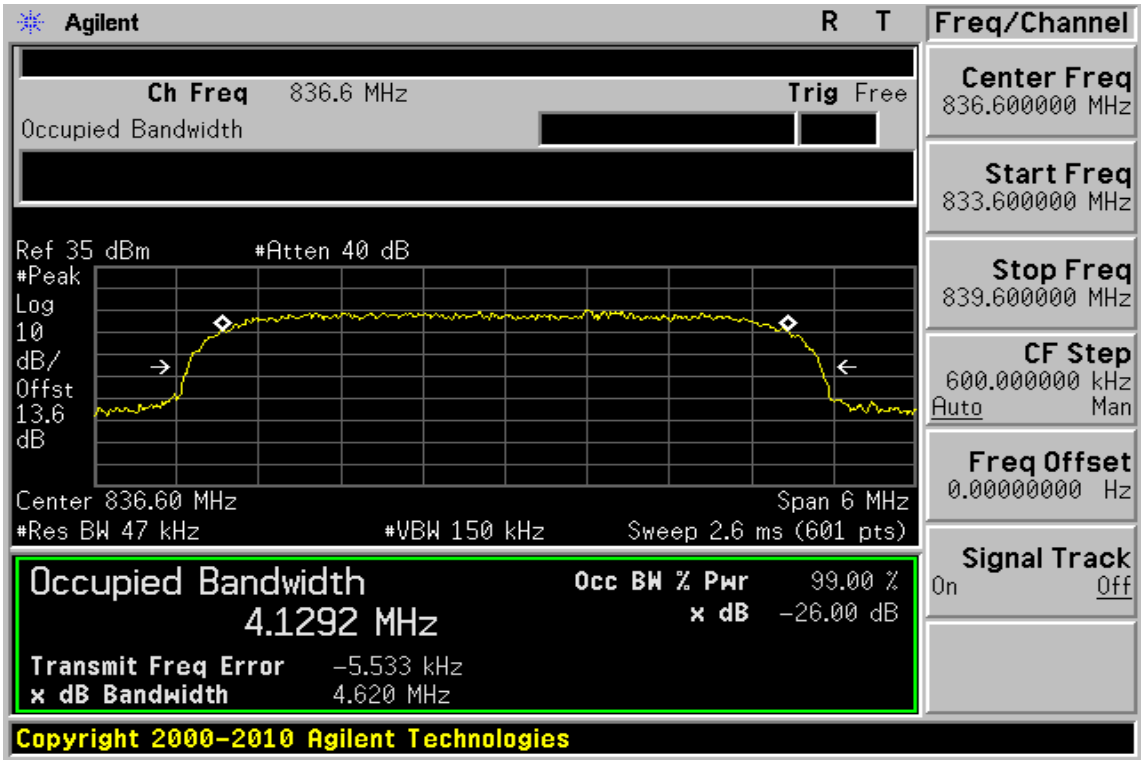


Figure 9-38: HSDPA V Channel Mid



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Figure 9-39: HSDPA V Channel High

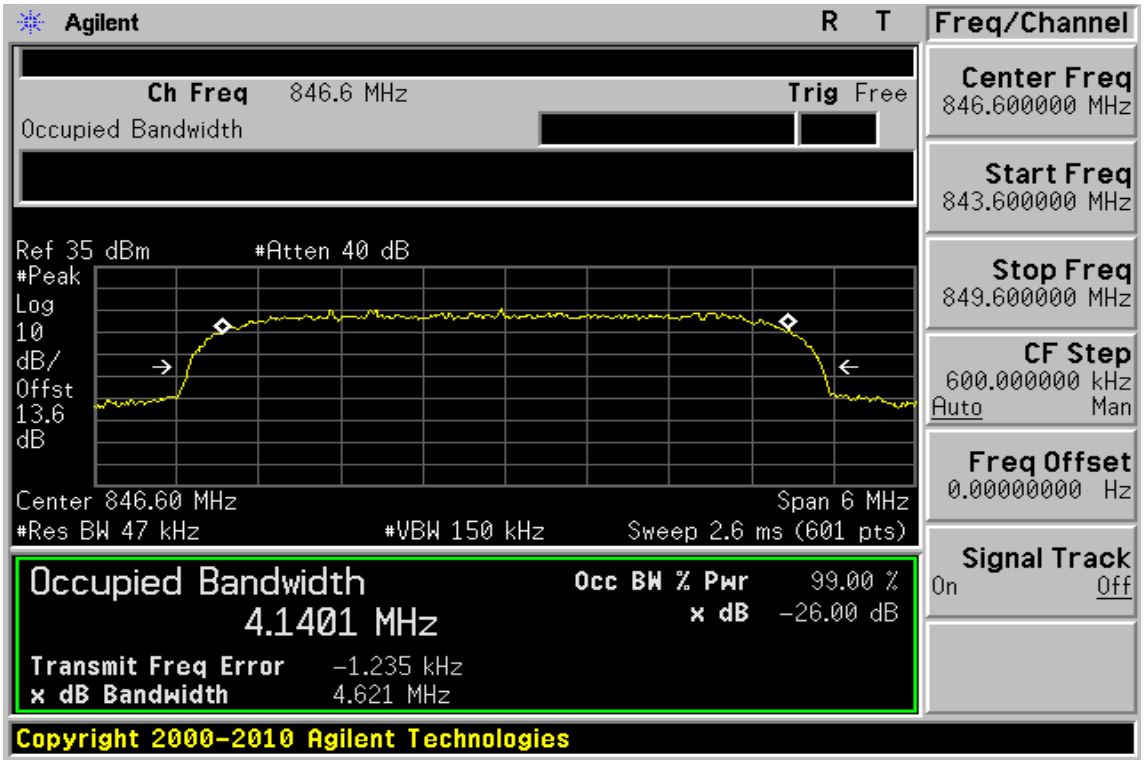
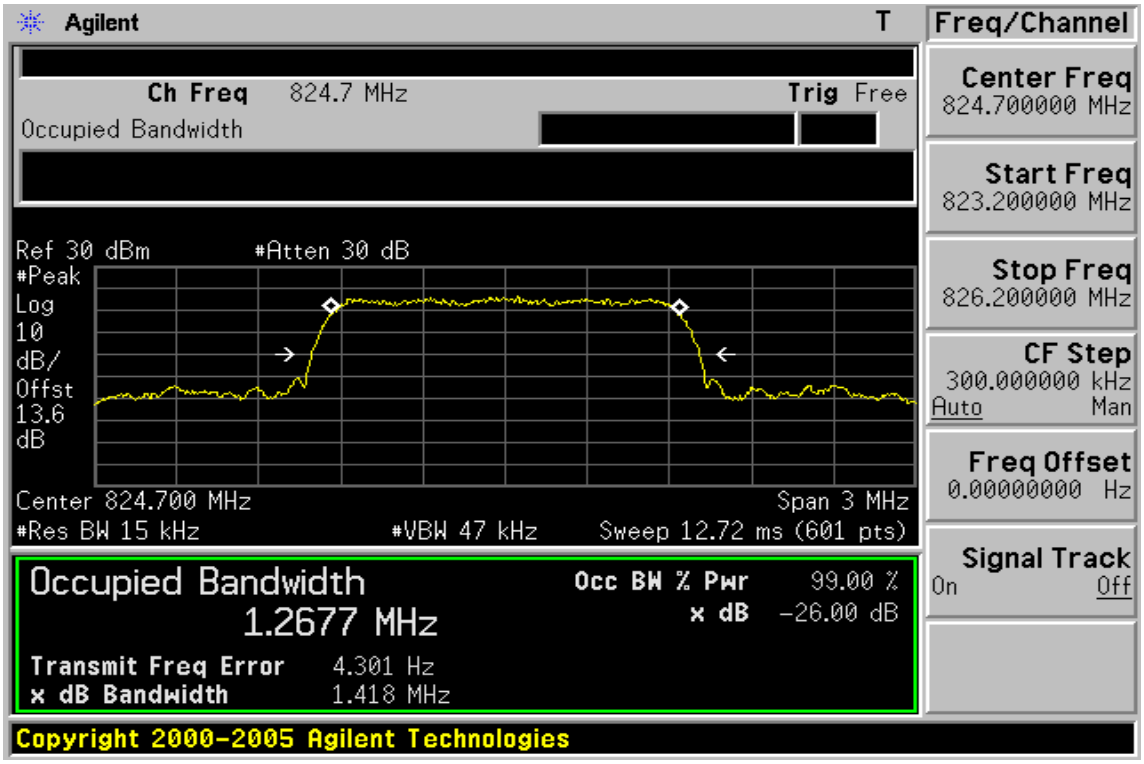


Figure 9-40: CDMA 2000 Cellular Channel Low



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Figure 9-41: CDMA 2000 Cellular Channel Mid

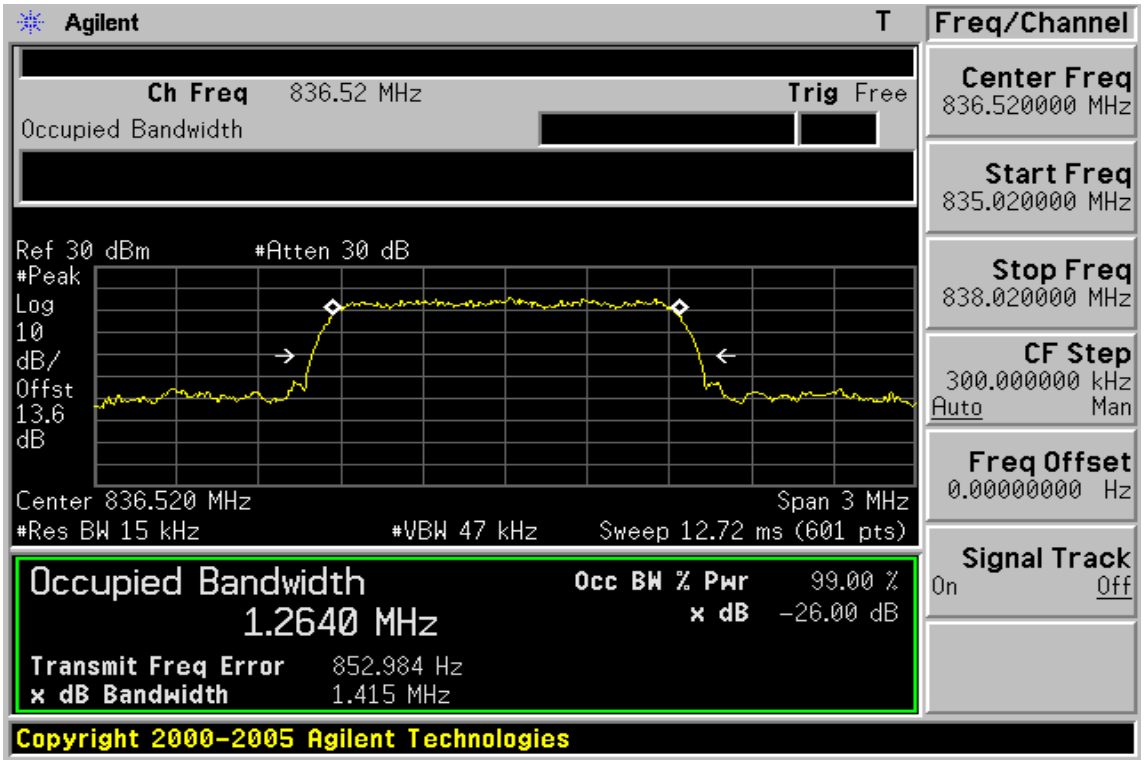
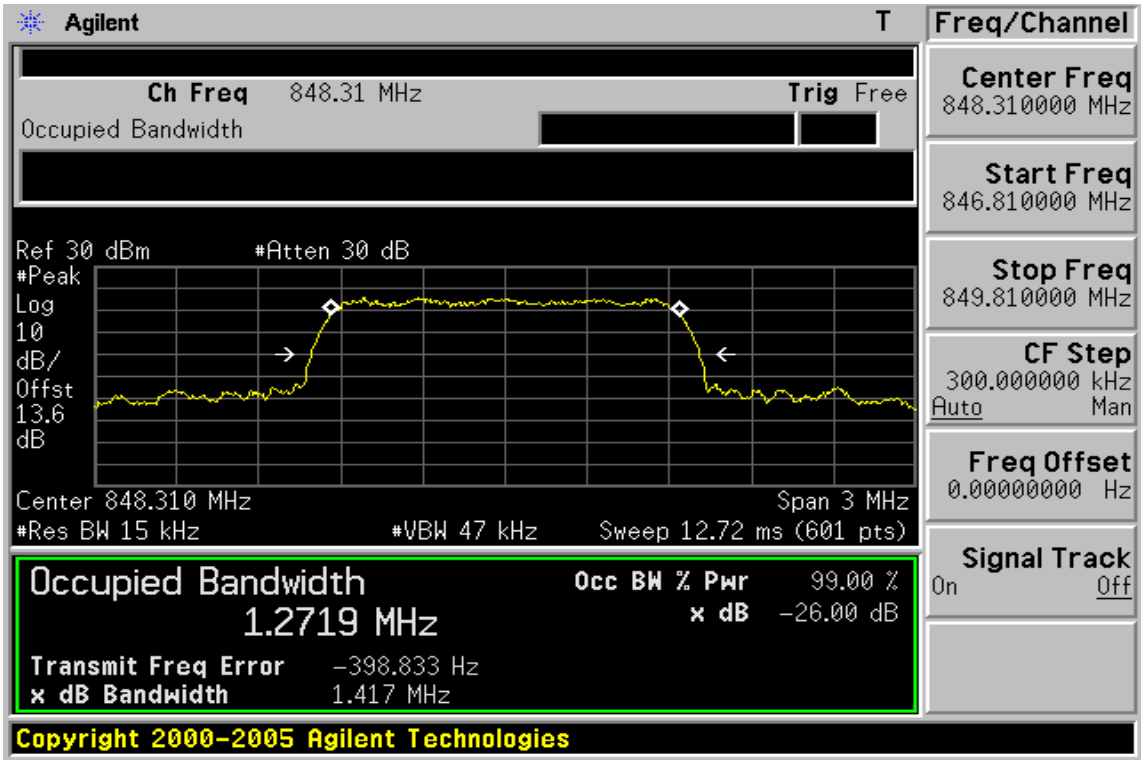


Figure 9-42: CDMA 2000 Cellular Channel High



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Figure 9-43: CDMA 2000 PCS Channel Low

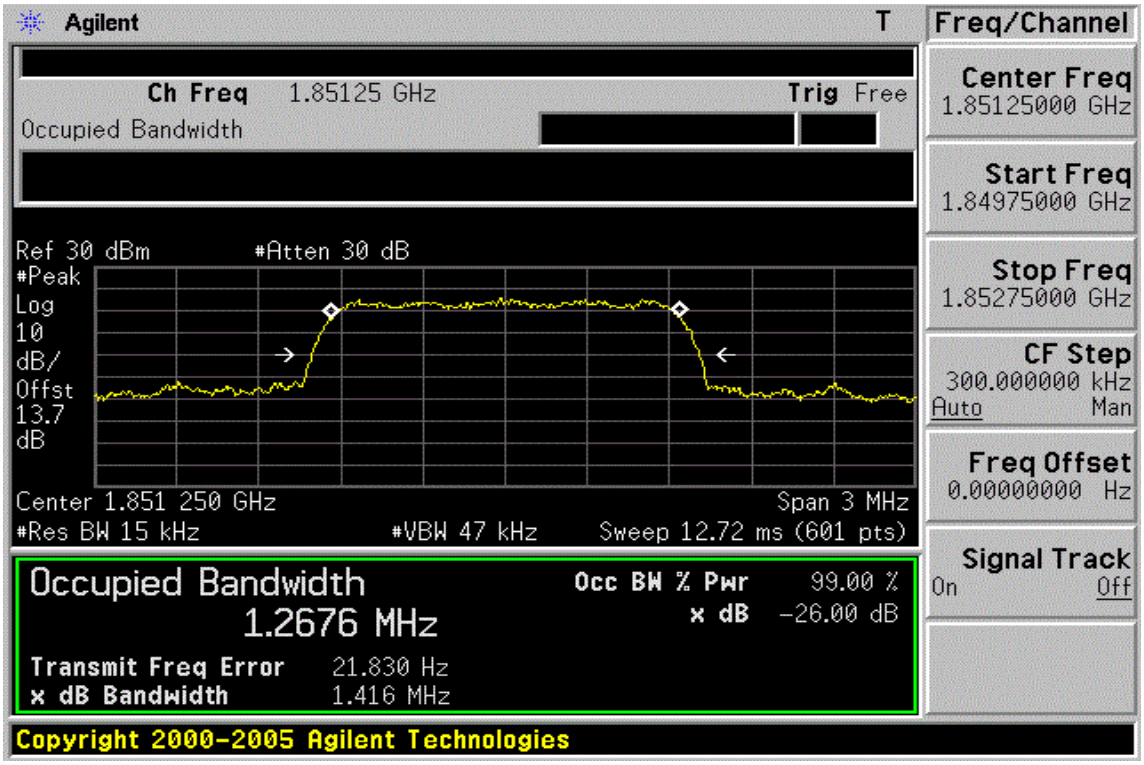
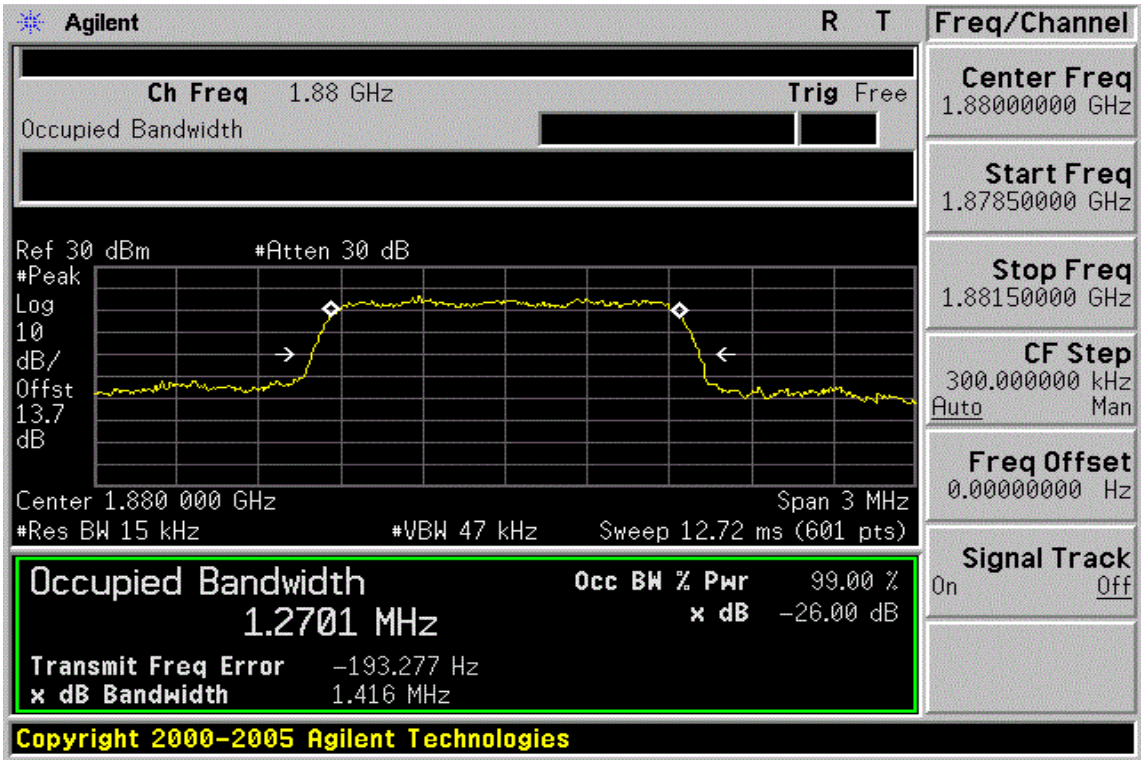


Figure 9-44: CDMA 2000 PCS Channel Mid



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Figure 9-45: CDMA 2000 PCS Channel High

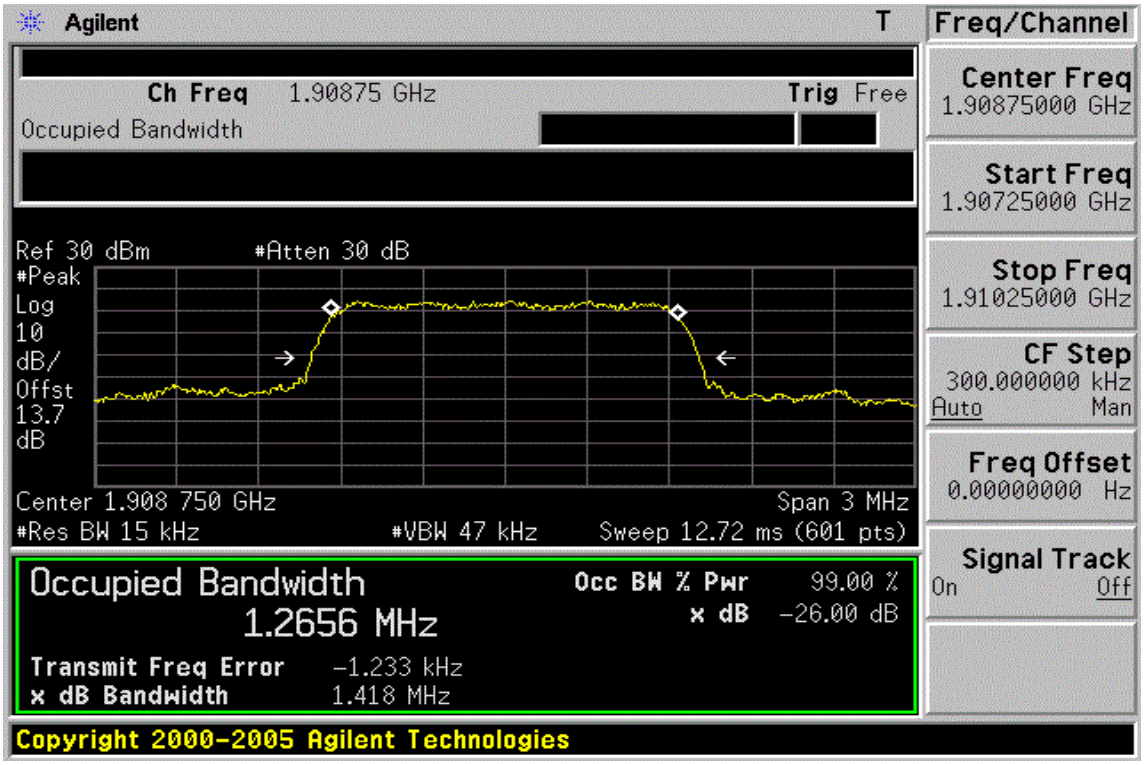
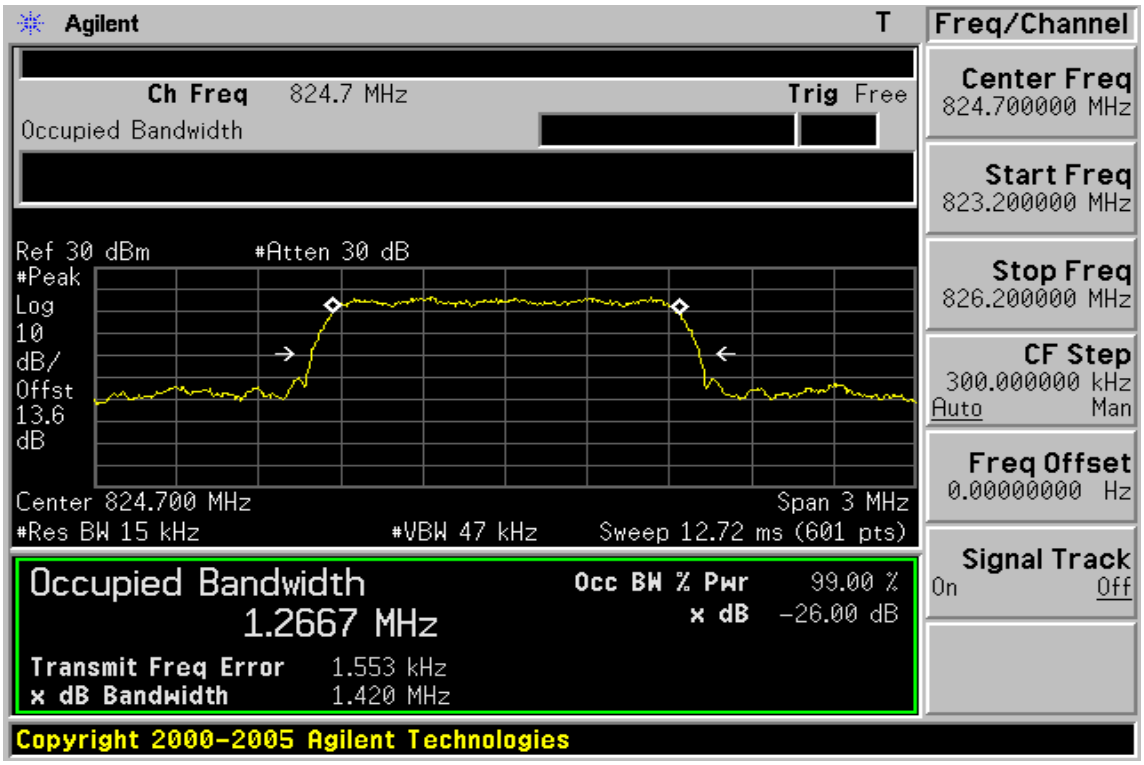


Figure 9-46: CDMA 2000 EVDO Cellular Channel Low



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Figure 9-47: CDMA 2000 EVDO Cellular Channel Mid

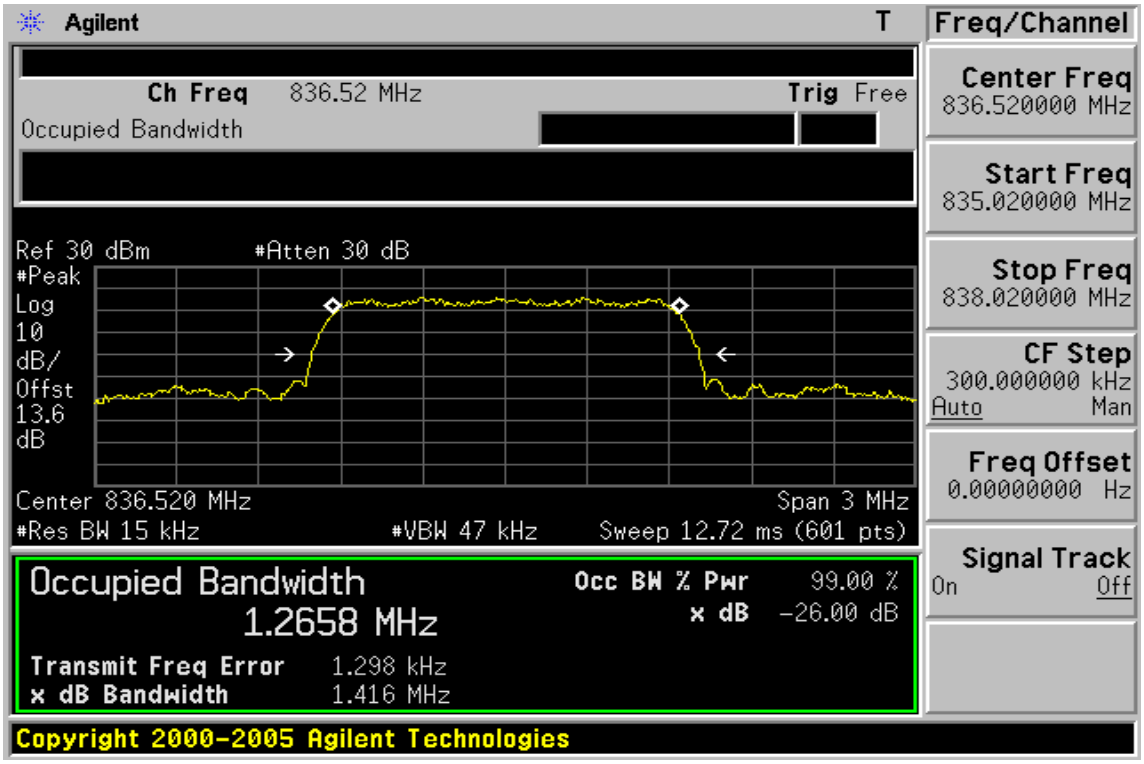
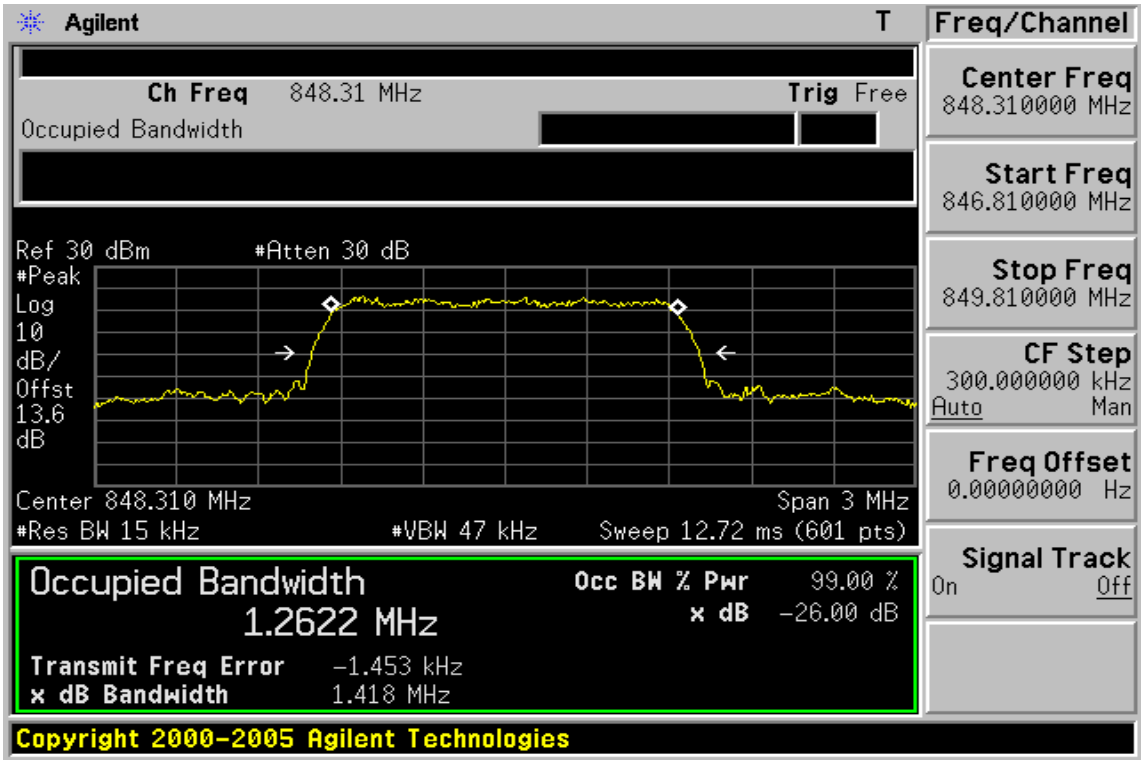


Figure 9-48: CDMA 2000 EVDO Cellular Channel High



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Figure 9-49: CDMA 2000 EVDO PCS Channel Low

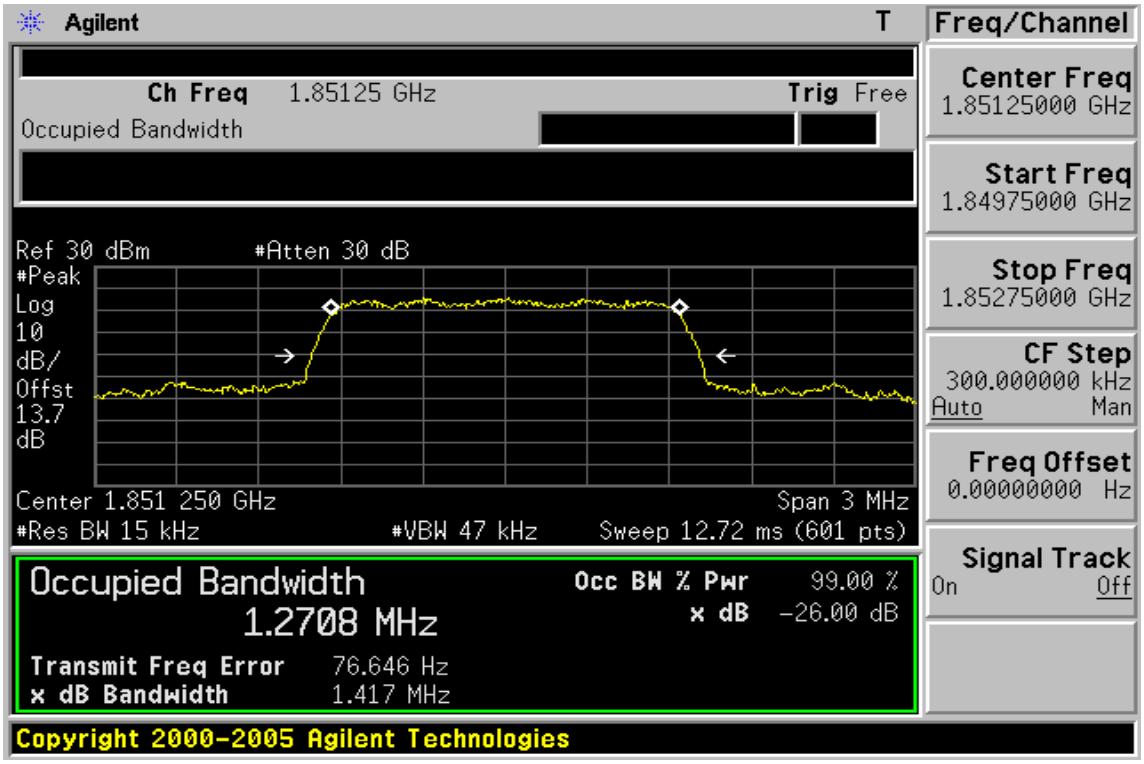
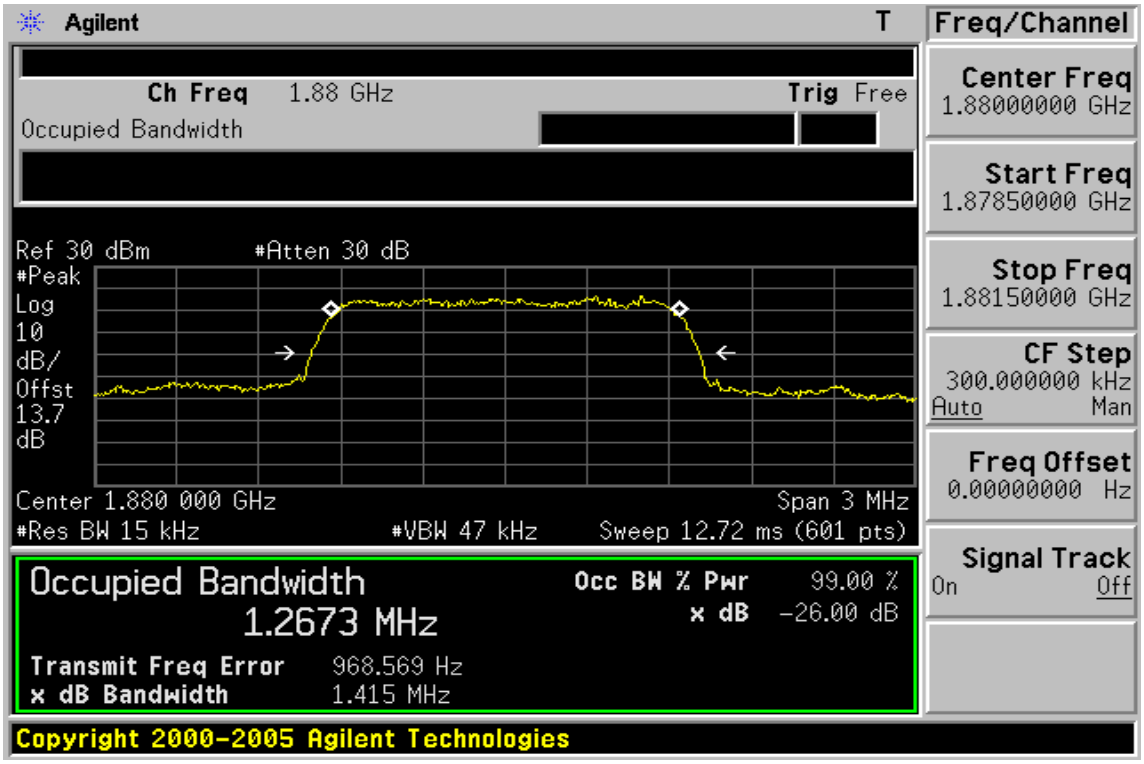


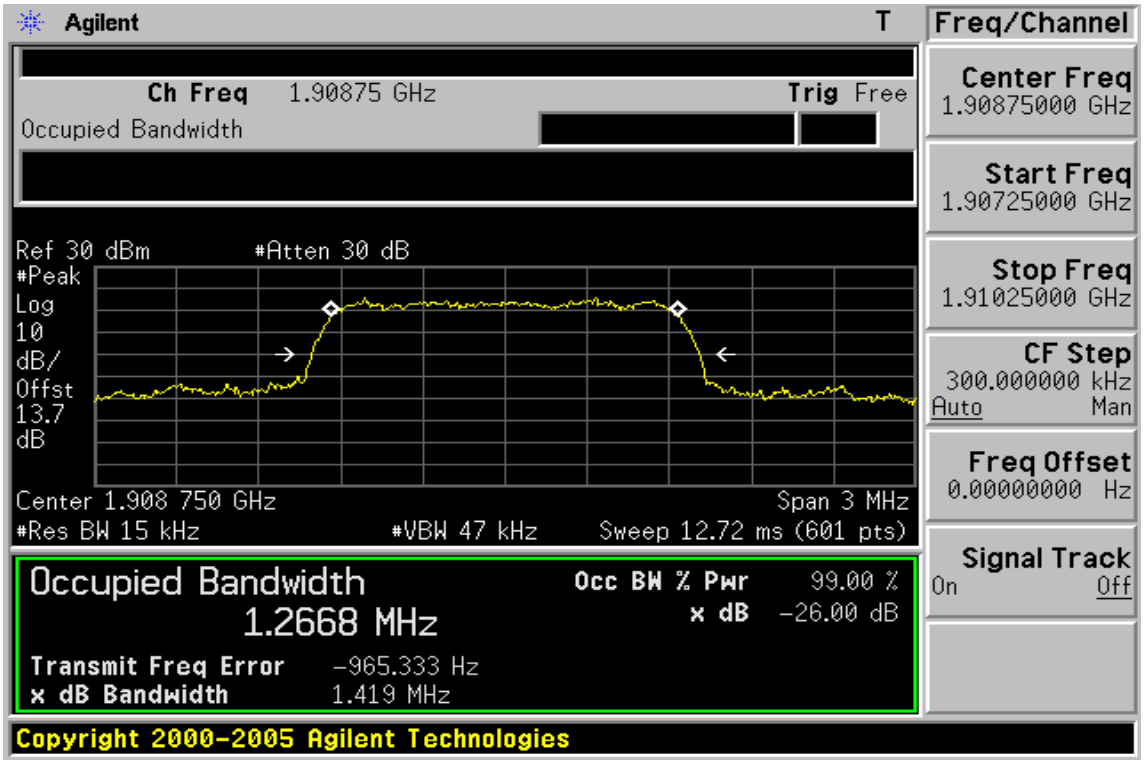
Figure 9-50: CDMA 2000 EVDO PCS Channel Mid



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Figure 9-51: CDMA 2000 EVDO PCS Channel High



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20dB Bandwidth Test Data

Figure 9-52: GPRS 850 Channel Low

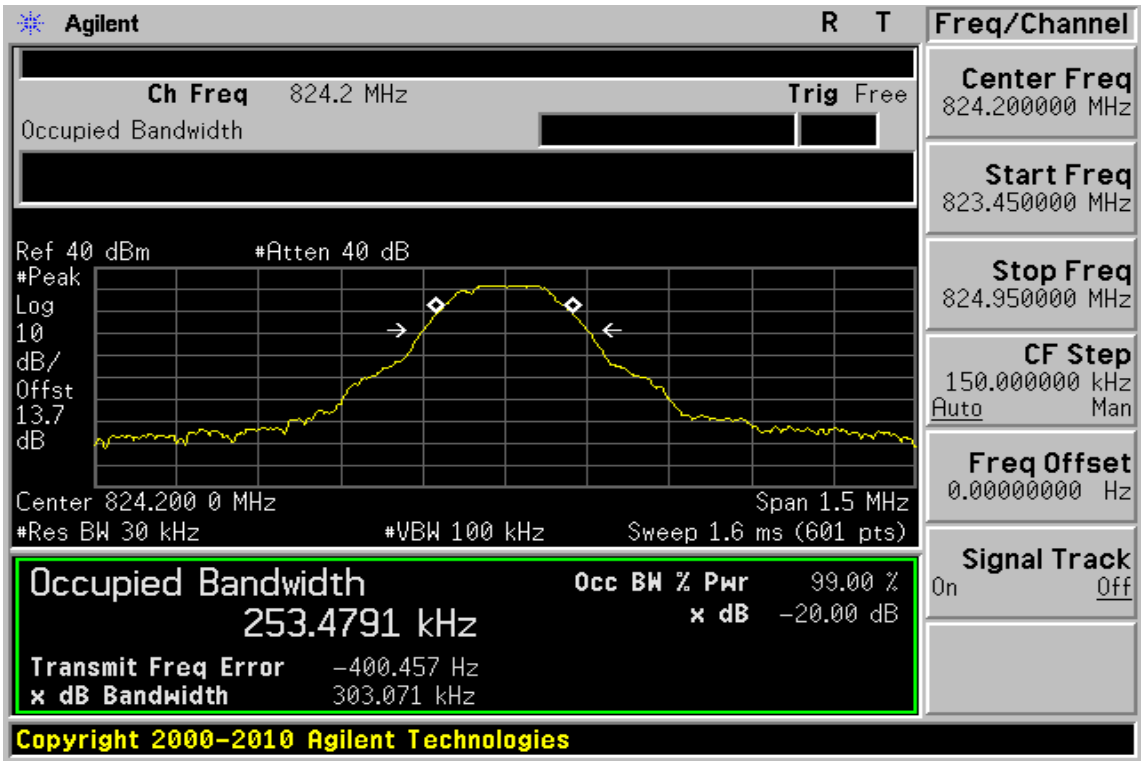
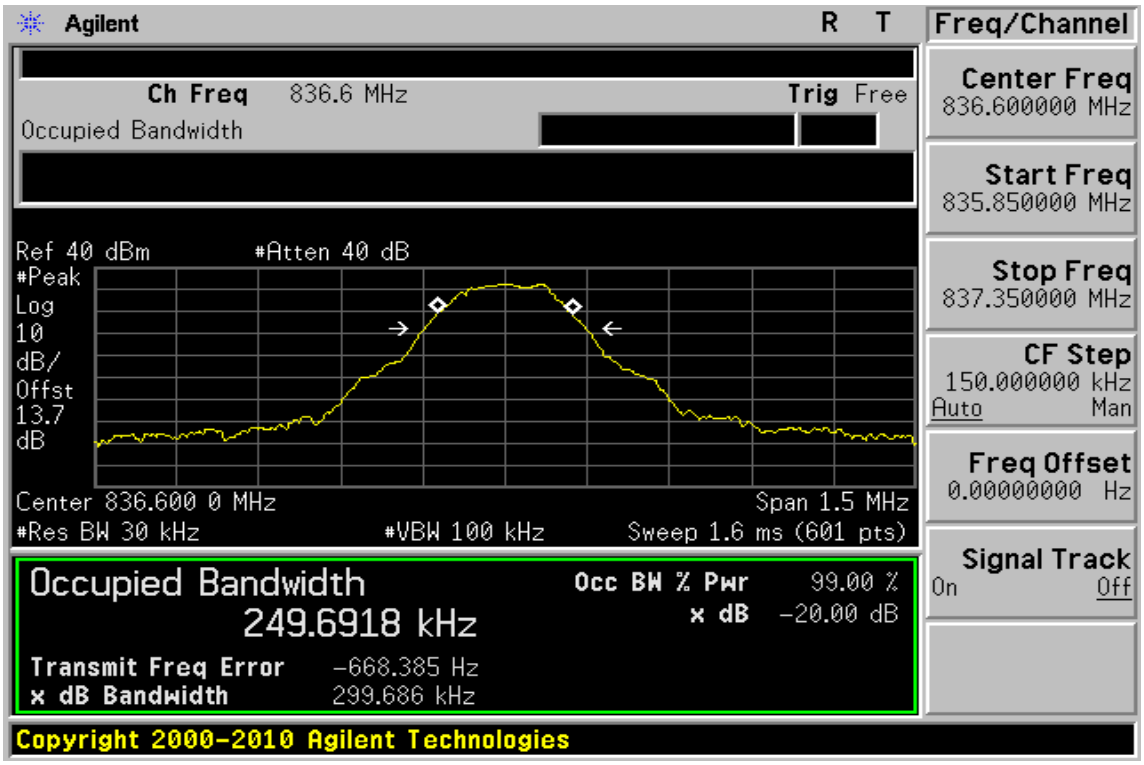


Figure 9-53: GPRS 850 Channel Mid



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Figure 9-54: GPRS850 Channel High

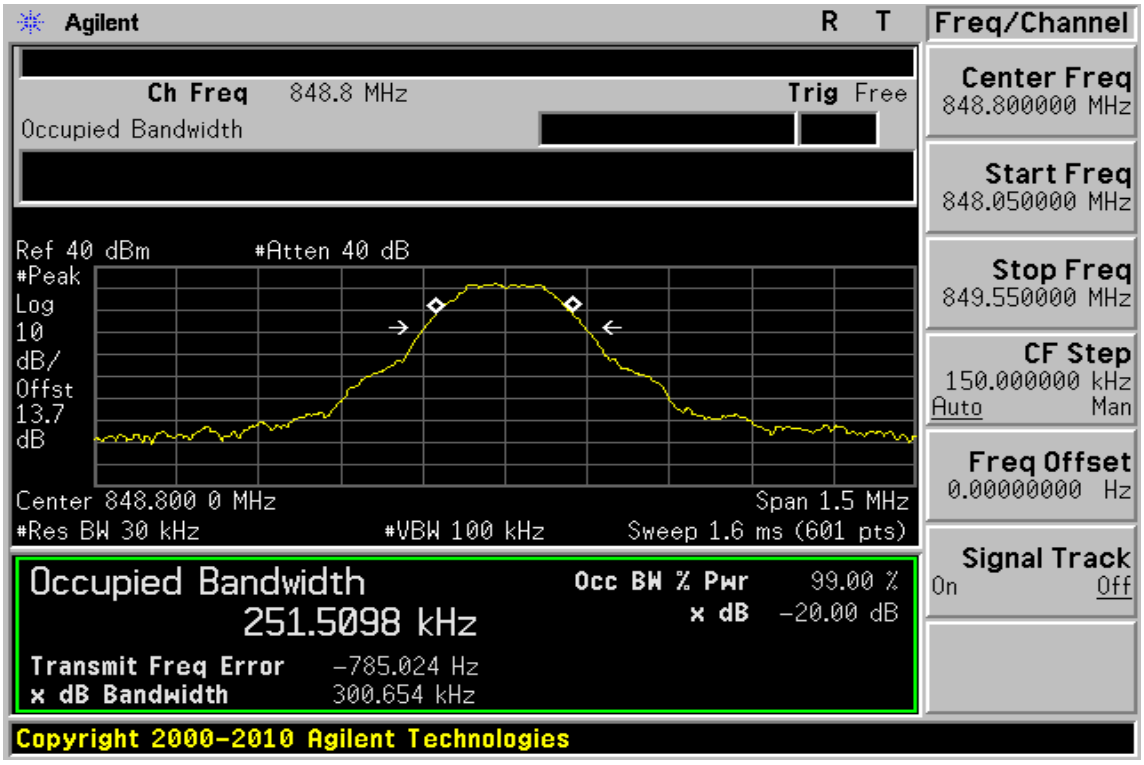
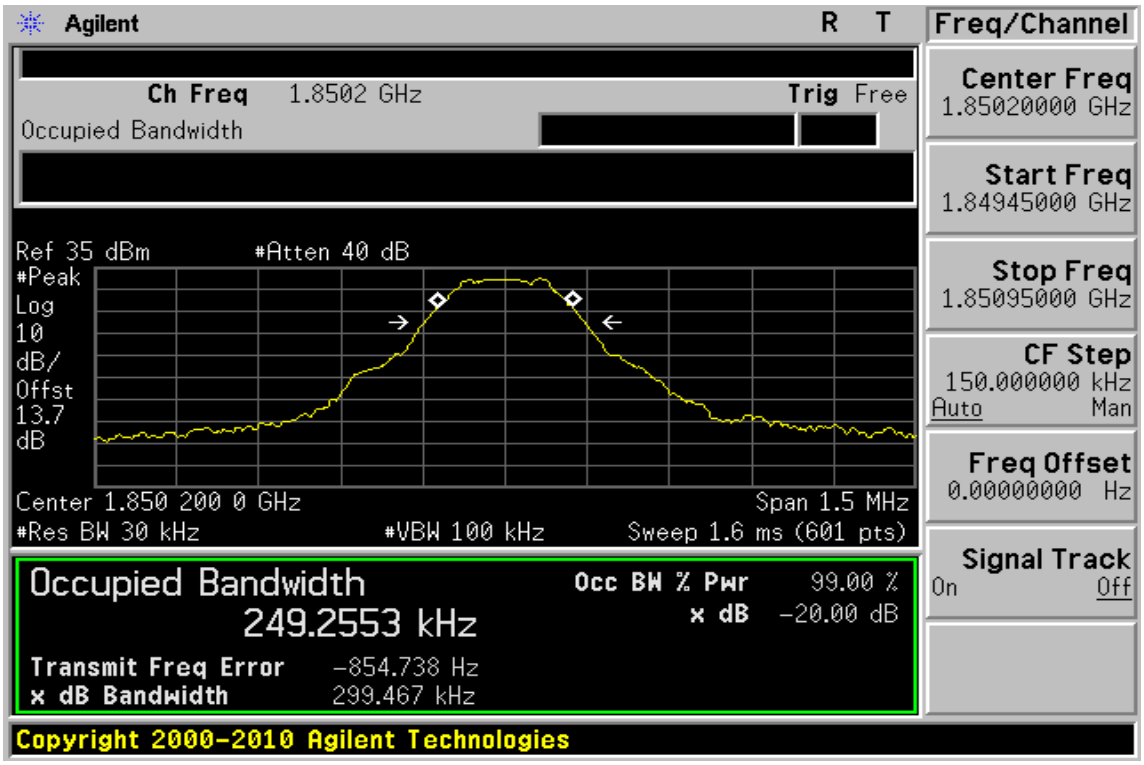


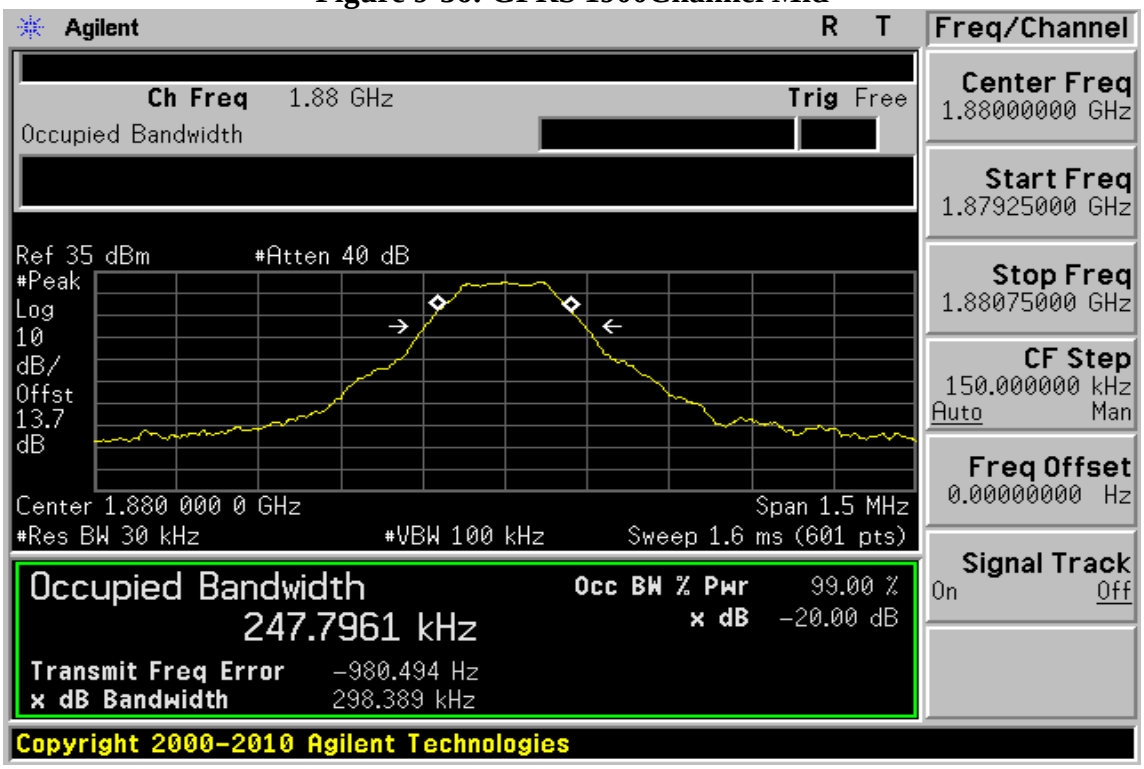
Figure 9-55: GPRS 1900 Channel Low



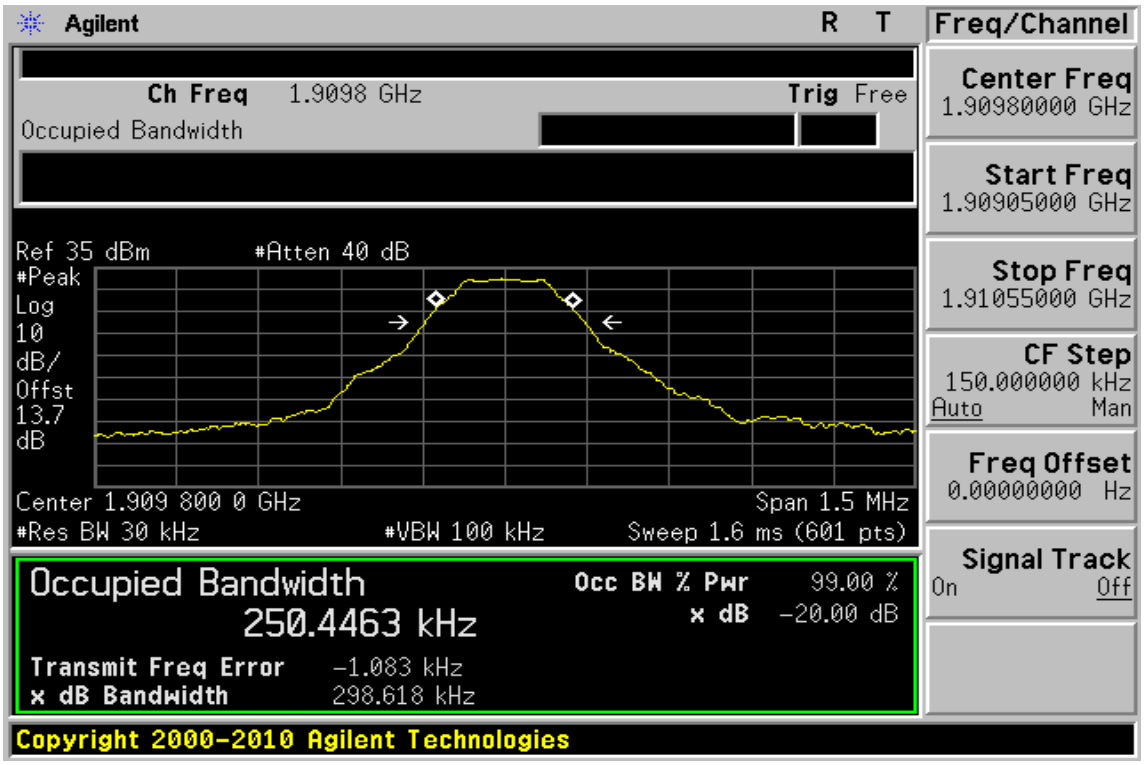
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Figure 9-56: GPRS 1900Channel Mid



GPRS Figure 9-57: GPRS 1900 Channel High



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Figure 9-58: EDGE 850 Channel Low

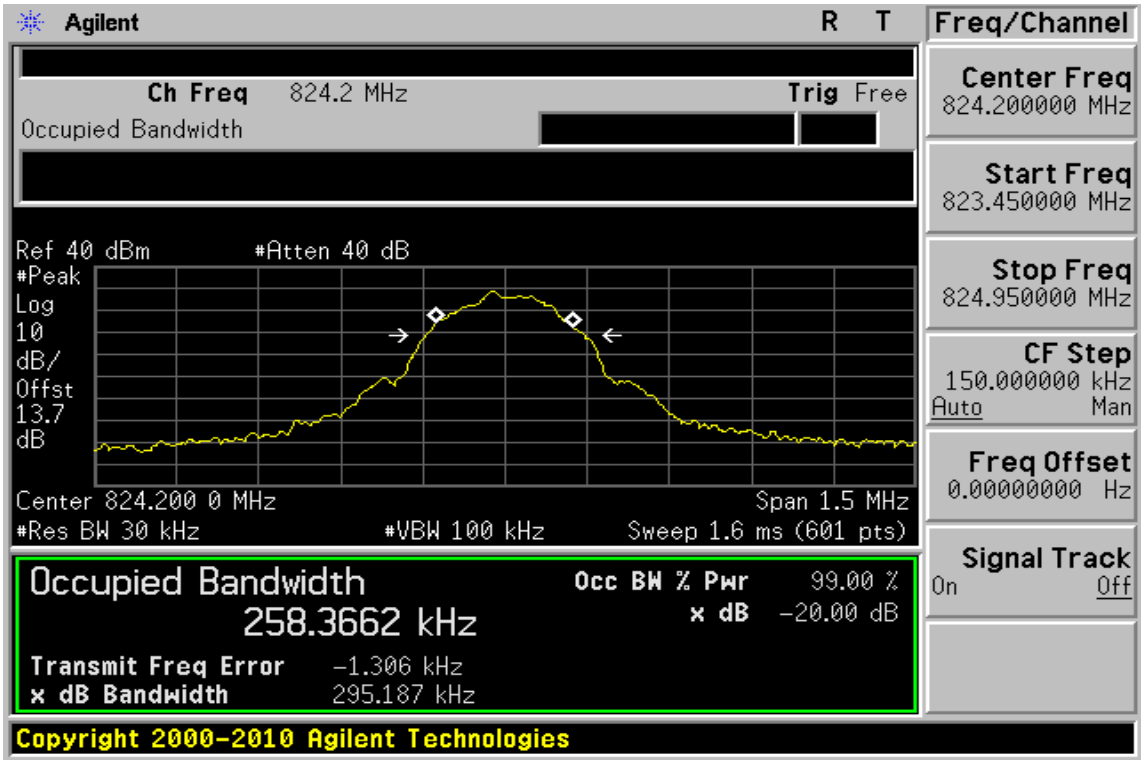
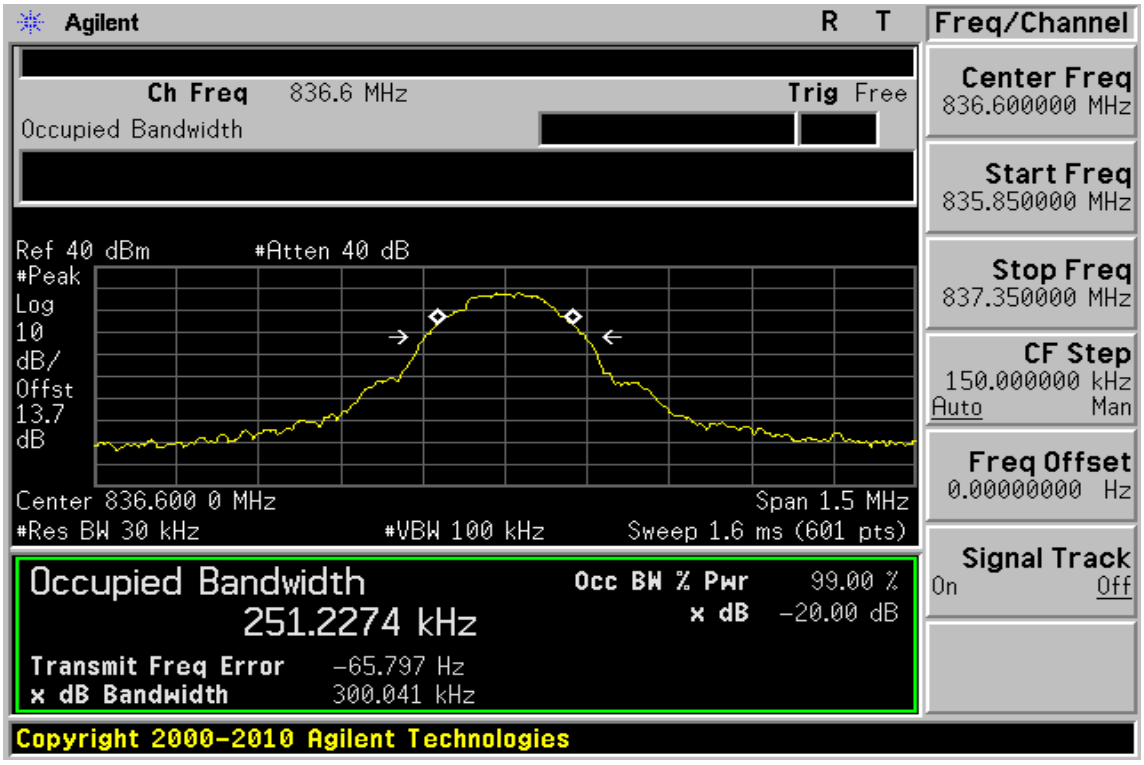


Figure 9-59 EDGE 850 Channel Mid



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Figure 9-60: EDGE 850 Channel High

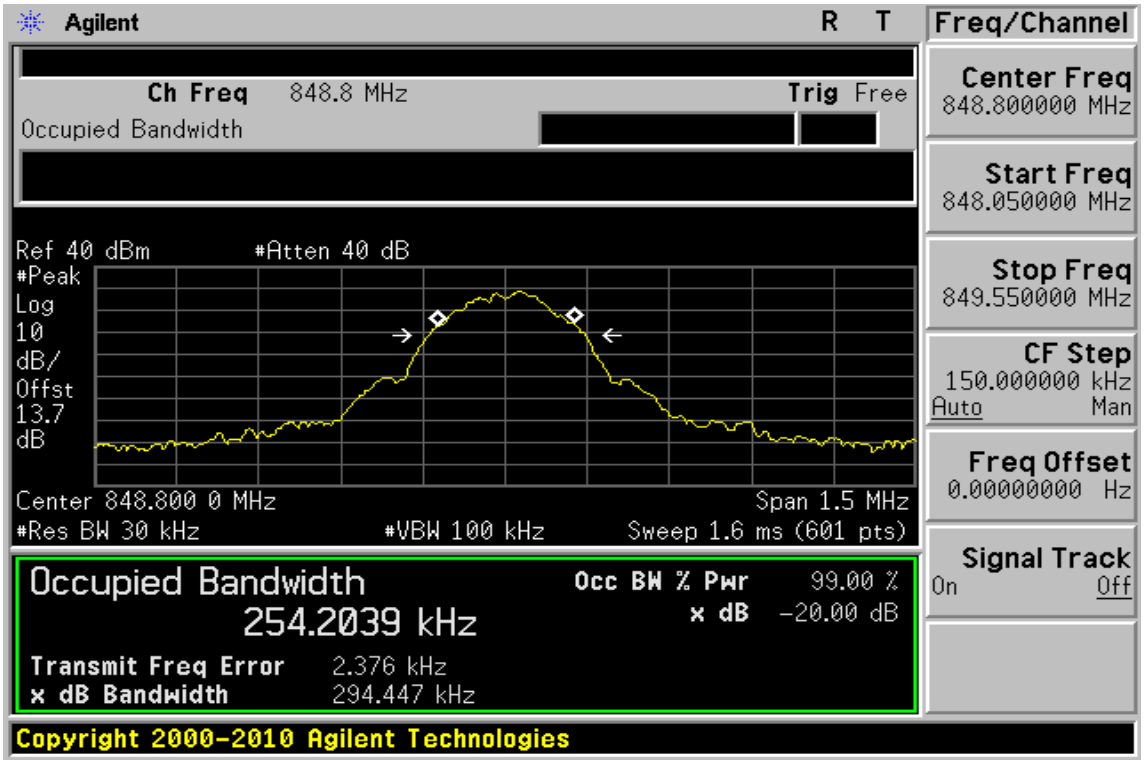
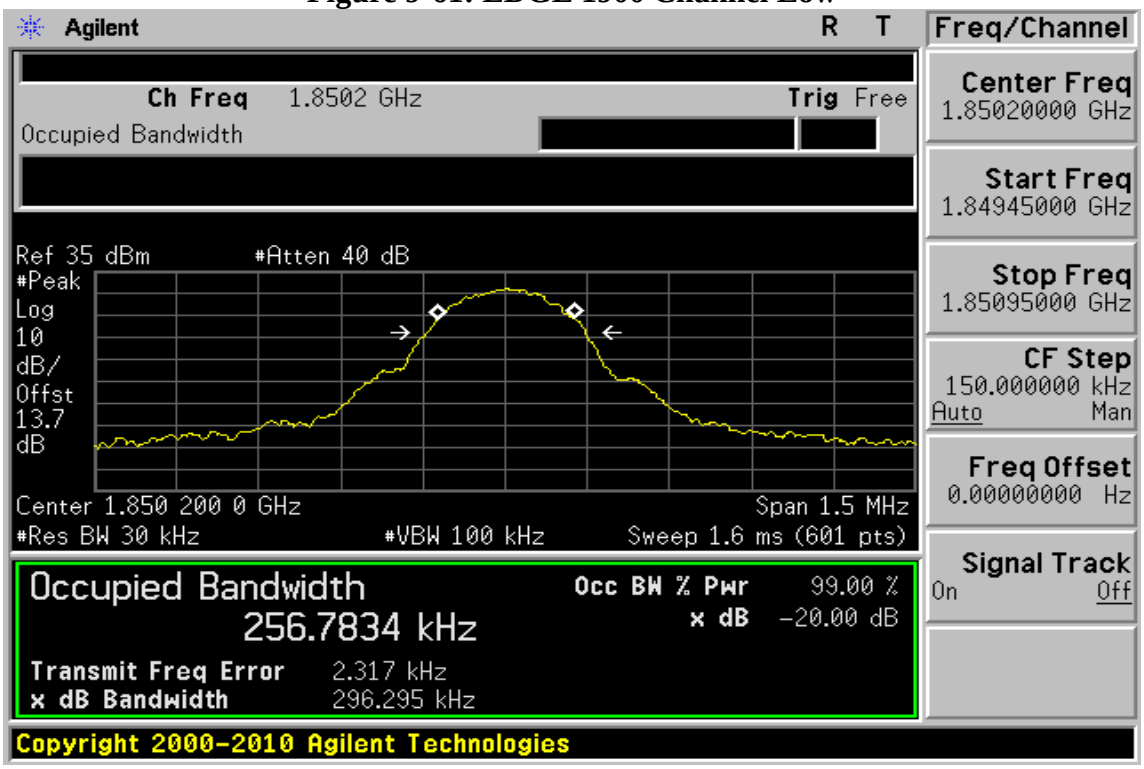


Figure 9-61: EDGE 1900 Channel Low



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Figure 9-62: EDGE 1900 Channel Mid

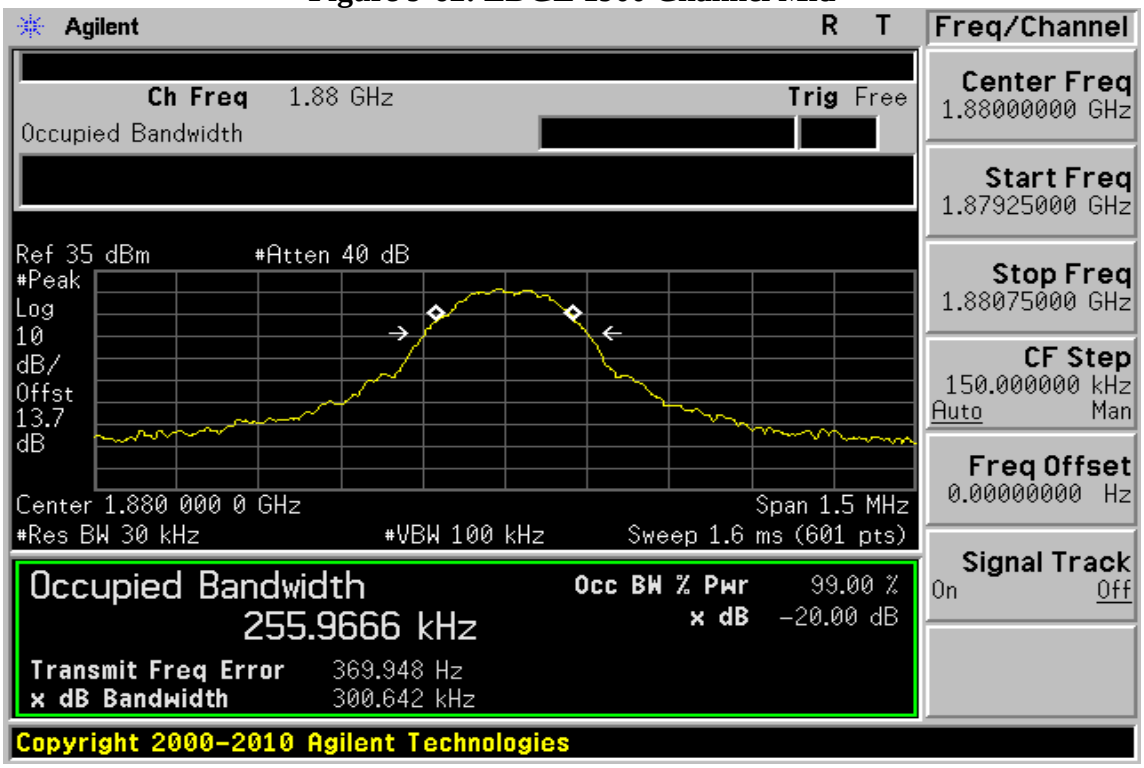
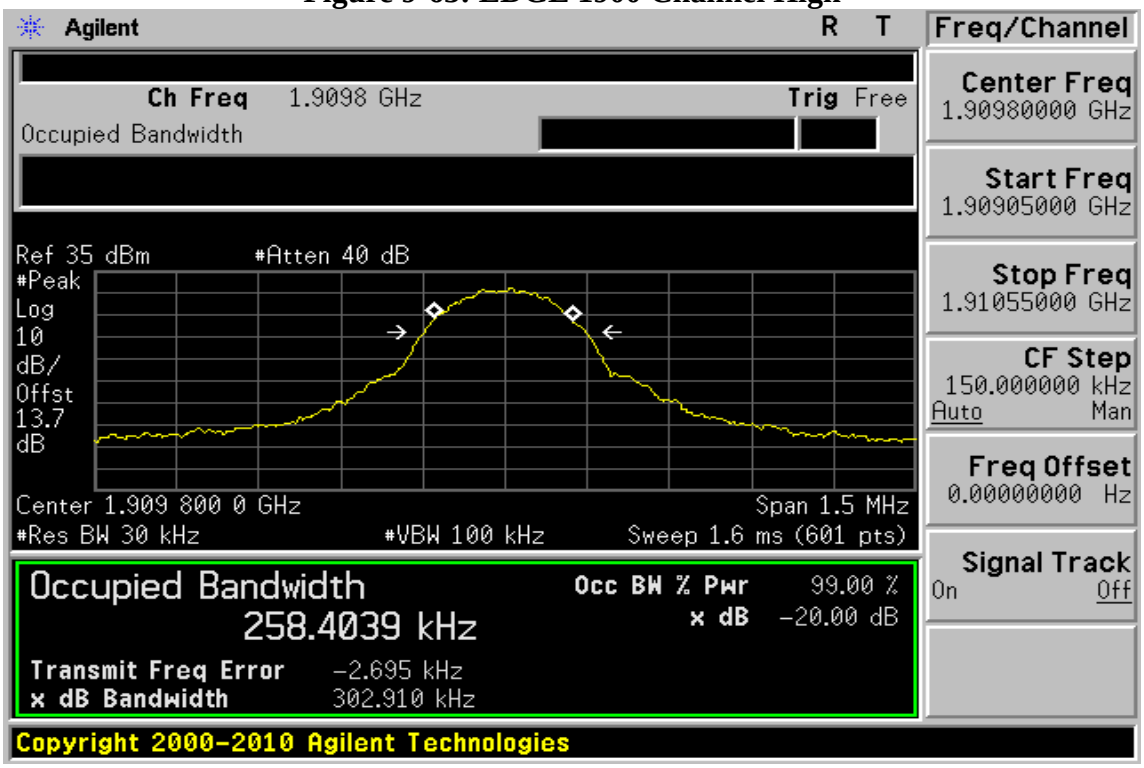


Figure 9-63: EDGE 1900 Channel High



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Figure 9-64: WCDMA II Channel Low

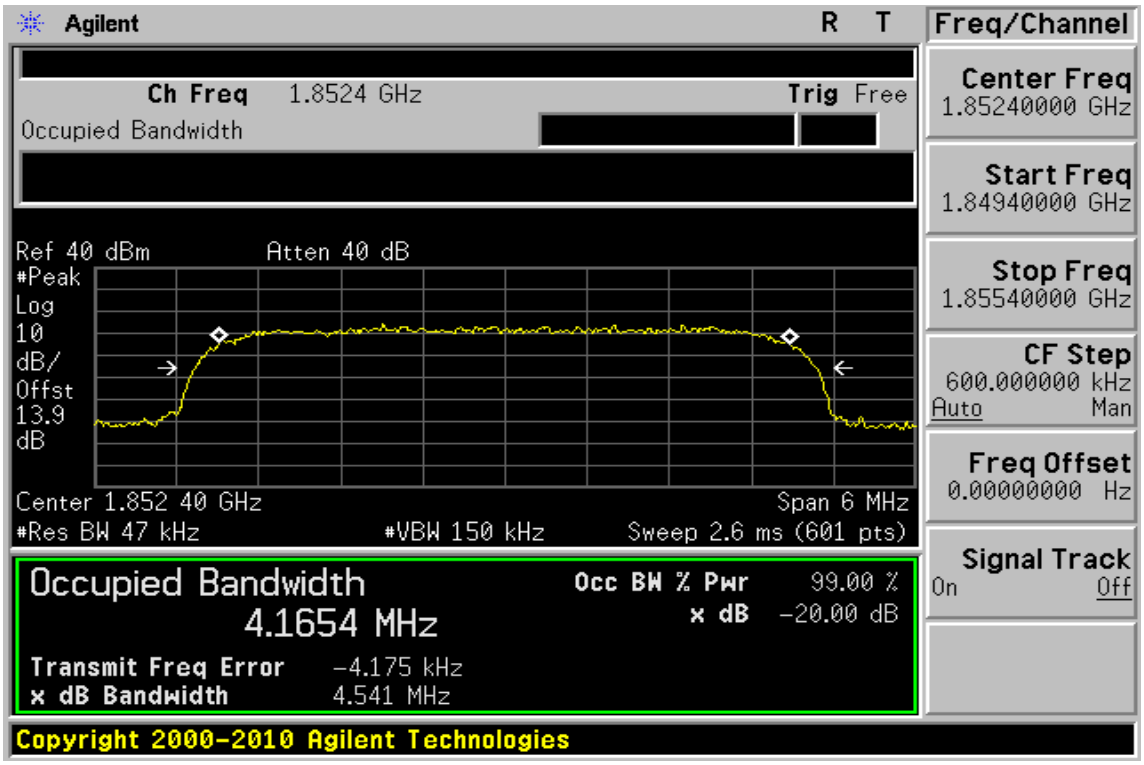
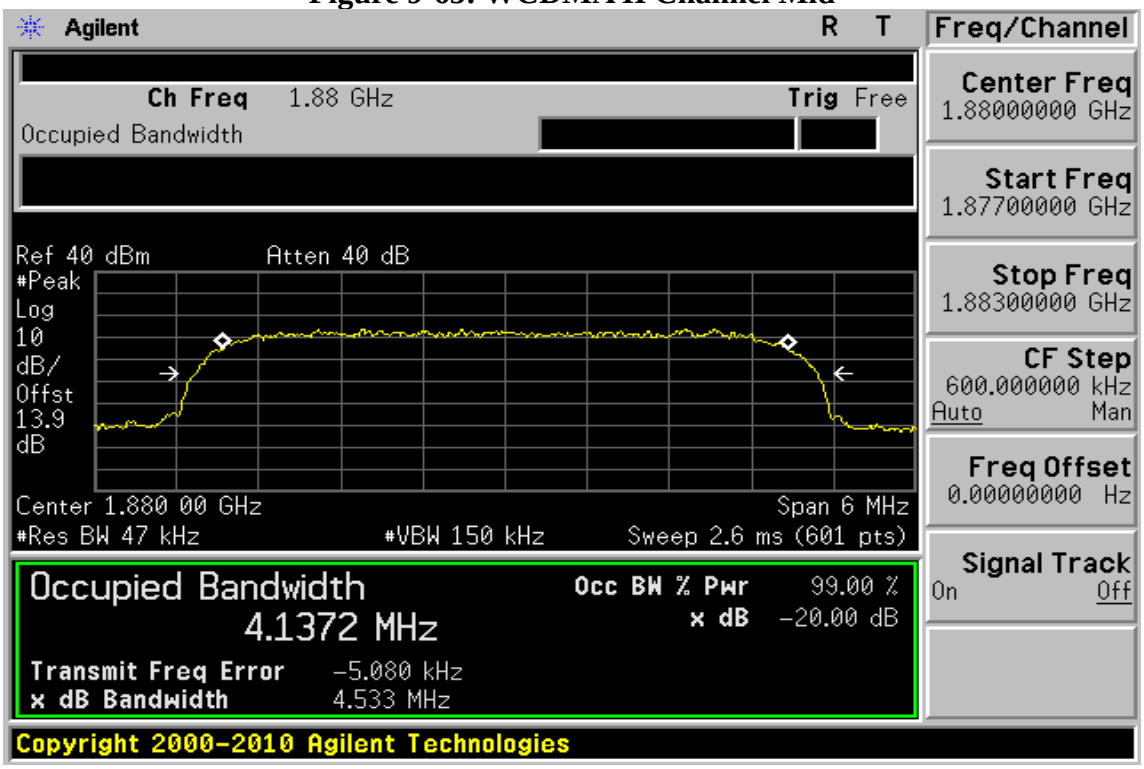


Figure 9-65: WCDMA II Channel Mid



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GPRS Figure 9-66: WCDMA II Channel High

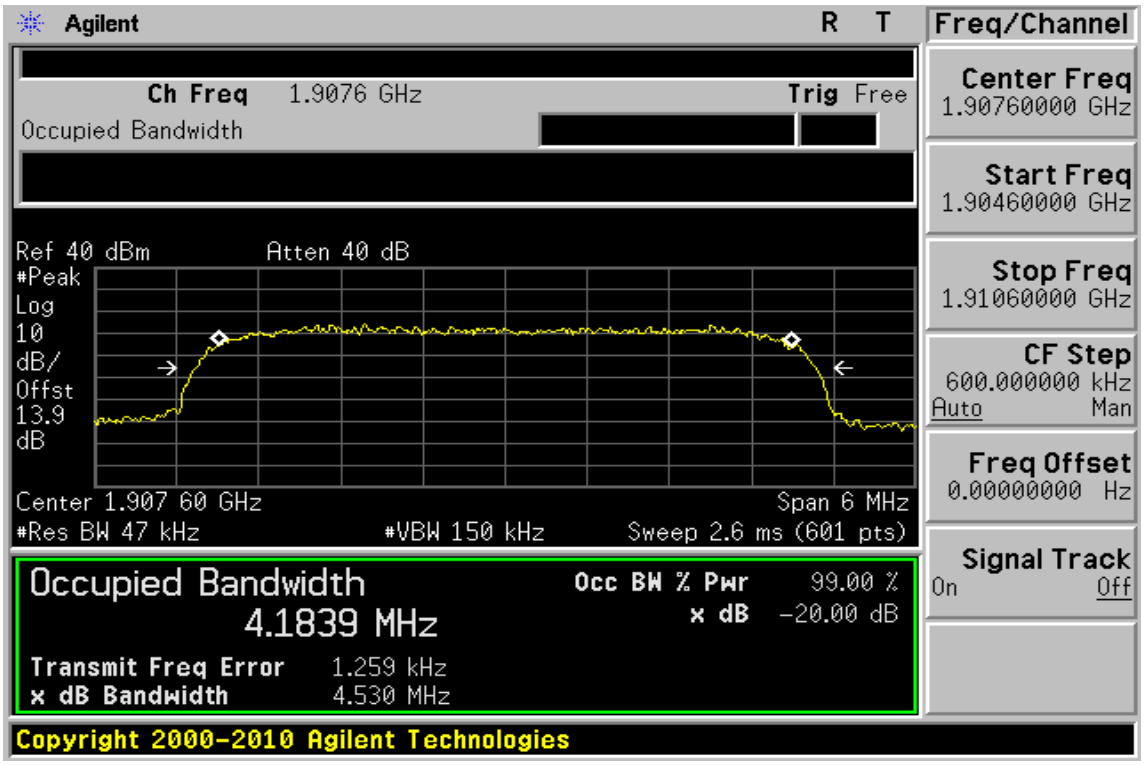
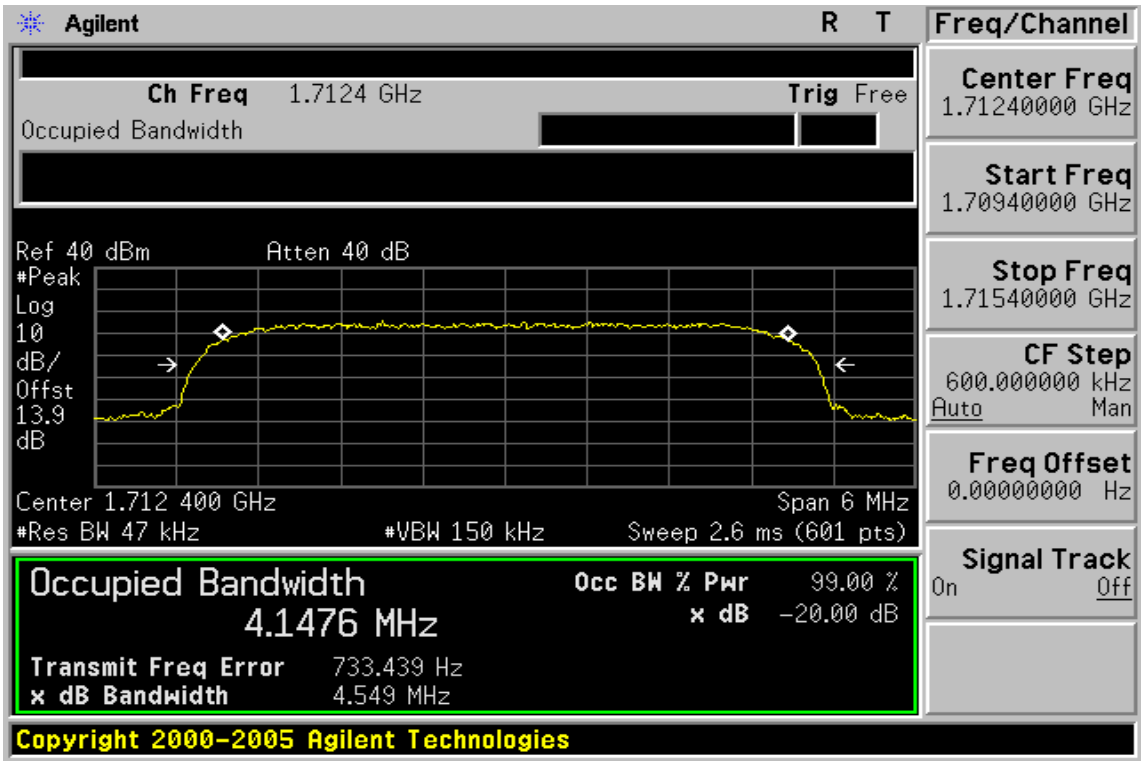


Figure 9-67: WCDMA IV Channel Low



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Figure 9-68: WCDMA IV Channel Mid

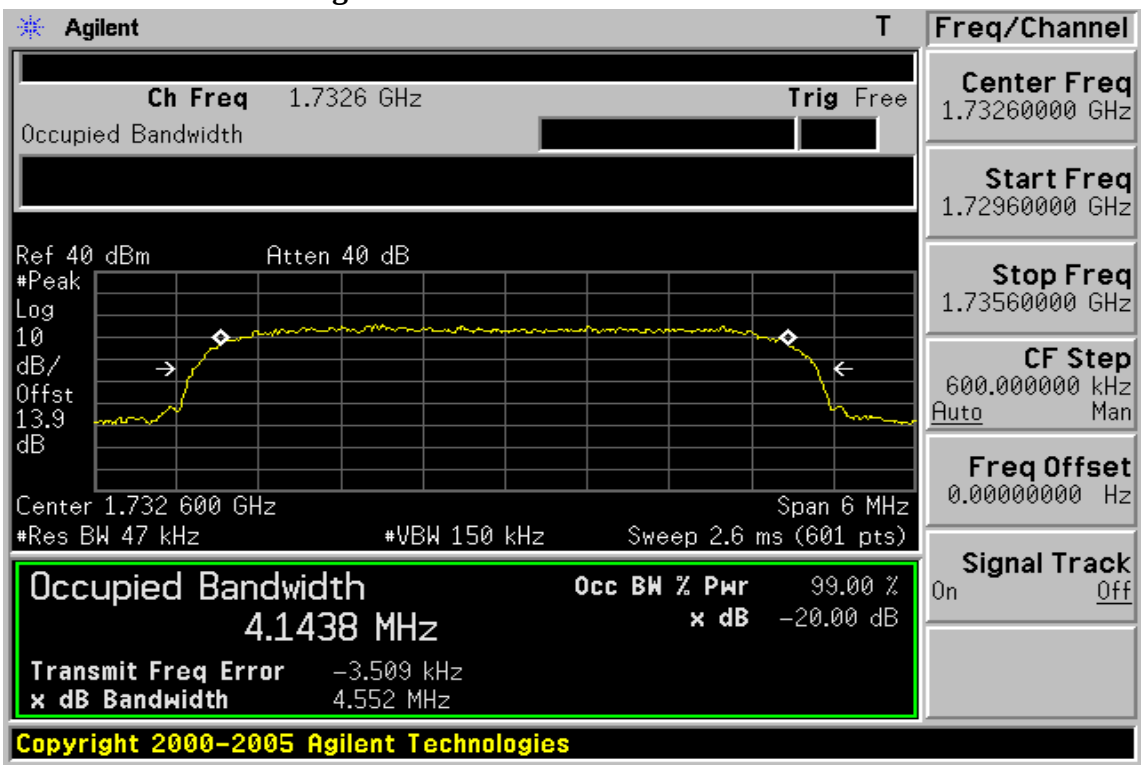
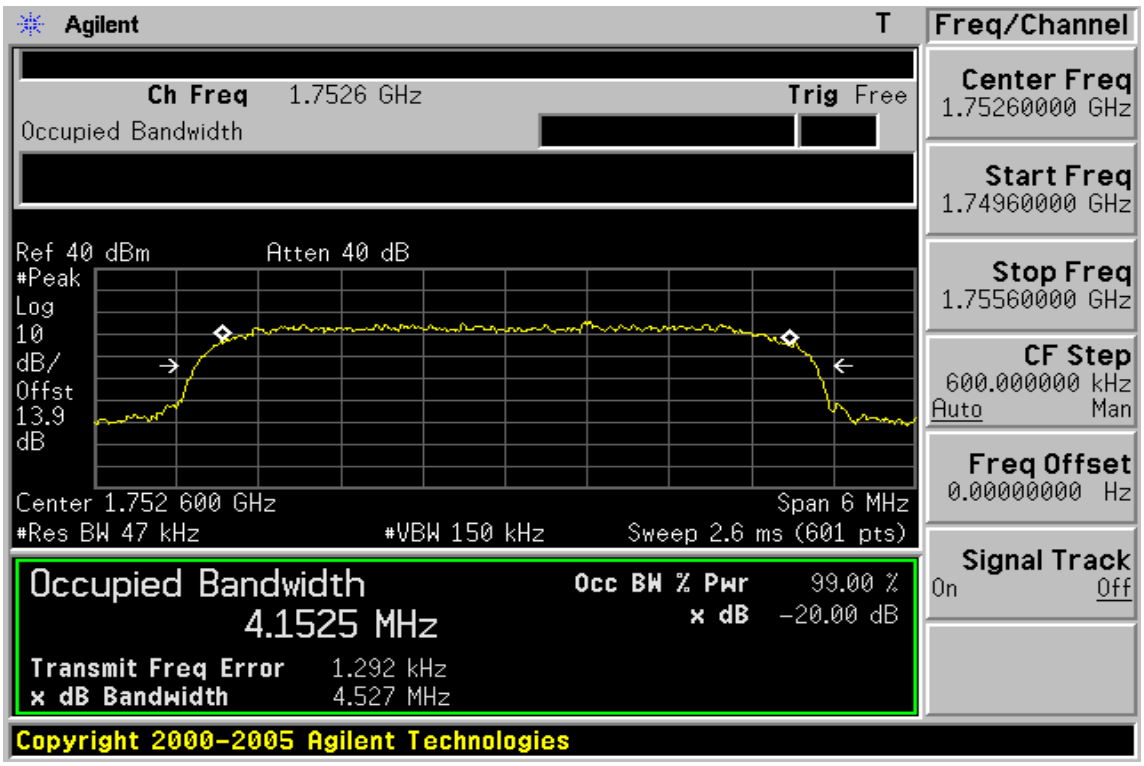


Figure 9-69: WCDMA IV Channel High



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Figure 9-70: WCDMA Band V Channel Low

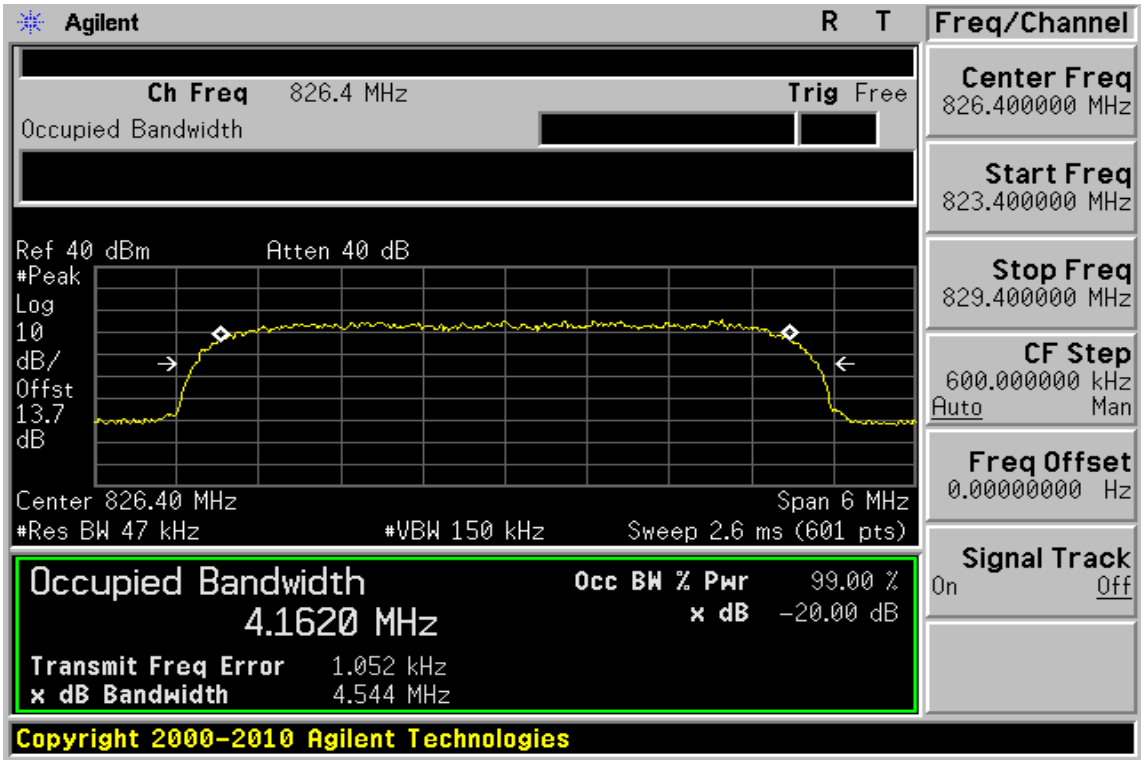
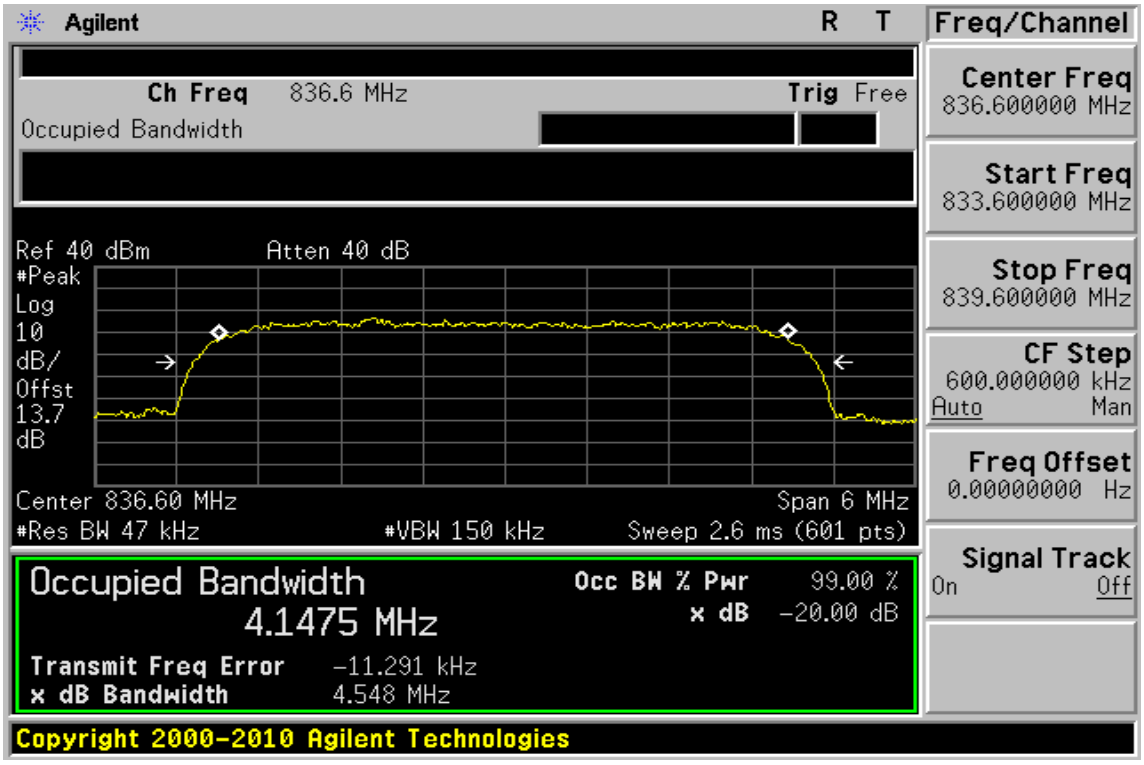


Figure 9-71: WCDMA Band V Channel Mid



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Figure 9-72: WCDMA Band V Channel High

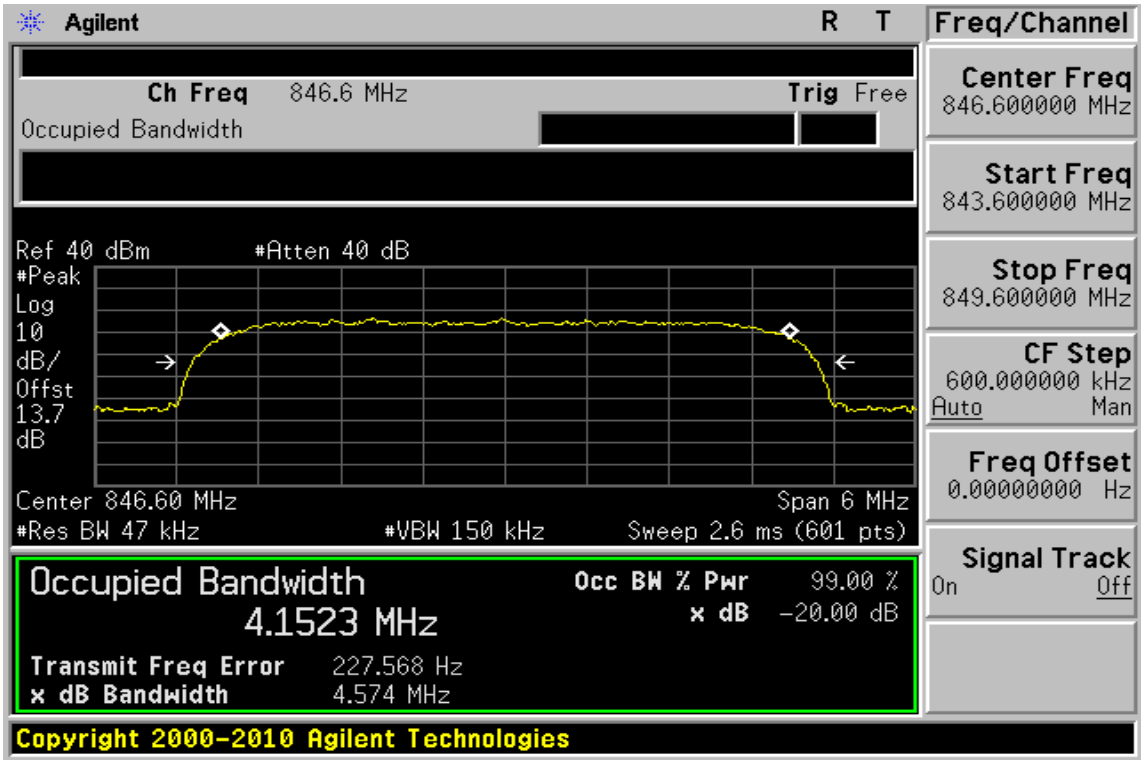
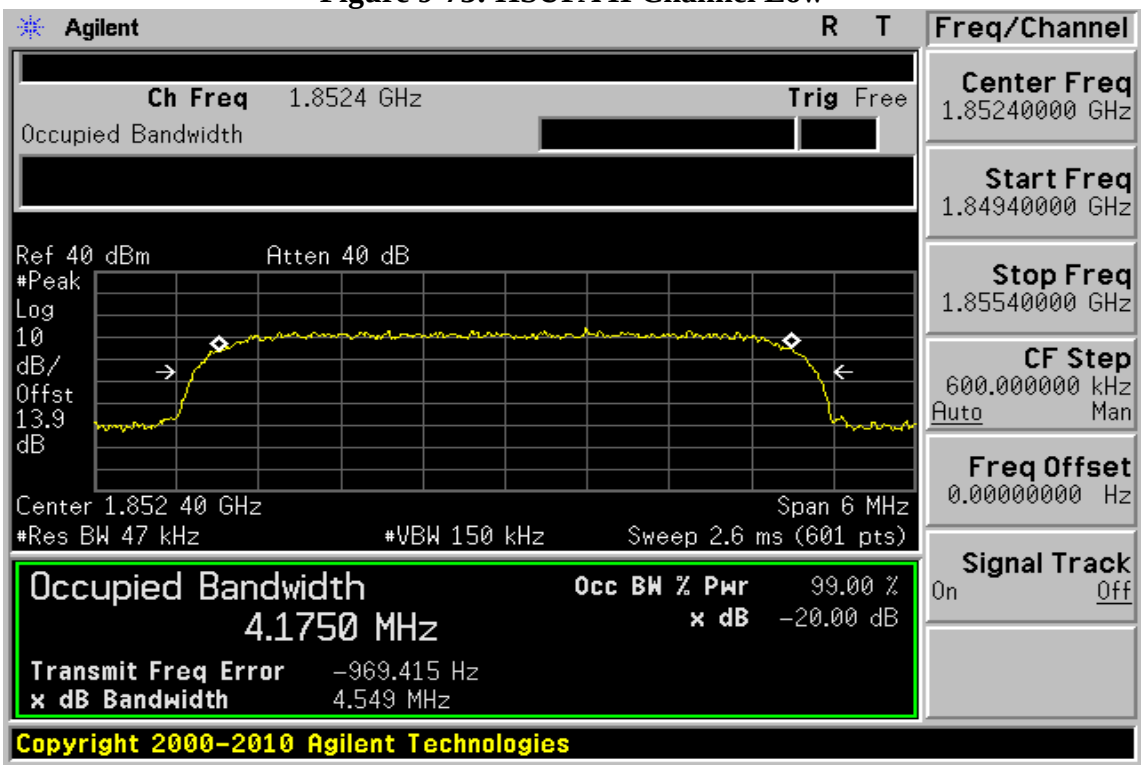


Figure 9-73: HSUPA II Channel Low



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Figure 9-74: HSUPA II Channel Mid

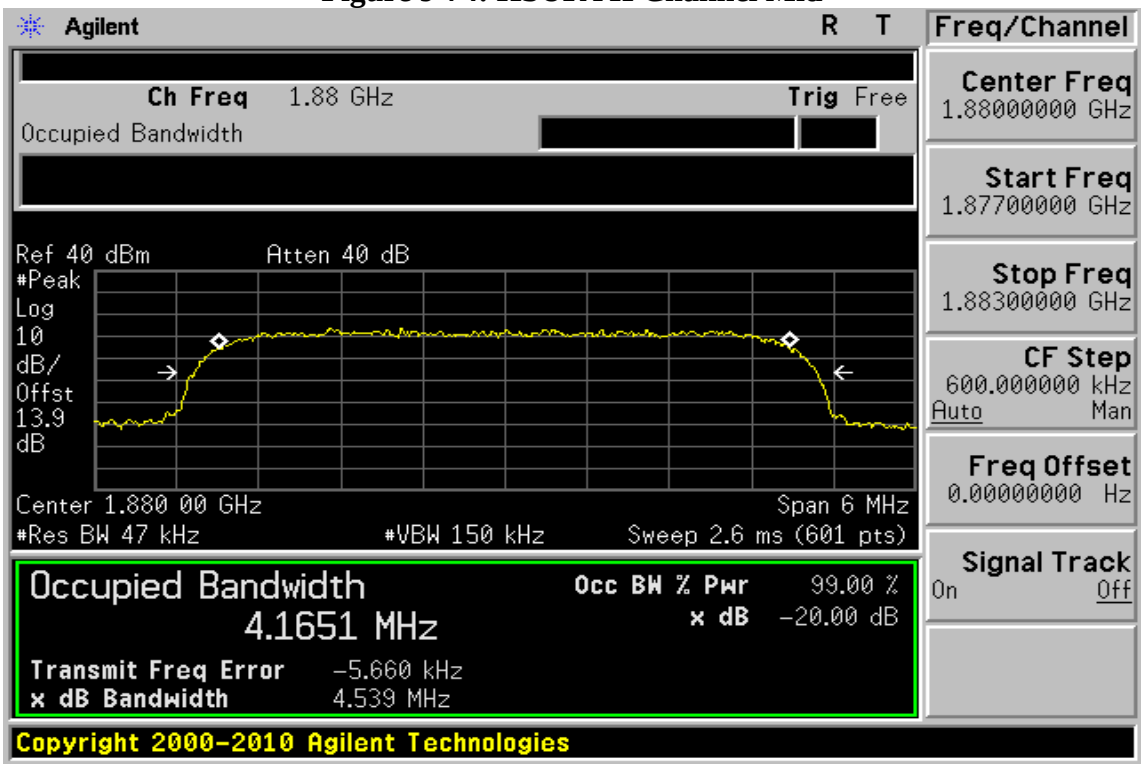
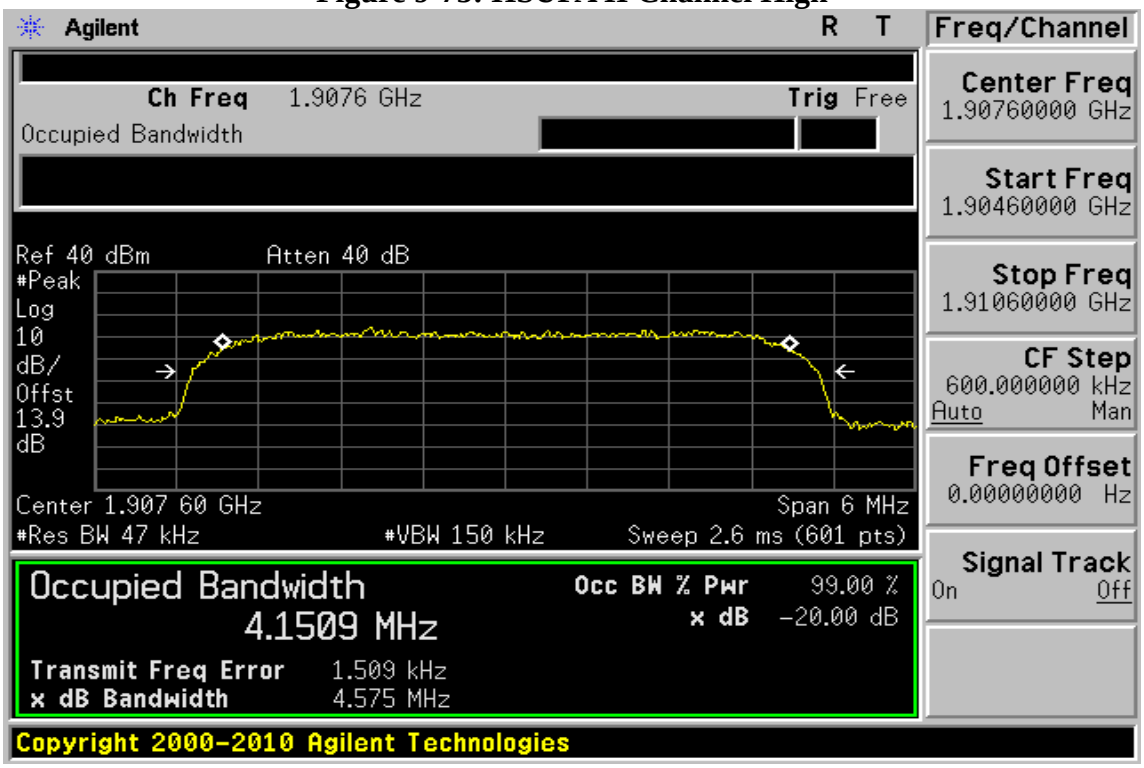


Figure 9-75: HSUPA II Channel High



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Figure 9-76: HSUPA IV Channel Low

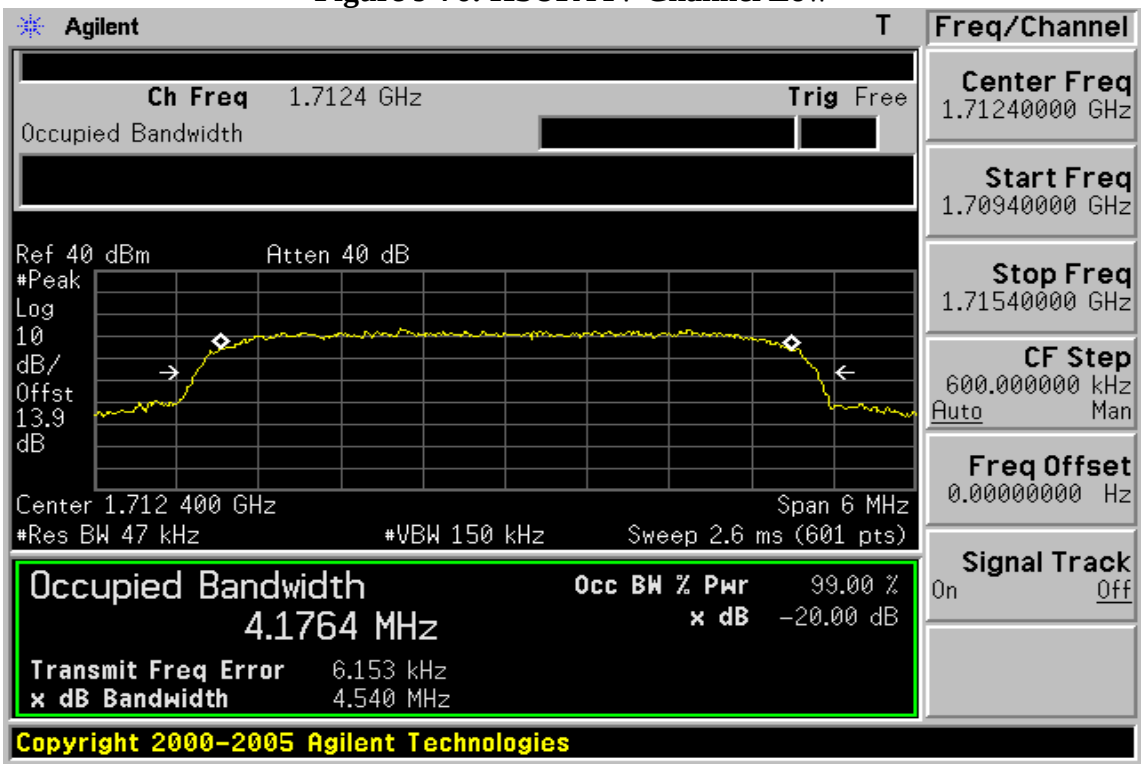
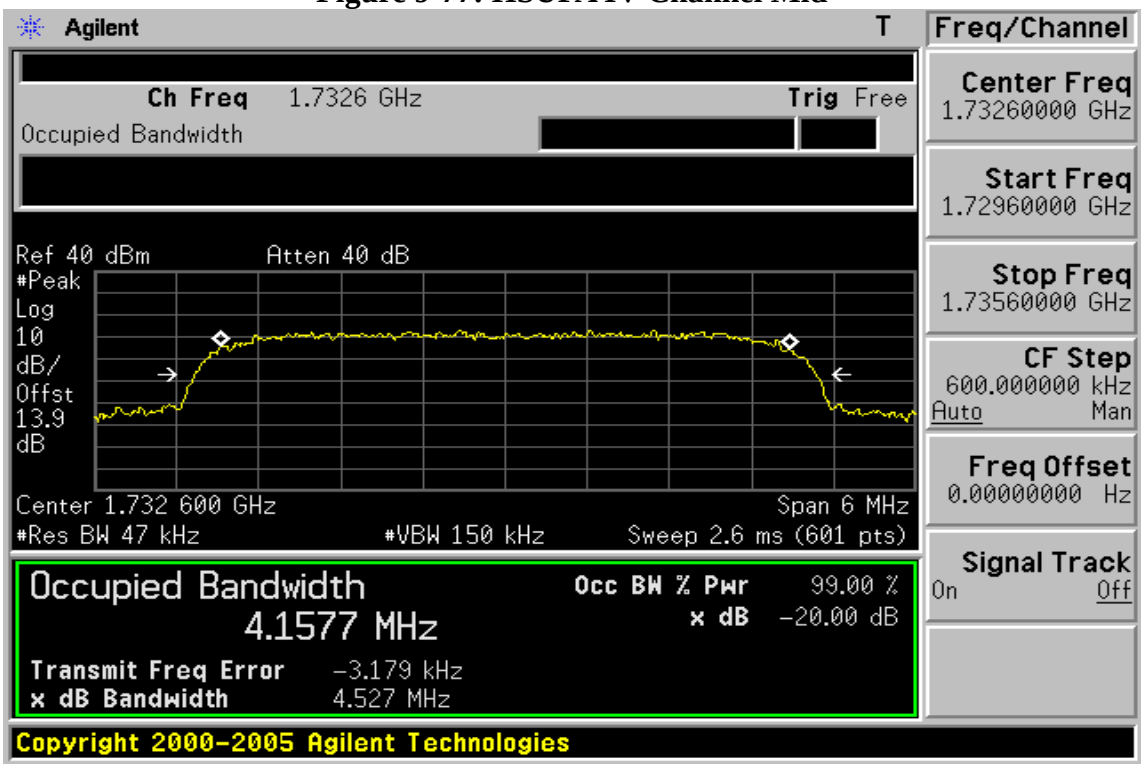


Figure 9-77: HSUPA IV Channel Mid



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Figure 9-78: HSUPA IV Channel High

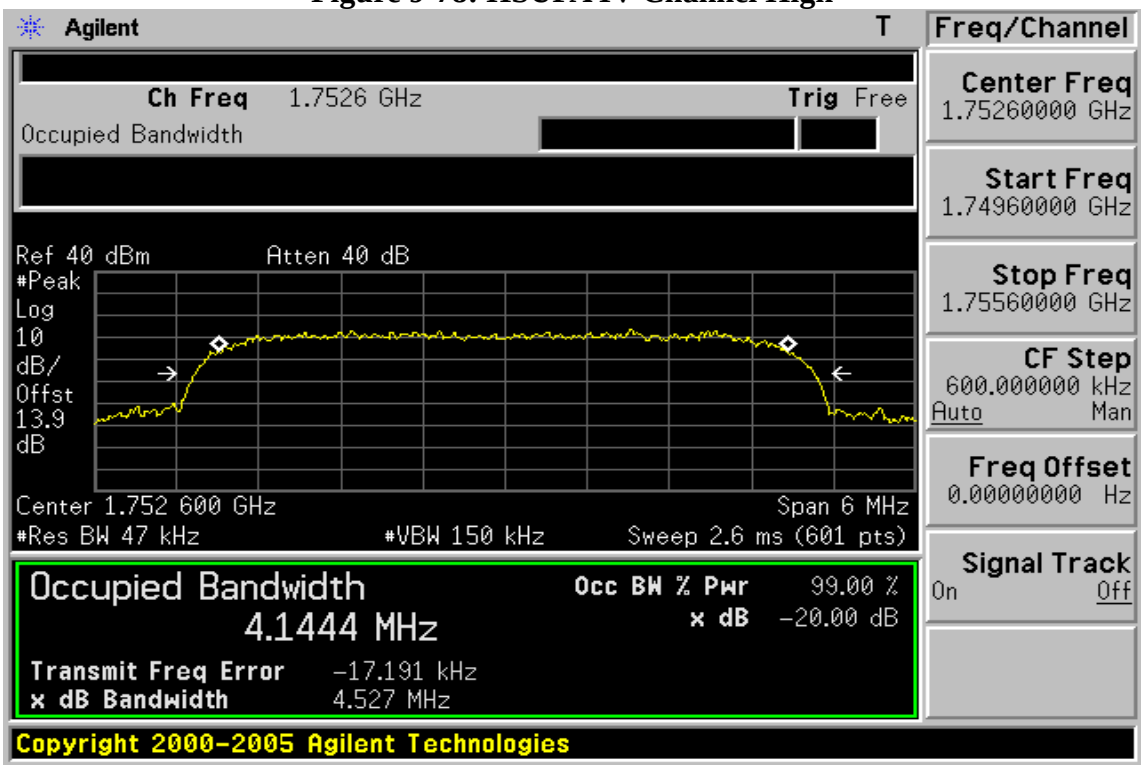
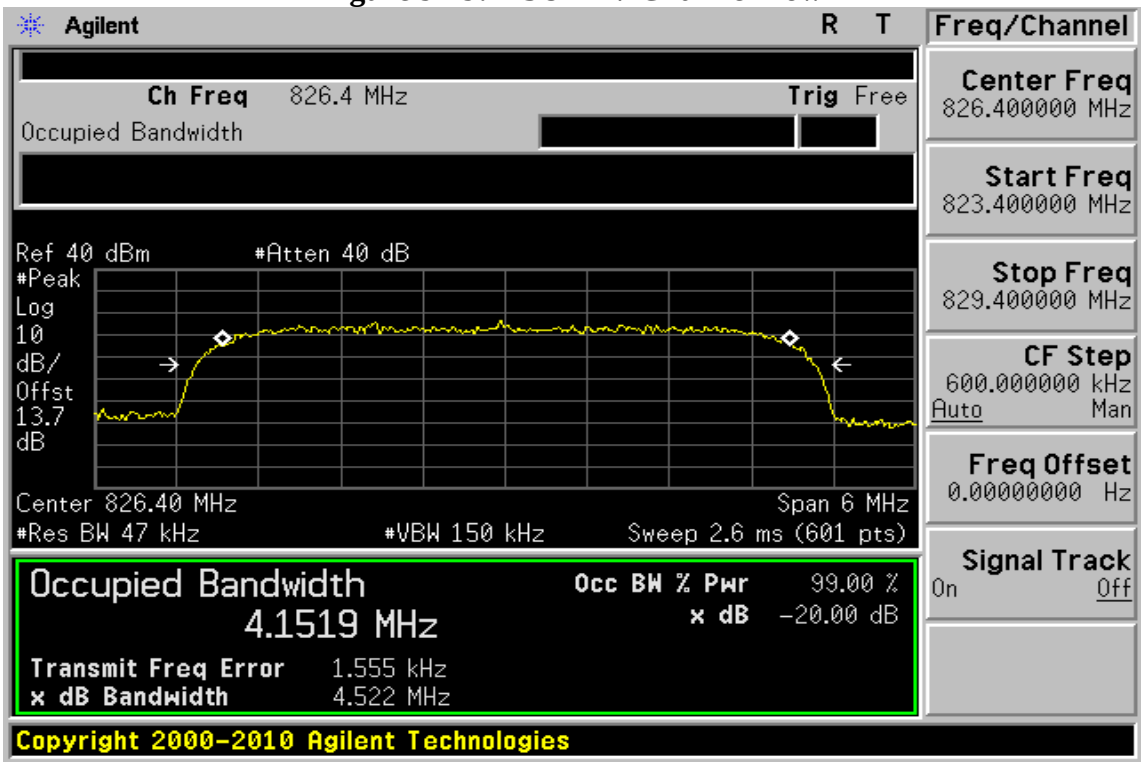


Figure 9-79: HSUPA V Channel Low



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Figure 9-80: HSUPA V Channel Mid

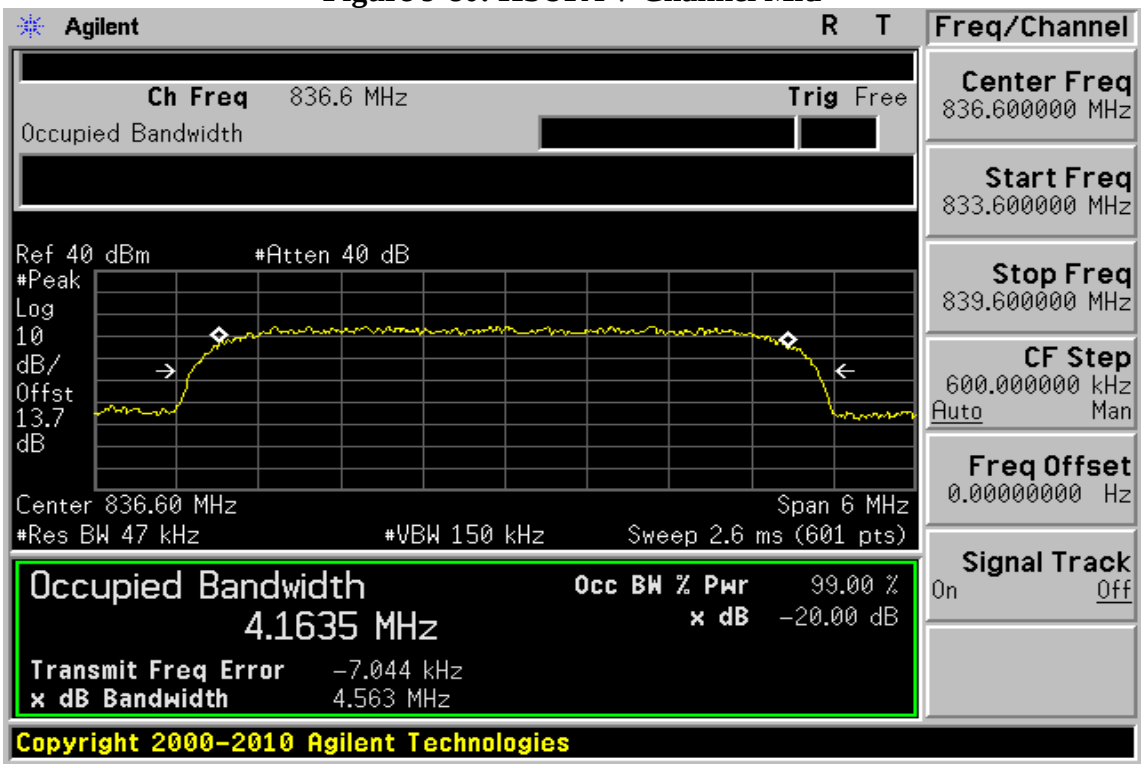
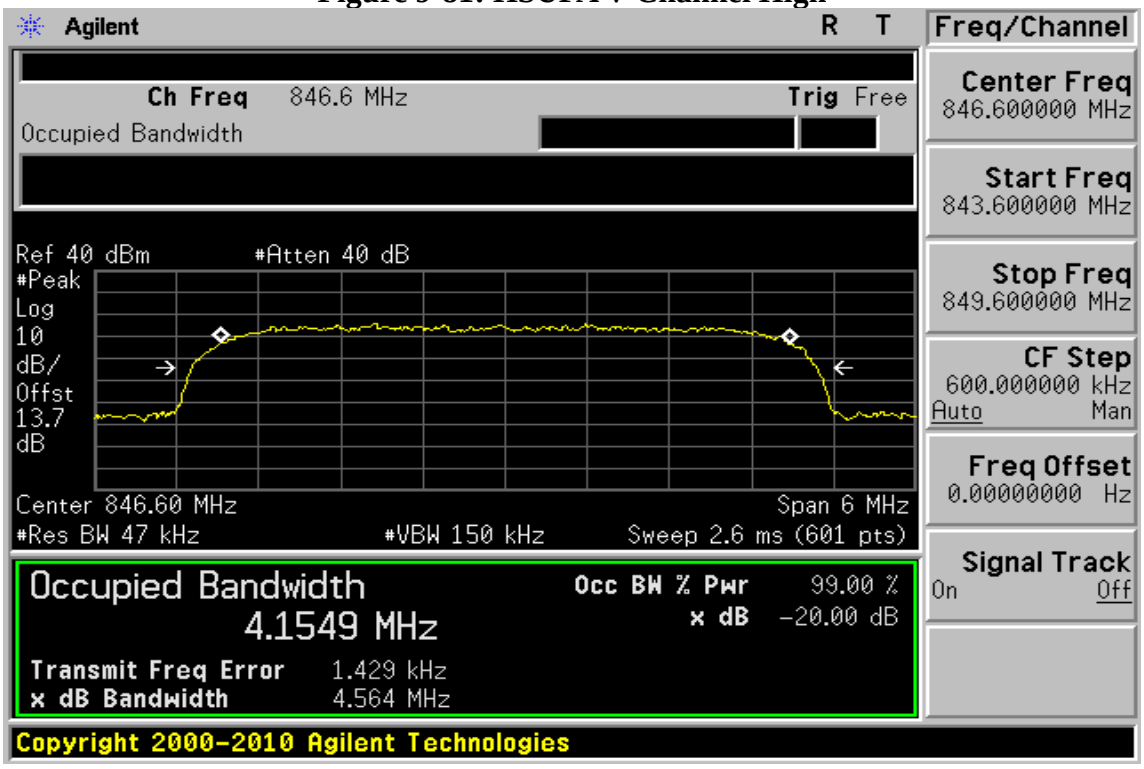


Figure 9-81: HSUPA V Channel High



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Figure 9-82: HSDPA II Channel Low

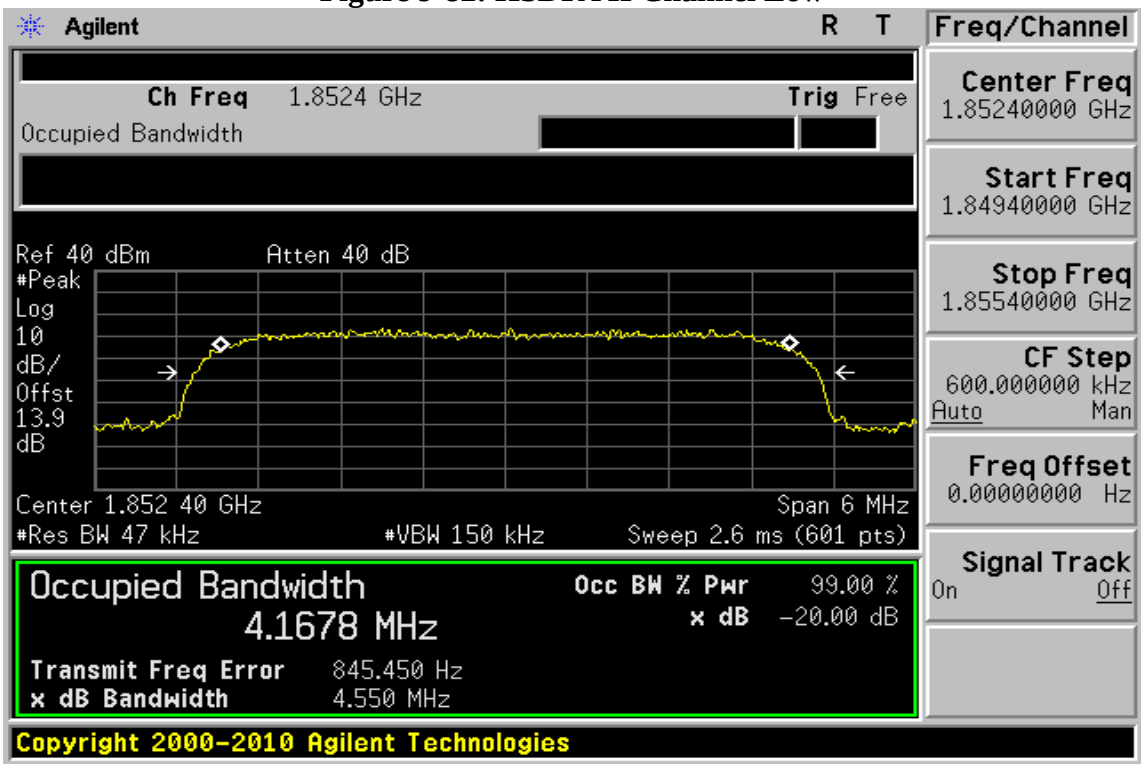
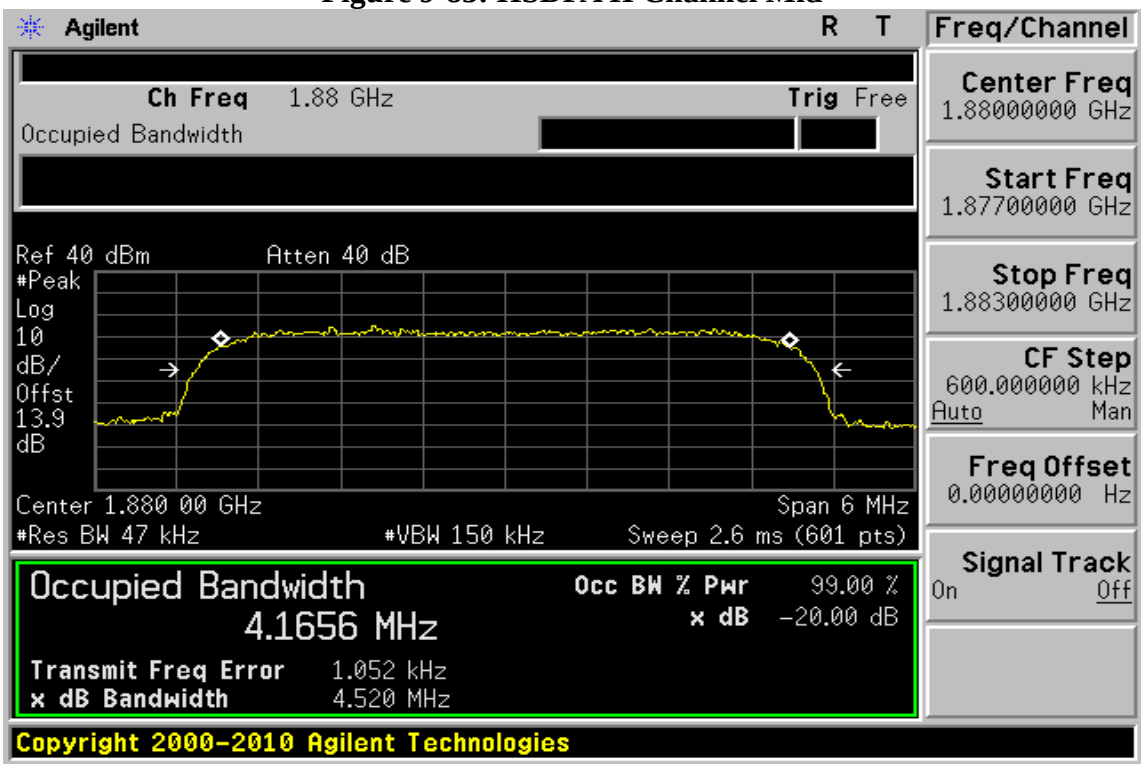


Figure 9-83: HSDPA II Channel Mid



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Figure 9-84: HSDPA II Channel High

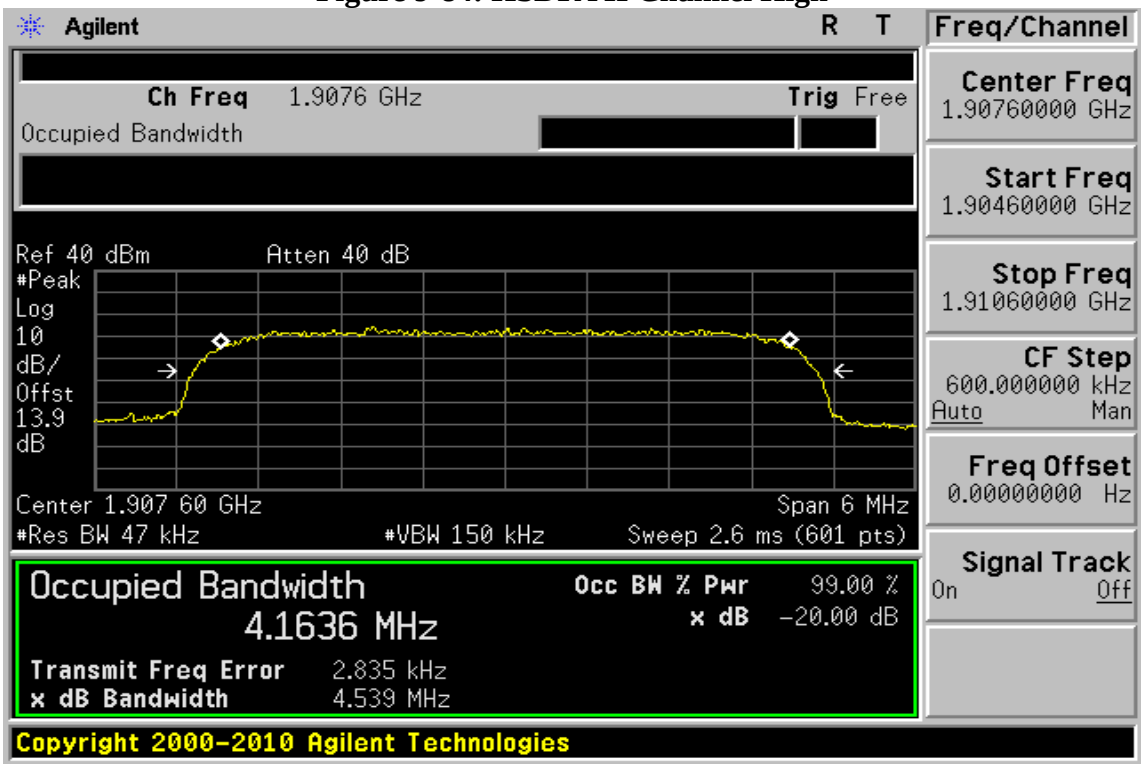
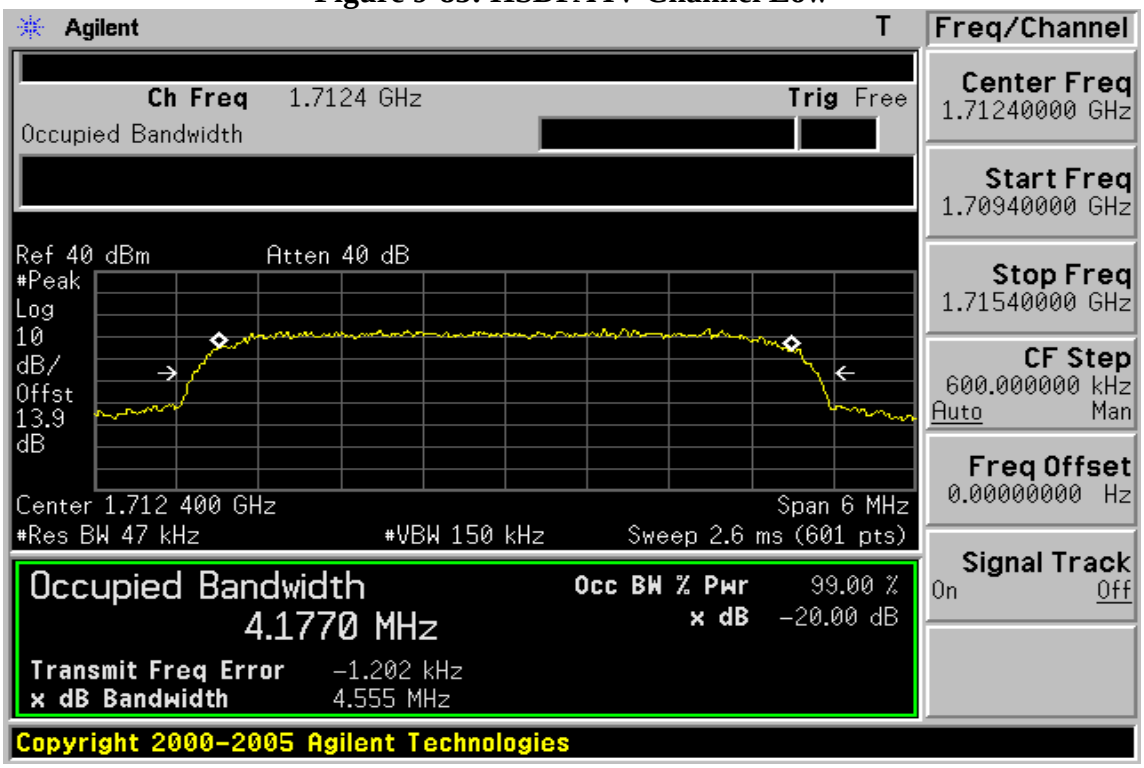


Figure 9-85: HSDPA IV Channel Low



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Figure 9-86: HSDPA IV Channel Mid

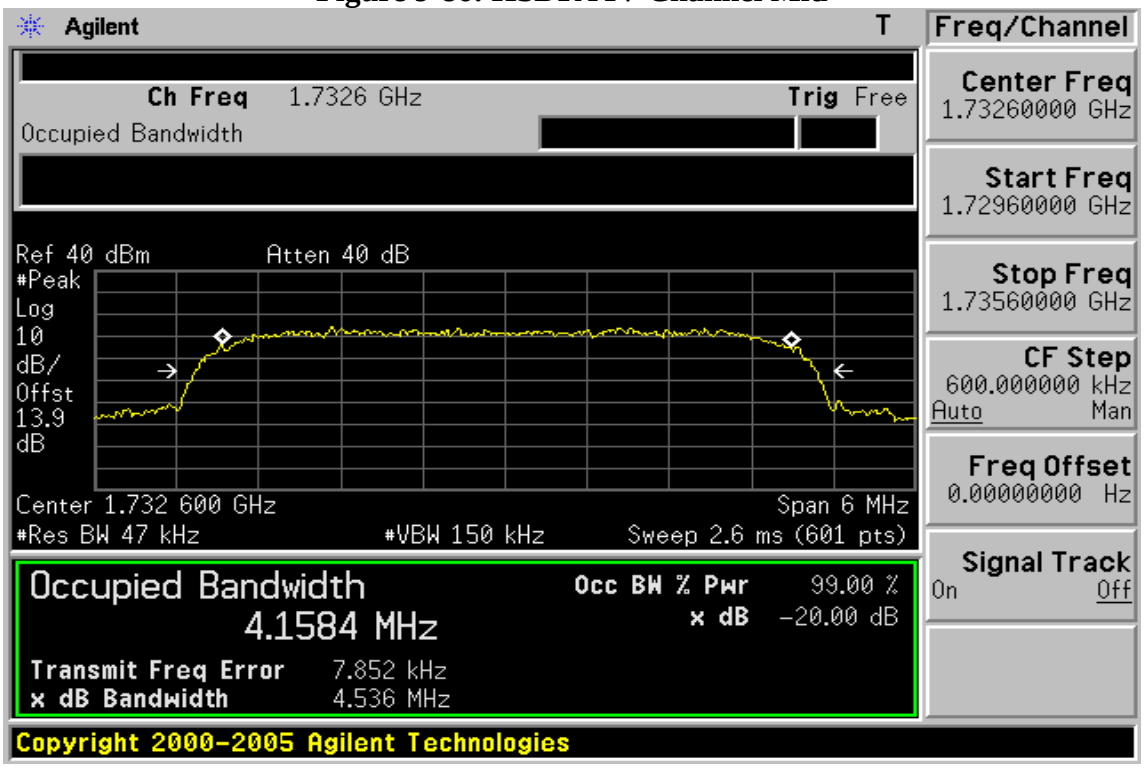
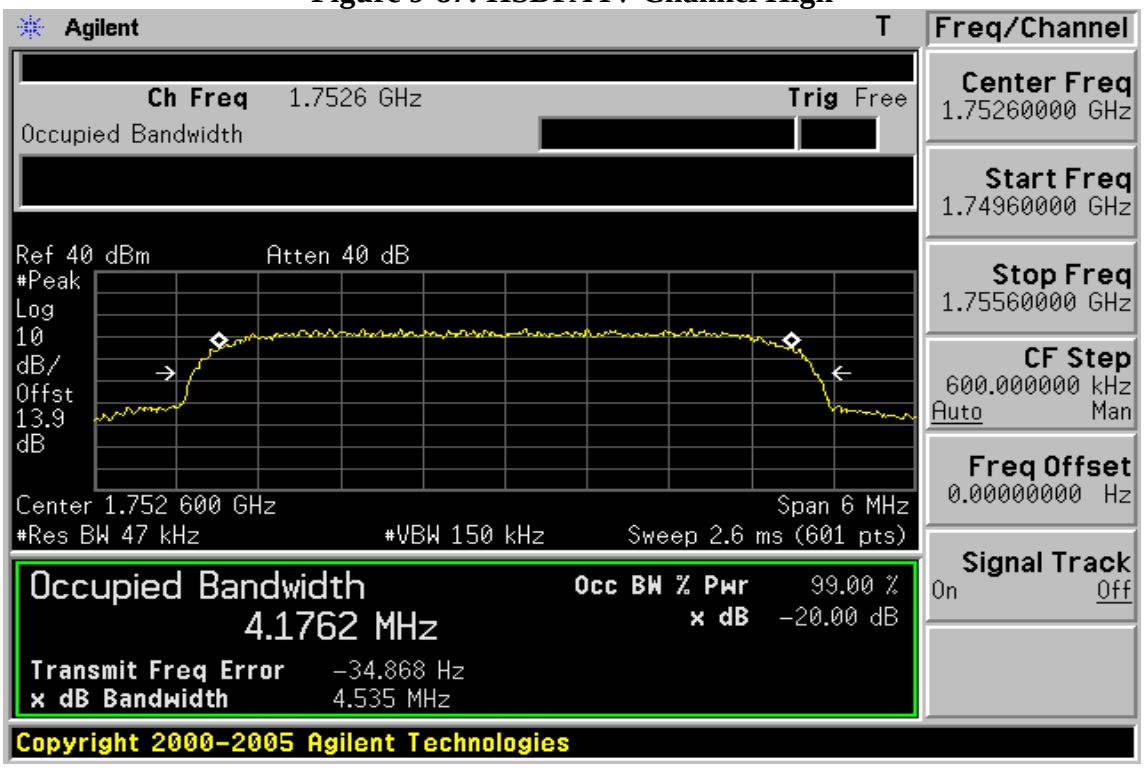


Figure 9-87: HSDPA IV Channel High



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Figure 9-88: HSDPA V Channel Low

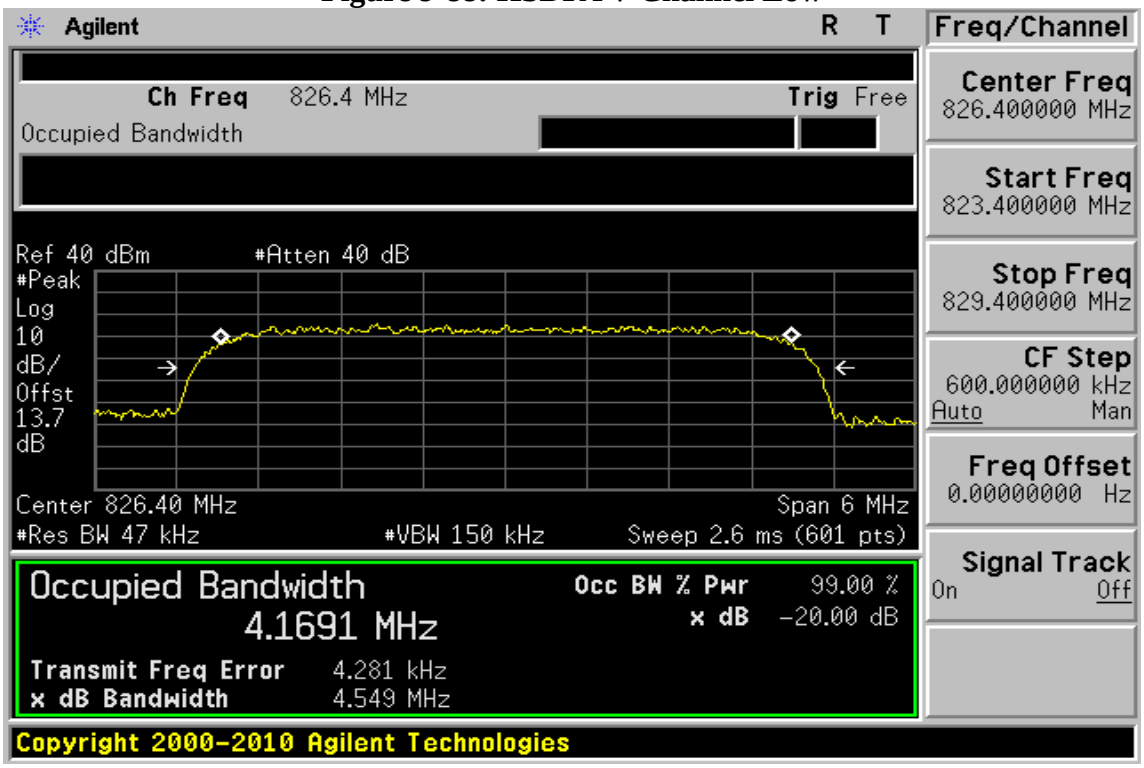
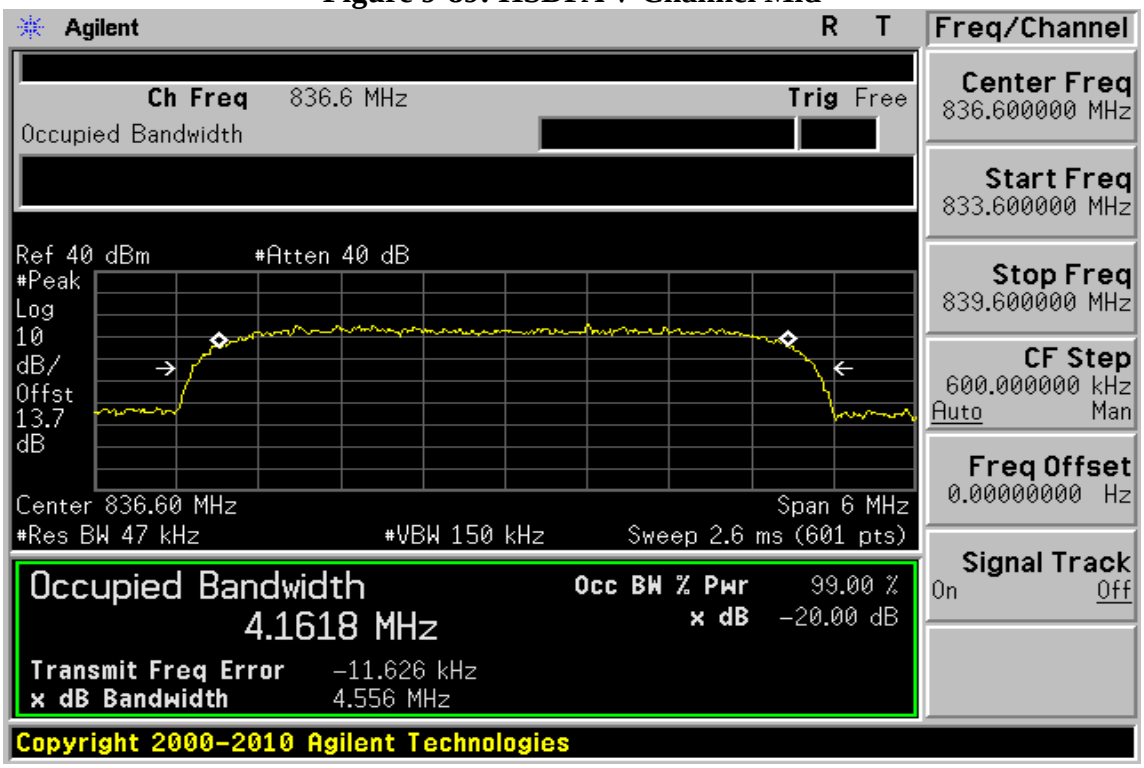


Figure 9-89: HSDPA V Channel Mid



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Figure 9-90: HSDPA V Channel High

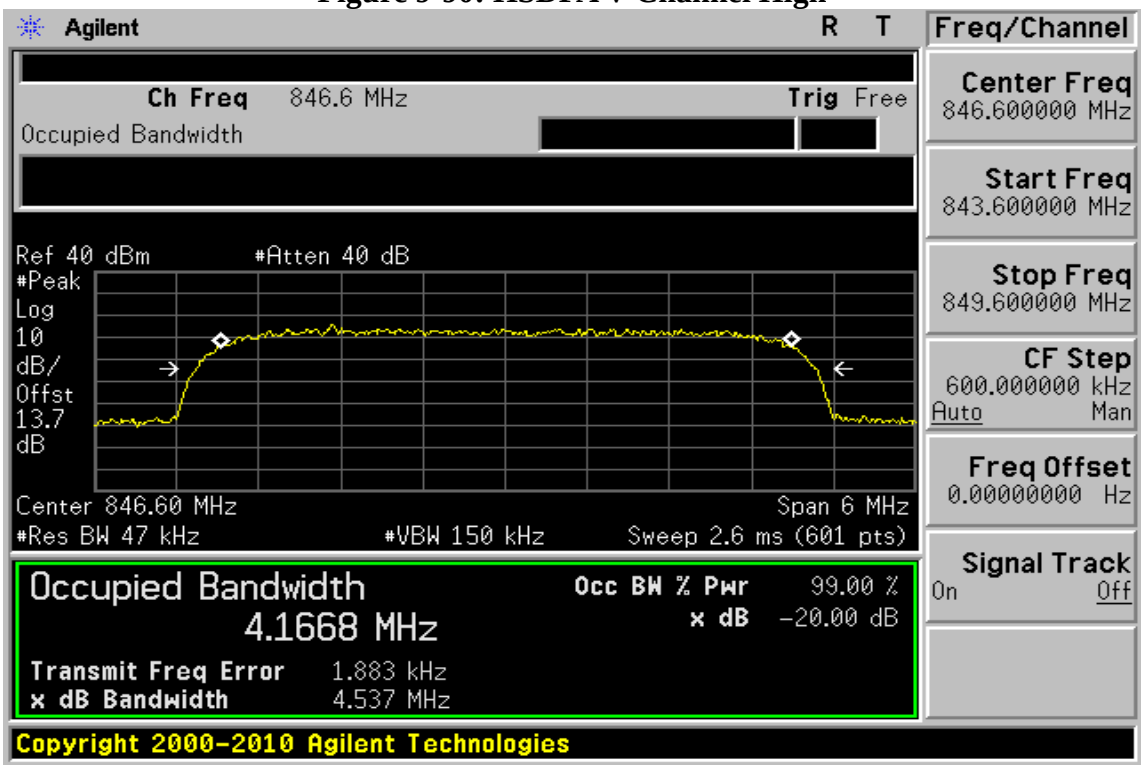
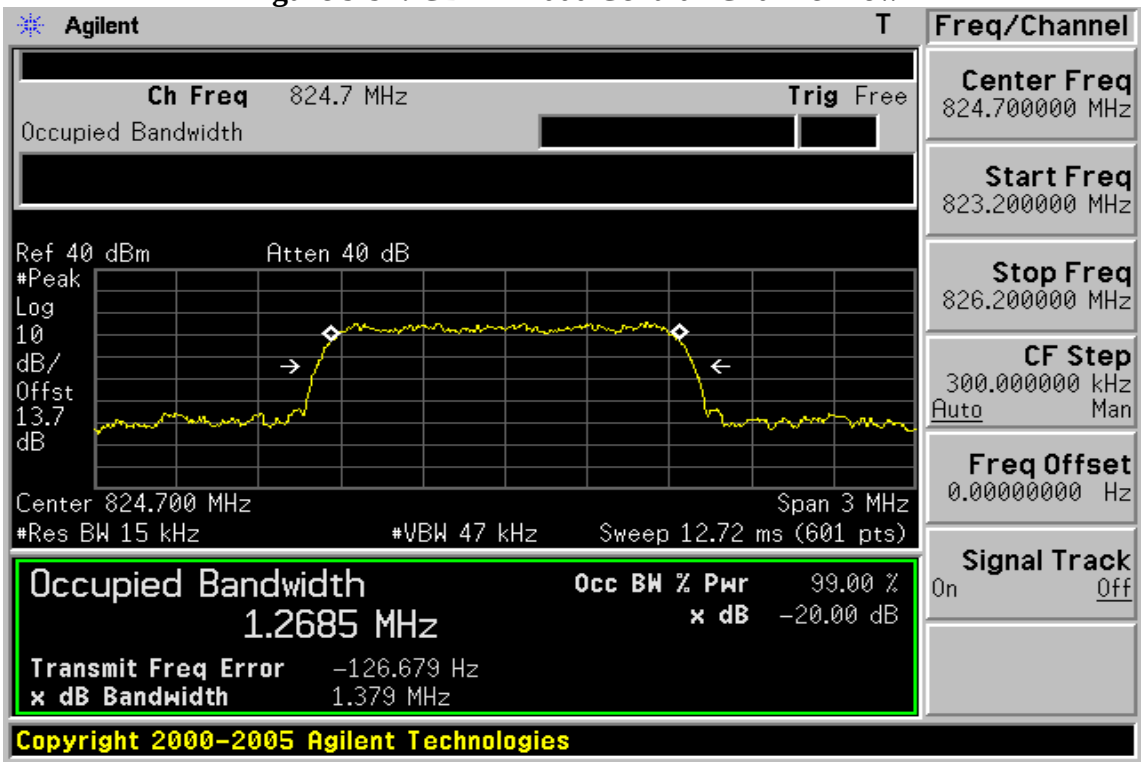


Figure 9-91: CDMA 2000 Cellular Channel Low



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Figure 9-92: CDMA 2000 Cellular Channel Mid

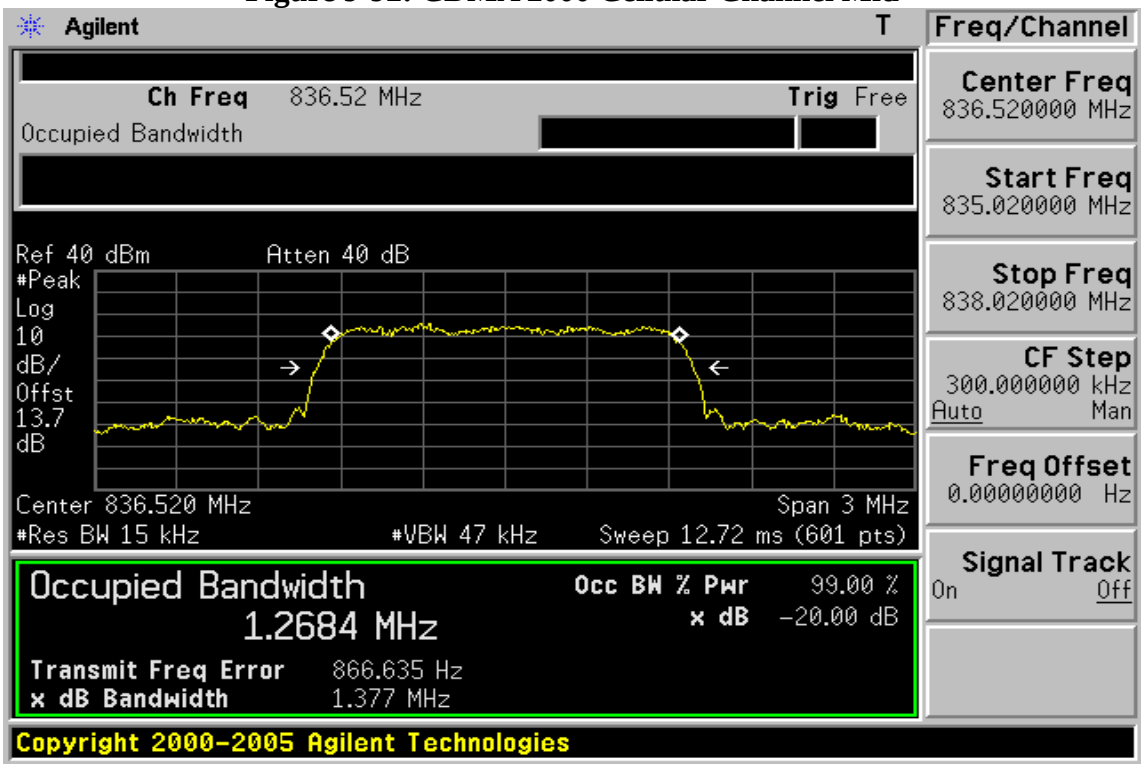
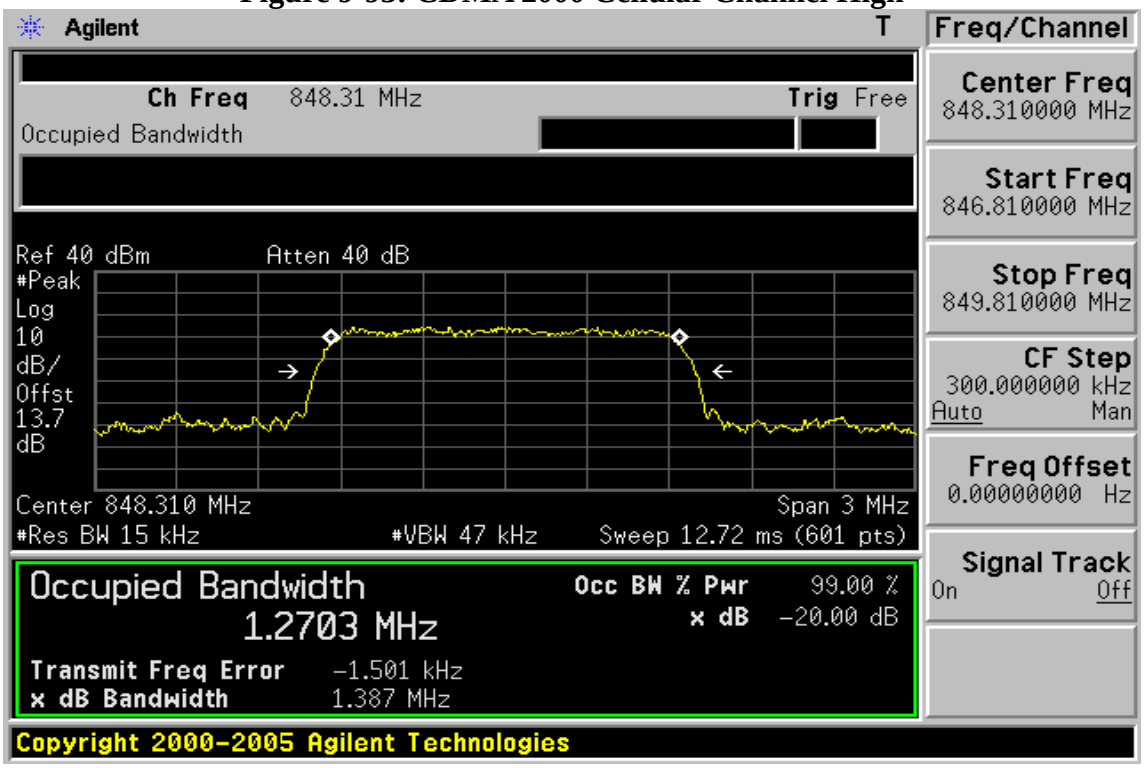


Figure 9-93: CDMA 2000 Cellular Channel High



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Figure 9-94: CDMA 2000 PCS Channel Low

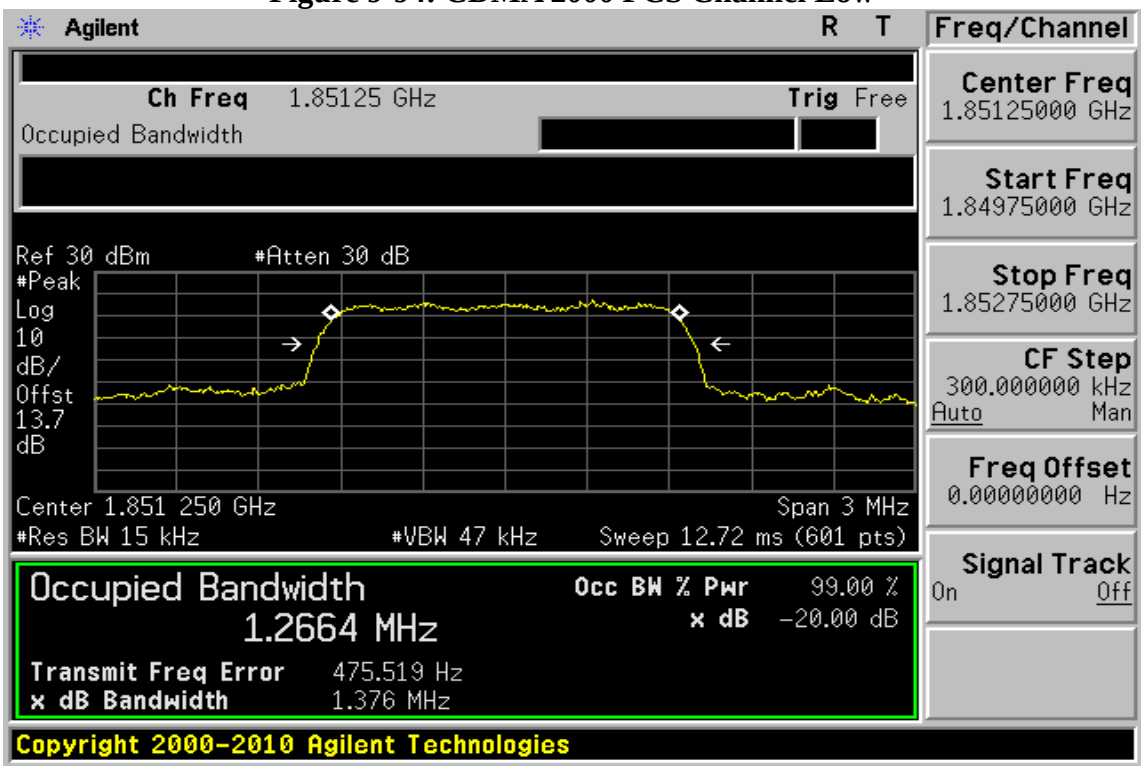
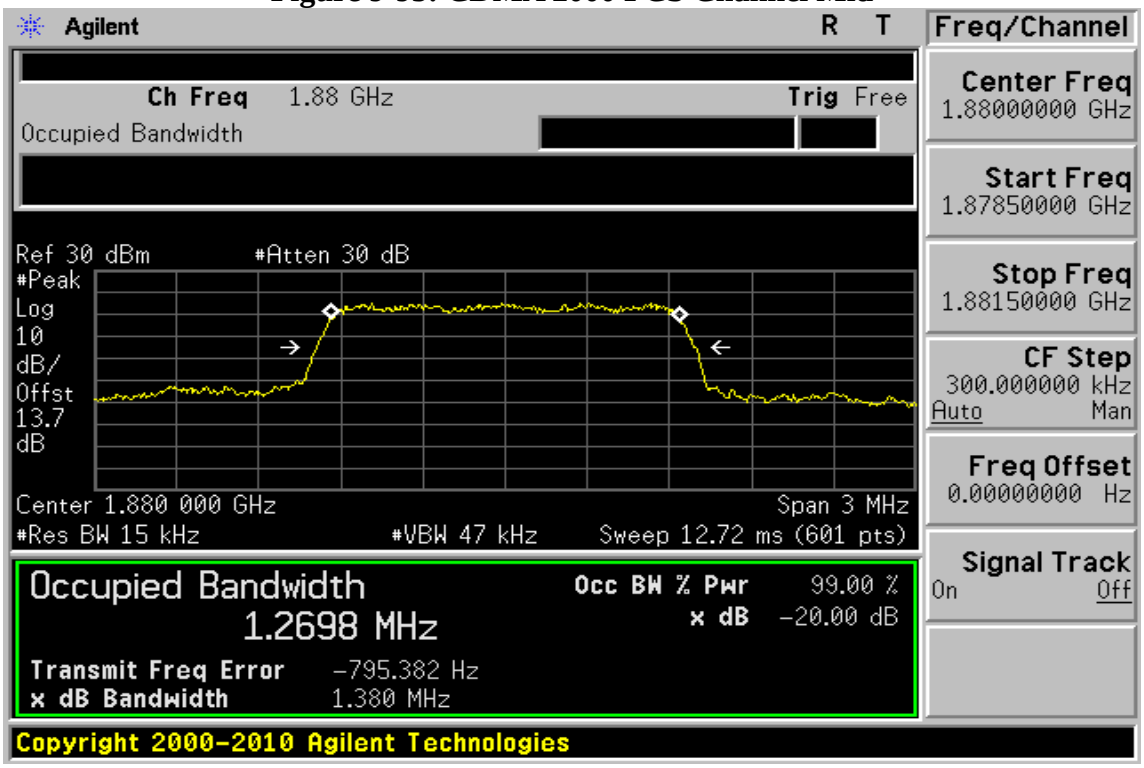


Figure 9-95: CDMA 2000 PCS Channel Mid



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Figure 9-96: CDMA 2000 PCS Channel High

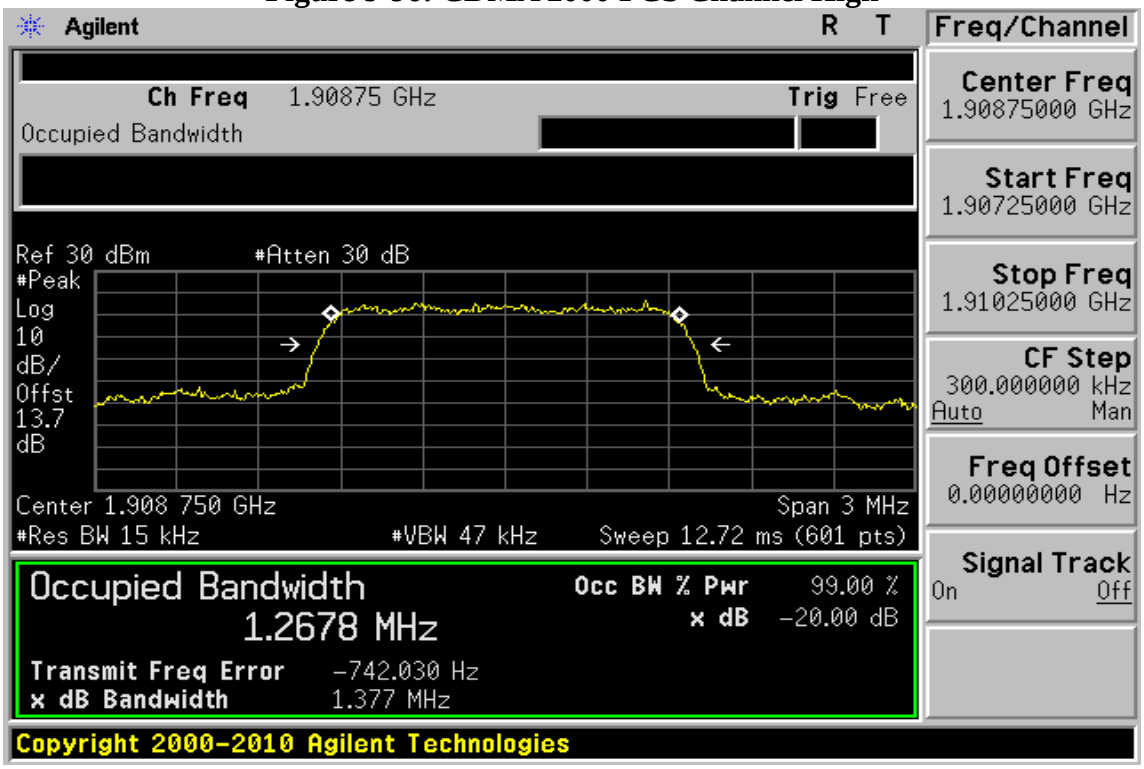
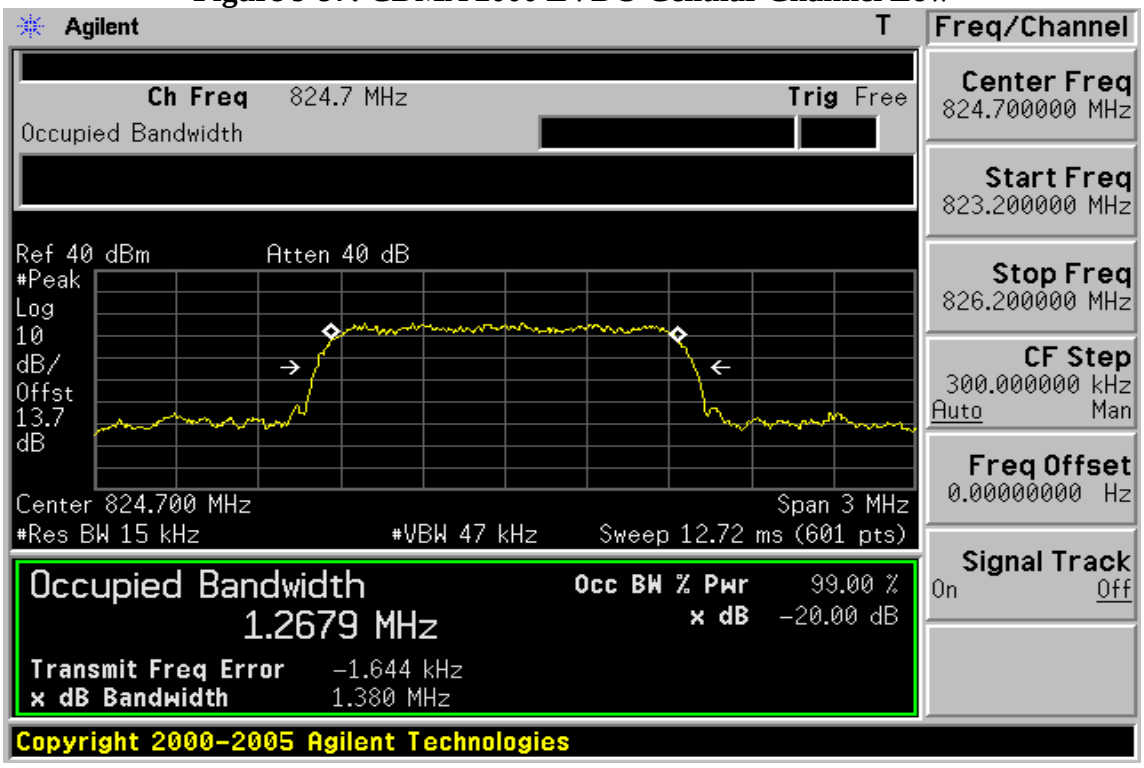


Figure 9-97: CDMA 2000 EVDO Cellular Channel Low



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Figure 9-98: CDMA 2000 EVDO Cellular Channel Mid

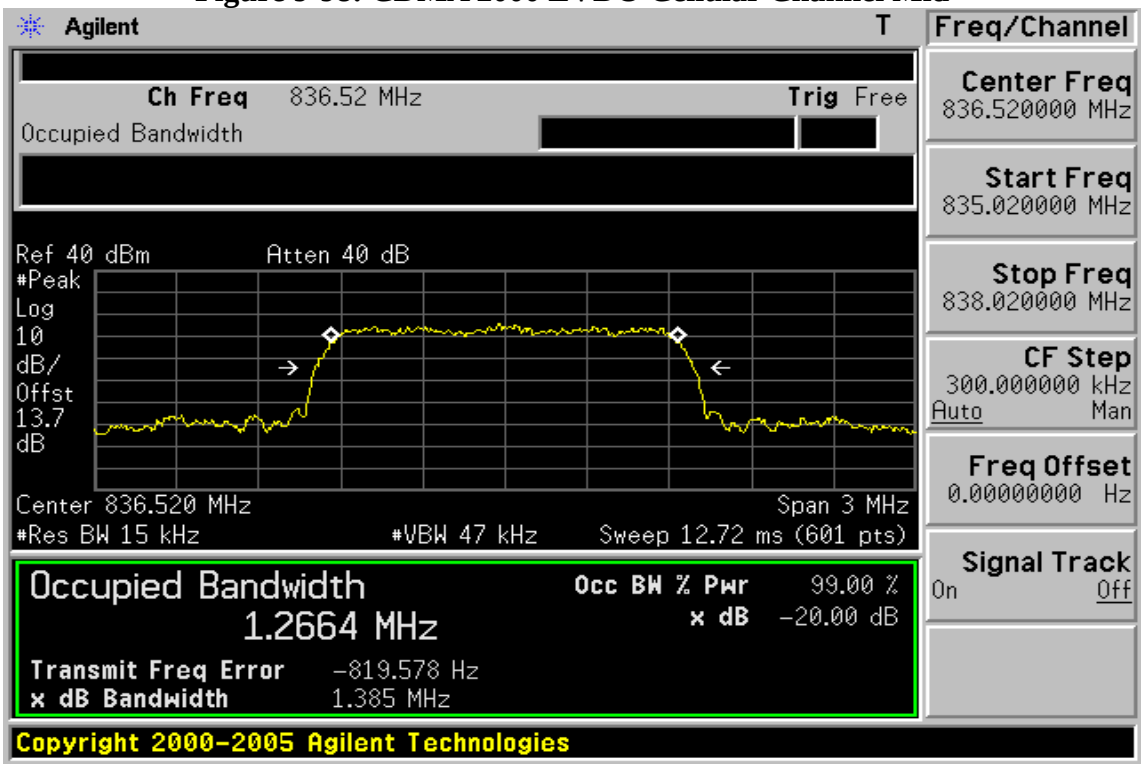
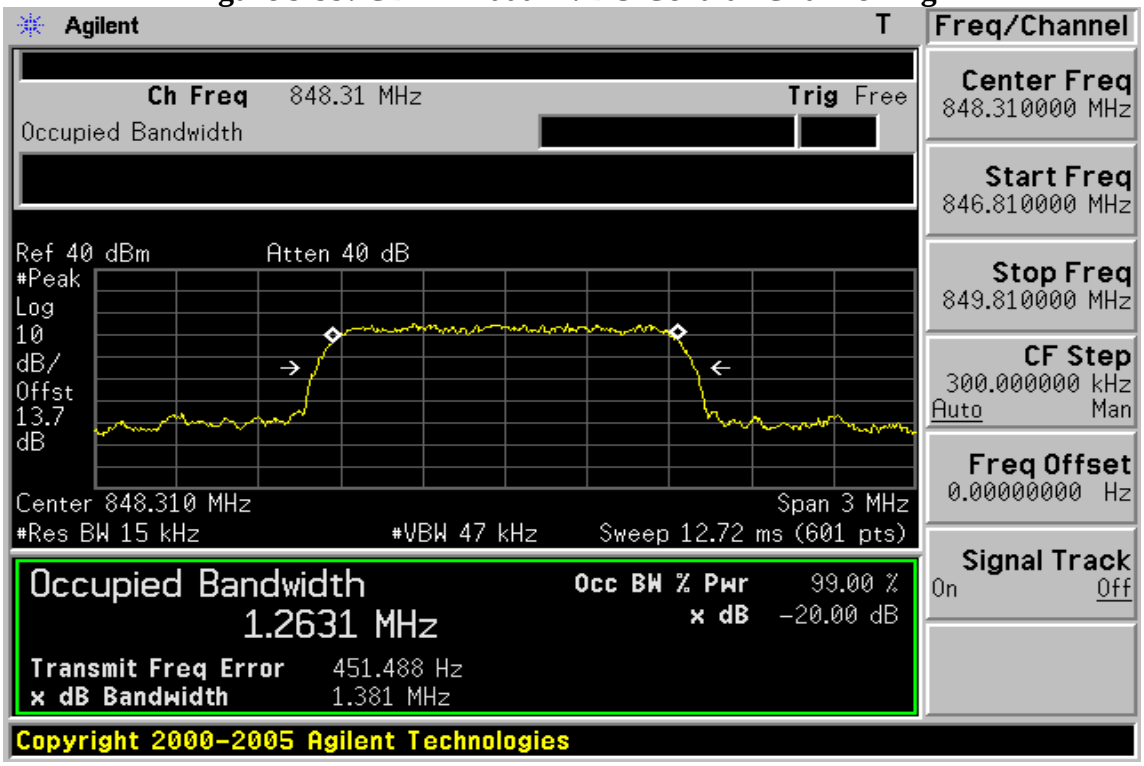


Figure 9-99: CDMA 2000 EVDO Cellular Channel High



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Figure 9-100: CDMA 2000 EVDO Channel Low

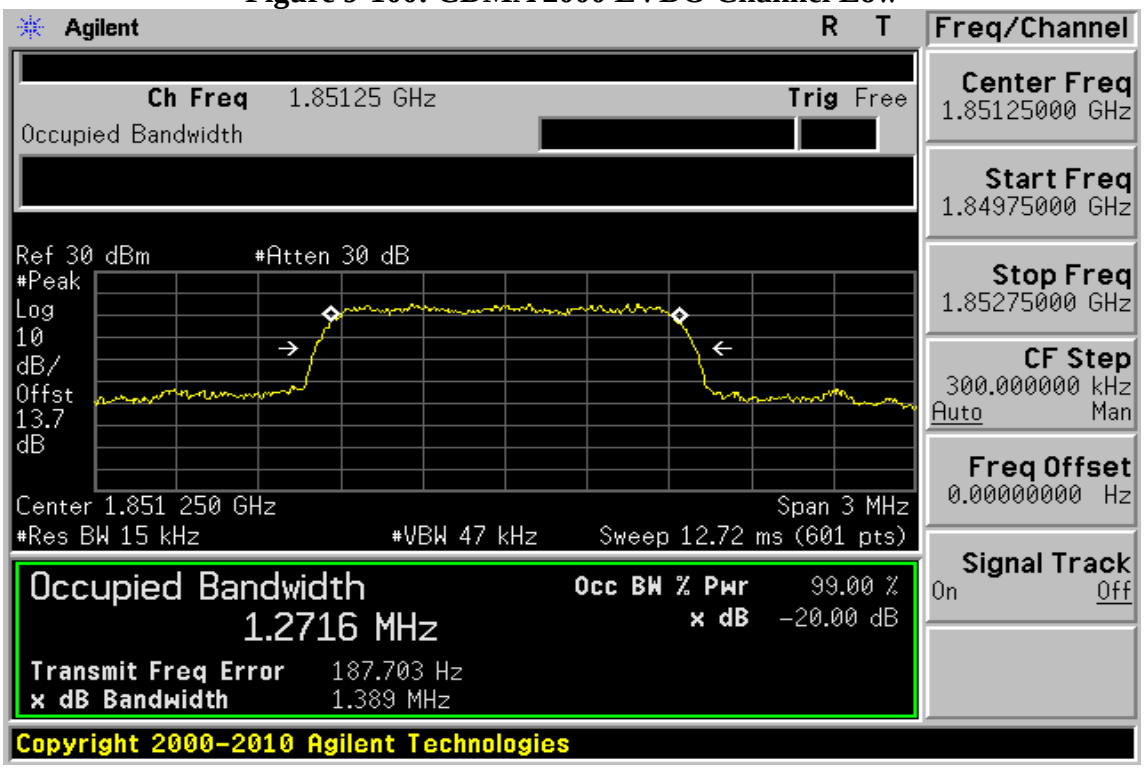
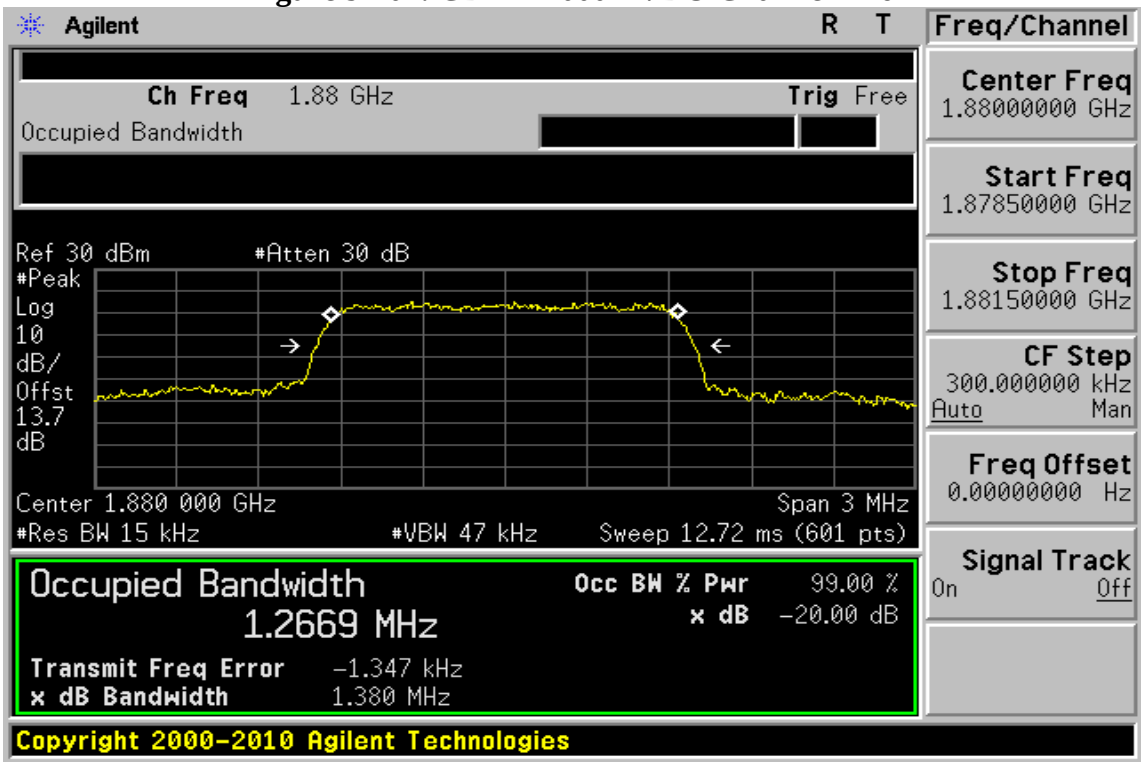


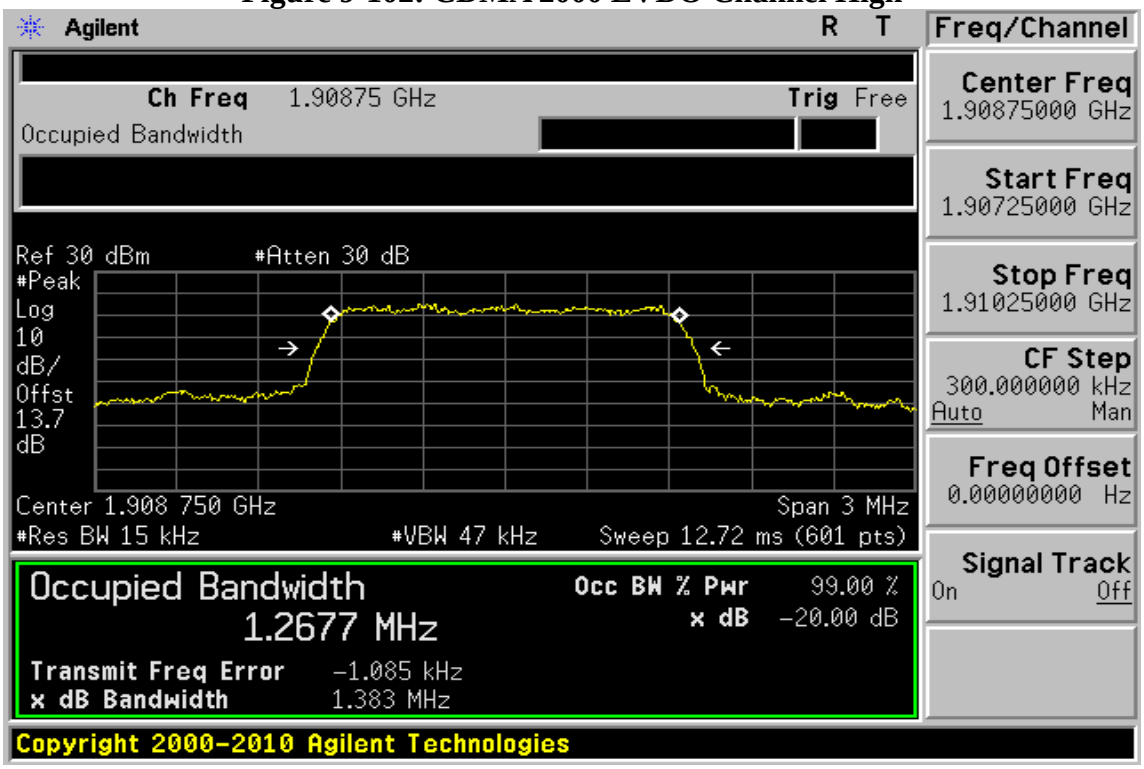
Figure 9-101: CDMA 2000 EVDO Channel Mid



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Figure 9-102: CDMA 2000 EVDO Channel High



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10. OUT OF BAND EMISSION AT ANTENNA TERMINALS

10.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), §27.53(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).

According to RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts).

(ii)

After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p(watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p(watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

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According to RSS-139 §6.5

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log10(P), dB. Limit = 13dBm

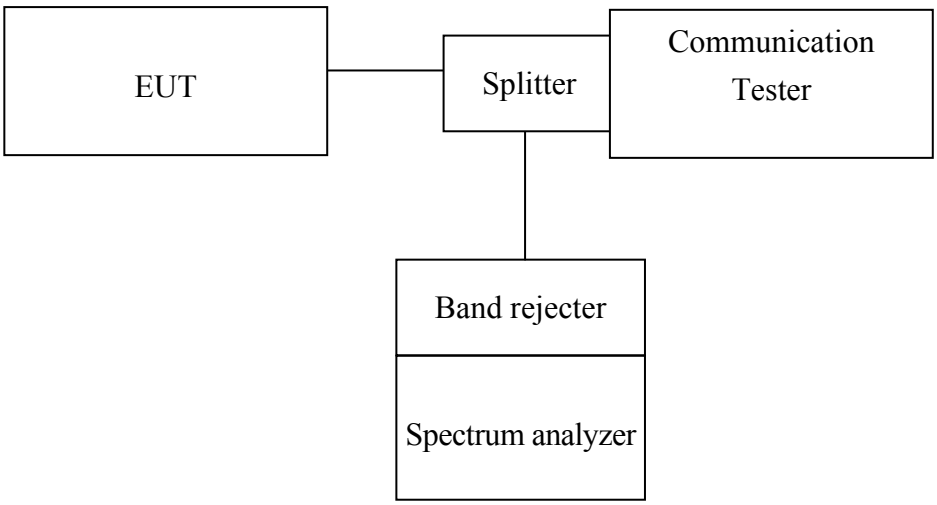
(ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log10(P), dB. Limit = -13dBm

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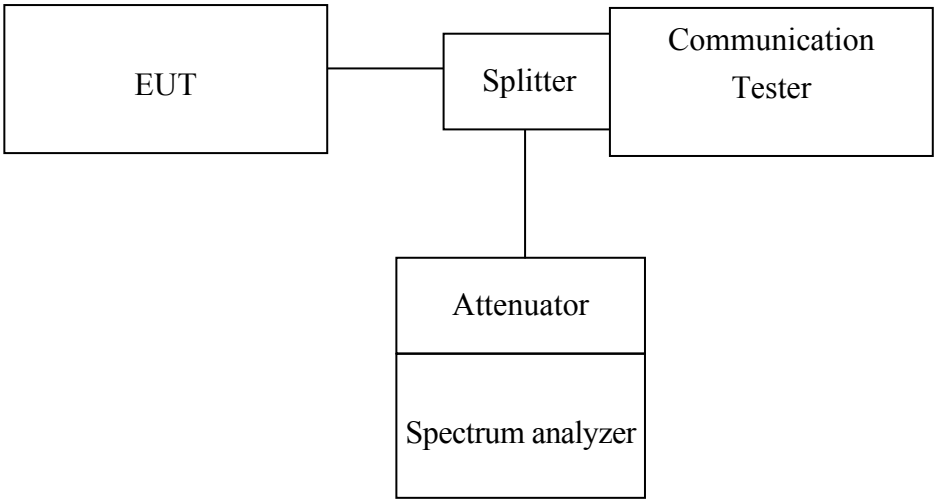
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10.2. Test SET-UP:

Out of band emission



Band Edge



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10.3. Measurement Procedure:

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

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

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

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

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

Conducted Emission:

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

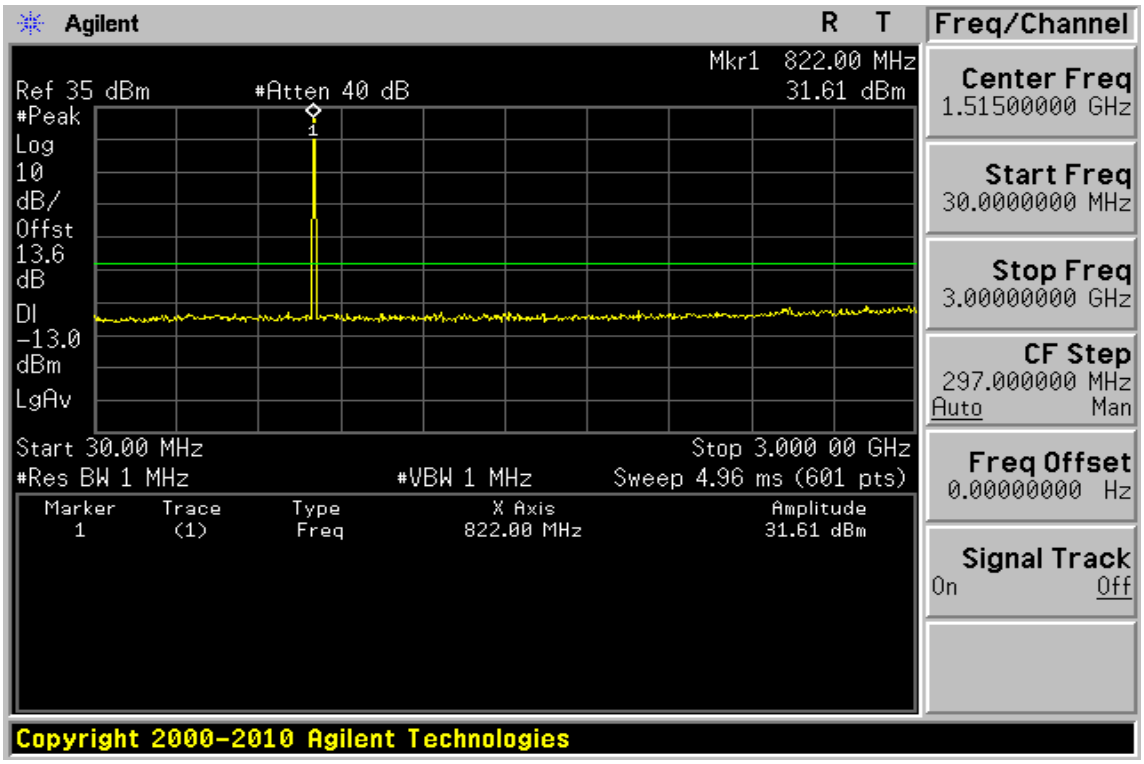
10.4. Measurement Equipment Used:

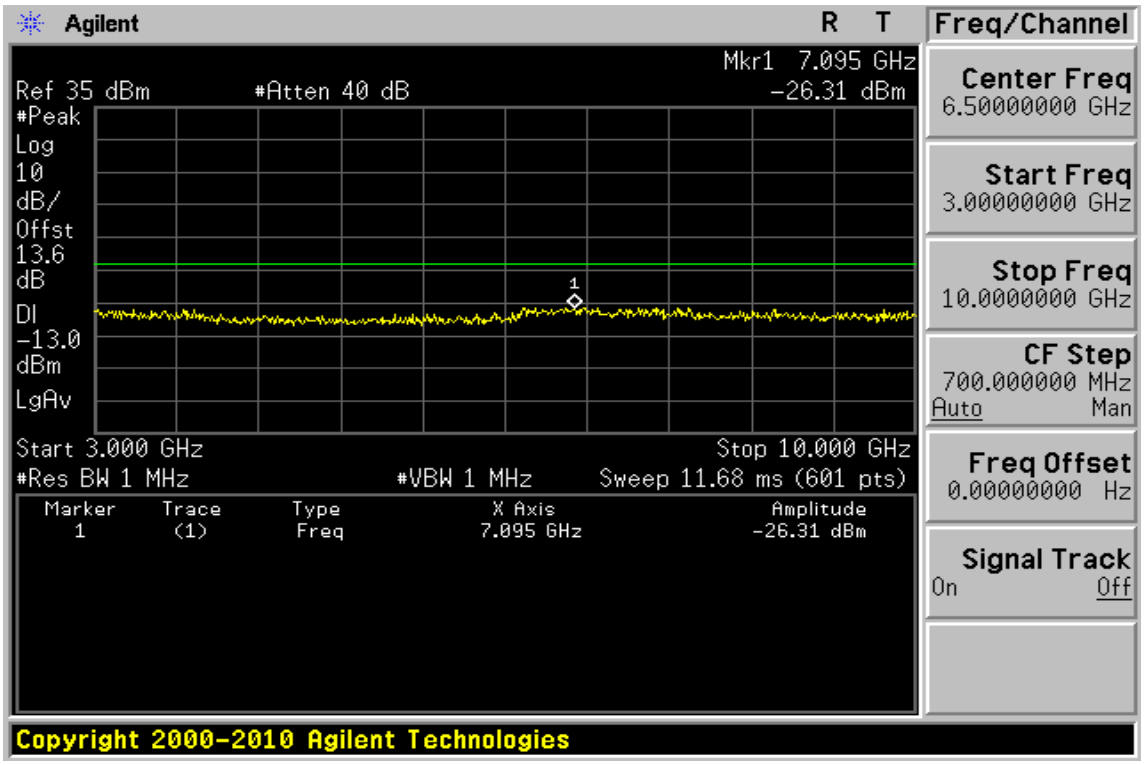
Refer to section 2.4 in this report

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10.5. Measurement Result:

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

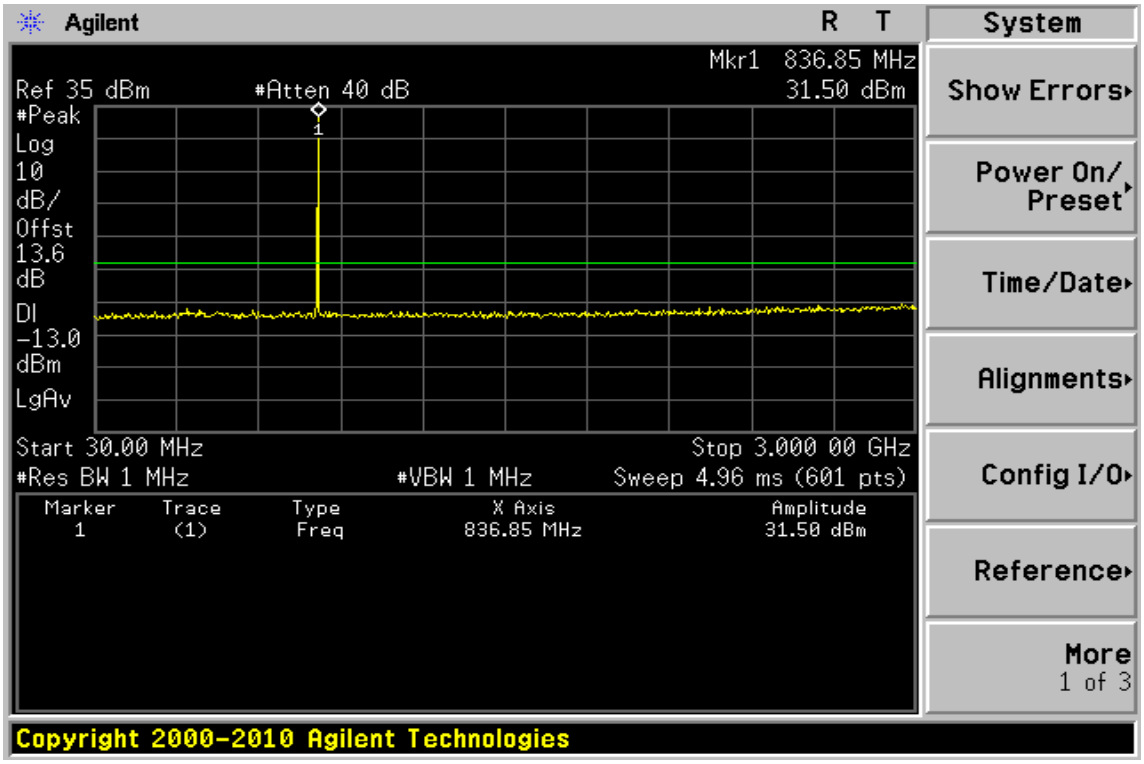


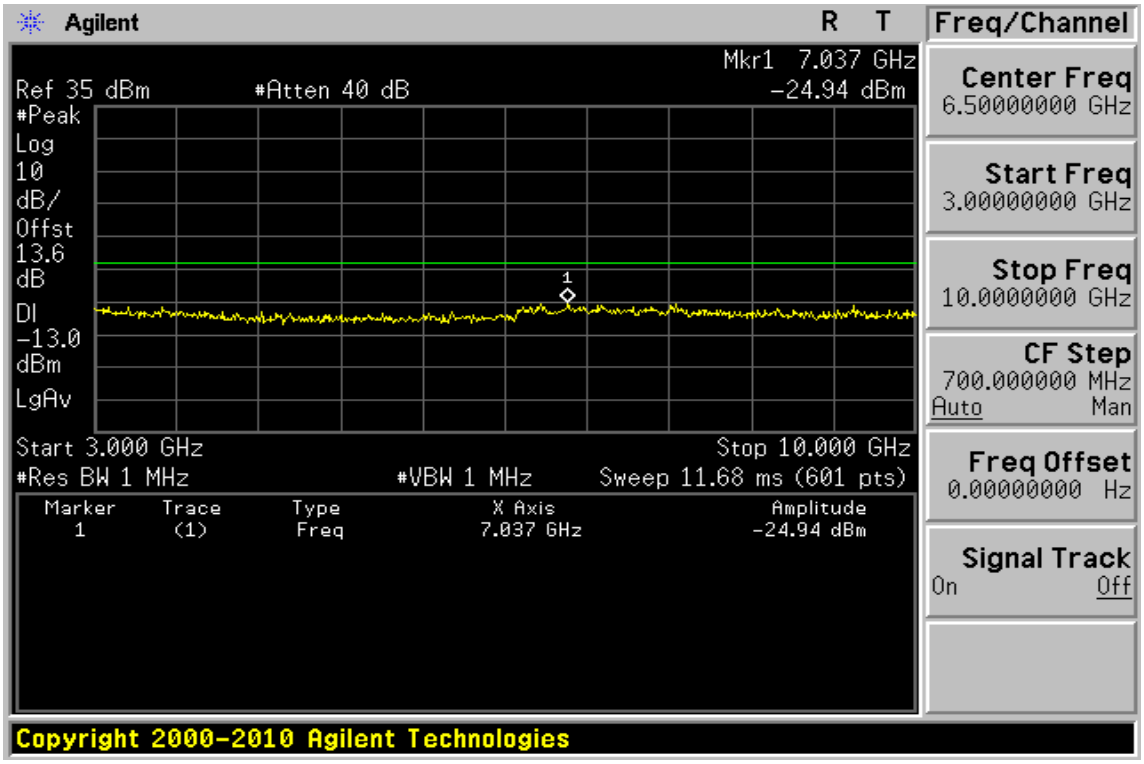


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Figure 10-2: Out of Band emission at antenna terminals – GPRS 850 Channel Mid

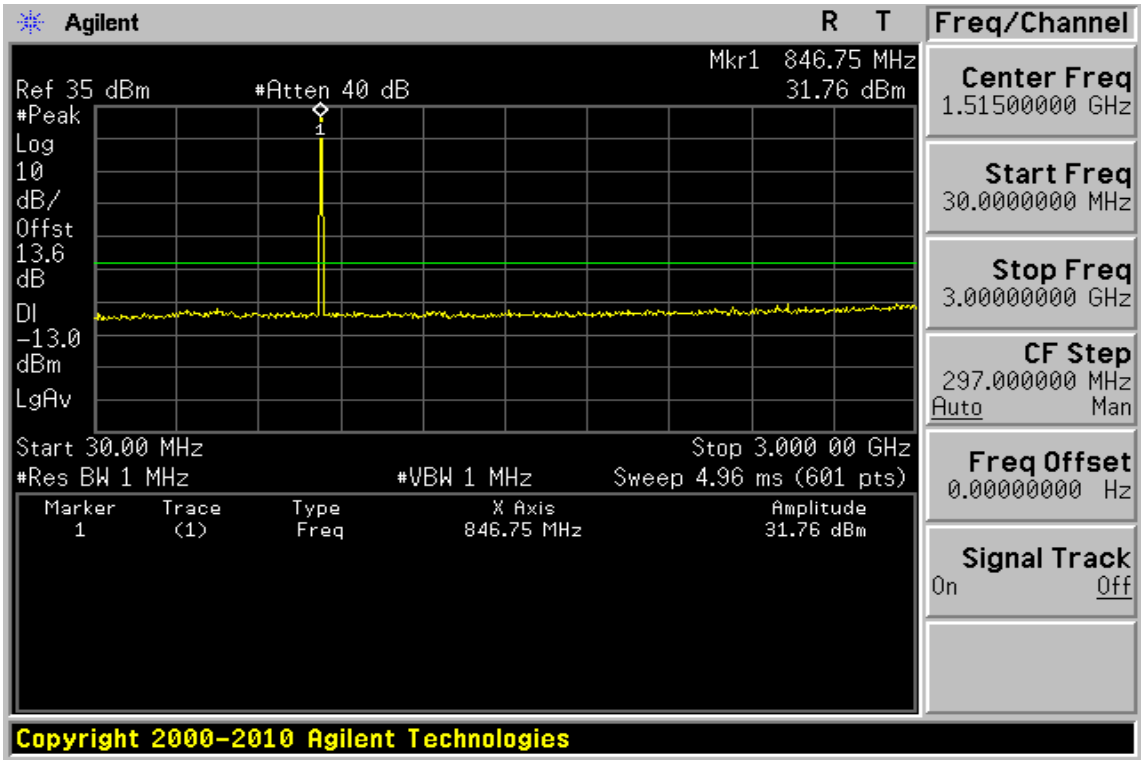


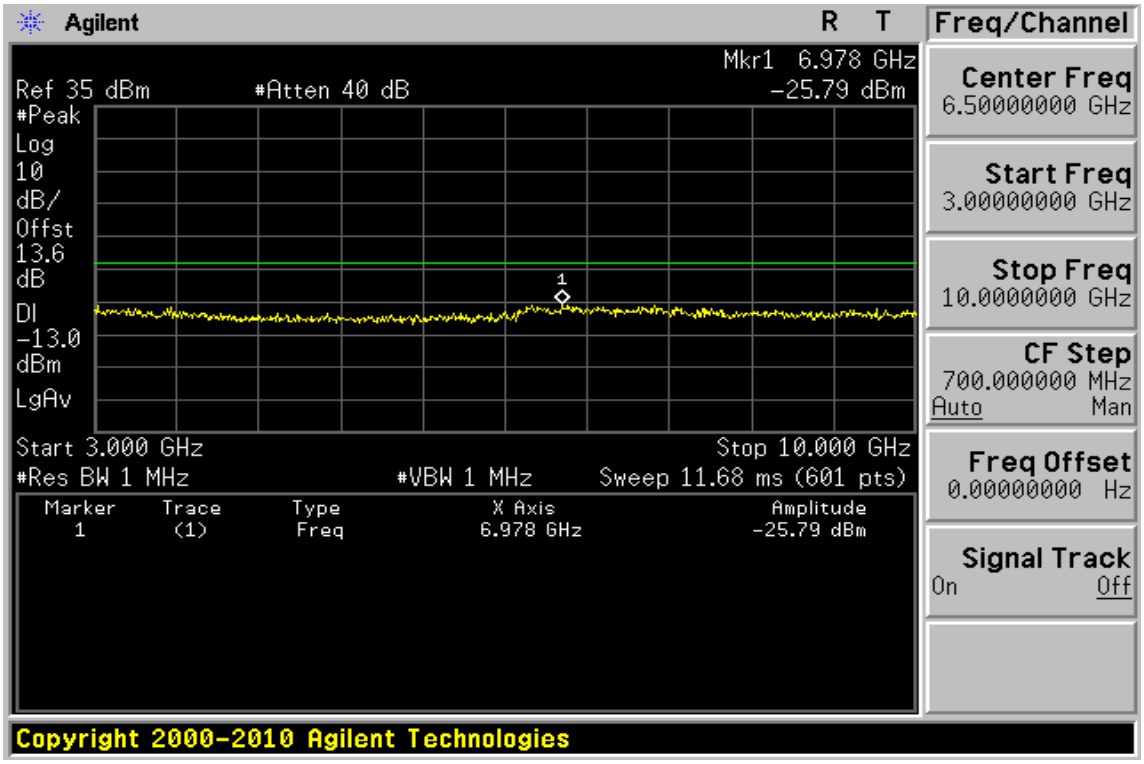


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Figure 10-3: Out of Band emission at antenna terminals – GPRS 850 Channel Highest





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

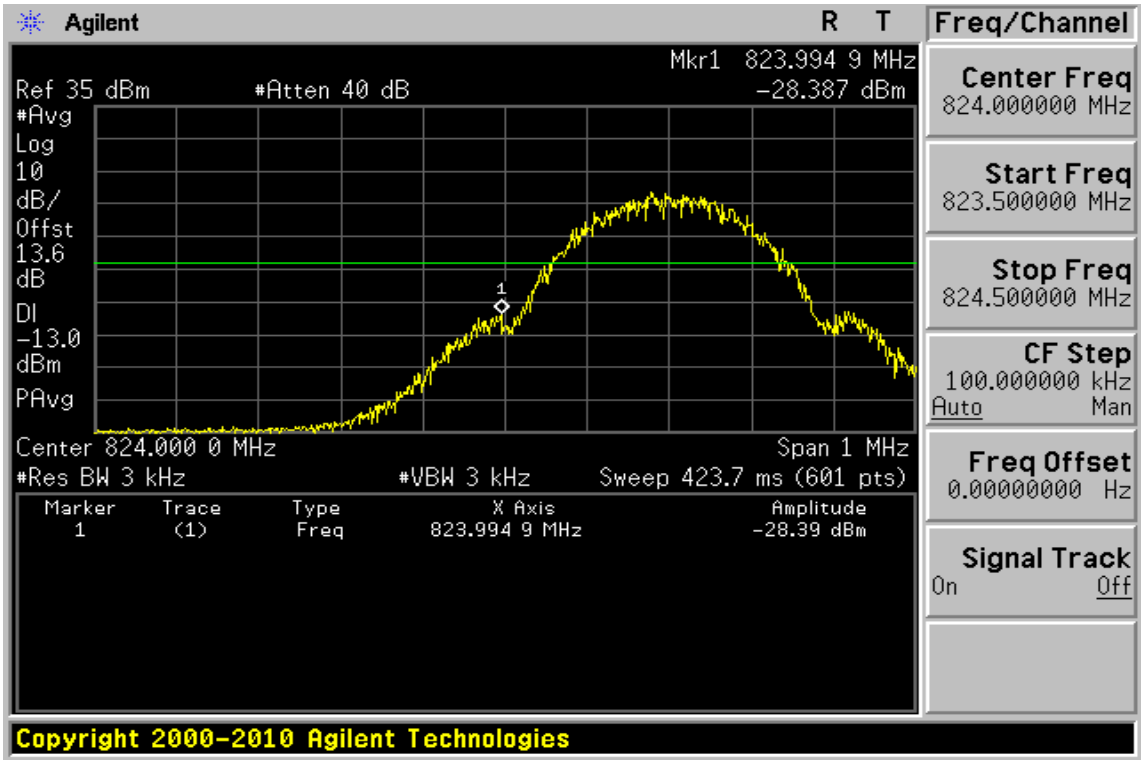
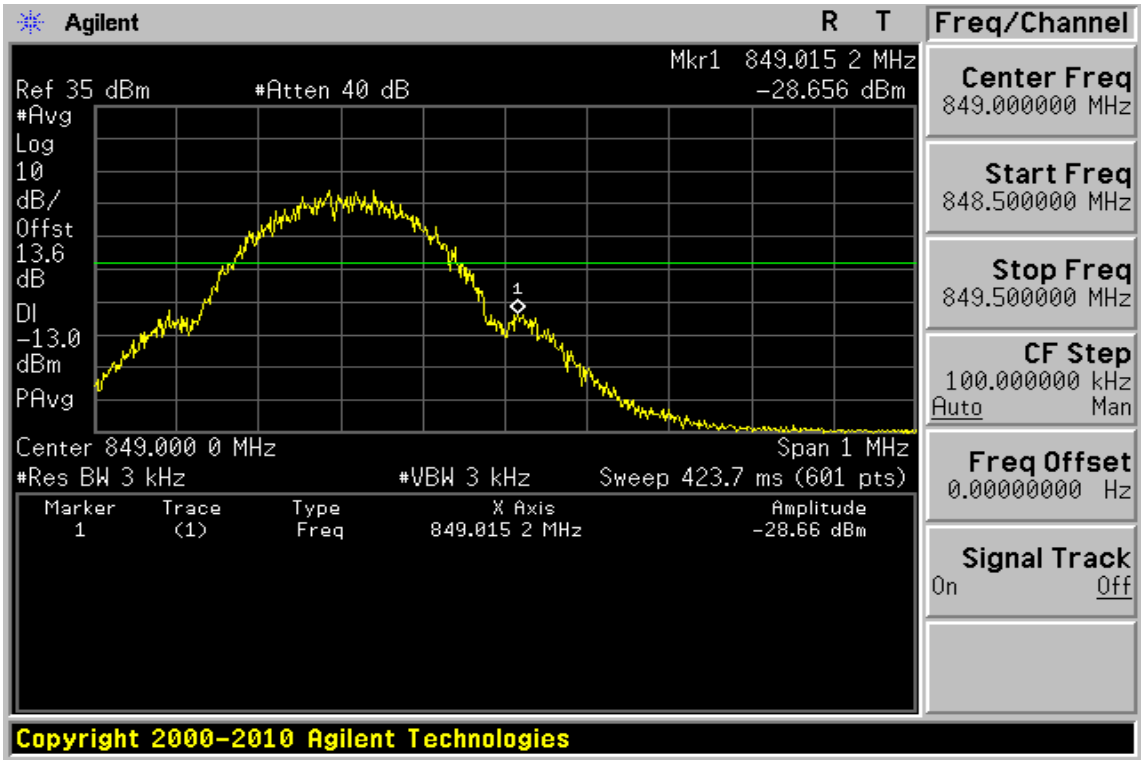


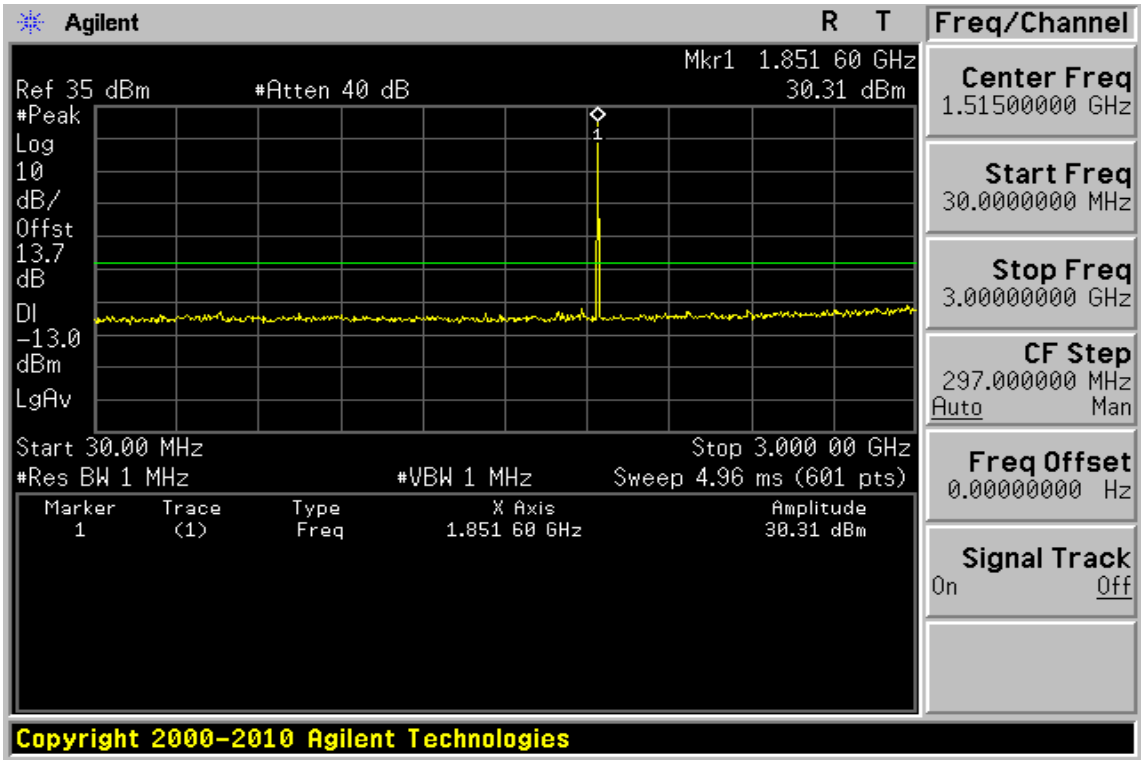
Figure 10-5: Band edge emission at antenna terminals – GPRS 850 Channel Highest

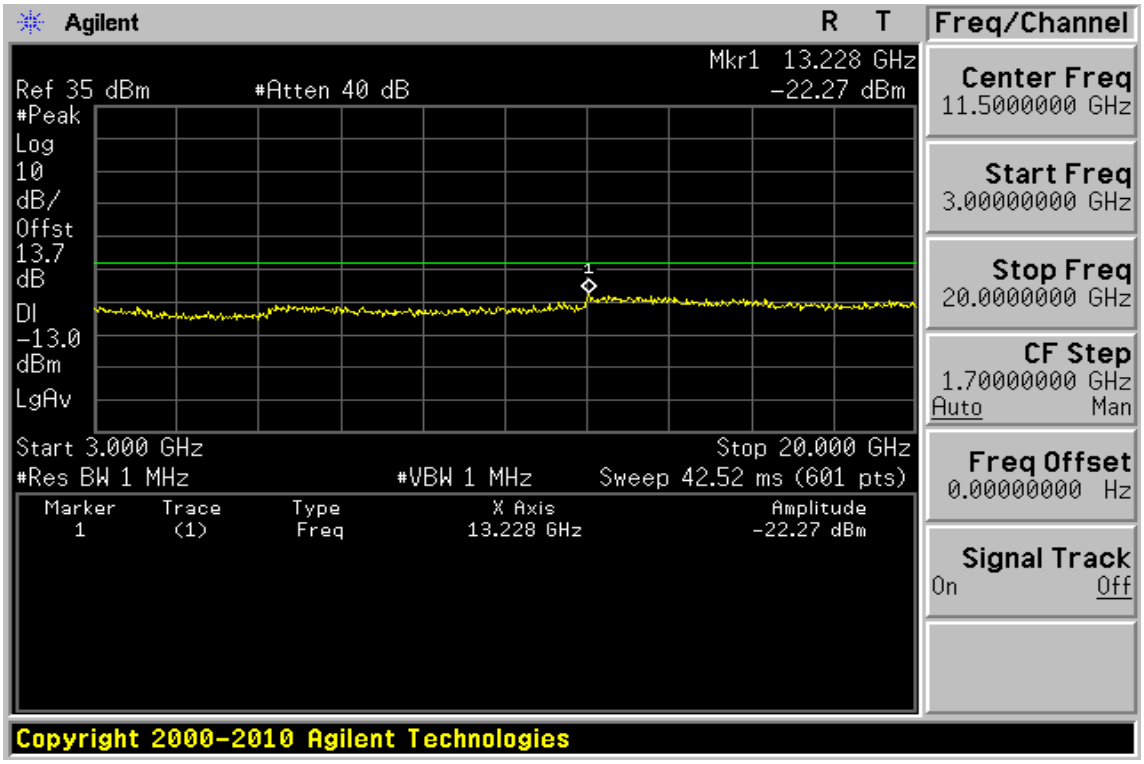


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Figure 10-6: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

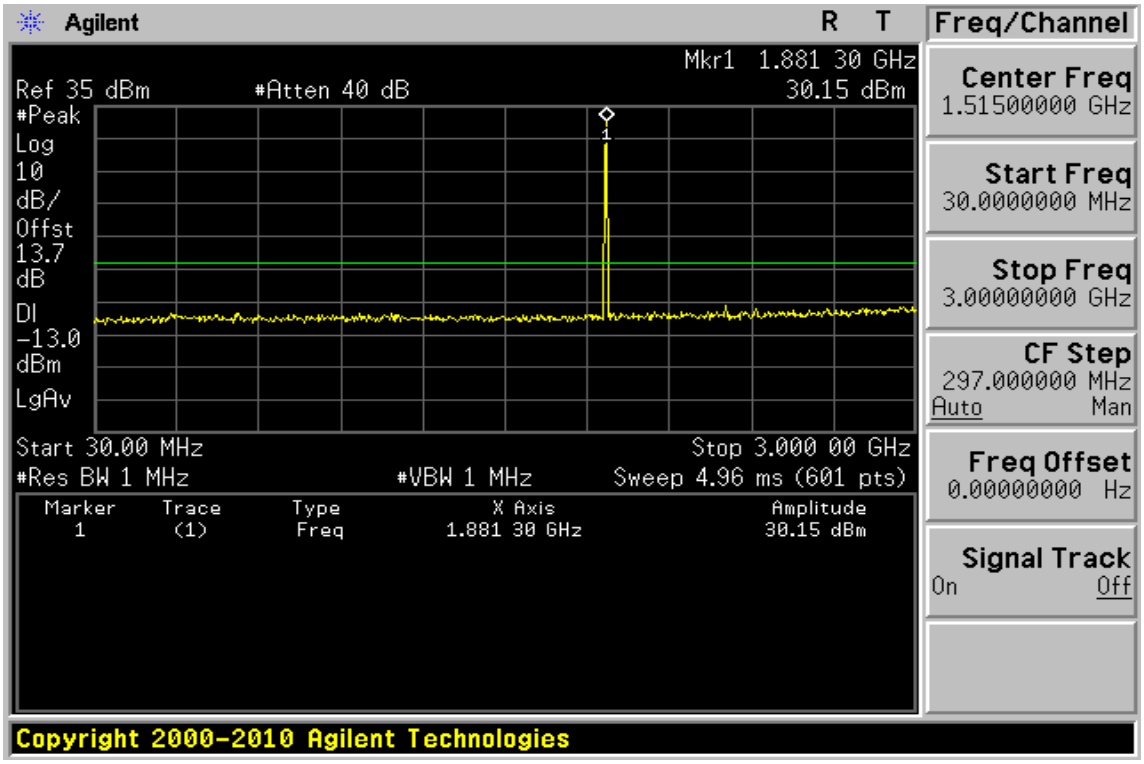


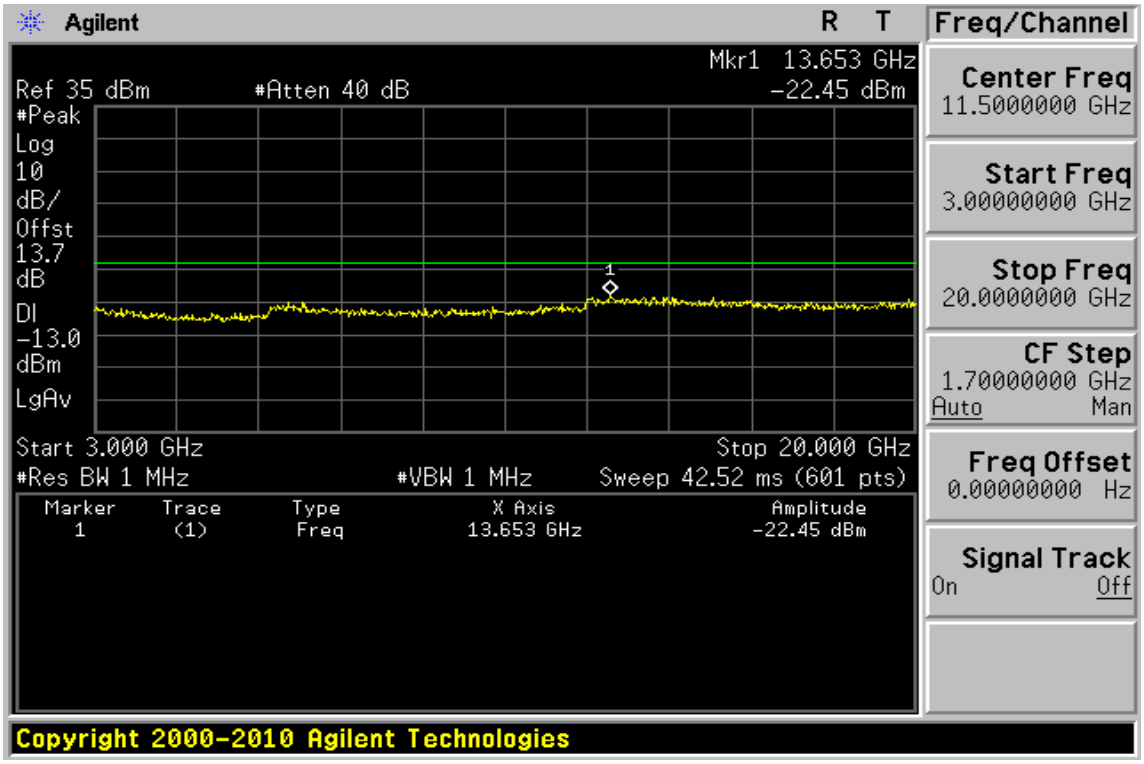


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Figure 10-7: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

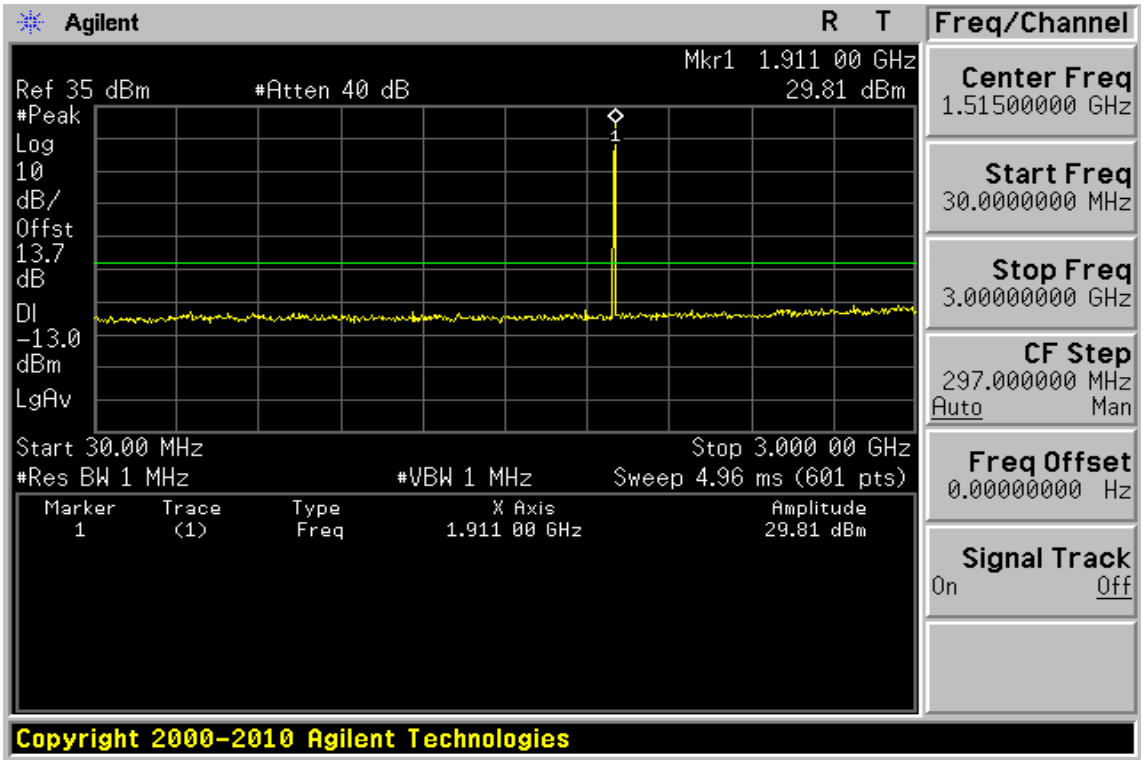


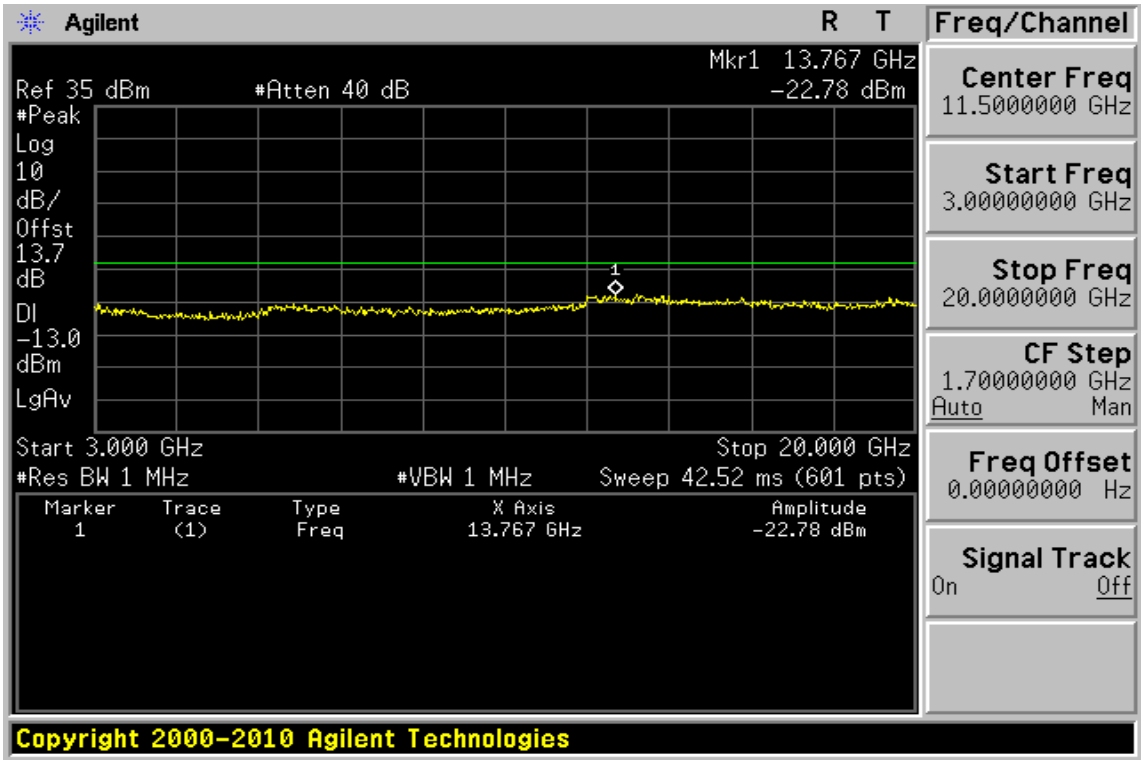


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Figure 10-8: Out of Band emission at antenna terminals – GPRS 1900Channel Highest





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

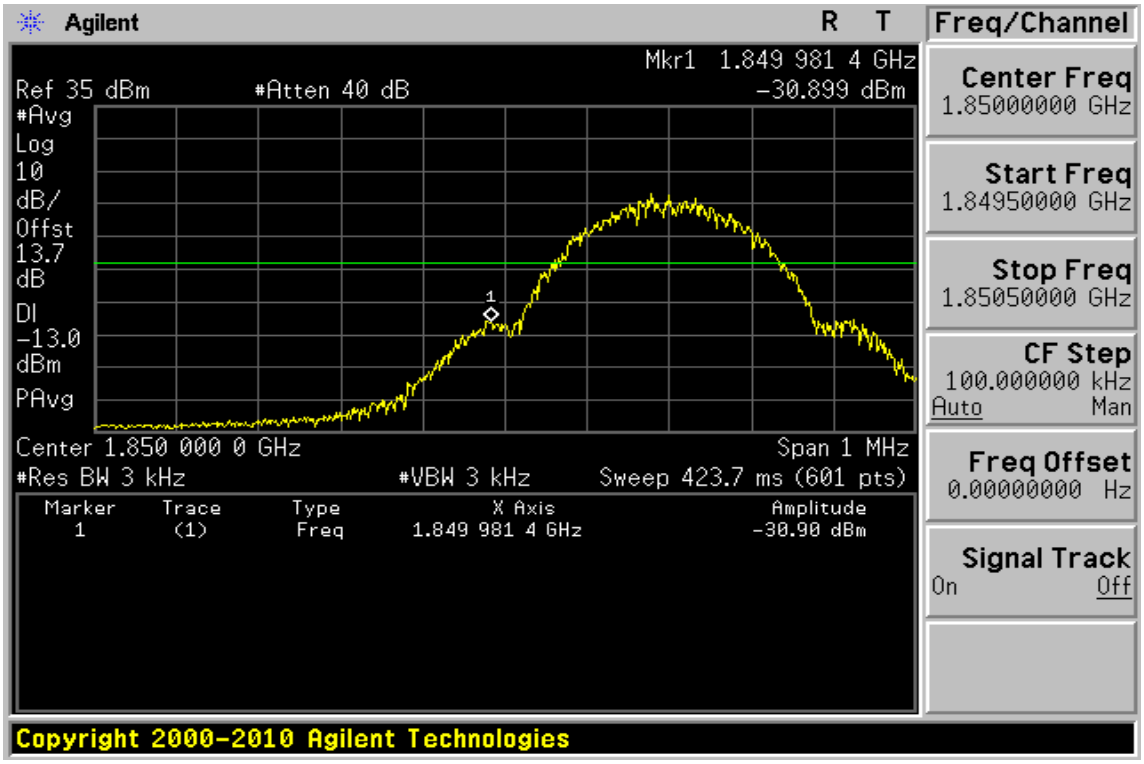
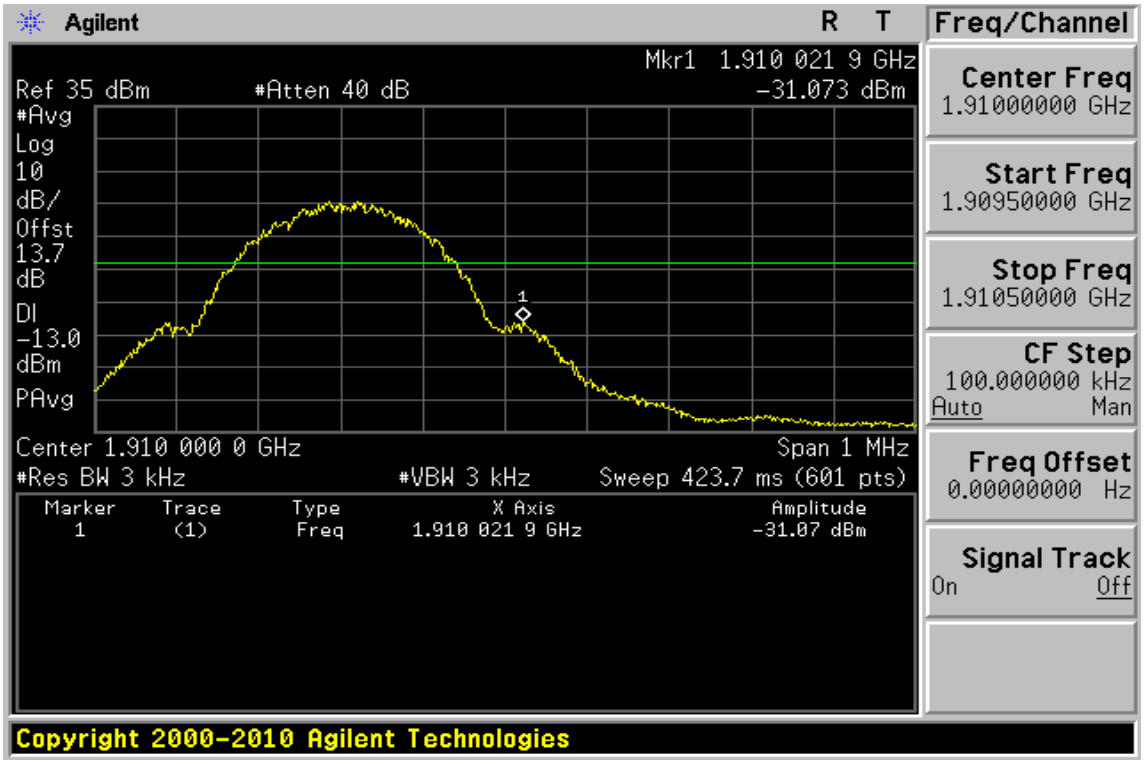


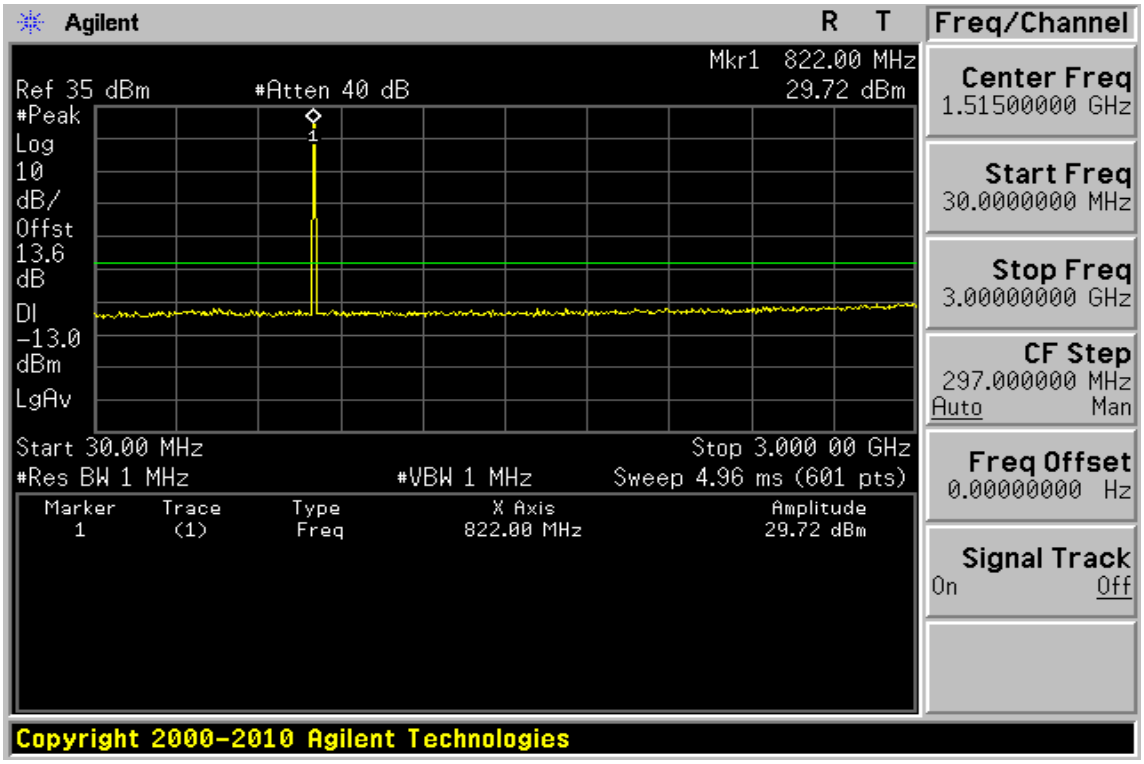
Figure 10-10: Band edge emission at antenna terminals – GPRS 1900Channel Highest

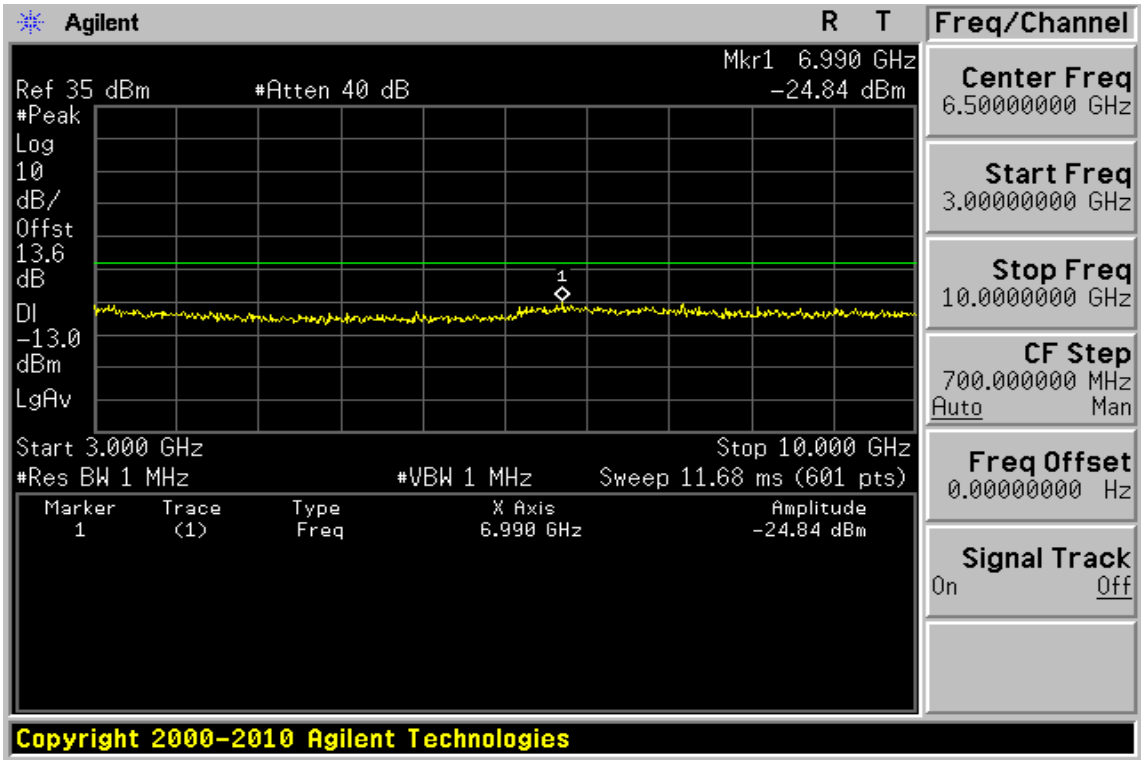


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Figure 10-11: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

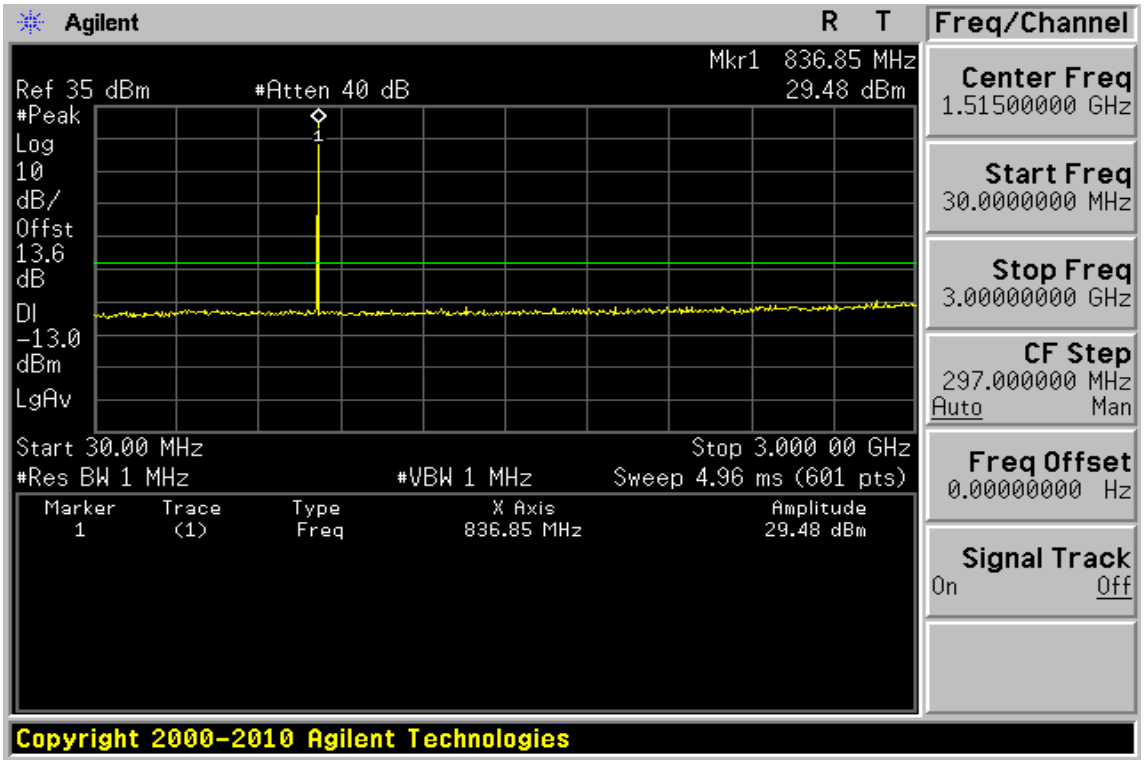


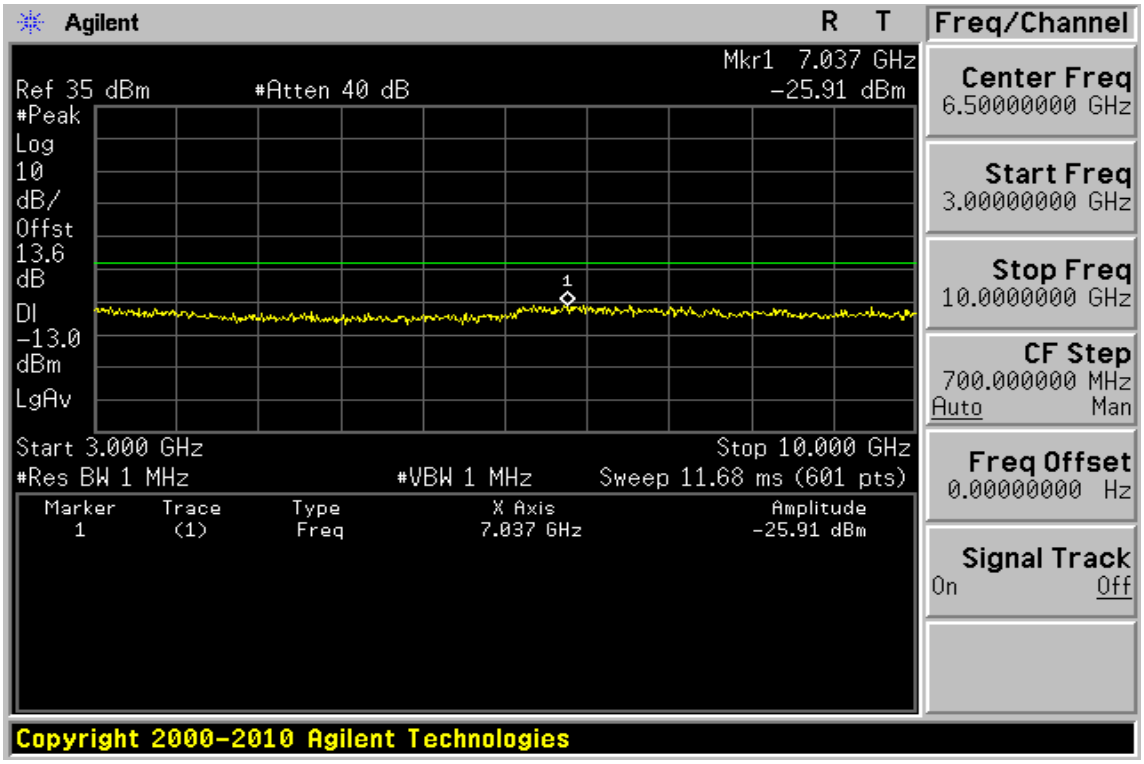


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Figure 10-12: Out of Band emission at antenna terminals – EDGE 850 Channel Mid

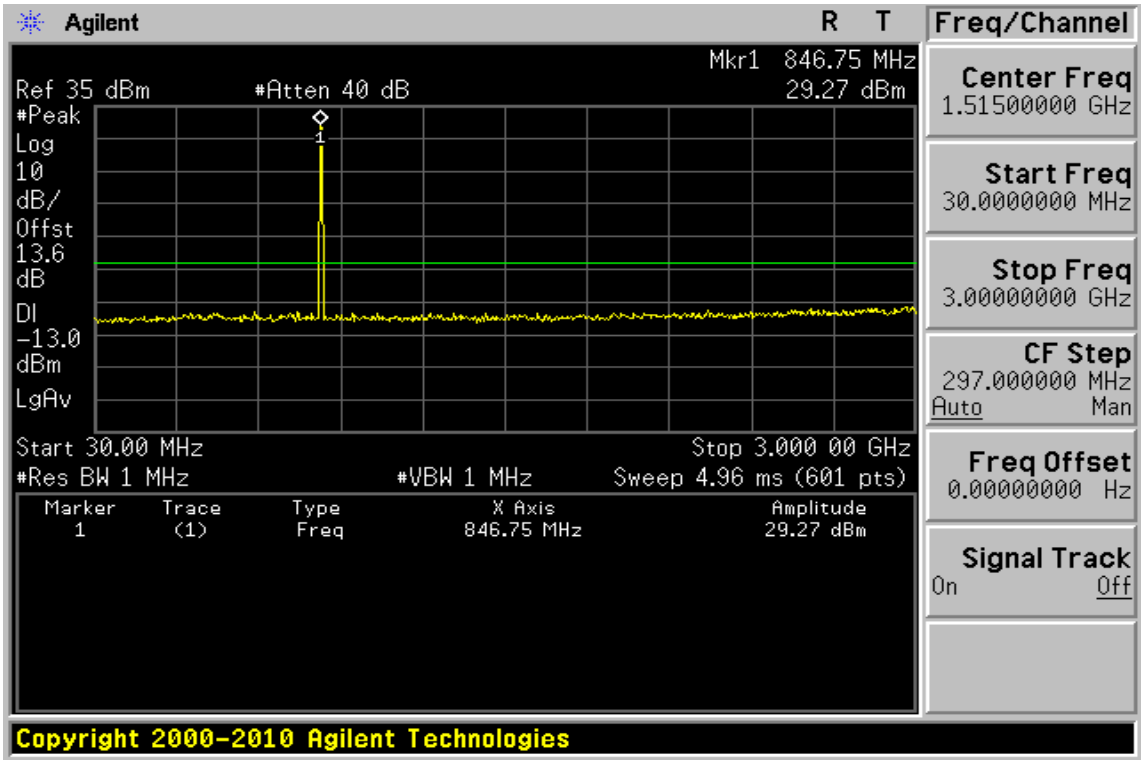


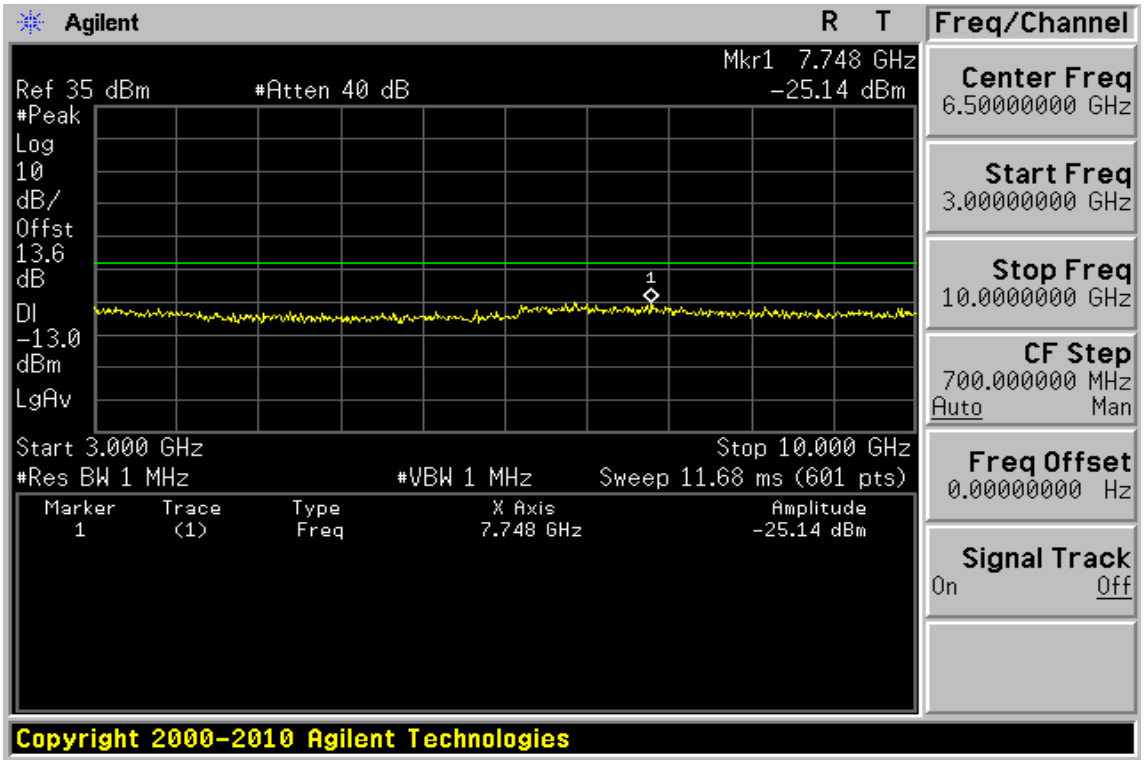


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Figure 10-13: Out of Band emission at antenna terminals – EDGE 850 Channel Highest





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

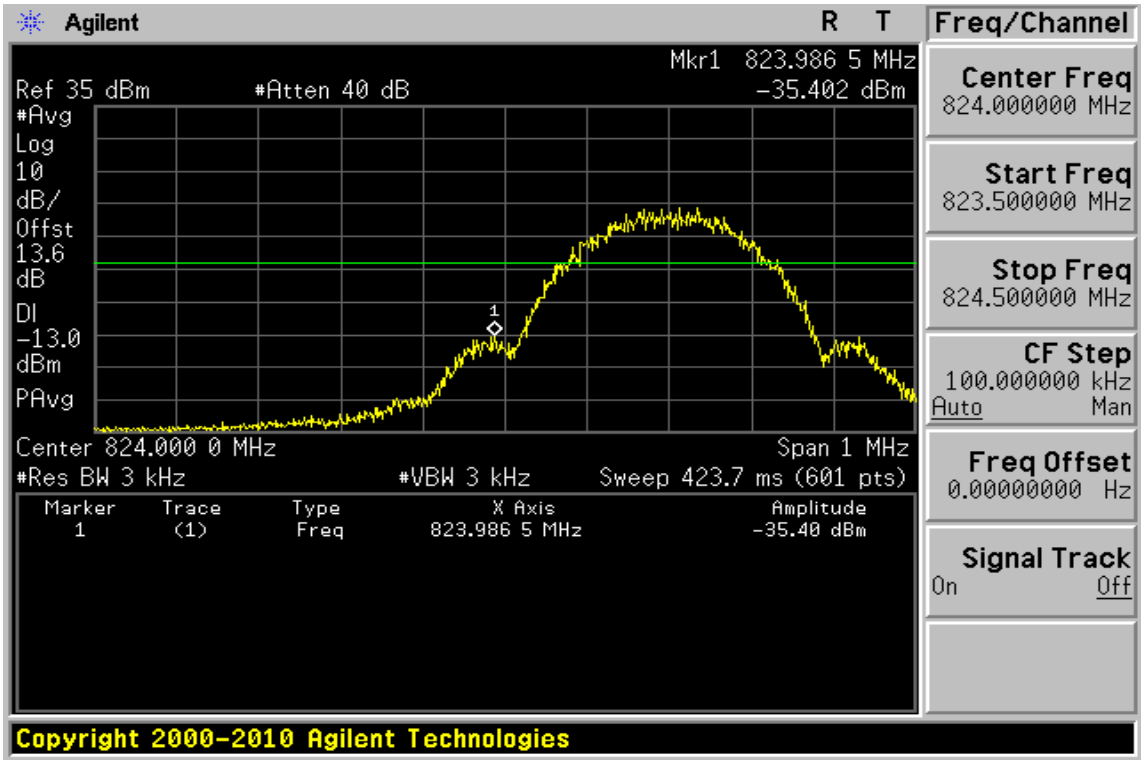
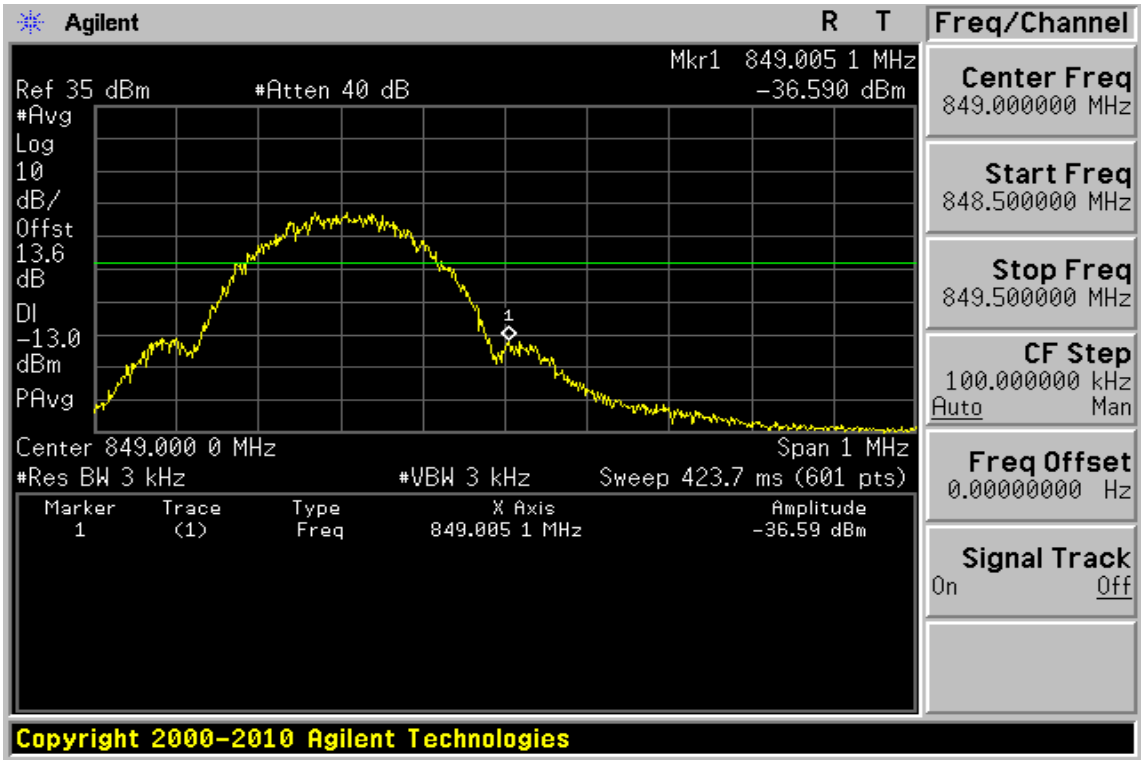


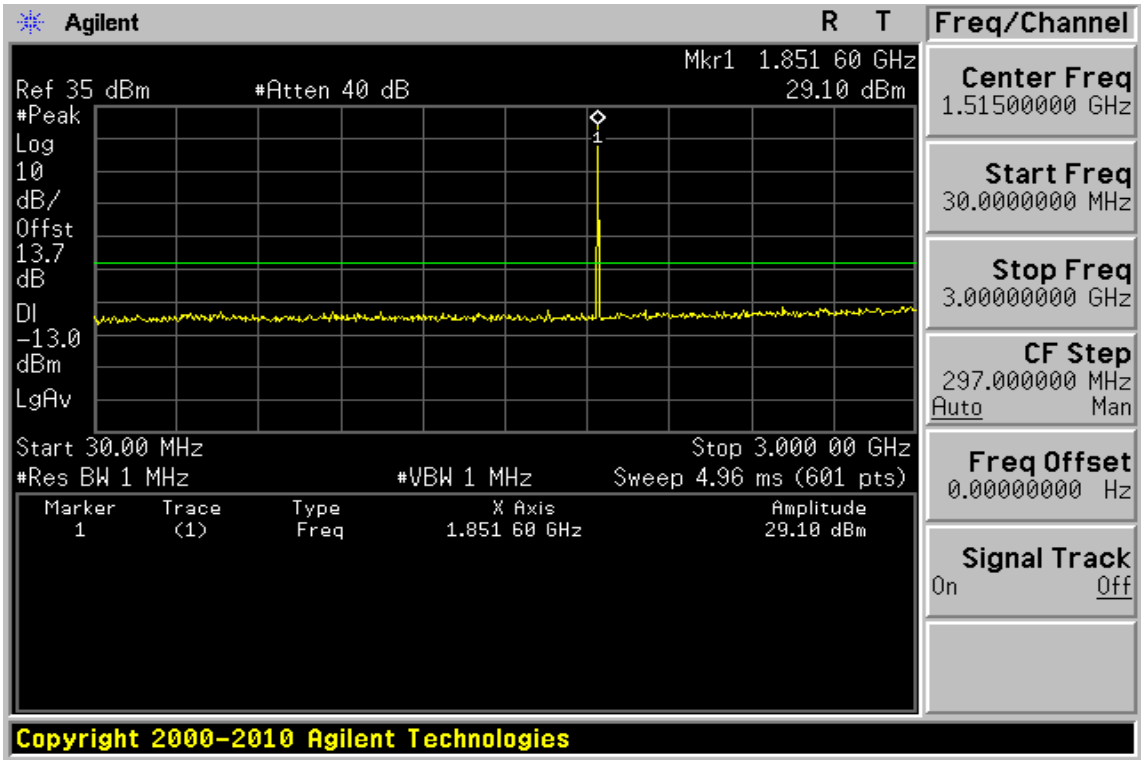
Figure 10-15: Band edge emission at antenna terminals – EDGE 850 Channel Highest

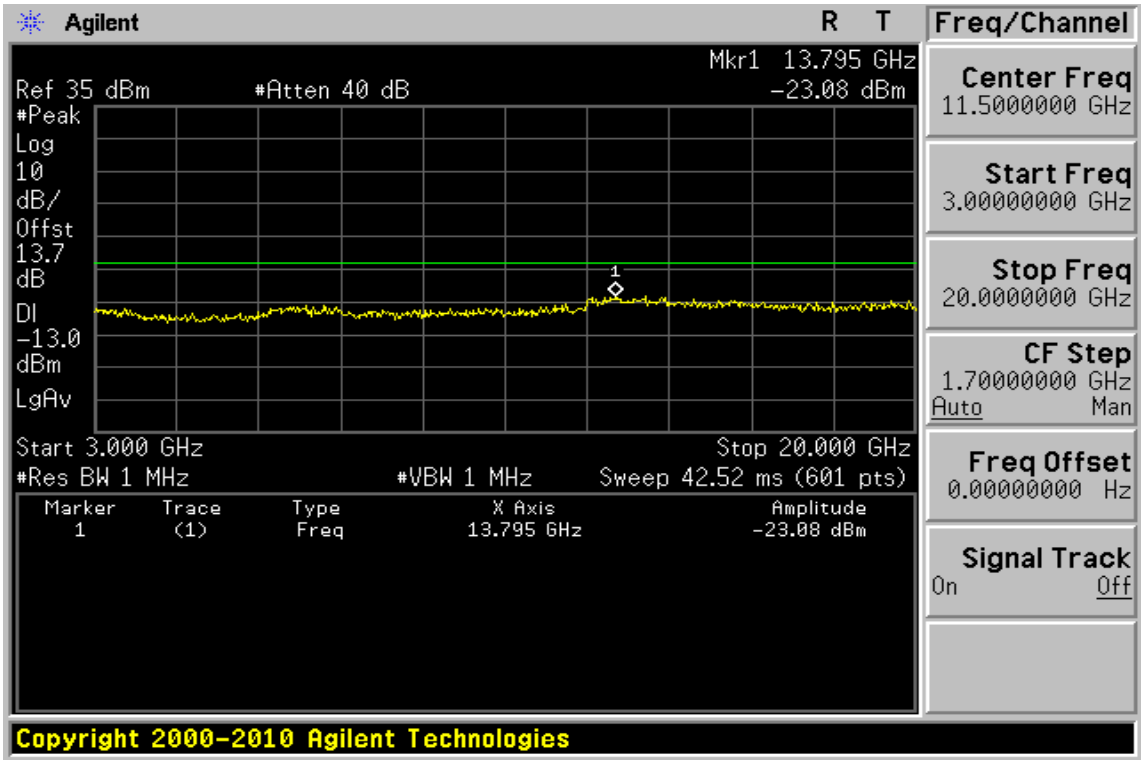


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Figure 10-16: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

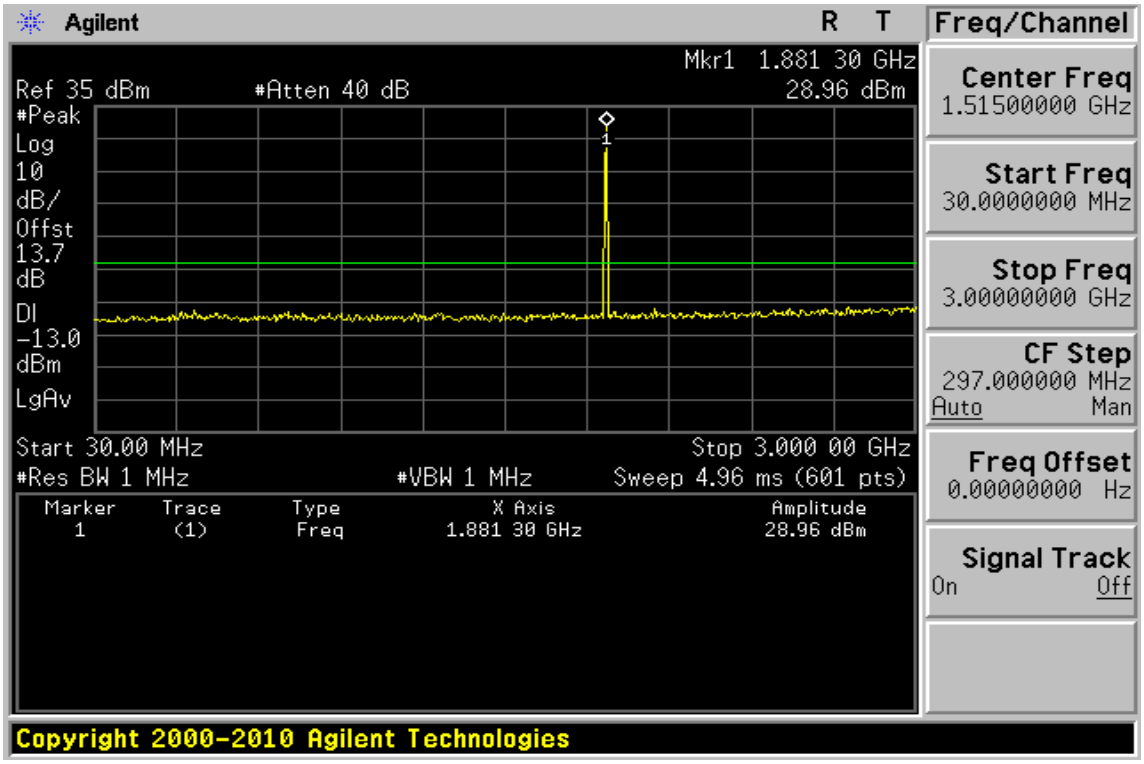


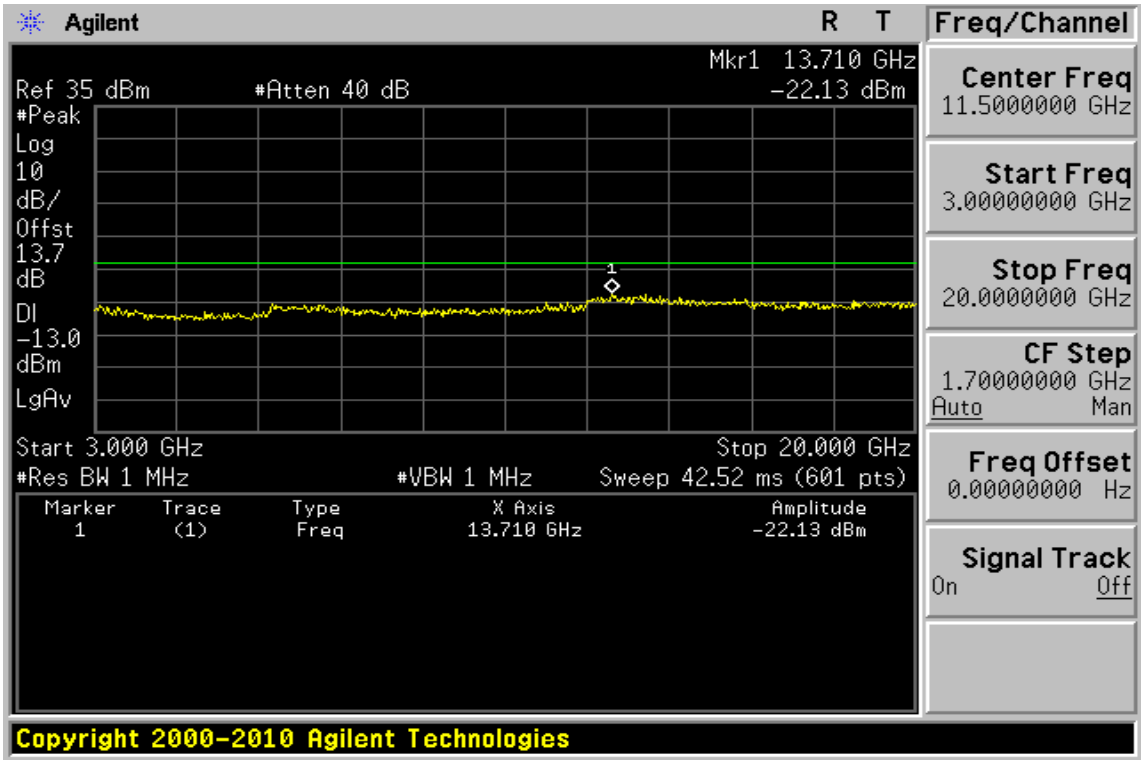


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Figure 10-17: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid

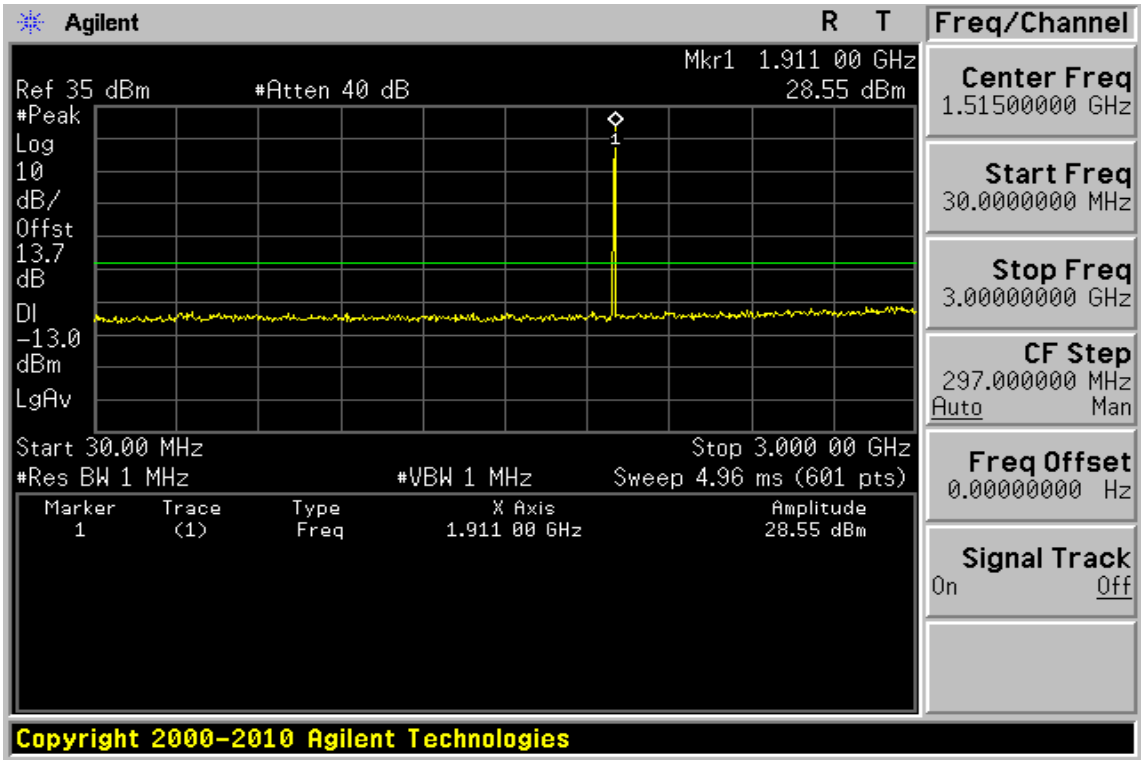


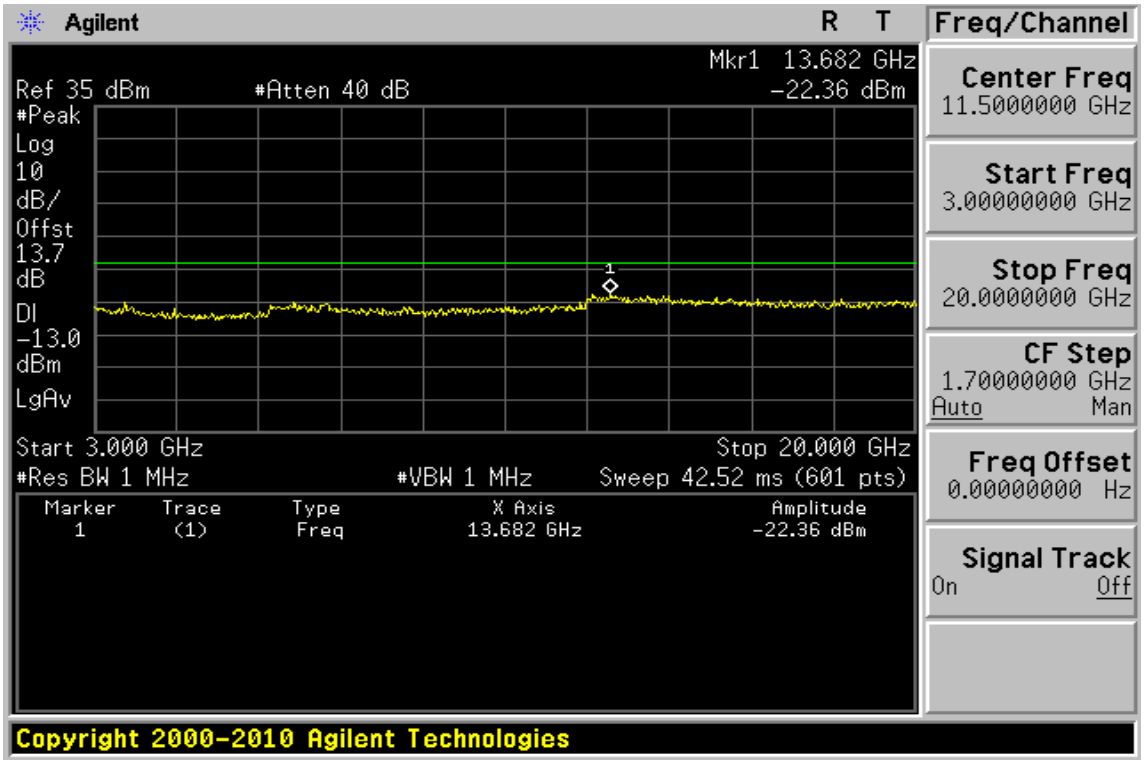


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Figure 10-18: Out of Band emission at antenna terminals – EDGE 1900Channel Highest





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

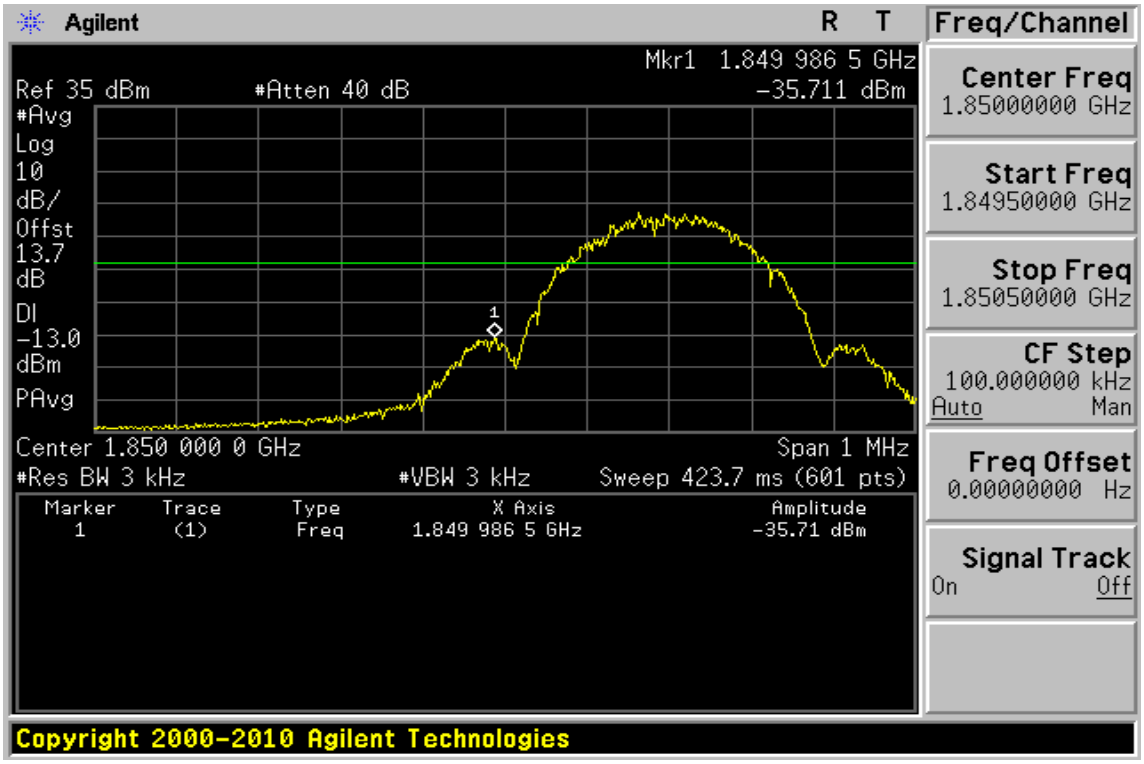
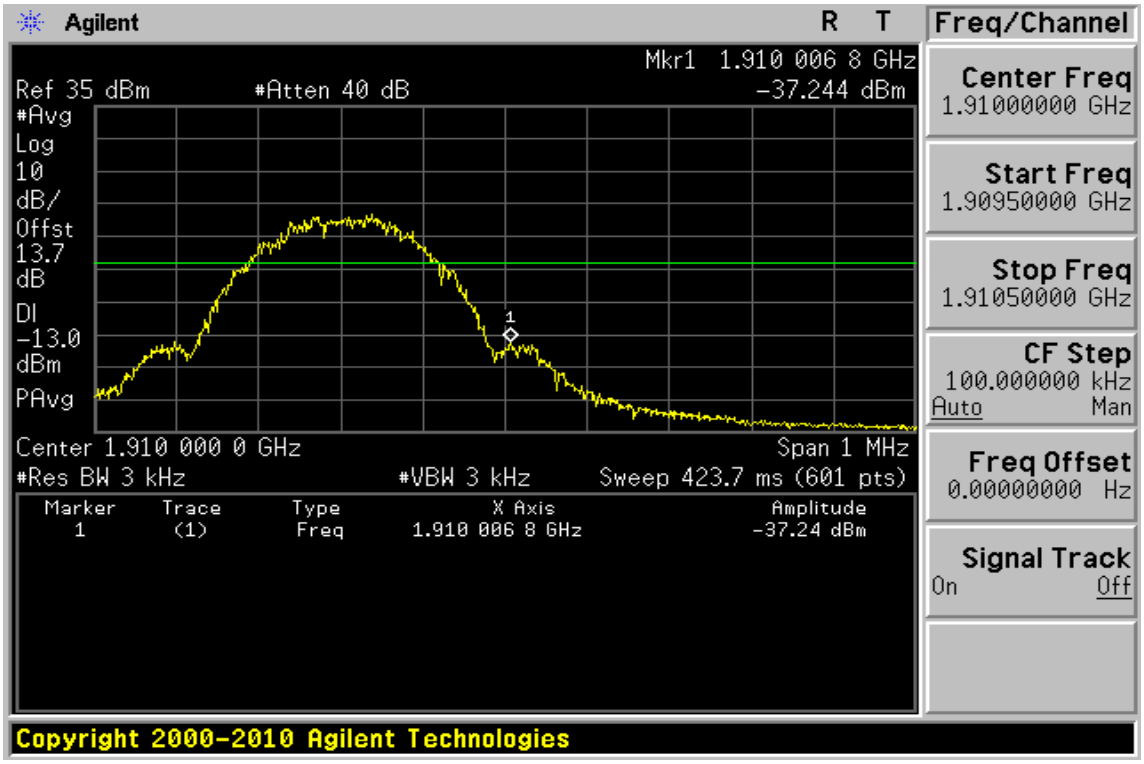


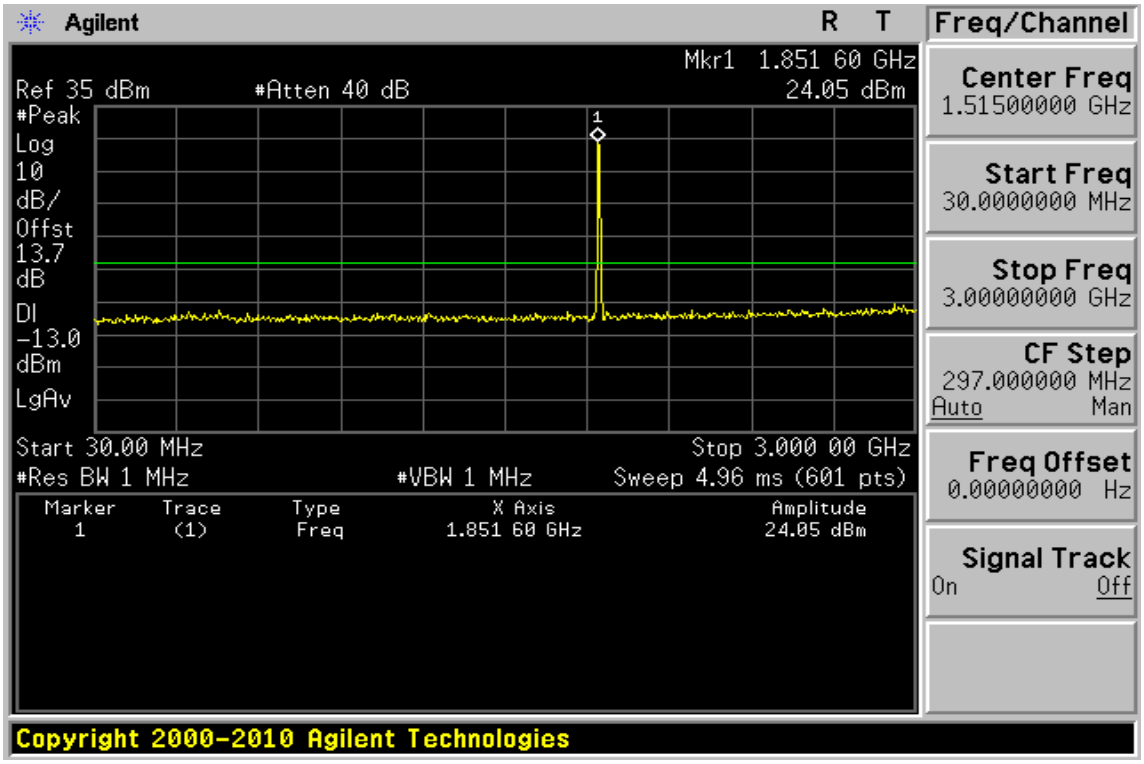
Figure 10-20: Band edge emission at antenna terminals – EDGE 1900Channel Highest

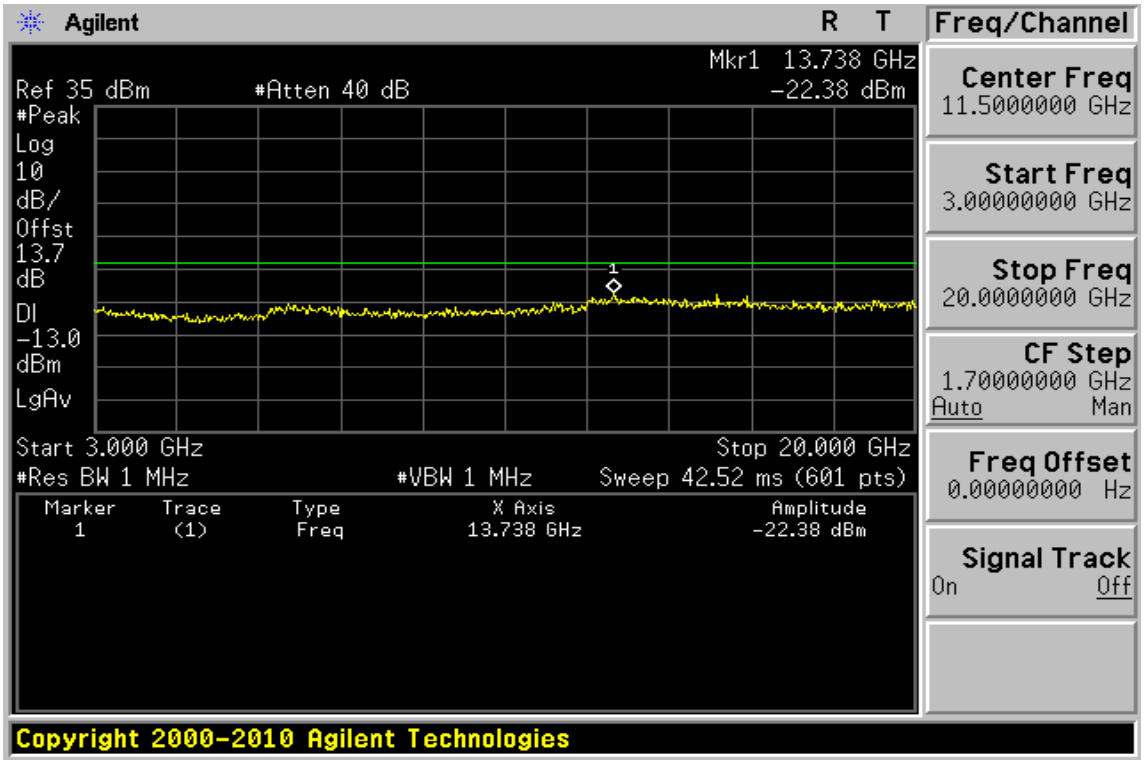


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Figure 10-21: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

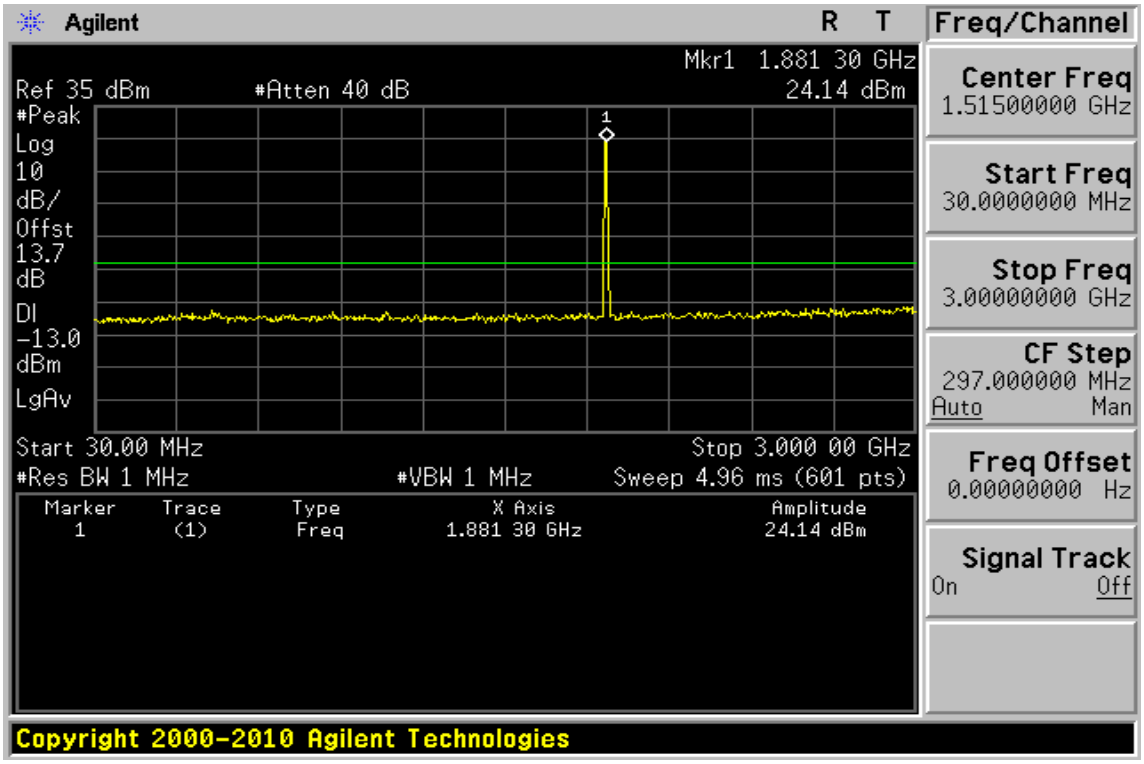


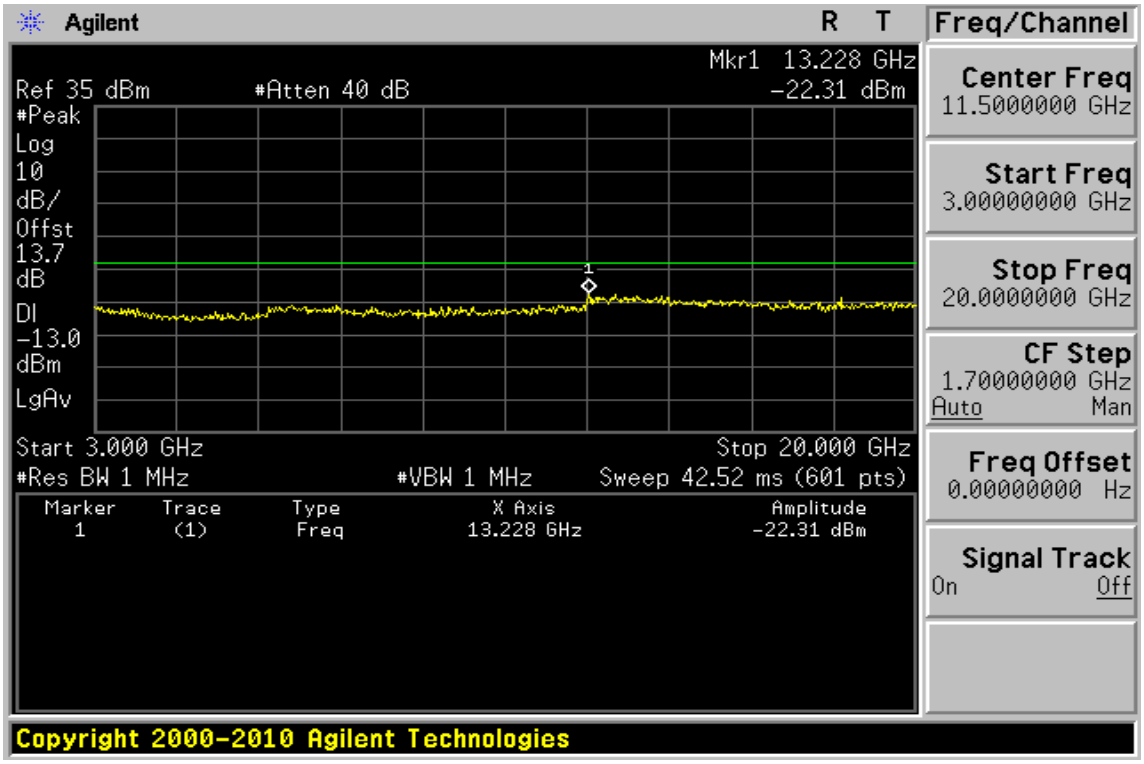


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Figure 10-22: Out of Band emission at antenna terminals – WCDMA II Channel Mid

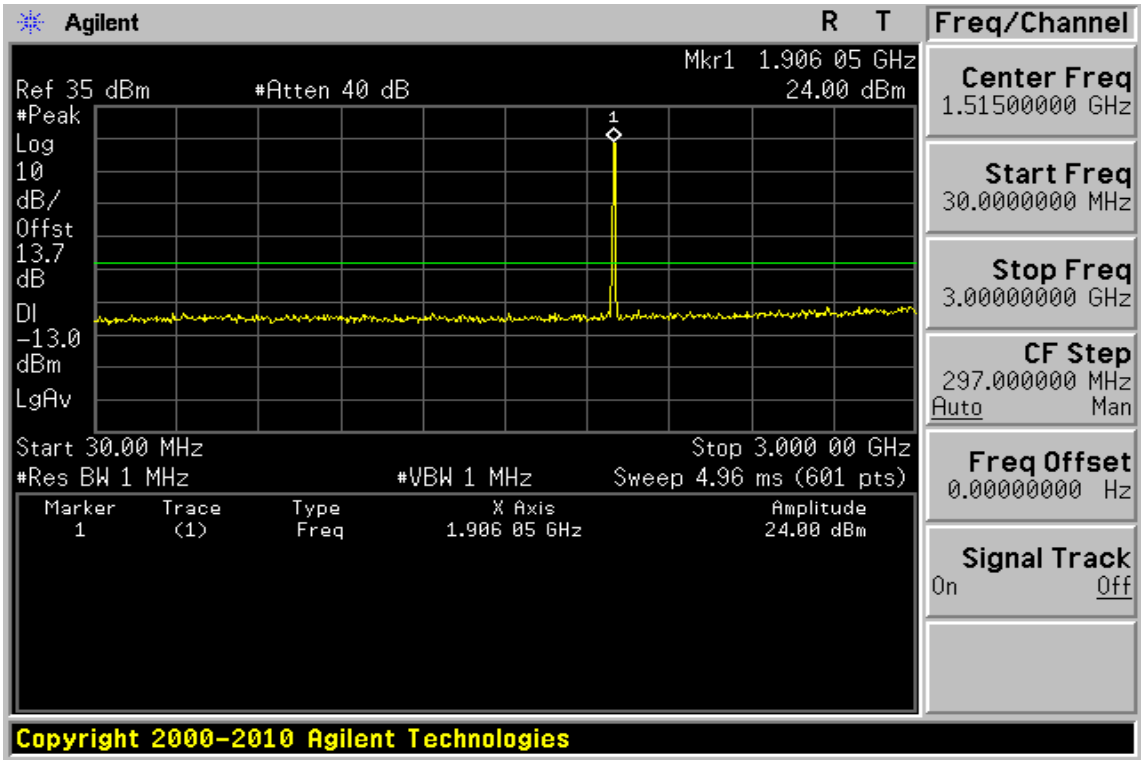


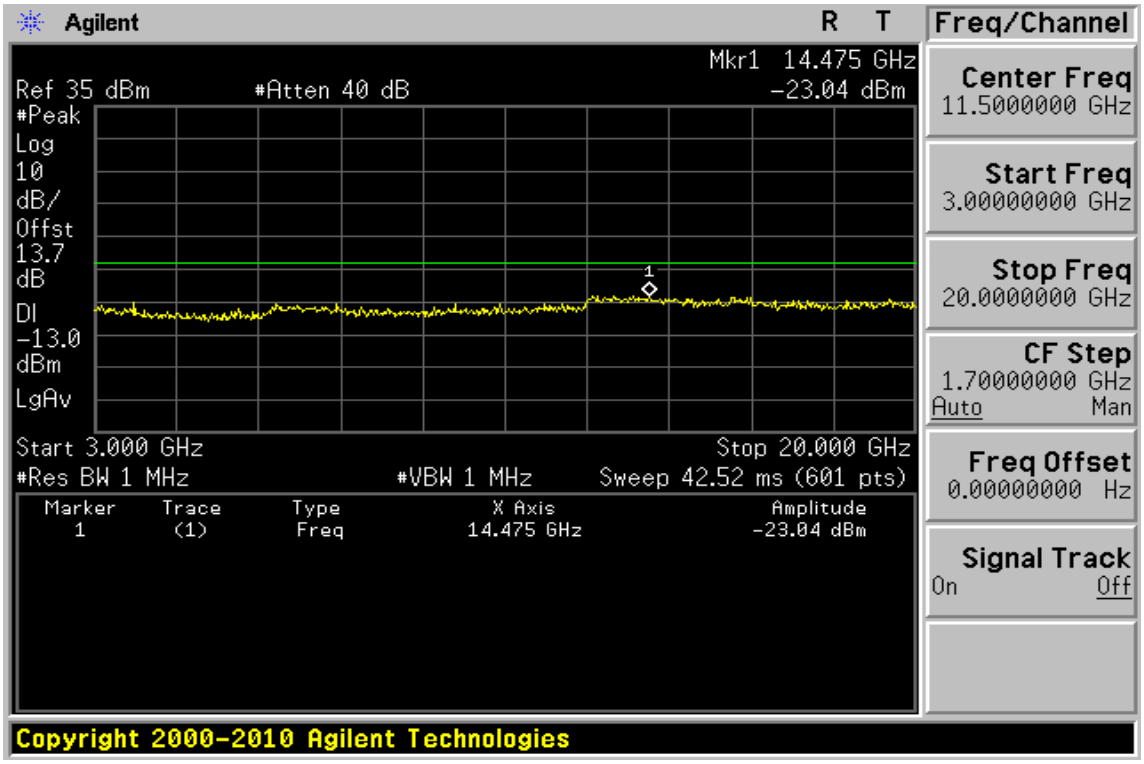


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Figure 10-23: Out of Band emission at antenna terminals – WCDMA II Channel Highest





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

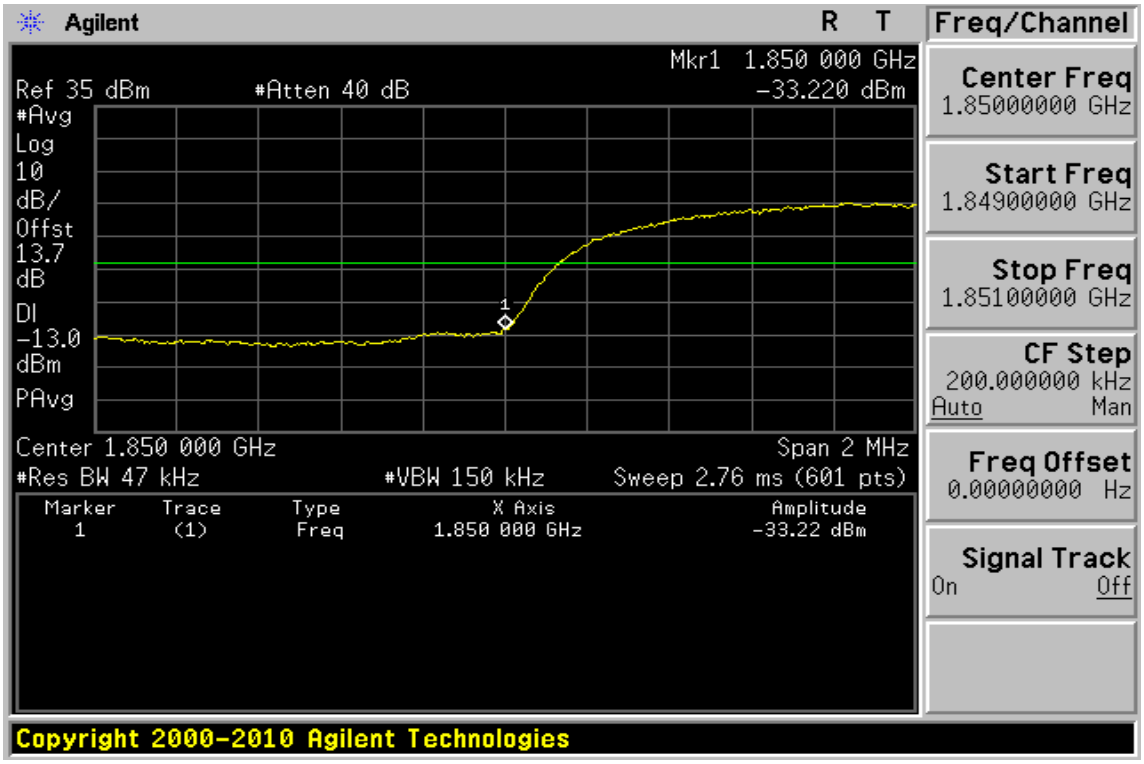
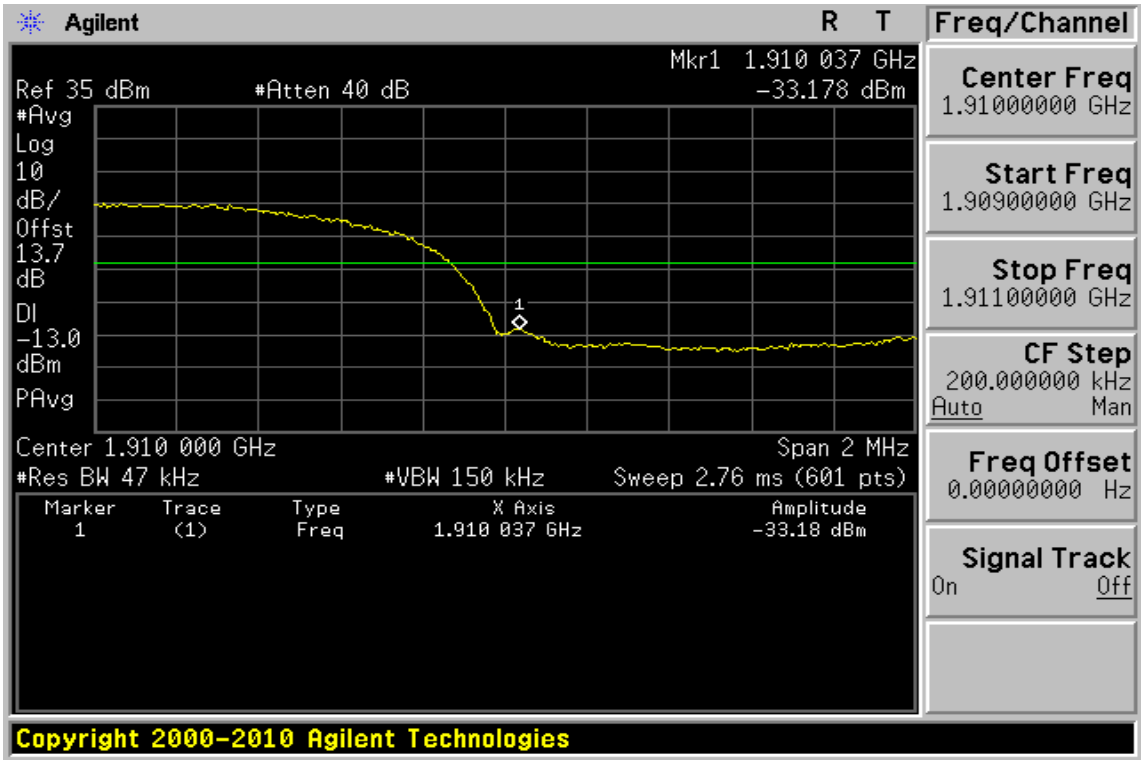


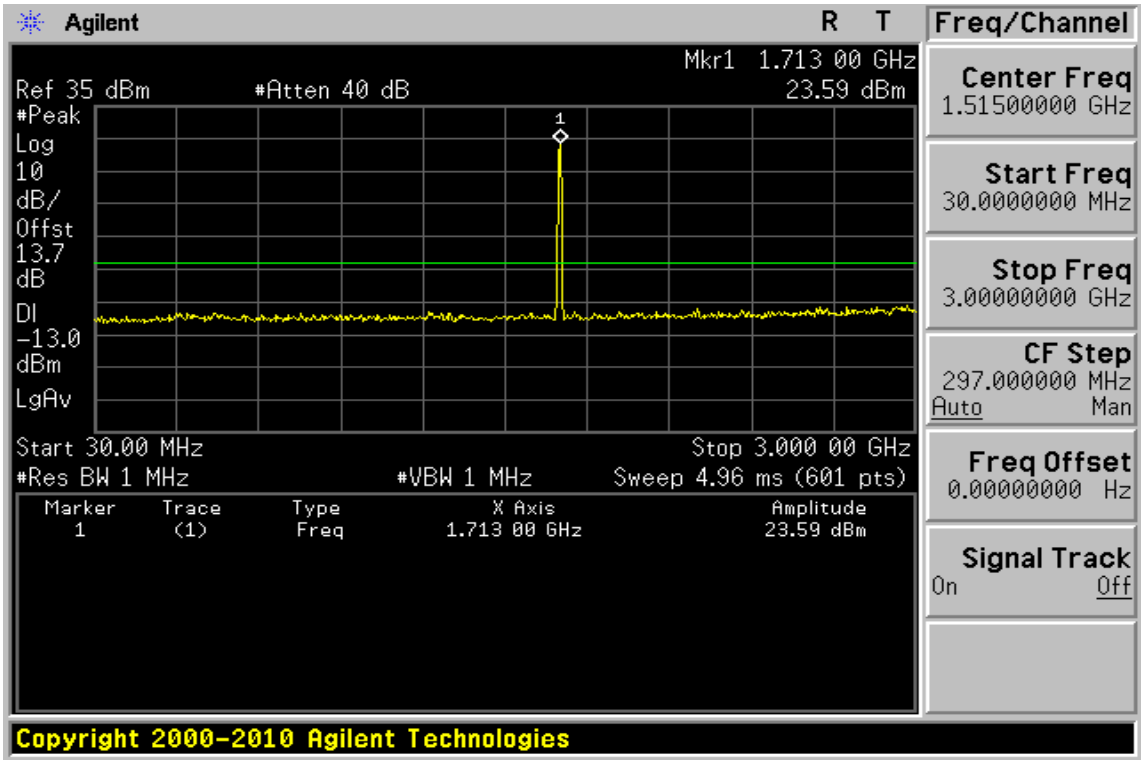
Figure 10-25: Band edge emission at antenna terminals – WCDMA II Channel Highest

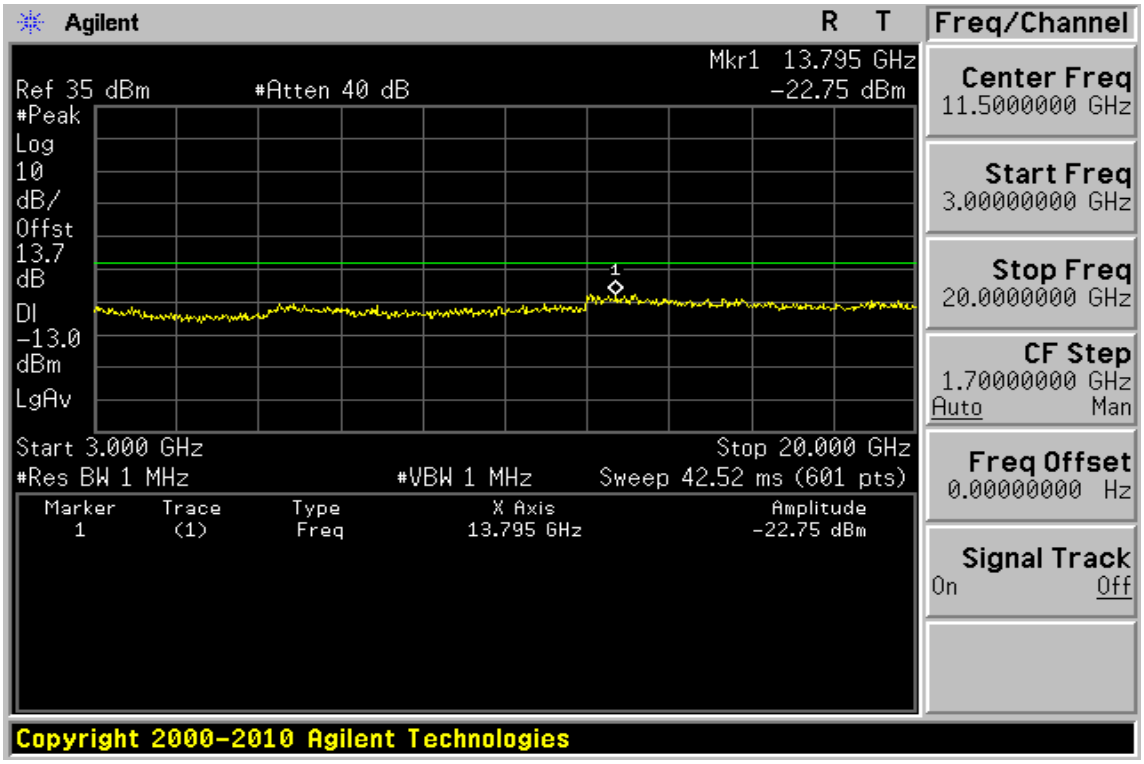


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Figure 10-26: Out of Band emission at antenna terminals – WCDMA IV Channel Lowest

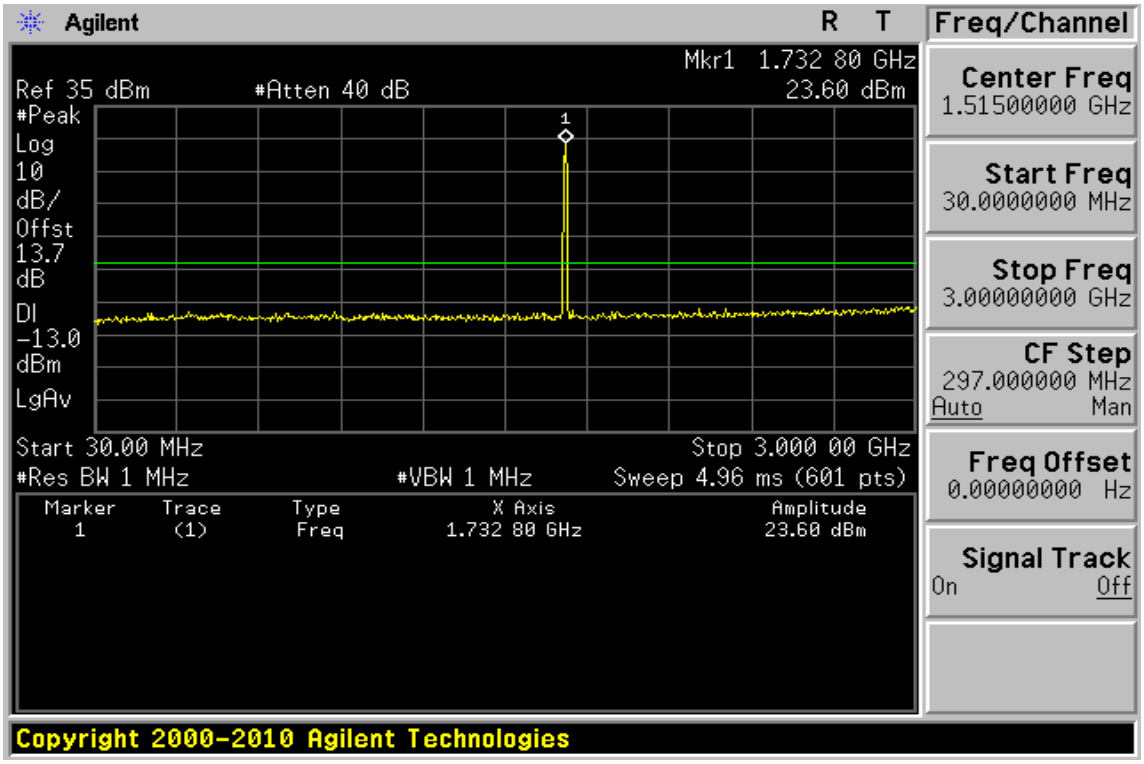


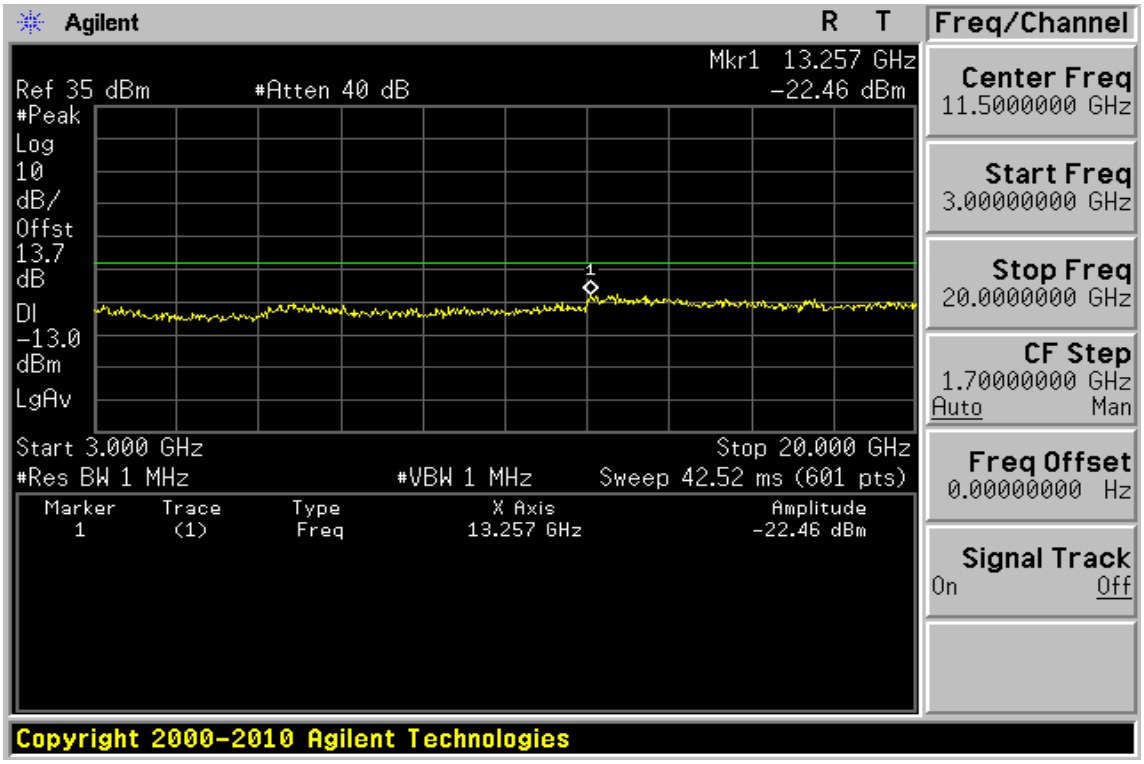


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Figure 10-27: Out of Band emission at antenna terminals – WCDMA IV Channel Mid

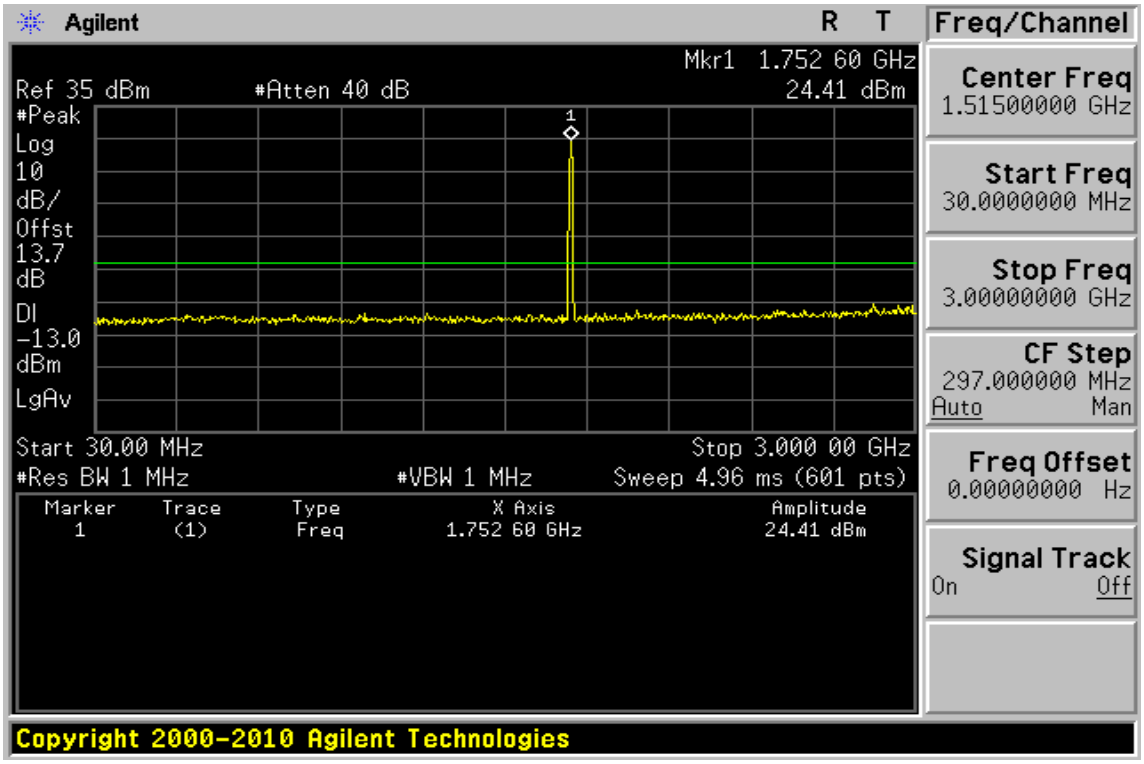


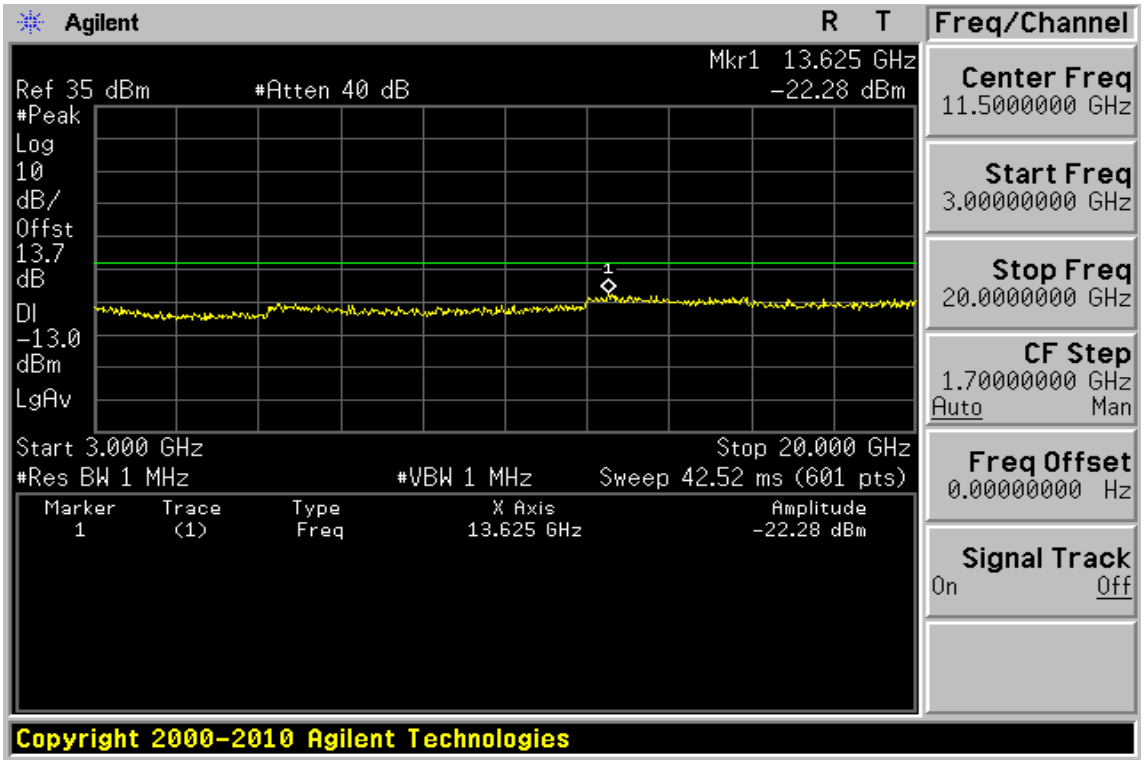


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Figure 10-28: Out of Band emission at antenna terminals – WCDMA IV Channel Highest





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Figure 10-29: Bad edge emission at antenna terminals – WCDMA IV Channel Lowest

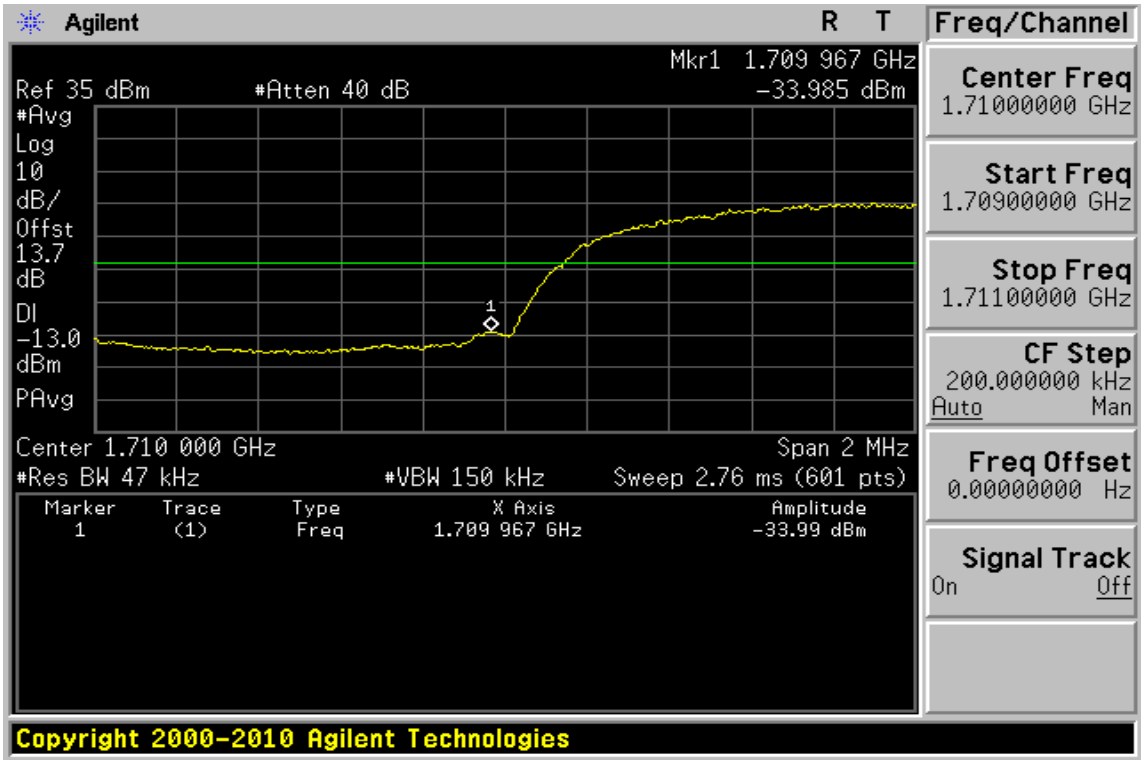
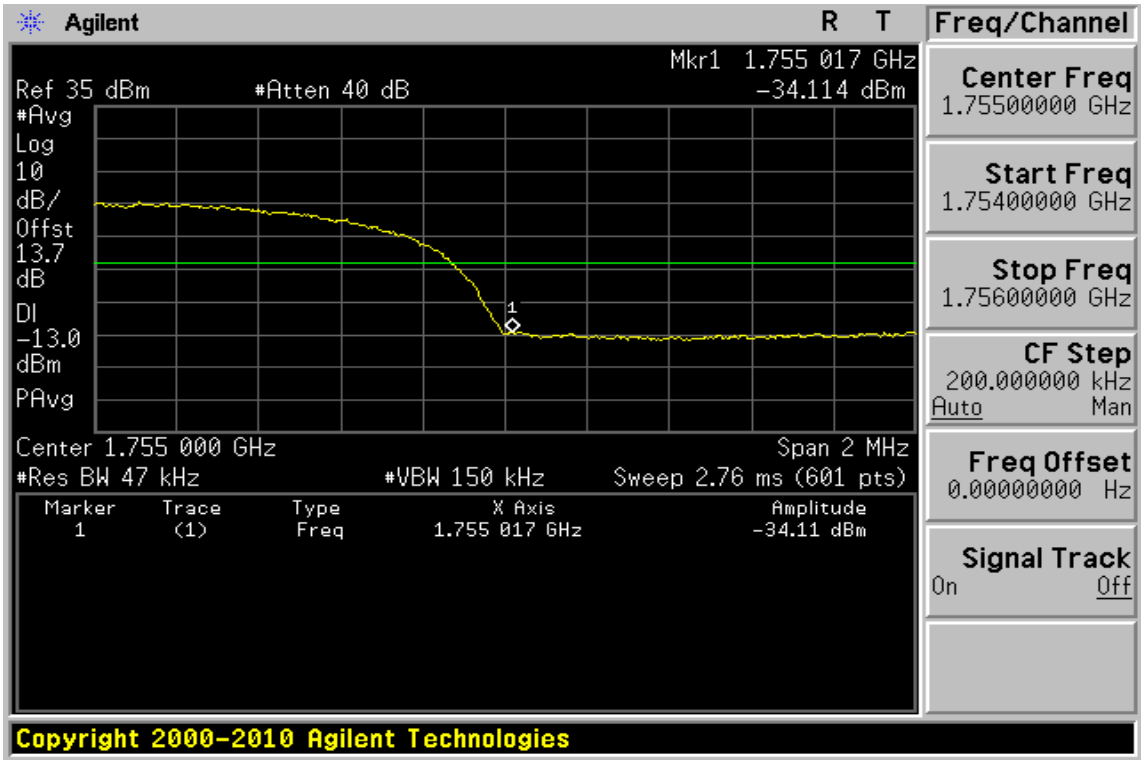


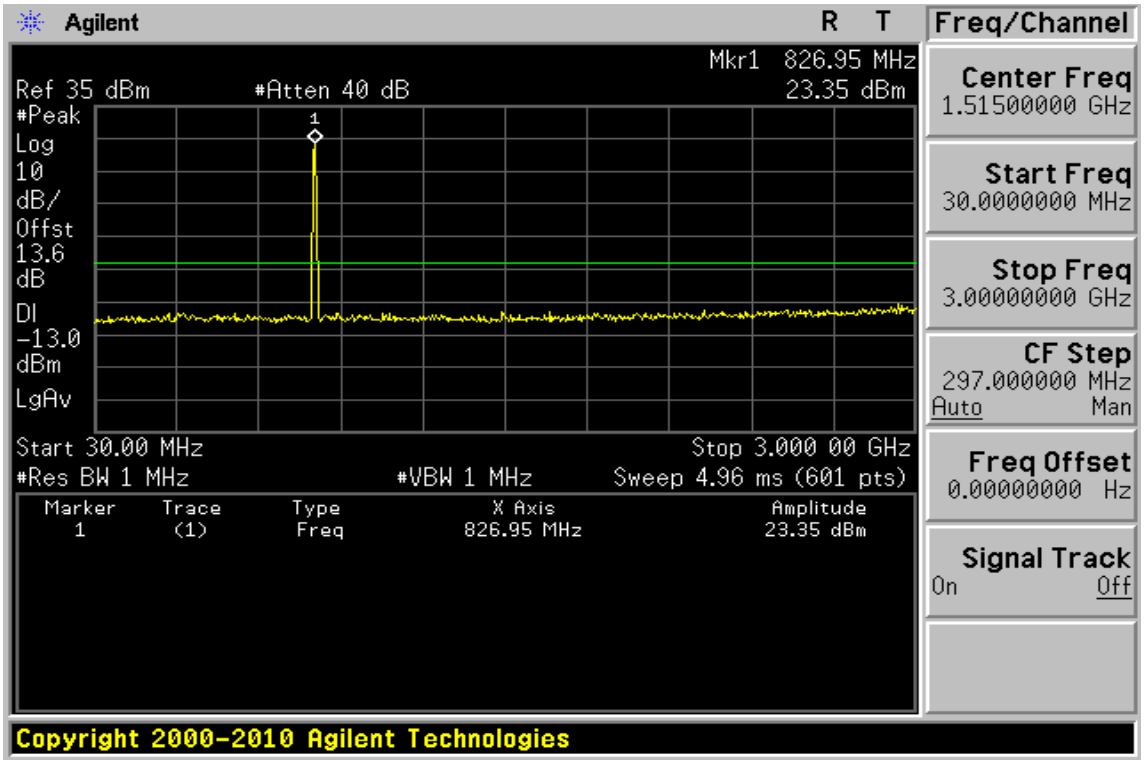
Figure 10-30: Band edge emission at antenna terminals – WCDMA IV Channel Highest

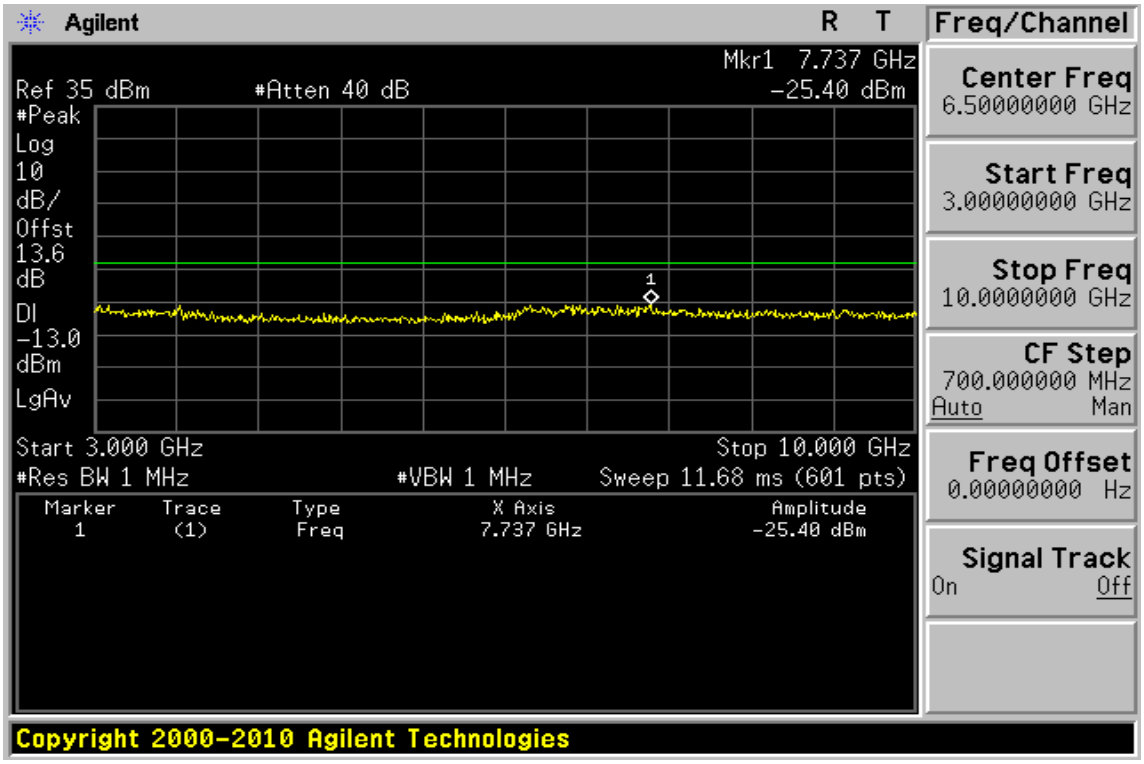


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Figure 10-31: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

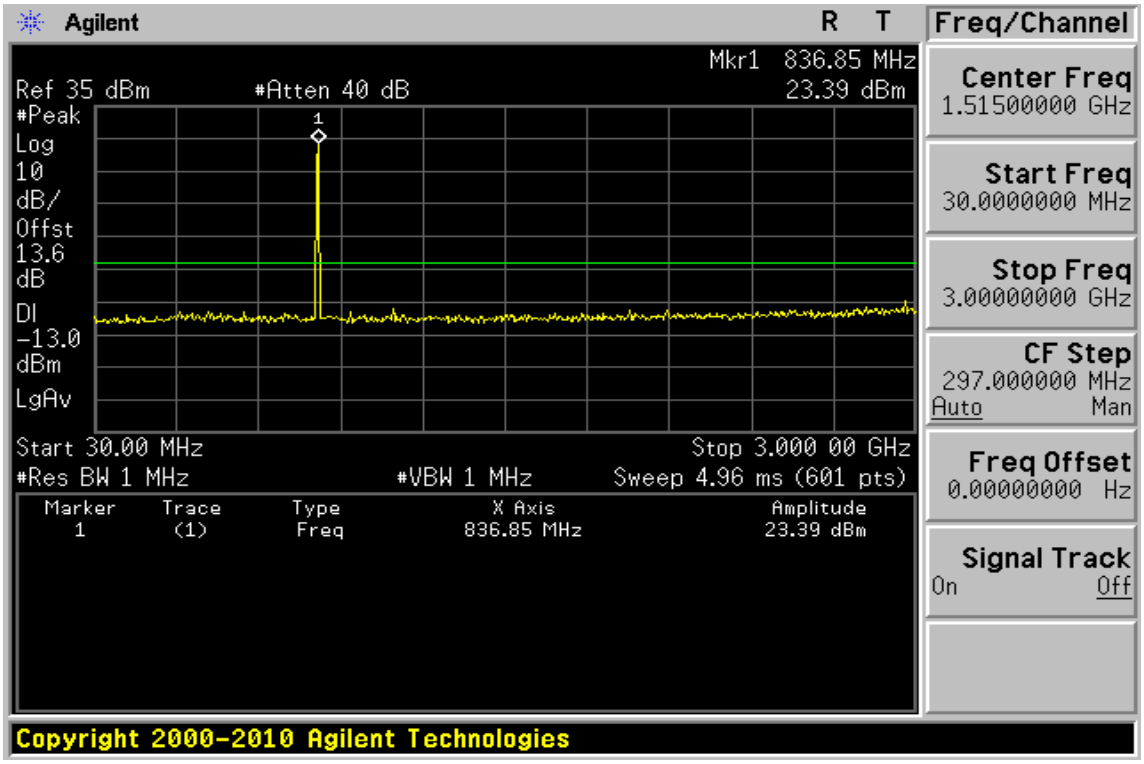


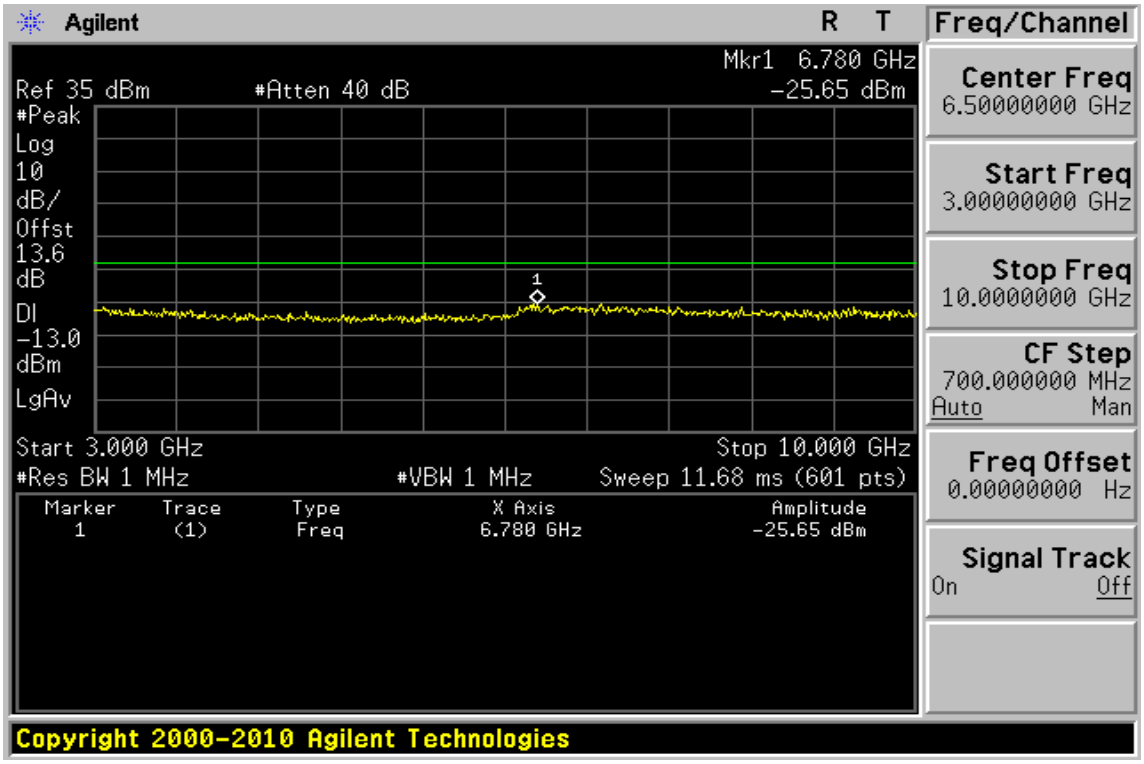


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Figure 10-32: Out of Band emission at antenna terminals – WCDMA V Channel Mid

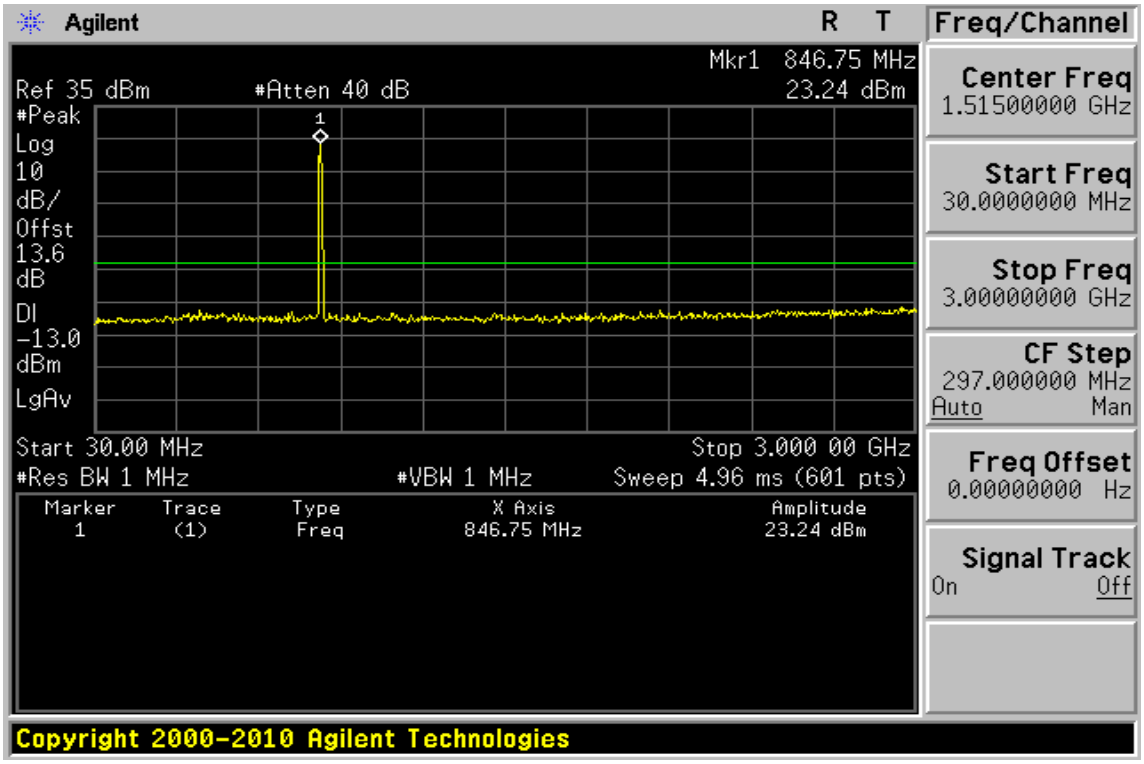


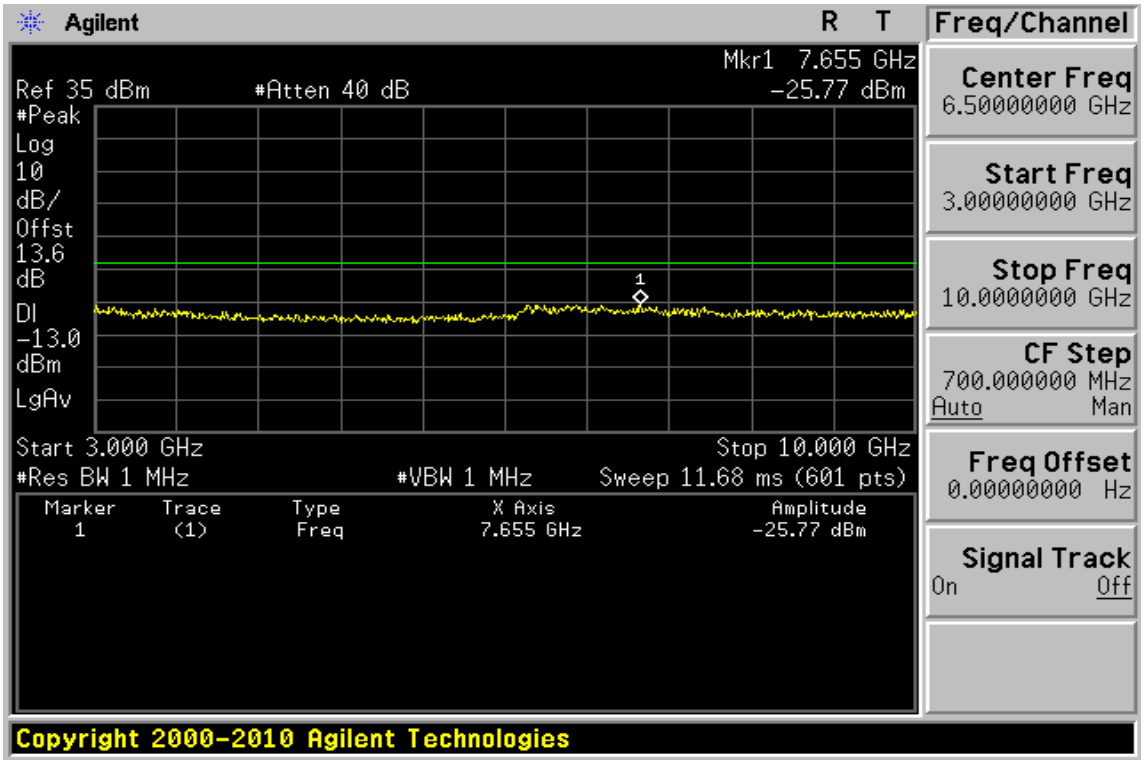


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Figure 10-33: Out of Band emission at antenna terminals – WCDMA V Channel Highest





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Figure 10-34: Bad edge emission at antenna terminals – WCDMA V Channel Lowest

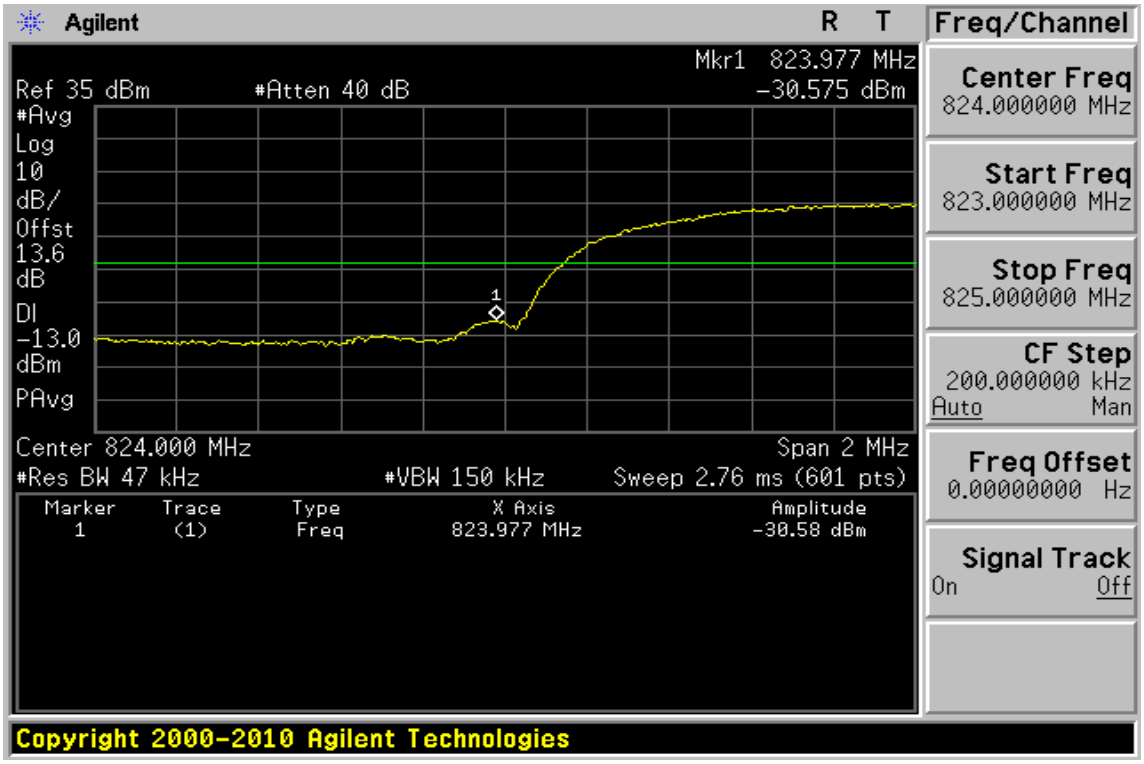
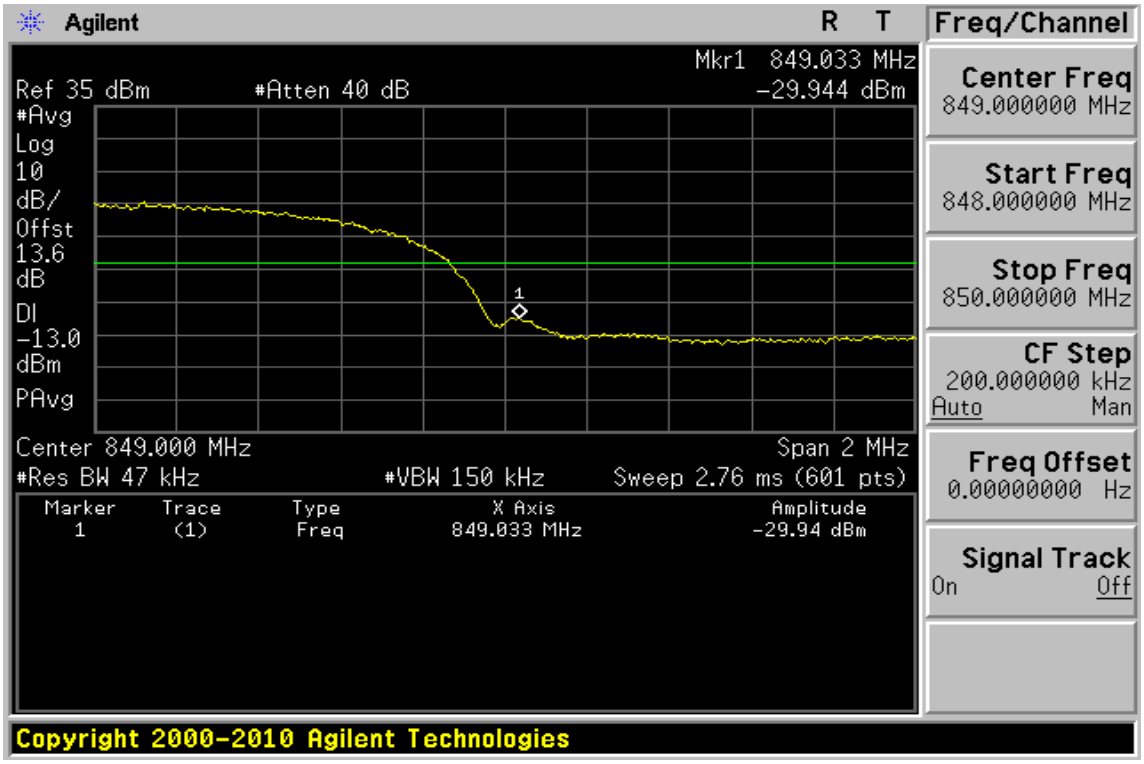


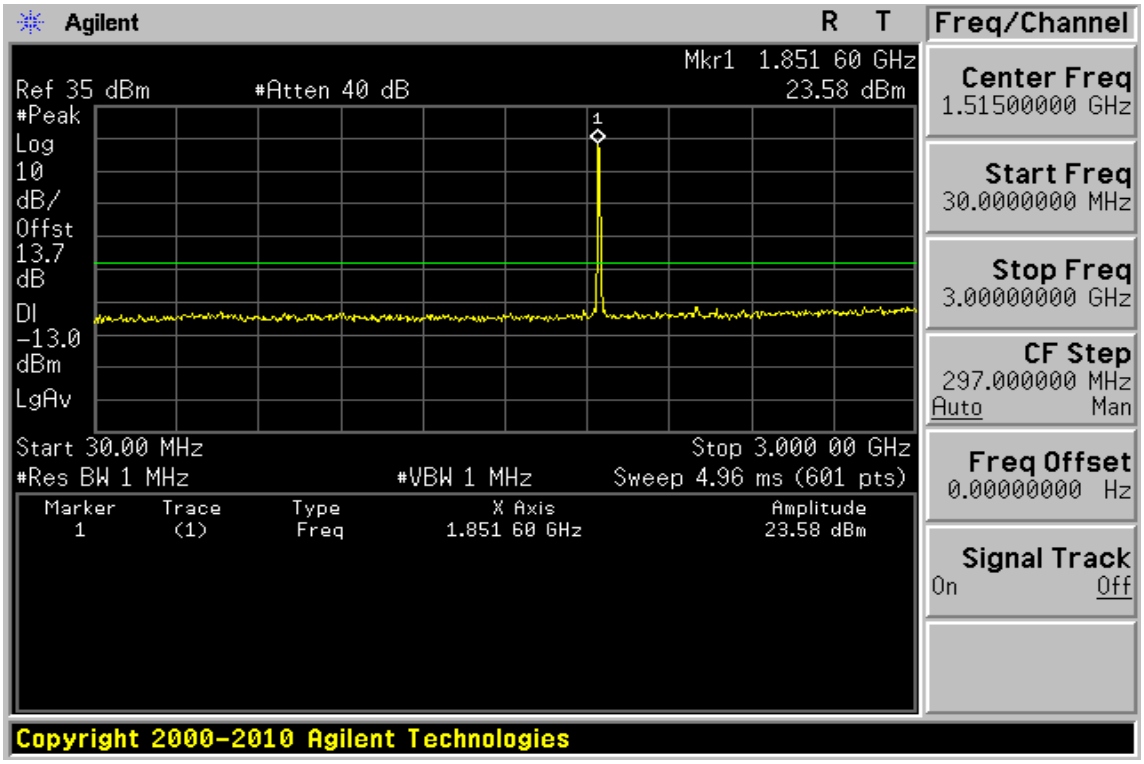
Figure 10-35: Band edge emission at antenna terminals – WCDMA V Channel Highest

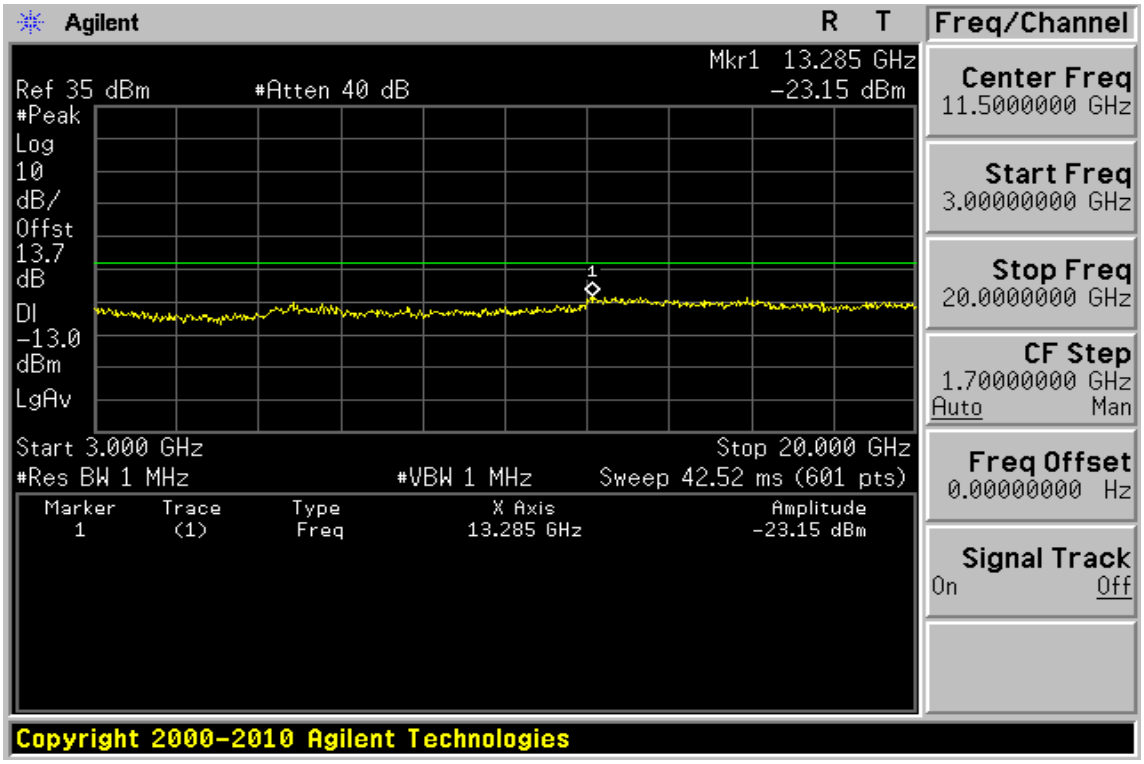


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Figure 10-36: Out of Band emission at antenna terminals – HSUPA II Channel Lowest

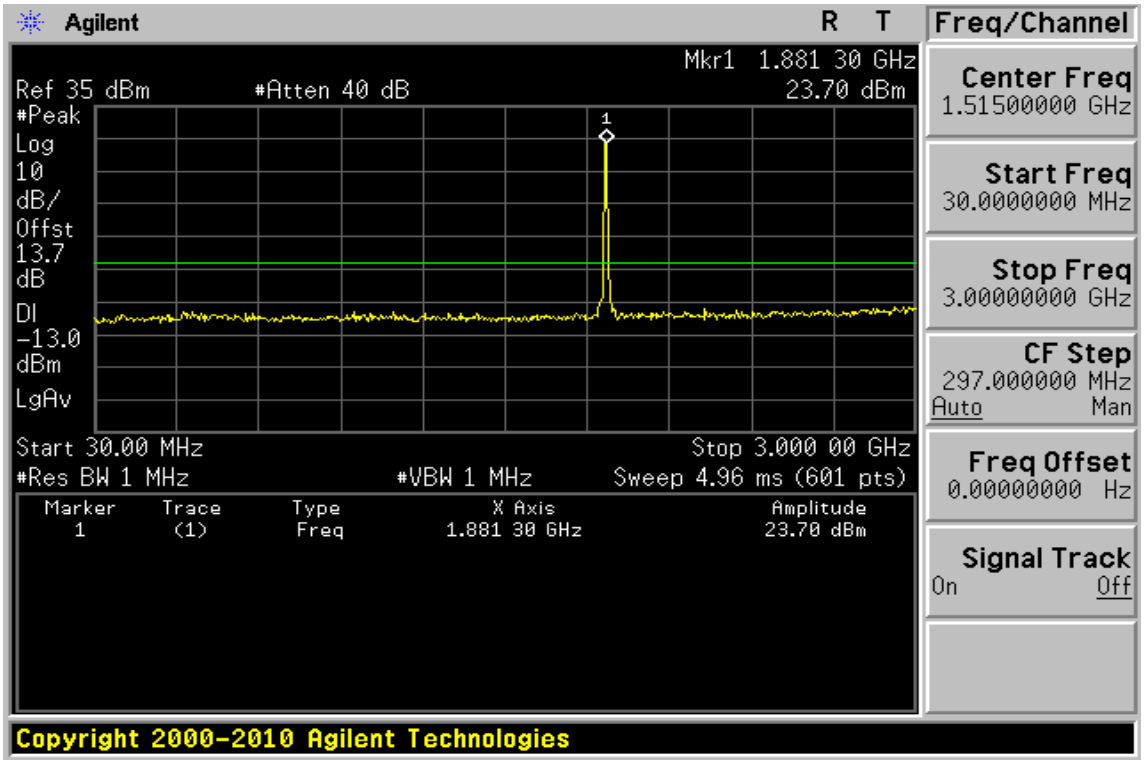


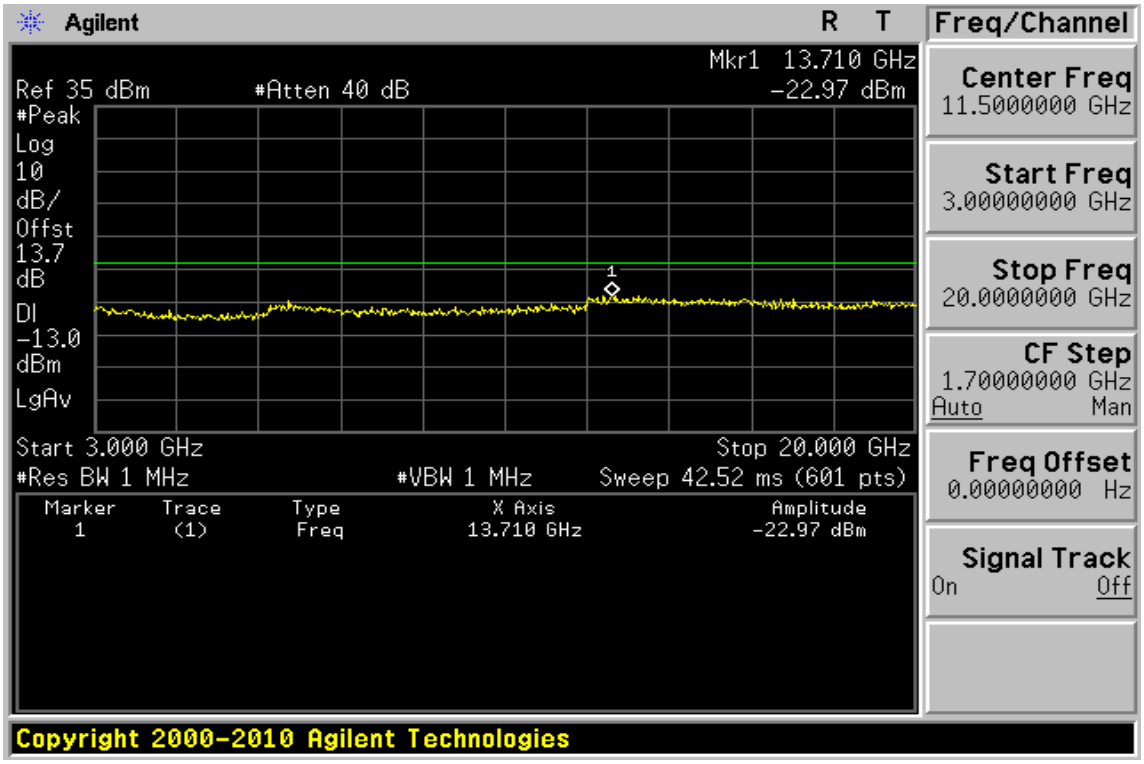


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Figure 10-37: Out of Band emission at antenna terminals – HSUPA II Channel Mid

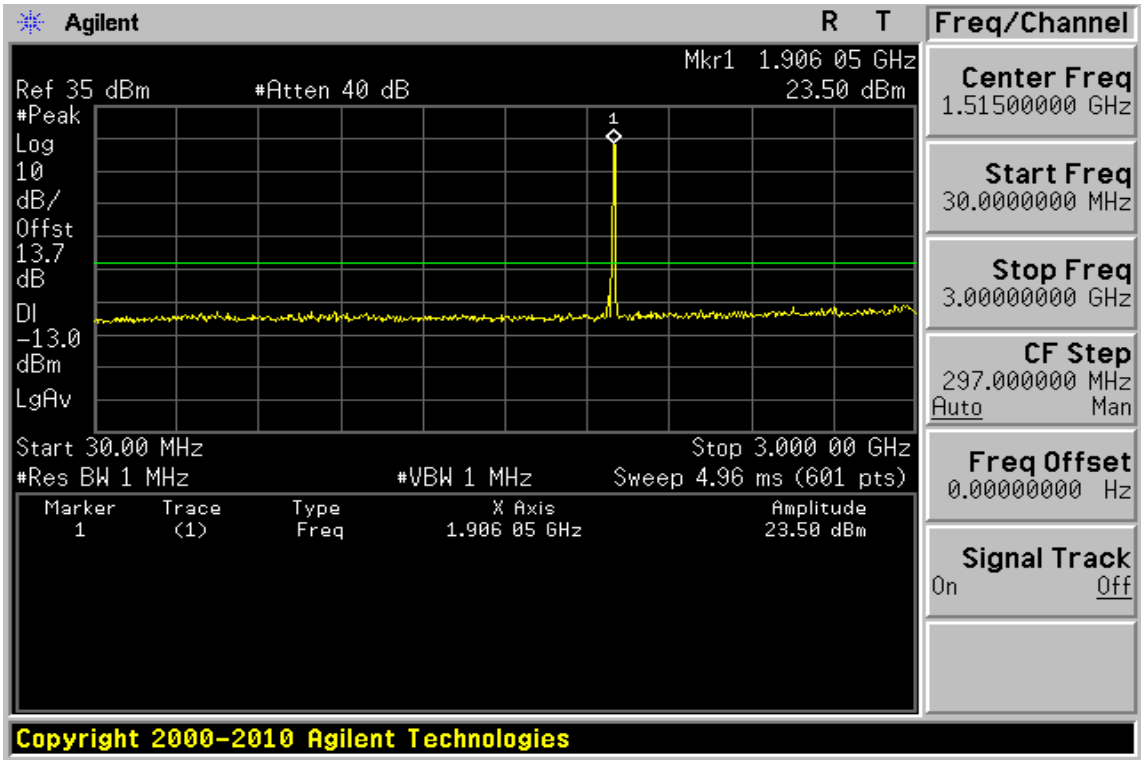


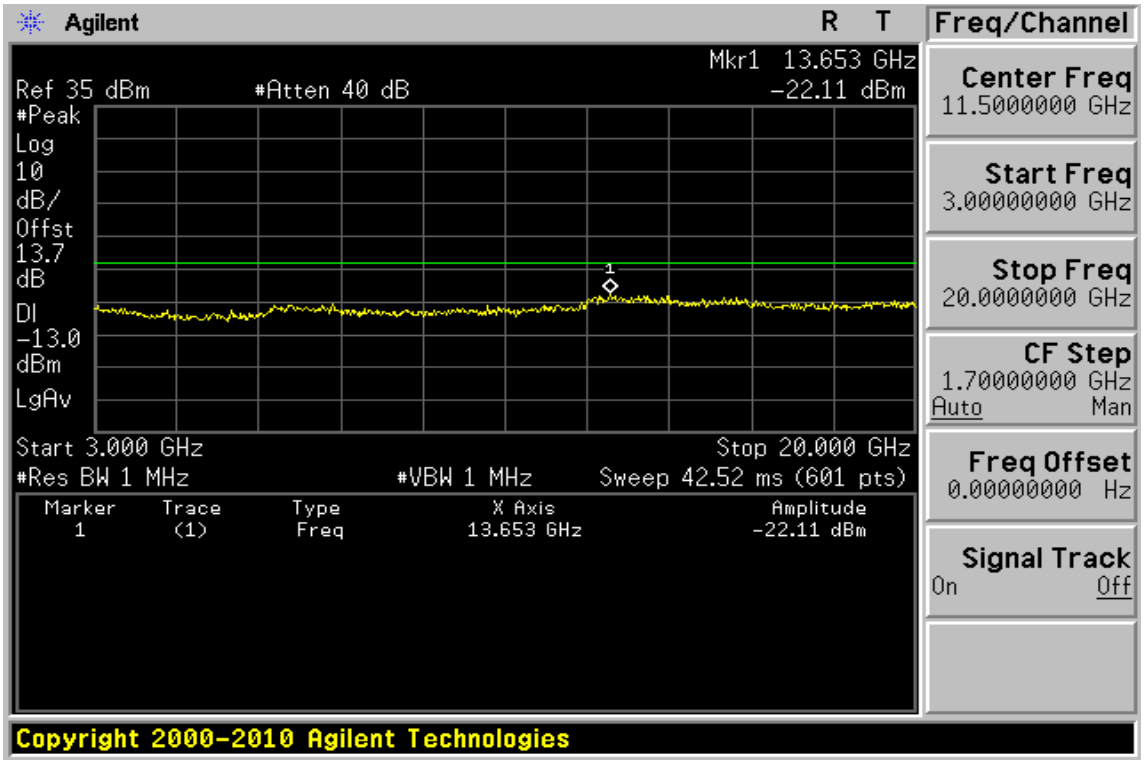


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Figure 10-38: Out of Band emission at antenna terminals – HSUPA II Channel Highest





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Figure 10-39: Bad edge emission at antenna terminals – HSUPA II Channel Lowest

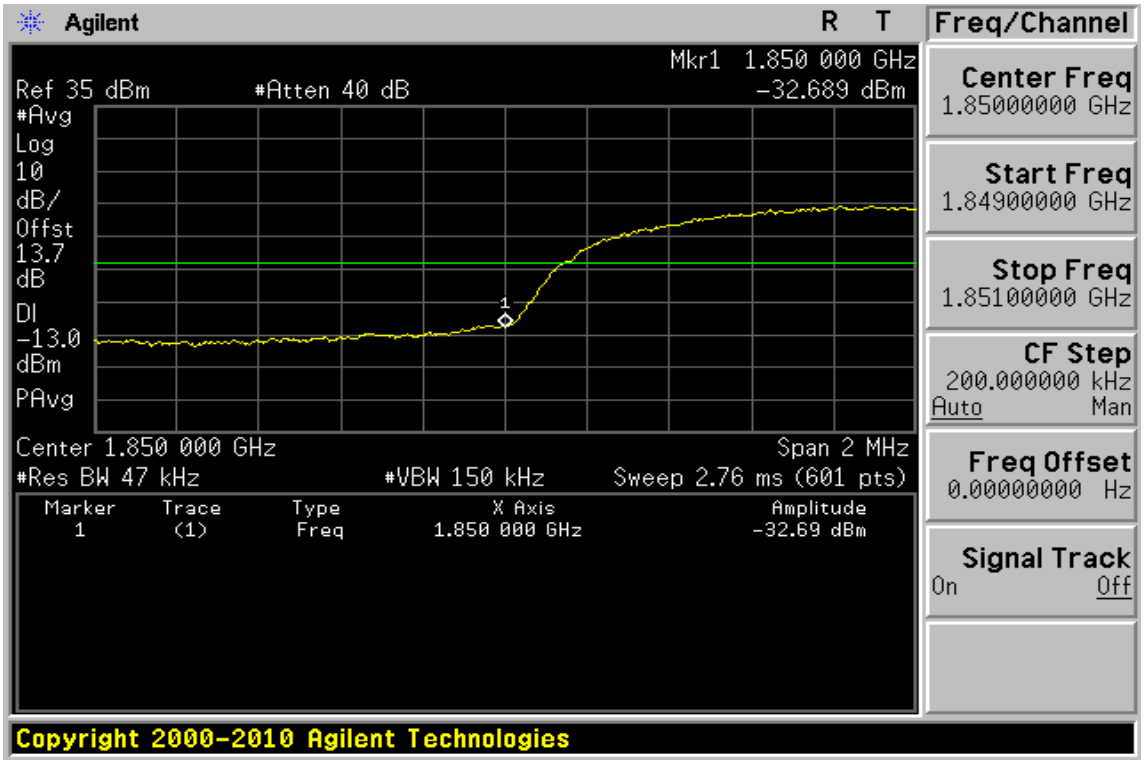
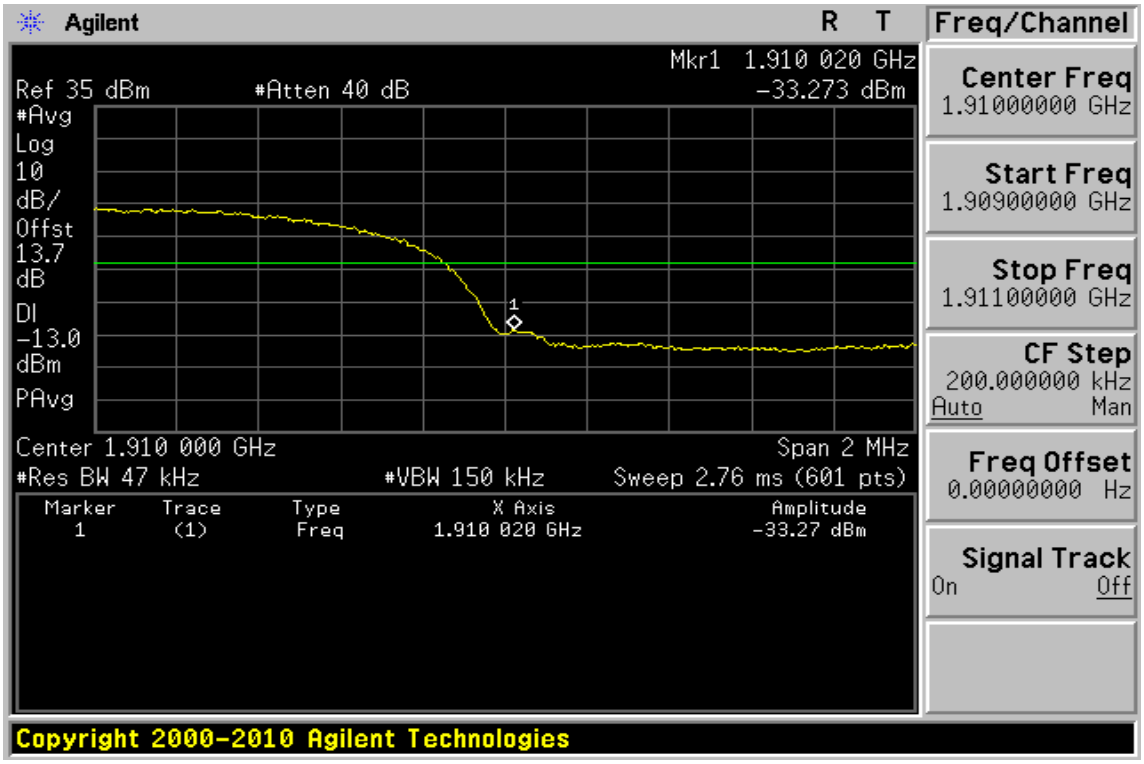


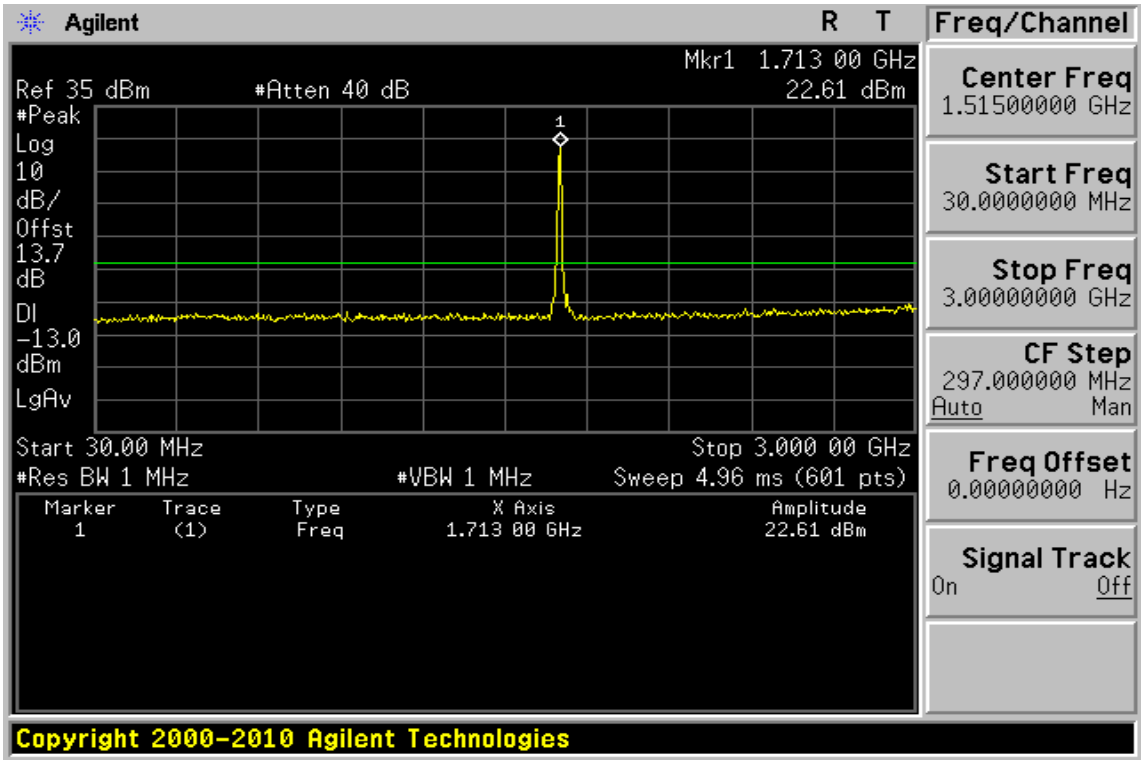
Figure 10-40: Band edge emission at antenna terminals – HSUPA II Channel Highest

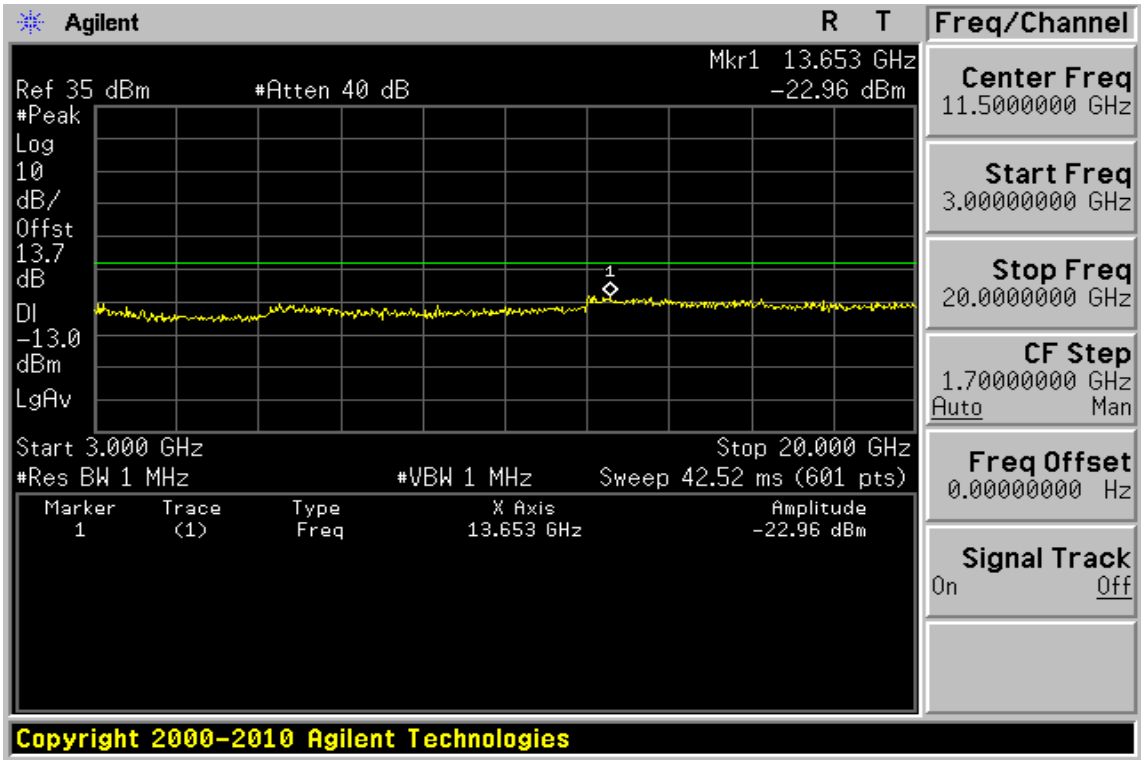


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Figure 10-41: Out of Band emission at antenna terminals – HSUPA IV Channel Lowest

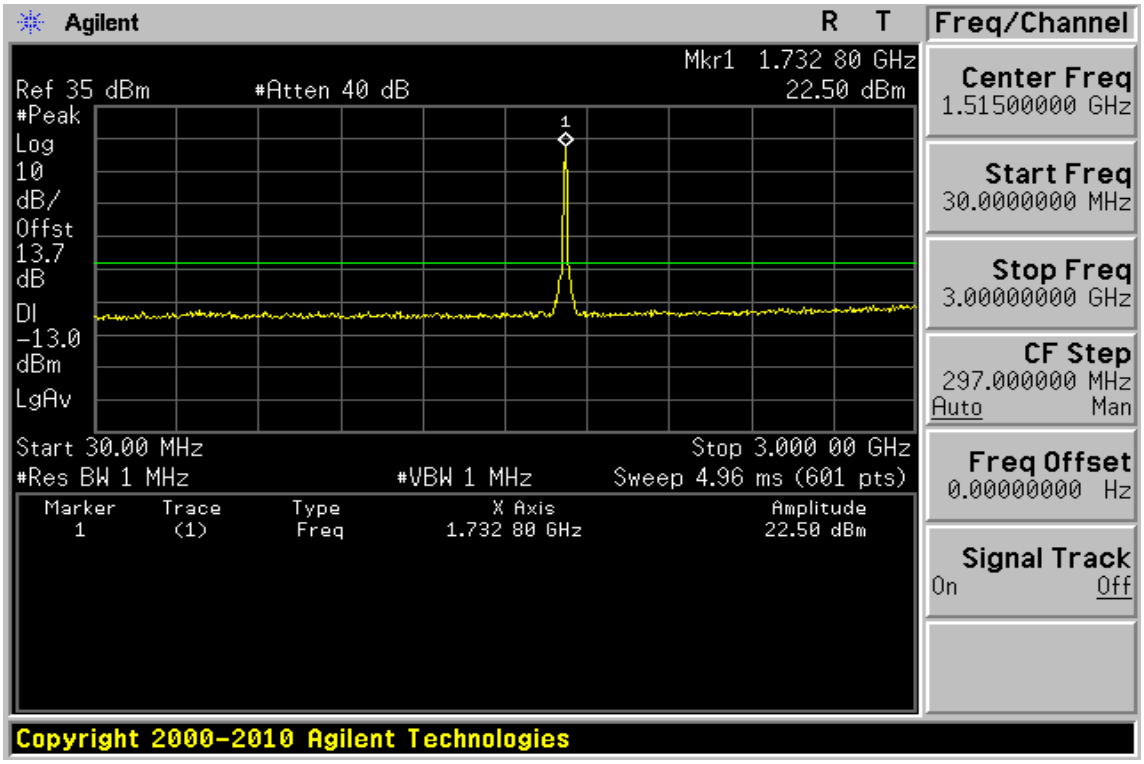


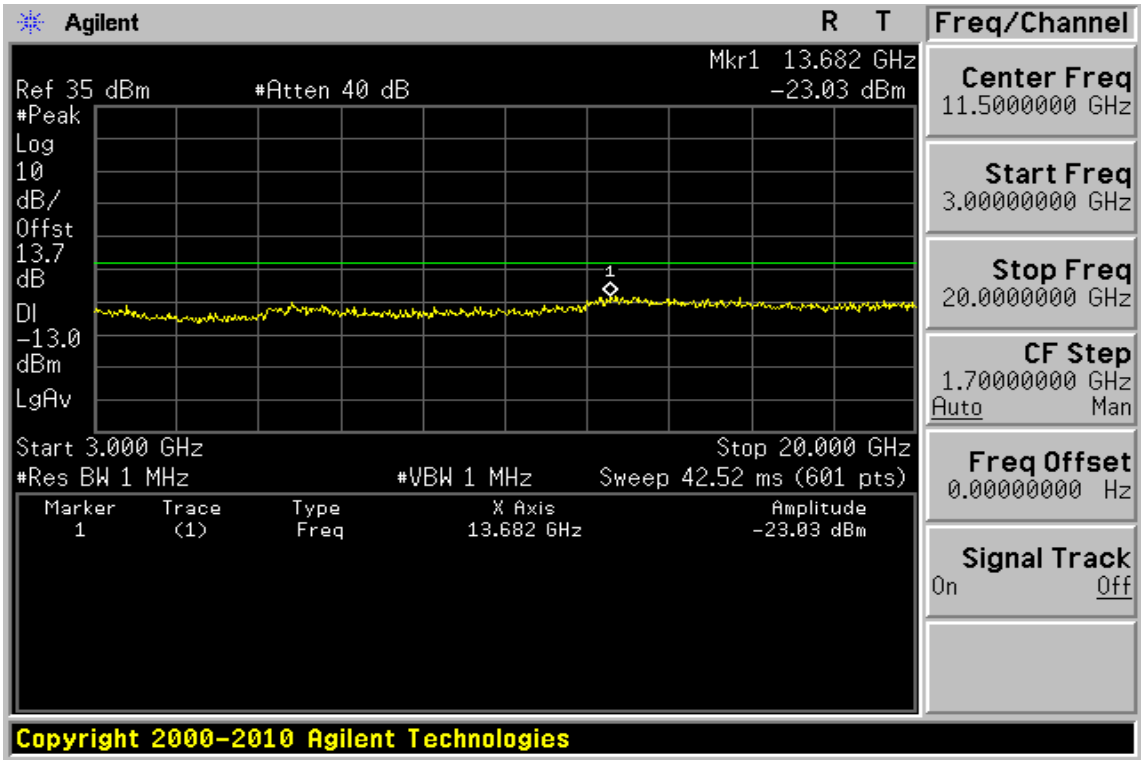


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Figure 10-42: Out of Band emission at antenna terminals – HSUPA IV Channel Mid

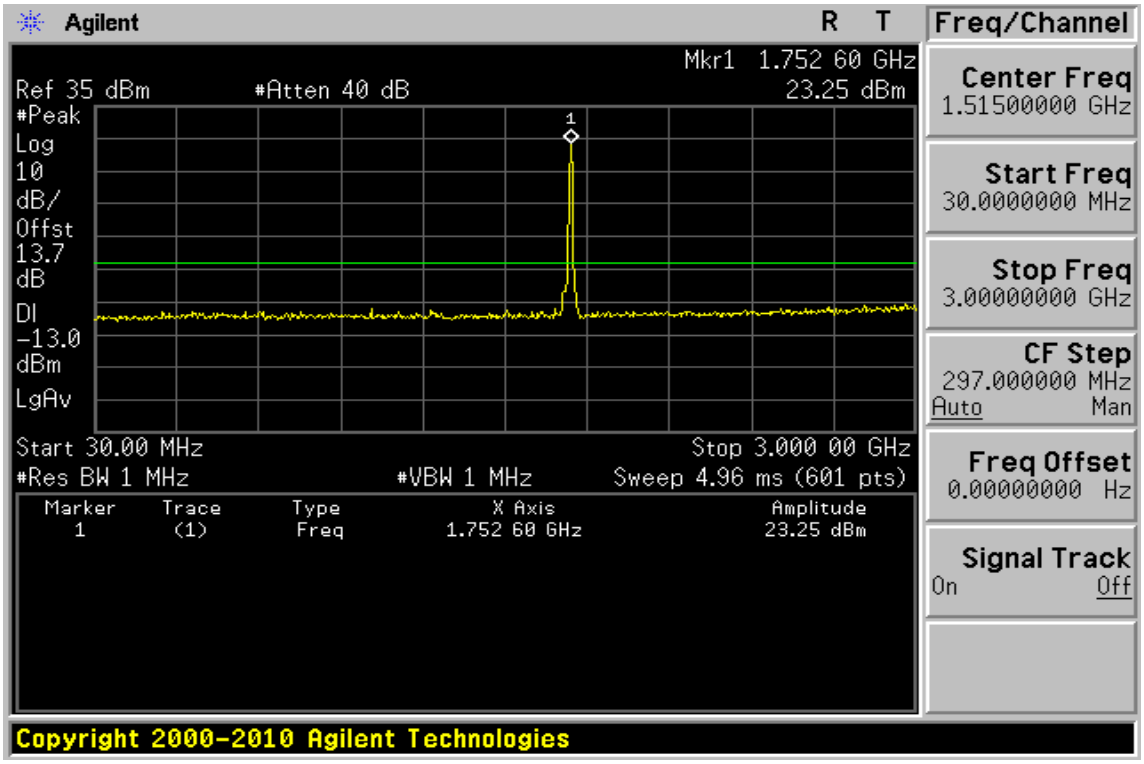


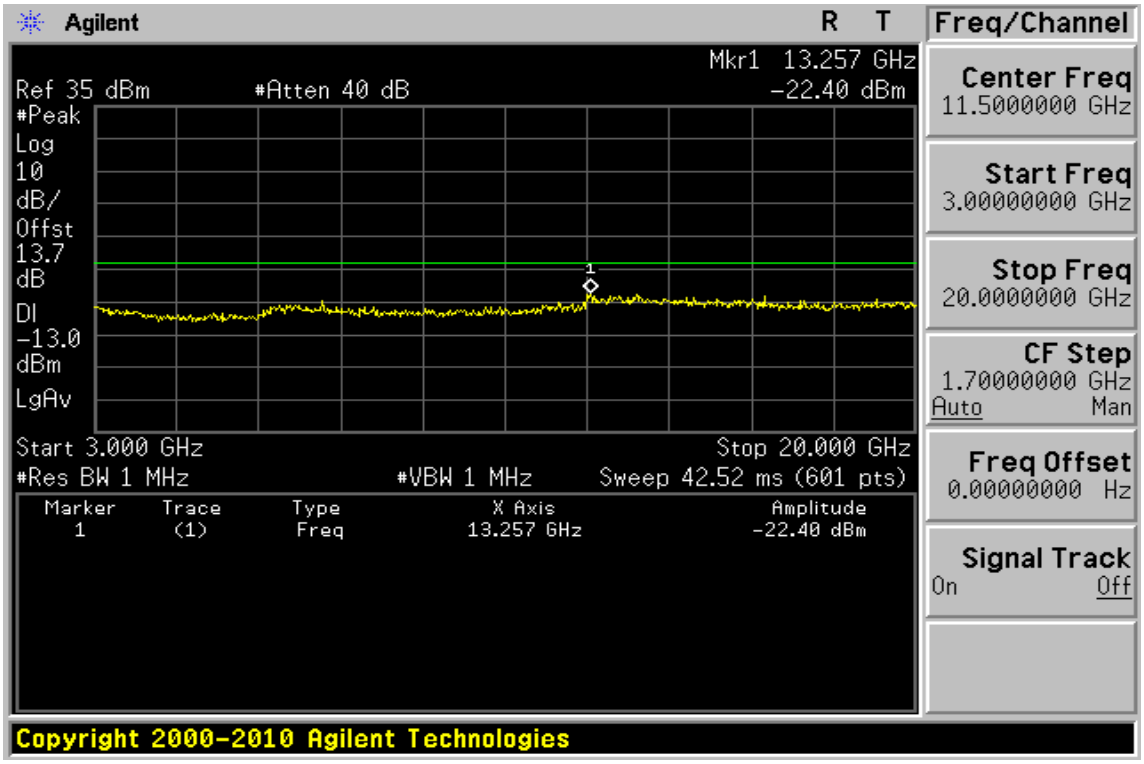


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Figure 10-43: Out of Band emission at antenna terminals – HSUPA IV Channel Highest





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Figure 10-44: Bad edge emission at antenna terminals – HSUPA IV Channel Lowest

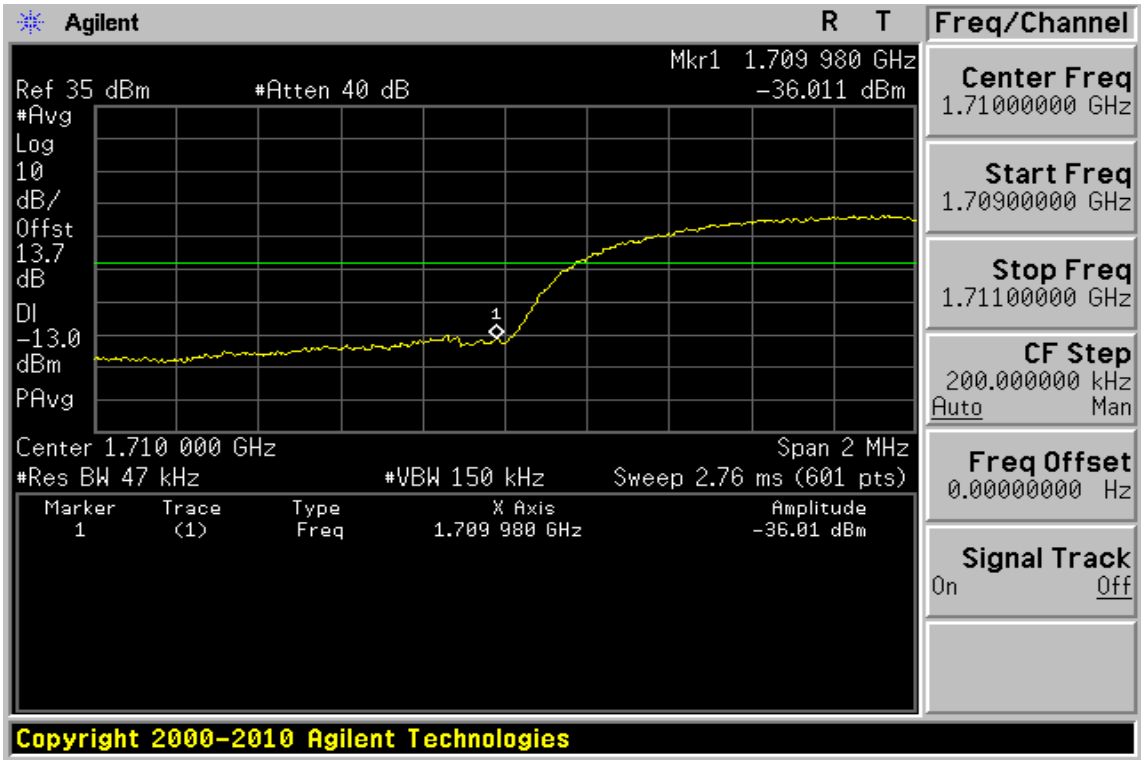
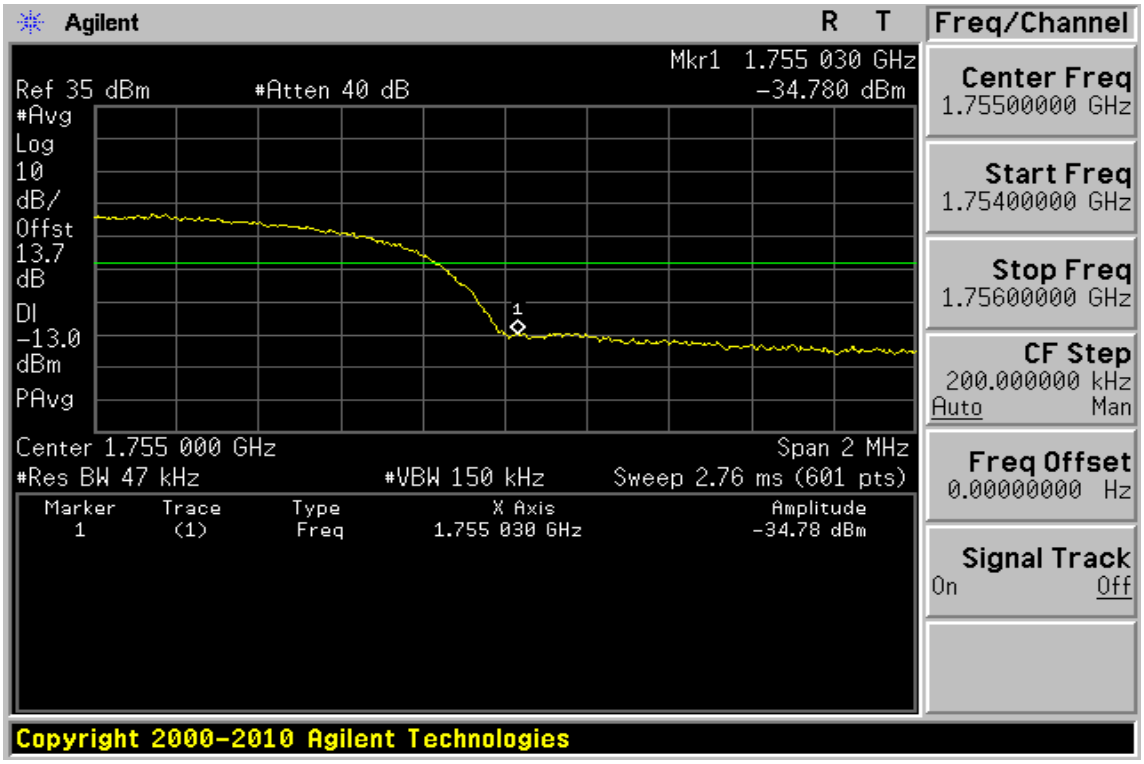


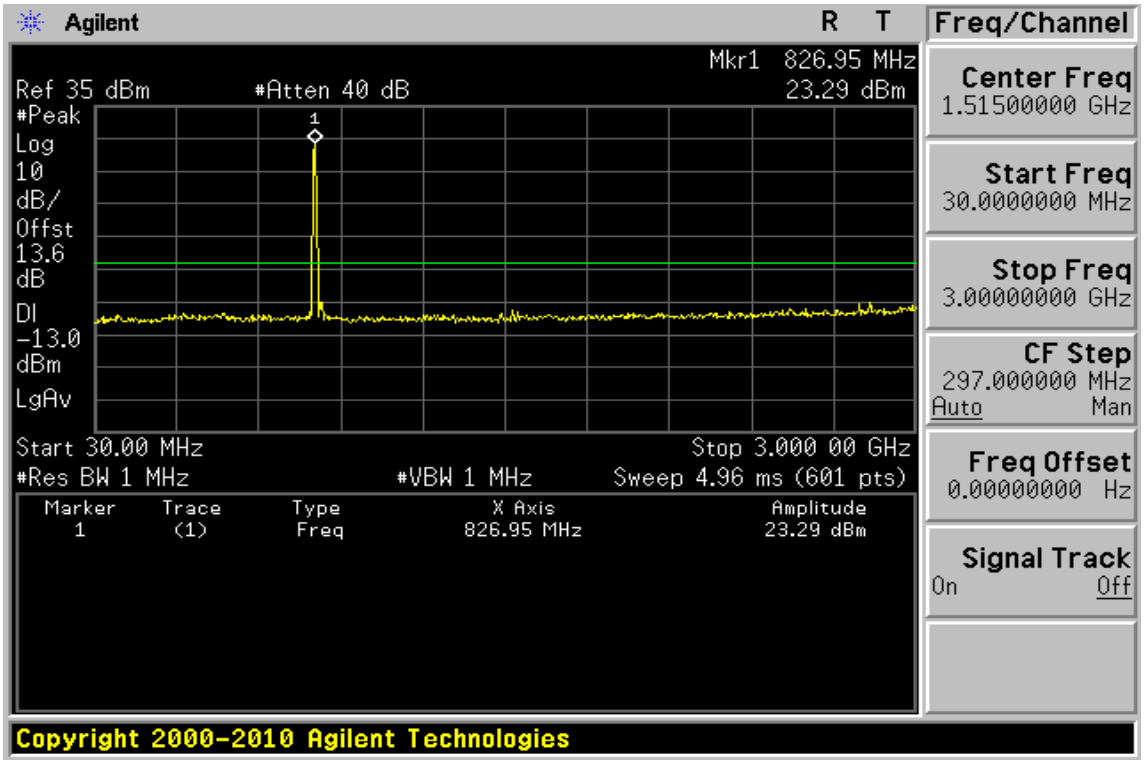
Figure 10-45: Band edge emission at antenna terminals – HSUPA IV Channel Highest

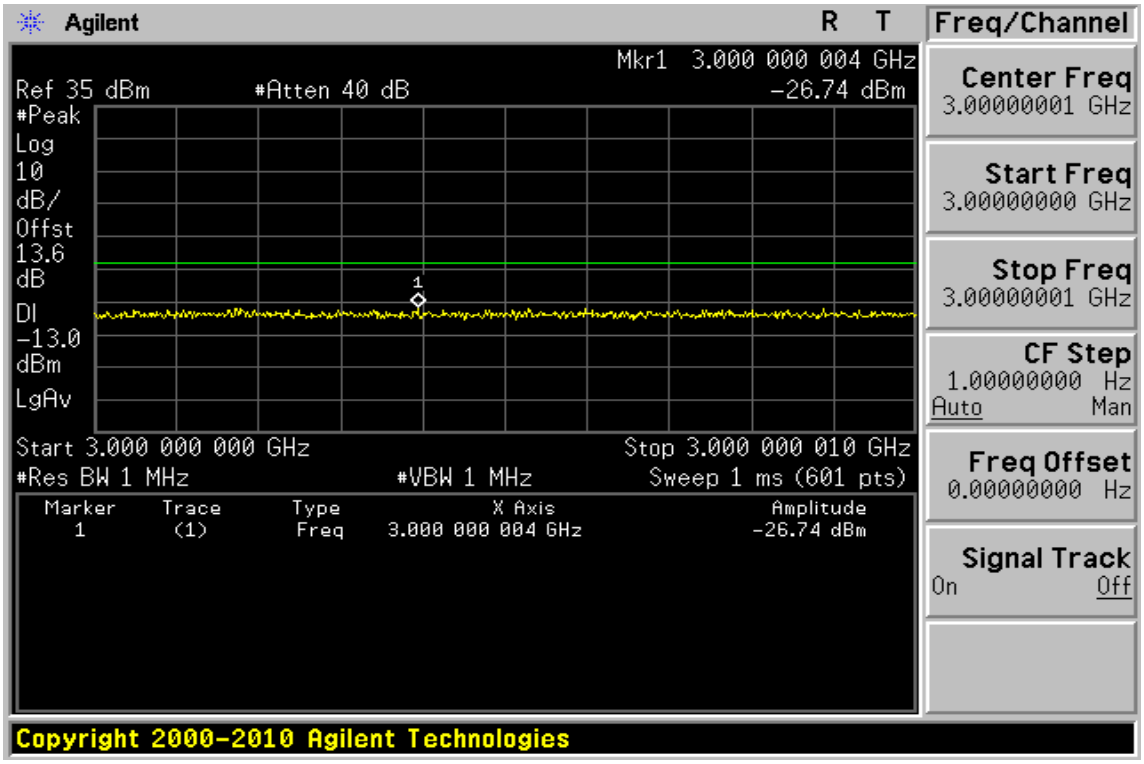


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Figure 10-46: Out of Band emission at antenna terminals – HSUPA V Channel Lowest

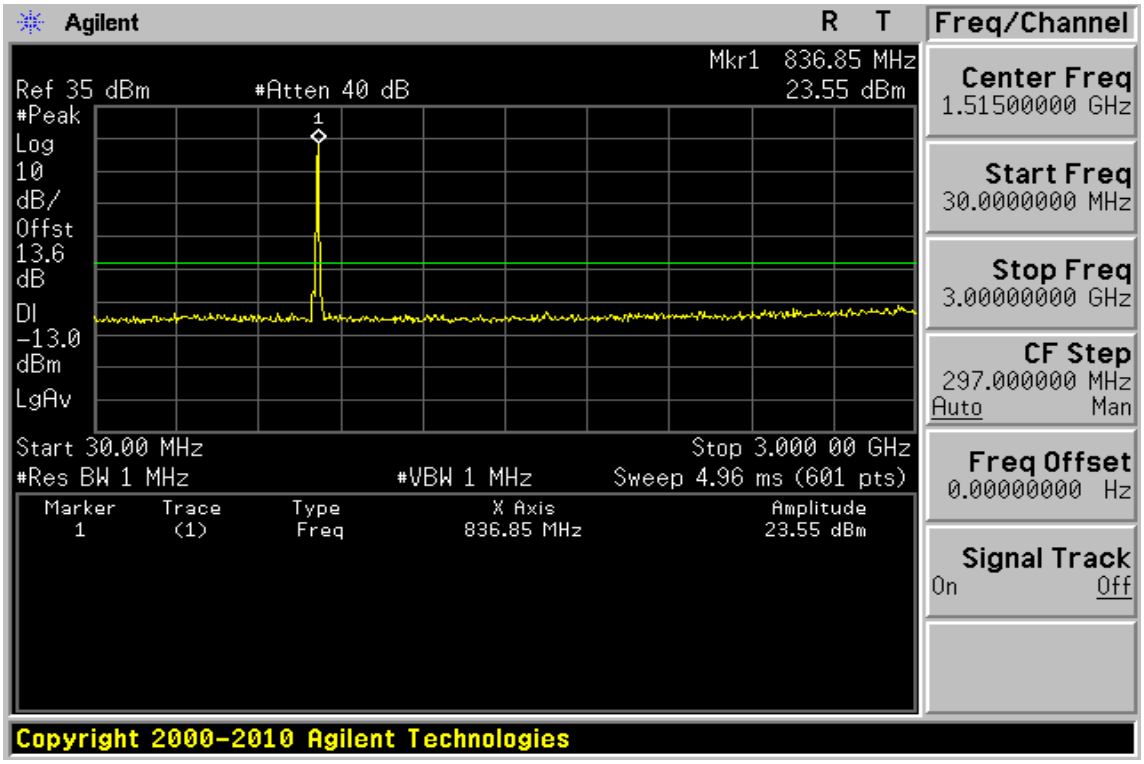


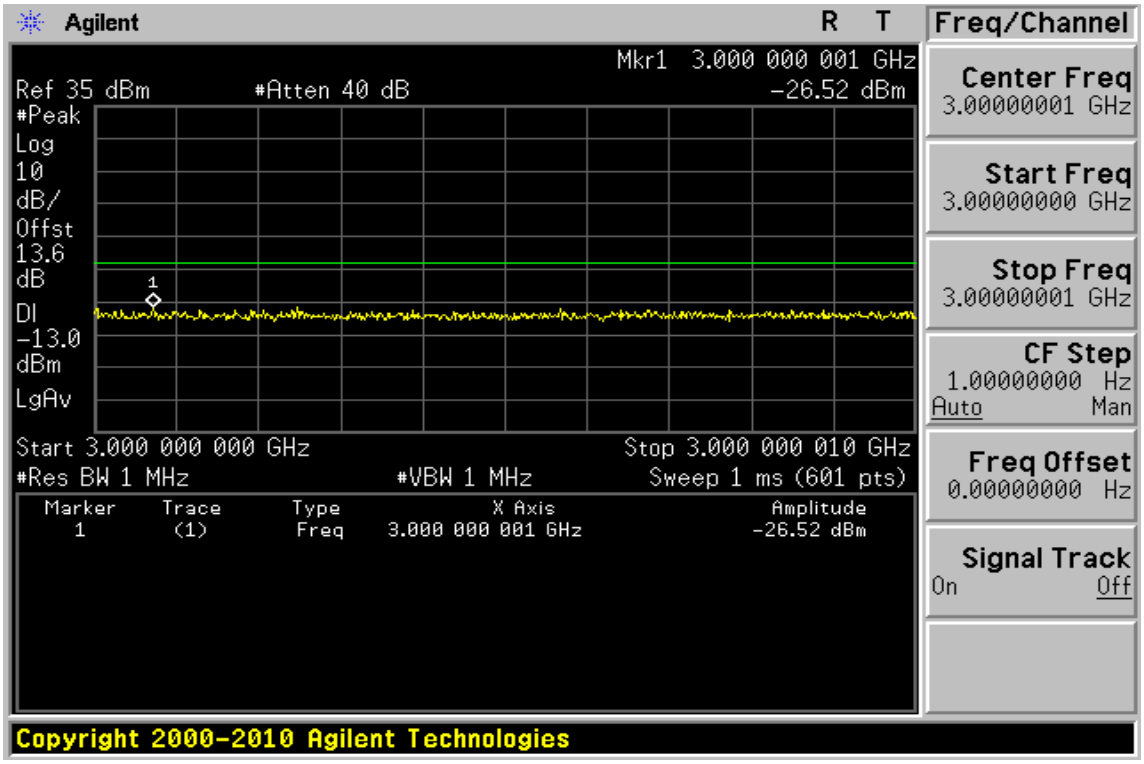


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Figure 10-47: Out of Band emission at antenna terminals – HSUPA V Channel Mid

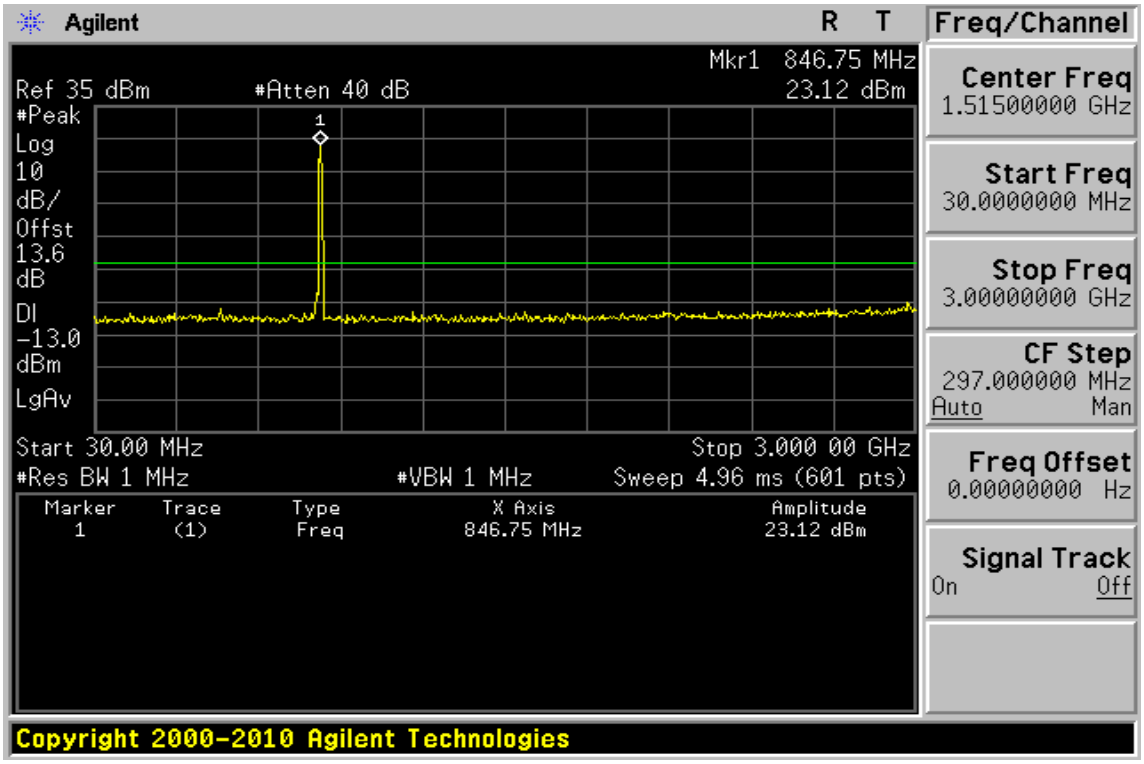


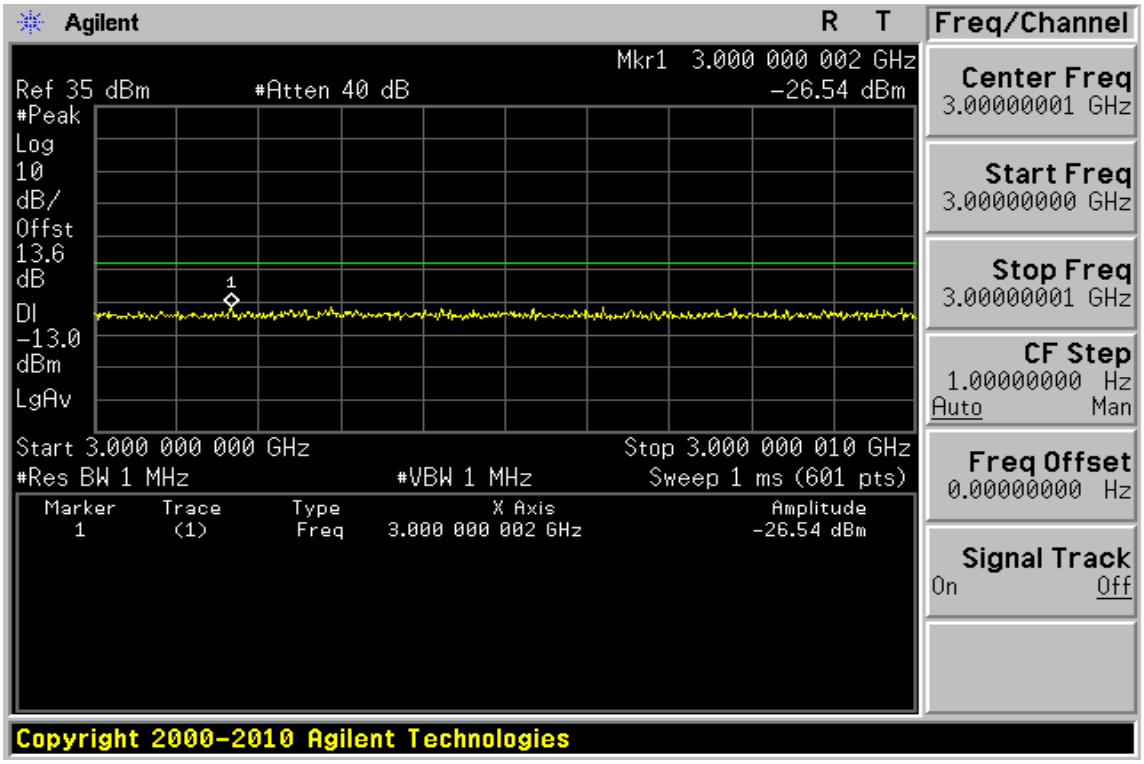


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Figure 10-48: Out of Band emission at antenna terminals – HSUPA V Channel Highest





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

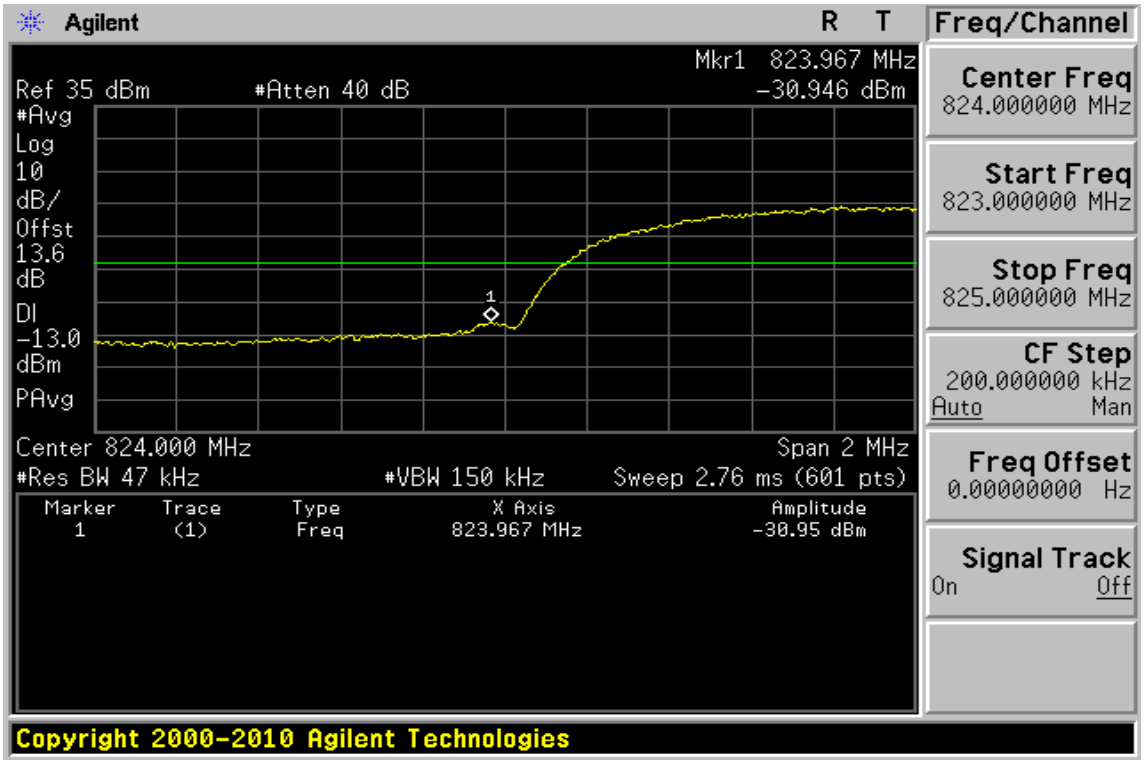
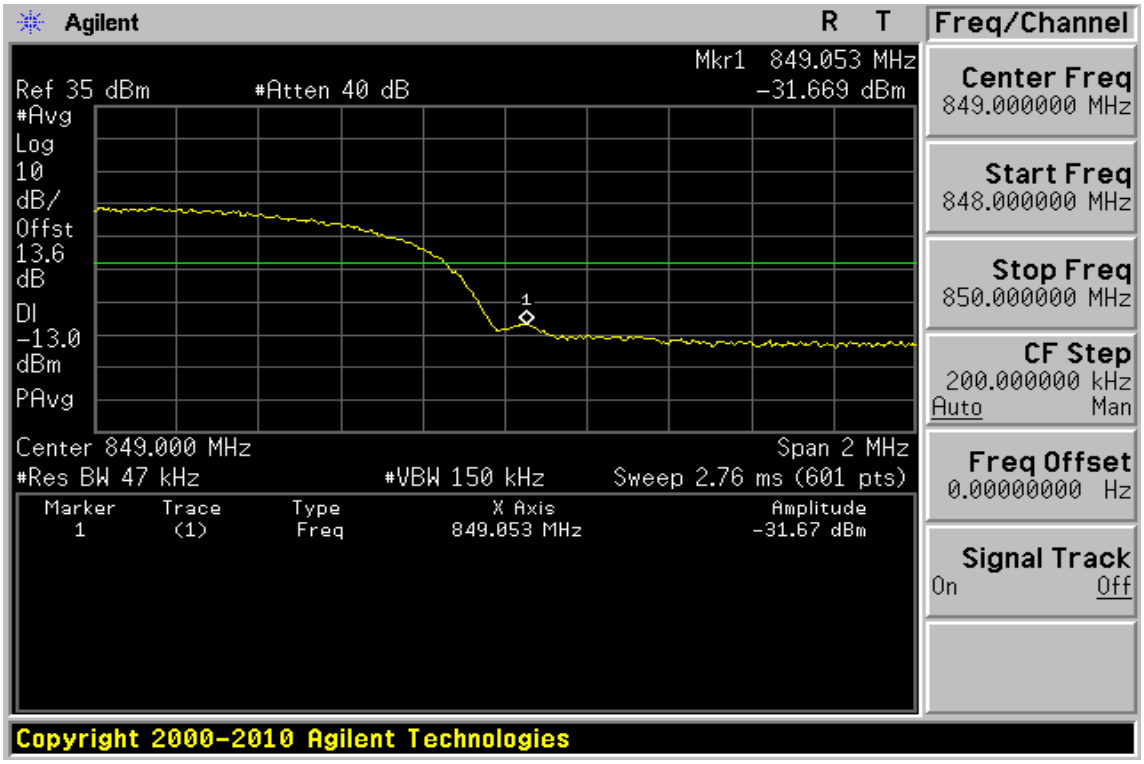


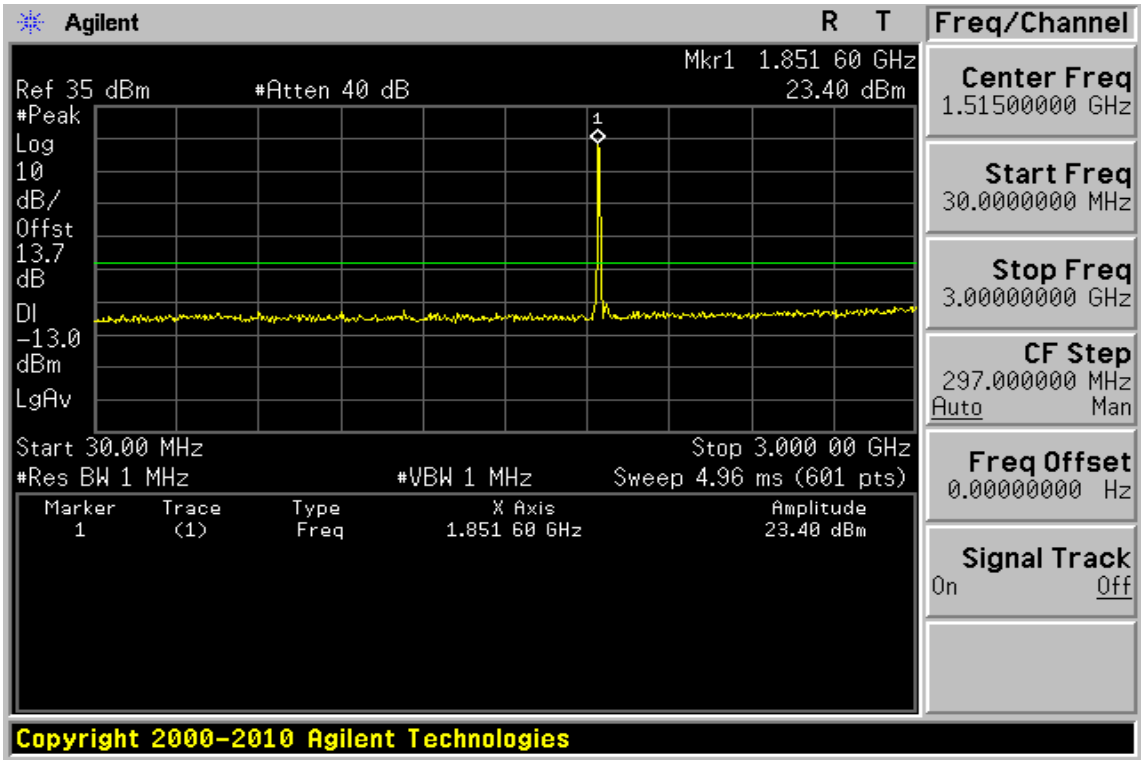
Figure 10-50: Band edge emission at antenna terminals – HSUPA V Channel Highest

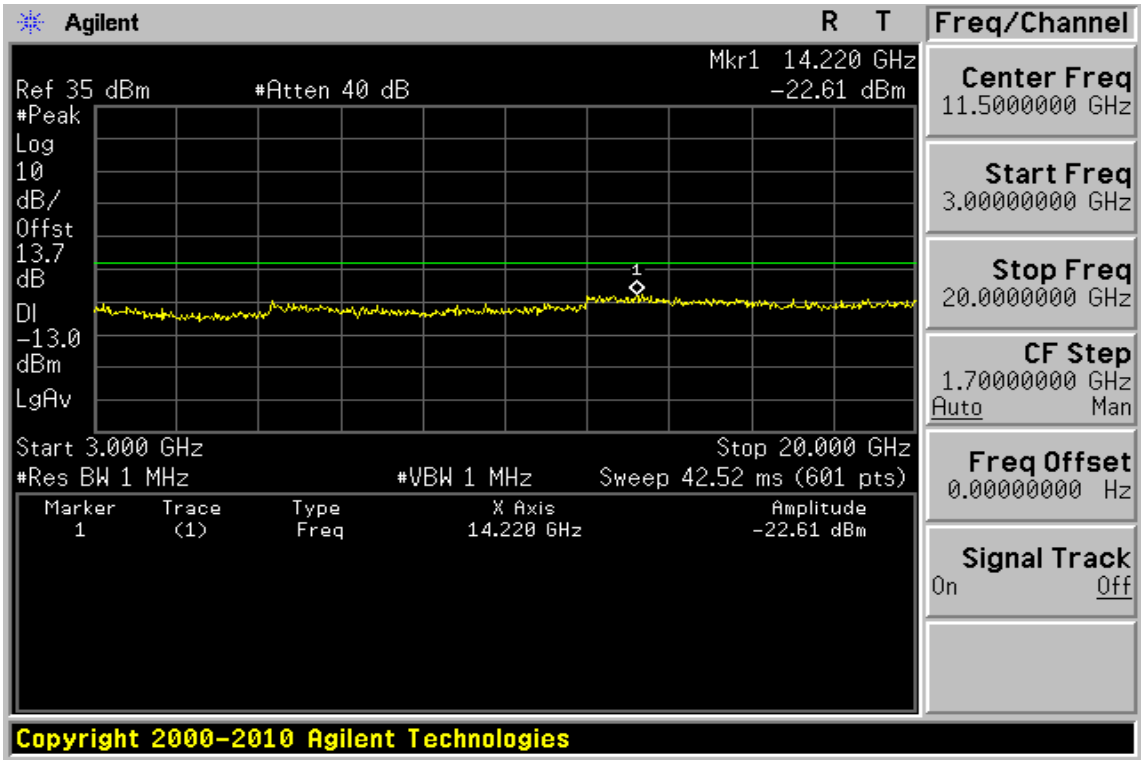


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Figure 10-51: Out of Band emission at antenna terminals – HSDPA II Channel Lowest

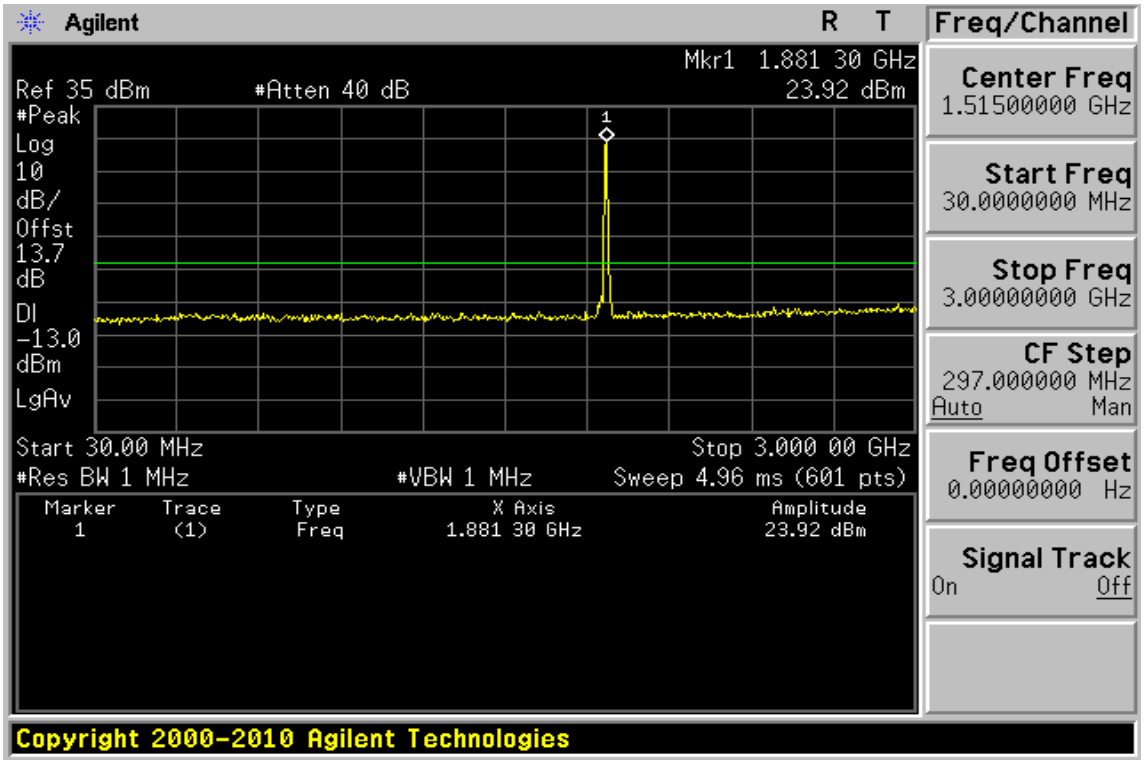


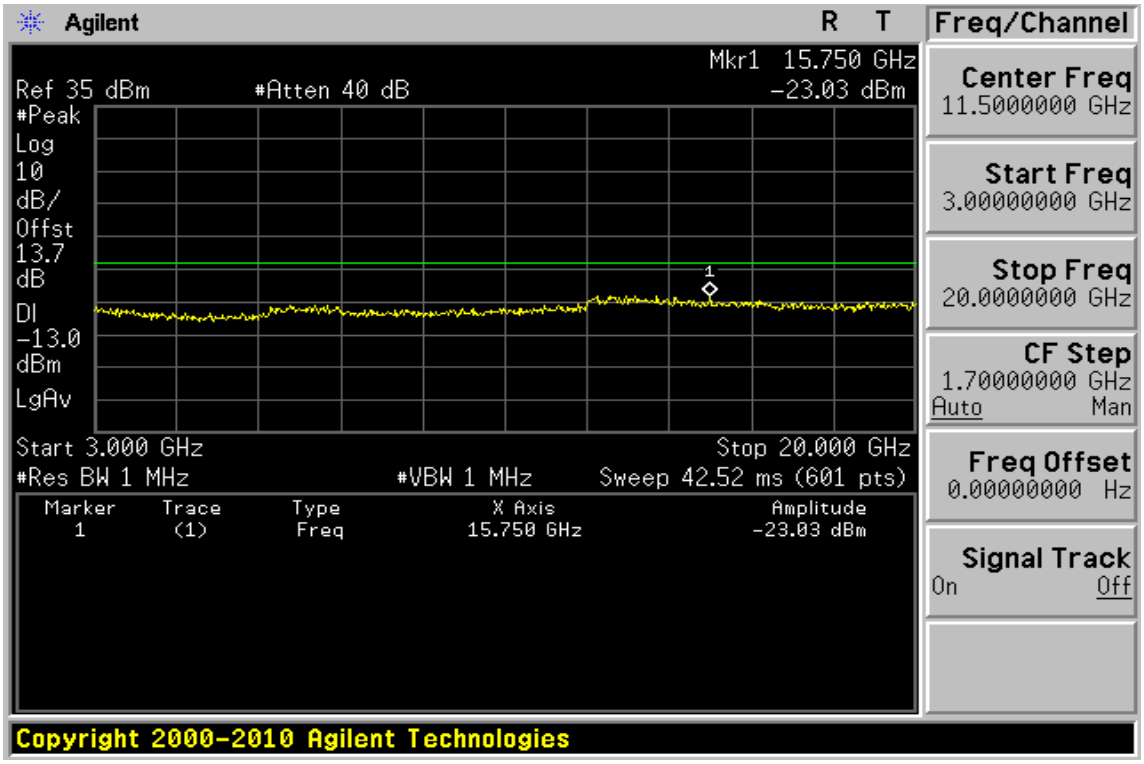


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Figure 10-52: Out of Band emission at antenna terminals – HSDPA II Channel Mid

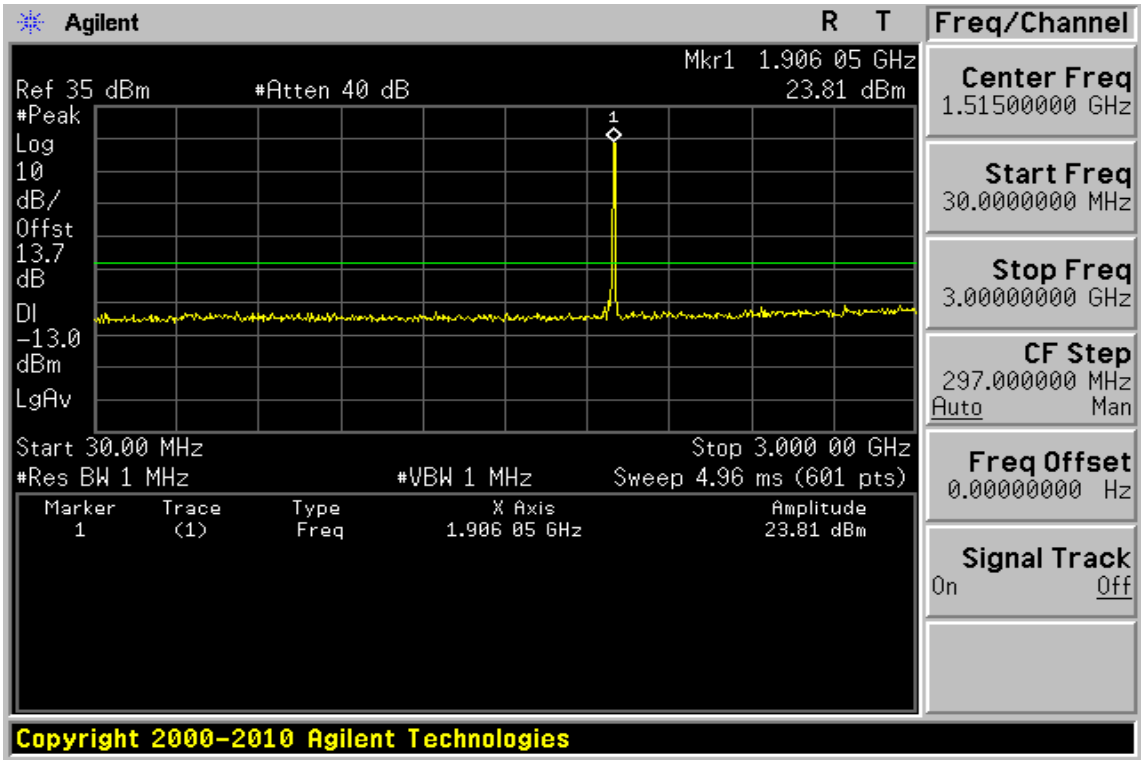


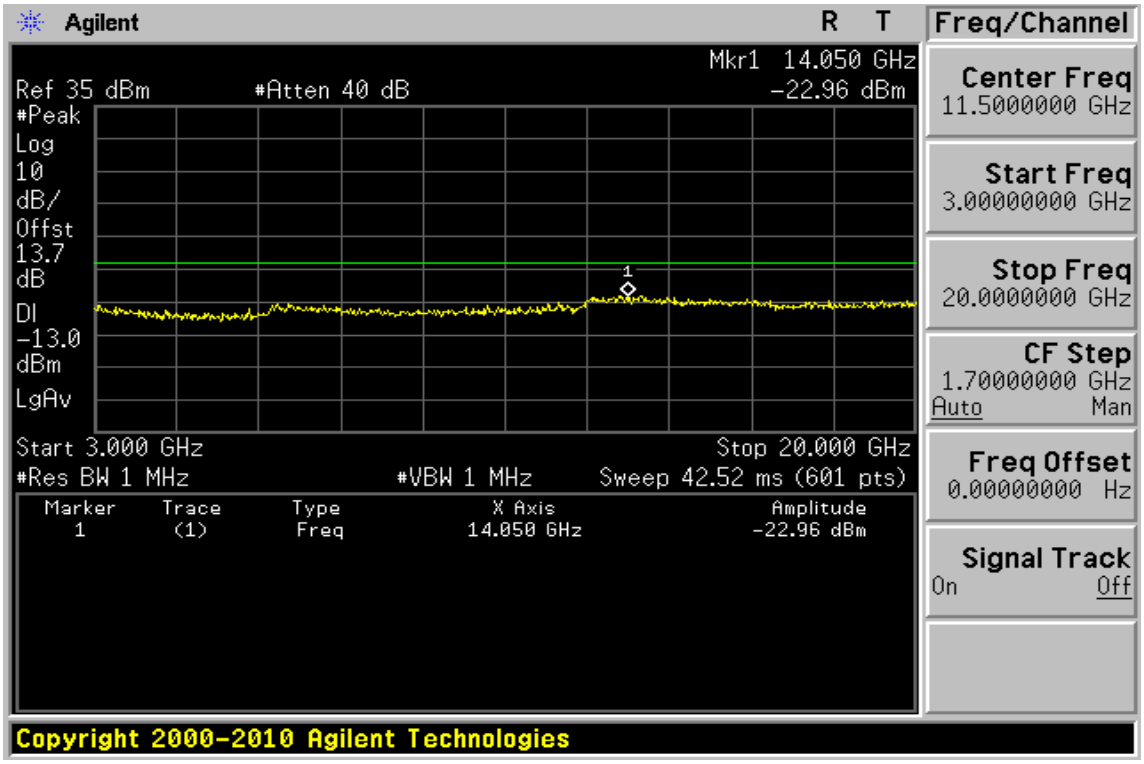


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Figure 10-53: Out of Band emission at antenna terminals – HSDPA II Channel Highest





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Figure 10-54: Bad edge emission at antenna terminals – HSDPA II Channel Lowest

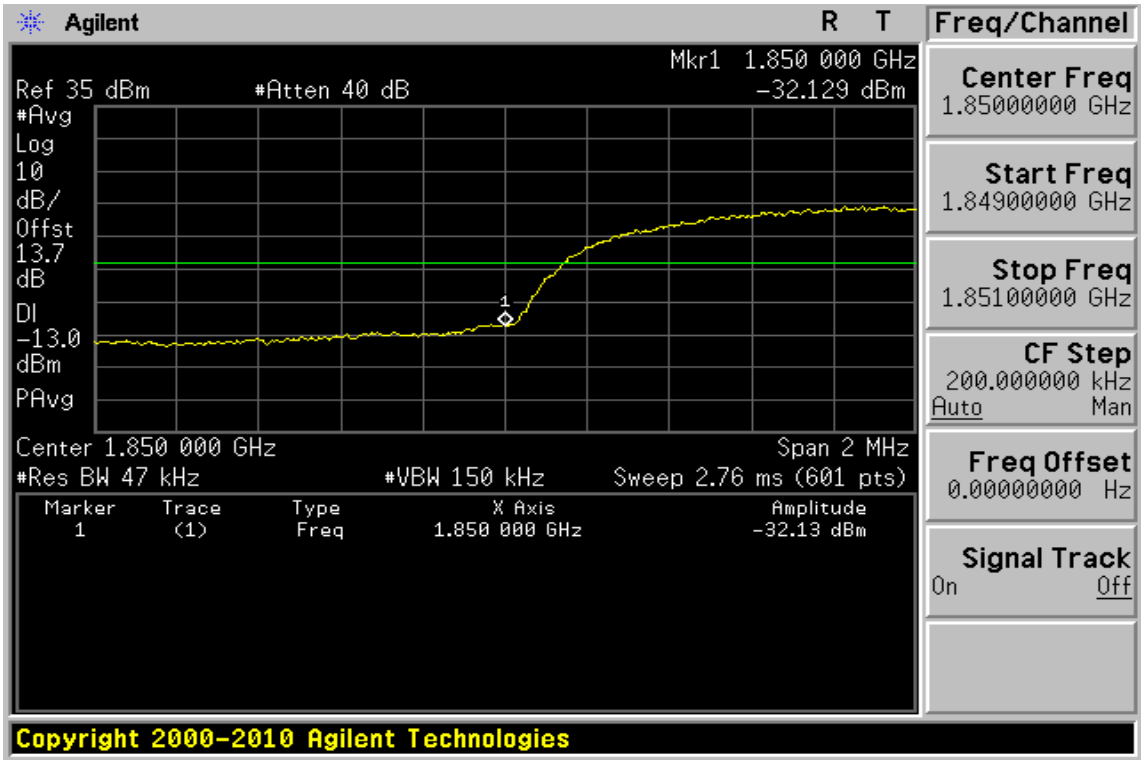
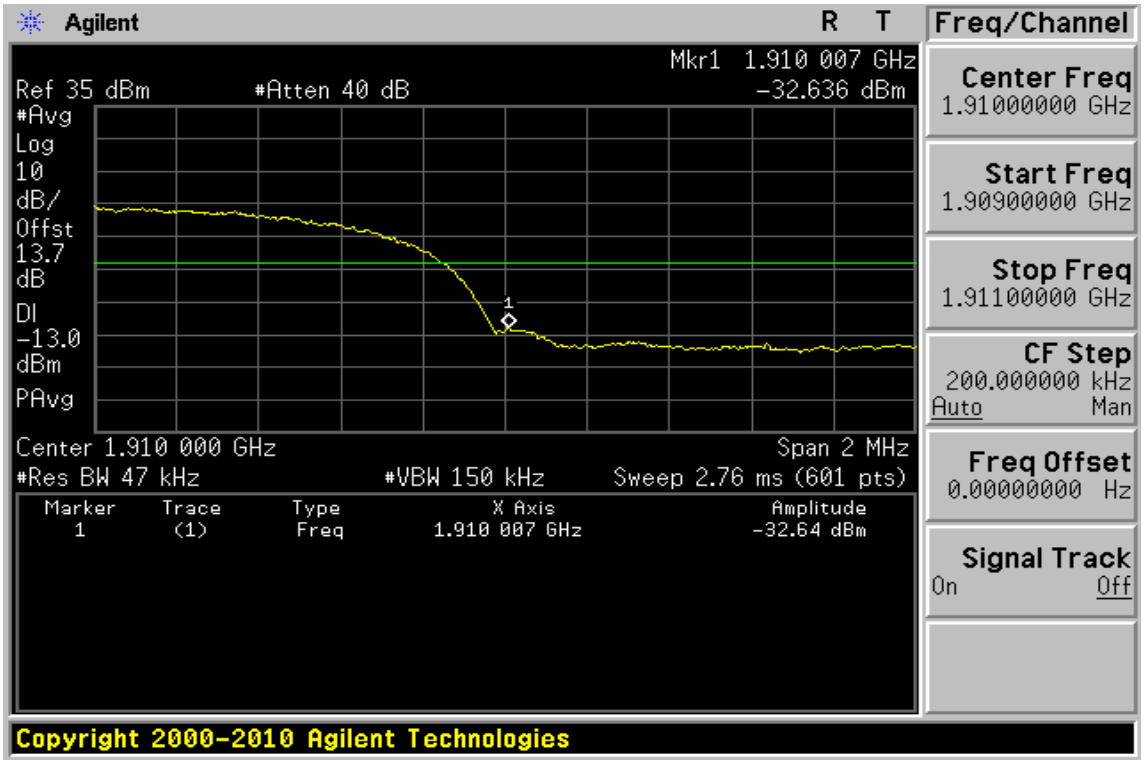


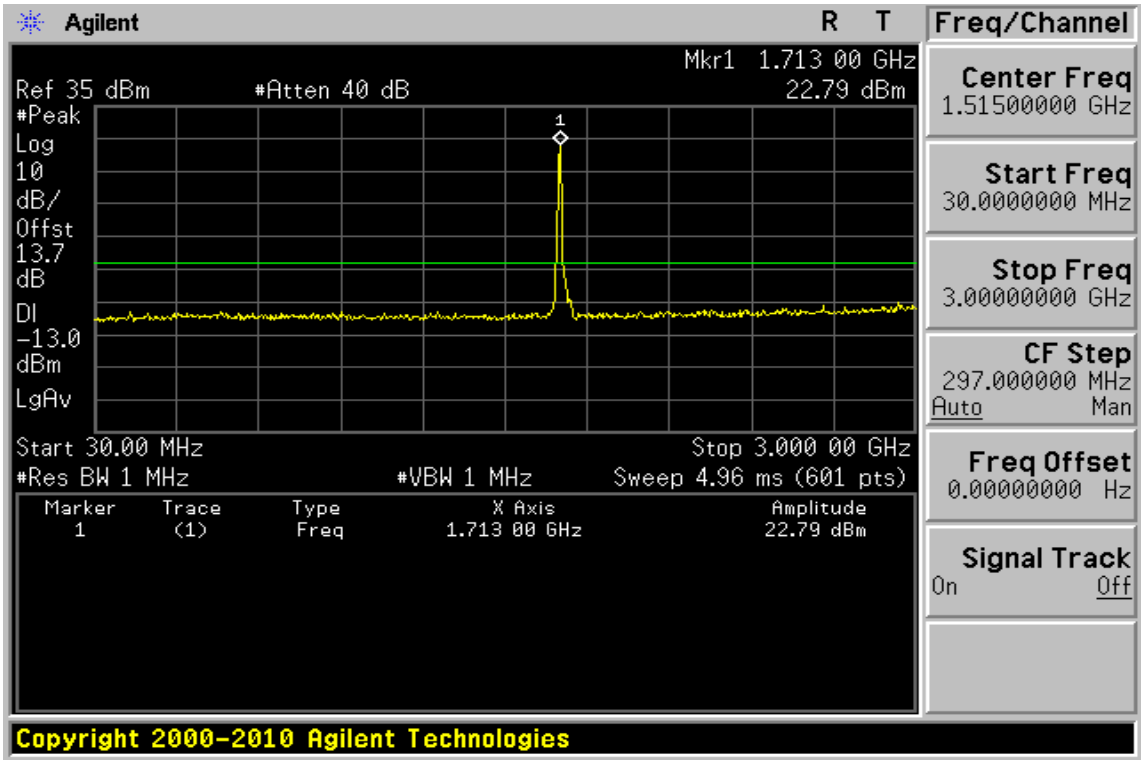
Figure 10-55: Band edge emission at antenna terminals – HSDPA II Channel Highest

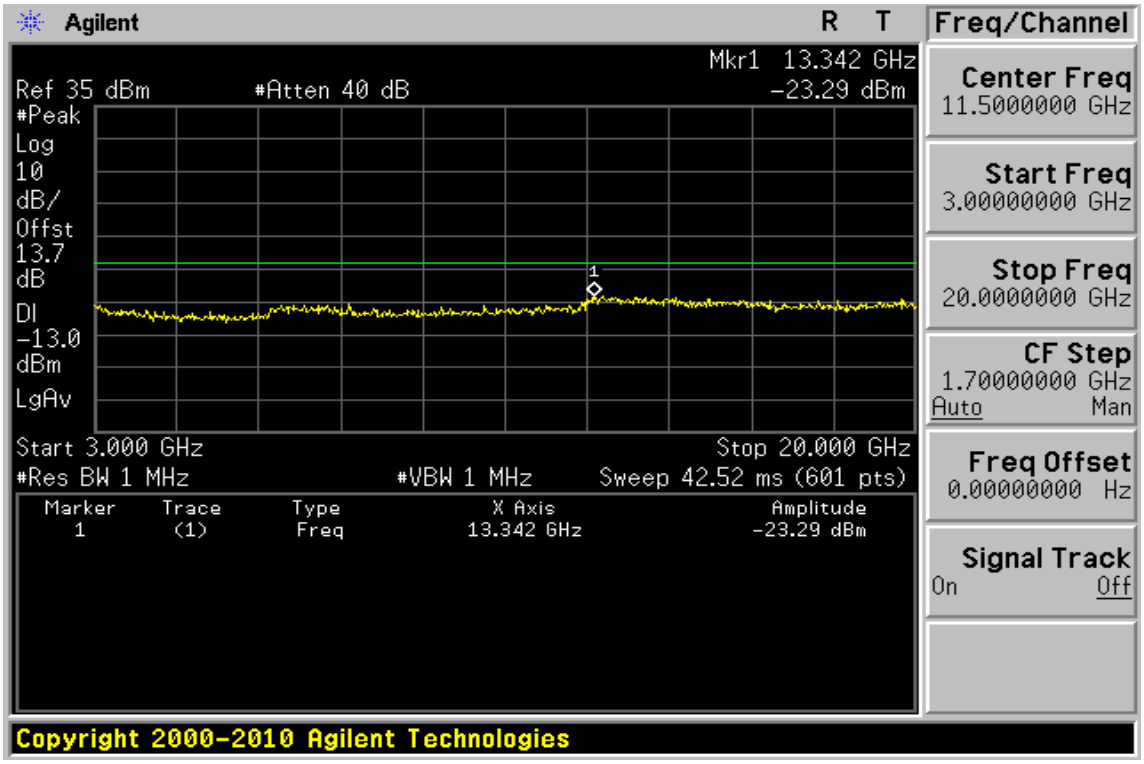


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Figure 10-56: Out of Band emission at antenna terminals – HSDPA IV Channel Lowest

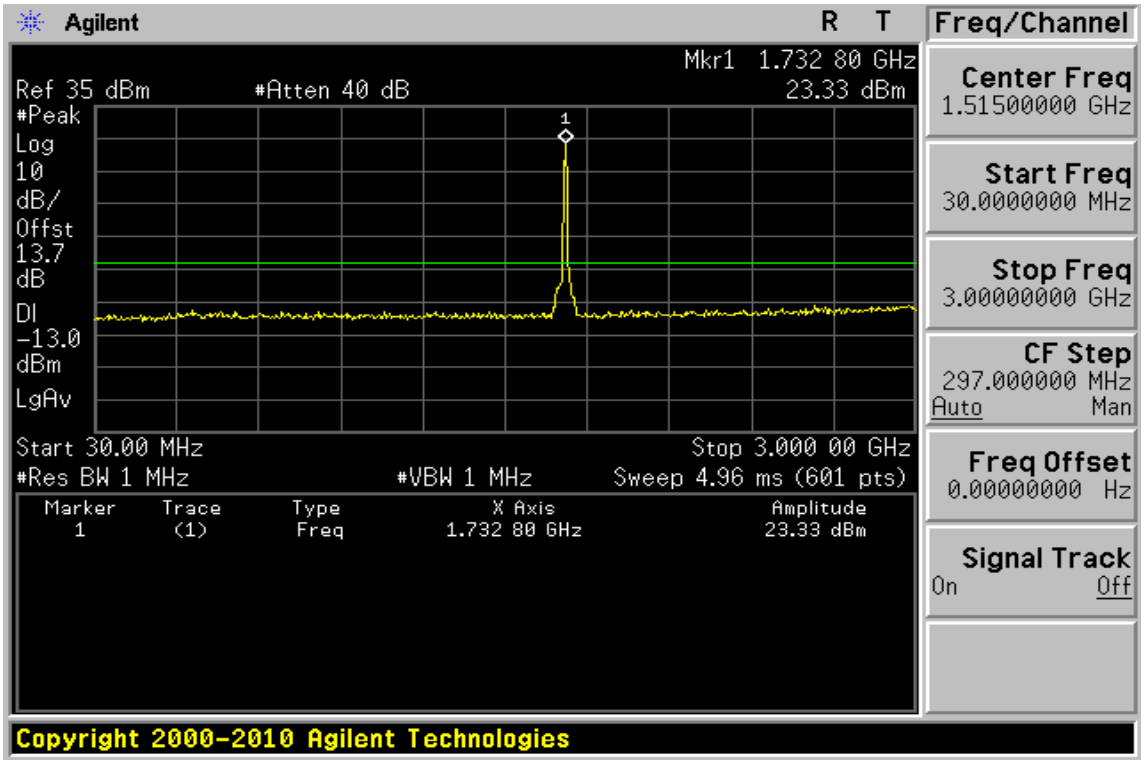


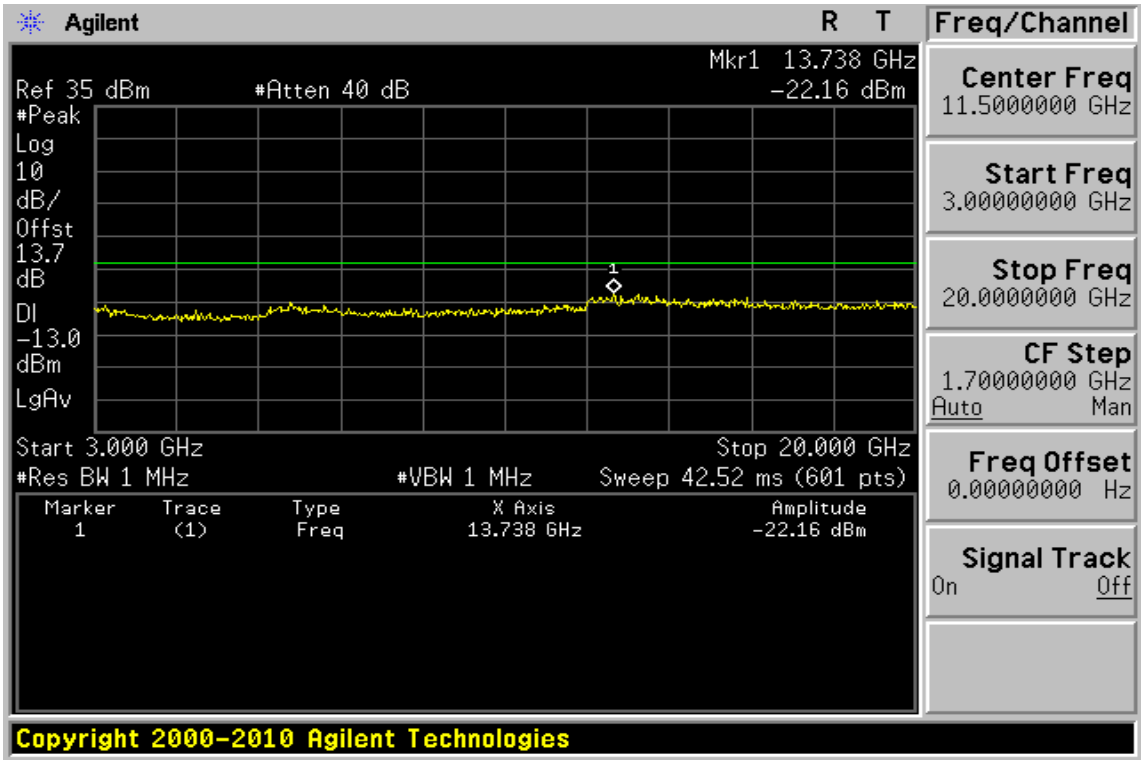


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Figure 10-57: Out of Band emission at antenna terminals – HSDPA IV Channel Mid

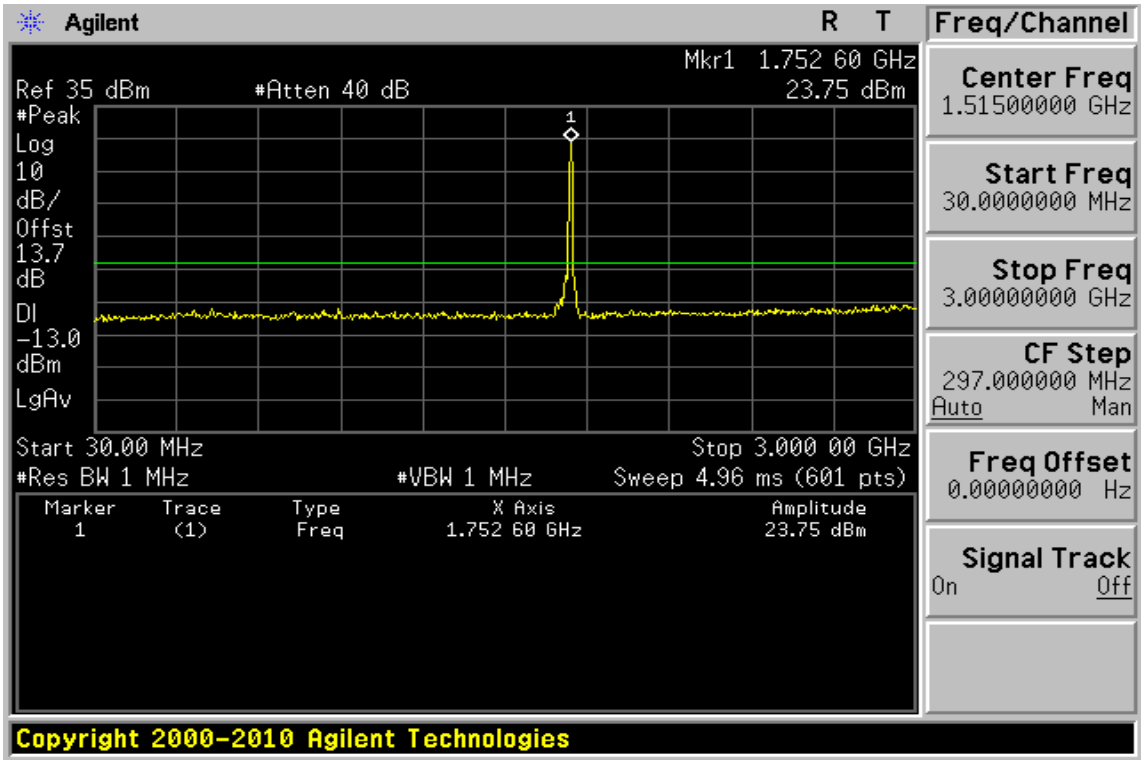


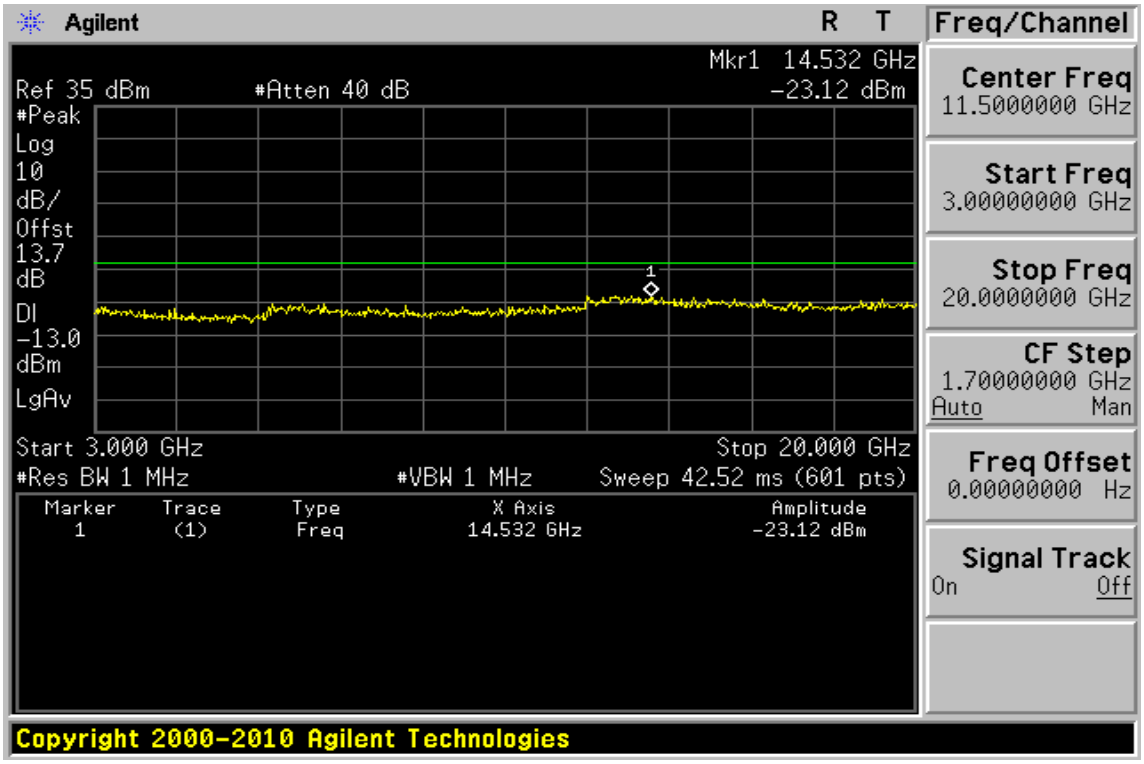


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Figure 10-58: Out of Band emission at antenna terminals – HSDPA IV Channel Highest





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Figure 10-59: Bad edge emission at antenna terminals – HSDPA IV Channel Lowest

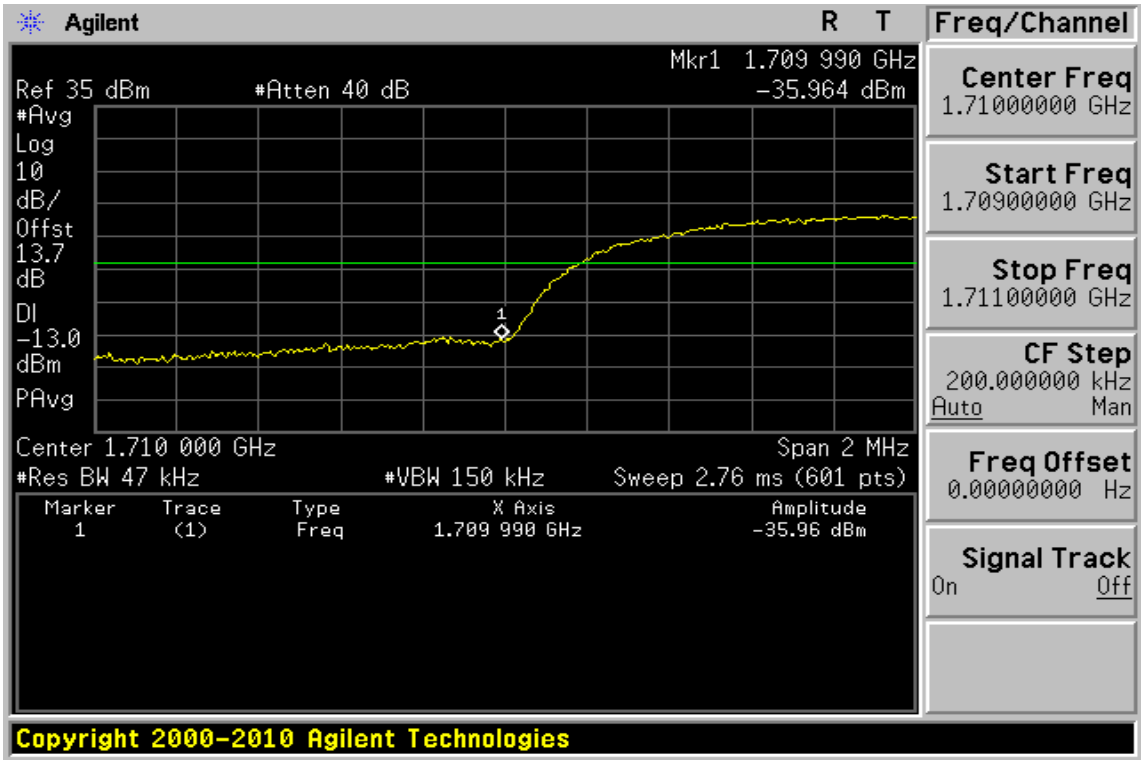
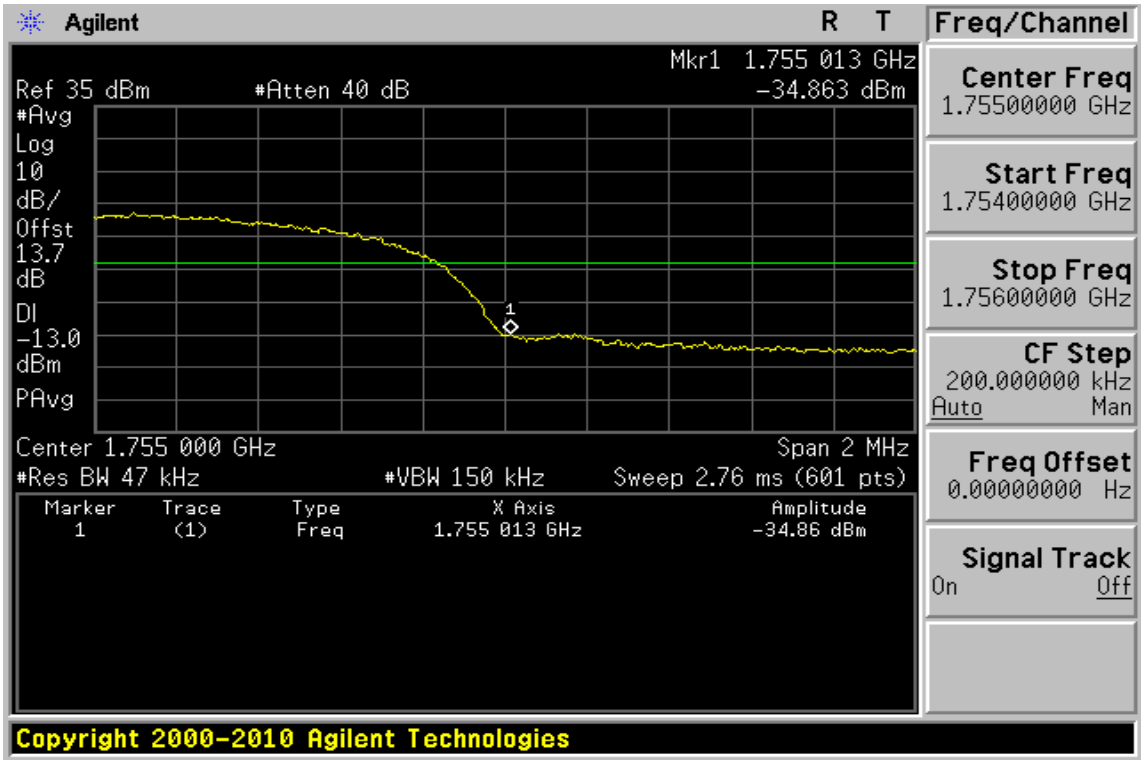


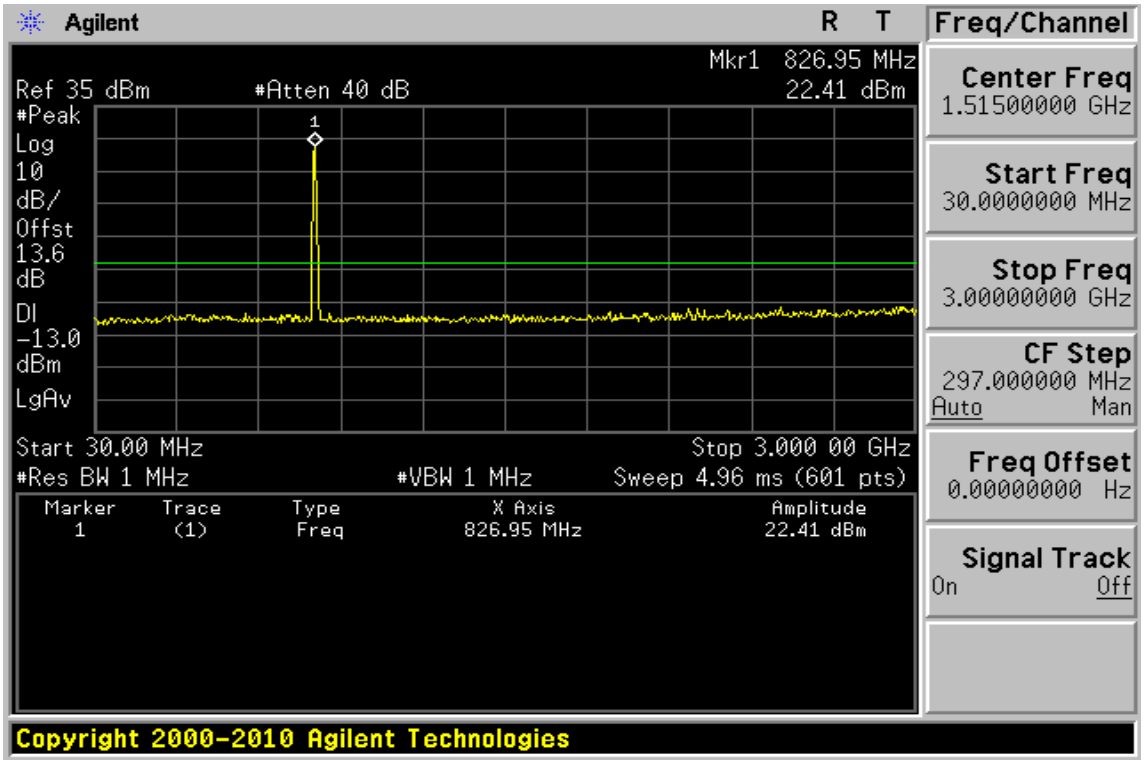
Figure 10-60: Band edge emission at antenna terminals – HSDPA IV Channel Highest

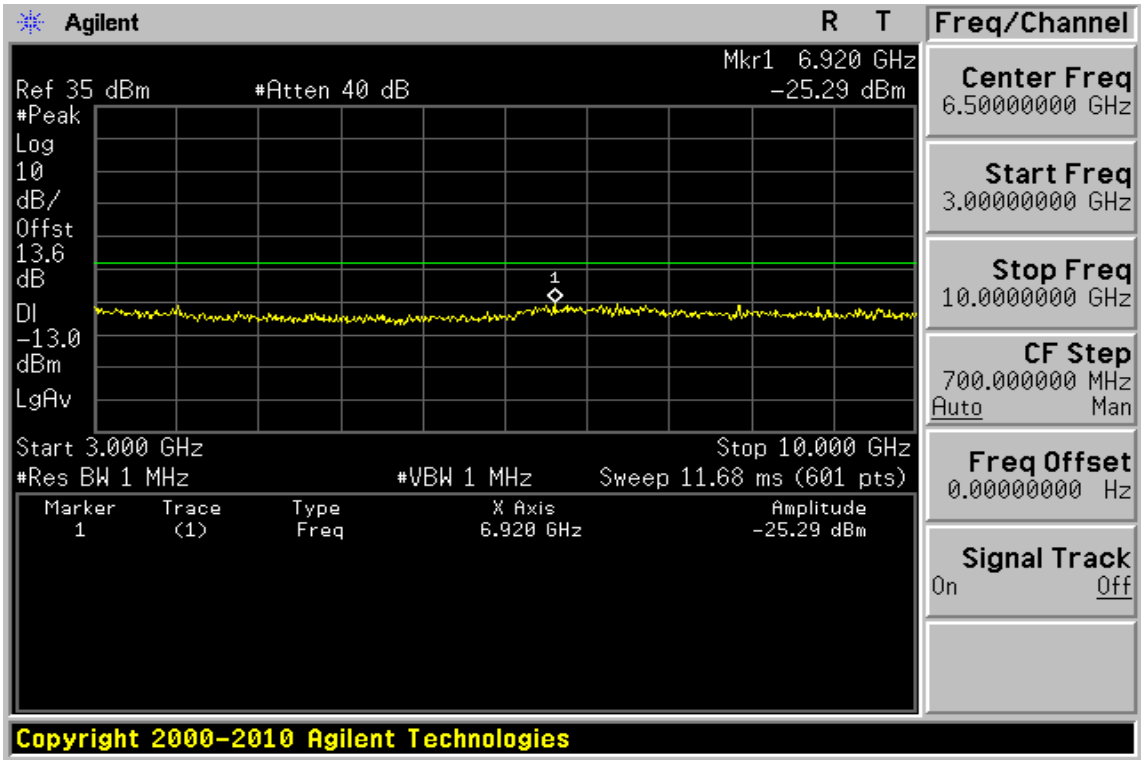


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Figure 10-61: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

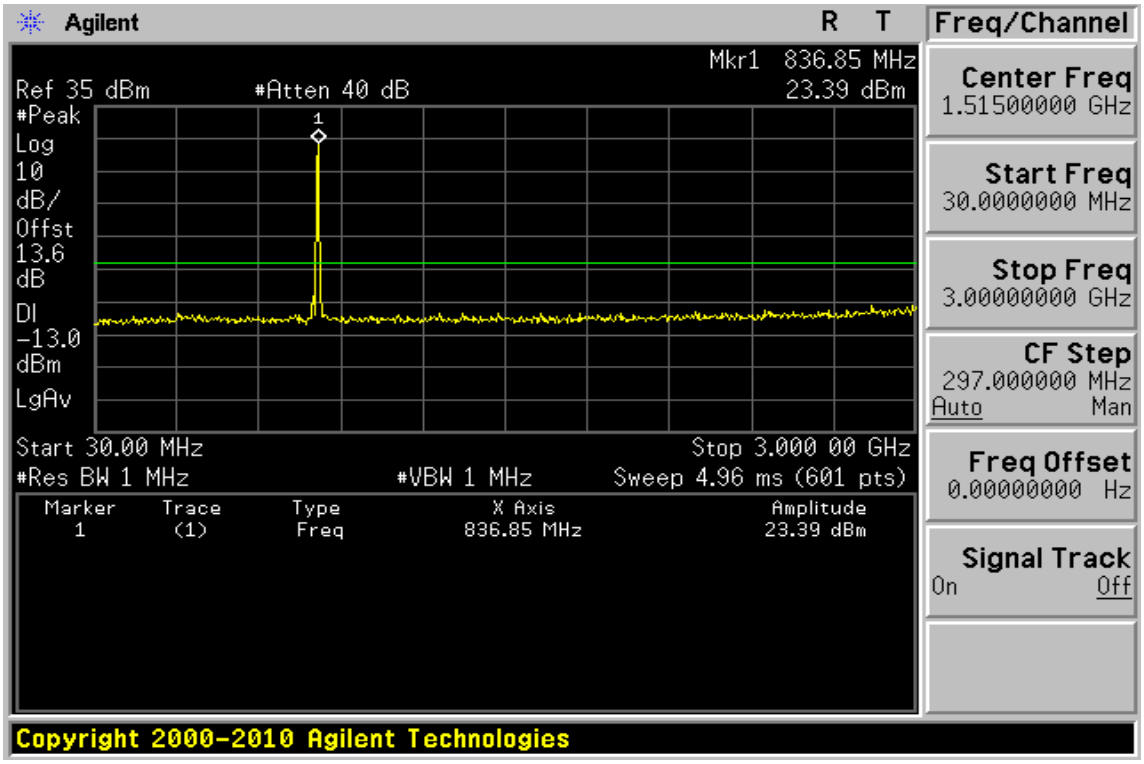


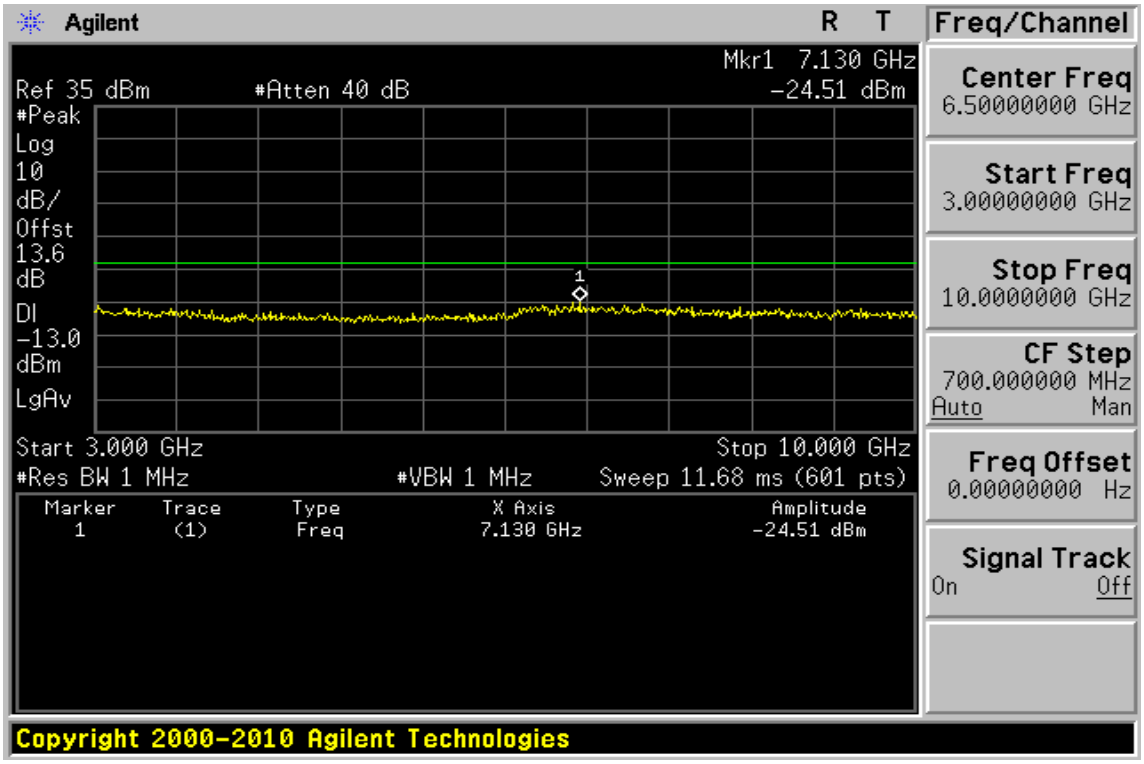


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Figure 10-62: Out of Band emission at antenna terminals – HSDPA V Channel Mid

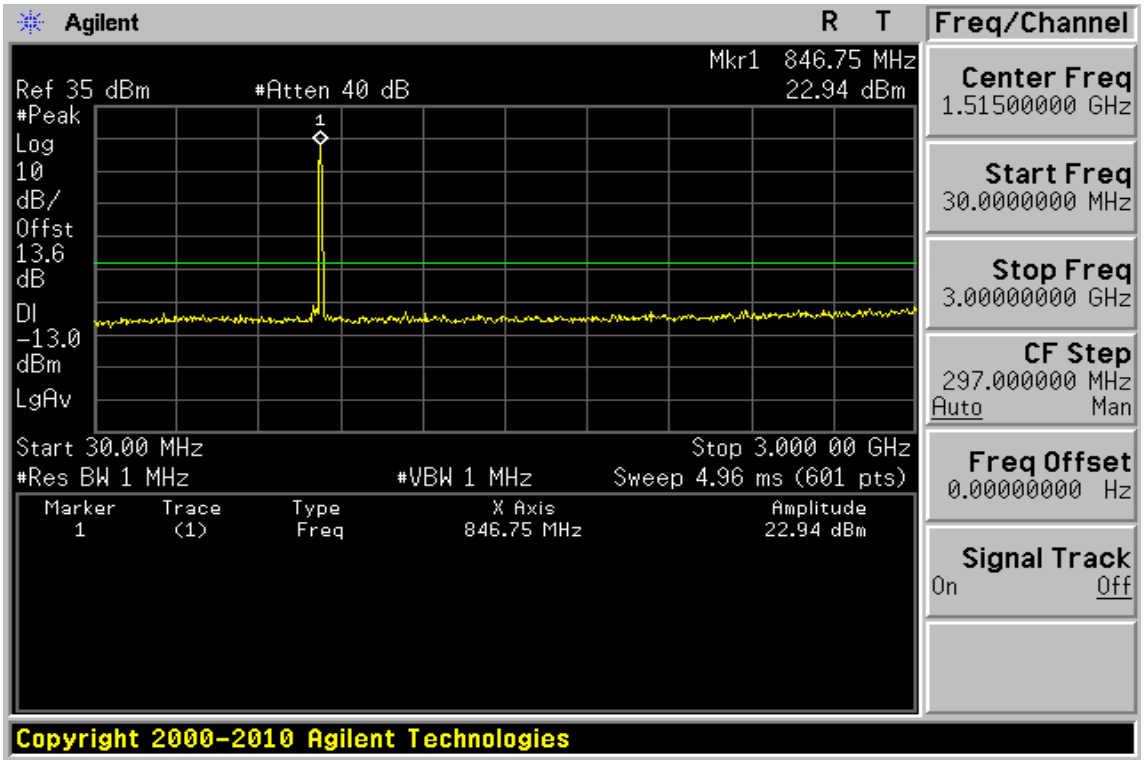


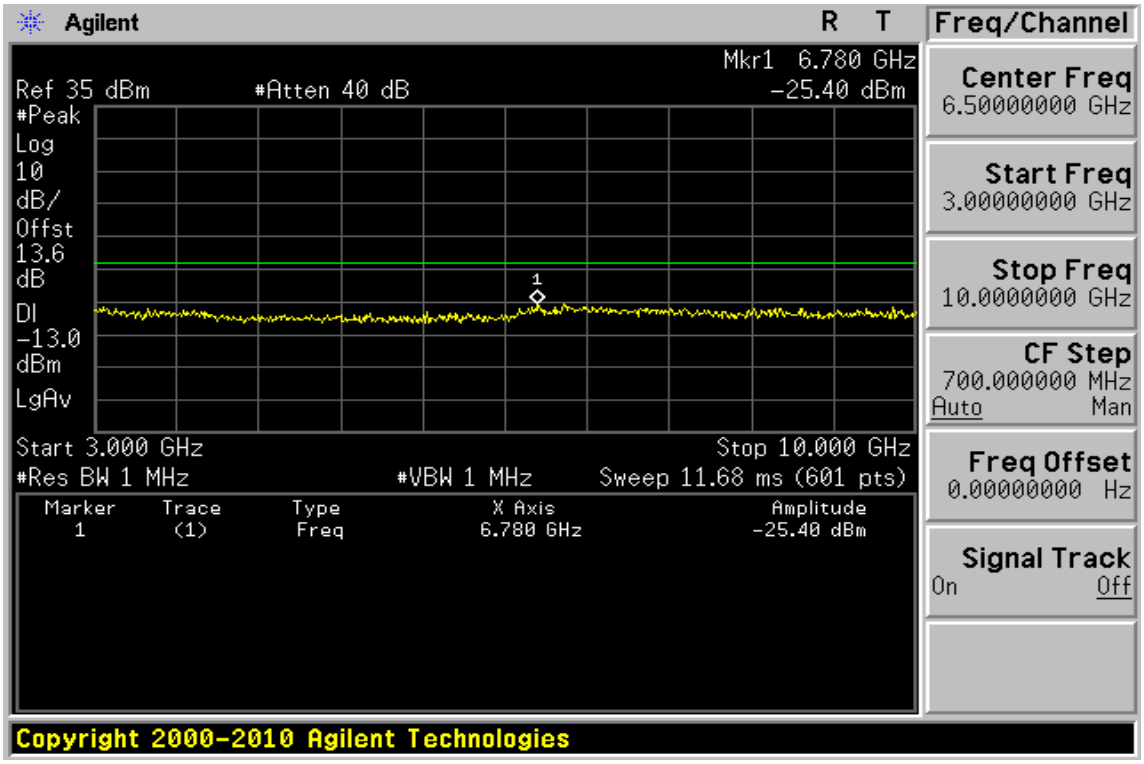


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Figure 10-63: Out of Band emission at antenna terminals – HSDPA V Channel Highest





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Figure 10-64: Bad edge emission at antenna terminals – HSDPA V Channel Lowest

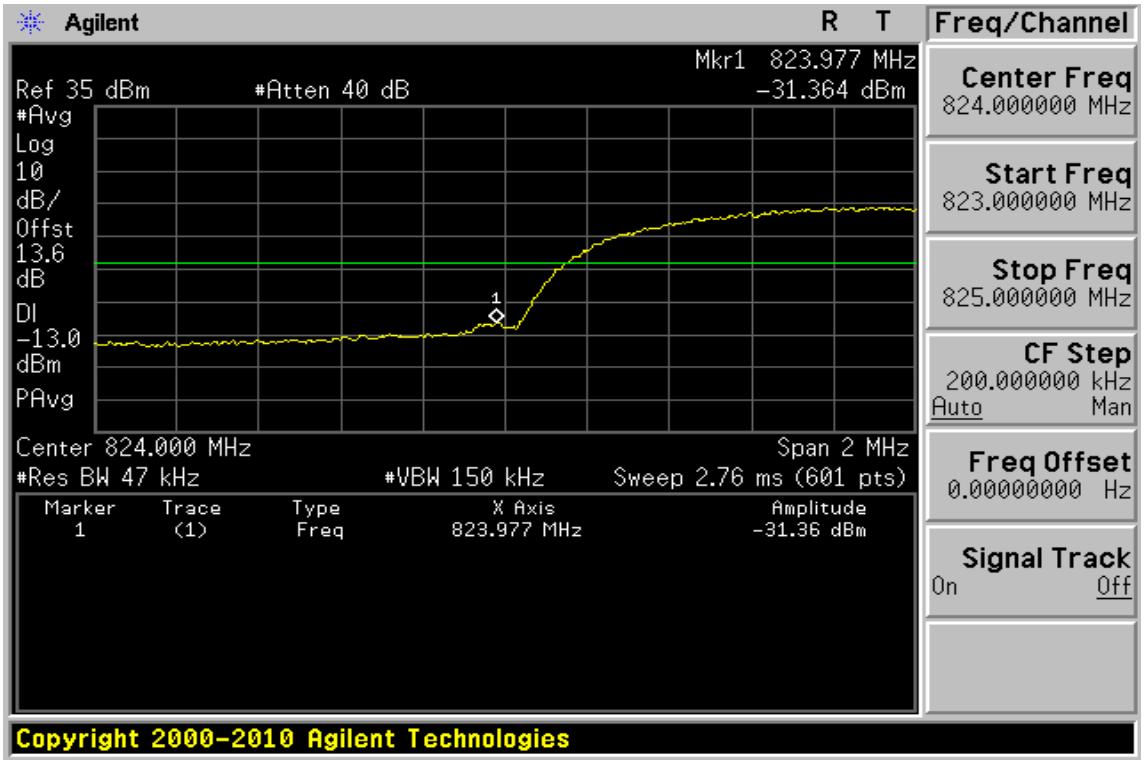
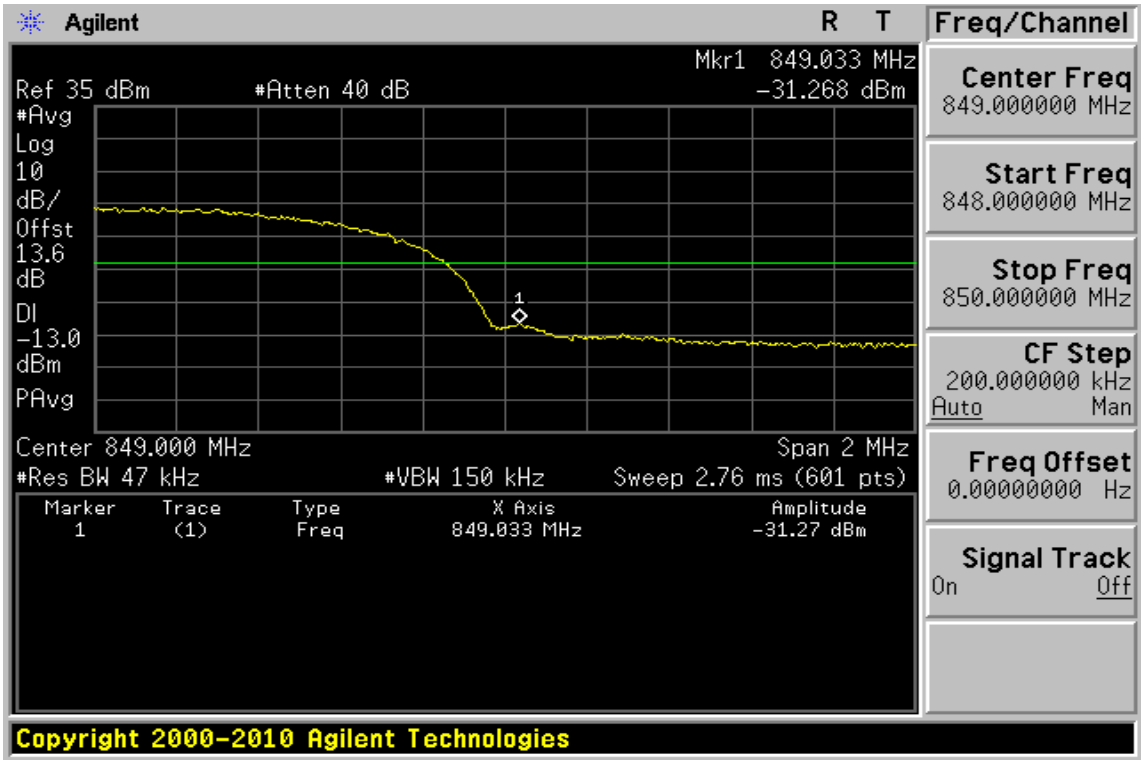


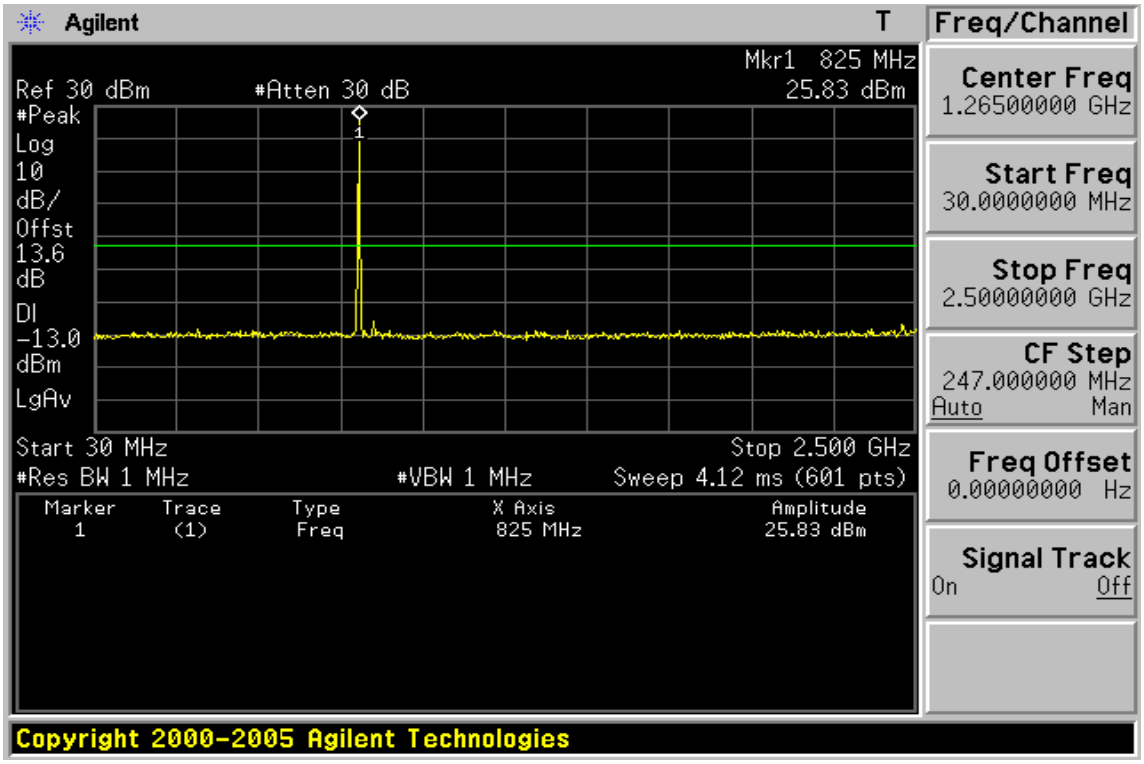
Figure 10-65: Band edge emission at antenna terminals – HSDPA V Channel Highest

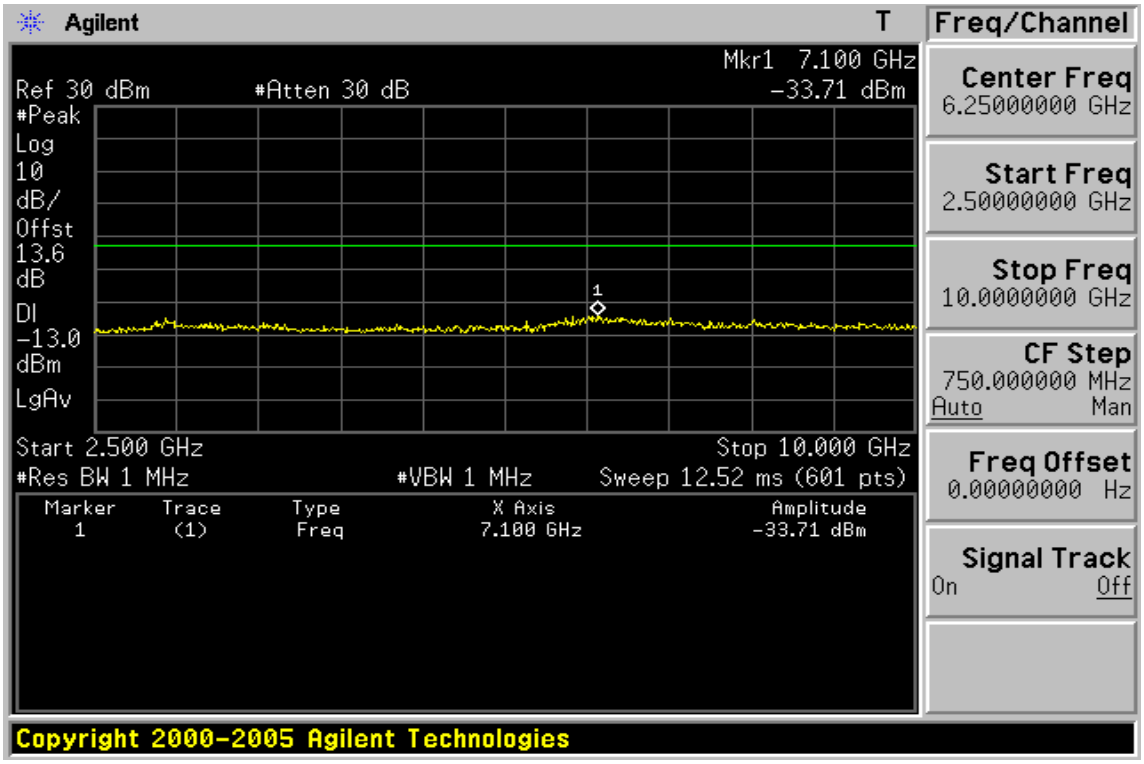


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Figure 10-66: Out of Band emission at antenna terminals – CDMA 2000 Cellular Channel Lowest

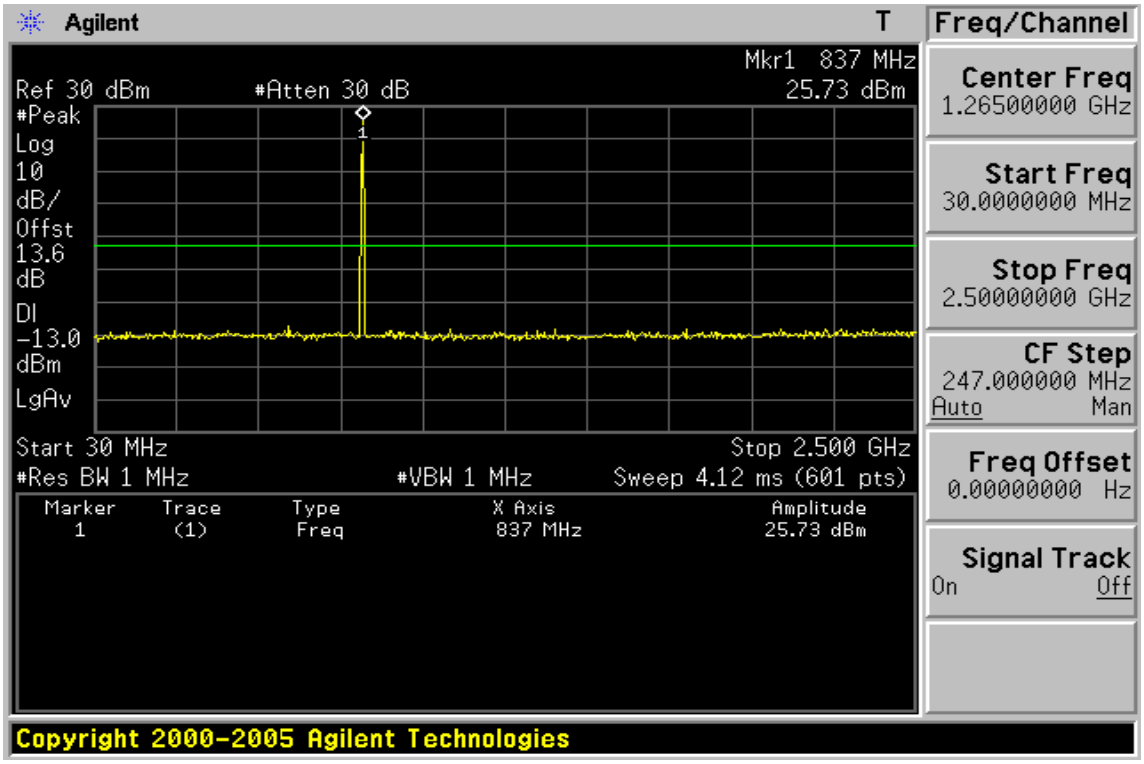


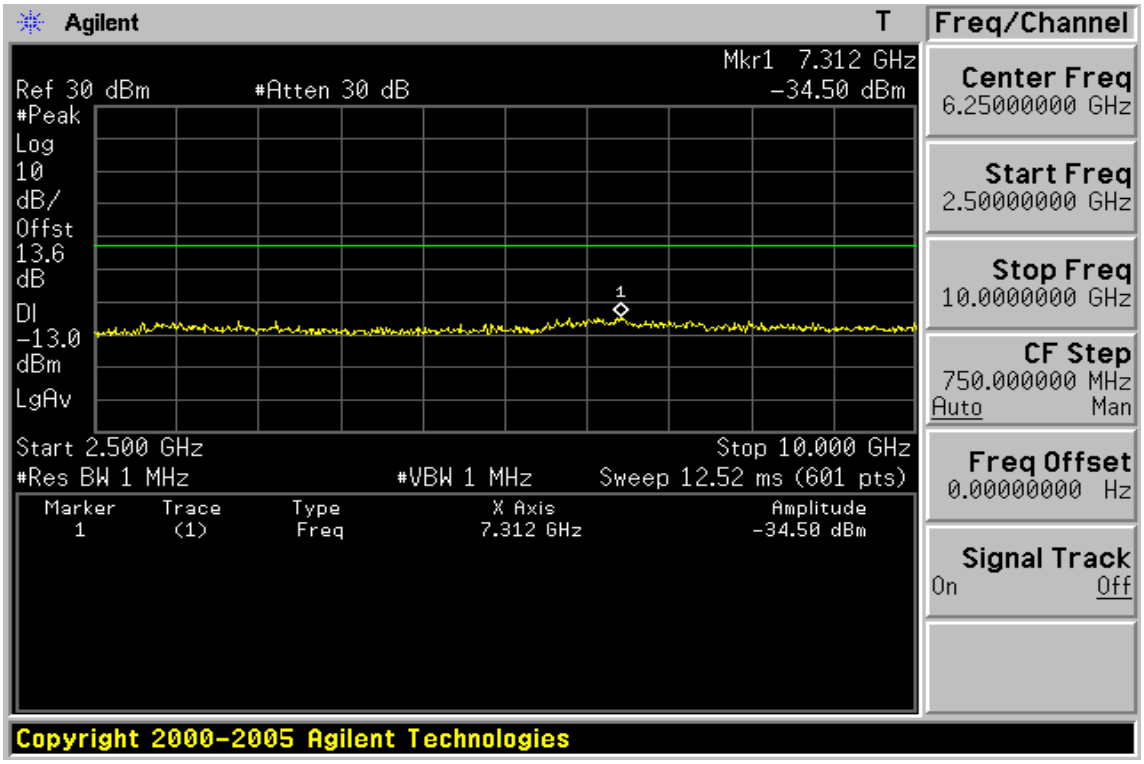


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Figure 10-67: Out of Band emission at antenna terminals – CDMA 2000 Cellular Channel Mid

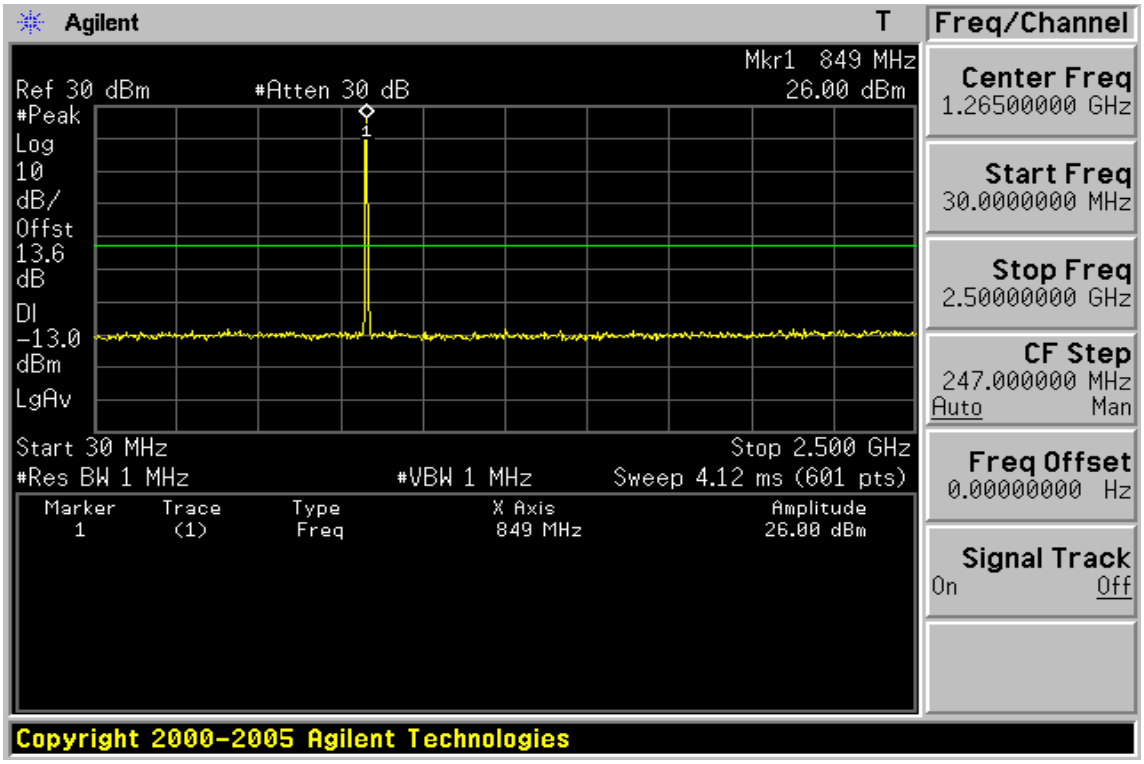


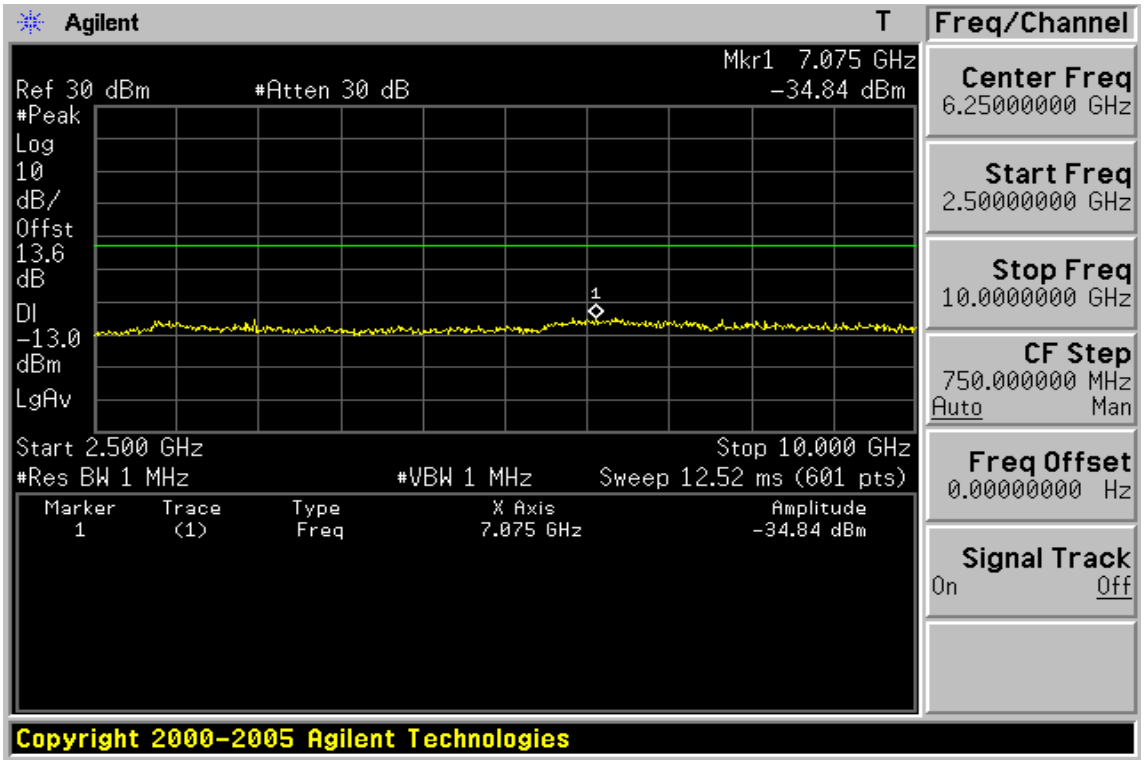


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Figure 10-68: Out of Band emission at antenna terminals – CDMA 2000 Cellular Channel Highest





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Figure 10-69: Band edge emission at antenna terminals – CDMA 2000 Cellular Channel Lowest

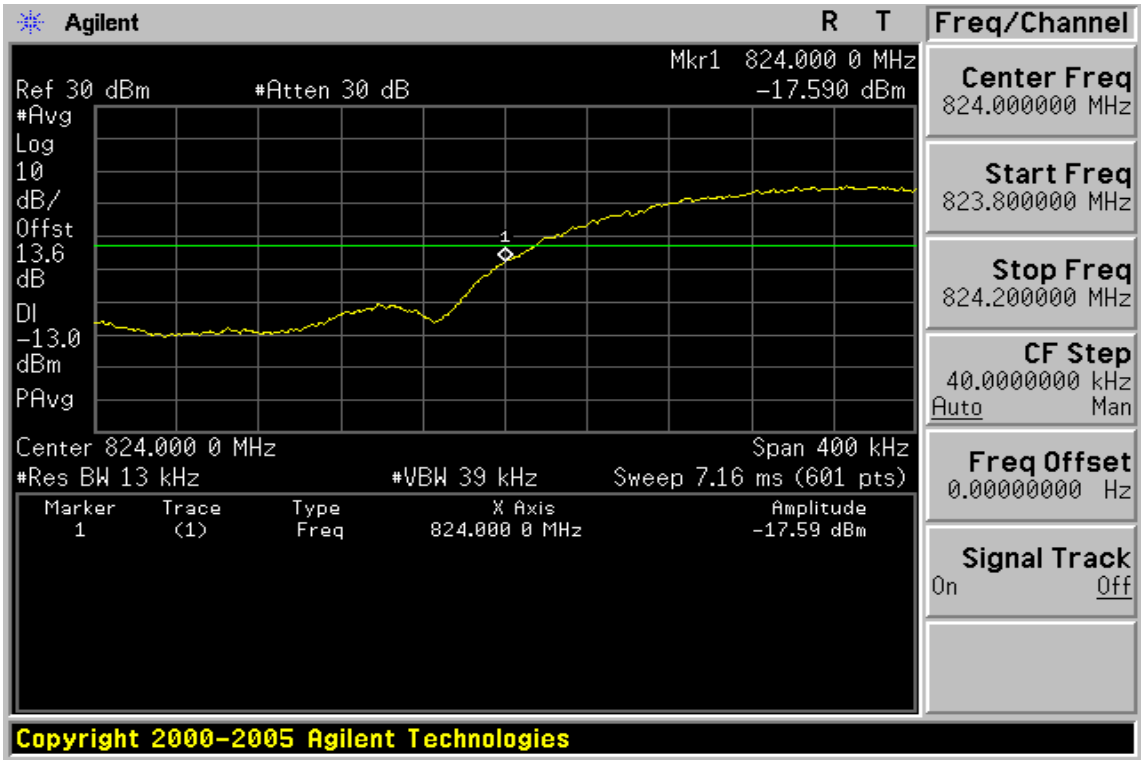
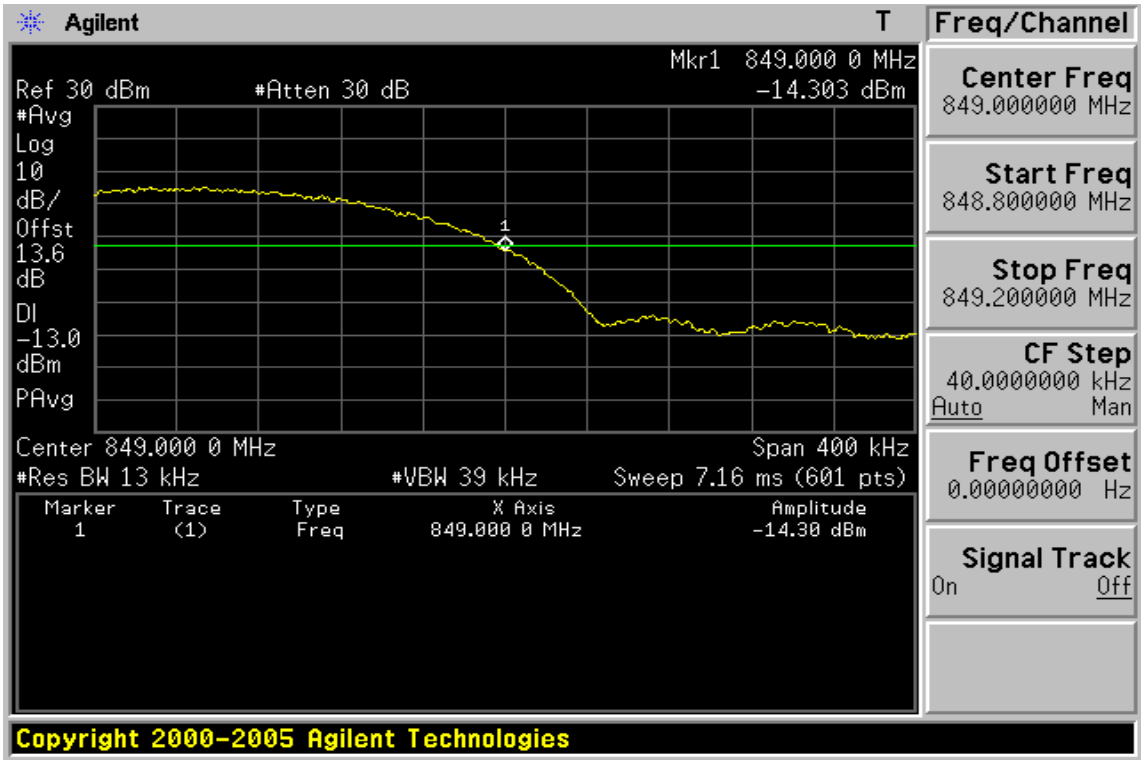


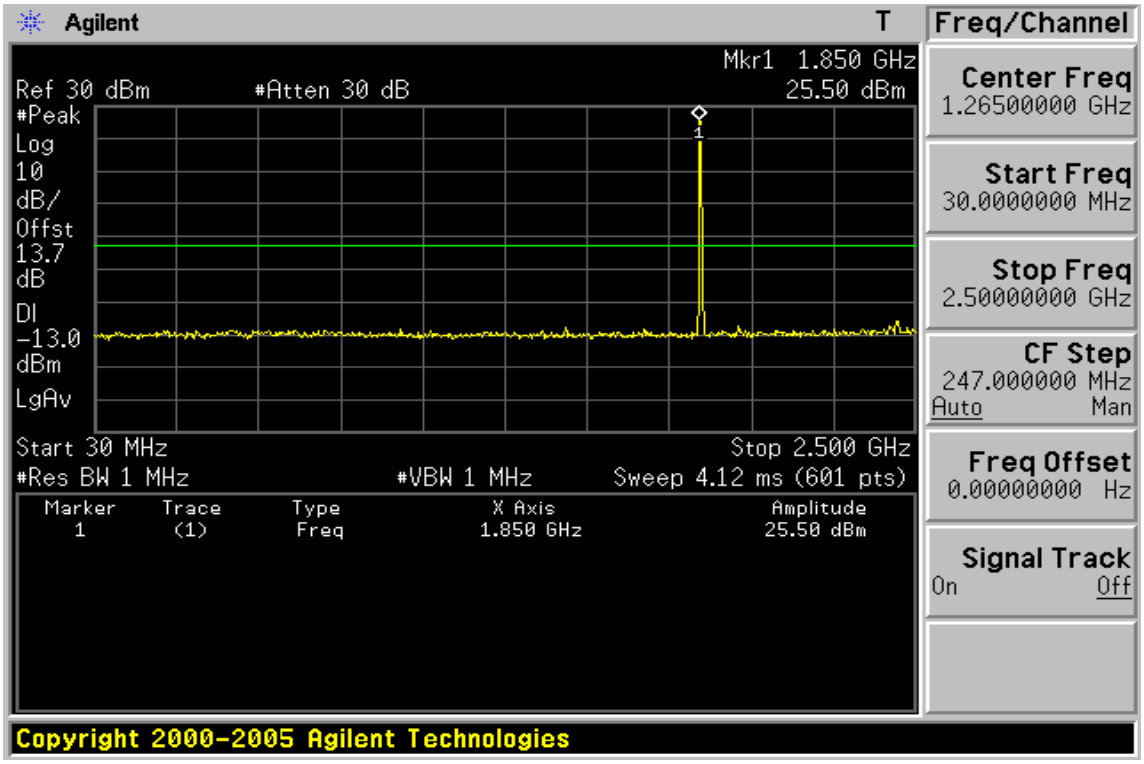
Figure 10-70: Band edge emission at antenna terminals – CDMA 2000 Cellular Channel Highest

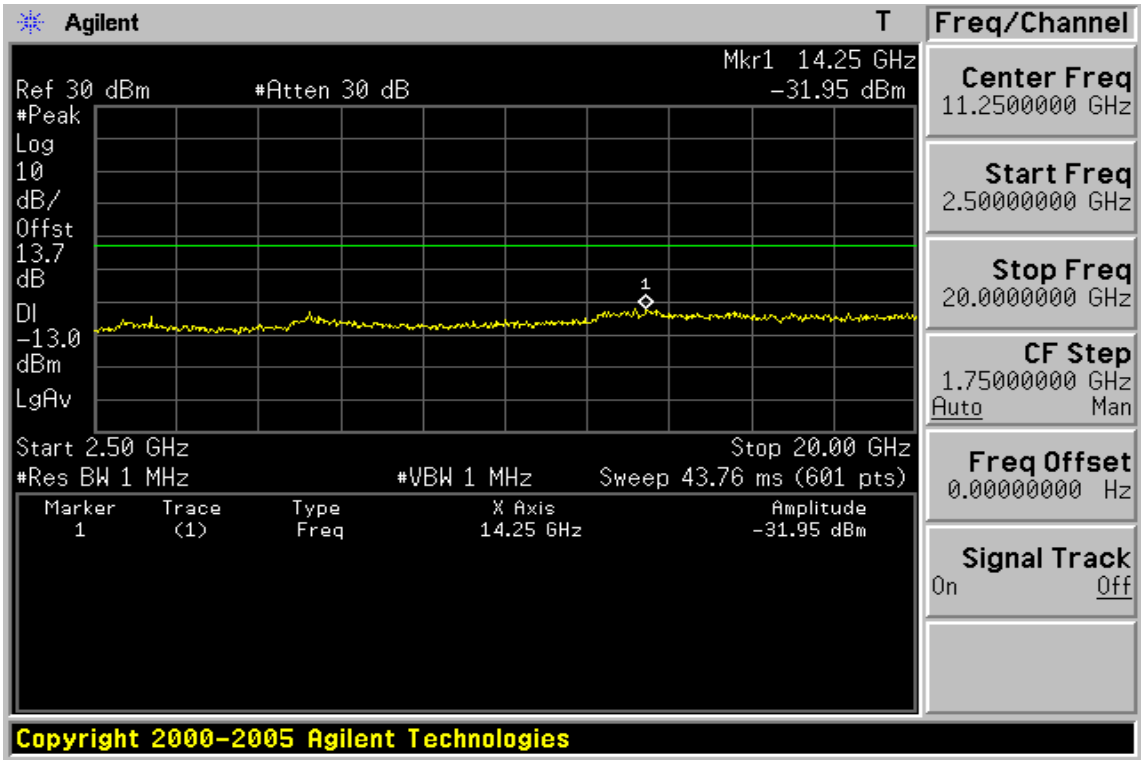


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Figure 10-71: Out of Band emission at antenna terminals – CDMA 2000 PCS Channel Lowest

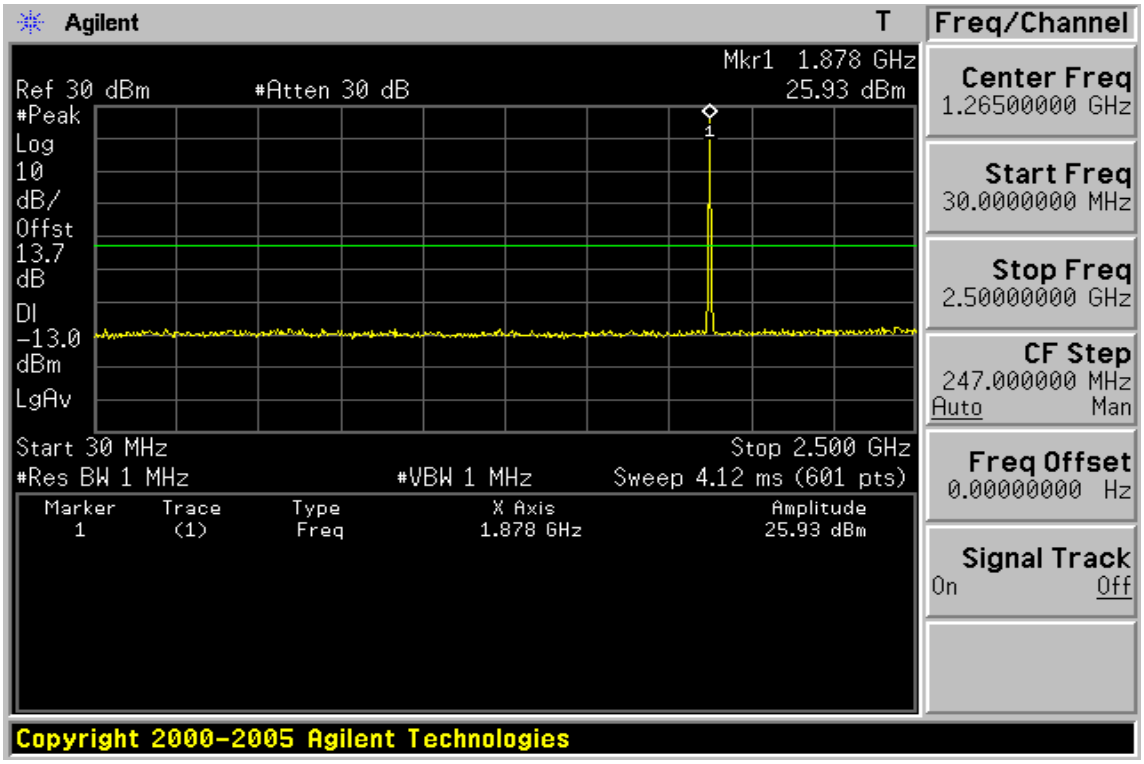


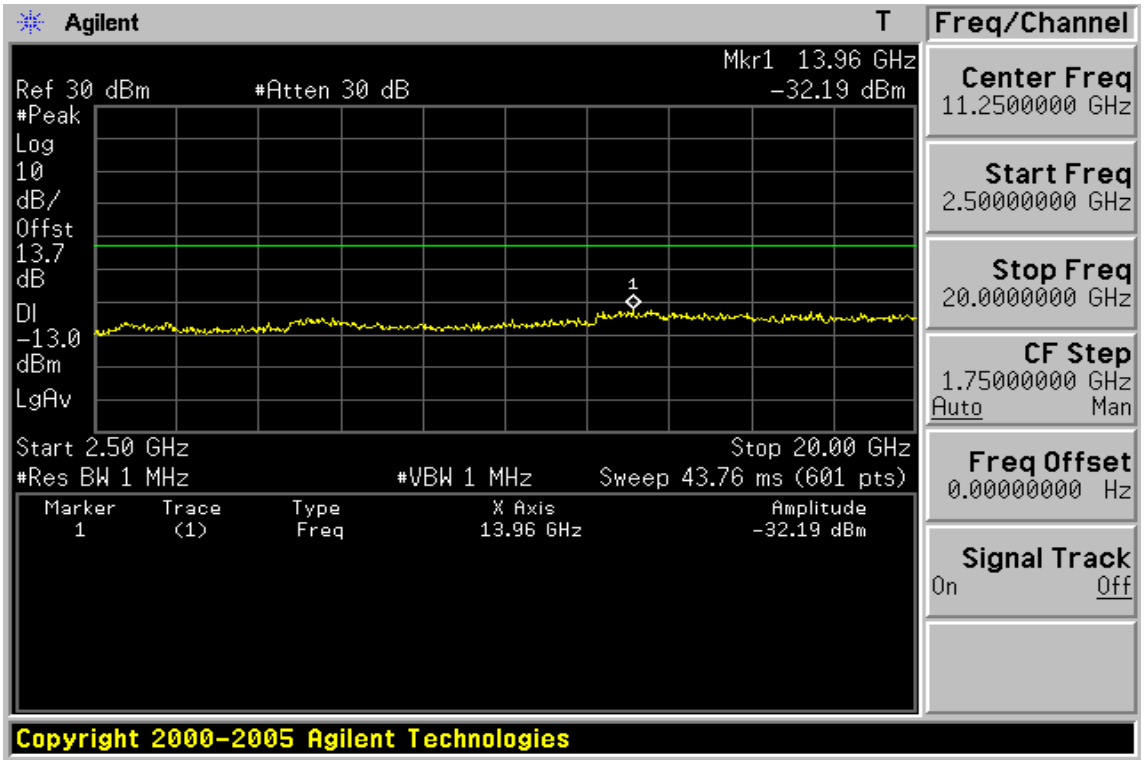


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Figure 10-72: Out of Band emission at antenna terminals – CDMA 2000 PCS Channel Mid

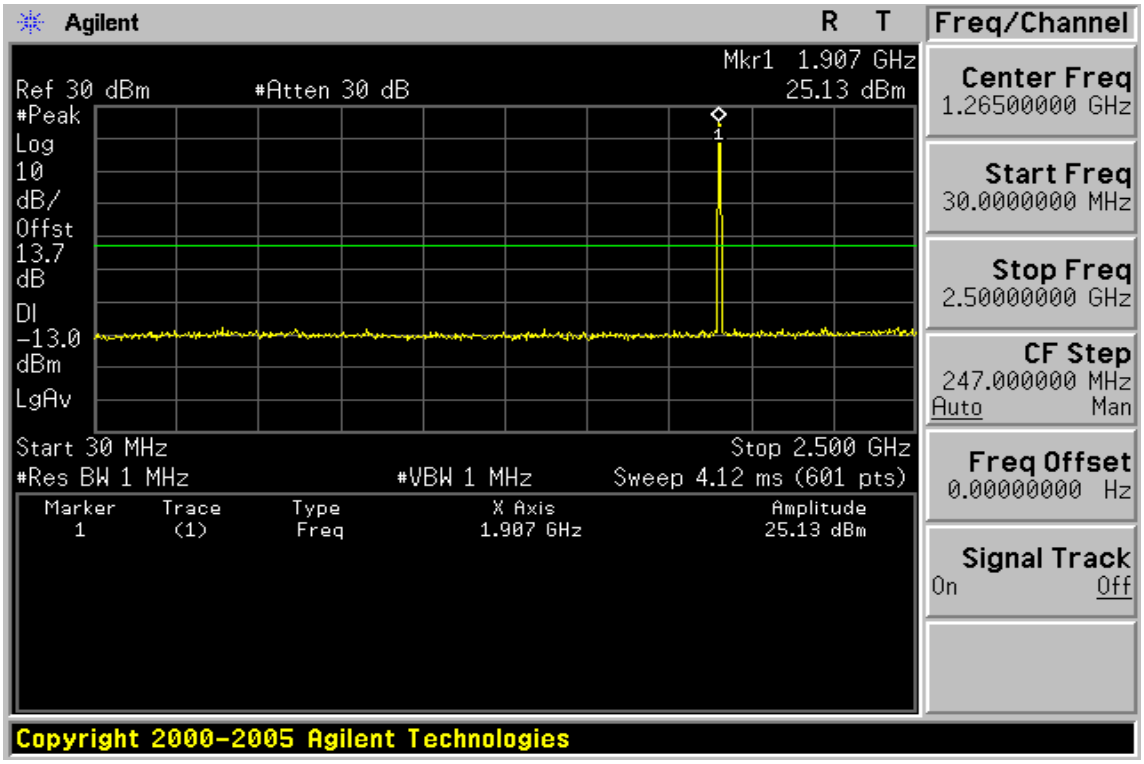


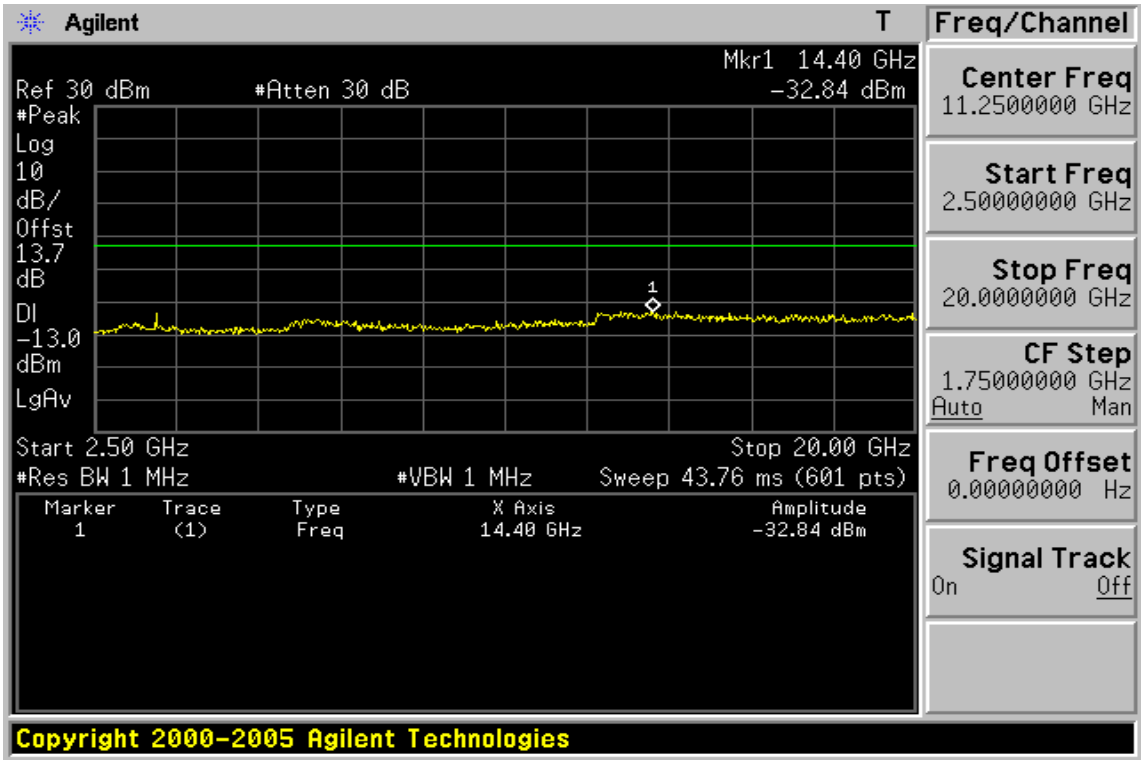


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Figure 10-73: Out of Band emission at antenna terminals – CDMA 2000 PCS Channel Highest





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Figure 10-74: Band edge emission at antenna terminals – CDMA 2000 PCS Channel Lowest

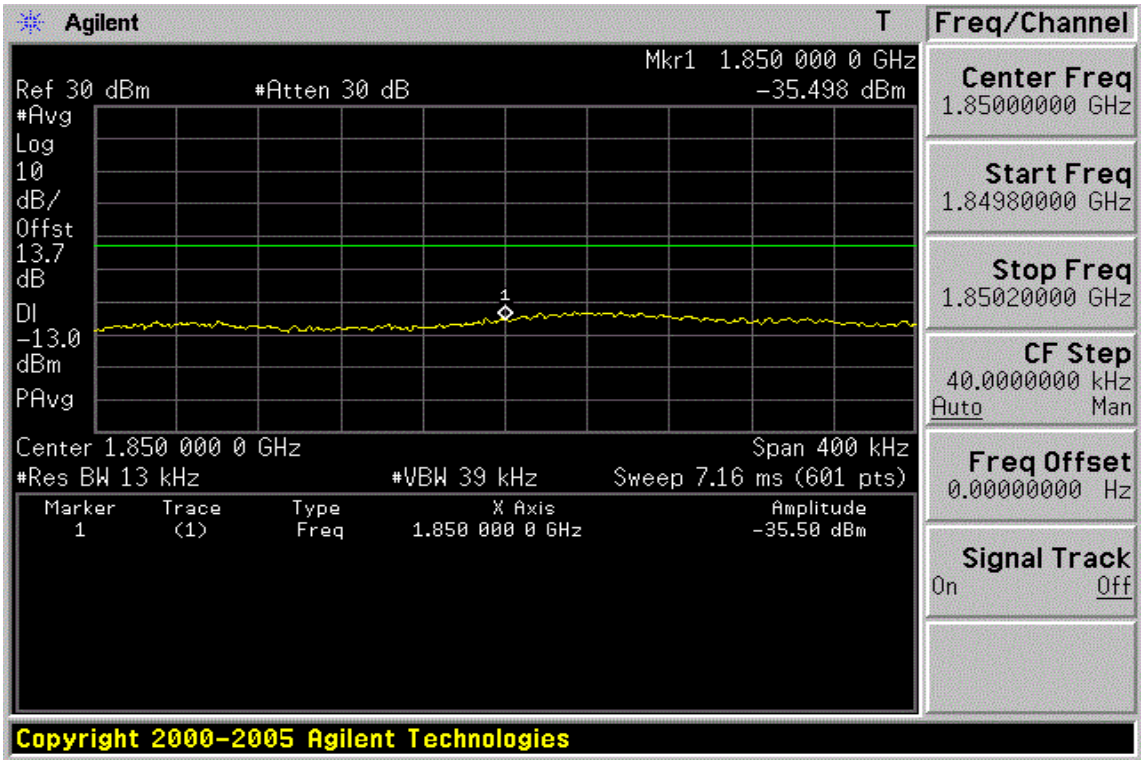
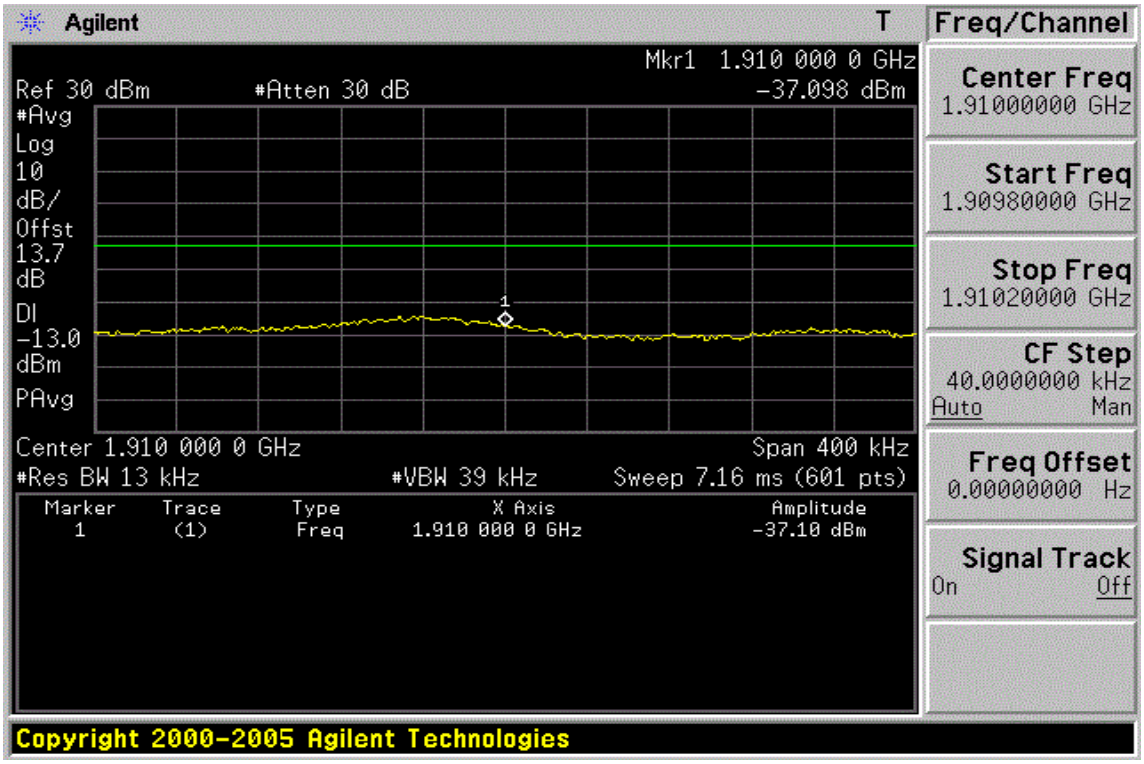


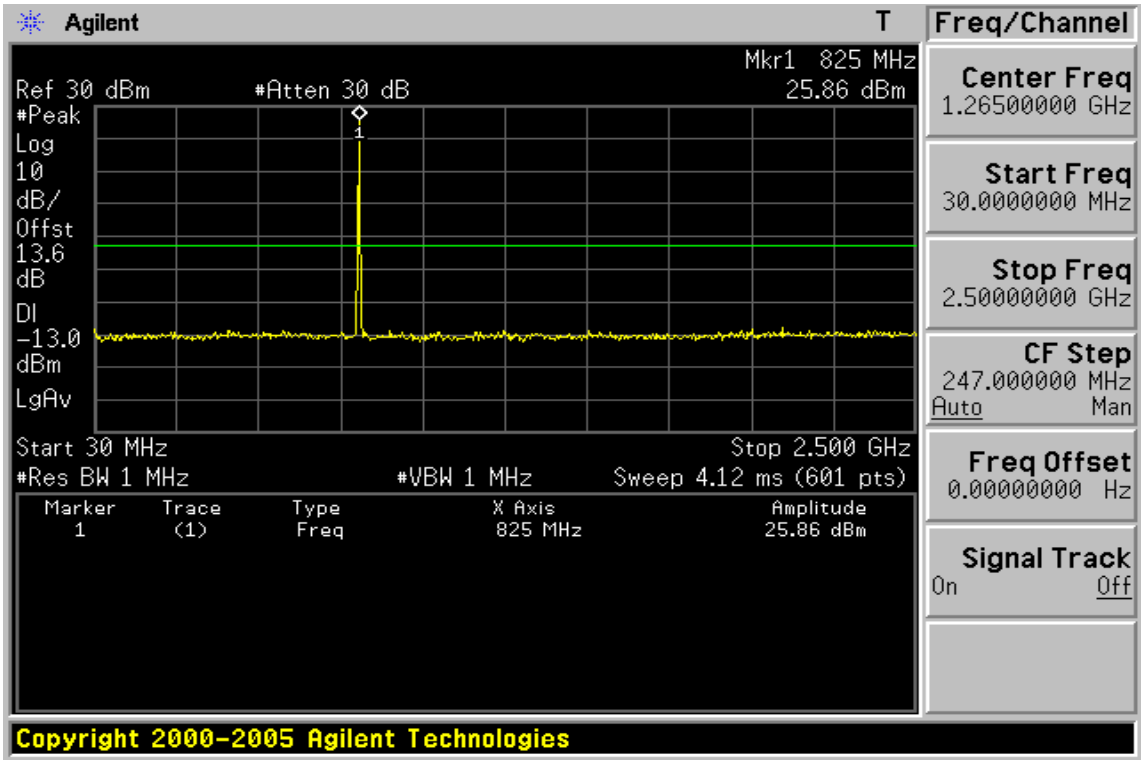
Figure 10-75: Band edge emission at antenna terminals – CDMA 2000 PCS Channel Highest

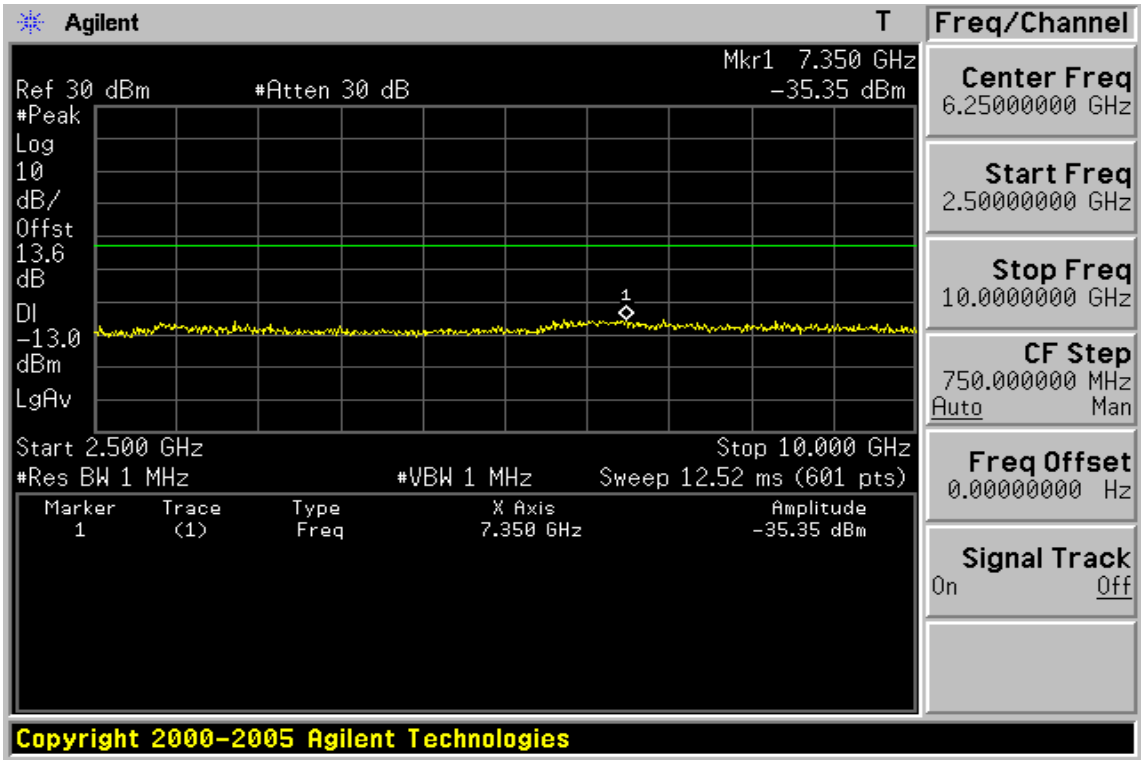


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Figure 10-76: Out of Band emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Lowest

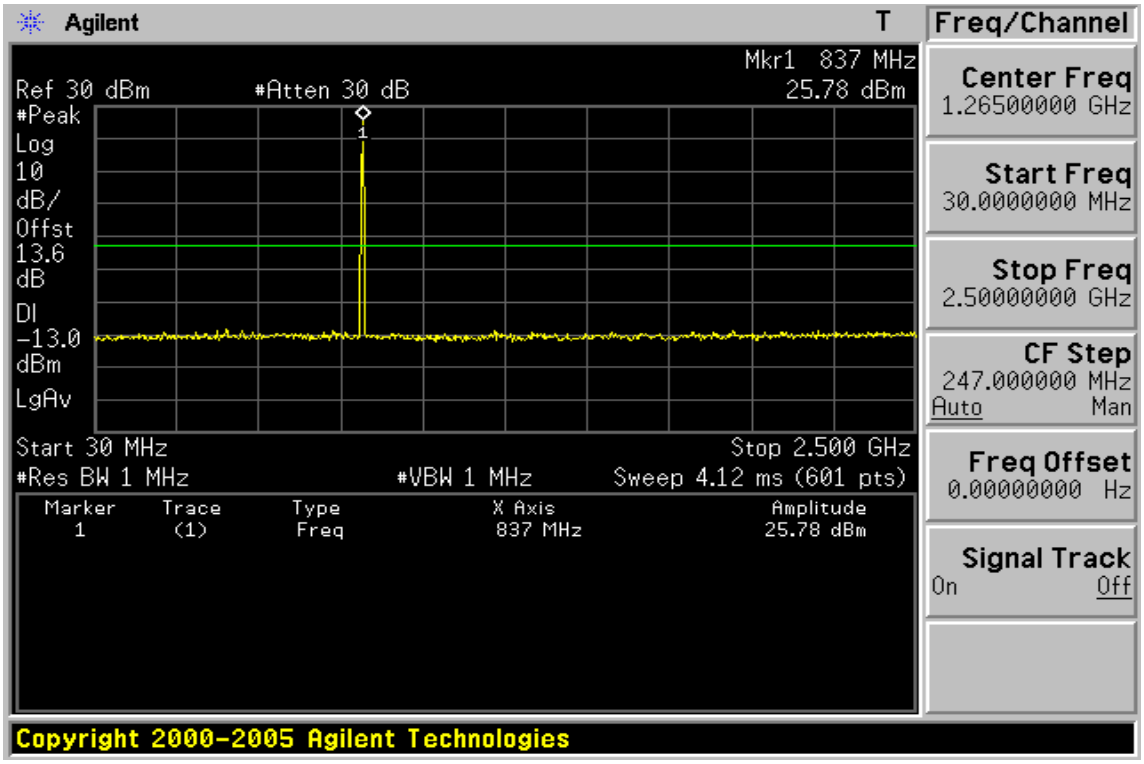


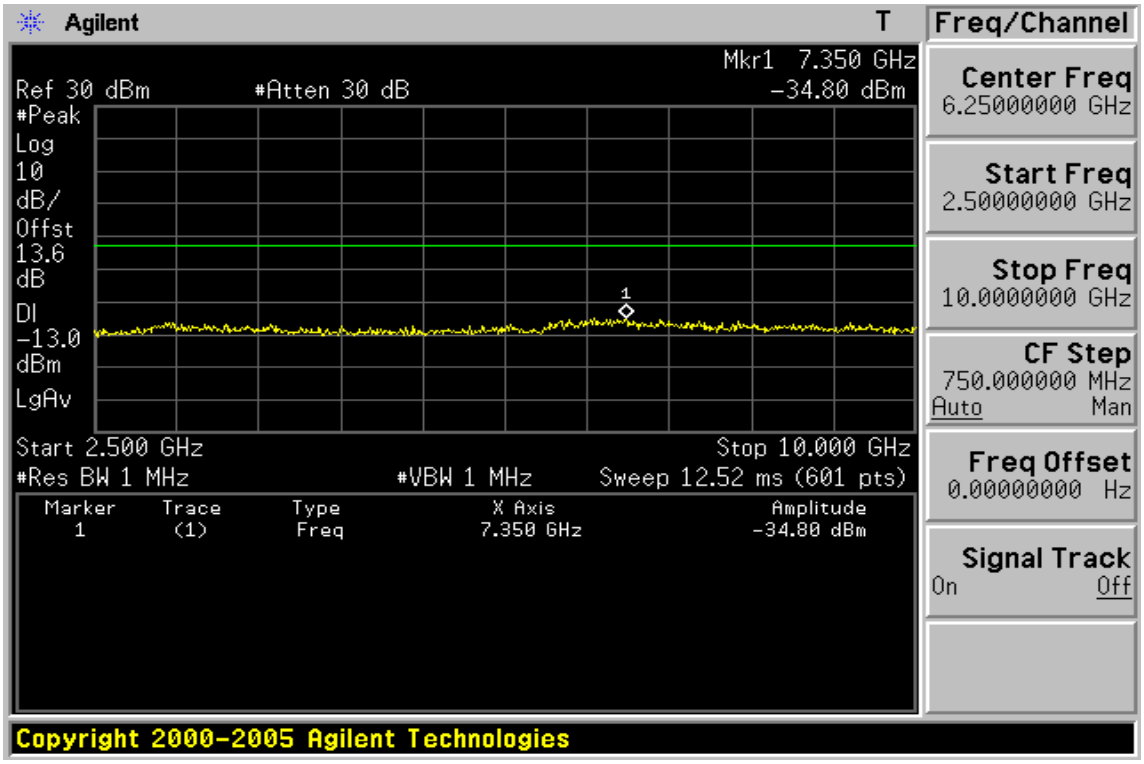


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Figure 10-77: Out of Band emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Mid

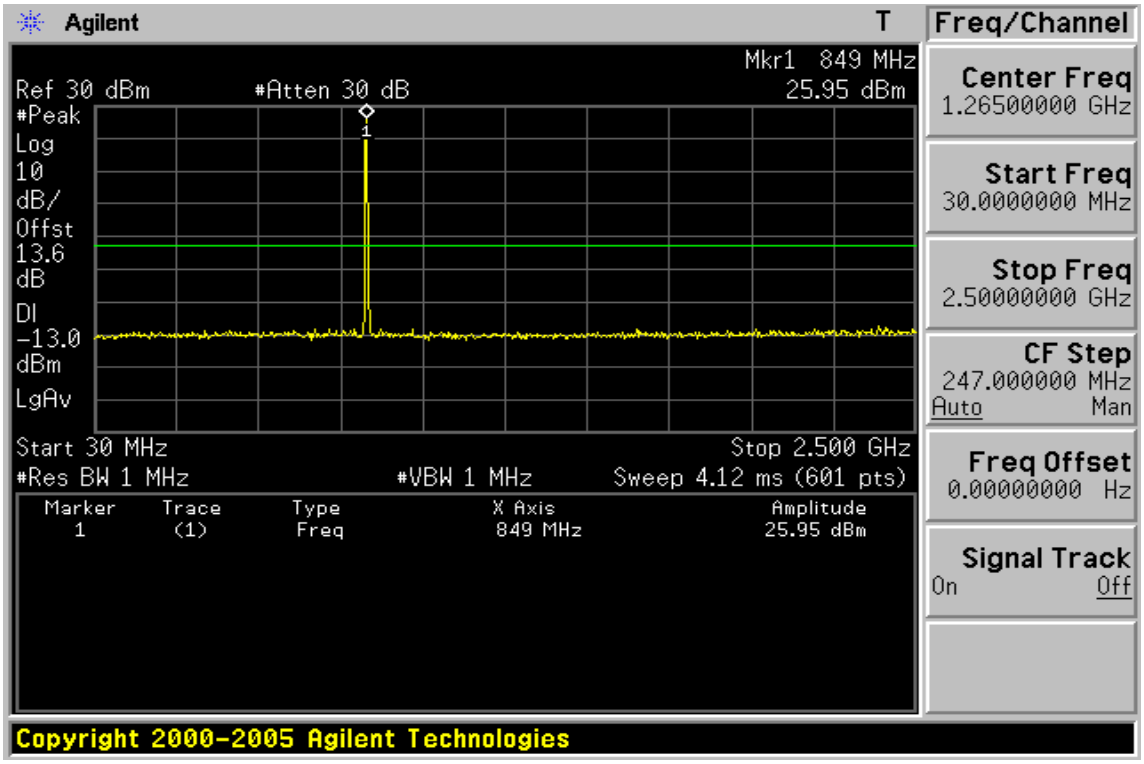


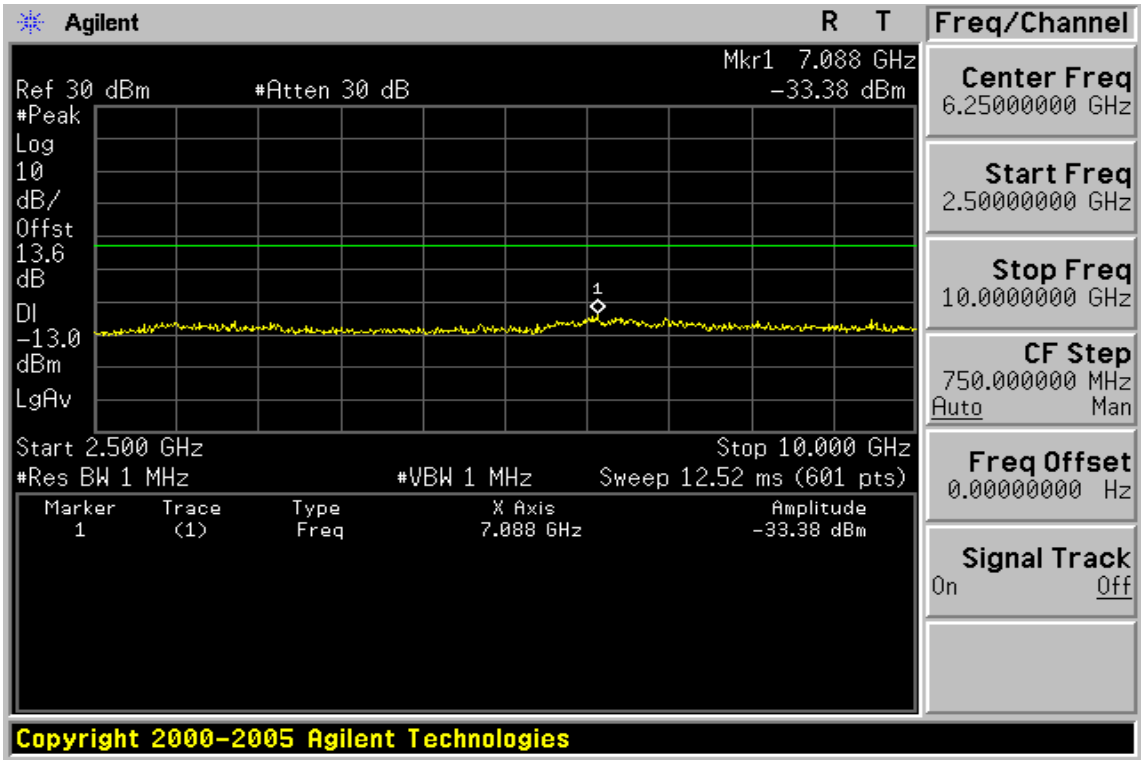


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Figure 10-78: Out of Band emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Highest





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Figure 10-79: Band edge emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Lowest

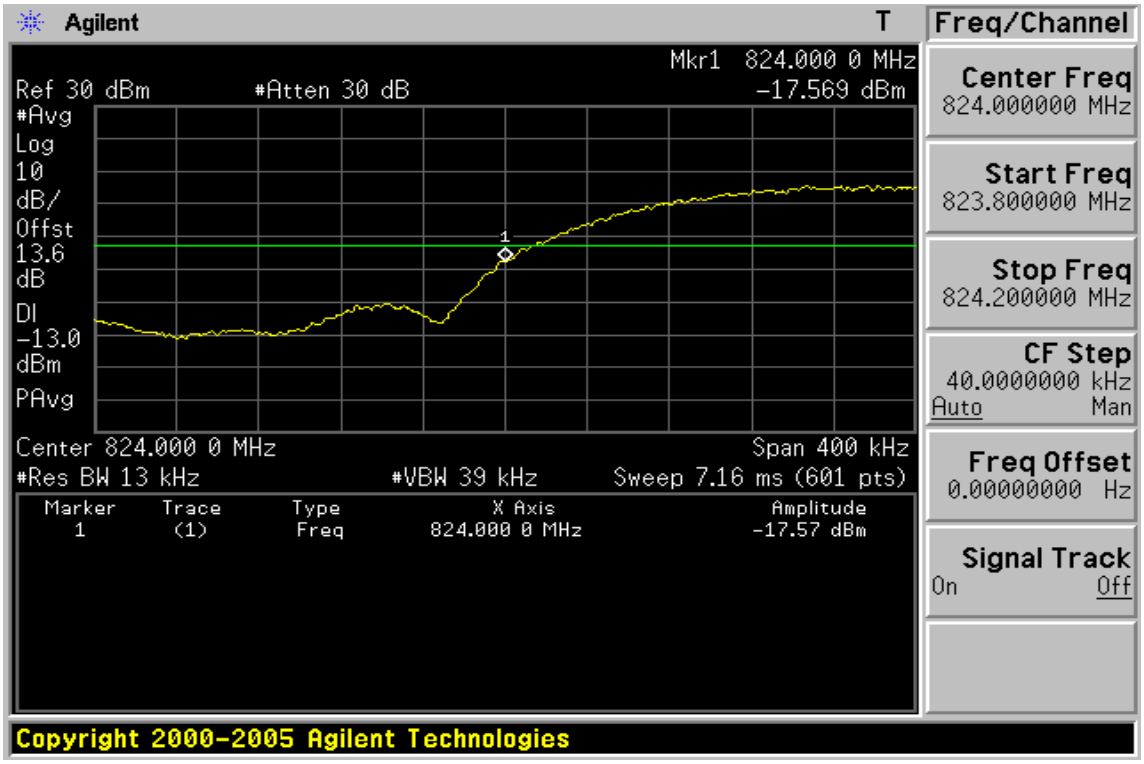
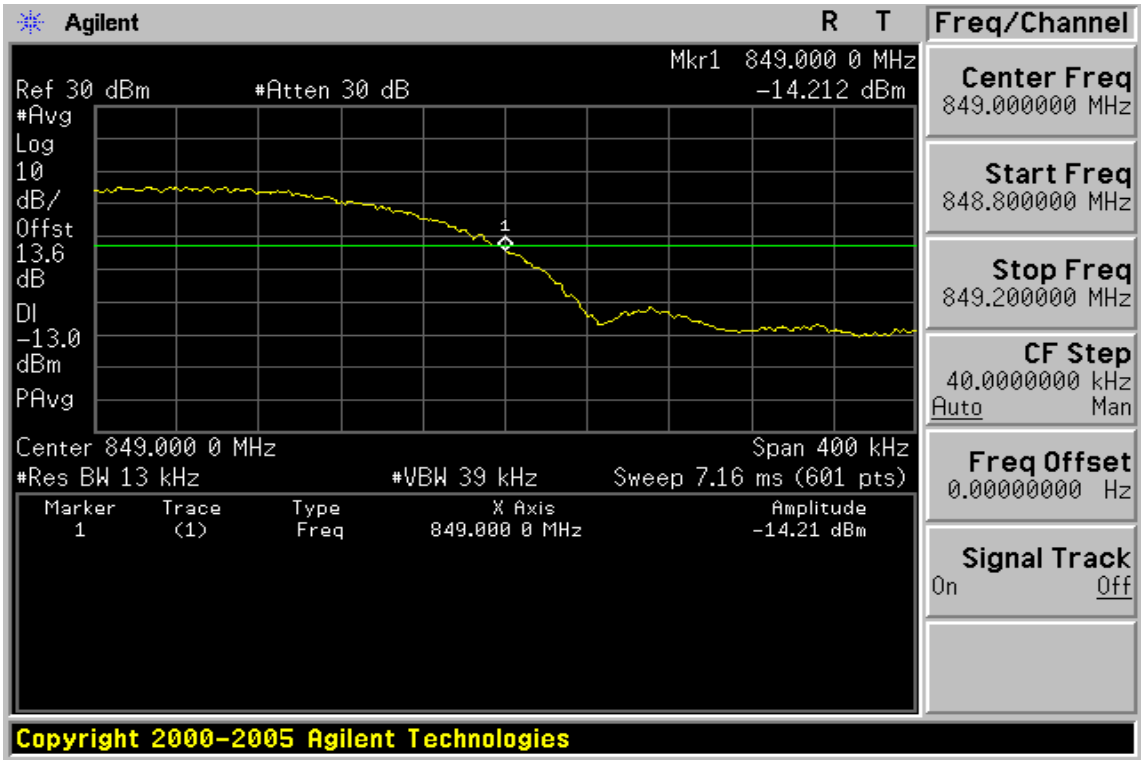


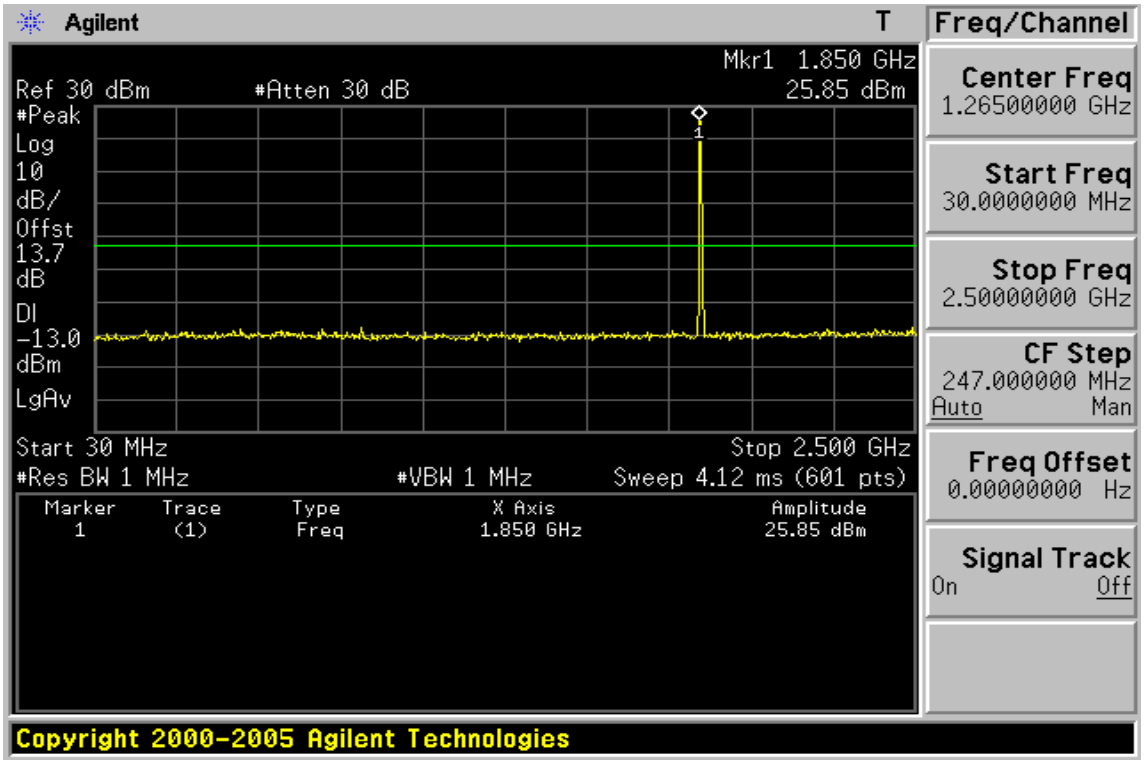
Figure 10-80: Band edge emission at antenna terminals – CDMA 2000 EVDO Cellular Channel Highest

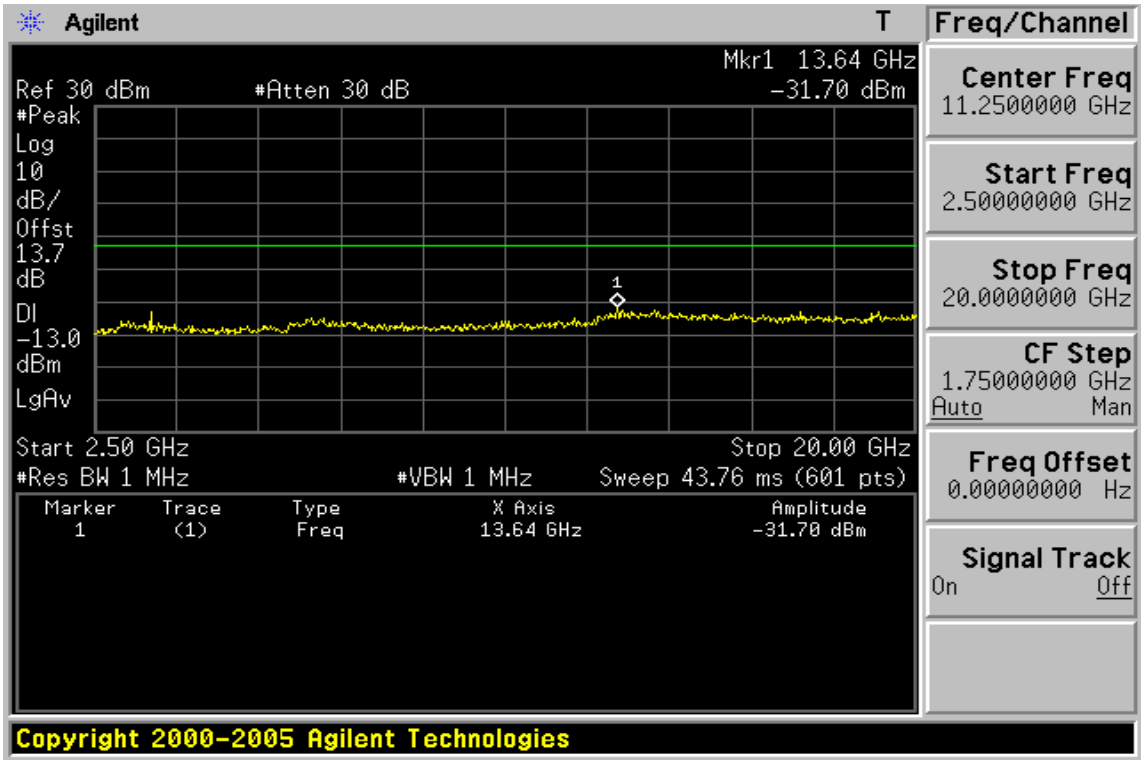


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Figure 10-81: Out of Band emission at antenna terminals – CDMA 2000 EVDO PCS Channel Lowest

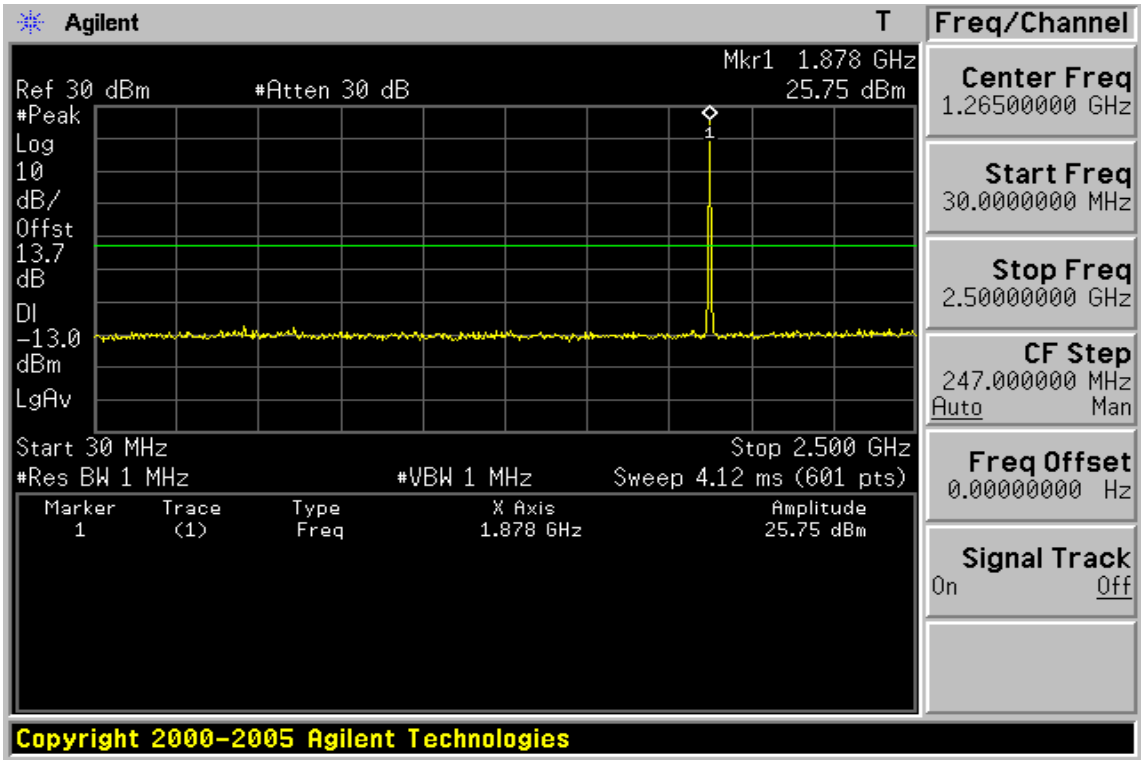


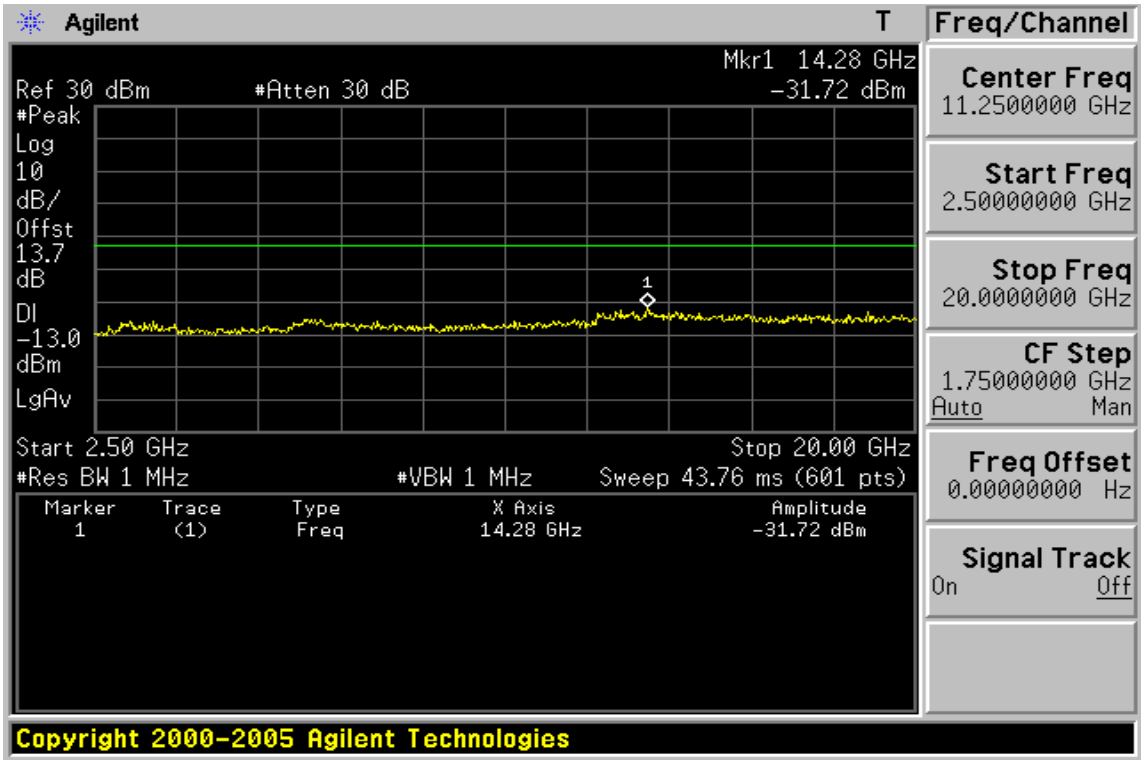


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Figure 10-82: Out of Band emission at antenna terminals – CDMA 2000 EVDO PCS Channel Mid

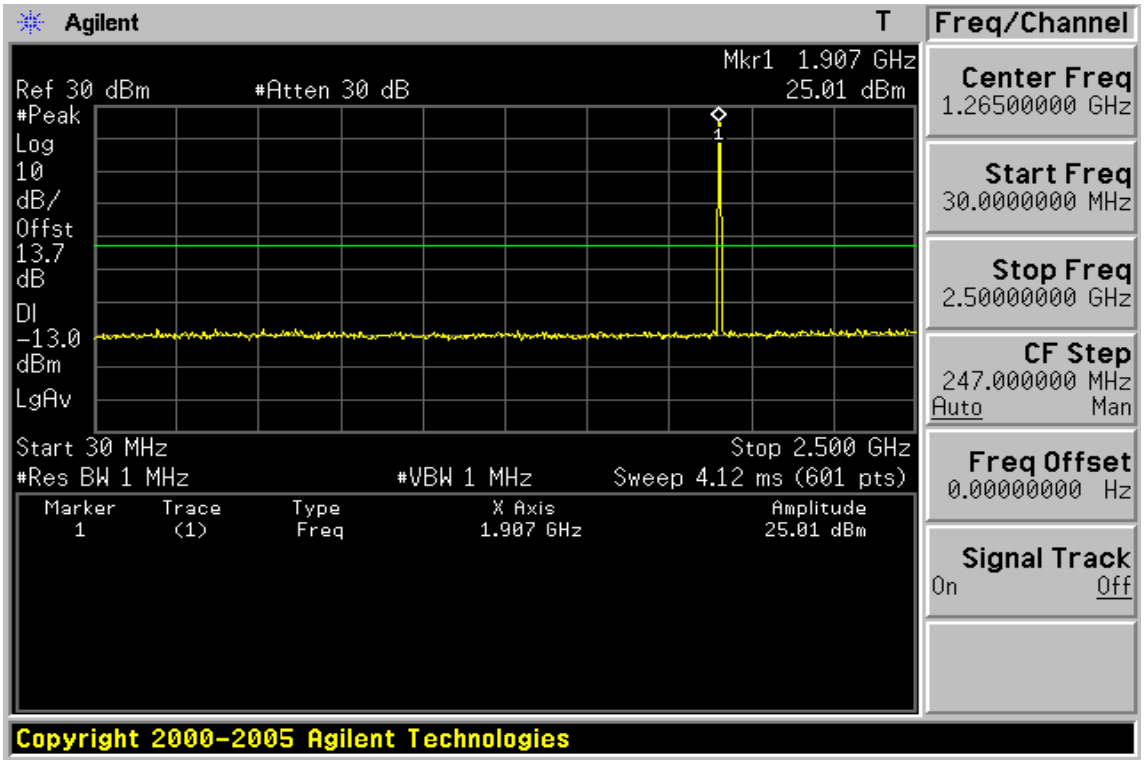


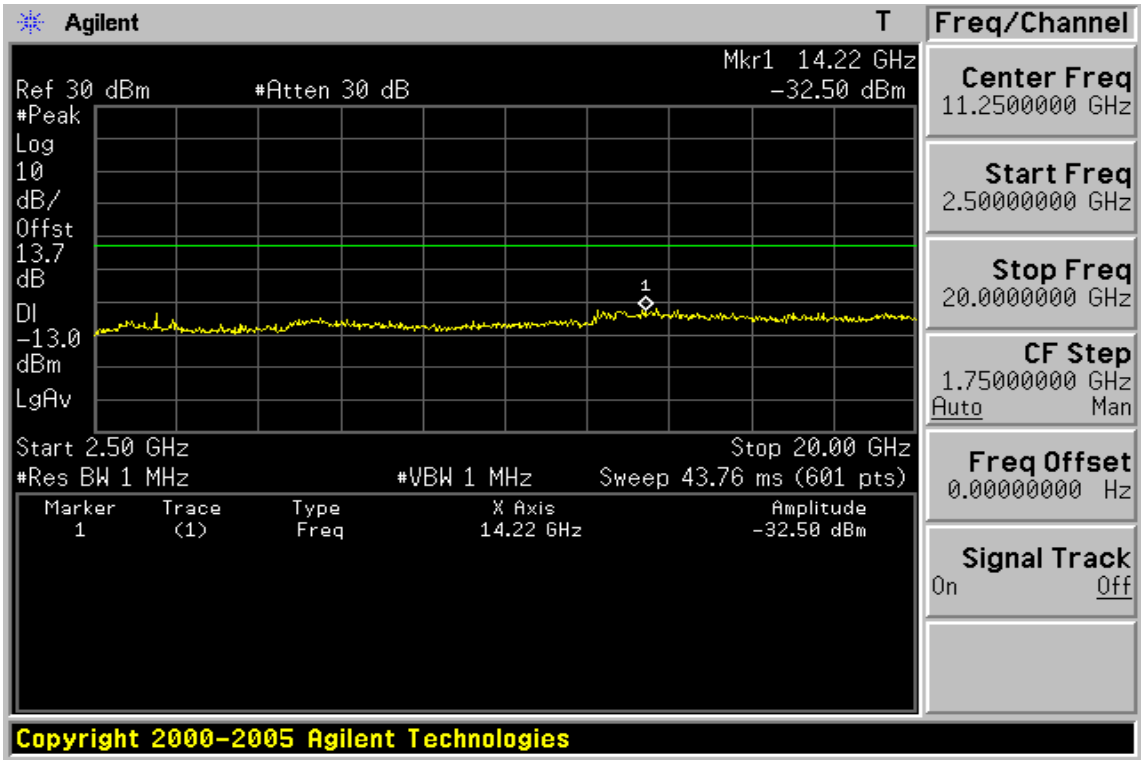


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Figure 10-83: Out of Band emission at antenna terminals – CDMA 2000 EVDO PCS Channel Highest





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Figure 10-84: Band edge emission at antenna terminals – CDMA 2000 EVDO PCS Channel Lowest

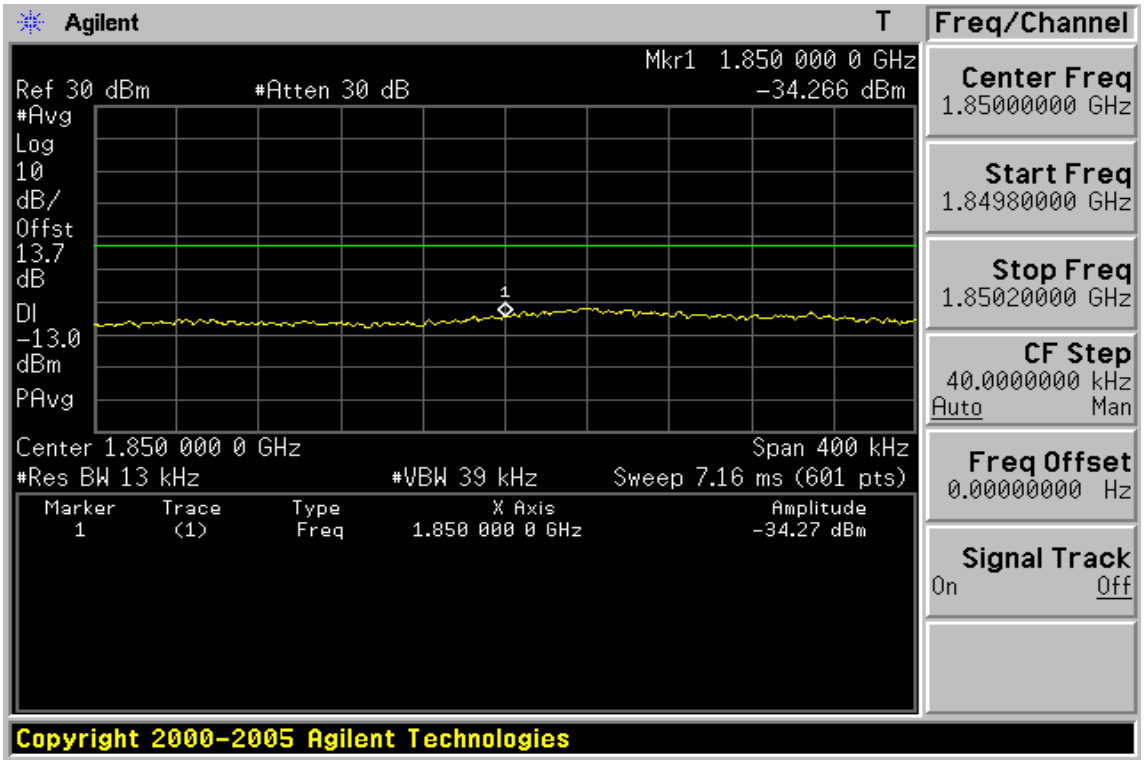
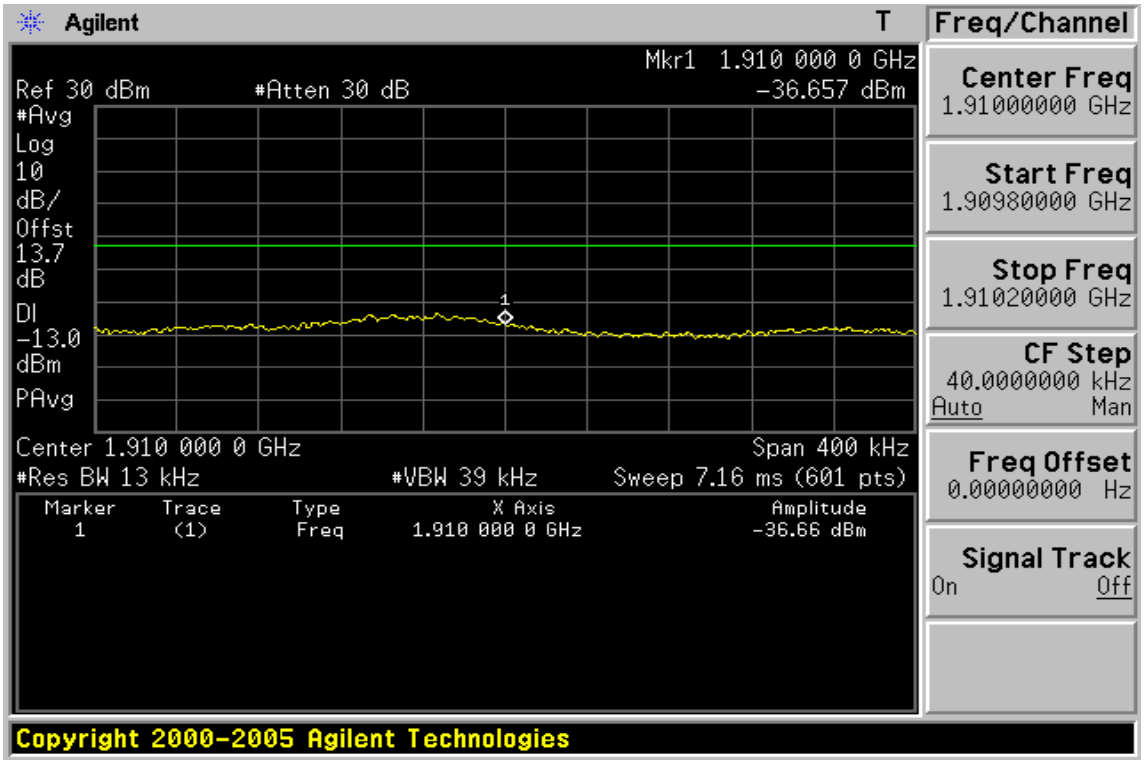


Figure 10-85: Band edge emission at antenna terminals – CDMA 2000 EVDO PCS Channel Highest



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11. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a),§24.238(a) , §27.53(g) 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).

According to RSS-132 §4.5

4.5.1 Out-of-block Emissions

Mobile and base station equipment with emission bandwidth less than or equal to 4 MHz shall comply with 4.5.1.1. Mobile station equipment with emission bandwidth greater than 4 MHz shall comply with 4.5.1.2. Base station equipment with emission bandwidth greater than 4 MHz shall comply with either 4.5.1.2 or 4.5.1.3.

4.5.1.1 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log (P), dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

43 + 10 log (P), dB, in any 100 kHz bandwidth.

4.5.1.2 In the first 1.0 MHz band immediately outside and adjacent to the licensee's frequency block, the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log (P), dB. After the first 1.0 MHz, the power of emissions shall be attenuated below the transmitter output power by at least

43 + 10 log (P), dB, in any 1 MHz bandwidth

According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block. the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log (P) dB.

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According to RSS-133 §6.5

6.5.1 Out-of-Block Emissions

a. Mobile stations must comply with subsection i. below.

In the first 1.0MHz band immediately outside and adjacent to the licensee's frequency block. the power of emissions per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log (P) dB.

b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least 43 + 10 log (P), dB, per any MHz of bandwidth.

(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

According to RSS-139 §6.5

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log10(P), dB.

(ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log10(P), dB.

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b. After the first 1.0 MHz (for equipment that complies with a.i. of this subsection) or 1.5 MHz (for equipment that complies with all of this subsection), the power of emissions shall be attenuated below the transmitter output power by at least 43 + 10 log (P), dB, per any MHz of bandwidth.

(Note: If the test result using 1% of the emission bandwidth is used, then power integration over 1.0 MHz is required; alternatively, the spectrum analyzer resolution and video bandwidths can be increased to 1.0 MHz for this measurement).

6.5.2 Out-of-Sub-band Emissions

Outside the sub-bands 1850-1910 MHz and 1930-1990 MHz, the attenuation shall be equal to or greater than the out-of-block emission limits in Section 6.5.1.

According to RSS-139 §6.5

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log10(P), dB.

(ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in watts) by at least 43 + 10 log10(P), dB.

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11.2. EUT Setup (Block Diagram of Configuration):

Refer to section 8.2 in this report

11.3. Measurement Procedure:

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

11.5. Measurement Result:

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

(First Antenna)

Operation Band	:GPRS 850	Test Date	:2012-10-18
ARFCN	:CH 128	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:824.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
108.57	S	-70.63	-66.85	-1.06	-2.72	-13.00	-57.63
160.95	S	-70.06	-66.70	-0.43	-2.93	-13.00	-57.06
288.02	S	-71.35	-72.65	4.52	-3.22	-13.00	-58.35
335.55	S	-72.42	-73.67	4.69	-3.44	-13.00	-59.42
398.60	S	-73.19	-74.34	4.77	-3.62	-13.00	-60.19
576.11	S	-68.60	-69.02	4.29	-3.87	-13.00	-55.60
1648.40	H	-47.86	-46.49	2.68	-4.05	-13.00	-34.86
2472.60	H	-46.12	-44.61	3.52	-5.03	-13.00	-33.12
3288.00	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2012-10-18
ARFCN	:CH 128	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:824.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
78.50	S	-72.60	-67.40	-2.54	-2.67	-13.00	-59.60
160.95	S	-73.13	-69.77	-0.43	-2.93	-13.00	-60.13
240.49	S	-72.75	-73.92	4.40	-3.23	-13.00	-59.75
288.02	S	-70.59	-71.90	4.52	-3.22	-13.00	-57.59
528.58	S	-74.11	-74.98	4.64	-3.77	-13.00	-61.11
576.11	S	-71.13	-71.55	4.29	-3.87	-13.00	-58.13
1648.40	H	-50.84	-49.46	2.68	-4.05	-13.00	-37.84
2472.60	H	-50.68	-49.17	3.52	-5.03	-13.00	-37.68
3288.00	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2012-10-18
ARFCN	:CH 190	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-71.57	-55.33	-13.77	-2.47	-13.00	-58.57
109.54	S	-71.46	-67.67	-1.07	-2.72	-13.00	-58.46
161.92	S	-72.31	-69.10	-0.29	-2.93	-13.00	-59.31
335.55	S	-73.69	-74.94	4.69	-3.44	-13.00	-60.69
398.60	S	-73.50	-74.65	4.77	-3.62	-13.00	-60.50
577.08	S	-71.36	-71.76	4.28	-3.87	-13.00	-58.36
1673.20	H	-52.83	-51.08	2.33	-4.08	-13.00	-39.83
2509.80	H	-46.74	-44.86	3.19	-5.07	-13.00	-33.74
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2012-10-18
ARFCN	:CH 190	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
78.50	S	-70.32	-65.12	-2.54	-2.67	-13.00	-57.32
159.98	S	-71.84	-68.33	-0.57	-2.93	-13.00	-58.84
270.56	S	-69.01	-70.28	4.55	-3.27	-13.00	-56.01
552.83	S	-73.70	-74.39	4.55	-3.85	-13.00	-60.70
576.11	S	-70.88	-71.29	4.29	-3.87	-13.00	-57.88
672.14	S	-75.09	-75.12	4.13	-4.10	-13.00	-62.09
1673.20	H	-55.44	-52.76	2.66	-5.34	-13.00	-42.44
2509.80	H	-53.25	-50.68	3.56	-6.13	-13.00	-40.25
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2012-10-18
ARFCN	:CH 251	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:848.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
108.57	S	-70.89	-67.11	-1.06	-2.72	-13.00	-57.89
160.95	S	-70.67	-67.31	-0.43	-2.93	-13.00	-57.67
288.02	S	-70.76	-72.07	4.52	-3.22	-13.00	-57.76
335.55	S	-73.15	-74.40	4.69	-3.44	-13.00	-60.15
399.57	S	-73.51	-74.66	4.78	-3.62	-13.00	-60.51
576.11	S	-68.30	-68.71	4.29	-3.87	-13.00	-55.30
1697.60	H	-53.27	-51.43	2.28	-4.12	-13.00	-40.27
2546.40	H	-50.70	-48.89	3.30	-5.11	-13.00	-37.70
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2012-10-18
ARFCN	:CH 251	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:848.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
78.50	S	-72.20	-67.00	-2.54	-2.67	-13.00	-59.20
171.62	S	-73.20	-71.39	1.12	-2.93	-13.00	-60.20
240.49	S	-72.11	-73.29	4.40	-3.23	-13.00	-59.11
288.02	S	-70.27	-71.58	4.52	-3.22	-13.00	-57.27
552.83	S	-73.64	-74.34	4.55	-3.85	-13.00	-60.64
576.11	S	-71.23	-71.64	4.29	-3.87	-13.00	-58.23
1697.60	H	-55.37	-53.90	2.65	-4.12	-13.00	-42.37
2546.40	H	-54.15	-52.70	3.65	-5.11	-13.00	-41.15
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Band	:EDGE 1900	Test Date	:2012-10-18
ARFCN	:CH 512	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-68.33	-66.72	1.10	-2.72	-13.00	-55.33
179.38	S	-67.62	-69.18	4.49	-2.93	-13.00	-54.62
288.99	S	-68.31	-71.77	6.68	-3.22	-13.00	-55.31
577.08	S	-67.86	-70.41	6.43	-3.87	-13.00	-54.86
966.05	S	-66.50	-67.95	5.90	-4.45	-13.00	-53.50
995.15	S	-61.17	-62.80	6.12	-4.49	-13.00	-48.17
3700.40	H	-55.06	-55.48	7.40	-6.98	-13.00	-42.06
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2012-10-18
ARFCN	:CH 512	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
71.71	S	-69.69	-64.15	-2.95	-2.59	-13.00	-56.69
172.59	S	-70.75	-71.24	3.43	-2.93	-13.00	-57.75
292.87	S	-66.56	-70.04	6.73	-3.25	-13.00	-53.56
436.43	S	-65.83	-68.81	6.68	-3.70	-13.00	-52.83
577.08	S	-65.38	-67.93	6.43	-3.87	-13.00	-52.38
940.83	S	-65.30	-66.58	5.78	-4.51	-13.00	-52.30
3700.40	H	-58.24	-58.17	6.91	-6.98	-13.00	-45.24
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:EDGE 1900	Test Date	:2012-10-18
ARFCN	:CH 661	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
38.73	S	-68.92	-55.07	-11.38	-2.47	-13.00	-55.92
159.01	S	-66.94	-65.54	1.53	-2.93	-13.00	-53.94
436.43	S	-64.75	-67.73	6.68	-3.70	-13.00	-51.75
577.08	S	-70.31	-72.87	6.43	-3.87	-13.00	-57.31
940.83	S	-63.66	-64.94	5.78	-4.51	-13.00	-50.66
995.15	S	-63.58	-65.21	6.12	-4.49	-13.00	-50.58
3760.00	H	-52.23	-52.53	7.42	-7.12	-13.00	-39.23
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2012-10-18
ARFCN	:CH 661	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
94.99	S	-71.33	-69.70	1.09	-2.72	-13.00	-58.33
180.35	S	-70.81	-72.51	4.63	-2.93	-13.00	-57.81
288.99	S	-68.73	-72.20	6.68	-3.22	-13.00	-55.73
552.83	S	-69.14	-71.99	6.70	-3.85	-13.00	-56.14
577.08	S	-64.95	-67.51	6.43	-3.87	-13.00	-51.95
940.83	S	-64.69	-65.97	5.78	-4.51	-13.00	-51.69
3760.00	H	-54.62	-54.35	6.85	-7.12	-13.00	-41.62
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2012-10-18
ARFCN	:CH 810	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
94.99	S	-65.43	-63.80	1.09	-2.72	-13.00	-52.43
190.05	S	-66.14	-68.86	5.81	-3.09	-13.00	-53.14
288.99	S	-68.65	-72.12	6.68	-3.22	-13.00	-55.65
577.08	S	-68.24	-70.79	6.43	-3.87	-13.00	-55.24
940.83	S	-62.75	-64.03	5.78	-4.51	-13.00	-49.75
995.15	S	-60.80	-62.43	6.12	-4.49	-13.00	-47.80
3819.60	H	-54.57	-54.89	7.51	-7.20	-13.00	-41.57
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2012-10-18
ARFCN	:CH 810	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-71.55	-69.93	1.10	-2.72	-13.00	-58.55
173.56	S	-70.77	-71.42	3.58	-2.93	-13.00	-57.77
298.69	S	-66.89	-70.44	6.80	-3.25	-13.00	-53.89
552.83	S	-69.55	-72.39	6.70	-3.85	-13.00	-56.55
577.08	S	-65.72	-68.27	6.43	-3.87	-13.00	-52.72
940.83	S	-64.83	-66.10	5.78	-4.51	-13.00	-51.83
3819.60	H	-59.24	-59.09	7.05	-7.20	-13.00	-46.24
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band	:HSUPA B2	Test Date	:2012-10-18
ARFCN	:CH 9262	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
135.73	S	-67.90	-66.19	1.07	-2.79	-13.00	-54.90
185.20	S	-64.13	-66.27	5.23	-3.09	-13.00	-51.13
288.99	S	-68.25	-71.72	6.68	-3.22	-13.00	-55.25
335.55	S	-72.34	-75.75	6.84	-3.44	-13.00	-59.34
577.08	S	-67.99	-70.55	6.43	-3.87	-13.00	-54.99
940.83	S	-61.58	-62.86	5.78	-4.51	-13.00	-48.58
3704.80	H	-48.68	-49.10	7.40	-6.98	-13.00	-35.68
5557.20	H	-51.17	-51.79	8.99	-8.37	-13.00	-38.17
7409.60	H	-50.67	-51.61	10.30	-9.36	-13.00	-37.67
9252.00	H	-44.82	-46.06	11.70	-10.46	-13.00	-31.82
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2012-10-18
ARFCN	:CH 9262	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-70.03	-68.42	1.10	-2.72	-13.00	-57.03
141.55	S	-68.20	-66.26	0.85	-2.79	-13.00	-55.20
288.99	S	-68.91	-72.37	6.68	-3.22	-13.00	-55.91
552.83	S	-69.58	-72.43	6.70	-3.85	-13.00	-56.58
577.08	S	-65.84	-68.39	6.43	-3.87	-13.00	-52.84
940.83	S	-64.31	-65.59	5.78	-4.51	-13.00	-51.31
3704.80	H	-54.94	-54.78	6.90	-7.06	-13.00	-41.94
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2012-10-18
ARFCN	:CH 9400	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-69.02	-55.17	-11.38	-2.47	-13.00	-56.02
106.63	S	-69.74	-68.12	1.11	-2.72	-13.00	-56.74
201.69	S	-71.70	-75.46	6.89	-3.14	-13.00	-58.70
288.99	S	-71.77	-75.24	6.68	-3.22	-13.00	-58.77
577.08	S	-71.57	-74.12	6.43	-3.87	-13.00	-58.57
894.27	S	-56.75	-58.25	5.84	-4.34	-13.00	-43.75
3760.00	H	-51.83	-52.14	7.42	-7.12	-13.00	-38.83
5640.00	H	-49.27	-50.01	9.01	-8.26	-13.00	-36.27
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2012-10-18
ARFCN	:CH 9400	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
93.05	S	-70.35	-68.69	1.06	-2.72	-13.00	-57.35
174.53	S	-70.92	-71.72	3.74	-2.93	-13.00	-57.92
297.72	S	-67.45	-70.99	6.79	-3.25	-13.00	-54.45
552.83	S	-69.04	-71.89	6.70	-3.85	-13.00	-56.04
577.08	S	-65.75	-68.31	6.43	-3.87	-13.00	-52.75
940.83	S	-65.10	-66.37	5.78	-4.51	-13.00	-52.10
3760.00	H	-56.33	-56.06	6.85	-7.12	-13.00	-43.33
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2012-10-18
ARFCN	:CH 9538	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-68.57	-66.96	1.10	-2.72	-13.00	-55.57
154.16	S	-69.42	-67.76	1.27	-2.93	-13.00	-56.42
288.99	S	-68.23	-71.70	6.68	-3.22	-13.00	-55.23
577.08	S	-67.86	-70.41	6.43	-3.87	-13.00	-54.86
940.83	S	-63.29	-64.57	5.78	-4.51	-13.00	-50.29
995.15	S	-60.60	-62.23	6.12	-4.49	-13.00	-47.60
3815.20	H	-50.64	-51.02	7.50	-7.12	-13.00	-37.64
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2012-10-18
ARFCN	:CH 9538	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-69.61	-67.99	1.10	-2.72	-13.00	-56.61
270.56	S	-68.65	-72.08	6.70	-3.27	-13.00	-55.65
288.99	S	-68.71	-72.18	6.68	-3.22	-13.00	-55.71
577.08	S	-65.76	-68.31	6.43	-3.87	-13.00	-52.76
914.64	S	-63.94	-65.31	5.79	-4.42	-13.00	-50.94
940.83	S	-63.97	-65.24	5.78	-4.51	-13.00	-50.97
3815.20	H	-55.16	-55.00	7.03	-7.20	-13.00	-42.16
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA IV Mode

Operation Band	:HSUPA B4	Test Date	:2012-10-19
ARFCN	:CH 1312	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
156.10	S	-62.72	-61.16	1.37	-2.93	-13.00	-49.72
288.99	S	-68.20	-71.66	6.68	-3.22	-13.00	-55.20
398.60	S	-71.39	-74.69	6.92	-3.62	-13.00	-58.39
577.08	S	-68.19	-70.75	6.43	-3.87	-13.00	-55.19
871.96	S	-62.18	-63.84	6.01	-4.36	-13.00	-49.18
940.83	S	-61.73	-63.00	5.78	-4.51	-13.00	-48.73
3424.80	H	-54.90	-55.21	7.20	-6.89	-13.00	-41.90
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2012-10-19
ARFCN	:CH 1312	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
239.52	S	-72.31	-75.64	6.55	-3.23	-13.00	-59.31
288.99	S	-68.98	-72.44	6.68	-3.22	-13.00	-55.98
399.57	S	-72.53	-75.84	6.93	-3.62	-13.00	-59.53
577.08	S	-65.89	-68.45	6.43	-3.87	-13.00	-52.89
870.99	S	-62.08	-63.74	6.02	-4.36	-13.00	-49.08
940.83	S	-65.28	-66.55	5.78	-4.51	-13.00	-52.28
3424.80	H	-57.97	-58.23	7.15	-6.89	-13.00	-44.97
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2012-10-19
ARFCN	:CH 1413	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-63.91	-50.06	-11.38	-2.47	-13.00	-50.91
96.93	S	-68.38	-66.78	1.12	-2.72	-13.00	-55.38
288.99	S	-71.81	-75.27	6.68	-3.22	-13.00	-58.81
399.57	S	-72.88	-76.18	6.93	-3.62	-13.00	-59.88
872.93	S	-64.23	-65.88	6.00	-4.36	-13.00	-51.23
940.83	S	-63.85	-65.13	5.78	-4.51	-13.00	-50.85
3465.20	H	-53.82	-54.14	7.31	-6.99	-13.00	-40.82
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2012-10-19
ARFCN	:CH 1413	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
137.67	S	-67.22	-65.38	0.95	-2.79	-13.00	-54.22
240.49	S	-71.84	-75.16	6.55	-3.23	-13.00	-58.84
288.99	S	-68.58	-72.05	6.68	-3.22	-13.00	-55.58
577.08	S	-65.18	-67.74	6.43	-3.87	-13.00	-52.18
870.99	S	-63.14	-64.80	6.02	-4.36	-13.00	-50.14
940.83	S	-64.41	-65.68	5.78	-4.51	-13.00	-51.41
3465.20	H	-55.18	-55.43	7.24	-6.99	-13.00	-42.18
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2012-10-19
ARFCN	:CH 1513	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
186.17	S	-65.28	-67.53	5.34	-3.09	-13.00	-52.28
288.99	S	-68.62	-72.09	6.68	-3.22	-13.00	-55.62
398.60	S	-73.33	-76.63	6.92	-3.62	-13.00	-60.33
577.08	S	-67.78	-70.33	6.43	-3.87	-13.00	-54.78
872.93	S	-61.66	-63.30	6.00	-4.36	-13.00	-48.66
940.83	S	-62.71	-63.99	5.78	-4.51	-13.00	-49.71
3505.20	H	-54.05	-54.45	7.40	-7.01	-13.00	-41.05
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2012-10-19
ARFCN	:CH 1513	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
94.02	S	-69.33	-67.68	1.07	-2.72	-13.00	-56.33
240.49	S	-71.50	-74.82	6.55	-3.23	-13.00	-58.50
288.99	S	-68.61	-72.07	6.68	-3.22	-13.00	-55.61
577.08	S	-65.55	-68.11	6.43	-3.87	-13.00	-52.55
871.96	S	-62.42	-64.07	6.01	-4.36	-13.00	-49.42
940.83	S	-63.95	-65.22	5.78	-4.51	-13.00	-50.95
3505.20	H	-55.70	-56.01	7.31	-7.01	-13.00	-42.70
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band	:HSDPA B5	Test Date	:2012-10-18
ARFCN	:CH 4132	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:826.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-72.35	-56.35	-13.53	-2.47	-13.00	-59.35
96.93	S	-70.31	-66.56	-1.03	-2.72	-13.00	-57.31
185.20	S	-69.94	-69.93	3.08	-3.09	-13.00	-56.94
288.99	S	-70.58	-71.90	4.53	-3.22	-13.00	-57.58
577.08	S	-70.28	-70.69	4.28	-3.87	-13.00	-57.28
672.14	S	-72.84	-72.87	4.13	-4.10	-13.00	-59.84
1652.80	H	-52.68	-49.71	2.38	-5.36	-13.00	-39.68
2479.20	H	-50.86	-47.85	3.14	-6.15	-13.00	-37.86
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-10-18
ARFCN	:CH 4132	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:826.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
94.02	S	-72.90	-69.11	-1.08	-2.72	-13.00	-59.90
176.47	S	-70.83	-69.79	1.89	-2.93	-13.00	-57.83
288.99	S	-70.64	-71.95	4.53	-3.22	-13.00	-57.64
552.83	S	-71.44	-72.14	4.55	-3.85	-13.00	-58.44
577.08	S	-67.82	-68.22	4.28	-3.87	-13.00	-54.82
673.11	S	-77.22	-77.26	4.13	-4.10	-13.00	-64.22
1652.80	H	-58.80	-56.12	2.67	-5.36	-13.00	-45.80
2479.20	H	-55.84	-53.21	3.52	-6.15	-13.00	-42.84
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-10-18
ARFCN	:CH 4183	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
106.63	S	-71.09	-67.33	-1.04	-2.72	-13.00	-58.09
157.07	S	-69.71	-66.06	-0.72	-2.93	-13.00	-56.71
288.99	S	-70.68	-71.99	4.53	-3.22	-13.00	-57.68
373.38	S	-73.68	-74.88	4.62	-3.43	-13.00	-60.68
577.08	S	-70.04	-70.44	4.28	-3.87	-13.00	-57.04
672.14	S	-73.17	-73.21	4.13	-4.10	-13.00	-60.17
1673.20	H	-54.85	-53.10	2.33	-4.08	-13.00	-41.85
2509.80	H	-53.26	-51.38	3.19	-5.07	-13.00	-40.26
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-10-18
ARFCN	:CH 4183	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
138.64	S	-72.92	-68.88	-1.26	-2.79	-13.00	-59.92
173.56	S	-72.70	-71.20	1.43	-2.93	-13.00	-59.70
195.87	S	-68.97	-70.18	4.29	-3.09	-13.00	-55.97
288.99	S	-70.84	-72.15	4.53	-3.22	-13.00	-57.84
552.83	S	-71.81	-72.50	4.55	-3.85	-13.00	-58.81
577.08	S	-68.03	-68.43	4.28	-3.87	-13.00	-55.03
1673.20	H	-55.01	-52.33	2.66	-5.34	-13.00	-42.01
2509.80	H	-57.34	-54.77	3.56	-6.13	-13.00	-44.34
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-10-18
ARFCN	:CH 4233	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:846.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
106.63	S	-71.15	-67.39	-1.04	-2.72	-13.00	-58.15
160.95	S	-68.53	-65.17	-0.43	-2.93	-13.00	-55.53
183.26	S	-67.14	-66.89	2.84	-3.09	-13.00	-54.14
288.99	S	-70.81	-72.12	4.53	-3.22	-13.00	-57.81
335.55	S	-73.64	-74.89	4.69	-3.44	-13.00	-60.64
577.08	S	-70.20	-70.60	4.28	-3.87	-13.00	-57.20
1693.20	H	-52.97	-51.15	2.29	-4.11	-13.00	-39.97
2539.80	H	-57.33	-55.52	3.28	-5.10	-13.00	-44.33
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-10-18
ARFCN	:CH 4233	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:846.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-73.26	-69.49	-1.05	-2.72	-13.00	-60.26
175.50	S	-72.31	-71.12	1.74	-2.93	-13.00	-59.31
299.66	S	-69.70	-71.11	4.67	-3.25	-13.00	-56.70
335.55	S	-74.69	-75.94	4.69	-3.44	-13.00	-61.69
552.83	S	-71.64	-72.33	4.55	-3.85	-13.00	-58.64
577.08	S	-67.95	-68.35	4.28	-3.87	-13.00	-54.95
1693.20	H	-55.88	-54.43	2.65	-4.10	-13.00	-42.88
2539.80	H	-58.70	-57.24	3.64	-5.10	-13.00	-45.70
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: CDMA 2000 Cellular Mode

Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 1013	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:824.70 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
94.99	S	-65.37	-63.27	-1.06	-1.03	-13.00	-52.37
135.73	S	-66.09	-63.82	-1.08	-1.19	-13.00	-53.09
191.99	S	-67.91	-70.39	3.87	-1.39	-13.00	-54.91
566.41	S	-70.81	-72.91	4.39	-2.30	-13.00	-57.81
672.14	S	-72.70	-74.32	4.13	-2.51	-13.00	-59.70
966.05	S	-68.05	-68.71	3.75	-3.08	-13.00	-55.05
1649.40	H	-40.60	-38.94	2.39	-4.05	-13.00	-27.60
2474.10	H	-55.46	-53.56	3.13	-5.03	-13.00	-42.46
3298.80	H	-53.76	-52.64	4.71	-5.83	-13.00	-40.76
4123.50	H	-51.62	-50.80	5.80	-6.62	-13.00	-38.62
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
7496.00	S	-40.81	-39.90	8.30	-9.21	-13.00	-27.81
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 1013	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:824.70 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
137.67	S	-66.42	-64.02	-1.20	-1.20	-13.00	-53.42
191.99	S	-63.76	-66.24	3.87	-1.39	-13.00	-50.76
240.49	S	-67.51	-70.38	4.40	-1.53	-13.00	-54.51
542.16	S	-65.79	-68.15	4.60	-2.25	-13.00	-52.79
599.39	S	-69.39	-71.06	4.04	-2.37	-13.00	-56.39
672.14	S	-69.83	-71.45	4.13	-2.51	-13.00	-56.83
1649.40	H	-49.18	-47.80	2.68	-4.05	-13.00	-36.18
2474.10	H	-57.25	-55.74	3.52	-5.03	-13.00	-44.25
3298.80	H	-54.49	-53.36	4.70	-5.83	-13.00	-41.49
4123.50	H	-51.98	-50.88	5.52	-6.63	-13.00	-38.98
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
7468.00	S	-42.28	-40.64	7.49	-9.13	-13.00	-29.28
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 384	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:836.52 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
134.76	S	-65.94	-63.73	-1.02	-1.19	-13.00	-52.94
191.99	S	-67.24	-69.72	3.87	-1.39	-13.00	-54.24
335.55	S	-72.56	-75.45	4.69	-1.80	-13.00	-59.56
549.92	S	-71.61	-73.93	4.58	-2.26	-13.00	-58.61
672.14	S	-71.68	-73.30	4.13	-2.51	-13.00	-58.68
995.15	S	-61.53	-62.40	3.97	-3.10	-13.00	-48.53
1673.04	H	-42.97	-41.22	2.33	-4.08	-13.00	-29.97
2509.56	H	-57.59	-55.72	3.19	-5.07	-13.00	-44.59
3346.08	H	-54.18	-53.14	4.84	-5.88	-13.00	-41.18
4182.60	H	-51.46	-50.67	5.89	-6.68	-13.00	-38.46
5019.60	H	-50.65	-49.98	6.64	-7.32	-13.00	-37.65
5855.64	H	---					
6692.16	H	---					
7492.00	H	-40.55	-39.65	8.29	-9.20	-13.00	-27.55
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 384	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:836.52 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
133.79	S	-67.01	-64.87	-0.95	-1.19	-13.00	-54.01
191.99	S	-64.52	-67.00	3.87	-1.39	-13.00	-51.52
240.49	S	-67.78	-70.64	4.40	-1.53	-13.00	-54.78
536.34	S	-66.32	-68.70	4.62	-2.24	-13.00	-53.32
672.14	S	-69.07	-70.69	4.13	-2.51	-13.00	-56.07
966.05	S	-67.85	-68.52	3.75	-3.08	-13.00	-54.85
1673.04	H	-47.39	-45.97	2.66	-4.08	-13.00	-34.39
2509.56	H	-57.82	-56.31	3.56	-5.07	-13.00	-44.82
3346.08	H	-54.25	-53.18	4.81	-5.88	-13.00	-41.25
4182.60	H	-50.48	-49.34	5.54	-6.68	-13.00	-37.48
5019.12	H	-49.72	-48.46	6.05	-7.31	-13.00	-36.72
5855.64	H	---					
6692.16	H	---					
7464.00	S	-41.64	-40.00	7.49	-9.12	-13.00	-28.64
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 777	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:848.31 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
131.85	S	-66.34	-64.33	-0.83	-1.18	-13.00	-53.34
191.99	S	-67.58	-70.06	3.87	-1.39	-13.00	-54.58
335.55	S	-72.45	-75.35	4.69	-1.80	-13.00	-59.45
576.11	S	-71.27	-73.24	4.29	-2.32	-13.00	-58.27
672.14	S	-71.97	-73.59	4.13	-2.51	-13.00	-58.97
966.05	S	-68.05	-68.72	3.75	-3.08	-13.00	-55.05
1696.62	H	-46.27	-44.45	2.29	-4.11	-13.00	-33.27
2544.93	H	-56.62	-54.75	3.19	-5.07	-13.00	-43.62
3393.24	H	-52.66	-51.67	4.97	-5.96	-13.00	-39.66
4241.55	H	-49.75	-49.03	5.97	-6.69	-13.00	-36.75
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7472.00	S	-40.28	-39.39	8.26	-9.14	-13.00	-27.28
7634.79	H	---					
8483.10	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 777	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:848.31 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
137.67	S	-66.88	-64.48	-1.20	-1.20	-13.00	-53.88
191.99	S	-64.79	-67.27	3.87	-1.39	-13.00	-51.79
288.02	S	-68.30	-71.14	4.52	-1.68	-13.00	-55.30
542.16	S	-66.24	-68.60	4.60	-2.25	-13.00	-53.24
672.14	S	-70.18	-71.80	4.13	-2.51	-13.00	-57.18
966.05	S	-67.40	-68.06	3.75	-3.08	-13.00	-54.40
1696.62	H	-47.43	-45.97	2.65	-4.11	-13.00	-34.43
2544.93	H	-59.04	-57.59	3.65	-5.11	-13.00	-46.04
3393.24	H	-55.30	-54.26	4.93	-5.96	-13.00	-42.30
4241.55	H	-49.35	-48.22	5.56	-6.69	-13.00	-36.35
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7464.00	S	-42.24	-40.60	7.49	-9.12	-13.00	-29.24
7634.79	H	---					
8483.10	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 PCS Mode

Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 25	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
133.79	S	-64.37	-64.37	1.20	-1.19	-13.00	-51.37
191.99	S	-64.84	-69.47	6.02	-1.39	-13.00	-51.84
335.55	S	-70.73	-75.78	6.84	-1.80	-13.00	-57.73
566.41	S	-69.93	-74.18	6.54	-2.30	-13.00	-56.93
672.14	S	-69.83	-73.60	6.28	-2.51	-13.00	-56.83
966.05	S	-65.21	-68.02	5.90	-3.08	-13.00	-52.21
3702.50	H	-35.35	-36.51	7.40	-6.24	-13.00	-22.35
5553.75	H	-47.79	-48.97	8.99	-7.80	-13.00	-34.79
7405.00	H	---					
7488.00	S	-38.78	-40.03	10.43	-9.19	-13.00	-25.78
9256.25	H	-36.89	-38.19	11.70	-10.40	-13.00	-23.89
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 25	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	: HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
131.85	S	-65.38	-65.52	1.32	-1.18	-13.00	-52.38
191.99	S	-67.66	-72.30	6.02	-1.39	-13.00	-54.66
335.55	S	-70.45	-75.49	6.84	-1.80	-13.00	-57.45
542.16	S	-66.32	-70.83	6.75	-2.25	-13.00	-53.32
672.14	S	-69.19	-72.96	6.28	-2.51	-13.00	-56.19
966.05	S	-65.97	-68.78	5.90	-3.08	-13.00	-52.97
3702.50	H	-44.74	-45.42	6.91	-6.23	-13.00	-31.74
5553.75	H	-47.79	-48.27	8.28	-7.80	-13.00	-34.79
7405.00	H	---					
7464.00	S	-39.96	-40.47	9.64	-9.12	-13.00	-26.96
9256.25	H	-37.78	-38.13	10.75	-10.40	-13.00	-24.78
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 600	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1880.00 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
134.76	S	-64.30	-64.24	1.13	-1.19	-13.00	-51.30
191.99	S	-66.23	-70.86	6.02	-1.39	-13.00	-53.23
335.55	S	-70.70	-75.74	6.84	-1.80	-13.00	-57.70
528.58	S	-69.33	-73.89	6.79	-2.22	-13.00	-56.33
672.14	S	-68.99	-72.76	6.28	-2.51	-13.00	-55.99
966.05	S	-64.99	-67.80	5.90	-3.08	-13.00	-51.99
3760.00	H	-45.07	-46.17	7.42	-6.32	-13.00	-32.07
5640.00	H	-46.31	-47.43	9.01	-7.89	-13.00	-33.31
7464.00	S	-40.98	-42.25	10.40	-9.12	-13.00	-27.98
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 600	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1880.00 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
133.79	S	-64.97	-64.98	1.20	-1.19	-13.00	-51.97
191.99	S	-66.89	-71.52	6.02	-1.39	-13.00	-53.89
335.55	S	-70.07	-75.12	6.84	-1.80	-13.00	-57.07
543.13	S	-66.74	-71.24	6.75	-2.25	-13.00	-53.74
672.14	S	-69.47	-73.24	6.28	-2.51	-13.00	-56.47
966.05	S	-67.03	-69.84	5.90	-3.08	-13.00	-54.03
3760.00	H	-48.41	-48.93	6.85	-6.32	-13.00	-35.41
5640.00	H	-48.16	-48.57	8.30	-7.89	-13.00	-35.16
7464.00	S	-41.44	-41.96	9.64	-9.12	-13.00	-28.44
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 1175	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
134.76	S	-63.82	-63.77	1.13	-1.19	-13.00	-50.82
191.99	S	-65.18	-69.82	6.02	-1.39	-13.00	-52.18
335.55	S	-70.66	-75.70	6.84	-1.80	-13.00	-57.66
527.61	S	-69.39	-73.96	6.79	-2.22	-13.00	-56.39
672.14	S	-70.39	-74.16	6.28	-2.51	-13.00	-57.39
966.05	S	-66.34	-69.16	5.90	-3.08	-13.00	-53.34
3817.50	H	-42.79	-43.91	7.50	-6.38	-13.00	-29.79
5726.25	H	-45.27	-46.37	9.03	-7.92	-13.00	-32.27
7476.00	S	-40.51	-41.77	10.41	-9.15	-13.00	-27.51
7635.00	H	-37.98	-39.09	10.47	-9.36	-13.00	-24.98
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 1175	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
131.85	S	-65.19	-65.33	1.32	-1.18	-13.00	-52.19
191.99	S	-66.93	-71.56	6.02	-1.39	-13.00	-53.93
335.55	S	-70.51	-75.55	6.84	-1.80	-13.00	-57.51
536.34	S	-66.70	-71.24	6.77	-2.24	-13.00	-53.70
672.14	S	-70.12	-73.89	6.28	-2.51	-13.00	-57.12
962.17	S	-66.50	-69.29	5.87	-3.08	-13.00	-53.50
3817.50	H	-47.40	-48.06	7.05	-6.39	-13.00	-34.40
5726.25	H	-46.54	-46.94	8.32	-7.92	-13.00	-33.54
7464.00	S	-40.97	-41.48	9.64	-9.12	-13.00	-27.97
7635.00	H	---					
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode (Second Antenna)

Operation Band	:EDGE 850	Test Date	:2012-10-18
ARFCN	:CH 128	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:824.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-69.46	-65.69	-1.05	-2.72	-13.00	-56.46
147.37	S	-70.01	-65.91	-1.17	-2.93	-13.00	-57.01
288.02	S	-70.64	-71.94	4.52	-3.22	-13.00	-57.64
335.55	S	-72.73	-73.98	4.69	-3.44	-13.00	-59.73
577.08	S	-68.04	-68.45	4.28	-3.87	-13.00	-55.04
672.14	S	-70.11	-70.15	4.13	-4.10	-13.00	-57.11
1648.40	H	-55.06	-52.10	2.39	-5.36	-13.00	-42.06
2472.60	H	-57.18	-54.17	3.14	-6.15	-13.00	-44.18
3288.00	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2012-10-18
ARFCN	:CH 128	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:824.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-72.23	-68.46	-1.05	-2.72	-13.00	-59.23
239.52	S	-70.79	-71.96	4.40	-3.23	-13.00	-57.79
271.53	S	-66.73	-67.99	4.54	-3.27	-13.00	-53.73
288.02	S	-70.29	-71.59	4.52	-3.22	-13.00	-57.29
528.58	S	-73.39	-74.26	4.64	-3.77	-13.00	-60.39
577.08	S	-68.15	-68.55	4.28	-3.87	-13.00	-55.15
1648.40	H	-51.86	-49.18	2.68	-5.36	-13.00	-38.86
2472.60	H	-58.22	-55.59	3.52	-6.15	-13.00	-45.22
3288.00	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2012-10-18
ARFCN	:CH 190	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-69.31	-53.31	-13.53	-2.47	-13.00	-56.31
95.96	S	-71.25	-67.48	-1.05	-2.72	-13.00	-58.25
137.67	S	-69.10	-65.11	-1.20	-2.79	-13.00	-56.10
288.02	S	-74.18	-75.48	4.52	-3.22	-13.00	-61.18
577.08	S	-70.76	-71.16	4.28	-3.87	-13.00	-57.76
672.14	S	-72.66	-72.70	4.13	-4.10	-13.00	-59.66
1673.20	H	-59.11	-56.10	2.33	-5.34	-13.00	-46.11
2509.80	H	-53.95	-51.02	3.19	-6.13	-13.00	-40.95
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2012-10-18
ARFCN	:CH 190	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-72.44	-68.67	-1.05	-2.72	-13.00	-59.44
239.52	S	-70.87	-72.04	4.40	-3.23	-13.00	-57.87
268.62	S	-68.11	-69.42	4.58	-3.27	-13.00	-55.11
288.02	S	-69.65	-70.95	4.52	-3.22	-13.00	-56.65
552.83	S	-72.40	-73.09	4.55	-3.85	-13.00	-59.40
577.08	S	-68.10	-68.50	4.28	-3.87	-13.00	-55.10
1673.20	H	-57.77	-55.09	2.66	-5.34	-13.00	-44.77
2509.80	H	-57.07	-54.50	3.56	-6.13	-13.00	-44.07
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2012-10-18
ARFCN	:CH 251	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:848.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-73.08	-57.09	-13.53	-2.47	-13.00	-60.08
95.96	S	-70.14	-66.38	-1.05	-2.72	-13.00	-57.14
198.78	S	-68.18	-69.69	4.60	-3.09	-13.00	-55.18
288.02	S	-70.37	-71.67	4.52	-3.22	-13.00	-57.37
335.55	S	-72.65	-73.90	4.69	-3.44	-13.00	-59.65
577.08	S	-67.54	-67.94	4.28	-3.87	-13.00	-54.54
1697.60	H	-57.15	-54.02	2.28	-5.40	-13.00	-44.15
2546.40	H	-53.11	-50.17	3.30	-6.24	-13.00	-40.11
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2012-10-18
ARFCN	:CH 251	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:848.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-72.00	-68.24	-1.05	-2.72	-13.00	-59.00
173.56	S	-73.08	-71.58	1.43	-2.93	-13.00	-60.08
240.49	S	-71.13	-72.30	4.40	-3.23	-13.00	-58.13
269.59	S	-67.56	-68.85	4.56	-3.27	-13.00	-54.56
288.02	S	-69.75	-71.05	4.52	-3.22	-13.00	-56.75
577.08	S	-67.55	-67.95	4.28	-3.87	-13.00	-54.55
1697.60	H	-56.97	-54.22	2.65	-5.40	-13.00	-43.97
2546.40	H	-58.01	-55.43	3.65	-6.24	-13.00	-45.01
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GPRS 1900	Test Date	:2012-10-18
ARFCN	:CH 512	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-67.58	-65.97	1.10	-2.72	-13.00	-54.58
288.02	S	-68.52	-71.97	6.67	-3.22	-13.00	-55.52
335.55	S	-70.52	-73.92	6.84	-3.44	-13.00	-57.52
577.08	S	-65.24	-67.79	6.43	-3.87	-13.00	-52.24
871.96	S	-62.43	-64.08	6.01	-4.36	-13.00	-49.43
995.15	S	-59.00	-60.63	6.12	-4.49	-13.00	-46.00
3700.40	H	-52.58	-53.01	7.40	-6.98	-13.00	-39.58
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2012-10-18
ARFCN	:CH 512	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-69.73	-68.12	1.10	-2.72	-13.00	-56.73
191.99	S	-70.12	-73.06	6.02	-3.09	-13.00	-57.12
240.49	S	-68.62	-71.94	6.55	-3.23	-13.00	-55.62
288.02	S	-67.82	-71.27	6.67	-3.22	-13.00	-54.82
577.08	S	-66.43	-68.98	6.43	-3.87	-13.00	-53.43
870.99	S	-65.11	-66.77	6.02	-4.36	-13.00	-52.11
3700.40	H	-55.19	-55.12	6.91	-6.98	-13.00	-42.19
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2012-10-18
ARFCN	:CH 661	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-68.25	-66.64	1.10	-2.72	-13.00	-55.25
288.02	S	-72.07	-75.52	6.67	-3.22	-13.00	-59.07
335.55	S	-71.93	-75.33	6.84	-3.44	-13.00	-58.93
577.08	S	-68.78	-71.33	6.43	-3.87	-13.00	-55.78
871.96	S	-64.54	-66.20	6.01	-4.36	-13.00	-51.54
995.15	S	-61.47	-63.10	6.12	-4.49	-13.00	-48.47
3760.00	H	-51.12	-51.42	7.42	-7.12	-13.00	-38.12
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2012-10-18
ARFCN	:CH 661	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-68.93	-67.31	1.10	-2.72	-13.00	-55.93
240.49	S	-69.11	-72.43	6.55	-3.23	-13.00	-56.11
288.02	S	-67.88	-71.33	6.67	-3.22	-13.00	-54.88
577.08	S	-65.69	-68.25	6.43	-3.87	-13.00	-52.69
870.99	S	-64.82	-66.48	6.02	-4.36	-13.00	-51.82
995.15	S	-66.18	-67.81	6.12	-4.49	-13.00	-53.18
3760.00	H	-53.30	-53.03	6.85	-7.12	-13.00	-40.30
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2012-10-18
ARFCN	:CH 810	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-67.48	-65.86	1.10	-2.72	-13.00	-54.48
288.02	S	-68.45	-71.90	6.67	-3.22	-13.00	-55.45
335.55	S	-70.64	-74.04	6.84	-3.44	-13.00	-57.64
577.08	S	-65.35	-67.90	6.43	-3.87	-13.00	-52.35
870.99	S	-63.61	-65.27	6.02	-4.36	-13.00	-50.61
995.15	S	-57.95	-59.58	6.12	-4.49	-13.00	-44.95
3819.60	H	-53.42	-53.73	7.51	-7.20	-13.00	-40.42
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2012-10-18
ARFCN	:CH 810	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-70.05	-68.43	1.10	-2.72	-13.00	-57.05
240.49	S	-68.86	-72.19	6.55	-3.23	-13.00	-55.86
288.02	S	-67.92	-71.37	6.67	-3.22	-13.00	-54.92
335.55	S	-70.07	-73.47	6.84	-3.44	-13.00	-57.07
577.08	S	-66.07	-68.62	6.43	-3.87	-13.00	-53.07
870.99	S	-64.60	-66.26	6.02	-4.36	-13.00	-51.60
3819.60	H	-58.01	-57.84	7.03	-7.20	-13.00	-45.01
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Band	:HSDPA B2	Test Date	:2012-10-18
ARFCN	:CH 9262	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-67.11	-65.50	1.10	-2.72	-13.00	-54.11
183.26	S	-67.03	-68.93	4.99	-3.09	-13.00	-54.03
288.02	S	-68.18	-71.64	6.67	-3.22	-13.00	-55.18
335.55	S	-71.53	-74.93	6.84	-3.44	-13.00	-58.53
577.08	S	-65.74	-68.30	6.43	-3.87	-13.00	-52.74
870.99	S	-63.00	-64.66	6.02	-4.36	-13.00	-50.00
3704.80	H	-48.42	-48.76	7.40	-7.06	-13.00	-35.42
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2012-10-18
ARFCN	:CH 9262	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-68.48	-66.87	1.10	-2.72	-13.00	-55.48
239.52	S	-69.13	-72.45	6.55	-3.23	-13.00	-56.13
270.56	S	-66.65	-70.08	6.70	-3.27	-13.00	-53.65
335.55	S	-71.16	-74.56	6.84	-3.44	-13.00	-58.16
577.08	S	-66.13	-68.68	6.43	-3.87	-13.00	-53.13
870.99	S	-64.76	-66.42	6.02	-4.36	-13.00	-51.76
3704.80	H	-54.95	-54.79	6.90	-7.06	-13.00	-41.95
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2012-10-18
ARFCN	:CH 9400	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-67.26	-53.26	-11.54	-2.47	-13.00	-54.26
95.96	S	-67.97	-66.36	1.10	-2.72	-13.00	-54.97
288.02	S	-71.72	-75.17	6.67	-3.22	-13.00	-58.72
577.08	S	-68.56	-71.11	6.43	-3.87	-13.00	-55.56
870.99	S	-64.14	-65.80	6.02	-4.36	-13.00	-51.14
999.03	S	-61.84	-63.50	6.14	-4.49	-13.00	-48.84
3760.00	H	-52.25	-52.55	7.42	-7.12	-13.00	-39.25
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2012-10-18
ARFCN	:CH 9400	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1880 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-68.95	-67.33	1.10	-2.72	-13.00	-55.95
240.49	S	-68.98	-72.30	6.55	-3.23	-13.00	-55.98
288.02	S	-67.60	-71.05	6.67	-3.22	-13.00	-54.60
577.08	S	-66.04	-68.59	6.43	-3.87	-13.00	-53.04
870.99	S	-65.09	-66.76	6.02	-4.36	-13.00	-52.09
995.15	S	-65.18	-66.81	6.12	-4.49	-13.00	-52.18
3760.00	H	-56.33	-56.06	6.85	-7.12	-13.00	-43.33
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2012-10-18
ARFCN	:CH 9538	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
95.96	S	-66.71	-65.09	1.10	-2.72	-13.00	-53.71
288.02	S	-68.80	-72.26	6.67	-3.22	-13.00	-55.80
335.55	S	-71.44	-74.84	6.84	-3.44	-13.00	-58.44
577.08	S	-65.59	-68.15	6.43	-3.87	-13.00	-52.59
871.96	S	-63.31	-64.96	6.01	-4.36	-13.00	-50.31
995.15	S	-60.43	-62.06	6.12	-4.49	-13.00	-47.43
3815.20	H	-46.25	-46.55	7.50	-7.20	-13.00	-33.25
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2012-10-18
ARFCN	:CH 9538	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-68.07	-66.45	1.10	-2.72	-13.00	-55.07
240.49	S	-68.99	-72.31	6.55	-3.23	-13.00	-55.99
269.59	S	-70.25	-73.69	6.71	-3.27	-13.00	-57.25
288.02	S	-67.82	-71.28	6.67	-3.22	-13.00	-54.82
577.08	S	-65.68	-68.24	6.43	-3.87	-13.00	-52.68
870.99	S	-64.70	-66.37	6.02	-4.36	-13.00	-51.70
3815.20	H	-53.29	-53.12	7.03	-7.20	-13.00	-40.29
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Band	:HSDPA B4	Test Date	:2012-10-19
ARFCN	:CH 1312	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-67.81	-66.19	1.10	-2.72	-13.00	-54.81
288.02	S	-68.31	-71.76	6.67	-3.22	-13.00	-55.31
335.55	S	-70.78	-74.18	6.84	-3.44	-13.00	-57.78
577.08	S	-65.50	-68.06	6.43	-3.87	-13.00	-52.50
871.96	S	-62.82	-64.47	6.01	-4.36	-13.00	-49.82
995.15	S	-60.88	-62.51	6.12	-4.49	-13.00	-47.88
3424.80	H	-55.46	-55.78	7.20	-6.89	-13.00	-42.46
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2012-10-19
ARFCN	:CH 1312	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-69.60	-67.98	1.10	-2.72	-13.00	-56.60
240.49	S	-68.59	-71.91	6.55	-3.23	-13.00	-55.59
288.02	S	-67.87	-71.32	6.67	-3.22	-13.00	-54.87
528.58	S	-70.40	-73.42	6.79	-3.77	-13.00	-57.40
577.08	S	-65.89	-68.44	6.43	-3.87	-13.00	-52.89
871.96	S	-61.79	-63.45	6.01	-4.36	-13.00	-48.79
3424.80	H	-57.49	-57.75	7.15	-6.89	-13.00	-44.49
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2012-10-19
ARFCN	:CH 1413	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-70.76	-56.75	-11.54	-2.47	-13.00	-57.76
95.96	S	-69.23	-67.61	1.10	-2.72	-13.00	-56.23
288.02	S	-71.72	-75.17	6.67	-3.22	-13.00	-58.72
577.08	S	-69.05	-71.60	6.43	-3.87	-13.00	-56.05
870.99	S	-63.42	-65.08	6.02	-4.36	-13.00	-50.42
995.15	S	-62.77	-64.40	6.12	-4.49	-13.00	-49.77
3465.20	H	-55.21	-55.54	7.31	-6.99	-13.00	-42.21
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2012-10-19
ARFCN	:CH 1413	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-70.48	-68.86	1.10	-2.72	-13.00	-57.48
240.49	S	-68.98	-72.30	6.55	-3.23	-13.00	-55.98
288.02	S	-67.81	-71.26	6.67	-3.22	-13.00	-54.81
577.08	S	-65.63	-68.19	6.43	-3.87	-13.00	-52.63
870.99	S	-63.40	-65.06	6.02	-4.36	-13.00	-50.40
995.15	S	-66.38	-68.01	6.12	-4.49	-13.00	-53.38
3465.20	H	-56.75	-57.00	7.24	-6.99	-13.00	-43.75
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2012-10-19
ARFCN	:CH 1513	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-67.88	-66.27	1.10	-2.72	-13.00	-54.88
198.78	S	-70.98	-74.65	6.75	-3.09	-13.00	-57.98
288.02	S	-68.15	-71.60	6.67	-3.22	-13.00	-55.15
577.08	S	-65.39	-67.94	6.43	-3.87	-13.00	-52.39
871.96	S	-62.80	-64.46	6.01	-4.36	-13.00	-49.80
995.15	S	-59.51	-61.14	6.12	-4.49	-13.00	-46.51
3505.20	H	-54.17	-54.56	7.40	-7.01	-13.00	-41.17
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2012-10-19
ARFCN	:CH 1513	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-69.19	-67.57	1.10	-2.72	-13.00	-56.19
240.49	S	-69.07	-72.39	6.55	-3.23	-13.00	-56.07
288.02	S	-67.54	-70.99	6.67	-3.22	-13.00	-54.54
577.08	S	-65.93	-68.48	6.43	-3.87	-13.00	-52.93
870.99	S	-65.19	-66.85	6.02	-4.36	-13.00	-52.19
999.03	S	-65.16	-66.81	6.14	-4.49	-13.00	-52.16
3505.20	H	-56.93	-57.23	7.31	-7.01	-13.00	-43.93
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA V Mode

Operation Band	:HSUPA B5	Test Date	:2012-10-18
ARFCN	:CH 4132	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:826.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-69.99	-66.22	-1.05	-2.72	-13.00	-56.99
155.13	S	-70.49	-66.73	-0.83	-2.93	-13.00	-57.49
186.17	S	-68.58	-68.69	3.19	-3.09	-13.00	-55.58
288.02	S	-70.50	-71.80	4.52	-3.22	-13.00	-57.50
335.55	S	-72.72	-73.97	4.69	-3.44	-13.00	-59.72
577.08	S	-67.44	-67.85	4.28	-3.87	-13.00	-54.44
1652.80	H	-53.25	-50.28	2.38	-5.36	-13.00	-40.25
2479.20	H	-54.74	-51.73	3.14	-6.15	-13.00	-41.74
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-10-18
ARFCN	:CH 4132	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:826.4 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-72.04	-68.27	-1.05	-2.72	-13.00	-59.04
175.50	S	-73.64	-72.45	1.74	-2.93	-13.00	-60.64
240.49	S	-70.92	-72.09	4.40	-3.23	-13.00	-57.92
288.02	S	-70.25	-71.55	4.52	-3.22	-13.00	-57.25
335.55	S	-73.08	-74.33	4.69	-3.44	-13.00	-60.08
577.08	S	-67.81	-68.21	4.28	-3.87	-13.00	-54.81
1652.80	H	-57.52	-54.84	2.67	-5.36	-13.00	-44.52
2479.20	H	-53.74	-51.11	3.52	-6.15	-13.00	-40.74
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-10-18
ARFCN	:CH 4183	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
37.76	S	-70.09	-54.02	-13.61	-2.47	-13.00	-57.09
95.96	S	-70.57	-66.80	-1.05	-2.72	-13.00	-57.57
136.70	S	-74.88	-70.95	-1.14	-2.79	-13.00	-61.88
288.02	S	-74.07	-75.37	4.52	-3.22	-13.00	-61.07
335.55	S	-74.90	-76.16	4.69	-3.44	-13.00	-61.90
577.08	S	-70.87	-71.27	4.28	-3.87	-13.00	-57.87
1673.20	H	-54.49	-51.48	2.33	-5.34	-13.00	-41.49
2509.80	H	-56.46	-53.53	3.19	-6.13	-13.00	-43.46
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-10-18
ARFCN	:CH 4183	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:836.6 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-70.19	-66.43	-1.05	-2.72	-13.00	-57.19
240.49	S	-71.22	-72.39	4.40	-3.23	-13.00	-58.22
288.02	S	-70.07	-71.37	4.52	-3.22	-13.00	-57.07
528.58	S	-73.14	-74.01	4.64	-3.77	-13.00	-60.14
552.83	S	-72.19	-72.88	4.55	-3.85	-13.00	-59.19
577.08	S	-68.38	-68.78	4.28	-3.87	-13.00	-55.38
1673.20	H	-57.15	-54.47	2.66	-5.34	-13.00	-44.15
2509.80	H	-56.99	-54.42	3.56	-6.13	-13.00	-43.99
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-10-18
ARFCN	:CH 4233	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:846.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
38.73	S	-72.09	-56.09	-13.53	-2.47	-13.00	-59.09
95.96	S	-68.88	-65.12	-1.05	-2.72	-13.00	-55.88
178.41	S	-68.73	-67.99	2.19	-2.93	-13.00	-55.73
288.02	S	-70.53	-71.83	4.52	-3.22	-13.00	-57.53
577.08	S	-67.80	-68.21	4.28	-3.87	-13.00	-54.80
672.14	S	-72.64	-72.68	4.13	-4.10	-13.00	-59.64
1693.20	H	-52.98	-49.86	2.29	-5.40	-13.00	-39.98
2539.80	H	-50.01	-47.11	3.27	-6.17	-13.00	-37.01
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2012-10-18
ARFCN	:CH 4233	Temp./Humi.	:25.1deg_C/65RH
Fundamental Frequency	:846.6 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-71.39	-67.63	-1.05	-2.72	-13.00	-58.39
240.49	S	-70.98	-72.15	4.40	-3.23	-13.00	-57.98
288.02	S	-69.86	-71.16	4.52	-3.22	-13.00	-56.86
335.55	S	-72.59	-73.84	4.69	-3.44	-13.00	-59.59
552.83	S	-72.70	-73.40	4.55	-3.85	-13.00	-59.70
577.08	S	-68.05	-68.46	4.28	-3.87	-13.00	-55.05
1693.20	H	-56.79	-54.04	2.65	-5.40	-13.00	-43.79
2539.80	H	-54.17	-51.62	3.63	-6.17	-13.00	-41.17
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 Cellular Mode

Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 1013	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:824.70 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
36.79	S	-70.36	-55.80	-13.69	-0.87	-13.00	-57.36
135.73	S	-68.25	-65.98	-1.08	-1.19	-13.00	-55.25
183.26	S	-70.88	-72.36	2.84	-1.36	-13.00	-57.88
227.88	S	-73.51	-76.68	4.67	-1.50	-13.00	-60.51
335.55	S	-73.25	-76.14	4.69	-1.80	-13.00	-60.25
576.11	S	-71.23	-73.20	4.29	-2.32	-13.00	-58.23
1649.40	H	-45.54	-43.88	2.39	-4.05	-13.00	-32.54
2474.10	H	-49.26	-47.37	3.14	-5.03	-13.00	-36.26
3298.80	H	-54.50	-53.38	4.71	-5.83	-13.00	-41.50
4123.50	H	-53.13	-52.31	5.81	-6.63	-13.00	-40.13
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
7472.00	S	-40.23	-39.34	8.26	-9.14	-13.00	-27.23
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 1013	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:824.70 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
131.85	S	-69.78	-67.77	-0.83	-1.18	-13.00	-56.78
199.75	S	-73.40	-76.69	4.70	-1.41	-13.00	-60.40
335.55	S	-72.14	-75.03	4.69	-1.80	-13.00	-59.14
398.60	S	-75.12	-77.95	4.77	-1.94	-13.00	-62.12
564.47	S	-72.09	-74.22	4.42	-2.29	-13.00	-59.09
672.14	S	-74.77	-76.39	4.13	-2.51	-13.00	-61.77
1649.40	H	-51.56	-50.19	2.68	-4.05	-13.00	-38.56
2474.10	H	-51.35	-49.83	3.52	-5.03	-13.00	-38.35
3298.80	H	-55.39	-54.25	4.70	-5.83	-13.00	-42.39
4123.50	H	-52.78	-51.67	5.52	-6.63	-13.00	-39.78
4948.20	H	---					
5772.90	H	---					
6597.60	H	---					
7422.30	H	---					
7468.00	S	-41.83	-40.19	7.49	-9.13	-13.00	-28.83
8247.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 384	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:836.52 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-70.58	-68.50	-1.05	-1.03	-13.00	-57.58
135.73	S	-68.24	-65.97	-1.08	-1.19	-13.00	-55.24
184.23	S	-70.92	-72.52	2.96	-1.36	-13.00	-57.92
335.55	S	-73.25	-76.14	4.69	-1.80	-13.00	-60.25
576.11	S	-71.93	-73.90	4.29	-2.32	-13.00	-58.93
672.14	S	-72.99	-74.61	4.13	-2.51	-13.00	-59.99
1673.04	H	-45.85	-44.11	2.33	-4.08	-13.00	-32.85
2509.56	H	-57.12	-55.24	3.19	-5.07	-13.00	-44.12
3346.08	H	-54.56	-53.52	4.84	-5.88	-13.00	-41.56
4182.60	H	-51.55	-50.75	5.89	-6.68	-13.00	-38.55
5019.12	H	---					
5855.64	H	---					
6692.16	H	---					
7472.00	H	-40.73	-39.84	8.26	-9.14	-13.00	-27.73
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 384	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:836.52 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
135.73	S	-70.18	-67.91	-1.08	-1.19	-13.00	-57.18
176.47	S	-71.96	-72.52	1.89	-1.33	-13.00	-58.96
335.55	S	-71.50	-74.39	4.69	-1.80	-13.00	-58.50
533.43	S	-73.56	-75.96	4.62	-2.23	-13.00	-60.56
564.47	S	-71.59	-73.72	4.42	-2.29	-13.00	-58.59
672.14	S	-74.76	-76.38	4.13	-2.51	-13.00	-61.76
1673.04	H	-50.21	-48.79	2.66	-4.08	-13.00	-37.21
2509.56	H	-51.28	-49.77	3.56	-5.07	-13.00	-38.28
3346.08	H	-56.01	-54.94	4.81	-5.88	-13.00	-43.01
4182.60	H	-51.48	-50.34	5.54	-6.68	-13.00	-43.01
5019.12	H	---					
5855.64	H	---					
6692.16	H	---					
7464.00	S	-42.46	-40.82	7.49	-9.12	-13.00	-29.46
7528.68	H	---					
8365.20	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 777	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:848.31 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
95.96	S	-70.59	-68.51	-1.05	-1.03	-13.00	-57.59
135.73	S	-68.24	-65.97	-1.08	-1.19	-13.00	-55.24
183.26	S	-70.88	-72.36	2.84	-1.36	-13.00	-57.88
335.55	S	-72.77	-75.67	4.69	-1.80	-13.00	-59.77
576.11	S	-70.92	-72.88	4.29	-2.32	-13.00	-57.92
672.14	S	-72.93	-74.55	4.13	-2.51	-13.00	-59.93
1696.62	H	-48.71	-46.89	2.29	-4.11	-13.00	-35.71
2544.93	H	-55.31	-53.51	3.30	-5.11	-13.00	-42.31
3393.24	H	-53.81	-52.83	5.00	-5.98	-13.00	-40.81
4241.55	H	-50.69	-49.97	5.97	-6.69	-13.00	-37.69
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7468.00	S	-47.78	-40.90	8.25	-9.13	-13.00	-28.78
7634.79	H	---					
8483.10	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2012-12-24
ARFCN	:CH 777	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:848.31 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
134.76	S	-69.62	-67.41	-1.02	-1.19	-13.00	-56.62
206.54	S	-73.68	-77.02	4.77	-1.43	-13.00	-60.68
335.55	S	-72.56	-75.45	4.69	-1.80	-13.00	-59.56
530.52	S	-73.27	-75.68	4.63	-2.22	-13.00	-60.27
564.47	S	-72.00	-74.13	4.42	-2.29	-13.00	-59.00
597.45	S	-73.91	-75.60	4.06	-2.37	-13.00	-60.91
1696.62	H	-48.84	-47.38	2.65	-4.11	-13.00	-35.84
2544.93	H	-57.42	-55.97	3.65	-5.11	-13.00	-44.42
3393.24	H	-55.39	-54.36	4.93	-5.96	-13.00	-42.39
4241.55	H	-50.17	-49.03	5.56	-6.69	-13.00	-37.17
5089.86	H	---					
5938.17	H	---					
6786.48	H	---					
7468.00	S	-42.82	-41.17	7.49	-9.13	-13.00	-29.82
7634.79	H	---					
8483.10	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 PCS Mode

Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 25	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
103.72	S	-58.18	-58.24	1.13	-1.07	-13.00	-45.18
157.07	S	-62.03	-62.19	1.43	-1.26	-13.00	-49.03
550.89	S	-61.28	-65.74	6.72	-2.26	-13.00	-48.28
629.46	S	-65.90	-69.69	6.23	-2.44	-13.00	-52.90
871.96	S	-61.71	-64.85	6.01	-2.88	-13.00	-48.71
946.65	S	-58.75	-61.48	5.78	-3.05	-13.00	-45.75
3702.50	H	-45.12	-46.29	7.40	-6.24	-13.00	-32.12
5553.75	H	-43.93	-45.12	8.99	-7.80	-13.00	-30.93
7405.00	H	---					
7476.00	S	-40.97	-42.23	10.41	-9.15	-13.00	-27.97
9256.25	H	-37.12	-38.42	11.69	-10.40	-13.00	-24.12
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 25	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1851.25 MHz	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	: HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
103.72	S	-59.23	-59.29	1.13	-1.07	-13.00	-46.23
157.07	S	-66.47	-66.63	1.43	-1.26	-13.00	-53.47
239.52	S	-70.02	-75.04	6.55	-1.53	-13.00	-57.02
550.89	S	-64.00	-68.46	6.72	-2.26	-13.00	-51.00
871.96	S	-62.00	-65.14	6.01	-2.88	-13.00	-49.00
946.65	S	-60.04	-62.77	5.78	-3.05	-13.00	-47.04
3702.50	H	-48.09	-48.75	6.90	-6.24	-13.00	-35.09
5553.75	H	-45.85	-46.32	8.28	-7.80	-13.00	-32.85
7405.00	H	---					
7464.00	S	-41.59	-42.11	9.64	-9.12	-13.00	-28.59
9256.25	H	-39.89	-40.25	10.75	-10.40	-13.00	-26.89
11107.50	H	---					
12958.75	H	---					
14810.00	H	---					
16661.25	H	---					
18512.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 600	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1880.00 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
39.70	S	-62.45	-50.27	-11.30	-0.88	-13.00	-49.45
103.72	S	-58.39	-58.45	1.13	-1.07	-13.00	-45.39
157.07	S	-62.24	-62.41	1.43	-1.26	-13.00	-49.24
550.89	S	-61.47	-65.92	6.72	-2.26	-13.00	-48.47
871.96	S	-61.00	-64.13	6.01	-2.88	-13.00	-48.00
946.65	S	-59.38	-62.11	5.78	-3.05	-13.00	-46.38
3760.00	H	-47.83	-48.93	7.42	-6.32	-13.00	-34.83
5640.00	H	-45.00	-46.12	9.01	-7.89	-13.00	-32.00
7464.00	S	-40.36	-41.63	10.40	-9.12	-13.00	-27.36
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 600	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1880.00 MHz	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
41.64	S	-61.79	-49.96	-10.95	-0.88	-13.00	-48.79
103.72	S	-59.54	-59.60	1.13	-1.07	-13.00	-46.54
157.07	S	-66.46	-66.62	1.43	-1.26	-13.00	-53.46
550.89	S	-63.82	-68.28	6.72	-2.26	-13.00	-50.82
871.96	S	-61.58	-64.71	6.01	-2.88	-13.00	-48.58
946.65	S	-61.21	-63.94	5.78	-3.05	-13.00	-48.21
3760.00	H	-50.85	-51.38	6.85	-6.32	-13.00	-37.85
5640.00	H	-45.45	-45.86	8.30	-7.89	-13.00	-32.45
7464.00	S	-40.65	-41.16	9.64	-9.12	-13.00	-27.65
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 1175	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
103.72	S	-58.40	-58.46	1.13	-1.07	-13.00	-45.40
157.07	S	-61.83	-61.99	1.43	-1.26	-13.00	-48.83
335.55	S	-70.84	-75.88	6.84	-1.80	-13.00	-57.84
550.89	S	-61.44	-65.90	6.72	-2.26	-13.00	-48.44
902.03	S	-54.14	-56.99	5.80	-2.94	-13.00	-41.14
946.65	S	-58.95	-61.69	5.78	-3.05	-13.00	-45.95
3817.50	H	-40.71	-41.84	7.50	-6.38	-13.00	-27.71
5726.25	H	-43.55	-44.66	9.03	-7.92	-13.00	-30.55
7464.00	S	-41.18	-42.45	10.40	-9.12	-13.00	-28.18
7635.00	H	-39.23	-40.34	10.47	-9.36	-13.00	-26.23
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2012-12-24
ARFCN	:CH 1175	Temp./Humi.	:21.8deg_C/58RH
Fundamental Frequency	:1908.75 MHz	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
103.72	S	-59.32	-59.38	1.13	-1.07	-13.00	-46.32
157.07	S	-64.83	-65.00	1.43	-1.26	-13.00	-51.83
550.89	S	-64.21	-68.67	6.72	-2.26	-13.00	-51.21
629.46	S	-68.99	-72.79	6.23	-2.44	-13.00	-55.99
872.93	S	-61.66	-64.78	6.00	-2.88	-13.00	-48.66
949.56	S	-61.53	-64.25	5.78	-3.06	-13.00	-48.53
3817.50	H	-47.36	-48.01	7.03	-6.38	-13.00	-34.36
5726.25	H	-48.58	-48.98	8.32	-7.92	-13.00	-35.58
7464.00	S	-41.55	-42.07	9.64	-9.12	-13.00	-28.55
7635.00	H	---					
9543.75	H	---					
11452.50	H	---					
13361.25	H	---					
15270.00	H	---					
17178.75	H	---					
19087.50	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

(First Antenna)

Operation Band	:GPRS 850	Test Date	:2013-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.57	-14.33	35.24	40.00	-4.76
66.86	S	Peak	48.10	-15.89	32.21	40.00	-7.79
154.16	S	Peak	38.32	-12.30	26.02	43.50	-17.48
343.31	S	Peak	29.95	-11.76	18.19	46.00	-27.81
542.16	S	Peak	29.64	-8.74	20.90	46.00	-25.10
859.35	S	Peak	27.28	-3.54	23.74	46.00	-22.26
1648.40	S	Peak	38.65	-1.68	36.97	54.00	-17.03
2472.60	S	---					
3296.80	S	---					
4121.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2013-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	35.09	-16.05	19.04	40.00	-20.96
181.32	S	Peak	45.36	-14.68	30.68	43.50	-12.82
339.43	S	Peak	32.09	-11.82	20.27	46.00	-25.73
549.92	S	Peak	31.07	-8.58	22.49	46.00	-23.51
778.84	S	Peak	27.62	-4.48	23.14	46.00	-22.86
869.05	S	Peak	27.06	-3.40	23.66	46.00	-22.34
1648.40	S	Peak	38.49	-0.96	37.53	54.00	-16.47
2472.60	S	---					
3296.80	S	---					
4121.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.58	-14.33	35.25	40.00	-4.75
66.86	S	Peak	48.70	-15.89	32.81	40.00	-7.19
156.10	S	Peak	37.93	-12.30	25.63	43.50	-17.87
343.31	S	Peak	28.20	-11.76	16.44	46.00	-29.56
542.16	S	Peak	29.48	-8.74	20.74	46.00	-25.26
881.66	S	Peak	27.26	-3.17	24.09	46.00	-21.91
1673.20	S	Peak	39.99	-1.38	38.61	54.00	-15.39
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.66	-15.89	18.77	40.00	-21.23
181.32	S	Peak	45.22	-14.68	30.54	43.50	-12.96
339.43	S	Peak	30.76	-11.82	18.94	46.00	-27.06
547.98	S	Peak	31.37	-8.61	22.76	46.00	-23.24
745.86	S	Peak	27.72	-5.03	22.69	46.00	-23.31
892.33	S	Peak	26.79	-2.97	23.82	46.00	-22.18
1673.20	S	Peak	38.45	-0.59	37.86	54.00	-16.14
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2013-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.57	-14.33	35.24	40.00	-4.76
67.83	S	Peak	49.02	-16.05	32.97	40.00	-7.03
155.13	S	Peak	37.48	-12.30	25.18	43.50	-18.32
397.63	S	Peak	27.49	-11.09	16.40	46.00	-29.60
600.36	S	Peak	27.98	-7.55	20.43	46.00	-25.57
827.34	S	Peak	28.72	-3.90	24.82	46.00	-21.18
1697.60	S	Peak	38.35	-1.08	37.27	54.00	-16.73
2546.40	S	---					
3395.20	S	---					
4244.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 850	Test Date	:2013-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.24	-15.89	18.35	40.00	-21.65
181.32	S	Peak	45.09	-14.68	30.41	43.50	-13.09
338.46	S	Peak	31.32	-11.83	19.49	46.00	-26.51
553.80	S	Peak	30.84	-8.51	22.33	46.00	-23.67
793.39	S	Peak	26.63	-4.28	22.35	46.00	-23.65
899.12	S	Peak	26.78	-2.83	23.95	46.00	-22.05
1697.60	S	Peak	38.12	-0.23	37.89	54.00	-16.11
2546.40	S	---					
3395.20	S	---					
4244.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Band	:EDGE 1900	Test Date	:2013-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.67	-14.33	35.34	40.00	-4.66
66.86	S	Peak	48.56	-15.89	32.67	40.00	-7.33
156.10	S	Peak	37.68	-12.30	25.38	43.50	-18.12
397.63	S	Peak	28.52	-11.09	17.43	46.00	-28.57
555.74	S	Peak	29.09	-8.47	20.62	46.00	-25.38
880.69	S	Peak	27.51	-3.19	24.32	46.00	-21.68
3700.40	S	Peak	36.24	5.18	41.42	54.00	-12.58
5550.60	S	---					
7400.80	S	Peak	34.41	10.62	45.03	54.00	-8.97
9251.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2013-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.14	-15.89	18.25	40.00	-21.75
181.32	S	Peak	45.58	-14.68	30.90	43.50	-12.60
337.49	S	Peak	31.34	-11.83	19.51	46.00	-26.49
547.98	S	Peak	31.43	-8.61	22.82	46.00	-23.18
650.80	S	Peak	28.82	-6.57	22.25	46.00	-23.75
858.38	S	Peak	27.44	-3.56	23.88	46.00	-22.12
3700.40	S	Peak	37.99	5.12	43.11	54.00	-10.89
5550.60	S	---					
7400.80	S	Peak	34.18	10.30	44.48	54.00	-9.52
9251.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.77	-14.33	35.44	40.00	-4.56
67.83	S	Peak	49.12	-16.05	33.07	40.00	-6.93
156.10	S	Peak	37.80	-12.30	25.50	43.50	-18.00
343.31	S	Peak	28.43	-11.76	16.67	46.00	-29.33
532.46	S	Peak	29.05	-8.95	20.10	46.00	-25.90
863.23	S	Peak	27.65	-3.48	24.17	46.00	-21.83
3760.00	S	Peak	36.33	5.53	41.86	54.00	-12.14
5640.00	S	---					
7520.00	S	Peak	34.25	10.90	45.15	54.00	-8.85
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	35.51	-15.89	19.62	40.00	-20.38
181.32	S	Peak	45.50	-14.68	30.82	43.50	-12.68
338.46	S	Peak	30.57	-11.83	18.74	46.00	-27.26
546.04	S	Peak	31.16	-8.65	22.51	46.00	-23.49
794.36	S	Peak	26.95	-4.27	22.68	46.00	-23.32
889.42	S	Peak	28.43	-3.02	25.41	46.00	-20.59
3760.00	S	Peak	36.58	5.54	42.12	54.00	-11.88
5640.00	S	---					
7520.00	S	Peak	35.16	10.57	45.73	54.00	-8.27
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:EDGE 1900	Test Date	:2013-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.48	-14.33	35.15	40.00	-4.85
66.86	S	Peak	48.93	-15.89	33.04	40.00	-6.96
156.10	S	Peak	37.55	-12.30	25.25	43.50	-18.25
343.31	S	Peak	28.69	-11.76	16.93	46.00	-29.07
534.40	S	Peak	28.96	-8.91	20.05	46.00	-25.95
870.02	S	Peak	27.16	-3.39	23.77	46.00	-22.23
3819.60	S	Peak	36.74	5.34	42.08	54.00	-11.92
5729.40	S	---					
7639.20	S	Peak	35.09	11.06	46.15	54.00	-7.85
9549.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 1900	Test Date	:2013-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.80	-15.89	18.91	40.00	-21.09
181.32	S	Peak	45.72	-14.68	31.04	43.50	-12.46
339.43	S	Peak	31.38	-11.82	19.56	46.00	-26.44
539.25	S	Peak	31.15	-8.79	22.36	46.00	-23.64
672.14	S	Peak	28.51	-6.16	22.35	46.00	-23.65
896.21	S	Peak	27.13	-2.90	24.23	46.00	-21.77
3819.60	S	Peak	36.83	5.40	42.23	54.00	-11.77
5729.40	S	---					
7639.20	S	Peak	35.68	10.80	46.48	54.00	-7.52
9549.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band	:HSUPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.86	-14.33	35.53	40.00	-4.47
66.86	S	Peak	48.14	-15.89	32.25	40.00	-7.75
155.13	S	Peak	37.24	-12.30	24.94	43.50	-18.56
343.31	S	Peak	29.33	-11.76	17.57	46.00	-28.43
539.25	S	Peak	28.85	-8.79	20.06	46.00	-25.94
861.29	S	Peak	27.47	-3.50	23.97	46.00	-22.03
3704.80	S	Peak	36.87	5.22	42.09	54.00	-11.91
5557.20	S	---					
7409.60	S	Peak	33.91	10.59	44.50	54.00	-9.50
9262.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.04	-15.89	18.15	40.00	-21.85
181.32	S	Peak	45.36	-14.68	30.68	43.50	-12.82
338.46	S	Peak	30.94	-11.83	19.11	46.00	-26.89
547.01	S	Peak	31.27	-8.63	22.64	46.00	-23.36
741.98	S	Peak	27.73	-5.10	22.63	46.00	-23.37
853.53	S	Peak	27.35	-3.64	23.71	46.00	-22.29
3704.80	S	Peak	37.18	5.17	42.35	54.00	-11.65
5557.20	S	---					
7409.60	S	Peak	34.30	10.27	44.57	54.00	-9.43
9262.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.87	-14.33	35.54	40.00	-4.46
67.83	S	Peak	48.16	-16.05	32.11	40.00	-7.89
154.16	S	Peak	37.69	-12.30	25.39	43.50	-18.11
343.31	S	Peak	28.51	-11.76	16.75	46.00	-29.25
529.55	S	Peak	29.15	-9.00	20.15	46.00	-25.85
855.47	S	Peak	27.28	-3.60	23.68	46.00	-22.32
3760.00	S	Peak	38.24	5.53	43.77	54.00	-10.23
5640.00	S	---					
7520.00	S	Peak	35.17	10.90	46.07	54.00	-7.93
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	36.03	-16.05	19.98	40.00	-20.02
181.32	S	Peak	44.73	-14.68	30.05	43.50	-13.45
339.43	S	Peak	30.80	-11.82	18.98	46.00	-27.02
534.40	S	Peak	32.14	-8.91	23.23	46.00	-22.77
773.99	S	Peak	27.59	-4.55	23.04	46.00	-22.96
898.15	S	Peak	26.36	-2.85	23.51	46.00	-22.49
3760.00	S	Peak	35.87	5.54	41.41	54.00	-12.59
5640.00	S	---					
7520.00	S	Peak	36.18	10.57	46.75	54.00	-7.25
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:HSUPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.80	-14.33	35.47	40.00	-4.53
66.86	S	Peak	48.77	-15.89	32.88	40.00	-7.12
155.13	S	Peak	37.63	-12.30	25.33	43.50	-18.17
343.31	S	Peak	27.48	-11.76	15.72	46.00	-30.28
534.40	S	Peak	29.50	-8.91	20.59	46.00	-25.41
824.43	S	Peak	27.69	-3.92	23.77	46.00	-22.23
3815.20	S	Peak	36.06	5.32	41.38	54.00	-12.62
5722.80	S	---					
7630.40	S	Peak	34.41	11.06	45.47	54.00	-8.53
9538.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	35.03	-15.89	19.14	40.00	-20.86
181.32	S	Peak	45.37	-14.68	30.69	43.50	-12.81
340.40	S	Peak	30.56	-11.81	18.75	46.00	-27.25
547.98	S	Peak	31.21	-8.61	22.60	46.00	-23.40
784.66	S	Peak	26.45	-4.40	22.05	46.00	-23.95
864.20	S	Peak	27.33	-3.47	23.86	46.00	-22.14
3815.20	S	Peak	37.83	5.37	43.20	54.00	-10.80
5722.80	S	---					
7630.40	S	Peak	35.28	10.79	46.07	54.00	-7.93
9538.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: HSUPA IV Mode

Operation Band	:HSUPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.93	-14.33	35.60	40.00	-4.40
67.83	S	Peak	48.26	-16.05	32.21	40.00	-7.79
156.10	S	Peak	38.06	-12.30	25.76	43.50	-17.74
343.31	S	Peak	28.11	-11.76	16.35	46.00	-29.65
554.77	S	Peak	28.73	-8.50	20.23	46.00	-25.77
835.10	S	Peak	27.61	-3.84	23.77	46.00	-22.23
3424.80	S	Peak	37.52	4.20	41.72	54.00	-12.28
5137.20	S	---					
6849.60	S	Peak	34.28	10.69	44.97	54.00	-9.03
8562.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	35.17	-15.89	19.28	40.00	-20.72
181.32	S	Peak	44.91	-14.68	30.23	43.50	-13.27
339.43	S	Peak	31.15	-11.82	19.33	46.00	-26.67
535.37	S	Peak	31.79	-8.89	22.90	46.00	-23.10
716.76	S	Peak	28.38	-5.48	22.90	46.00	-23.10
899.12	S	Peak	26.40	-2.83	23.57	46.00	-22.43
3424.80	S	Peak	36.93	4.08	41.01	54.00	-12.99
5137.20	S	---					
6849.60	S	Peak	35.08	10.13	45.21	54.00	-8.79
8562.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.82	-14.33	35.49	40.00	-4.51
67.83	S	Peak	48.43	-16.05	32.38	40.00	-7.62
154.16	S	Peak	37.56	-12.30	25.26	43.50	-18.24
385.99	S	Peak	27.36	-11.20	16.16	46.00	-29.84
541.19	S	Peak	28.94	-8.76	20.18	46.00	-25.82
862.26	S	Peak	28.20	-3.49	24.71	46.00	-21.29
3465.20	S	Peak	36.39	4.85	41.24	54.00	-12.76
5197.80	S	---					
6930.40	S	Peak	34.85	10.72	45.57	54.00	-8.43
8663.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.32	-16.05	18.27	40.00	-21.73
181.32	S	Peak	44.89	-14.68	30.21	43.50	-13.29
341.37	S	Peak	31.27	-11.79	19.48	46.00	-26.52
548.95	S	Peak	31.28	-8.60	22.68	46.00	-23.32
729.37	S	Peak	28.26	-5.30	22.96	46.00	-23.04
854.50	S	Peak	27.27	-3.62	23.65	46.00	-22.35
3465.20	S	Peak	36.67	4.64	41.31	54.00	-12.69
5197.80	S	---					
6930.40	S	Peak	34.74	10.19	44.93	54.00	-9.07
8663.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.67	-14.33	35.34	40.00	-4.66
67.83	S	Peak	48.47	-16.05	32.42	40.00	-7.58
156.10	S	Peak	37.52	-12.30	25.22	43.50	-18.28
375.32	S	Peak	27.88	-11.34	16.54	46.00	-29.46
553.80	S	Peak	28.77	-8.51	20.26	46.00	-25.74
866.14	S	Peak	27.59	-3.44	24.15	46.00	-21.85
3505.20	S	Peak	36.95	5.00	41.95	54.00	-12.05
5257.80	S	---					
7010.40	S	Peak	36.00	10.33	46.33	54.00	-7.67
8763.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.43	-16.05	18.38	40.00	-21.62
181.32	S	Peak	44.74	-14.68	30.06	43.50	-13.44
341.37	S	Peak	30.52	-11.79	18.73	46.00	-27.27
548.95	S	Peak	31.50	-8.60	22.90	46.00	-23.10
786.60	S	Peak	27.17	-4.38	22.79	46.00	-23.21
860.32	S	Peak	26.74	-3.52	23.22	46.00	-22.78
3505.20	S	Peak	35.89	4.71	40.60	54.00	-13.40
5257.80	S	---					
7010.40	S	Peak	35.83	9.83	45.66	54.00	-8.34
8763.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band	:HSDPA B5	Test Date	:2013-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.98	-14.33	35.65	40.00	-4.35
66.86	S	Peak	48.59	-15.89	32.70	40.00	-7.30
154.16	S	Peak	37.51	-12.30	25.21	43.50	-18.29
391.81	S	Peak	27.24	-11.15	16.09	46.00	-29.91
526.64	S	Peak	29.68	-9.05	20.63	46.00	-25.37
898.15	S	Peak	26.64	-2.85	23.79	46.00	-22.21
1652.80	S	Peak	38.13	-1.62	36.51	54.00	-17.49
2479.20	S	---					
3305.60	S	---					
4132.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2013-03-02
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	: HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.38	-16.05	18.33	40.00	-21.67
181.32	S	Peak	44.94	-14.68	30.26	43.50	-13.24
337.49	S	Peak	31.21	-11.83	19.38	46.00	-26.62
548.95	S	Peak	32.04	-8.60	23.44	46.00	-22.56
799.21	S	Peak	26.62	-4.21	22.41	46.00	-23.59
821.52	S	Peak	27.05	-3.95	23.10	46.00	-22.90
1652.80	S	Peak	38.95	-0.89	38.06	54.00	-15.94
2479.20	S	---					
3305.60	S	---					
4132.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.88	-14.33	35.55	40.00	-4.45
66.86	S	Peak	48.69	-15.89	32.80	40.00	-7.20
155.13	S	Peak	37.36	-12.30	25.06	43.50	-18.44
343.31	S	Peak	28.40	-11.76	16.64	46.00	-29.36
548.95	S	Peak	29.54	-8.60	20.94	46.00	-25.06
864.20	S	Peak	27.93	-3.47	24.46	46.00	-21.54
1673.20	S	Peak	38.44	-1.38	37.06	54.00	-16.94
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.97	-16.05	18.92	40.00	-21.08
181.32	S	Peak	44.88	-14.68	30.20	43.50	-13.30
334.58	S	Peak	30.77	-11.87	18.90	46.00	-27.10
535.37	S	Peak	31.84	-8.89	22.95	46.00	-23.05
774.96	S	Peak	26.60	-4.54	22.06	46.00	-23.94
817.64	S	Peak	28.66	-4.00	24.66	46.00	-21.34
1673.20	S	Peak	38.61	-0.59	38.02	54.00	-15.98
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2013-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.74	-14.33	35.41	40.00	-4.59
67.83	S	Peak	48.09	-16.05	32.04	40.00	-7.96
155.13	S	Peak	37.40	-12.30	25.10	43.50	-18.40
343.31	S	Peak	27.67	-11.76	15.91	46.00	-30.09
541.19	S	Peak	29.11	-8.76	20.35	46.00	-25.65
861.29	S	Peak	27.96	-3.50	24.46	46.00	-21.54
1693.20	S	Peak	37.29	-1.14	36.15	54.00	-17.85
2539.80	S	---					
3386.40	S	---					
4233.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2013-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.62	-15.89	18.73	40.00	-21.27
181.32	S	Peak	45.00	-14.68	30.32	43.50	-13.18
339.43	S	Peak	31.25	-11.82	19.43	46.00	-26.57
539.25	S	Peak	31.86	-8.79	23.07	46.00	-22.93
782.72	S	Peak	27.10	-4.42	22.68	46.00	-23.32
820.55	S	Peak	27.77	-3.96	23.81	46.00	-22.19
1693.20	S	Peak	39.59	-0.30	39.29	54.00	-14.71
2539.80	S	---					
3386.40	S	---					
4233.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 Cellular Mode

Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:824.7 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.61	-14.33	35.28	40.00	-4.72
67.83	S	Peak	48.92	-16.05	32.87	40.00	-7.13
155.13	S	Peak	37.80	-12.30	25.50	43.50	-18.00
343.31	S	Peak	28.11	-11.76	16.35	46.00	-29.65
547.98	S	Peak	29.12	-8.61	20.51	46.00	-25.49
864.20	S	Peak	27.43	-3.47	23.96	46.00	-22.04
1649.40	S	Peak	39.52	-1.67	37.85	54.00	-16.15
2474.10	S	---					
3298.80	S	---					
4123.50	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:824.7 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
180.35	S	Peak	44.49	-14.58	29.91	43.50	-13.59
343.31	S	Peak	30.98	-11.76	19.22	46.00	-26.78
548.95	S	Peak	31.23	-8.60	22.63	46.00	-23.37
646.92	S	Peak	28.85	-6.65	22.20	46.00	-23.80
759.44	S	Peak	27.24	-4.81	22.43	46.00	-23.57
915.61	S	Peak	27.35	-2.51	24.84	46.00	-21.16
1649.40	S	Peak	39.18	-0.95	38.23	54.00	-15.77
2474.10	S	---					
3298.80	S	---					
4123.50	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:836.52 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.52	-14.33	35.19	40.00	-4.81
66.86	S	Peak	49.15	-15.89	33.26	40.00	-6.74
155.13	S	Peak	37.90	-12.30	25.60	43.50	-17.90
343.31	S	Peak	28.40	-11.76	16.64	46.00	-29.36
534.40	S	Peak	28.99	-8.91	20.08	46.00	-25.92
870.02	S	Peak	27.77	-3.39	24.38	46.00	-21.62
1673.04	S	Peak	39.78	-1.38	38.40	54.00	-15.60
2509.56	S	---					
3346.08	S	---					
4182.60	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:836.52 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
180.35	S	Peak	44.93	-14.58	30.35	43.50	-13.15
337.49	S	Peak	31.09	-11.83	19.26	46.00	-26.74
512.09	S	Peak	31.41	-9.36	22.05	46.00	-23.95
656.62	S	Peak	28.21	-6.46	21.75	46.00	-24.25
783.69	S	Peak	27.38	-4.40	22.98	46.00	-23.02
915.61	S	Peak	27.81	-2.51	25.30	46.00	-20.70
1673.04	S	Peak	38.07	-0.60	37.47	54.00	-16.53
2509.56	S	---					
3346.08	S	---					
4182.60	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:848.31 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.53	-14.33	35.20	40.00	-4.80
66.86	S	Peak	49.41	-15.89	33.52	40.00	-6.48
155.13	S	Peak	38.10	-12.30	25.80	43.50	-17.70
343.31	S	Peak	27.88	-11.76	16.12	46.00	-29.88
547.01	S	Peak	28.42	-8.63	19.79	46.00	-26.21
859.35	S	Peak	27.55	-3.54	24.01	46.00	-21.99
1696.62	S	Peak	38.09	-1.14	36.95	54.00	-17.05
2544.93	S	---					
3393.24	S	---					
4241.55	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:848.31 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
181.32	S	Peak	44.73	-14.68	30.05	43.50	-13.45
337.49	S	Peak	31.27	-11.83	19.44	46.00	-26.56
519.85	S	Peak	30.61	-9.22	21.39	46.00	-24.61
659.53	S	Peak	27.76	-6.39	21.37	46.00	-24.63
794.36	S	Peak	26.78	-4.27	22.51	46.00	-23.49
921.43	S	Peak	26.40	-2.39	24.01	46.00	-21.99
1696.62	S	Peak	39.33	-0.30	39.03	54.00	-14.97
2544.93	S	---					
3393.24	S	---					
4241.55	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 PCS Mode

Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1851.25 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.77	-14.33	35.44	40.00	-4.56
67.83	S	Peak	48.13	-16.05	32.08	40.00	-7.92
155.13	S	Peak	37.75	-12.30	25.45	43.50	-18.05
377.26	S	Peak	28.08	-11.32	16.76	46.00	-29.24
549.92	S	Peak	29.38	-8.58	20.80	46.00	-25.20
865.17	S	Peak	27.92	-3.45	24.47	46.00	-21.53
3702.50	S	Peak	36.03	5.20	41.23	54.00	-12.77
5553.75	S	---					
7405.00	S	Peak	34.17	10.61	44.78	54.00	-9.22
9256.25	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1851.25 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.80	-15.89	18.91	40.00	-21.09
184.23	S	Peak	44.42	-15.00	29.42	43.50	-14.08
345.25	S	Peak	30.66	-11.73	18.93	46.00	-27.07
548.95	S	Peak	31.38	-8.60	22.78	46.00	-23.22
758.47	S	Peak	27.63	-4.83	22.80	46.00	-23.20
817.64	S	Peak	27.32	-4.00	23.32	46.00	-22.68
3702.50	S	Peak	36.74	5.14	41.88	54.00	-12.12
5553.75	S	---					
7405.00	S	Peak	34.65	10.28	44.93	54.00	-9.07
9256.25	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.75	-14.33	35.42	40.00	-4.58
66.86	S	Peak	48.72	-15.89	32.83	40.00	-7.17
155.13	S	Peak	38.51	-12.30	26.21	43.50	-17.29
343.31	S	Peak	28.41	-11.76	16.65	46.00	-29.35
532.46	S	Peak	30.22	-8.95	21.27	46.00	-24.73
869.05	S	Peak	27.75	-3.40	24.35	46.00	-21.65
3760.00	S	Peak	36.49	5.53	42.02	54.00	-11.98
5640.00	S	---					
7520.00	S	Peak	34.30	10.90	45.20	54.00	-8.80
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.94	-15.89	19.05	40.00	-20.95
181.32	S	Peak	44.52	-14.68	29.84	43.50	-13.66
339.43	S	Peak	30.90	-11.82	19.08	46.00	-26.92
547.98	S	Peak	31.00	-8.61	22.39	46.00	-23.61
768.17	S	Peak	27.35	-4.65	22.70	46.00	-23.30
882.63	S	Peak	26.42	-3.15	23.27	46.00	-22.73
3760.00	S	Peak	36.19	5.54	41.73	54.00	-12.27
5640.00	S	---					
7520.00	S	Peak	36.47	10.57	47.04	54.00	-6.96
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1908.75 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.75	-14.33	35.42	40.00	-4.58
66.86	S	Peak	49.24	-15.89	33.35	40.00	-6.65
156.10	S	Peak	37.48	-12.30	25.18	43.50	-18.32
385.02	S	Peak	27.59	-11.22	16.37	46.00	-29.63
540.22	S	Peak	29.14	-8.78	20.36	46.00	-25.64
869.05	S	Peak	27.39	-3.40	23.99	46.00	-22.01
3817.50	S	Peak	36.19	5.34	41.53	54.00	-12.47
5726.25	S	---					
7635.00	S	Peak	34.61	11.05	45.66	54.00	-8.34
9543.75	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1908.75 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	35.02	-16.05	18.97	40.00	-21.03
181.32	S	Peak	44.71	-14.68	30.03	43.50	-13.47
338.46	S	Peak	30.88	-11.83	19.05	46.00	-26.95
518.88	S	Peak	32.15	-9.24	22.91	46.00	-23.09
758.47	S	Peak	27.44	-4.83	22.61	46.00	-23.39
888.45	S	Peak	26.64	-3.04	23.60	46.00	-22.40
3817.50	S	Peak	36.73	5.39	42.12	54.00	-11.88
5726.25	S	---					
7635.00	S	Peak	34.12	10.79	44.91	54.00	-9.09
9543.75	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

(Second Antenna)

Operation Band	:EDGE 850	Test Date	:2013-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.85	-14.33	35.52	40.00	-4.48
66.86	S	Peak	48.79	-15.89	32.90	40.00	-7.10
156.10	S	Peak	37.49	-12.30	25.19	43.50	-18.31
343.31	S	Peak	28.77	-11.76	17.01	46.00	-28.99
541.19	S	Peak	28.76	-8.76	20.00	46.00	-26.00
824.43	S	Peak	28.00	-3.92	24.08	46.00	-21.92
1648.40	S	Peak	39.09	-1.68	37.41	54.00	-16.59
2472.60	S	---					
3296.80	S	---					
4121.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2013-03-02
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	35.02	-16.05	18.97	40.00	-21.03
181.32	S	Peak	45.75	-14.68	31.07	43.50	-12.43
336.52	S	Peak	30.78	-11.83	18.95	46.00	-27.05
548.95	S	Peak	31.07	-8.60	22.47	46.00	-23.53
737.13	S	Peak	26.98	-5.17	21.81	46.00	-24.19
846.74	S	Peak	26.93	-3.72	23.21	46.00	-22.79
1648.40	S	Peak	38.63	-0.96	37.67	54.00	-16.33
2472.60	S	---					
3296.80	S	---					
4121.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.08	-14.33	35.75	40.00	-4.25
67.83	S	Peak	48.28	-16.05	32.23	40.00	-7.77
155.13	S	Peak	37.42	-12.30	25.12	43.50	-18.38
382.11	S	Peak	27.52	-11.26	16.26	46.00	-29.74
540.22	S	Peak	29.04	-8.78	20.26	46.00	-25.74
870.99	S	Peak	27.60	-3.36	24.24	46.00	-21.76
1673.20	S	Peak	38.84	-1.38	37.46	54.00	-16.54
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.57	-15.89	18.68	40.00	-21.32
181.32	S	Peak	45.56	-14.68	30.88	43.50	-12.62
339.43	S	Peak	30.92	-11.82	19.10	46.00	-26.90
541.19	S	Peak	31.37	-8.76	22.61	46.00	-23.39
647.89	S	Peak	28.64	-6.64	22.00	46.00	-24.00
894.27	S	Peak	26.89	-2.93	23.96	46.00	-22.04
1673.20	S	Peak	40.09	-0.59	39.50	54.00	-14.50
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2013-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.10	-14.33	35.77	40.00	-4.23
67.83	S	Peak	48.60	-16.05	32.55	40.00	-7.45
156.10	S	Peak	37.70	-12.30	25.40	43.50	-18.10
343.31	S	Peak	28.33	-11.76	16.57	46.00	-29.43
539.25	S	Peak	28.62	-8.79	19.83	46.00	-26.17
863.23	S	Peak	27.72	-3.48	24.24	46.00	-21.76
1697.60	S	Peak	38.82	-1.08	37.74	54.00	-16.26
2546.40	S	---					
3395.20	S	---					
4244.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:EDGE 850	Test Date	:2013-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	35.44	-15.89	19.55	40.00	-20.45
181.32	S	Peak	45.58	-14.68	30.90	43.50	-12.60
339.43	S	Peak	30.42	-11.82	18.60	46.00	-27.40
547.01	S	Peak	30.98	-8.63	22.35	46.00	-23.65
741.98	S	Peak	28.87	-5.10	23.77	46.00	-22.23
859.35	S	Peak	27.76	-3.54	24.22	46.00	-21.78
1697.60	S	Peak	38.59	-0.23	38.36	54.00	-15.64
2546.40	S	---					
3395.20	S	---					
4244.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Band	:GPRS 1900	Test Date	:2013-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.95	-14.33	35.62	40.00	-4.38
66.86	S	Peak	48.57	-15.89	32.68	40.00	-7.32
156.10	S	Peak	37.18	-12.30	24.88	43.50	-18.62
388.90	S	Peak	28.00	-11.17	16.83	46.00	-29.17
539.25	S	Peak	29.73	-8.79	20.94	46.00	-25.06
862.26	S	Peak	27.59	-3.49	24.10	46.00	-21.90
3700.40	S	Peak	36.49	5.18	41.67	54.00	-12.33
5550.60	S	---					
7400.80	S	Peak	35.15	10.62	45.77	54.00	-8.23
9251.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band GPRS Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2013-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	35.27	-16.05	19.22	40.00	-20.78
181.32	S	Peak	45.14	-14.68	30.46	43.50	-13.04
338.46	S	Peak	30.64	-11.83	18.81	46.00	-27.19
554.77	S	Peak	31.64	-8.50	23.14	46.00	-22.86
724.52	S	Peak	28.07	-5.37	22.70	46.00	-23.30
889.42	S	Peak	26.23	-3.02	23.21	46.00	-22.79
3700.40	S	Peak	37.64	5.12	42.76	54.00	-11.24
5550.60	S	---					
7400.80	S	Peak	34.86	10.30	45.16	54.00	-8.84
9251.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band GPRS Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.08	-14.33	35.75	40.00	-4.25
66.86	S	Peak	48.85	-15.89	32.96	40.00	-7.04
156.10	S	Peak	37.90	-12.30	25.60	43.50	-17.90
343.31	S	Peak	28.55	-11.76	16.79	46.00	-29.21
527.61	S	Peak	29.59	-9.03	20.56	46.00	-25.44
837.04	S	Peak	28.10	-3.82	24.28	46.00	-21.72
3760.00	S	Peak	36.50	5.53	42.03	54.00	-11.97
5640.00	S	---					
7520.00	S	Peak	35.60	10.90	46.50	54.00	-7.50
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band GPRS Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.21	-15.89	18.32	40.00	-21.68
181.32	S	Peak	44.96	-14.68	30.28	43.50	-13.22
338.46	S	Peak	31.38	-11.83	19.55	46.00	-26.45
547.98	S	Peak	31.20	-8.61	22.59	46.00	-23.41
746.83	S	Peak	27.21	-5.02	22.19	46.00	-23.81
900.09	S	Peak	26.14	-2.82	23.32	46.00	-22.68
3760.00	S	Peak	36.35	5.54	41.89	54.00	-12.11
5640.00	S	---					
7520.00	S	Peak	34.75	10.57	45.32	54.00	-8.68
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band GPRS Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2013-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.97	-14.33	35.64	40.00	-4.36
67.83	S	Peak	48.28	-16.05	32.23	40.00	-7.77
156.10	S	Peak	37.55	-12.30	25.25	43.50	-18.25
343.31	S	Peak	28.78	-11.76	17.02	46.00	-28.98
527.61	S	Peak	29.07	-9.03	20.04	46.00	-25.96
832.19	S	Peak	28.69	-3.86	24.83	46.00	-21.17
3819.60	S	Peak	36.54	5.34	41.88	54.00	-12.12
5729.40	S	---					
7639.20	S	Peak	34.69	11.06	45.75	54.00	-8.25
9549.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band GPRS Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2013-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.39	-16.05	18.34	40.00	-21.66
181.32	S	Peak	45.39	-14.68	30.71	43.50	-12.79
339.43	S	Peak	30.60	-11.82	18.78	46.00	-27.22
544.10	S	Peak	30.86	-8.70	22.16	46.00	-23.84
681.84	S	Peak	28.24	-5.99	22.25	46.00	-23.75
866.14	S	Peak	26.81	-3.44	23.37	46.00	-22.63
3819.60	S	Peak	36.52	5.40	41.92	54.00	-12.08
5729.40	S	---					
7639.20	S	Peak	35.00	10.80	45.80	54.00	-8.20
9549.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Band	:HSDPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.87	-14.33	35.54	40.00	-4.46
67.83	S	Peak	48.26	-16.05	32.21	40.00	-7.79
154.16	S	Peak	37.21	-12.30	24.91	43.50	-18.59
382.11	S	Peak	27.98	-11.26	16.72	46.00	-29.28
539.25	S	Peak	28.75	-8.79	19.96	46.00	-26.04
862.26	S	Peak	27.98	-3.49	24.49	46.00	-21.51
3704.80	S	Peak	36.98	5.22	42.20	54.00	-11.80
5557.20	S	---					
7409.60	S	Peak	35.94	10.59	46.53	54.00	-7.47
9262.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
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Operation Band	:HSDPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.87	-16.05	18.82	40.00	-21.18
181.32	S	Peak	45.57	-14.68	30.89	43.50	-12.61
338.46	S	Peak	30.80	-11.83	18.97	46.00	-27.03
548.95	S	Peak	31.75	-8.60	23.15	46.00	-22.85
735.19	S	Peak	27.77	-5.22	22.55	46.00	-23.45
900.09	S	Peak	26.58	-2.82	23.76	46.00	-22.24
3704.80	S	Peak	36.88	5.17	42.05	54.00	-11.95
5557.20	S	---					
7409.60	S	Peak	33.55	10.27	43.82	54.00	-10.18
9262.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.90	-14.33	35.57	40.00	-4.43
67.83	S	Peak	47.77	-16.05	31.72	40.00	-8.28
156.10	S	Peak	37.25	-12.30	24.95	43.50	-18.55
343.31	S	Peak	29.04	-11.76	17.28	46.00	-28.72
541.19	S	Peak	29.43	-8.76	20.67	46.00	-25.33
868.08	S	Peak	27.96	-3.41	24.55	46.00	-21.45
3760.00	S	Peak	36.61	5.53	42.14	54.00	-11.86
5640.00	S	---					
7520.00	S	Peak	35.20	10.90	46.10	54.00	-7.90
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.54	-15.89	18.65	40.00	-21.35
181.32	S	Peak	44.82	-14.68	30.14	43.50	-13.36
338.46	S	Peak	30.55	-11.83	18.72	46.00	-27.28
541.19	S	Peak	31.94	-8.76	23.18	46.00	-22.82
741.98	S	Peak	28.33	-5.10	23.23	46.00	-22.77
857.41	S	Peak	26.89	-3.58	23.31	46.00	-22.69
3760.00	S	Peak	36.50	5.54	42.04	54.00	-11.96
5640.00	S	---					
7520.00	S	Peak	35.35	10.57	45.92	54.00	-8.08
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:HSDPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.04	-14.33	35.71	40.00	-4.29
67.83	S	Peak	48.88	-16.05	32.83	40.00	-7.17
156.10	S	Peak	38.12	-12.30	25.82	43.50	-17.68
384.05	S	Peak	27.62	-11.23	16.39	46.00	-29.61
534.40	S	Peak	29.35	-8.91	20.44	46.00	-25.56
892.33	S	Peak	26.54	-2.97	23.57	46.00	-22.43
3815.20	S	Peak	36.42	5.32	41.74	54.00	-12.26
5722.80	S	---					
7630.40	S	Peak	34.55	11.06	45.61	54.00	-8.39
9538.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2013-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	35.53	-15.89	19.64	40.00	-20.36
181.32	S	Peak	45.35	-14.68	30.67	43.50	-12.83
339.43	S	Peak	30.54	-11.82	18.72	46.00	-27.28
547.01	S	Peak	32.12	-8.63	23.49	46.00	-22.51
729.37	S	Peak	27.52	-5.30	22.22	46.00	-23.78
819.58	S	Peak	28.27	-3.98	24.29	46.00	-21.71
3815.20	S	Peak	35.79	5.37	41.16	54.00	-12.84
5722.80	S	---					
7630.40	S	Peak	34.40	10.79	45.19	54.00	-8.81
9538.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA IV Mode

Operation Band	:HSDPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.74	-14.33	35.41	40.00	-4.59
67.83	S	Peak	48.45	-16.05	32.40	40.00	-7.60
156.10	S	Peak	37.95	-12.30	25.65	43.50	-17.85
343.31	S	Peak	28.96	-11.76	17.20	46.00	-28.80
540.22	S	Peak	29.77	-8.78	20.99	46.00	-25.01
862.26	S	Peak	28.10	-3.49	24.61	46.00	-21.39
3424.80	S	Peak	36.20	4.20	40.40	54.00	-13.60
5137.20	S	---					
6849.60	S	Peak	34.31	10.69	45.00	54.00	-9.00
8562.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.46	-15.89	18.57	40.00	-21.43
182.29	S	Peak	45.50	-14.78	30.72	43.50	-12.78
337.49	S	Peak	30.62	-11.83	18.79	46.00	-27.21
582.90	S	Peak	30.39	-7.92	22.47	46.00	-23.53
727.43	S	Peak	27.18	-5.32	21.86	46.00	-24.14
859.35	S	Peak	27.31	-3.54	23.77	46.00	-22.23
3424.80	S	Peak	36.03	4.08	40.11	54.00	-13.89
5137.20	S	---					
6849.60	S	Peak	34.19	10.13	44.32	54.00	-9.68
8562.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.67	-14.33	35.34	40.00	-4.66
67.83	S	Peak	48.10	-16.05	32.05	40.00	-7.95
155.13	S	Peak	36.87	-12.30	24.57	43.50	-18.93
389.87	S	Peak	27.73	-11.18	16.55	46.00	-29.45
533.43	S	Peak	29.39	-8.92	20.47	46.00	-25.53
821.52	S	Peak	27.98	-3.95	24.03	46.00	-21.97
3465.20	S	Peak	36.08	4.85	40.93	54.00	-13.07
5197.80	S	---					
6930.40	S	Peak	35.17	10.72	45.89	54.00	-8.11
8663.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	33.74	-15.89	17.85	40.00	-22.15
181.32	S	Peak	45.33	-14.68	30.65	43.50	-12.85
337.49	S	Peak	30.93	-11.83	19.10	46.00	-26.90
548.95	S	Peak	31.20	-8.60	22.60	46.00	-23.40
730.34	S	Peak	27.48	-5.29	22.19	46.00	-23.81
865.17	S	Peak	27.54	-3.45	24.09	46.00	-21.91
3465.20	S	Peak	36.49	4.64	41.13	54.00	-12.87
5197.80	S	---					
6930.40	S	Peak	34.92	10.19	45.11	54.00	-8.89
8663.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:HSDPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.84	-14.33	35.51	40.00	-4.49
67.83	S	Peak	48.41	-16.05	32.36	40.00	-7.64
156.10	S	Peak	37.62	-12.30	25.32	43.50	-18.18
378.23	S	Peak	29.03	-11.31	17.72	46.00	-28.28
537.31	S	Peak	30.25	-8.84	21.41	46.00	-24.59
867.11	S	Peak	28.26	-3.43	24.83	46.00	-21.17
3505.20	S	Peak	37.00	5.00	42.00	54.00	-12.00
5257.80	S	---					
7010.40	S	Peak	34.31	10.33	44.64	54.00	-9.36
8763.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2013-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.27	-15.89	18.38	40.00	-21.62
181.32	S	Peak	45.05	-14.68	30.37	43.50	-13.13
340.40	S	Peak	30.72	-11.81	18.91	46.00	-27.09
549.92	S	Peak	31.29	-8.58	22.71	46.00	-23.29
649.83	S	Peak	28.83	-6.60	22.23	46.00	-23.77
852.56	S	Peak	27.17	-3.65	23.52	46.00	-22.48
3505.20	S	Peak	38.02	4.71	42.73	54.00	-11.27
5257.80	S	---					
7010.40	S	Peak	35.58	9.83	45.41	54.00	-8.59
8763.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: HSUPA V Mode

Operation Band	:HSUPA B5	Test Date	:2013-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.07	-14.33	35.74	40.00	-4.26
66.86	S	Peak	48.15	-15.89	32.26	40.00	-7.74
155.13	S	Peak	37.93	-12.30	25.63	43.50	-17.87
399.57	S	Peak	26.74	-11.06	15.68	46.00	-30.32
533.43	S	Peak	29.79	-8.92	20.87	46.00	-25.13
866.14	S	Peak	27.66	-3.44	24.22	46.00	-21.78
1652.80	S	Peak	38.75	-1.62	37.13	54.00	-16.87
2479.20	S	---					
3305.60	S	---					
4132.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2013-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.60	-16.05	18.55	40.00	-21.45
182.29	S	Peak	45.69	-14.78	30.91	43.50	-12.59
341.37	S	Peak	30.65	-11.79	18.86	46.00	-27.14
548.95	S	Peak	31.50	-8.60	22.90	46.00	-23.10
728.40	S	Peak	27.77	-5.31	22.46	46.00	-23.54
816.67	S	Peak	28.28	-4.02	24.26	46.00	-21.74
1652.80	S	Peak	39.40	-0.89	38.51	54.00	-15.49
2479.20	S	---					
3305.60	S	---					
4132.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:HSUPA B5	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.10	-14.33	35.77	40.00	-4.23
67.83	S	Peak	47.92	-16.05	31.87	40.00	-8.13
154.16	S	Peak	37.10	-12.30	24.80	43.50	-18.70
388.90	S	Peak	27.57	-11.17	16.40	46.00	-29.60
542.16	S	Peak	28.88	-8.74	20.14	46.00	-25.86
862.26	S	Peak	27.36	-3.49	23.87	46.00	-22.13
1673.20	S	Peak	39.07	-1.38	37.69	54.00	-16.31
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2013-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.45	-16.05	18.40	40.00	-21.60
182.29	S	Peak	45.69	-14.78	30.91	43.50	-12.59
337.49	S	Peak	30.00	-11.83	18.17	46.00	-27.83
548.95	S	Peak	31.47	-8.60	22.87	46.00	-23.13
731.31	S	Peak	27.24	-5.27	21.97	46.00	-24.03
857.41	S	Peak	26.94	-3.58	23.36	46.00	-22.64
1673.20	S	Peak	38.49	-0.59	37.90	54.00	-16.10
2509.80	S	---					
3346.40	S	---					
4183.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2013-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.90	-14.33	35.57	40.00	-4.43
67.83	S	Peak	47.93	-16.05	31.88	40.00	-8.12
156.10	S	Peak	37.07	-12.30	24.77	43.50	-18.73
399.57	S	Peak	27.70	-11.06	16.64	46.00	-29.36
540.22	S	Peak	30.01	-8.78	21.23	46.00	-24.77
863.23	S	Peak	27.77	-3.48	24.29	46.00	-21.71
1693.20	S	Peak	38.39	-1.14	37.25	54.00	-16.75
2539.80	S	---					
3386.40	S	---					
4233.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:HSUPA B5	Test Date	:2013-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.90	-15.89	19.01	40.00	-20.99
182.29	S	Peak	45.60	-14.78	30.82	43.50	-12.68
339.43	S	Peak	31.05	-11.82	19.23	46.00	-26.77
547.98	S	Peak	31.76	-8.61	23.15	46.00	-22.85
741.98	S	Peak	27.44	-5.10	22.34	46.00	-23.66
865.17	S	Peak	26.75	-3.45	23.30	46.00	-22.70
1693.20	S	Peak	38.72	-0.30	38.42	54.00	-15.58
2539.80	S	---					
3386.40	S	---					
4233.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: CDMA 2000 Cellular Mode

Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:824.7 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.79	-14.33	35.46	40.00	-4.54
67.83	S	Peak	47.67	-16.05	31.62	40.00	-8.38
154.16	S	Peak	38.03	-12.30	25.73	43.50	-17.77
397.63	S	Peak	28.17	-11.09	17.08	46.00	-28.92
539.25	S	Peak	28.79	-8.79	20.00	46.00	-26.00
870.99	S	Peak	27.50	-3.36	24.14	46.00	-21.86
1649.40	S	Peak	38.49	-1.67	36.82	54.00	-17.18
2474.10	S	---					
3298.80	S	---					
4123.50	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:824.7 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.49	-16.05	18.44	40.00	-21.56
181.32	S	Peak	44.87	-14.68	30.19	43.50	-13.31
337.49	S	Peak	30.79	-11.83	18.96	46.00	-27.04
513.06	S	Peak	32.03	-9.34	22.69	46.00	-23.31
724.52	S	Peak	28.27	-5.37	22.90	46.00	-23.10
864.20	S	Peak	27.97	-3.47	24.50	46.00	-21.50
1649.40	S	Peak	38.42	-0.95	37.47	54.00	-16.53
2474.10	S	---					
3298.80	S	---					
4123.50	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:836.52 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.92	-14.33	35.59	40.00	-4.41
66.86	S	Peak	48.58	-15.89	32.69	40.00	-7.31
156.10	S	Peak	37.22	-12.30	24.92	43.50	-18.58
343.31	S	Peak	28.46	-11.76	16.70	46.00	-29.30
541.19	S	Peak	29.02	-8.76	20.26	46.00	-25.74
852.56	S	Peak	27.79	-3.65	24.14	46.00	-21.86
1673.04	S	Peak	37.87	-1.38	36.49	54.00	-17.51
2509.56	S	---					
3346.08	S	---					
4182.60	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:836.52 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	34.80	-16.05	18.75	40.00	-21.25
181.32	S	Peak	45.79	-14.68	31.11	43.50	-12.39
338.46	S	Peak	30.92	-11.83	19.09	46.00	-26.91
547.01	S	Peak	31.15	-8.63	22.52	46.00	-23.48
736.16	S	Peak	27.18	-5.19	21.99	46.00	-24.01
865.17	S	Peak	27.74	-3.45	24.29	46.00	-21.71
1673.04	S	Peak	40.20	-0.60	39.60	54.00	-14.40
2509.56	S	---					
3346.08	S	---					
4182.60	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:848.31 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.97	-14.33	35.64	40.00	-4.36
66.86	S	Peak	48.59	-15.89	32.70	40.00	-7.30
154.16	S	Peak	37.29	-12.30	24.99	43.50	-18.51
395.69	S	Peak	28.33	-11.13	17.20	46.00	-28.80
547.01	S	Peak	28.77	-8.63	20.14	46.00	-25.86
881.66	S	Peak	27.38	-3.17	24.21	46.00	-21.79
1692.62	S	Peak	39.20	-1.14	38.06	54.00	-15.94
2544.93	S	---					
3393.24	S	---					
4241.55	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 Cellular	Test Date	:2013-03-01
Fundamental Frequency	:848.31 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	33.74	-15.89	17.85	40.00	-22.15
181.32	S	Peak	45.15	-14.68	30.47	43.50	-13.03
331.67	S	Peak	30.63	-11.90	18.73	46.00	-27.27
547.98	S	Peak	31.39	-8.61	22.78	46.00	-23.22
645.95	S	Peak	29.14	-6.66	22.48	46.00	-23.52
878.75	S	Peak	26.96	-3.22	23.74	46.00	-22.26
1692.62	S	Peak	39.70	-0.30	39.40	54.00	-14.60
2544.93	S	---					
3393.24	S	---					
4241.55	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
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Radiated Spurious Emission Measurement Result: CDMA 2000 PCS Mode

Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1851.25 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	49.95	-14.33	35.62	40.00	-4.38
67.83	S	Peak	48.13	-16.05	32.08	40.00	-7.92
156.10	S	Peak	37.74	-12.30	25.44	43.50	-18.06
343.31	S	Peak	28.51	-11.76	16.75	46.00	-29.25
547.01	S	Peak	28.78	-8.63	20.15	46.00	-25.85
861.29	S	Peak	28.21	-3.50	24.71	46.00	-21.29
3702.50	S	Peak	36.81	5.20	42.01	54.00	-11.99
5553.75	S	---					
7405.00	S	Peak	33.79	10.61	44.40	54.00	-9.60
9256.25	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1851.25 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX LOW	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.63	-15.89	18.74	40.00	-21.26
181.32	S	Peak	45.16	-14.68	30.48	43.50	-13.02
338.46	S	Peak	30.99	-11.83	19.16	46.00	-26.84
554.77	S	Peak	30.95	-8.50	22.45	46.00	-23.55
733.25	S	Peak	27.22	-5.24	21.98	46.00	-24.02
899.12	S	Peak	26.63	-2.83	23.80	46.00	-22.20
3702.50	S	Peak	37.83	5.14	42.97	54.00	-11.03
5553.75	S	---					
7405.00	S	Peak	34.86	10.28	45.14	54.00	-8.86
9256.25	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.06	-14.33	35.73	40.00	-4.27
66.86	S	Peak	49.02	-15.89	33.13	40.00	-6.87
154.16	S	Peak	37.36	-12.30	25.06	43.50	-18.44
390.84	S	Peak	27.56	-11.16	16.40	46.00	-29.60
533.43	S	Peak	28.96	-8.92	20.04	46.00	-25.96
900.09	S	Peak	26.99	-2.82	24.17	46.00	-21.83
3760.00	S	Peak	37.29	5.53	42.82	54.00	-11.18
5640.00	S	---					
7520.00	S	Peak	35.28	10.90	46.18	54.00	-7.82
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1880.0 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX MID	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
66.86	S	Peak	34.08	-15.89	18.19	40.00	-21.81
181.32	S	Peak	44.78	-14.68	30.10	43.50	-13.40
338.46	S	Peak	31.30	-11.83	19.47	46.00	-26.53
548.95	S	Peak	31.12	-8.60	22.52	46.00	-23.48
686.69	S	Peak	27.77	-5.92	21.85	46.00	-24.15
862.26	S	Peak	27.13	-3.49	23.64	46.00	-22.36
3760.00	S	Peak	36.46	5.54	42.00	54.00	-12.00
5640.00	S	---					
7520.00	S	Peak	35.24	10.57	45.81	54.00	-8.19
9400.00	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1908.75 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
30.97	S	Peak	50.04	-14.33	35.71	40.00	-4.29
67.83	S	Peak	48.39	-16.05	32.34	40.00	-7.66
156.10	S	Peak	37.09	-12.30	24.79	43.50	-18.71
397.63	S	Peak	27.02	-11.09	15.93	46.00	-30.07
540.22	S	Peak	30.92	-8.78	22.14	46.00	-23.86
848.68	S	Peak	27.81	-3.70	24.11	46.00	-21.89
3817.50	S	Peak	37.34	5.34	42.68	54.00	-11.32
5726.25	S	---					
7464.00	S	-41.18	-42.45	10.40	-9.12	-13.00	-28.18
7635.00	S	Peak	34.70	11.05	45.75	54.00	-8.25
9543.75	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.
"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.
"---" : denotes Noise Floor.

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Operation Band	:CDMA 2000 PCS	Test Date	:2013-03-01
Fundamental Frequency	:1908.75 MHz	Temp./Humi.	:27 deg_C / 66 RH
Operation Mode	:RX HIGH	Engineer	:Louis
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV / m	dBµV / m	dB
67.83	S	Peak	35.32	-16.05	19.27	40.00	-20.73
181.32	S	Peak	45.64	-14.68	30.96	43.50	-12.54
339.43	S	Peak	31.02	-11.82	19.20	46.00	-26.80
547.01	S	Peak	31.26	-8.63	22.63	46.00	-23.37
730.34	S	Peak	27.22	-5.29	21.93	46.00	-24.07
863.23	S	Peak	26.98	-3.48	23.50	46.00	-22.50
3817.50	S	Peak	36.96	5.39	42.35	54.00	-11.65
5726.25	S	---					
7635.00	S	Peak	35.49	10.79	46.28	54.00	-7.72
9543.75	S	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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12. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

12.1 Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

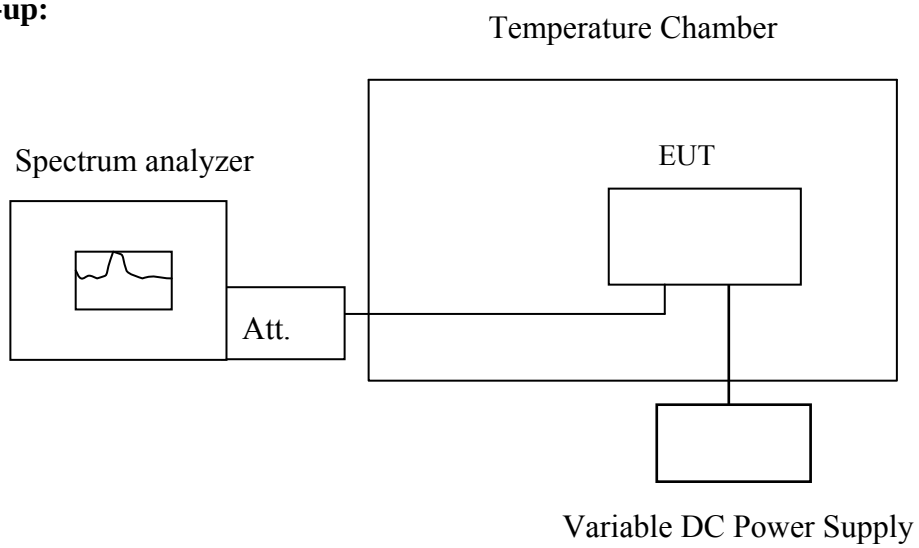
+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

According to RSS-133 §6.3, RSS-132 §5.3, RSS-139 §6.3

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations

12.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

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12.3 Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

12.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5 Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	836.600001	13.00	2091
120	-20	836.600004	10.00	2091
120	-10	836.600008	6.00	2091
120	0	836.600005	9.00	2091
120	10	836.600011	3.00	2091
120	20	836.600014	0.00	2091
120	30	836.600014	0.00	2091
120	40	836.600012	2.00	2091
120	50	836.600008	6.00	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	1880.000002	-14.00	4700
120	-20	1879.999997	-9.00	4700
120	-10	1879.999996	-8.00	4700
120	0	1879.999994	-6.00	4700
120	10	1879.999992	-4.00	4700
120	20	1879.999988	0.00	4700
120	30	1879.999989	-1.00	4700
120	40	1879.999988	0.00	4700
120	50	1879.999991	-3.00	4700

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Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	1880.000002	-6.00	4700
120	-20	1880.000001	-5.00	4700
120	-10	1880.000002	-6.00	4700
120	0	1880.000001	-5.00	4700
120	10	1879.999998	-2.00	4700
120	20	1879.999996	0.00	4700
120	30	1879.999994	2.00	4700
120	40	1879.999996	0.00	4700
120	50	1879.999993	3.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 (ARFCN1413) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	1732.600001	13.00	4700
120	-20	1732.600004	10.00	4700
120	-10	1732.600008	6.00	4700
120	0	1732.600005	9.00	4700
120	10	1732.600011	3.00	4700
120	20	1732.600014	0.00	4700
120	30	1732.600013	1.00	4700
120	40	1732.600012	2.00	4700
120	50	1732.600008	6.00	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	836.600007	-4.00	2091
120	-20	836.600006	-3.00	2091
120	-10	836.600007	-4.00	2091
120	0	836.600005	-2.00	2091
120	10	836.600002	1.00	2091
120	20	836.600003	0.00	2091
120	30	836.599999	4.00	2091
120	40	836.599998	5.00	2091
120	50	836.599996	7.00	2091

Reference Frequency: CDMA 2000 Cellular Mid Channel 836.0 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	836.520007	-6.00	2091
120	-20	836.520004	-3.00	2091
120	-10	836.520002	-1.00	2091
120	0	836.520001	0.00	2091
120	10	836.52	1.00	2091
120	20	836.520001	0.00	2091
120	30	836.520003	-2.00	2091
120	40	836.520002	-1.00	2091
120	50	836.520004	-3.00	2091
120	-30	836.520007	-6.00	2091

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Reference Frequency: CDMA 2000 PCS Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
120	-30	1879.999994	5.00	4700
120	-20	1879.999998	1.00	4700
120	-10	1879.999997	2.00	4700
120	0	1879.999996	3.00	4700
120	10	1879.999998	1.00	4700
120	20	1879.999999	0.00	4700
120	30	1879.999998	1.00	4700
120	40	1879.999997	2.00	4700
120	50	1879.999998	1.00	4700
120	-30	1879.999994	5.00	4700

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13 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

13.1 Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

According to RSS-133 §6.3, RSS-132 §5.3, RSS-139 §6.3

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

13.2 Test Set-up:

Refer to section 12.2 in this report

13.3 Measurement Procedure:

Set chamber temperature to 27℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

13.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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13.5 Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	836.600012	2.00	2091.00
120.0	25	836.600014	0.00	2091.00
108.0	25	836.600008	6.00	2091.00

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	1879.999991	-3.00	4700.00
120.0	25	1879.999988	0.00	4700.00
108.0	25	1879.999987	1.00	4700.00

Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	1879.999998	-2.00	4700.00
120.0	25	1879.999996	0.00	4700.00
108.0	25	1879.999992	4.00	4700.00

Reference Frequency: WCDMA IV Mid Channel 1732.6 (ARFCN1413) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	1732.599998	-2.00	4700.00
120.0	25	1732.599996	0.00	4700.00
108.0	25	1732.599992	4.00	4700.00

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Reference Frequency: WCDMA V Mid Channel 836.6 (ARFCN4183) MHz				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	836.600002	1.00	2091.00
120.0	25	836.600003	0.00	2091.00
108.0	25	836.600006	-3.00	2091.00

Reference Frequency: CDMA 2000 Cellular Mid Channel 836.0 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	836.520003	-2.00	2091.00
120.0	25	836.520001	0.00	2091.00
108.0	25	836.520002	-1.00	2091.00

Reference Frequency: CDMA 2000 PCS Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vac	Temperature (℃)	(MHz)		
132.0	25	1879.999997	2.00	4700.00
120.0	25	1879.999999	0.00	4700.00
108.0	25	1879.999998	1.00	4700.00

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14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

14.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section Part 22, subpart H and Part 24, subpart E of the FCC CFR 47 Rules. And RSS-102 issue 4 For 47 CFR 1.1310 Radio frequency Radiation Exposure requirement.

14.2 Special Accessories

Not available for this EUT intended for grant.

14.3 Equipment Modifications

Not available for this EUT intended for grant.

14.4 Limitation

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m^2)	Averaging Time (minutes)
0.003-1	280	2.19	-	6
1-10	$280/f$	$2.19/f$	-	6
10-30	28	$2.19/f$	-	6
30-300	28	0.073	2^*	6
300-1500	$1.585\ f^{0.5}$	$0.0042\ f^{0.5}$	$f/150$	6
1500-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158\ f^{0.5}$	$4.21 \times 10^{-4}\ f^{0.5}$	$6.67 \times 10^{-5}\ f$	$616000/f^{1.2}$

Note: f is frequency in MHz.

* Power density limit is applicable at frequencies greater than 100 MHz.

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14.5 Maximum Permissible Exposure (MPE) Evaluation

In this application we seek approval to the VM2WG. Based on the FCC OET Bulletin 65 Supplement C and 47 CFR §2.1091, we have concluded VM2WG will comply with the FCC rules on RF exposure for mobile devices in cellular band and PCS band. The following analysis will demonstrate such compliance. The analysis will be done in two US bands.

Operation in cellular band (824 – 849 MHz) (First Antenna)

The ERP of VM2WG in cellular band is 24.49dBm max at GPRS 850 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
GPRS 850	E2	824.20	128	V	24.74	3.96	-4.22	24.48	38.45
				H	21.62	3.96	-4.22	21.36	38.45
		836.60	190	V	24.69	4.00	-4.24	24.45	38.45
				H	22.04	4.00	-4.24	21.80	38.45
		848.80	251	V	24.79	4.03	-4.33	**24.49**	38.45
				H	21.89	4.03	-4.33	21.59	38.45

ERP = 24.49 dBm =281.190 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 28.190*0.25/($4*\pi*20^2$) = 0.0140 mW/cm^2

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 848.8/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure

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Operation in PCS band (1850 – 1910 MHz) (First Antenna)

The EIRP of VM2WG in PCS band is 27.90dBm max at GPRS 1900 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
GPRS 1900	E2	1850.20	512	V	29.21	4.17	-5.49	**27.90**	33.00
				H	26.82	4.51	-5.49	25.85	33.00
		1880.00	661	V	28.96	4.13	-5.56	27.53	33.00
				H	28.15	4.44	-5.56	27.02	33.00
		1909.80	810	V	28.38	4.09	-5.56	26.91	33.00
				H	28.71	4.36	-5.56	27.52	33.00

EIRP = 27.90 dBm = 616.595 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 616.595*0.25/($4*\pi*20^2$) =0.0307 mW/cm^2
where Duty Cycle is 0. 25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in HSUPA band II (1850 – 1910 MHz) (First Antenna)

The EIRP of VM2WG in PCS band is 27.91dBm max at HSUPA II mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSUPA Band II	E2	1852.4	9262	V	29.23	4.17	-5.49	**27.91**	33.00
				H	27.10	4.51	-5.49	26.12	33.00
		1880.0	9400	V	27.66	4.13	-5.56	26.23	33.00
				H	27.89	4.44	-5.56	26.77	33.00
		1907.6	9538	V	26.28	4.10	-5.62	24.76	33.00
				H	26.99	4.37	-5.56	25.80	33.00

ERP = 27.91 dBm = 618.016 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 618.016*1/($4*\pi*20^2$) = 0.01230 mW/cm^2

where Duty Cycle is 1 for HSUPA band II mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure.

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Operation in HSUPA band IV (1712.4 – 1752.6 MHz) (First Antenna)

The EIRP of VM2WG in PCS band is 26.87dBm max at HSUPA IV mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSUPA Band IV	E2	1712.4	1312	V	27.29	4.40	-5.40	26.28	33.00
				H	27.48	4.79	-5.40	**26.87**	33.00
		1732.6	1413	V	26.50	4.35	-5.42	25.43	33.00
				H	26.17	4.78	-5.42	25.52	33.00
		1752.6	1513	V	26.44	4.31	-5.44	25.31	33.00
				H	24.35	4.77	-5.44	23.68	33.00

EIRP = 26.87 dBm = 486.407 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 486.407*1/($4*\pi*20^2$) = 0.0968 mW/cm^2
where Duty Cycle is 1 for HSUPA band IV mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band V (826 – 849 MHz) (First Antenna)

The EIRP of VM2WG in cellular band is 22.47dBm max at HSDPA V mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA Band V	E2	826.40	4132	V	22.62	3.97	-4.22	22.36	38.45
				H	16.86	3.97	-4.22	16.61	38.45
		836.60	4183	V	22.27	4.00	-4.24	22.03	38.45
				H	17.04	4.00	-4.24	16.80	38.45
		846.60	4233	V	22.69	4.02	-4.24	**22.47**	38.45
				H	19.07	4.02	-4.24	18.86	38.45

EIRP = 22.47 dBm = 176.604 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 176.604*1/($4*\pi*20^2$) = 0.0351 mW/cm^2
where Duty Cycle is 1 for HSDPA band V mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 846.6/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in cellular band (824 – 849 MHz) (First Antenna)

The ERP of VM2WG in cellular band is 23.41dBm max at CDMA2000 Cellular mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
CDMA 2000 Cellular	E2	824.70	1013	V	22.17	3.97	-2.80	23.34	38.45
				H	16.89	3.97	-2.80	18.05	38.45
		836.52	384	V	22.23	4.00	-2.82	**23.41**	38.45
				H	18.32	4.00	-2.82	19.50	38.45
		848.31	777	V	21.71	4.03	-2.84	22.90	38.45
				H	18.81	4.03	-2.84	19.99	38.45

ERP = 23.41dBm = 216.281 mW
Power Density = ERP*Duty Cycle/($4\pi R^2$)
= 219.281*1/($4*\pi*20^2$) = 0.0436 mW/cm^2
where Duty Cycle is 1 for CDMA operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.52/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz) (First Antenna)

The EIRP of VM2WG in PCS band is 28.04dBm max at CDMA2000 PCS mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
CDMA 2000 PCS	E2	1851.25	25	V	28.16	4.17	-4.29	**28.04**	33.00
				H	22.45	4.51	-4.29	22.66	33.00
		1880.00	600	V	27.33	4.13	-4.33	27.13	33.00
				H	23.58	4.44	-4.33	23.69	33.00
		1908.75	1175	V	26.27	4.10	-4.37	26.00	33.00
				H	23.81	4.37	-4.37	23.81	33.00

EIRP = 28.04 dBm = 636.766 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 636.766*1/($4*\pi*20^2$) = 0.1267 mW/cm^2
where Duty Cycle is 1 for CDMA2000 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in cellular band (824 – 849 MHz) (Second Antenna)

The ERP of VM2WG in cellular band is 25.21dBm max at EDGE 850 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**ERP**	**Limit**
		MHz		**V/H**	**dBm**	**dBd**	**dB**	**dBm**	**dBm**
EDGE 850	E2	824.20	128	V	25.33	3.96	-4.22	25.07	38.45
				H	24.55	3.96	-4.22	24.29	38.45
		836.60	190	V	25.25	4.00	-4.24	25.01	38.45
				H	24.29	4.00	-4.24	24.05	38.45
		848.80	251	V	25.51	4.03	-4.33	**25.21**	38.45
				H	24.11	4.03	-4.33	23.81	38.45

ERP = 25.21 dBm = 331.895 mW

Power Density = ERP*Duty Cycle/($4\pi R^2$)

= 331.895*0.25/($4*\pi*20^2$) = 0.0165 mW/cm^2

where Duty Cycle is 0.25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 848.8/1500 = 0.57 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure

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Operation in PCS band (1850 – 1910 MHz) (Second Antenna)

The EIRP of VM2WG in PCS band is 28.53dBm max at GPRS 1900 mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
GPRS 1900	E2	1850.20	512	V	28.44	4.17	-5.49	27.13	33.00
				H	20.54	4.51	-5.49	19.56	33.00
		1880.00	661	V	29.06	4.13	-5.56	27.64	33.00
				H	20.17	4.44	-5.56	19.05	33.00
		1909.80	810	V	29.99	4.09	-5.56	**28.53**	33.00
				H	20.12	4.36	-5.56	18.93	33.00

EIRP = 28.53 dBm = 712.853 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 712.853*0.25/($4*\pi*20^2$) =0.0355 mW/cm^2
where Duty Cycle is 0. 25 for GPRS operation (class 10) and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band II (1850 – 1910 MHz) (Second Antenna)

The EIRP of VM2WG in PCS band is 26.10dBm max at HSDPA II mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA Band II	E2	1852.4	9262	V	26.09	4.17	-5.49	24.77	33.00
				H	16.90	4.51	-5.49	15.92	33.00
		1880.0	9400	V	25.44	4.13	-5.56	24.01	33.00
				H	15.45	4.44	-5.56	14.32	33.00
		1907.6	9538	V	27.56	4.10	-5.56	**26.10**	33.00
				H	16.68	4.37	-5.62	15.43	33.00

EIRP = 26.10 dBm = 407.380 mW
Power Density = ERP*Duty Cycle/(4 π R^2)
= 407.380*1/(4* π *20^2) = 0.0810 mW/cm^2
where Duty Cycle is 1 for HSDPA band II mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure.

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Operation in HSDPA band IV (1712.4 – 1752.6 MHz) (Second Antenna)

The EIRP of VM2WG in PCS band is 24.60dBm max at HSUPA IV mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSDPA Band IV	E2	1712.4	1312	V	24.48	4.40	-5.40	23.47	33.00
				H	23.49	4.79	-5.40	22.88	33.00
		1732.6	1413	V	24.91	4.35	-5.42	23.84	33.00
				H	23.68	4.78	-5.42	23.04	33.00
		1752.6	1513	V	25.72	4.31	-5.44	**24.60**	33.00
				H	21.56	4.76	-5.44	20.89	33.00

EIRP = 24.60 dBm = 288.403 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 288.403*1/($4*\pi*20^2$) = 0.0574 mW/cm^2
where Duty Cycle is 1 for HSDPA band IV mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in HSUPA band V (826 – 849 MHz) (Second Antenna)

The EIRP of VM2WG in cellular band is 22.86dBm max at HSUPA V mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
HSUPA Band V	E2	826.40	4132	V	22.48	3.97	-4.22	22.23	38.45
				H	21.41	3.97	-4.22	21.15	38.45
		836.60	4183	V	23.10	3.99	-4.24	**22.86**	38.45
				H	21.14	4.00	-4.24	20.90	38.45
		846.60	4233	V	22.46	4.02	-4.24	22.24	38.45
				H	20.95	4.02	-4.24	20.74	38.45

EIRP = 22.86 dBm = 193.197 mW
Power Density = EIRP*Duty Cycle/($4\pi R^2$)
= 193.197*1/($4*\pi*20^2$) = 0.0384 mW/cm^2
where Duty Cycle is 1 for HSUPA band V mode and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.6/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in PCS band is compliant with the FCC rules on RF exposure.

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Operation in cellular band (824 – 849 MHz) (Second Antenna)

The EIRP of VM2WG in cellular band is 24.81dBm max at CDMA2000 Cellular mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
CDMA 2000 Cellular	E2	824.70	1013	V	21.04	3.97	-2.80	22.20	38.45
				H	23.16	3.96	-2.80	24.32	38.45
		836.52	384	V	21.76	4.00	-2.82	22.94	38.45
				H	23.63	4.00	-2.82	**24.81**	38.45
		848.31	777	V	20.59	4.03	-2.84	21.78	38.45
				H	23.54	4.02	-2.84	24.72	38.45

EIRP = 24.81dBm = 302.691 mW
Power Density = ERP*Duty Cycle/(4 π R^2)
= 302.691*1/(4* π *20^2) = 0.0602 mW/cm^2
where Duty Cycle is 1 for CDMA operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 836.52/1500 = 0.56 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure.

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Operation in PCS band (1850 – 1910 MHz) (Second Antenna)

The EIRP of VM2WG in cellular band is 26.60dBm max at CDMA2000 PCS mode. The resulted power density at a distance of 20 cm can be deducted as follows:

EUT				Measurement					
Operation Band	**Pol.**	**Fundamental Frequency**	**CH**	**Antenna Pol.**	**S.G. Output**	**Antenna Gain**	**Cable Loss**	**EIRP**	**Limit**
		MHz		**V/H**	**dBm**	**dBi**	**dB**	**dBm**	**dBm**
CDMA 2000 PCS	E2	1851.25	25	V	24.76	4.17	-4.29	24.64	33.00
				H	26.39	4.51	-4.29	**26.60**	33.00
		1880.00	600	V	26.10	4.13	-4.33	25.90	33.00
				H	24.01	4.44	-4.33	24.12	33.00
		1908.75	1175	V	25.72	4.10	-4.37	25.45	33.00
				H	23.90	4.37	-4.37	23.90	33.00

EIRP = 26.60 dBm = 457.088 mW

Power Density = EIRP*Duty Cycle/($4\pi R^2$)

= 457.088*1/($4*\pi*20^2$) = 0.0909 mW/cm^2

where Duty Cycle is 1 for CDMA2000 operation and R is 20 cm.

The MPE limit for General Population/Uncontrolled Exposure is shown in the FCC OET Bulletin 65 Supplement C and can be calculated as follows:

MPE limit = 1.0 mW/cm^2

As we can see the resulted power density is below the MPE limit, therefore VM2WG in cellular band is compliant with the FCC rules on RF exposure.

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