

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E

OF

Product Name: TITAN 5

Brand Name: AMobile

Marketing Name: TITAN 5

Model No.: T551BA, T55XXXX (X=0~9, A~Z)

Model Difference: Please refer to page 7

FCC ID: 2ACC5-T55

Report No.: EH/2014/10024

Issue Date: Jul. 09, 2014

FCC Rule Part: 2, 22H & 24E

Prepared for: AMobile Intelligent Corp
18F-1, No.150, Jian 1st Rd., Zhong He dist., New Taipei City, 235, Taiwan

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
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VERIFICATION OF COMPLIANCE

Applicant: AMobile Intelligent Corp
 18F-1, No.150, Jian 1st Rd., Zhong He dist., New Taipei City, 235,
 Taiwan

Product Name: TITAN 5

Brand Name: AMobile

Marketing Name: TITAN 5

Model No.: T551BA, T55XXXX (X=0~9, A~Z)

Model Difference: Please refer to page 7

FCC ID: 2ACC5-T55

File Number: EH/2014/10024

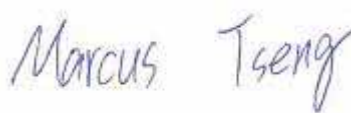
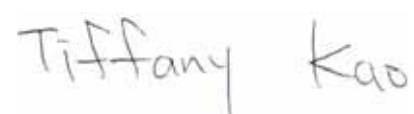
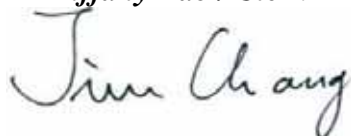
Date of test: Jan. 29, 2014 ~ May. 09, 2014

Date of EUT Received: Jan. 22, 2014

We hereby certify that:

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

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

Test By:		Date	Jul. 09, 2014
	_____ <i>Marcus Tseng / Engineer</i>		_____
Prepared By:		Date	Jul. 09, 2014
	_____ <i>Tiffany Kao / Clerk</i>		_____
Approved By:		Date	Jul. 09, 2014
	_____ <i>Jim Chang / Supervisor</i>		_____

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Version

Version No.	Date	Description
00	May. 20, 2014	Initial creation of document
01	Jul. 09, 2014	Modified USB Cable Model No., Supplier and EUT Photos

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	TITAN 5	
Brand Name:	AMobile	
Marketing Name:	TITAN 5	
Model No.:	T551BA, T55XXXX (X=0~9, A~Z)	
Model difference:	Please refer to page 7	
Hardware Version:	V02	
Software Version:	AMobile_G0550_V08	
Data Cable (USB):	Model No.: YXT-64-MK5P-1M, Supplier: THIN STRIP OF SKY	
Simple Hands-Free:	Model No.: LTX-12654319-B003, Supplier: Sanmu	
Power Supply:	3.7Vdc Rechargeable Li-ion Battery or 5Vdc from AC/DC Adapter	
	Battery:	Model: G0550B01, Supplier: Japone
	Adapter:	Model No.: BSYB050150U USB, Supplier: BSY

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GSM / GPRS / WCDMA:

Cellular Phone Standards Frequency Range and Power.	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
Type of Emission:	GSM 850: 248KGXW, GSM 1900: 245KGXW GPRS 850: 249KGXW, GPRS 1900: 245KGXW WCDMA Band II: 4M15F9W, WCDMA Band V: 4M16F9W HSDPA Band II: 4M16F9W, HSDPA Band V: 4M18F9W HSUPA Band II: 4M17F9W, HSUPA Band V: 4M16F9W		
IMEI:	865922019095200		

This test report applies for 850 / 1700 / 1900 GSM / GPRS, WCDMA / HSDPA / HSUPA Band II/V.

Marketing

Model Difference:

T55XXXX	55	X	X	XX
Model	Panel Size	Barcode Type	Color	Location
T	55: 5.5”	0:No Barcode Scanner 1:Honey 1D Scanner 3:Marson 1D Scanner	B:Black W:White	where X may be A-Z or blank for Marketing purpose

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7	310
GSM 1900	3.7	240
GPRS 850	3.7	220
GPRS 1900	3.7	240
WCDMA B2	3.7	570
WCDMA B5	3.7	560
HSUPA B2	3.7	550
HSUPA B5	3.7	470
HSDPA B2	3.7	560
HSDPA B5	3.7	500

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

This submittal(s) (test report) is intended for **FCC ID: 2ACC5-T55** filing to comply with Section Part 22 subpart H, Part 24 subpart E of the FCC CFR 47 Rules.

1.3. Test Methodology

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

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

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

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

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number are: 990257, Canada Registration Number: 4620A-4.

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

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

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C 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:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/22/2013	10/21/2014
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/01/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/27/2013	11/26/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014
Horn antenna	ETS.LINDGREN	3117	123991	01/20/2014	01/19/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	01/23/2014	01/22/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/19/2013	07/18/2014
Network Analyze	Anritsu	MS4644A	1216312	05/23/2013	05/22/2014
Signal Generator	Agilent	E4438C	MY45093613	07/30/2013	07/29/2014
Pre-Amplifier	Agilent	8447D	1937A02834	01/03/2014	01/02/2015
Pre-Amplifier	Agilent	8449B	3008A00578	01/03/2014	01/02/2015
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/24/2014	01/23/2015
Attenuator	Mini-Circuit	BW-S10W2+	004	02/27/2014	02/26/2015
Radio Communication Analyzer	R & S	CMU200	102189	06/17/2013	06/16/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/03/2014	01/02/2015
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/03/2014	01/02/2015
Filter 800-1000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1800-2000	Micro-Tronics	EWT	M2	02/27/2014	02/26/2015
Filter 1700-1800	Micro-Tronics	BRC15751	001	02/27/2014	02/26/2015
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/27/2014	02/26/2015
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/27/2014	02/26/2015
3m Site NSA	SGS	966 chamber	N/A	07/15/2013	07/14/2014

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Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	US41160416	03/08/2014	03/07/2015
Radio Communication Analyzer	R & S	CMU200	102189	06/17/2013	06/16/2014
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/21/2013	10/20/2014
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
DC Block	Mini-Circuits	BLK-18-S+	1	02/27/2014	02/26/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	02/27/2014	02/26/2015
Splitter	Agilent	11636B	N/A	02/27/2014	02/26/2015
DC Power Supply	Agilent	E3640A	KR93300208	07/24/2013	07/23/2014

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2.5. Configuration of Tested System

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

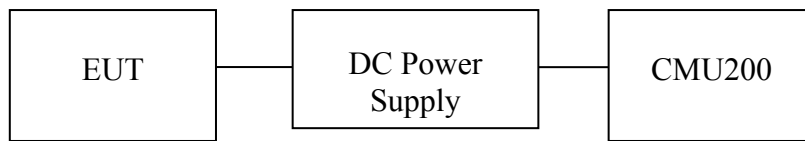


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

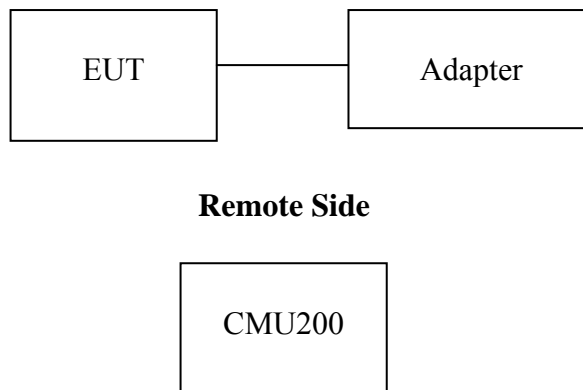


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY53140006	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

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

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Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	25.22	ERP	0.333
GSM 1900 Band	23.04	EIRP	0.201
GPRS 850 Band	25.26	ERP	0.336
GPRS 1900 Band	23.45	EIRP	0.221
WCDMA Band II	21.42	EIRP	0.139
WCDMA Band V	22.07	ERP	0.161
HSUPA Band II	21.19	EIRP	0.132
HSUPA Band V	22.01	ERP	0.159
HSDPA Band II	21.30	EIRP	0.135
HSDPA Band V	22.17	ERP	0.165

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The list of channel selected to conduct the measurements

GSM/GPRS 850:

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

GSM/GPRS 1900:

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

WCDMA/HSPA BII:

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

WCDMA/HSPA BV:

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

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

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.42 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 123.36 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.55 dB
Peak to Average Ratio	+/- 1.55 dB
Frequency Stability vs. Temperature	+/- 123.36 Hz
Frequency Stability vs. Voltage	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz - 417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz - 500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. RF POWER OUTPUT MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046.

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.

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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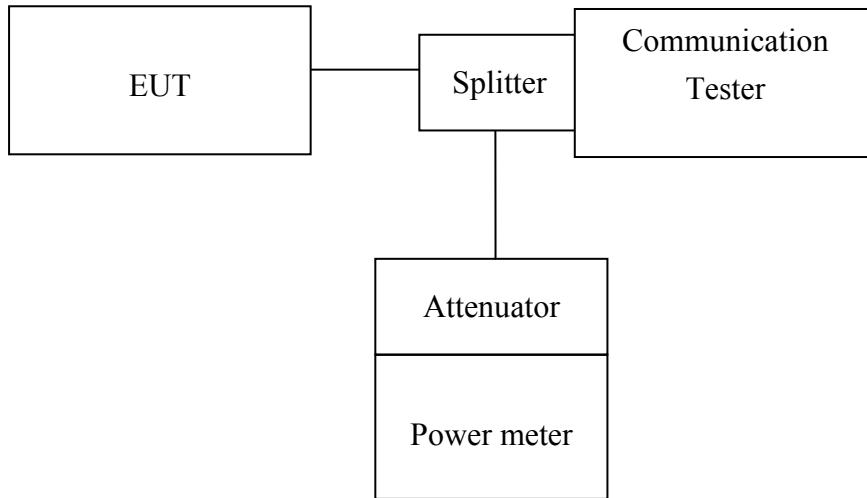
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6.2. Test Set-up:



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 CMW200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration Set appropriate level to verify if or not power on mobile station’s link with simulator still exists.

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5. Measurement Result:

6.5.1. RF Conducted Output Power

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

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 850	824.2	128	32.50	32.40
	836.6	190	32.50	32.30
	848.8	251	32.40	32.30

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	29.40	29.30
	1880.0	661	29.20	29.00
	1909.8	810	29.10	28.90

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)
GPRS 850	824.2	128	32.50	32.30	31.90	31.70
	836.6	190	32.50	32.30	31.90	31.70
	848.8	251	32.40	32.30	31.80	31.70

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	30.30	30.10	29.20	29.10
	836.6	190	30.30	30.10	29.30	29.20
	848.8	251	30.20	30.10	29.30	29.10

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EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 1900	1850.2	512	29.40	29.20	28.90	28.70
	1880.0	661	29.20	29.00	28.60	28.40
	1909.8	810	29.10	28.90	28.50	28.30

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 3UP) Class 12 (dBm)	Average Burst Power (4DN 3UP) Class 12 (dBm)	Peak Power (4DN 4UP) Class 12 (dBm)	Average Burst Power (4DN 4UP) Class 12 (dBm)
GPRS 1900	1850.2	512	27.40	27.20	26.30	26.10
	1880.0	661	27.10	26.90	26.10	25.90
	1909.8	810	27.00	26.90	26.00	25.80

Cable loss offset: 1dB

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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	25.83	22.53
	1880.0	9400	25.64	22.48
	1907.6	9538	25.12	22.08

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	25.88	22.91
	836.6	4183	25.88	22.91
	846.6	4233	25.71	22.75

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	24.96	22.16
	1880.0	9400	24.75	21.08
	1907.6	9538	24.41	20.79

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	25.02	21.51
	836.6	4183	24.99	21.50
	846.6	4233	24.89	21.39

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band II	1852.4	9262	24.95	21.17
	1880.0	9400	24.84	21.02
	1907.6	9538	24.41	20.72

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSUPA Band V	826.4	4132	25.05	21.47
	836.6	4183	25.03	21.45
	846.6	4233	24.84	21.32

Note: The results above reflect max power with all up bits.
 Cable loss offset: 1dB

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6.5.1.3.:HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	22.70	22.37	21.94	20.3dBm – 25.7dBm	Pass
	2	22.41	22.34	21.93	20.3dBm – 25.7dBm	Pass
	3	22.22	21.92	21.41	19.8dBm – 25.7dBm	Pass
	4	22.29	21.93	21.53	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	22.70	22.77	22.87	20.3dBm – 25.7dBm	Pass
	2	22.84	22.80	22.62	20.3dBm – 25.7dBm	Pass
	3	22.24	22.29	22.38	19.8dBm – 25.7dBm	Pass
	4	22.29	22.33	22.44	19.8dBm – 25.7dBm	Pass

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

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

HSPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	22.45	22.46	22.02	18.8dBm – 25.7dBm	Pass
	2	20.50	20.53	20.06	16.8dBm – 25.7dBm	Pass
	3	21.51	21.48	21.10	17.8dBm – 25.7dBm	Pass
	4	20.63	20.58	20.10	16.8dBm – 25.7dBm	Pass
	5	22.34	22.32	21.93	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	22.87	22.84	22.67	18.8dBm – 25.7dBm	Pass
	2	20.93	20.92	20.71	16.8dBm – 25.7dBm	Pass
	3	21.91	21.90	21.75	17.8dBm – 25.7dBm	Pass
	4	20.98	20.98	20.79	16.8dBm – 25.7dBm	Pass
	5	22.73	22.67	22.56	18.8dBm – 25.7dBm	Pass

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	28	27	25.1	23.1	21.2	19.2	17.2	15.1	13.1

PCL	9	10	11	12	13	14	15
Output power (dBm)	11.2	9.1	7	4.9	2.9	1.4	-0.5

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

WCDMA/HSDPA/HSUPA band II, V

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

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

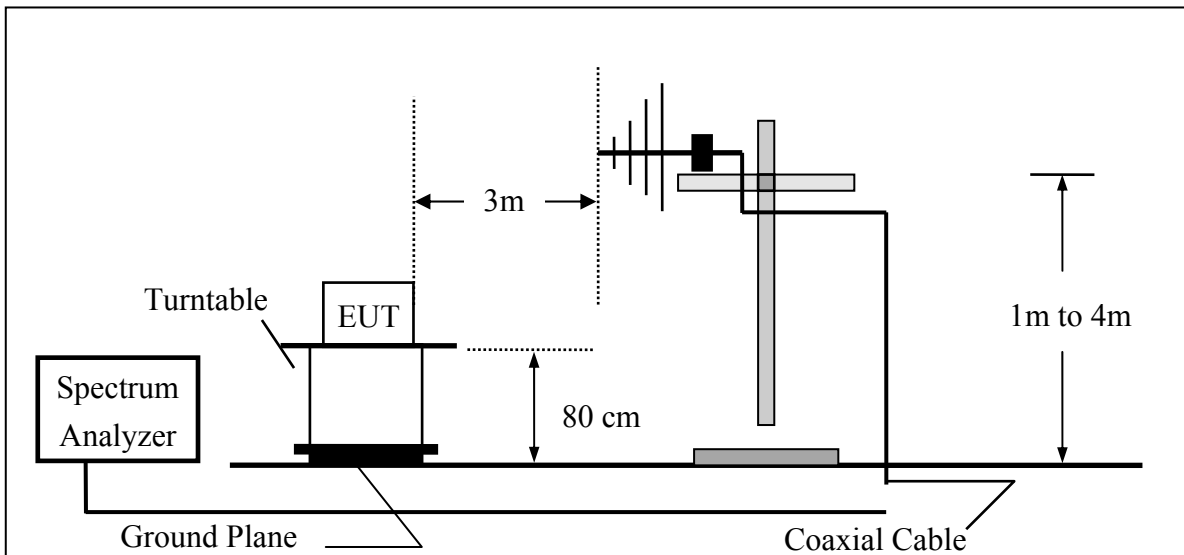
According to FCC §2.1046

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

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

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

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

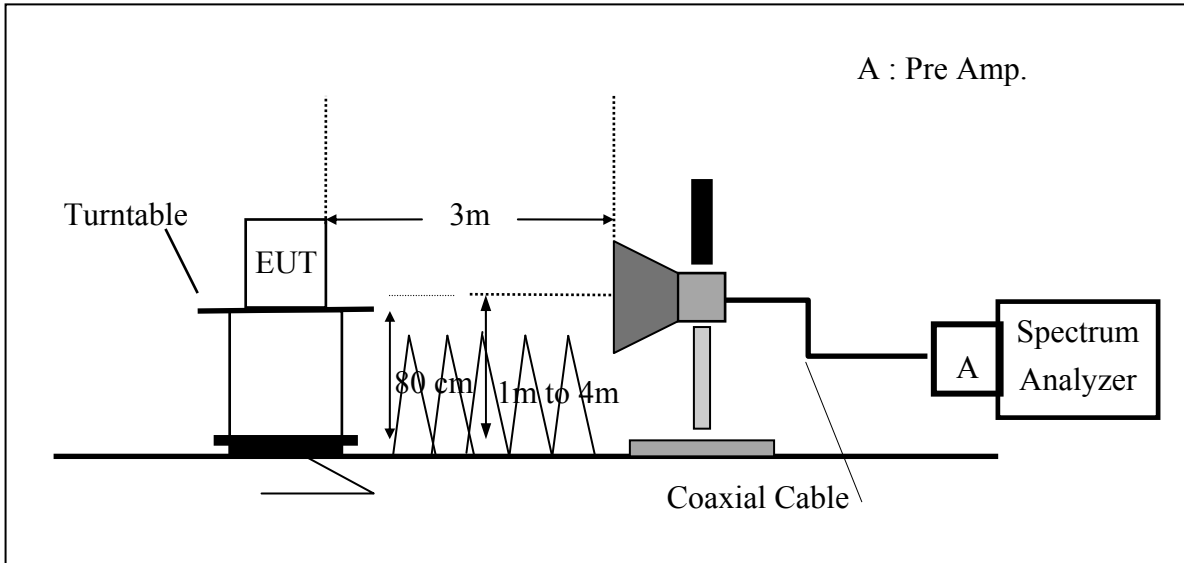


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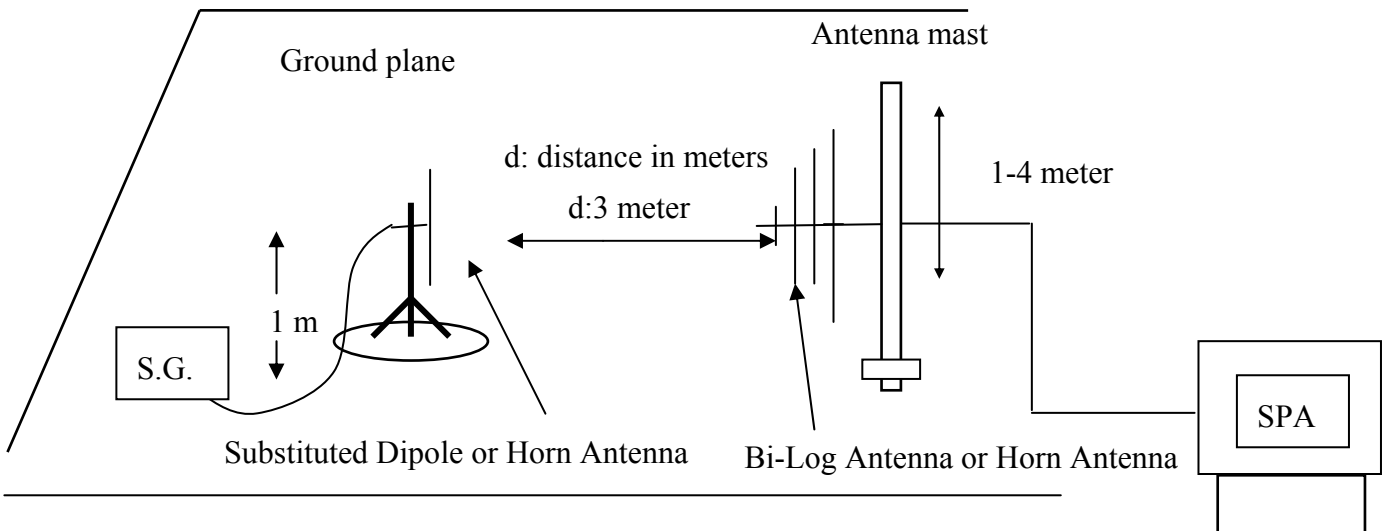
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure:

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

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

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

EIRP in frequency band 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:

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

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

Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW $\geq 3 \times \text{RBW}$.

Or,

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

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW $\approx 1 \sim 5\%$ of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

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

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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.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GSM 850	824.2	128	V	24.12	3.91	-3.03	24.99	38.45
			H	20.48	3.91	-3.03	21.35	38.45
	836.6	190	V	24.40	3.89	-3.07	25.22	38.45
			H	20.81	3.89	-3.07	21.63	38.45
	848.8	251	V	23.98	3.87	-3.11	24.74	38.45
			H	19.96	3.87	-3.11	20.73	38.45

Remark :

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
GSM 1900	1850.2	512	V	19.60	5.08	-4.67	20.01	33.00
			H	22.63	5.08	-4.67	23.04	33.00
	1880.0	661	V	18.83	5.00	-4.70	19.13	33.00
			H	22.56	5.00	-4.70	22.86	33.00
	1909.8	810	V	18.59	4.92	-4.74	18.77	33.00
			H	20.25	4.92	-4.74	20.43	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.20	128	V	24.35	3.91	-3.03	25.23	38.45
			H	20.48	3.91	-3.03	21.36	38.45
	836.60	190	V	24.44	3.89	-3.07	25.26	38.45
			H	20.84	3.89	-3.07	21.66	38.45
	848.80	251	V	24.17	3.87	-3.11	24.94	38.45
			H	20.04	3.87	-3.11	20.81	38.45

Remark :

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
GPRS 1900	1850.2	512	V	20.24	5.08	-4.67	20.65	33.00
			H	22.76	5.08	-4.67	23.17	33.00
	1880.0	661	V	18.95	5.00	-4.7	19.25	33.00
			H	23.15	5.00	-4.7	23.45	33.00
	1909.8	810	V	18.72	4.92	-4.74	18.90	33.00
			H	20.39	4.92	-4.74	20.57	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA Band II	1852.4	9262	V	19.41	5.08	-4.67	19.81	33.00
			H	20.83	5.08	-4.67	21.23	33.00
	1880.0	9400	V	19.38	5.01	-4.70	19.69	33.00
			H	21.12	5.00	-4.70	21.42	33.00
	1907.6	9538	V	17.98	4.93	-4.73	18.17	33.00
			H	18.90	4.93	-4.74	19.10	33.00

Remark :

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA Band V	826.4	4132	V	20.79	3.90	-3.03	21.66	38.45
			H	16.90	3.90	-3.03	17.77	38.45
	836.6	4183	V	21.24	3.89	-3.07	22.07	38.45
			H	17.39	3.89	-3.07	18.21	38.45
	846.6	4233	V	20.65	3.88	-3.10	21.43	38.45
			H	16.03	3.88	-3.10	16.80	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA Band II	1852.4	9262	V	18.84	5.07	-4.67	19.24	33.00
			H	20.76	5.08	-4.67	21.16	33.00
	1880.0	9400	V	18.34	5.00	-4.7	18.64	33.00
			H	20.89	5.00	-4.7	21.19	33.00
	1907.6	9538	V	17.95	4.93	-4.73	18.15	33.00
			H	18.86	4.93	-4.74	19.05	33.00

Remark :

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA Band V	826.4	4132	V	20.77	3.90	-3.03	21.64	38.45
			H	16.83	3.90	-3.03	17.70	38.45
	836.6	4183	V	21.19	3.89	-3.07	22.01	38.45
			H	17.34	3.89	-3.07	18.16	38.45
	846.6	4233	V	20.50	3.88	-3.1	21.28	38.45
			H	15.8	3.88	-3.1	16.58	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA Band II	1852.4	9262	V	18.61	5.08	-4.67	19.02	33.00
			H	20.77	5.08	-4.67	21.18	33.00
	1880.0	9400	V	18.21	5.01	-4.7	18.52	33.00
			H	21.00	5.00	-4.7	21.30	33.00
	1907.6	9538	V	17.71	4.93	-4.74	17.91	33.00
			H	18.89	4.93	-4.73	19.09	33.00

Remark :

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

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA Band V	826.4	4132	V	20.92	3.90	-3.03	21.79	38.45
			H	17.14	3.90	-3.03	18.01	38.45
	836.6	4183	V	21.35	3.89	-3.07	22.17	38.45
			H	17.41	3.89	-3.06	18.24	38.45
	846.6	4233	V	20.92	3.88	-3.10	21.70	38.45
			H	16.07	3.87	-3.10	16.85	38.45

Remark :

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

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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

8.2. Test Set-up:

Refer to section 6.2 in this report

8.3. Measurement Procedure:

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

Refer to next pages.

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.241
	836.60	190	0.245
	848.80	251	0.248

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.243
	1880.00	661	0.245
	1909.80	810	0.244

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.247
	836.60	190	0.249
	848.80	251	0.245

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.245
	1880.00	661	0.243
	1909.80	810	0.241

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.1417
	1880.00	9400	4.1505
	1907.60	9538	4.1394

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1587
	836.00	4183	4.1609
	846.60	4233	4.1542

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.1552
	1880.00	9400	4.1301
	1907.60	9538	4.1483

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1604
	836.60	4183	4.1558
	846.60	4233	4.1837

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.40	9262	4.1508
	1880.00	9400	4.1653
	1907.60	9538	4.1383

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1577
	836.60	4183	4.1490
	846.60	4233	4.1576

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Figure 8-1: GSM 850 Channel Low

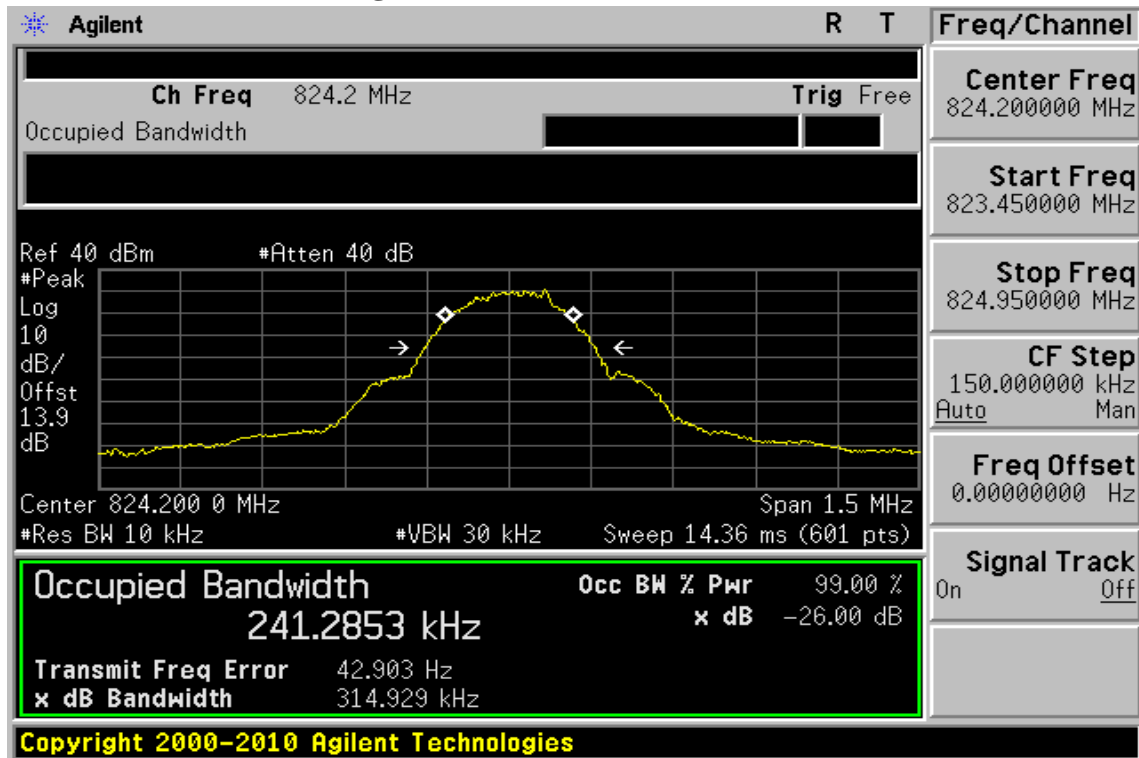
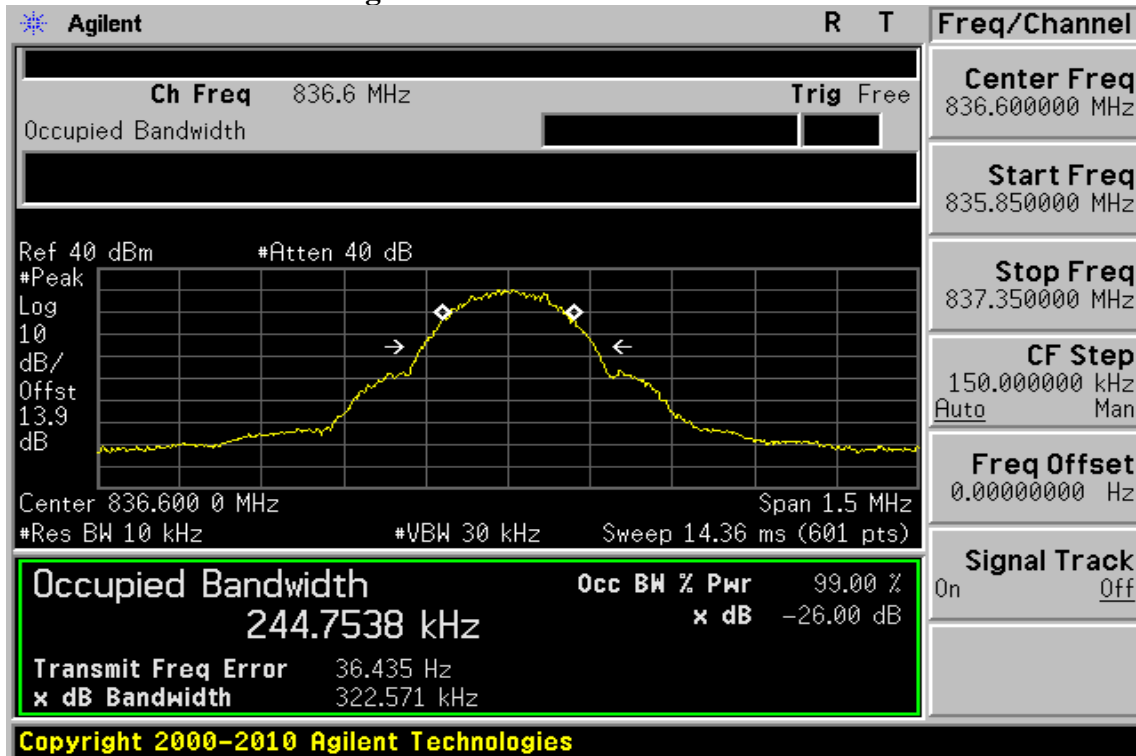


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

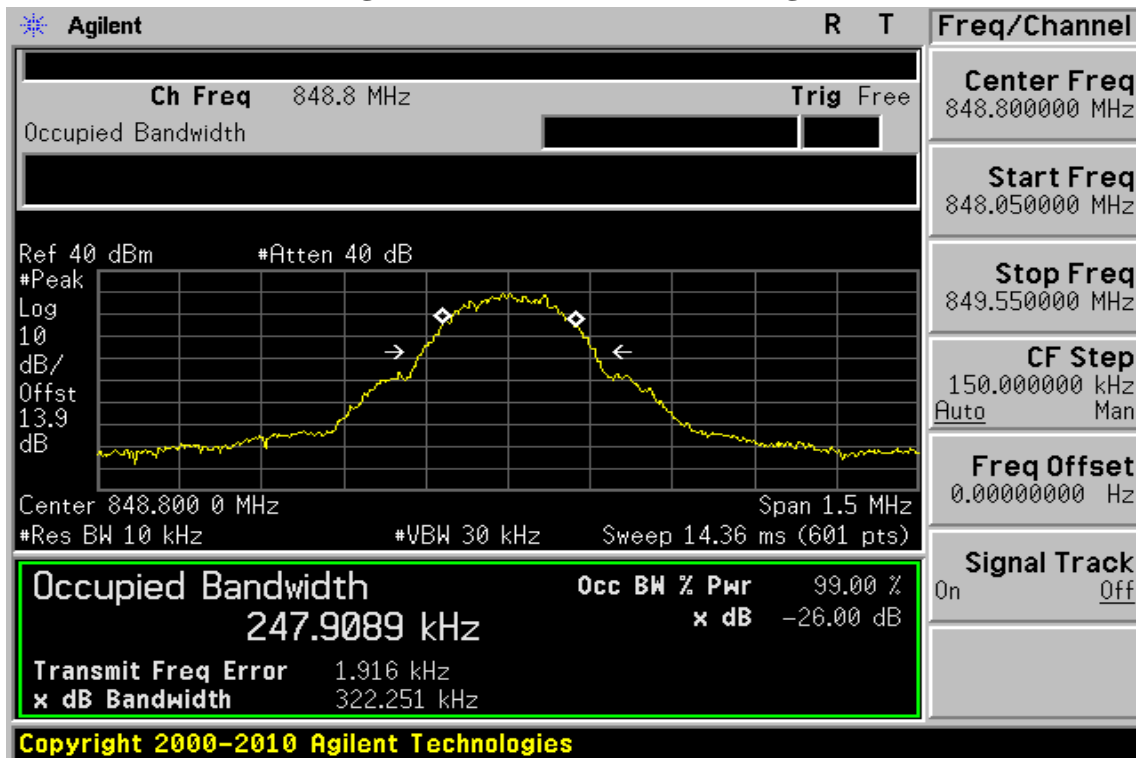
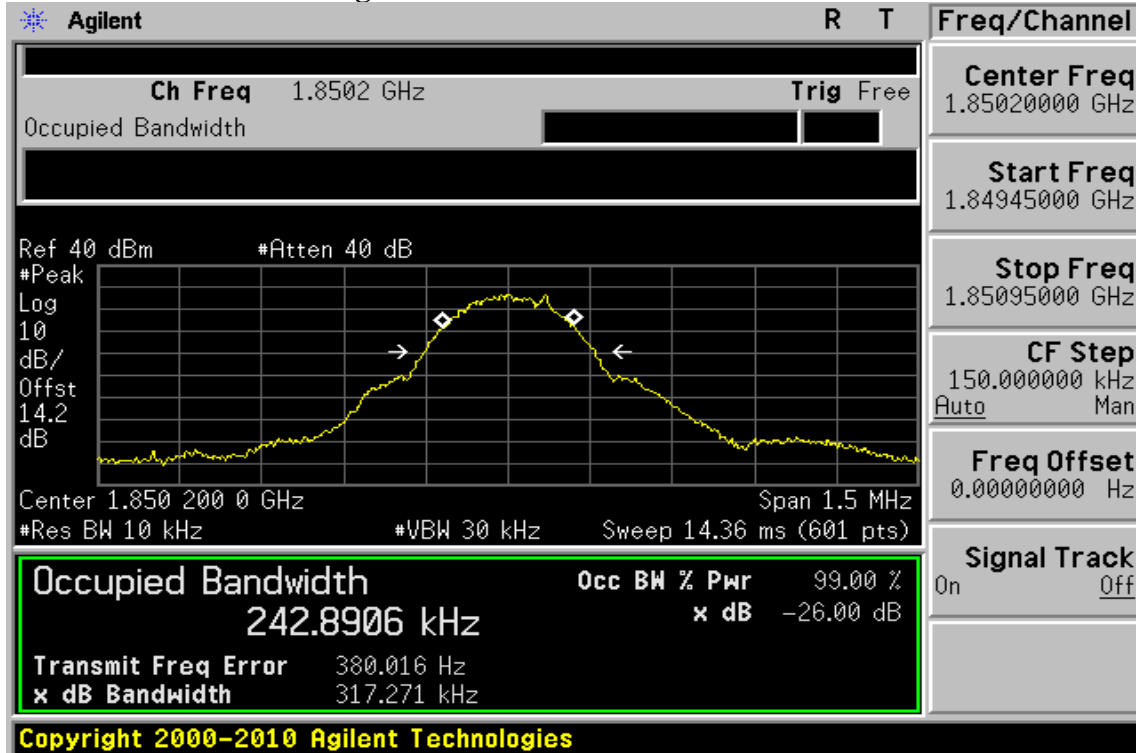


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

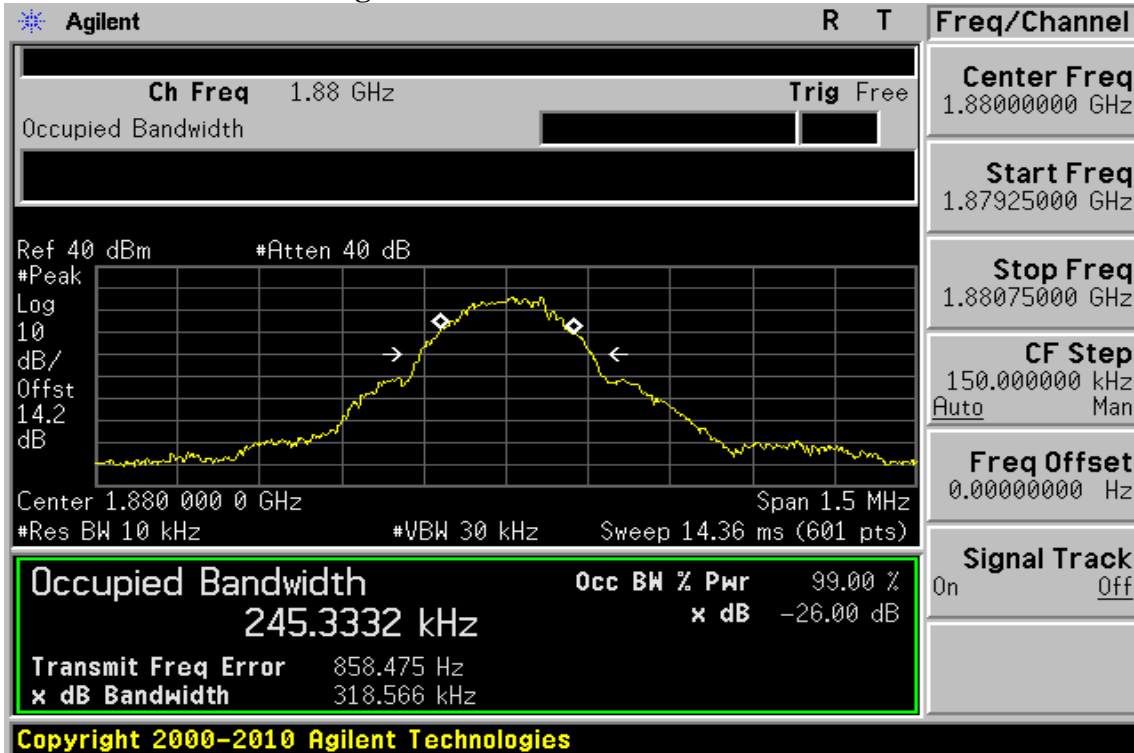
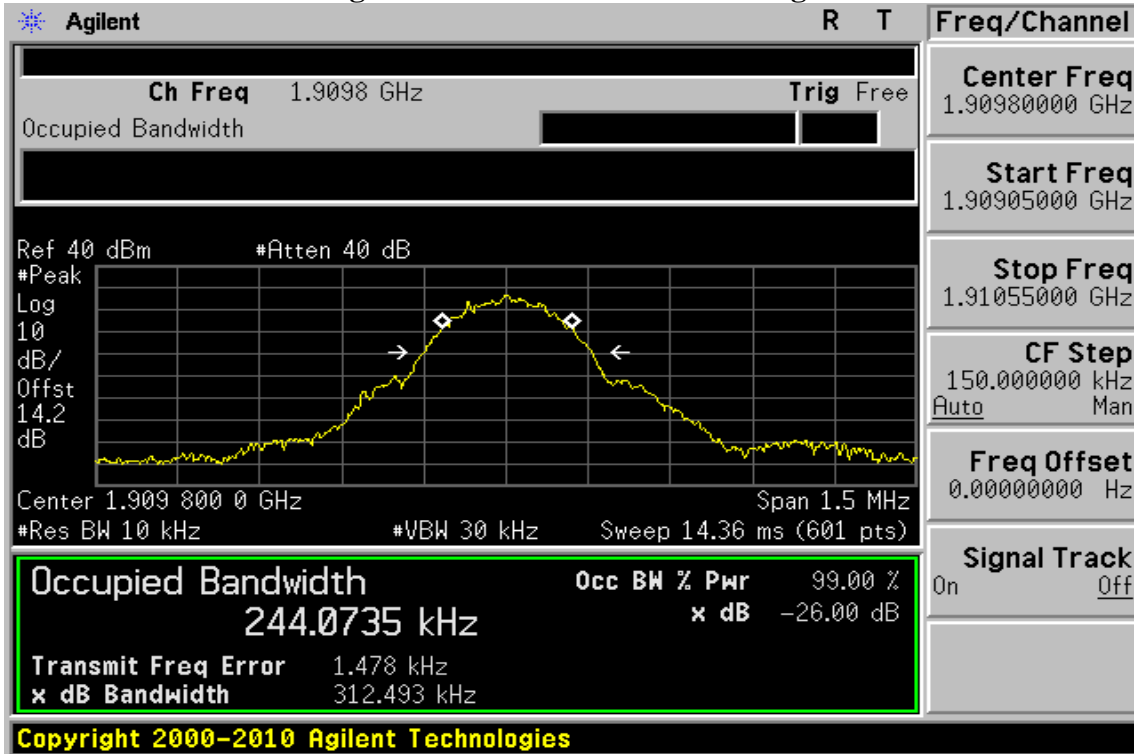


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

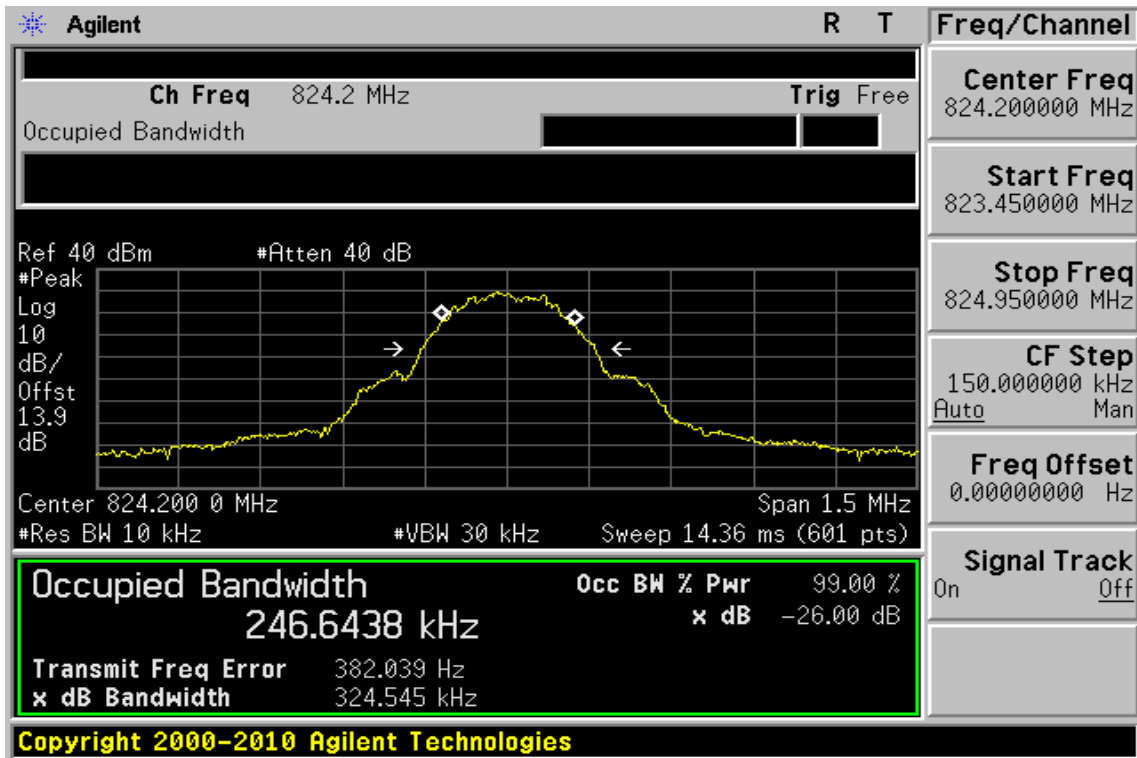
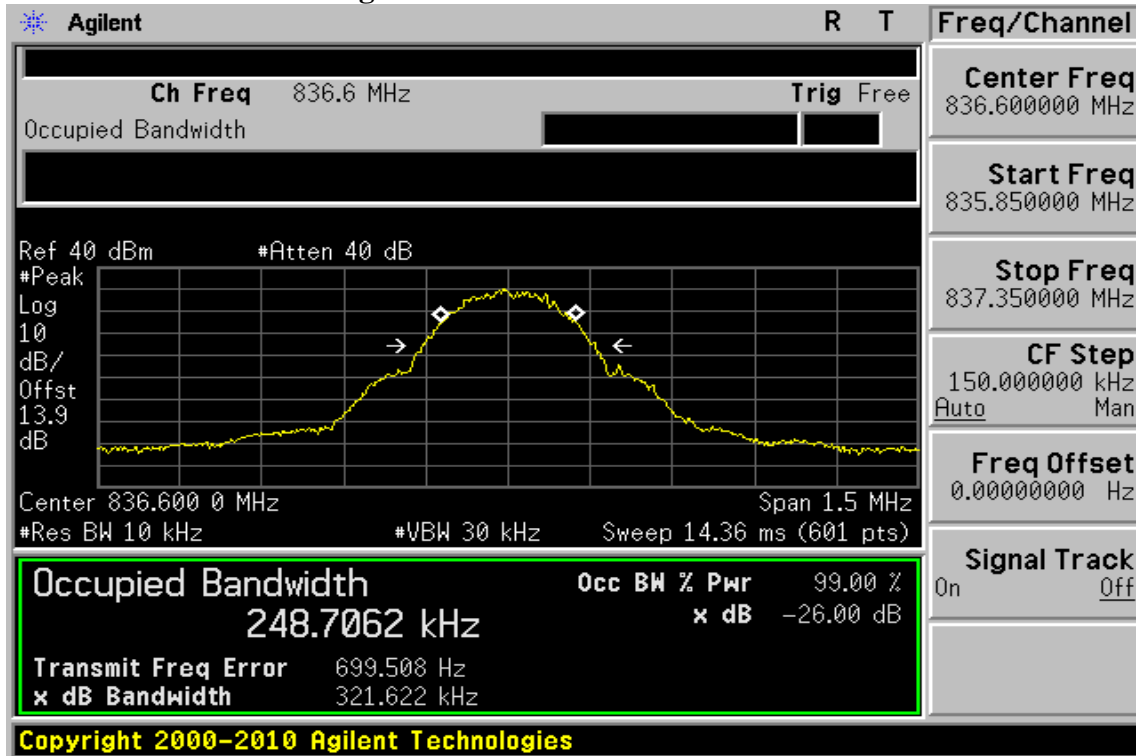


Figure 8-8: GPRS 850 Channel Mid



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GPRS Figure 8-9: GPRS 850 Channel High

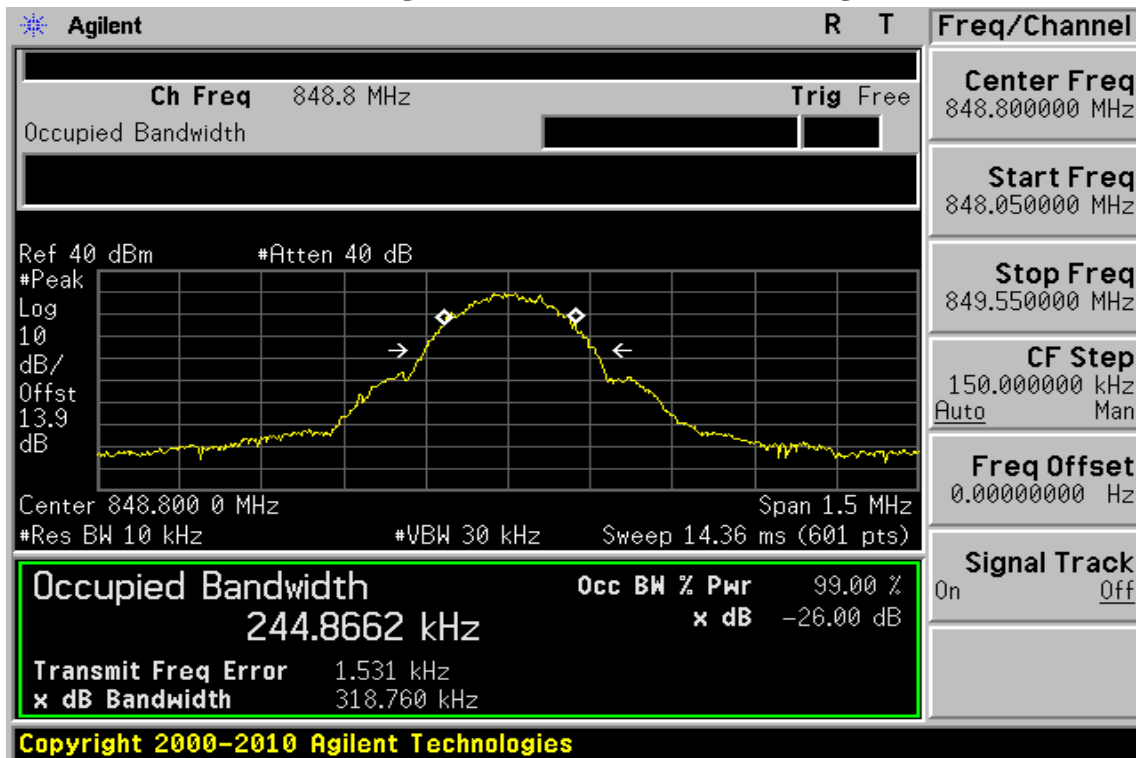
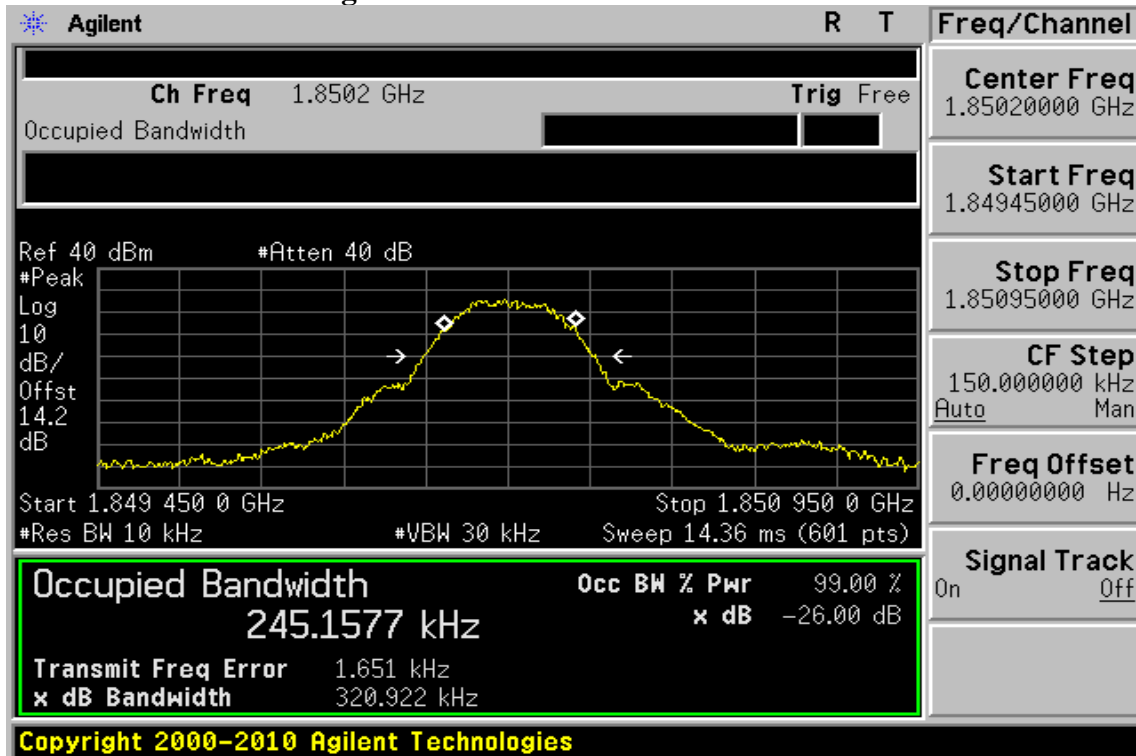


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11: GPRS 1900 Channel Mid

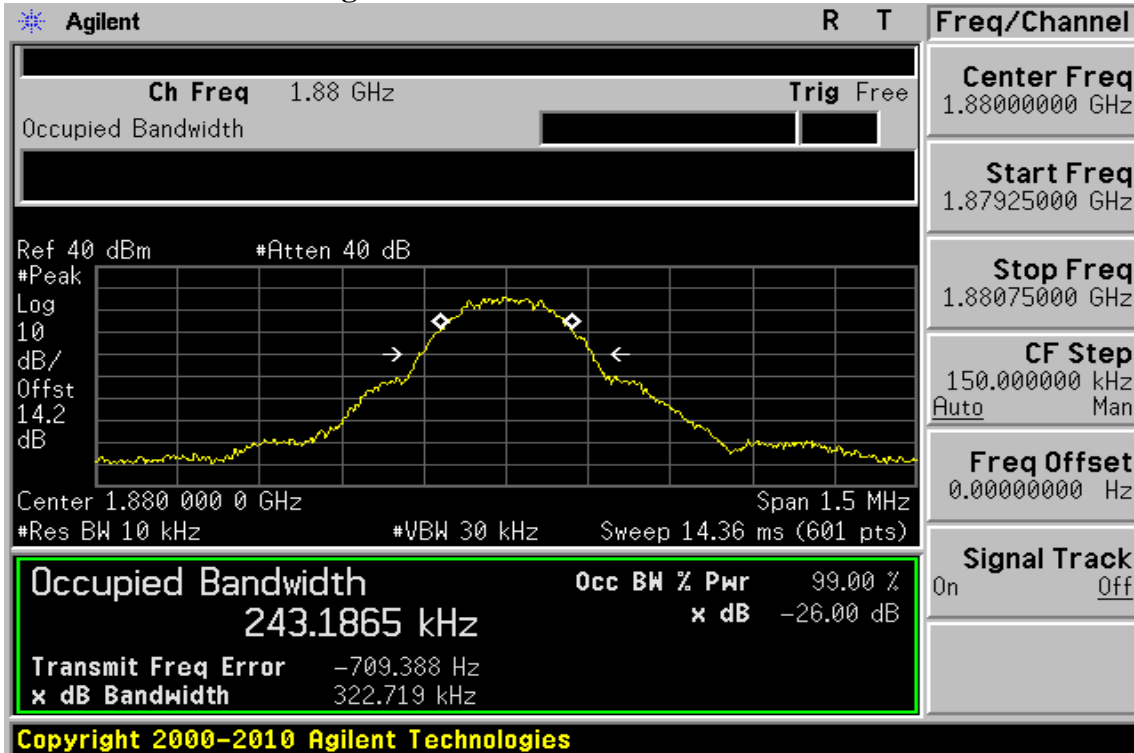
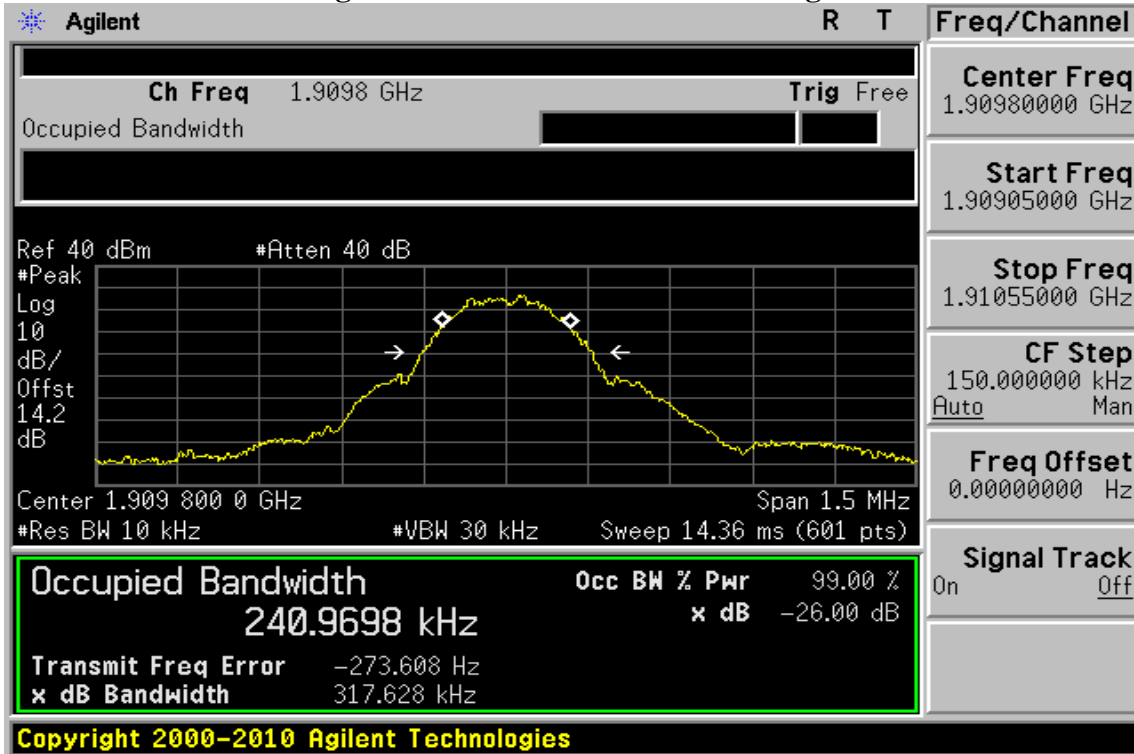


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: WCDMA II Channel Low

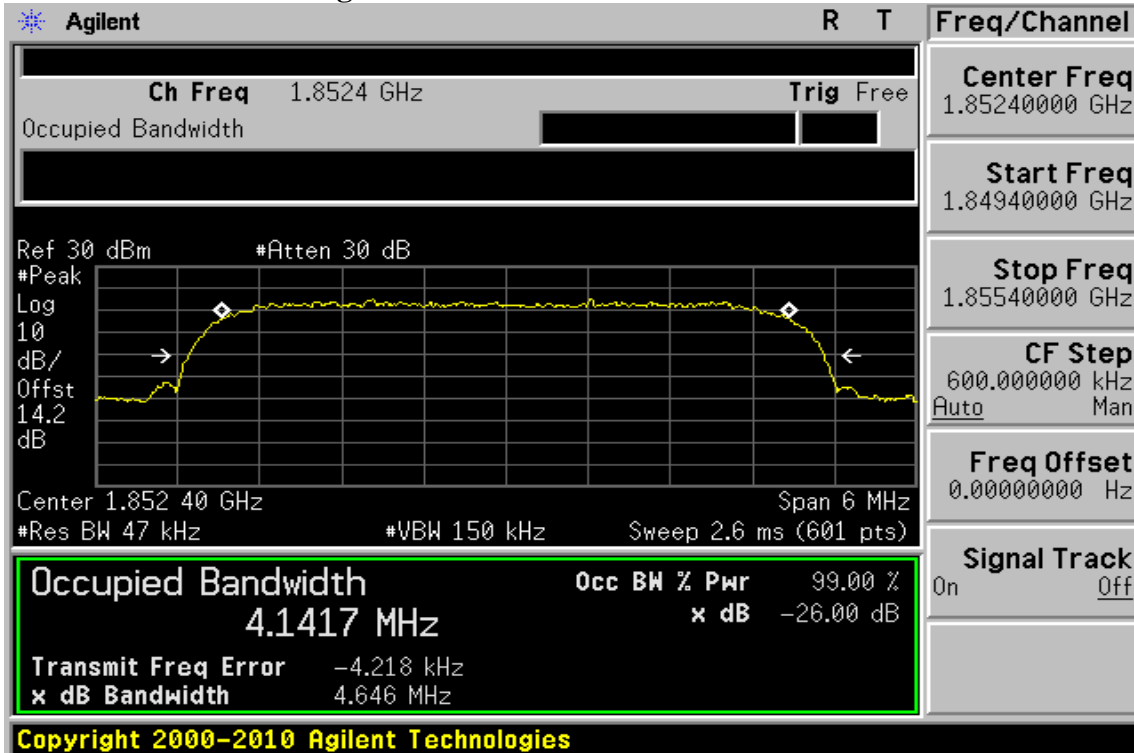
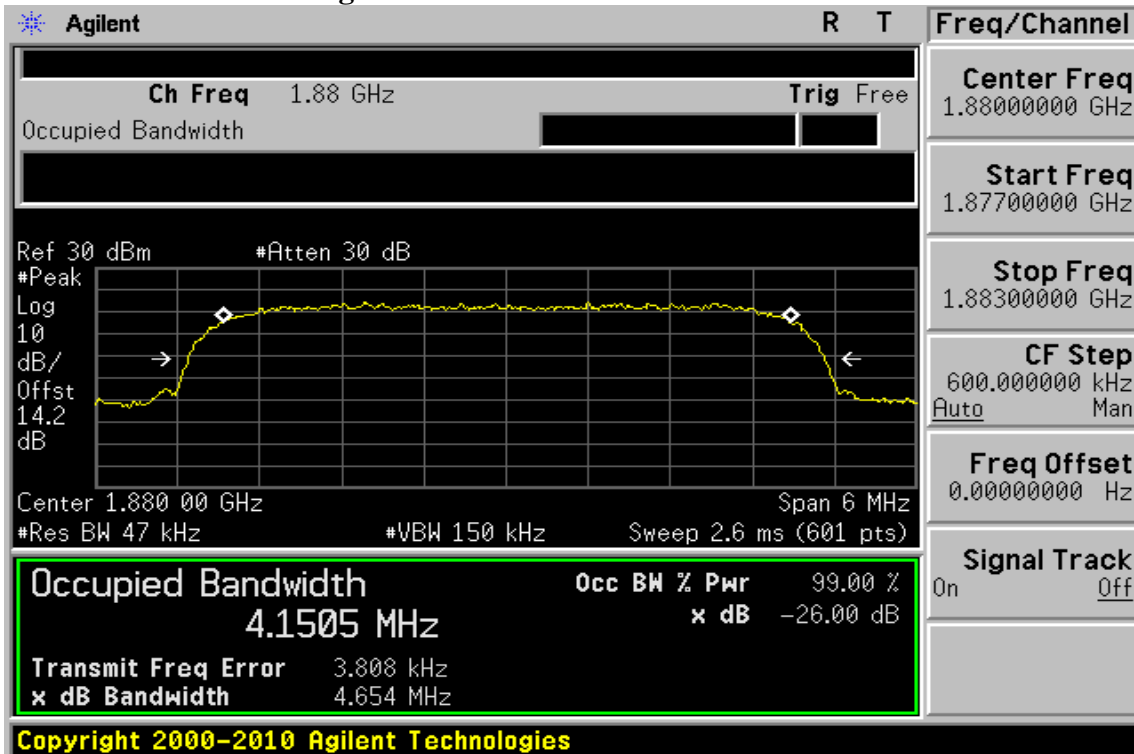


Figure 8-14: WCDMA II Channel Mid



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Figure 8-15: WCDMA II Channel High

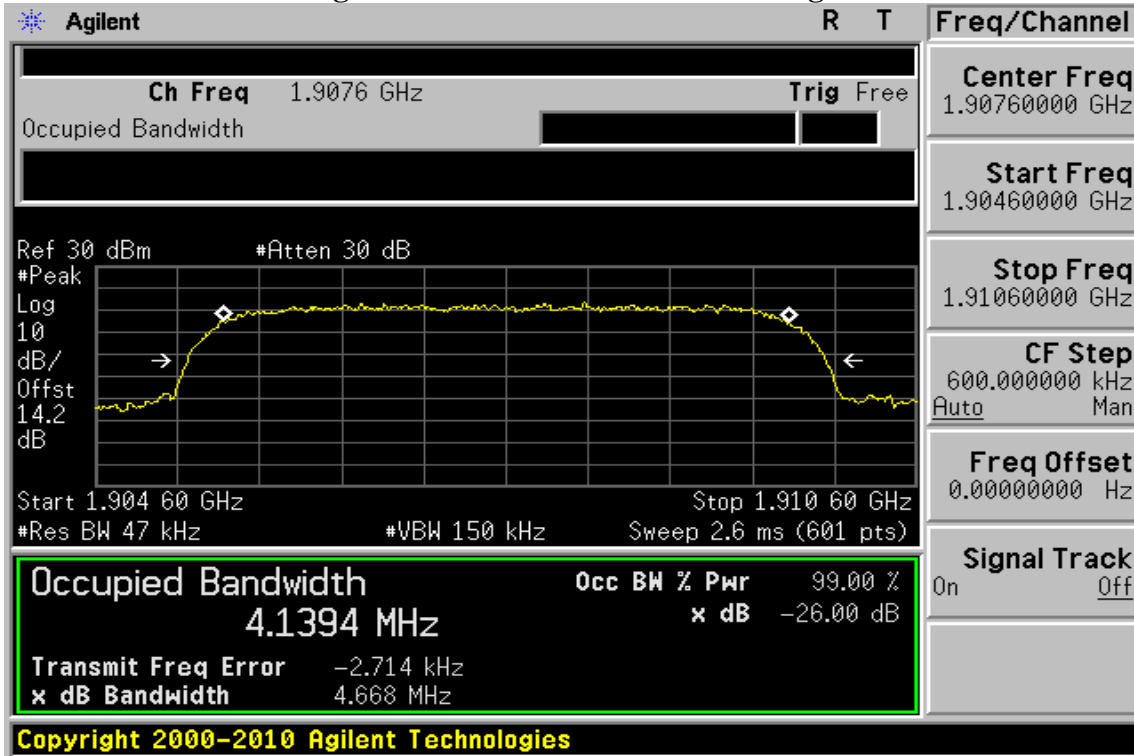
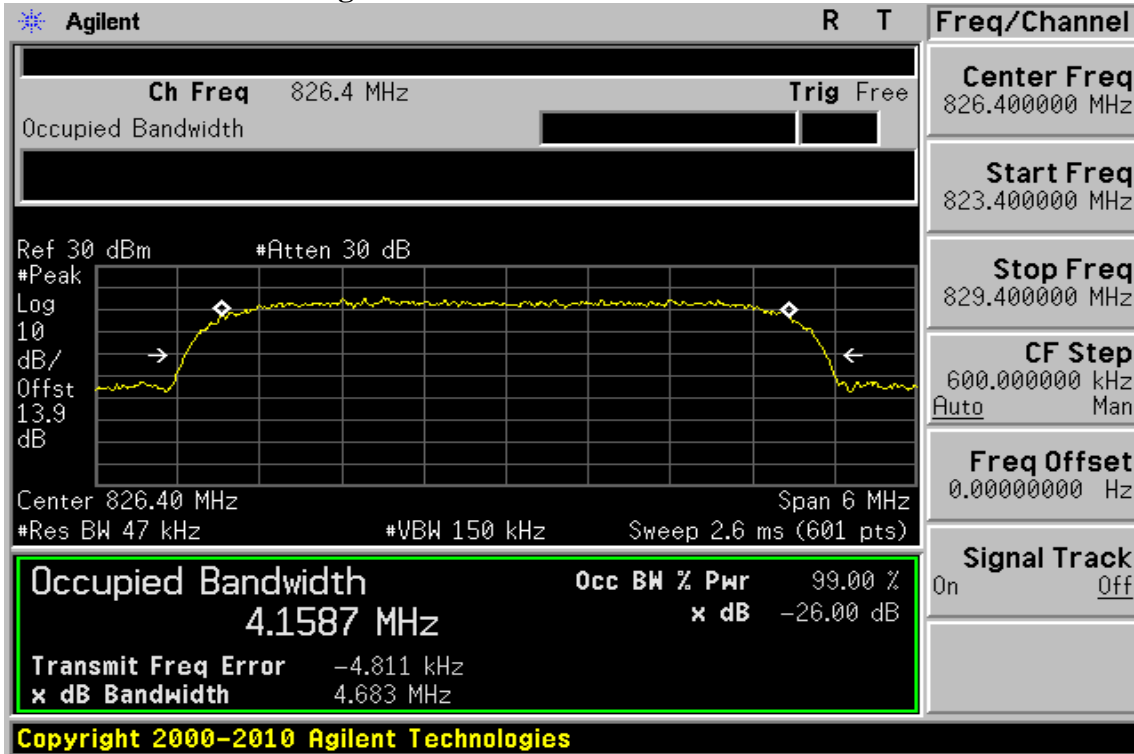


Figure 8-16: WCDMA V Channel Low



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Figure 8-17: WCDMA V Channel Mid

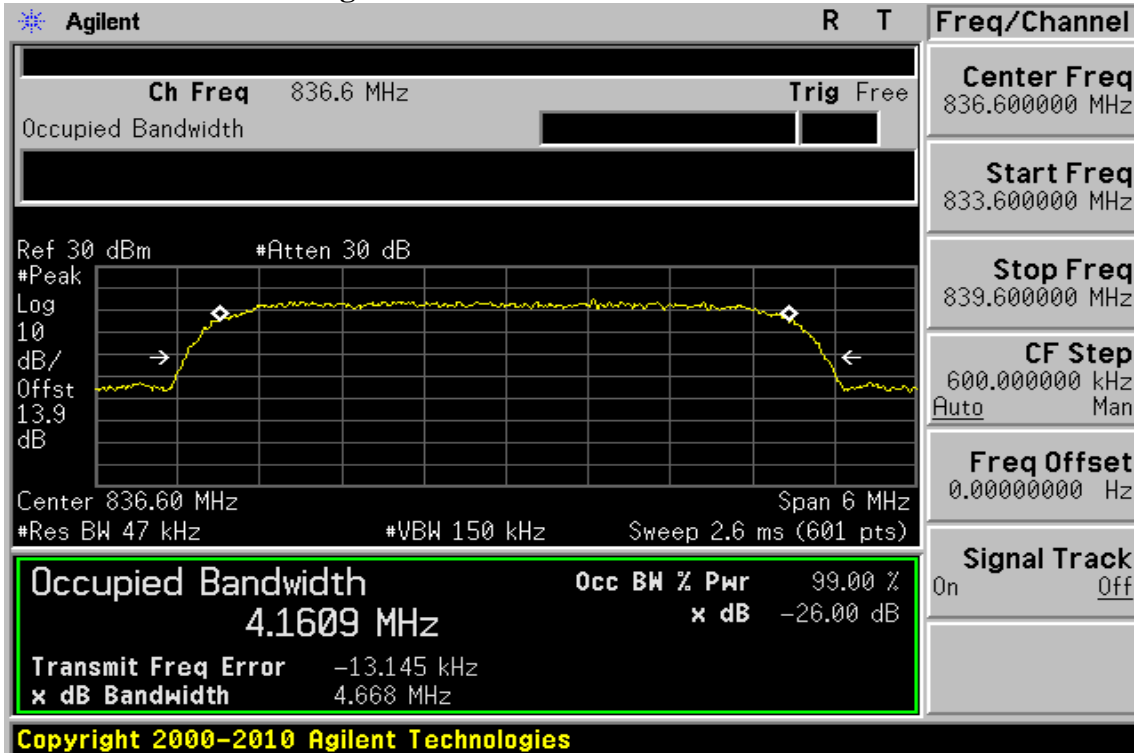
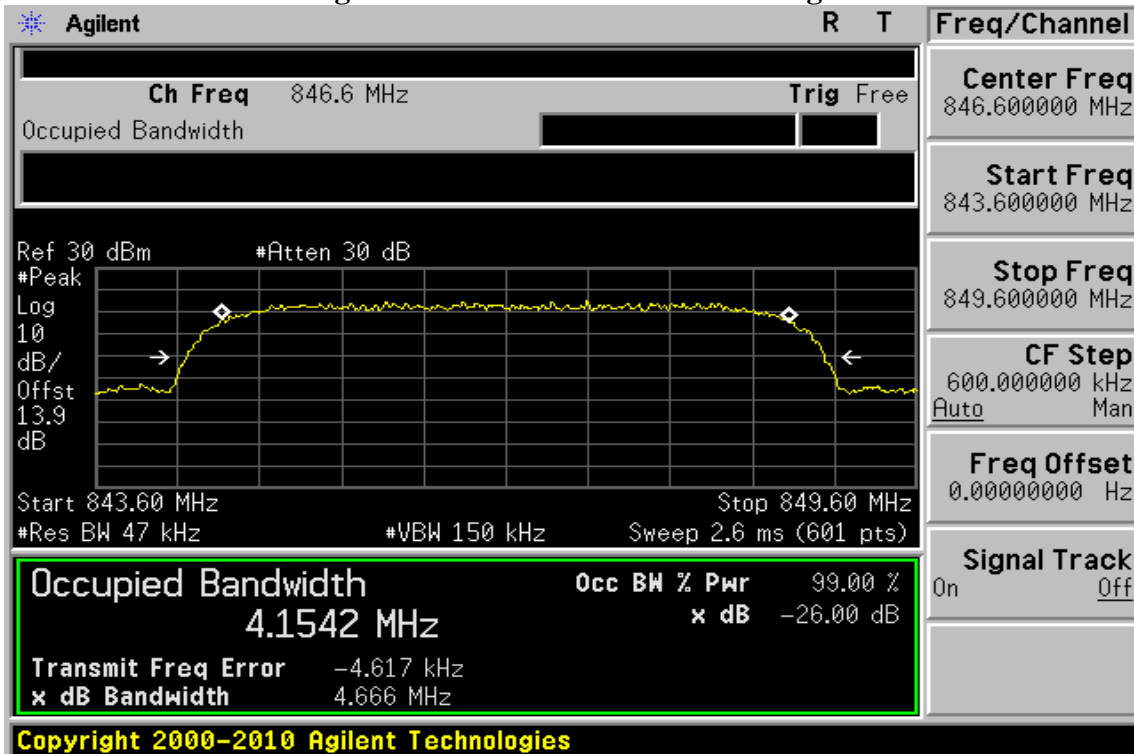


Figure 8-18: WCDMA V Channel High



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Figure 8-19: HSDPA II Channel Low

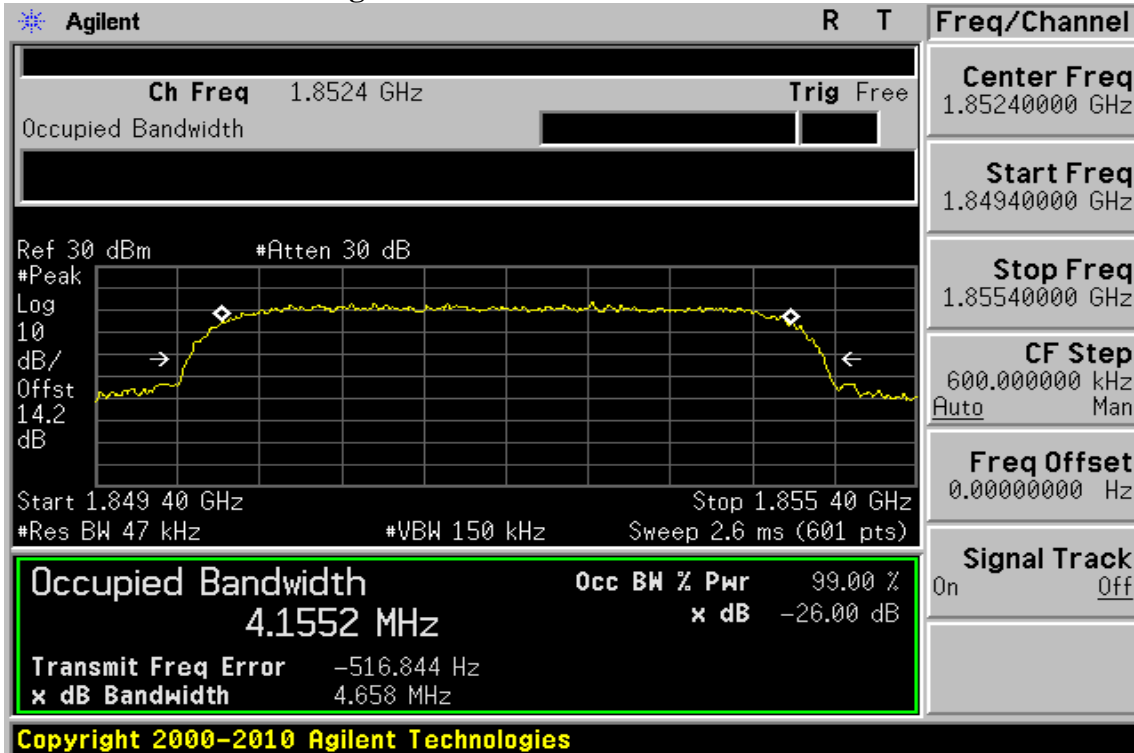
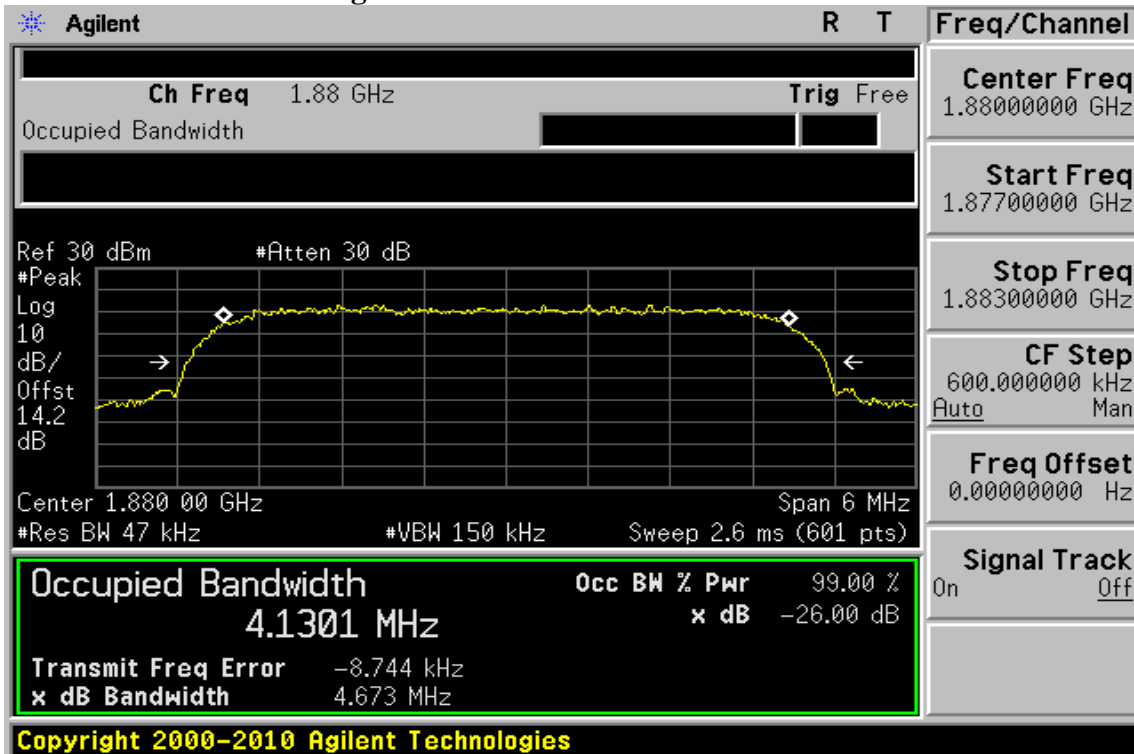


Figure 8-20: HSDPA II Channel Mid



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Figure 8-21: HSDPA II Channel High

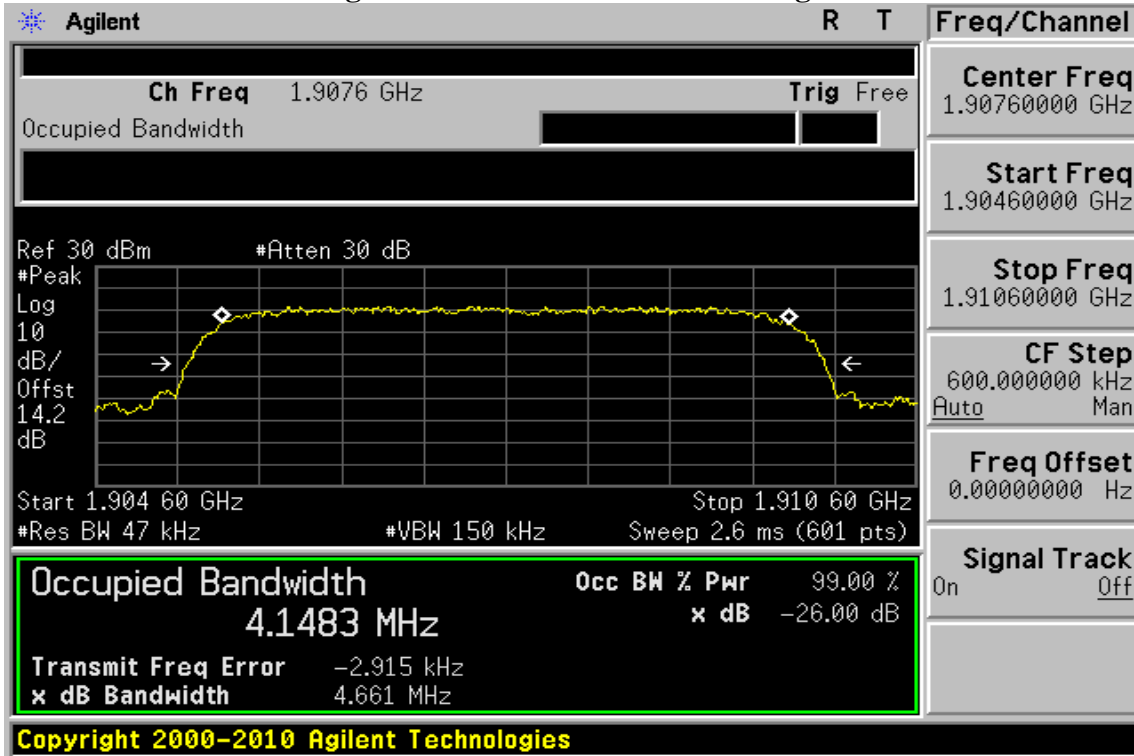
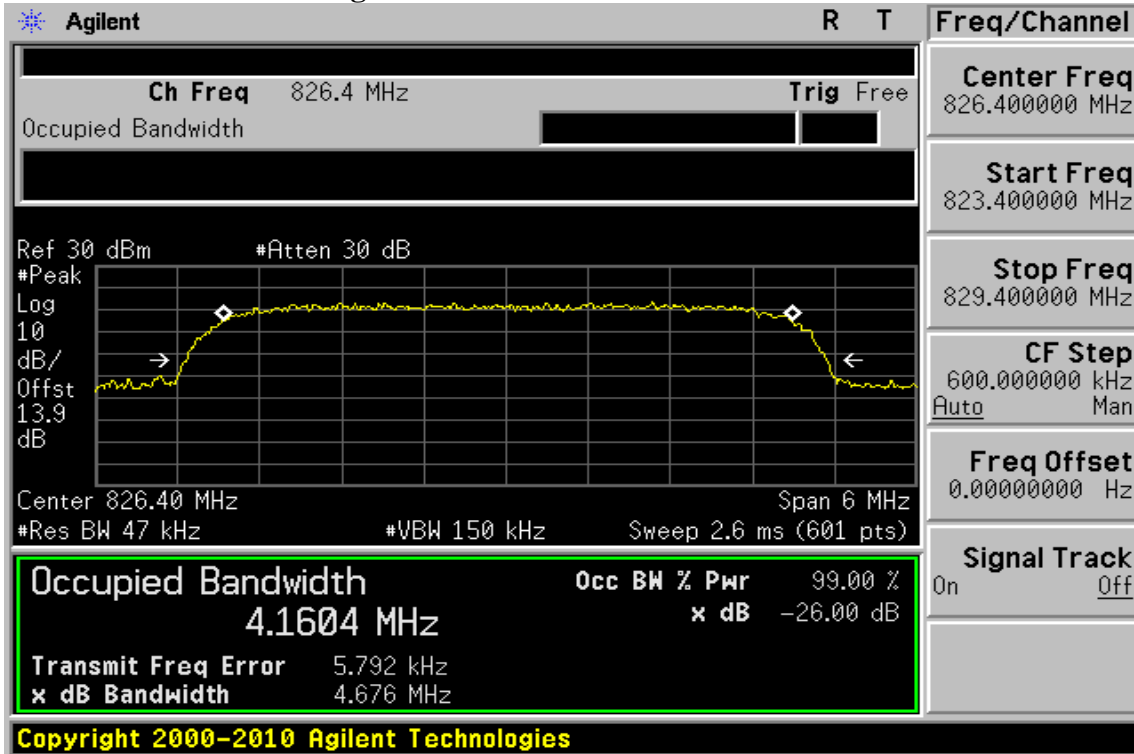


Figure 8-22: HSDPA V Channel Low



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Figure 8-23: HSDPA V Channel Mid

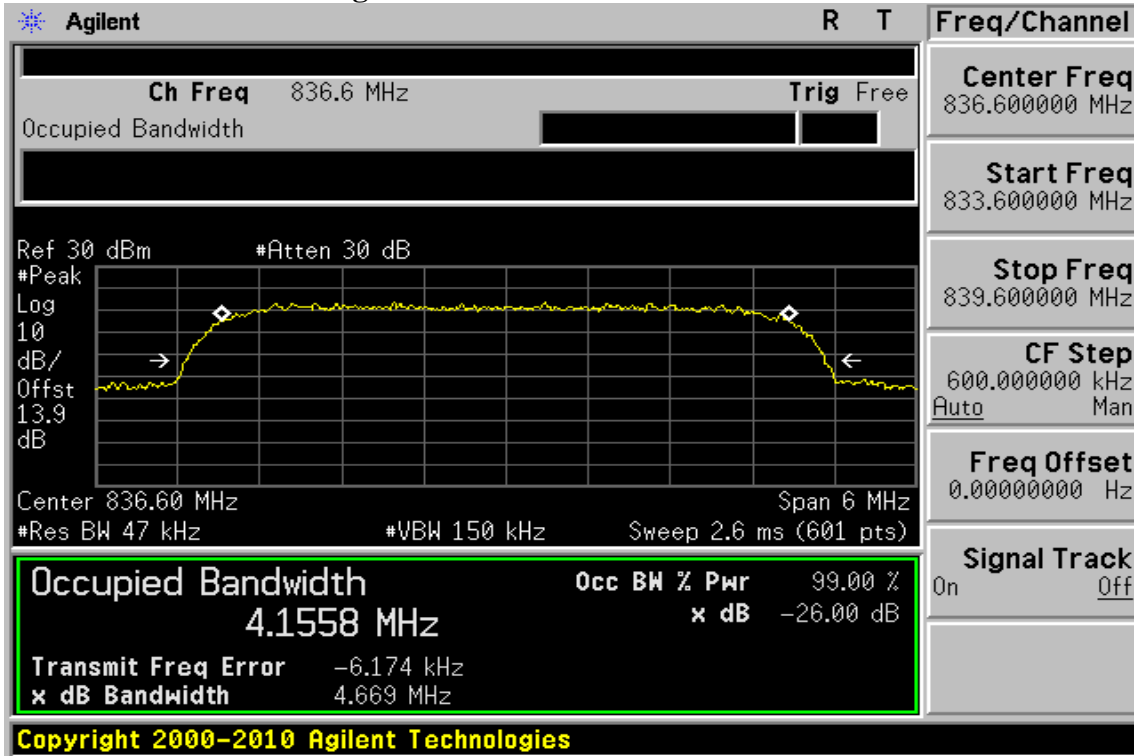
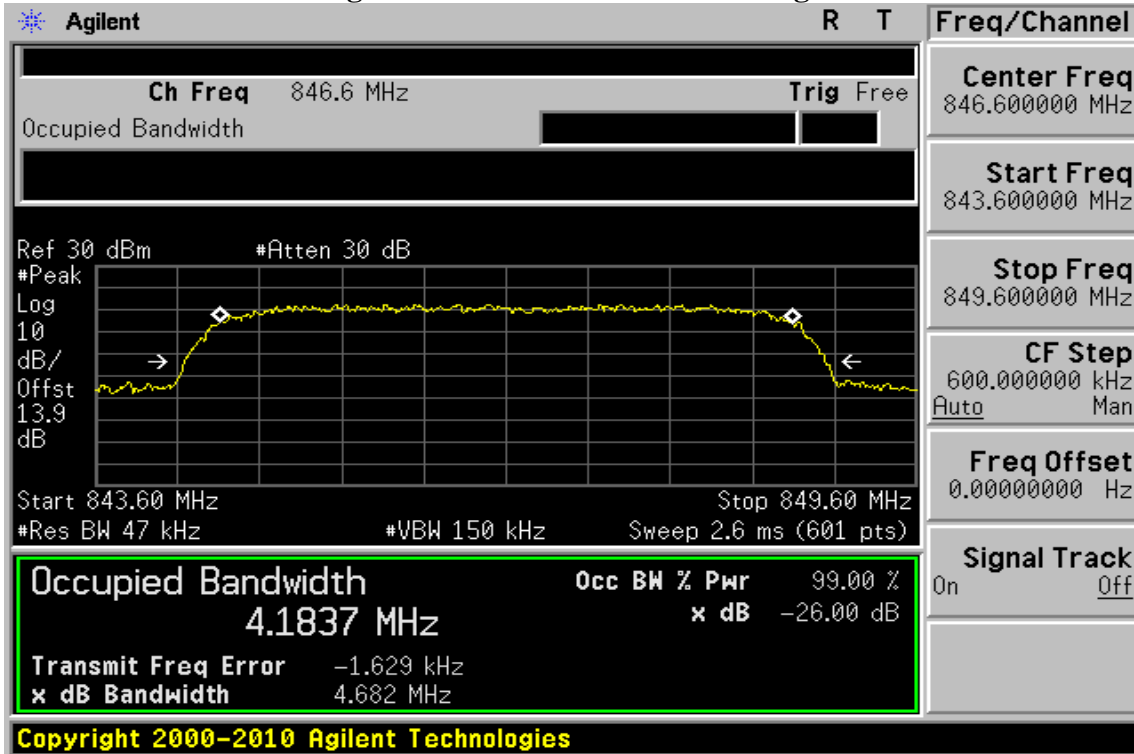


Figure 8-24: HSDPA V Channel High



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Figure 8-25: HSUPA II Channel Low

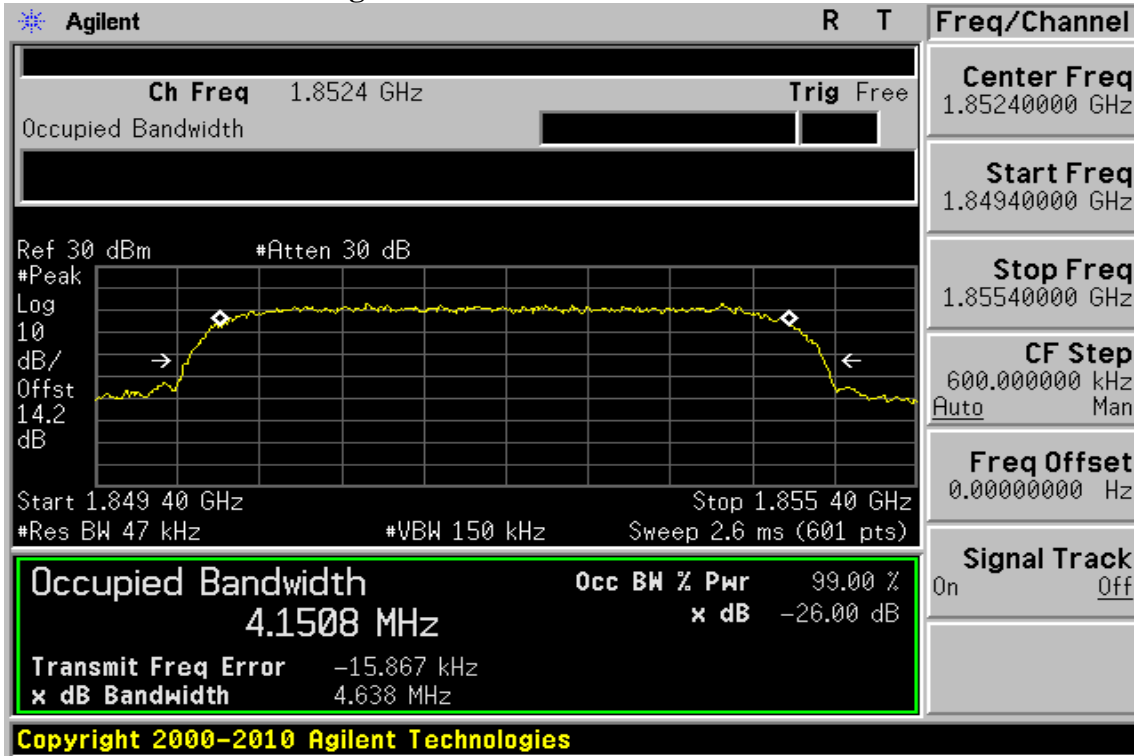
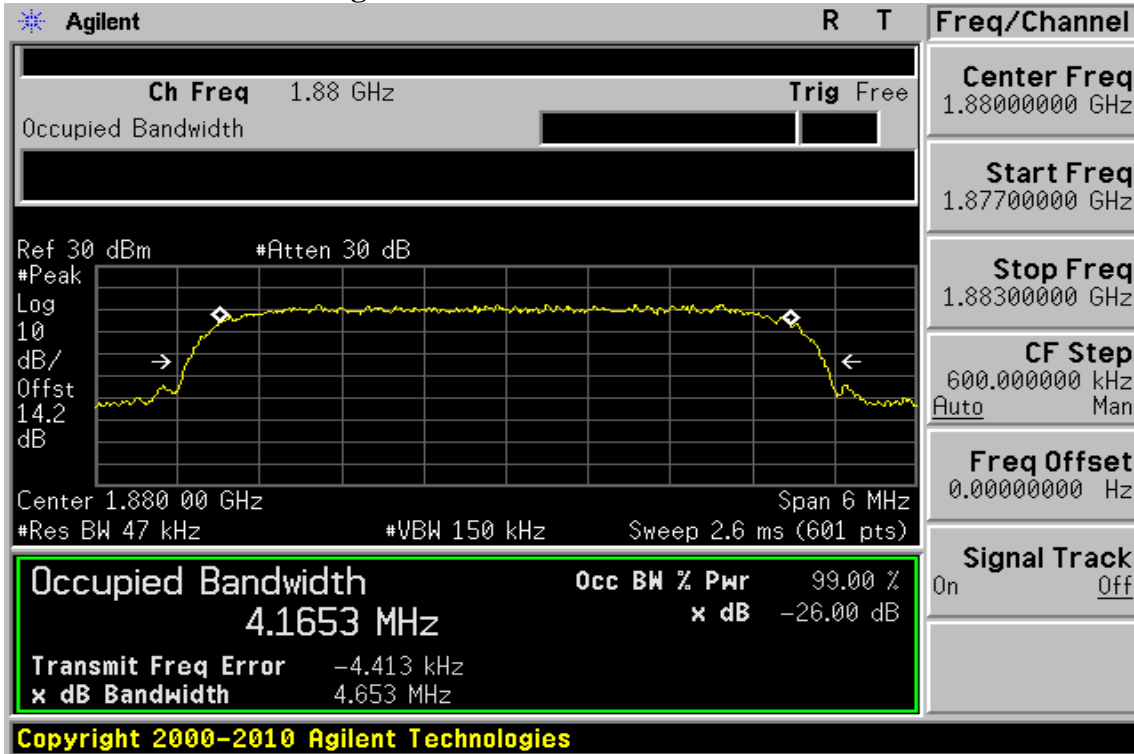


Figure 8-26: HSUPA II Channel Mid



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Figure 8-27: HSUPA II Channel High

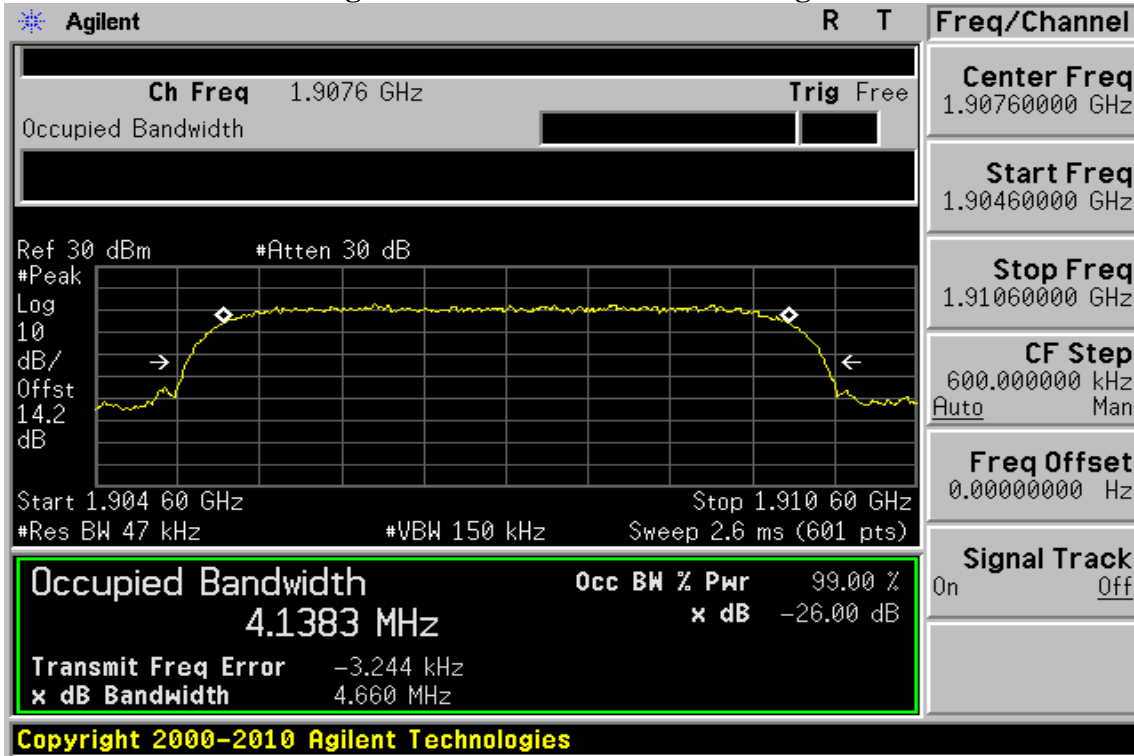
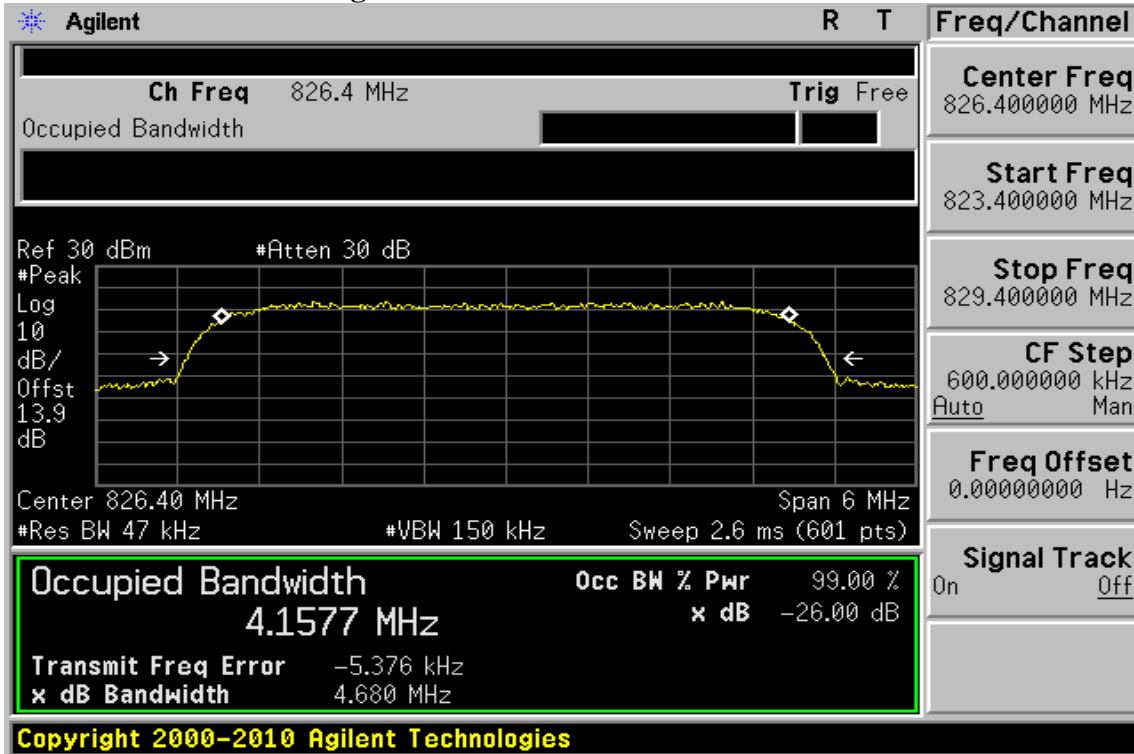


Figure 8-28: HSUPA V Channel Low



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Figure 8-29: HSUPA V Channel Mid

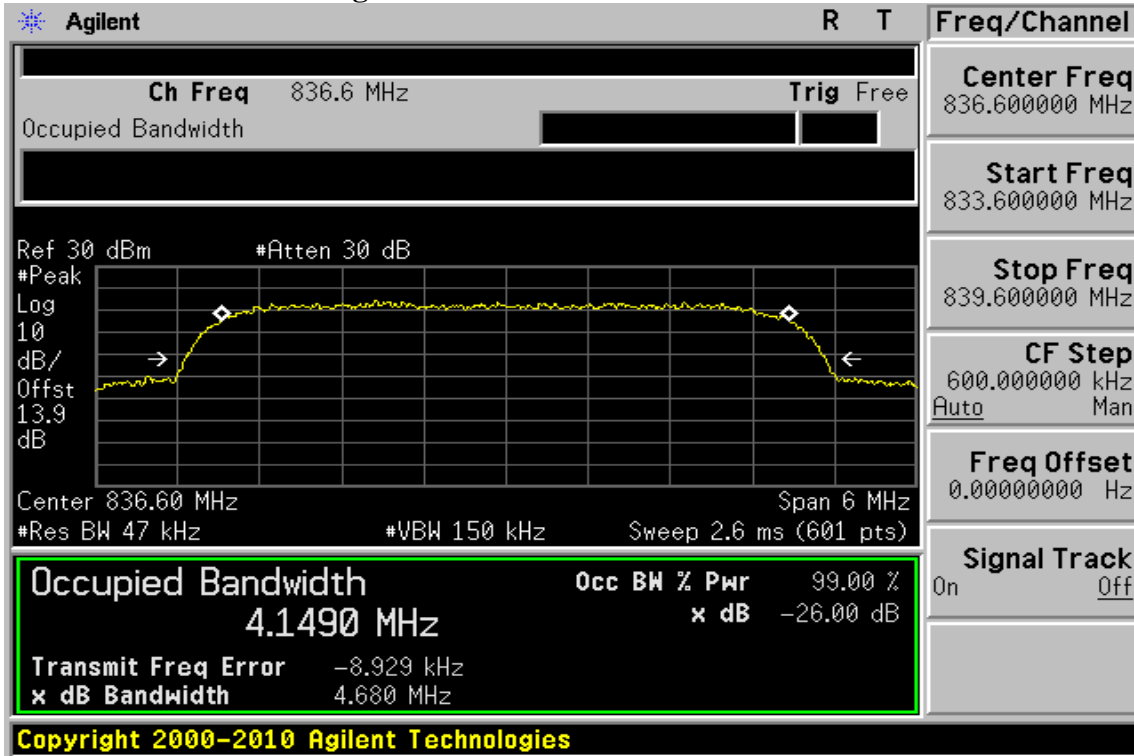
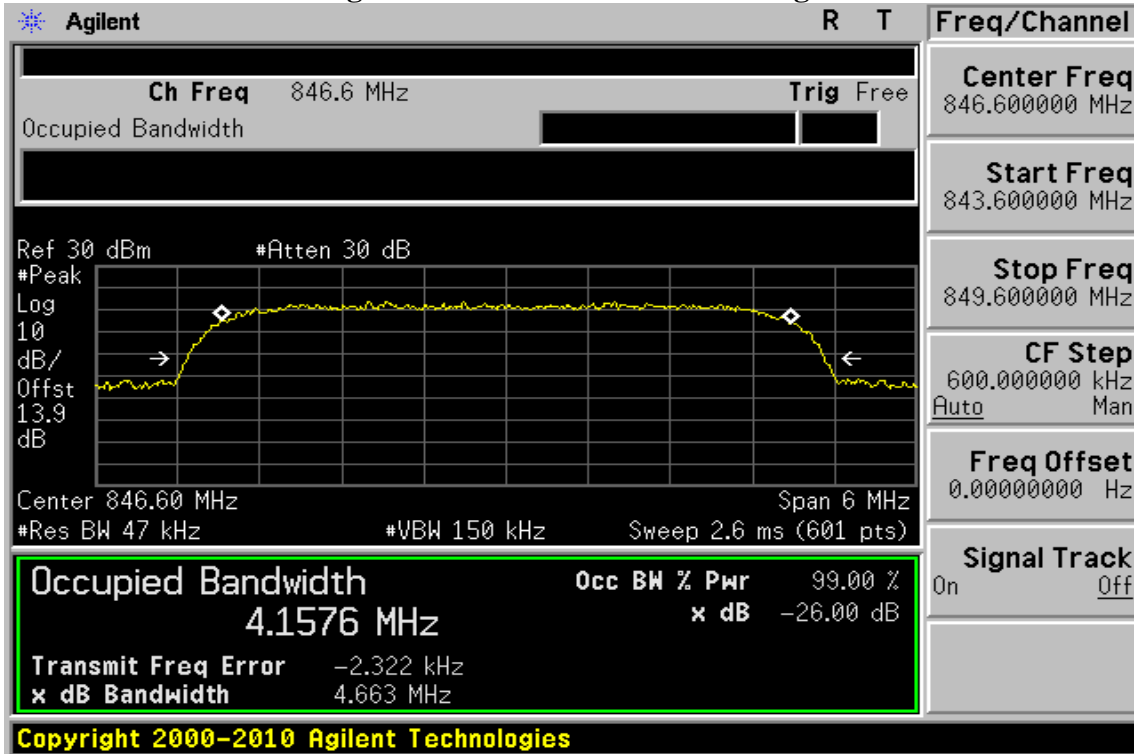


Figure 8-30: HSUPA V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

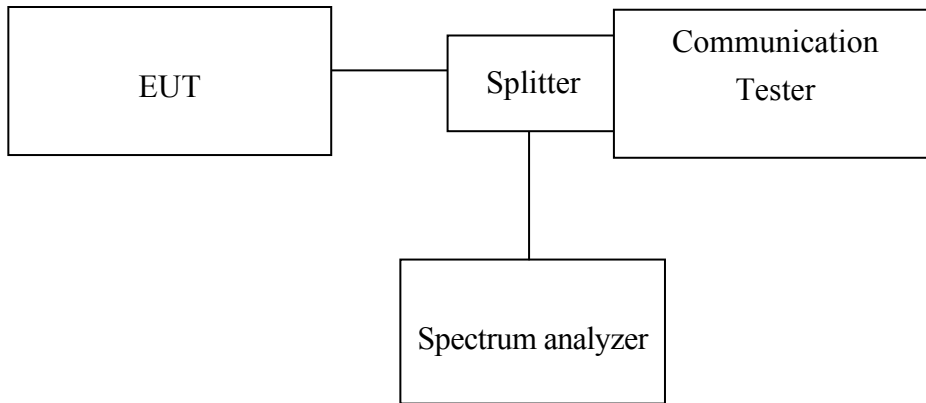
9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a) 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).

9.2. Test SET-UP:

Out of band emission



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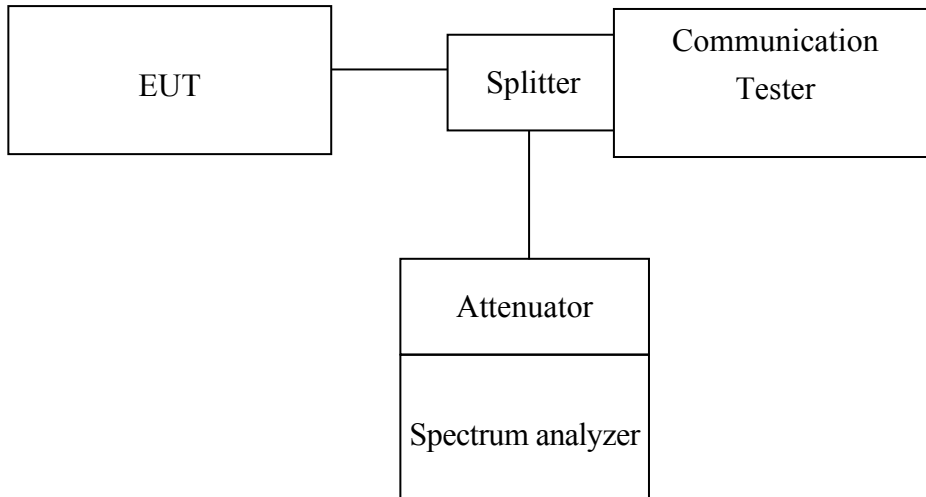
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Band Edge



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9.3. Measurement Procedure:

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

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

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

Conducted Emission:

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to next pages.

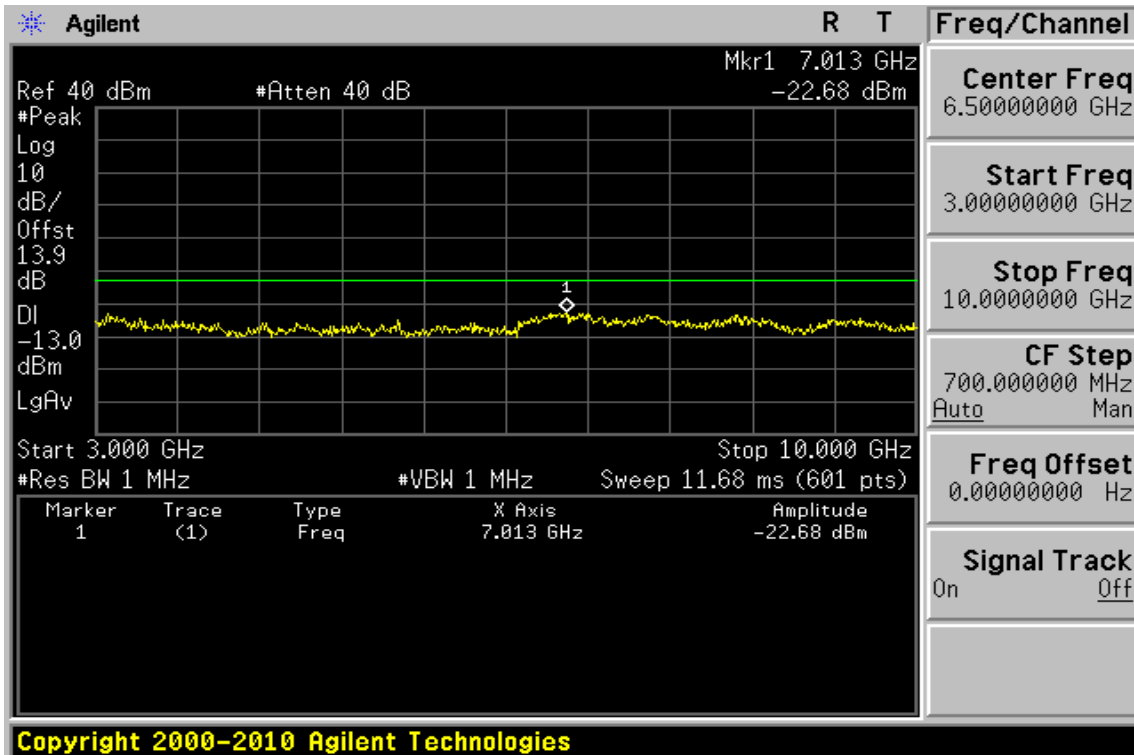
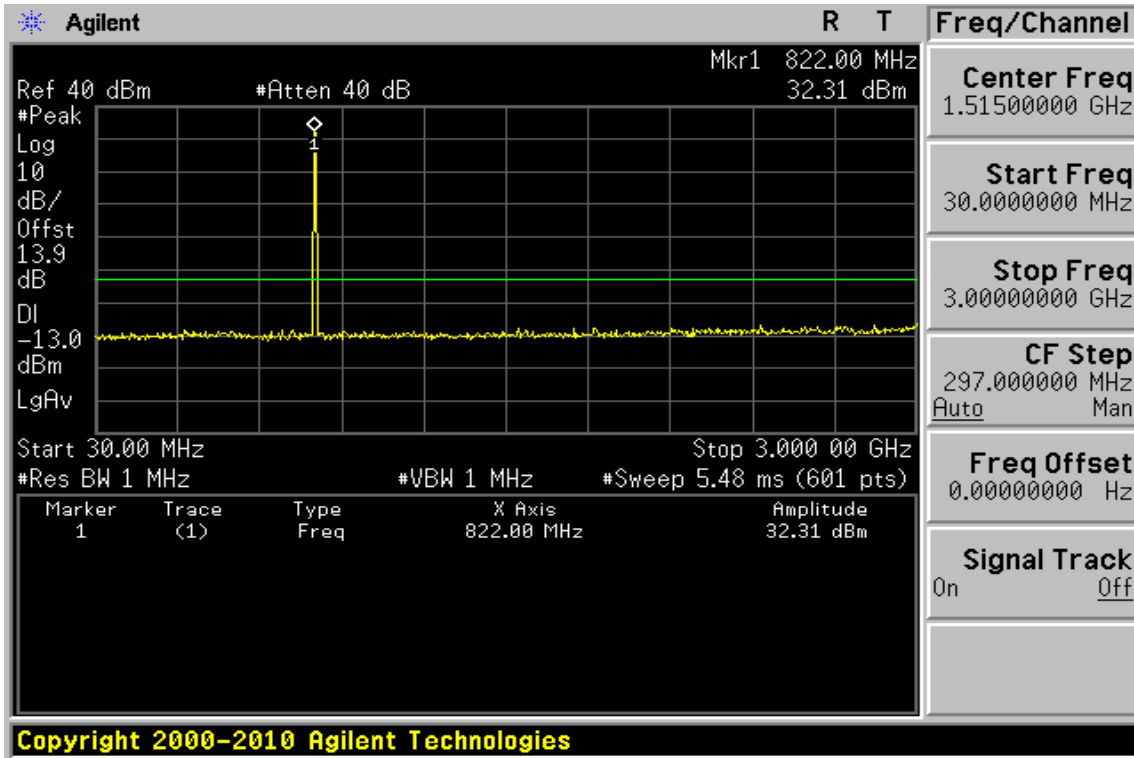
NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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



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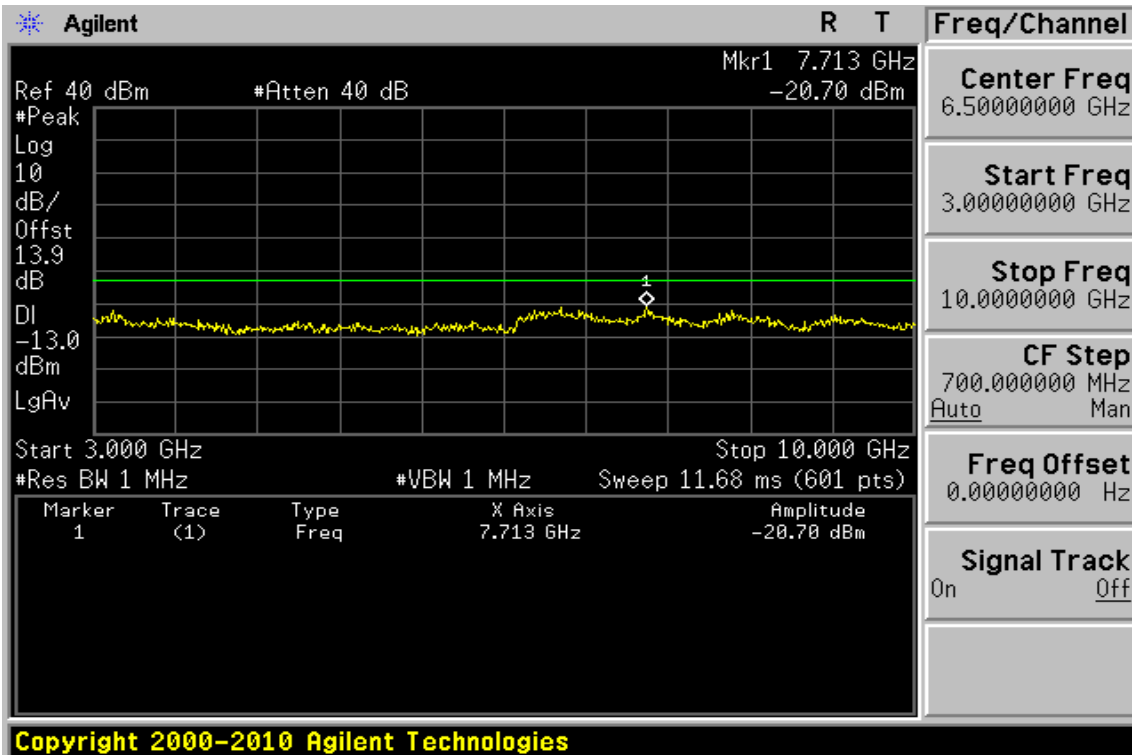
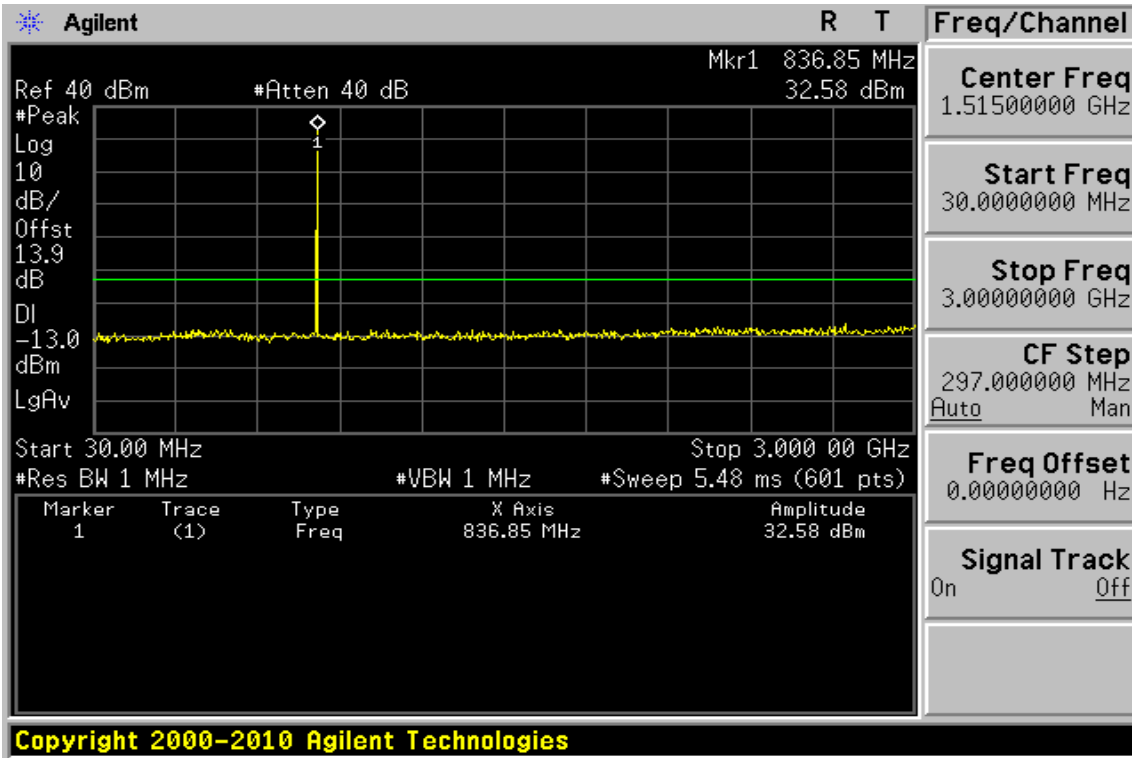
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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



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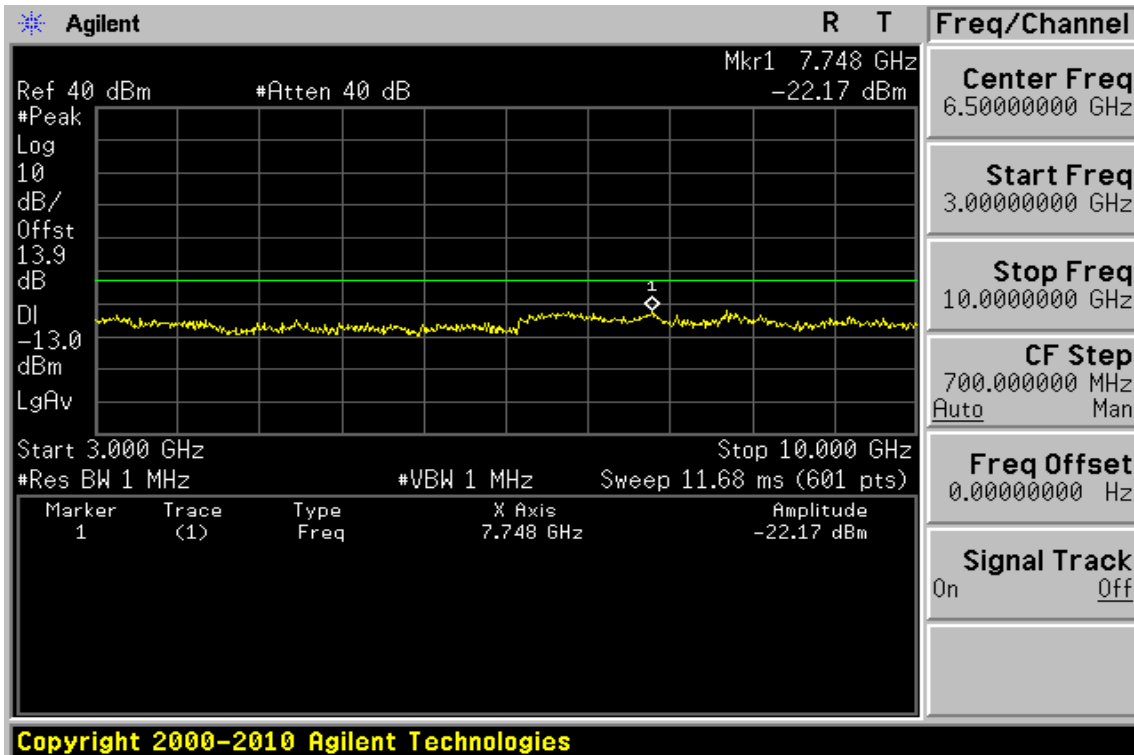
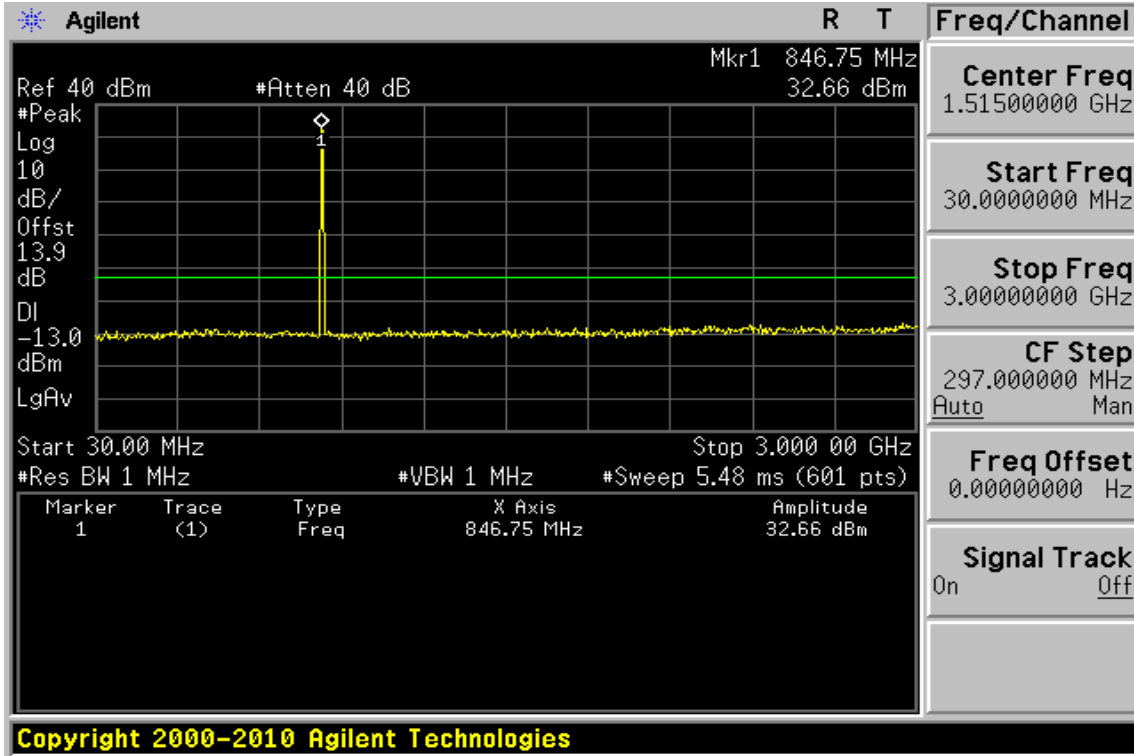
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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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

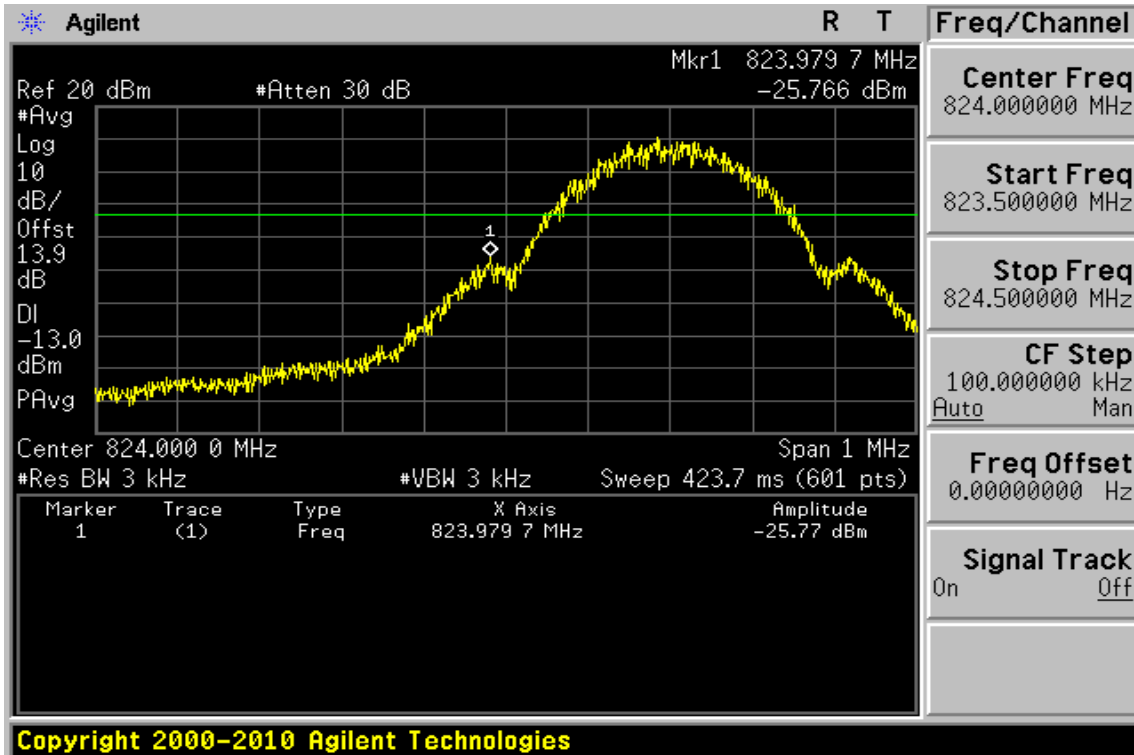
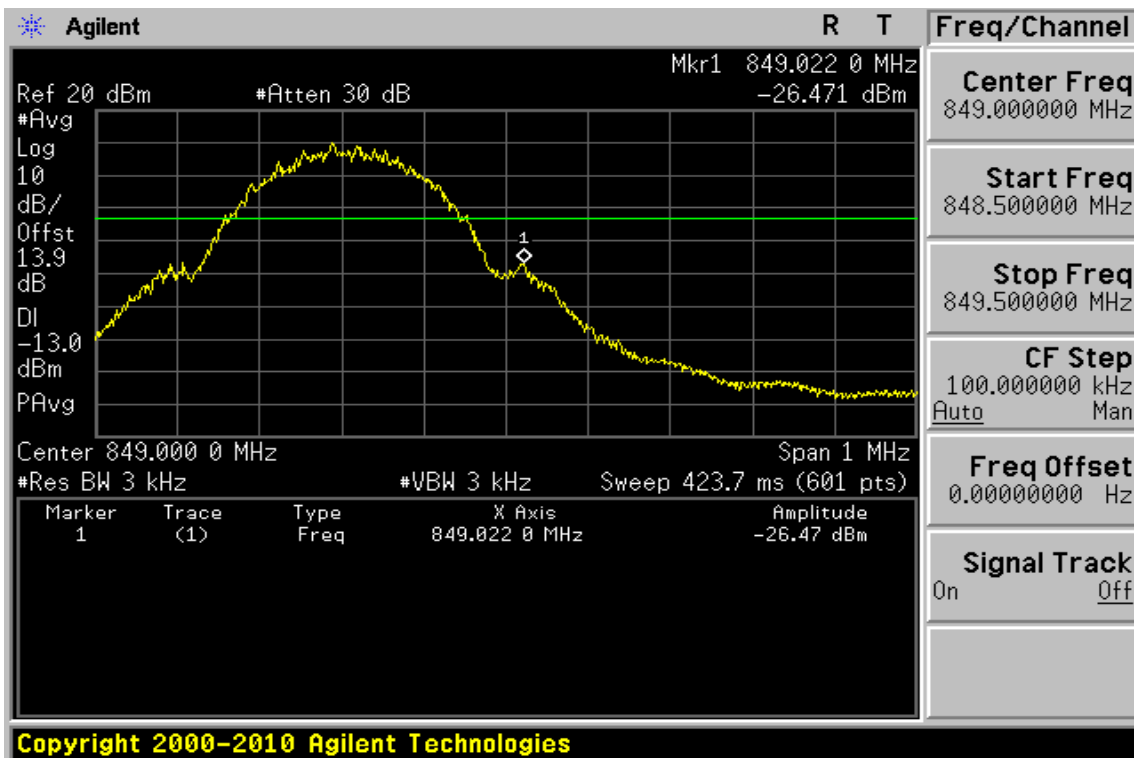


Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



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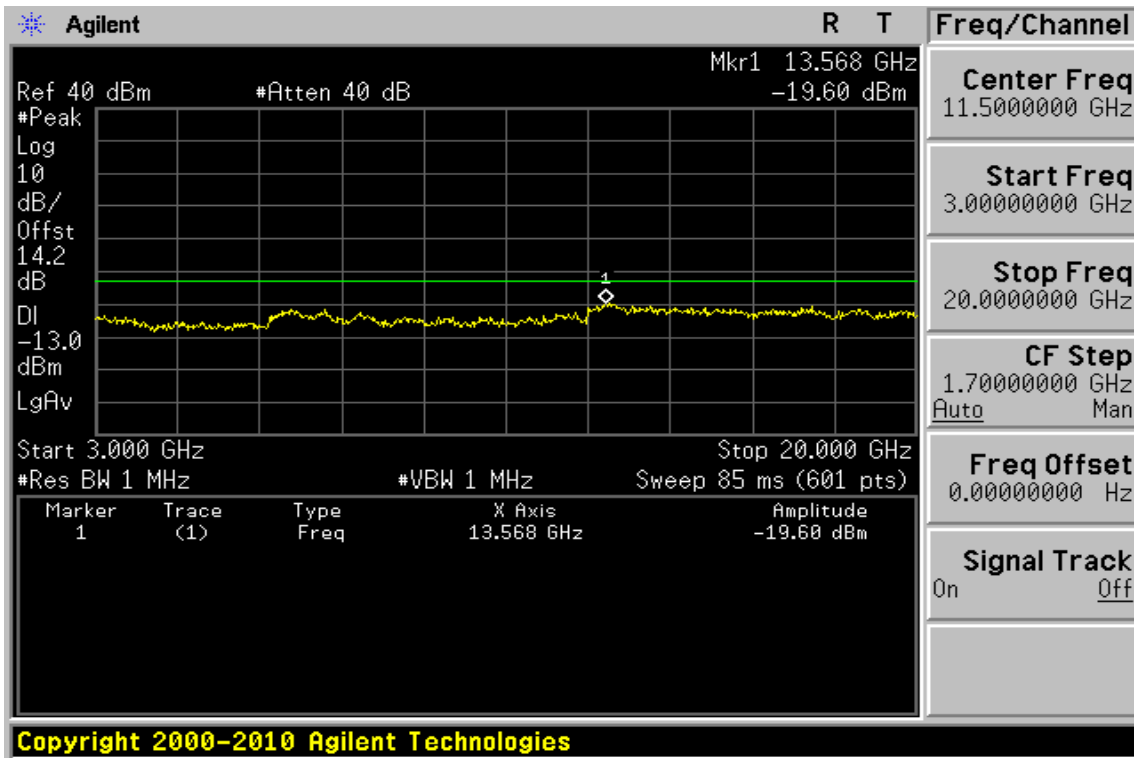
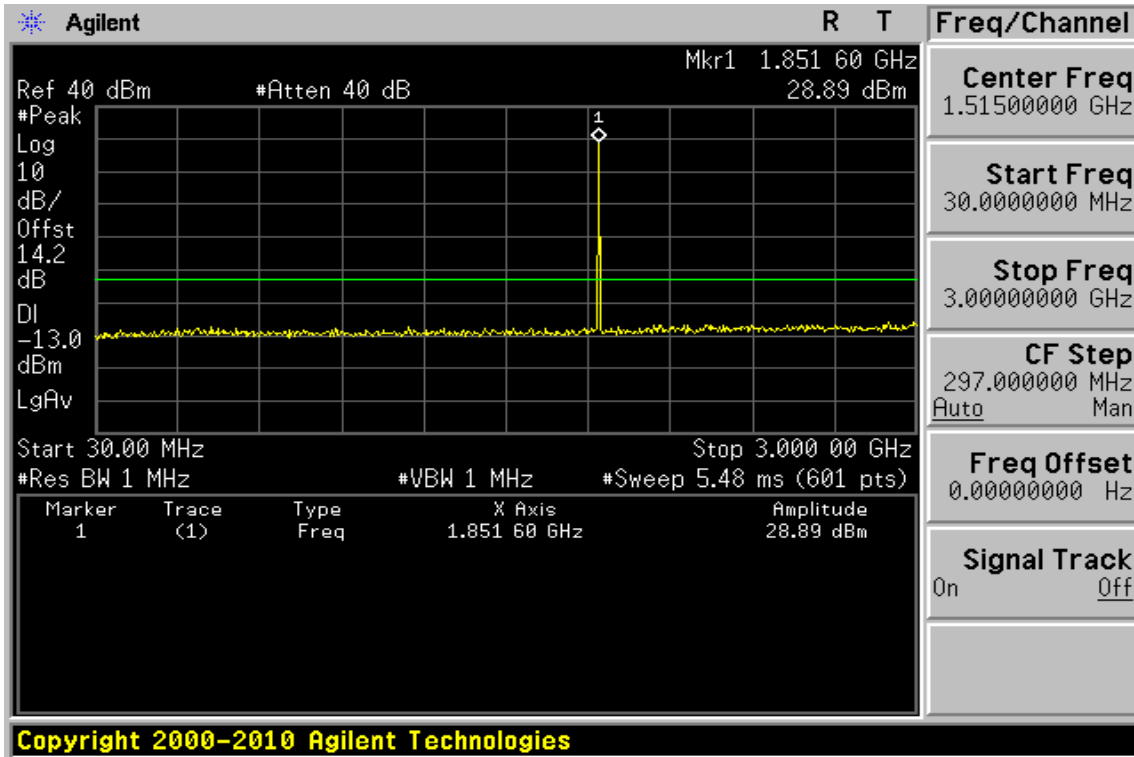
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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

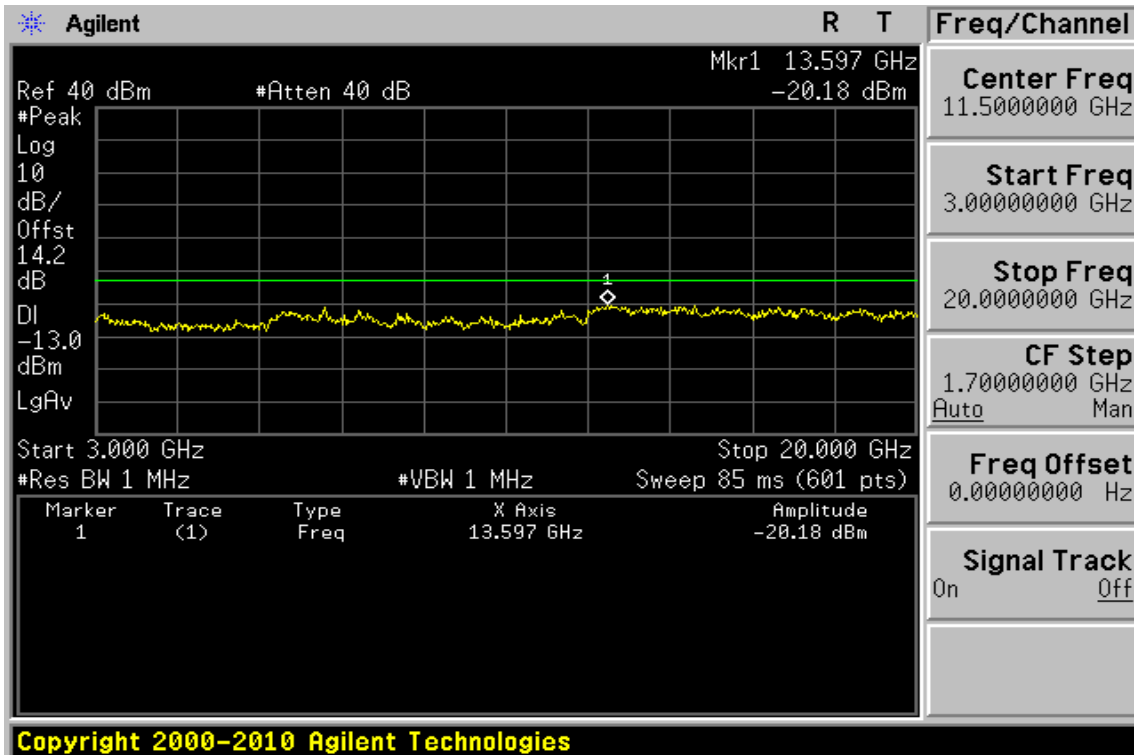
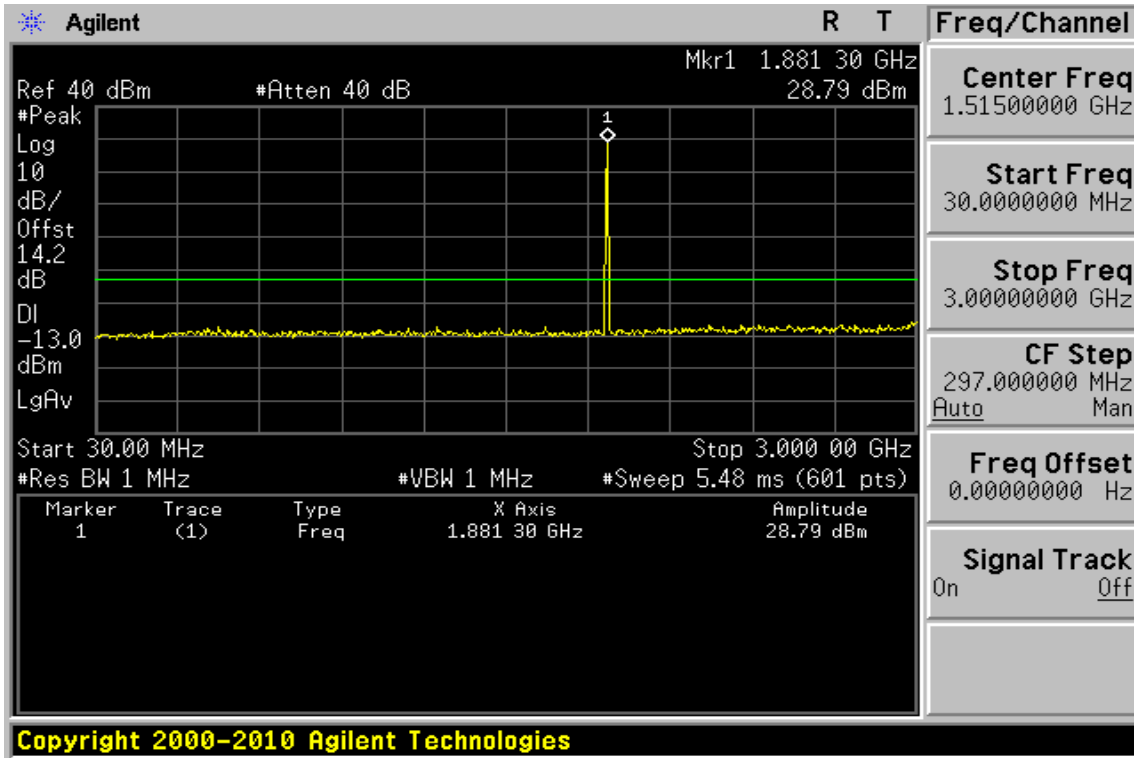


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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid

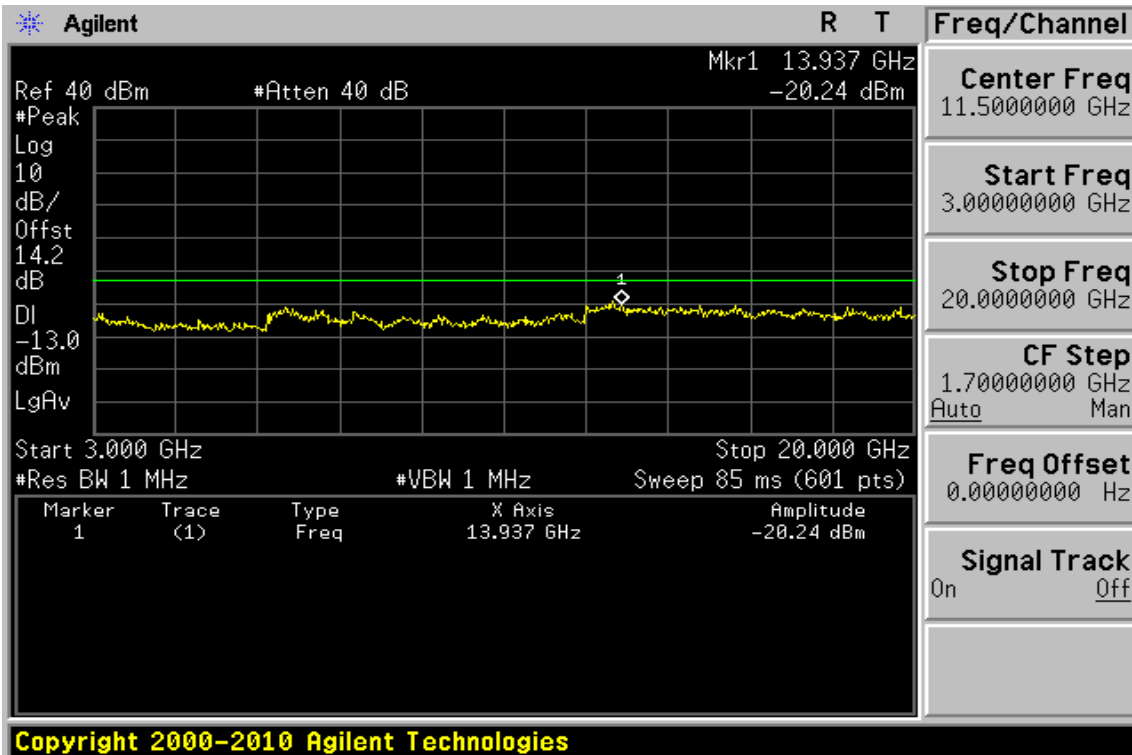
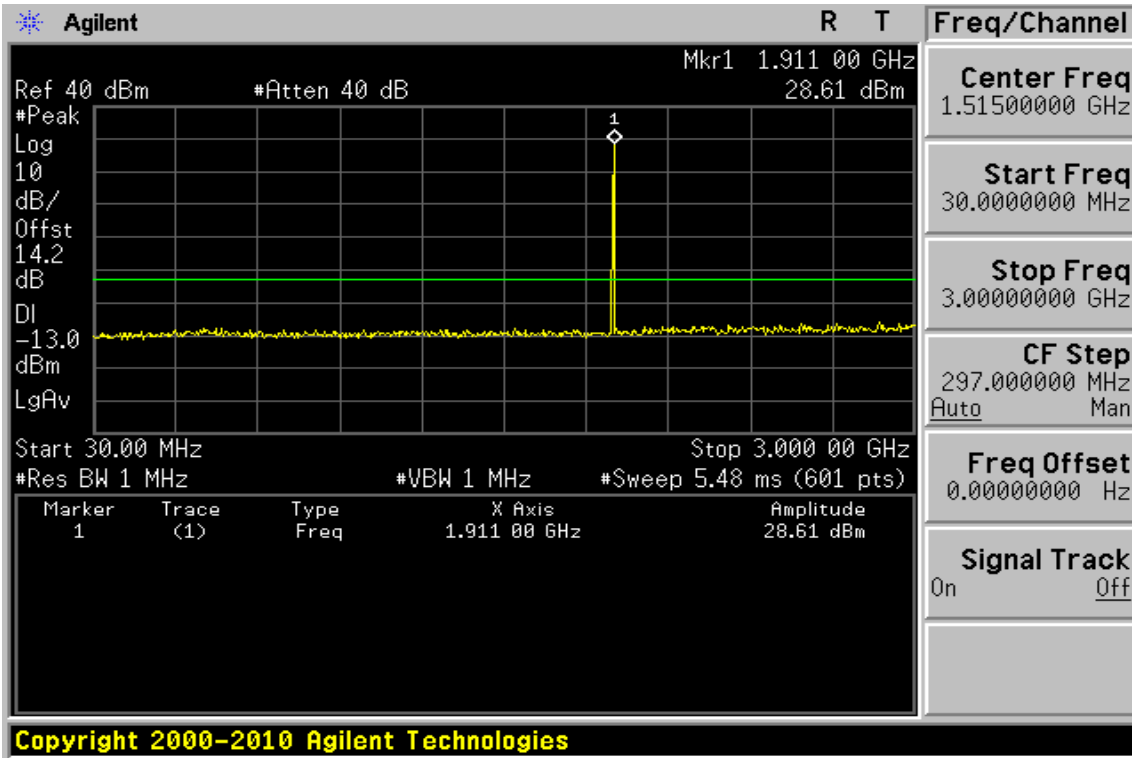


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Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest



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

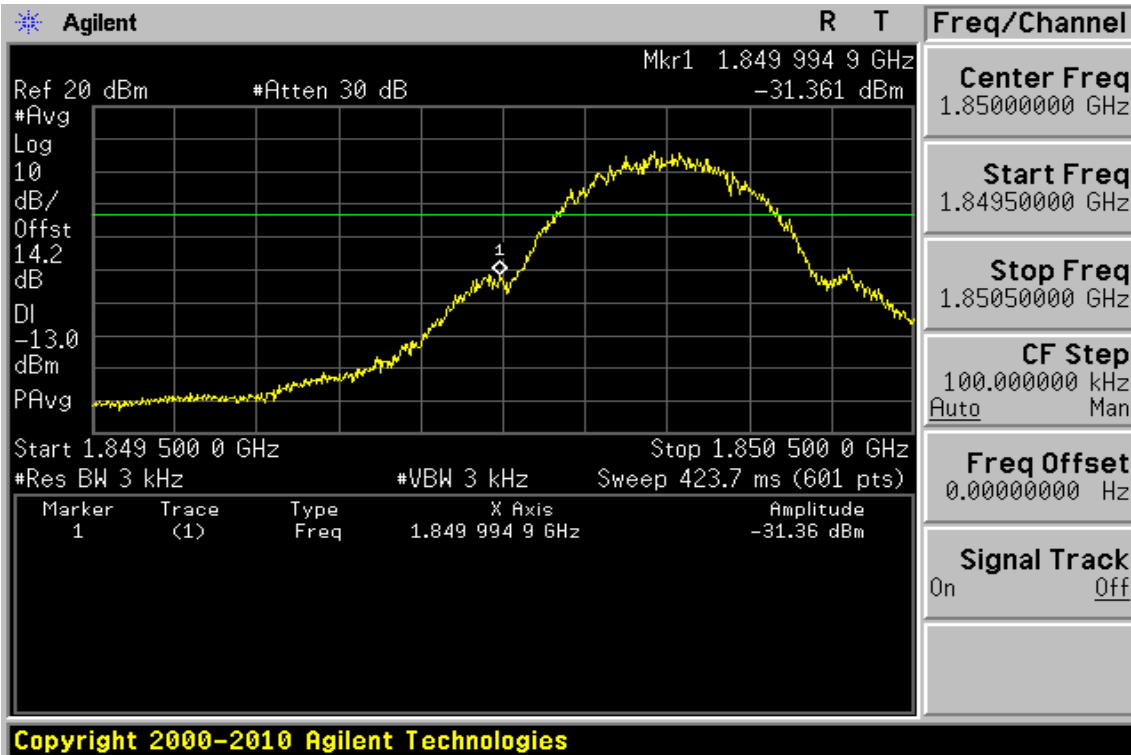
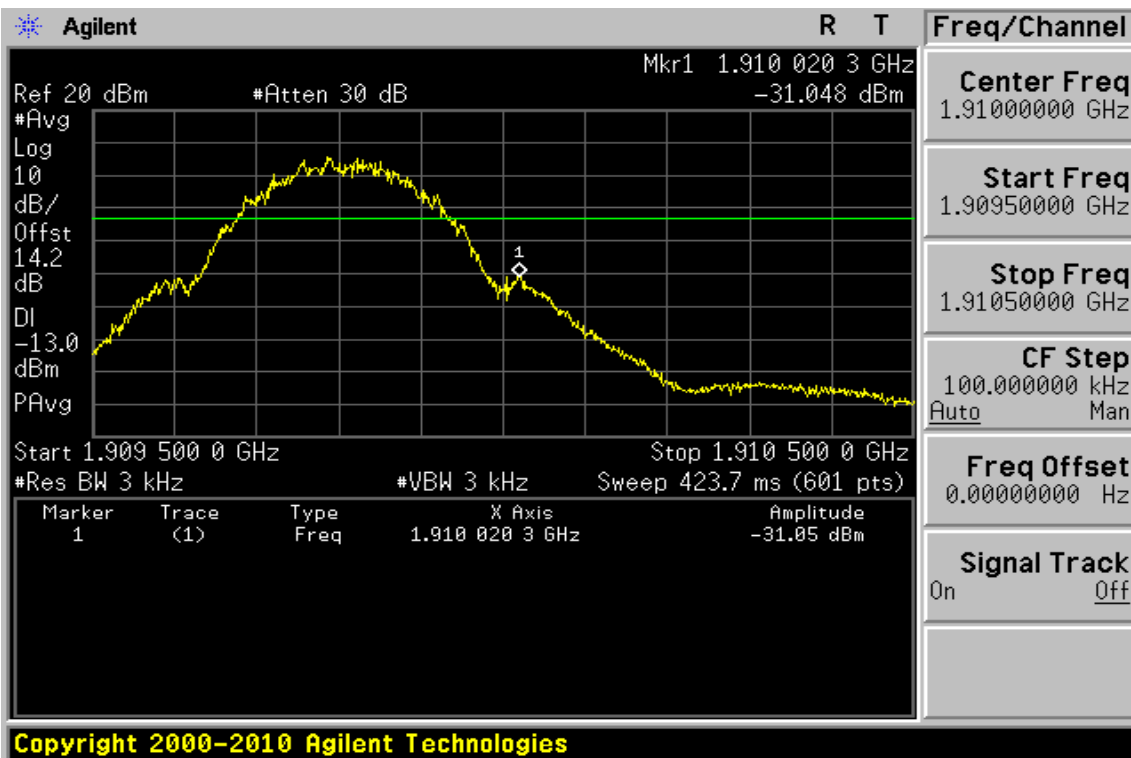


Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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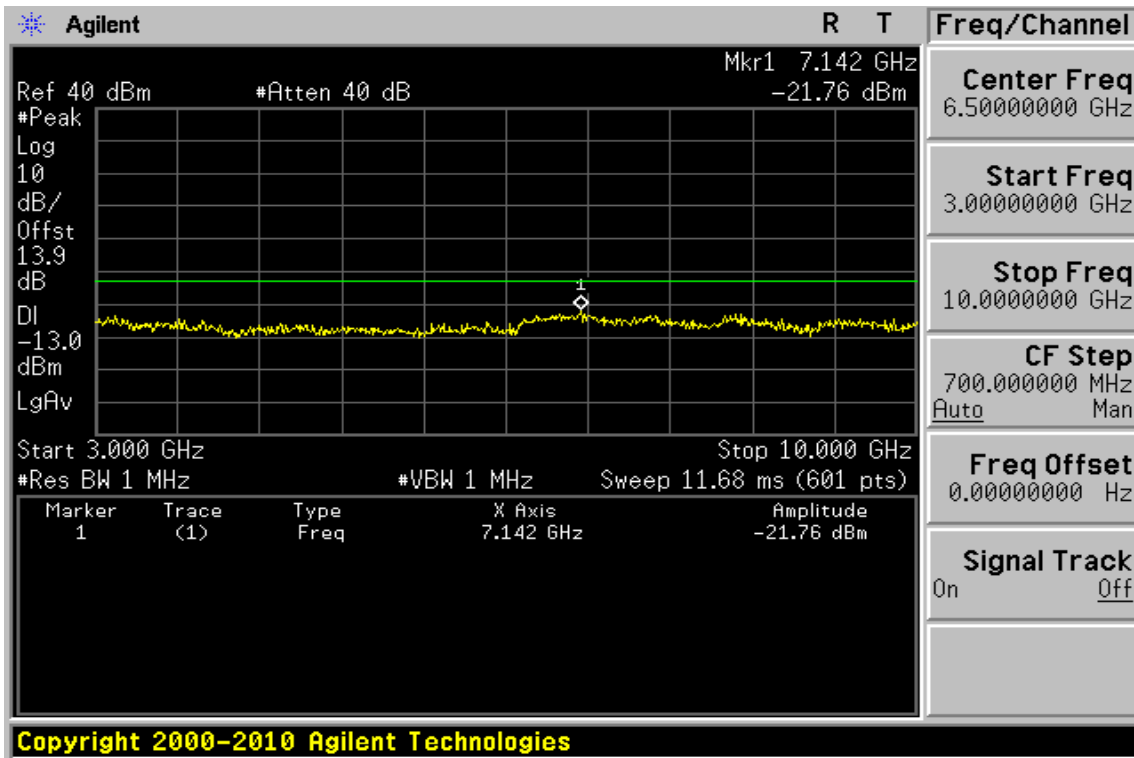
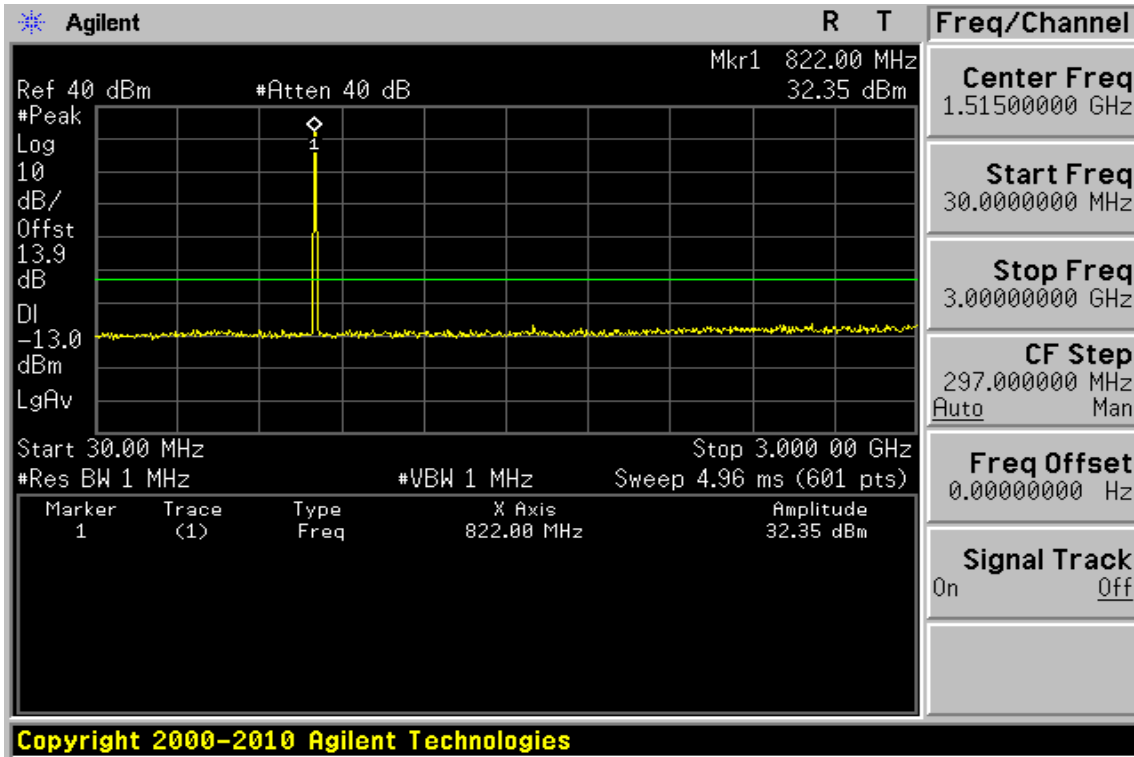
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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest



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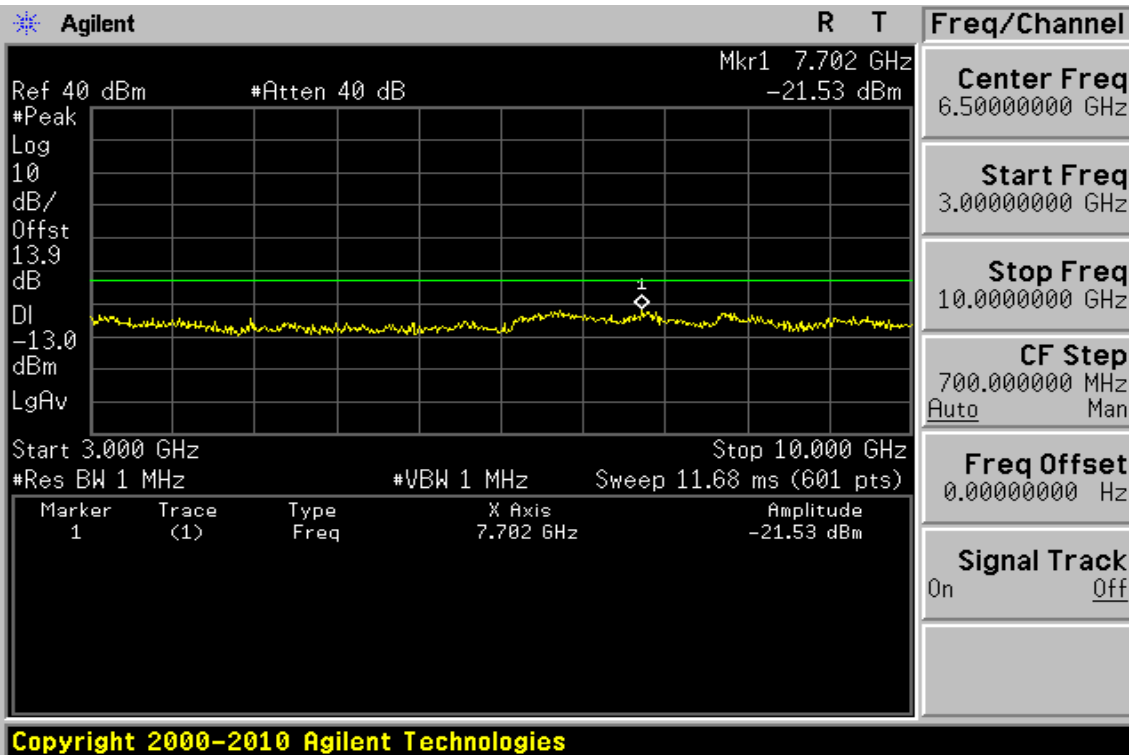
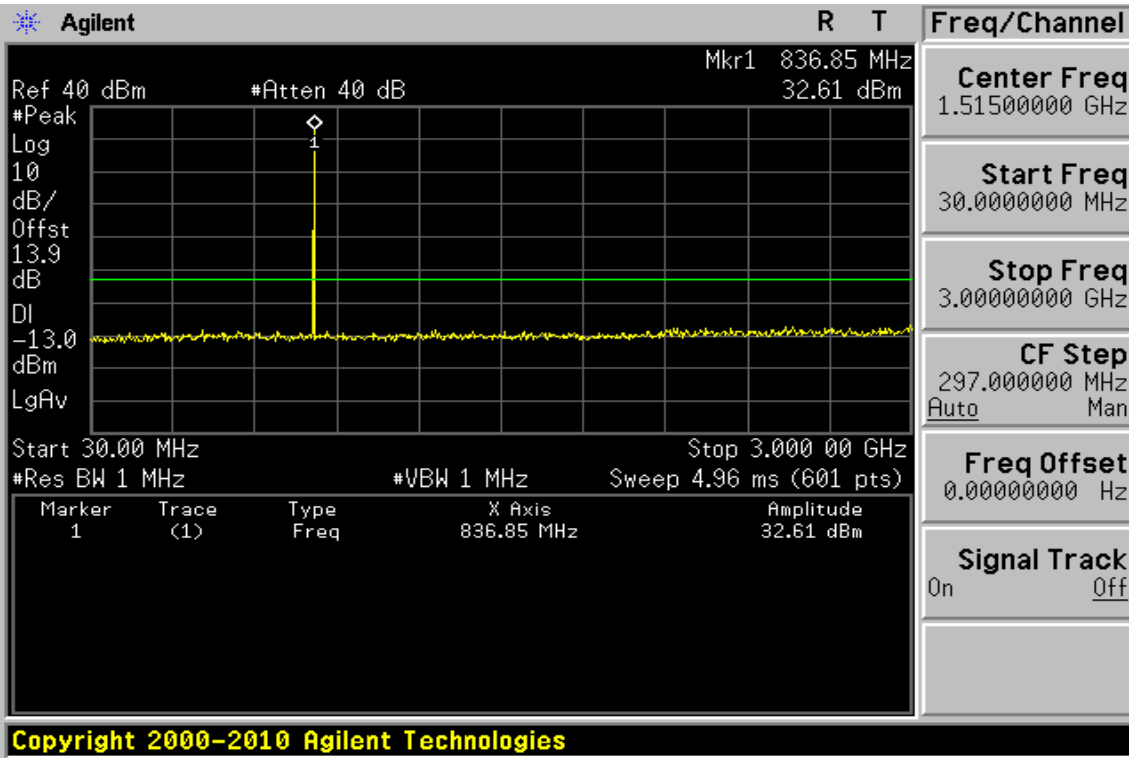
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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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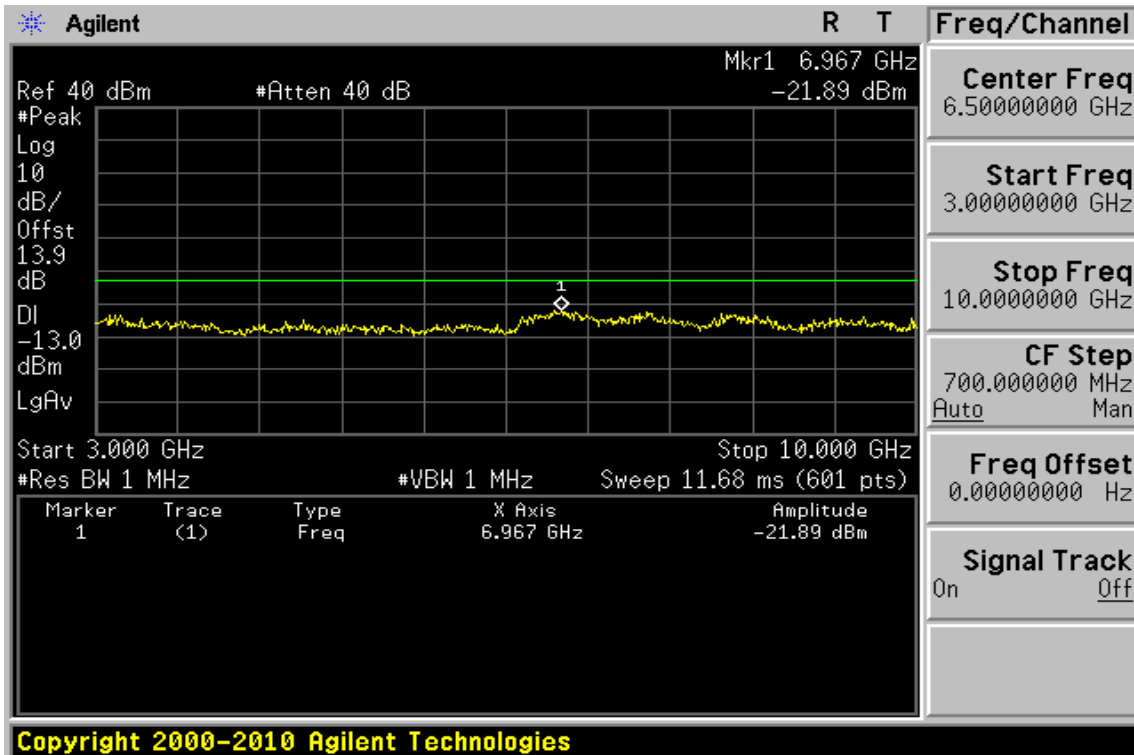
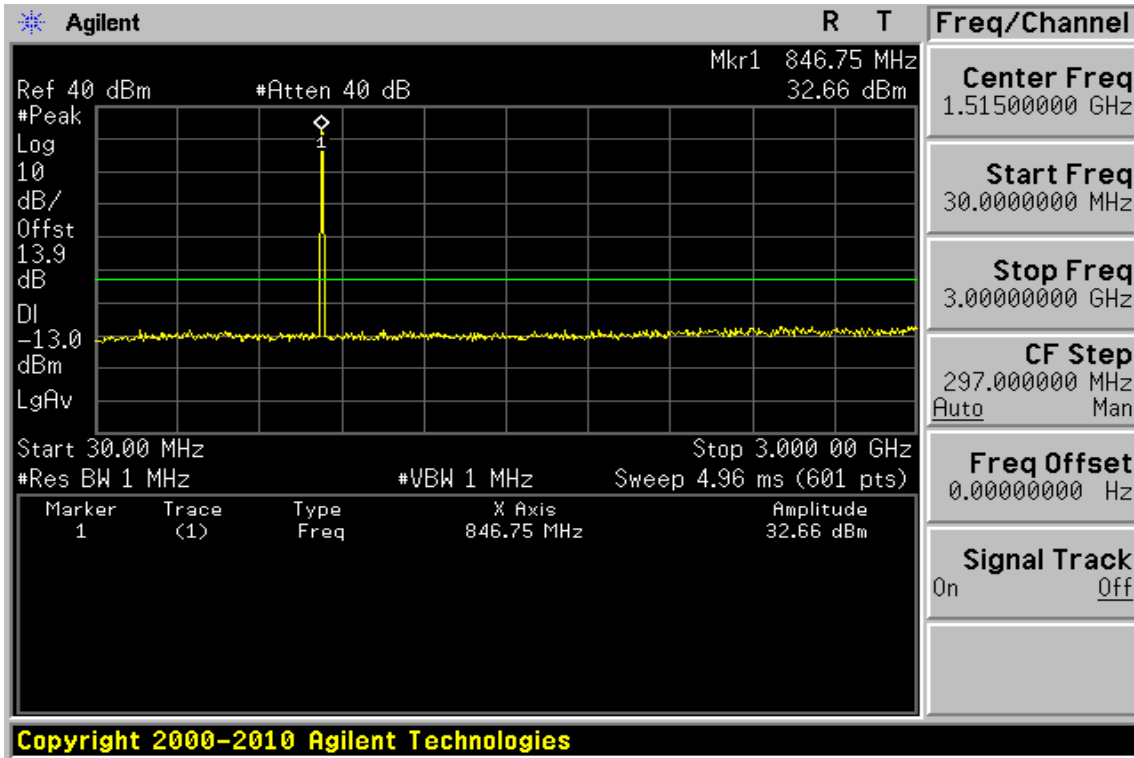
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Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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

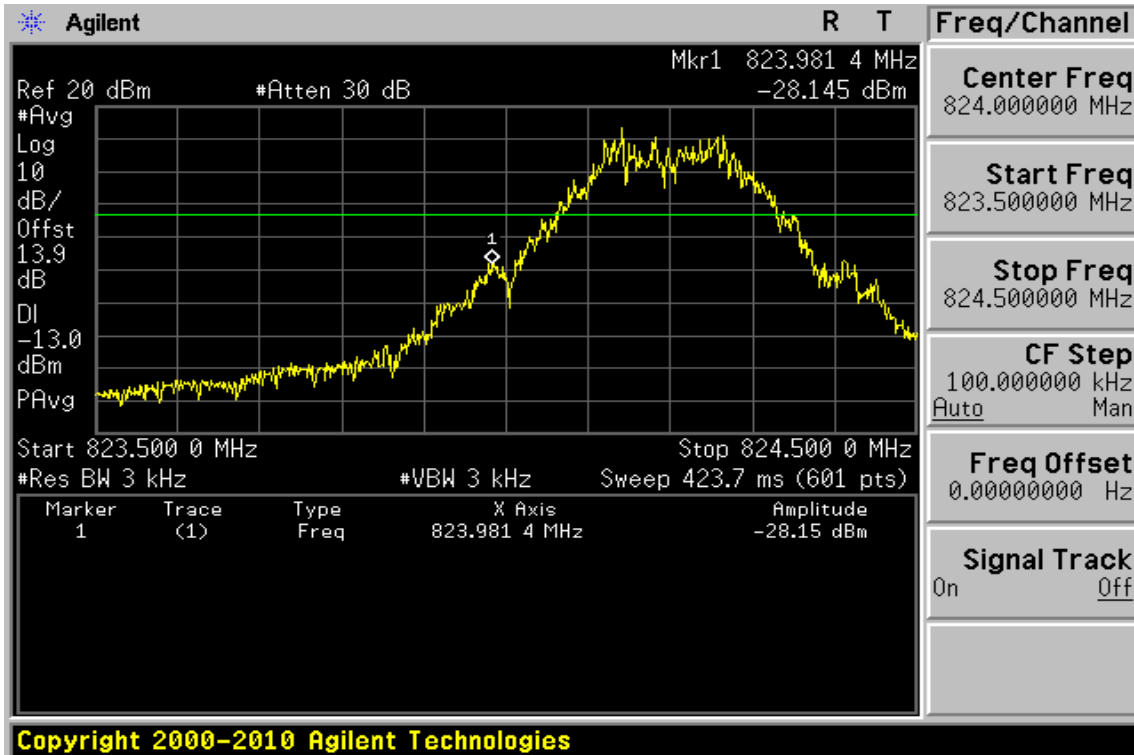
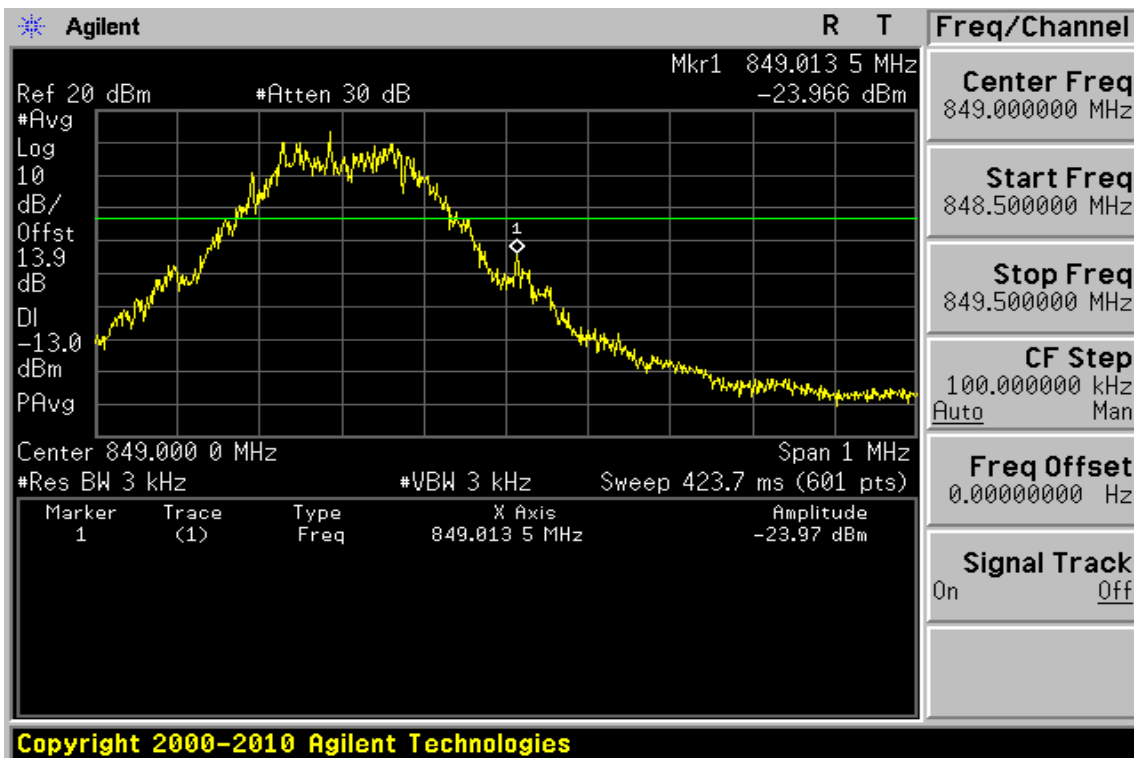


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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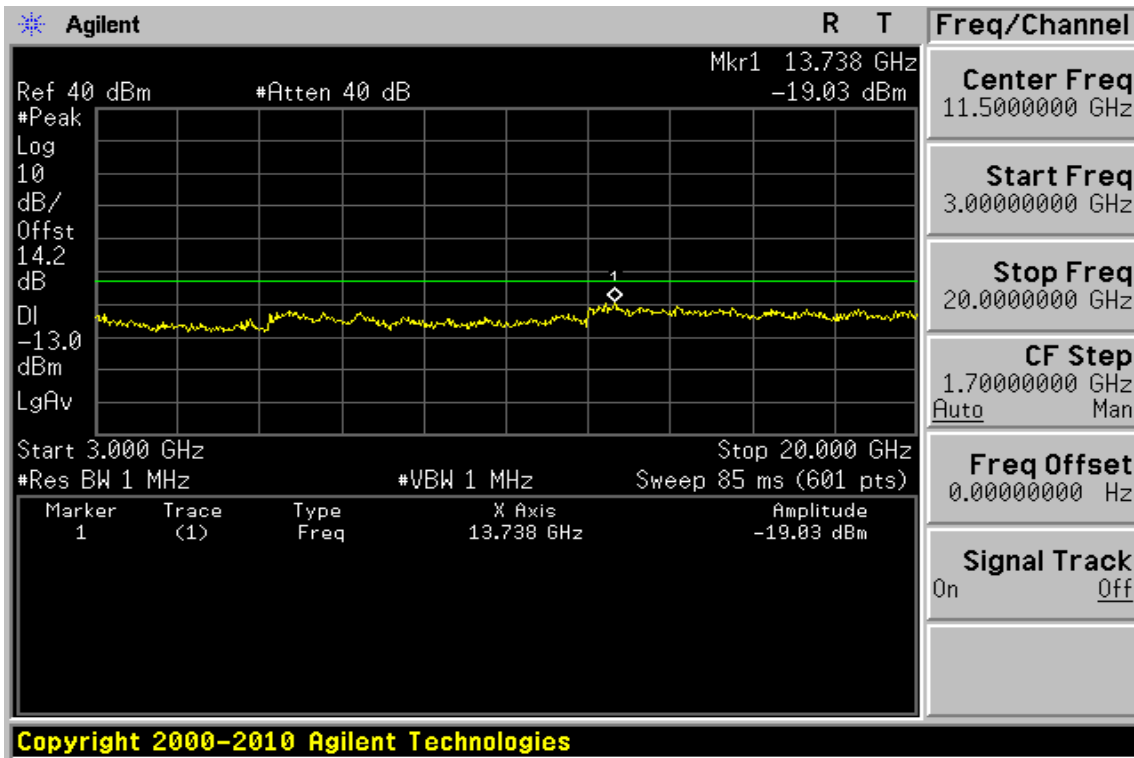
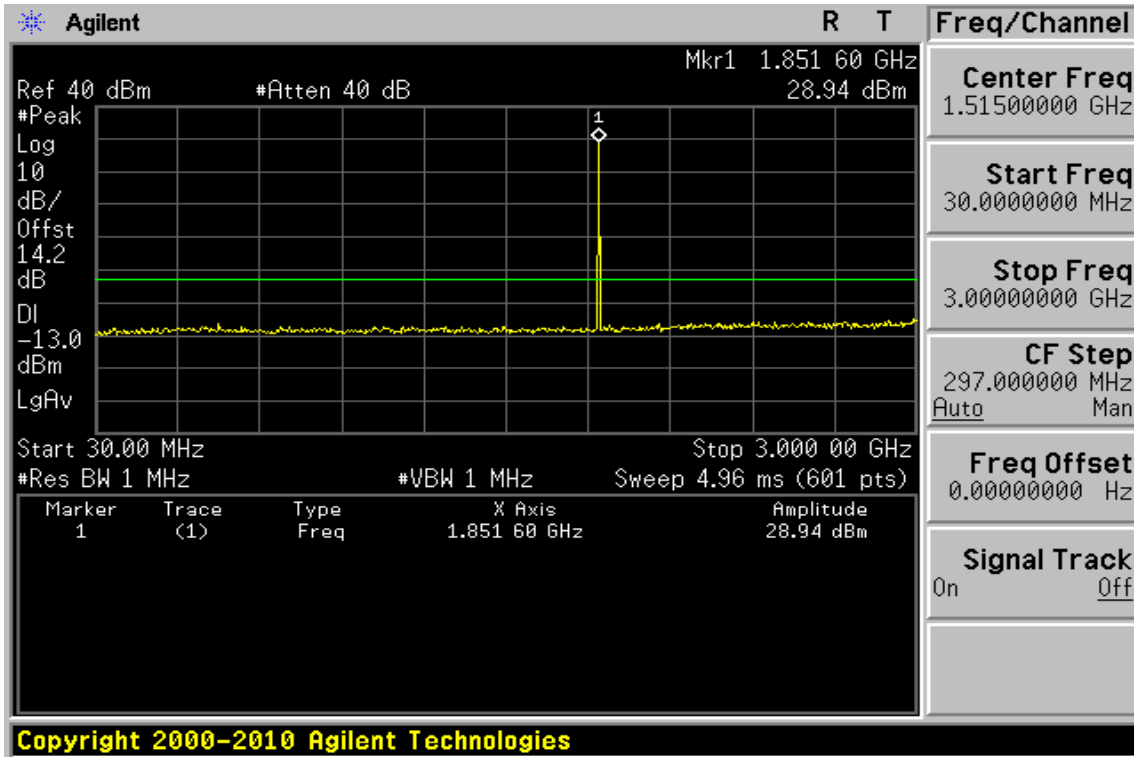
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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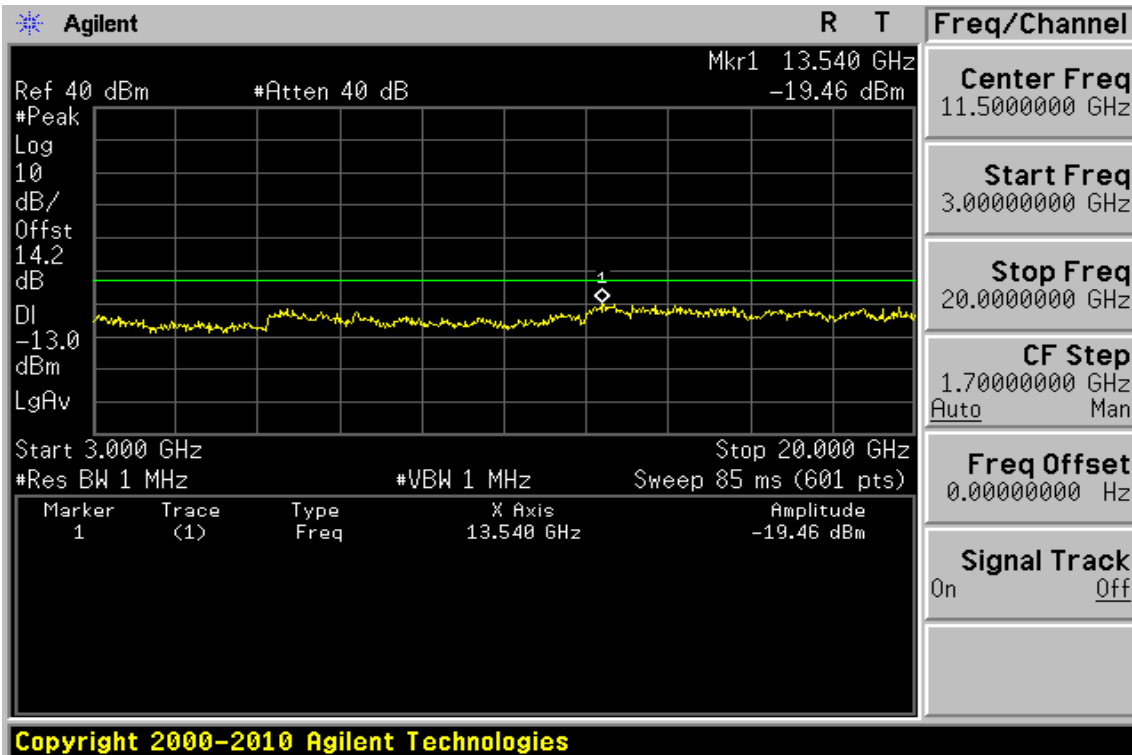
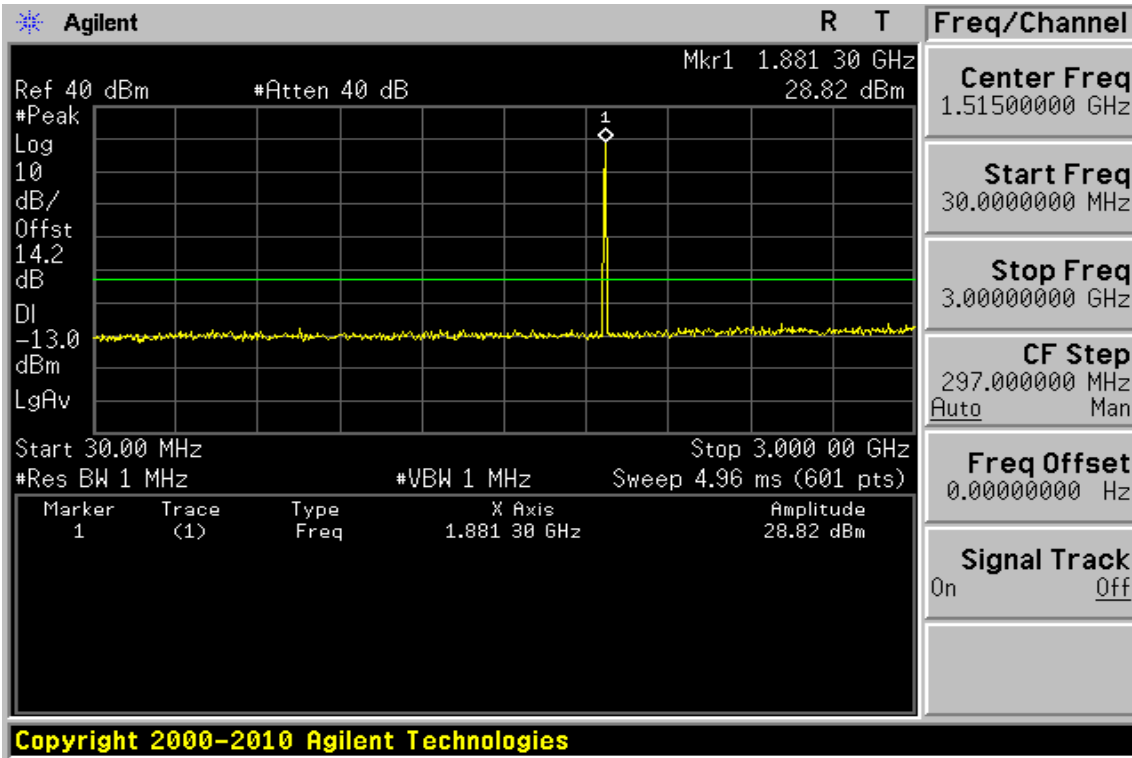
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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid

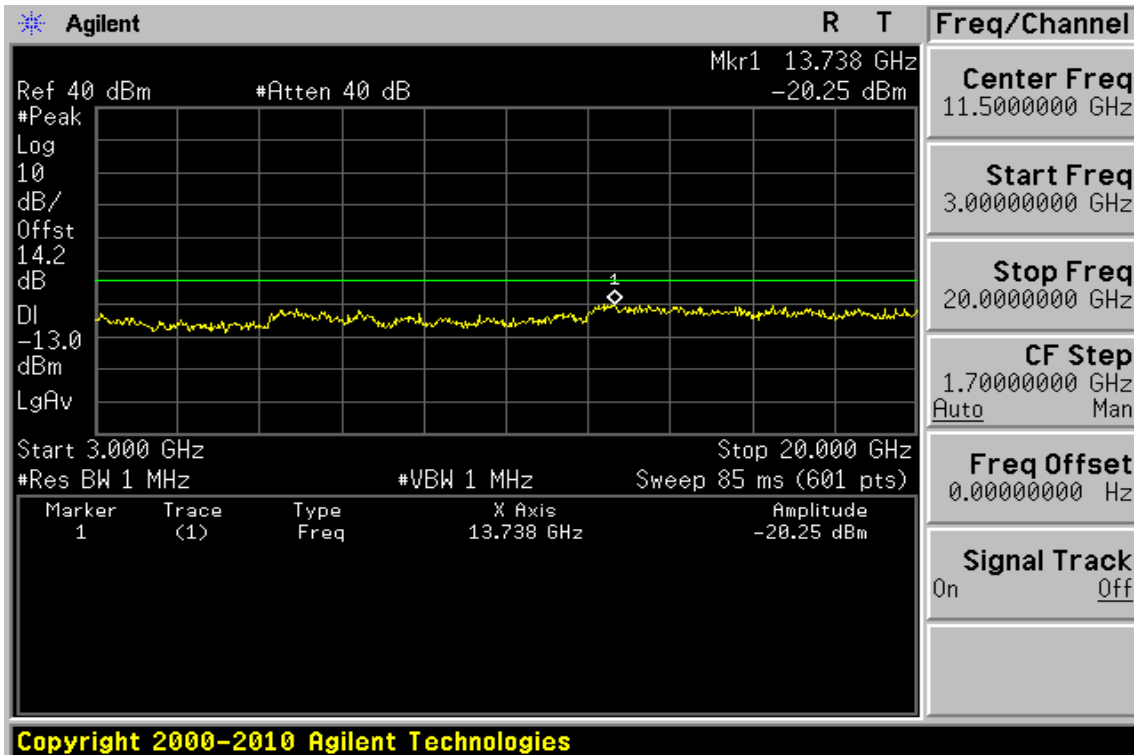
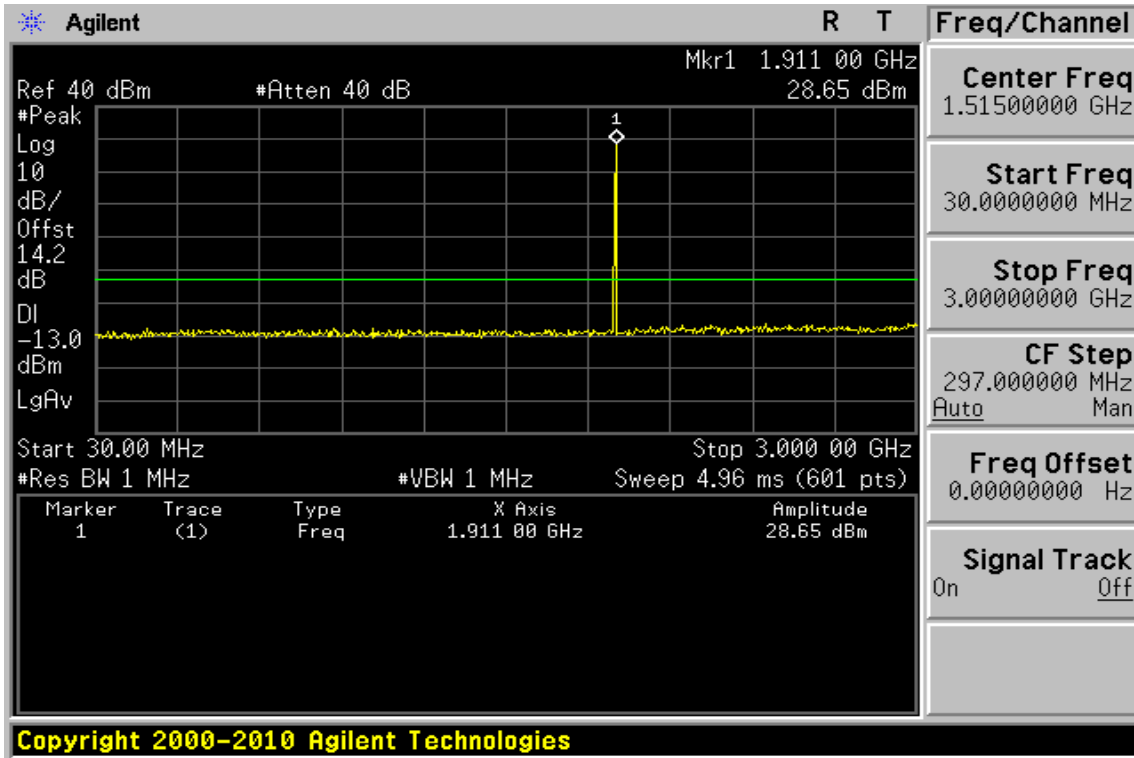


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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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

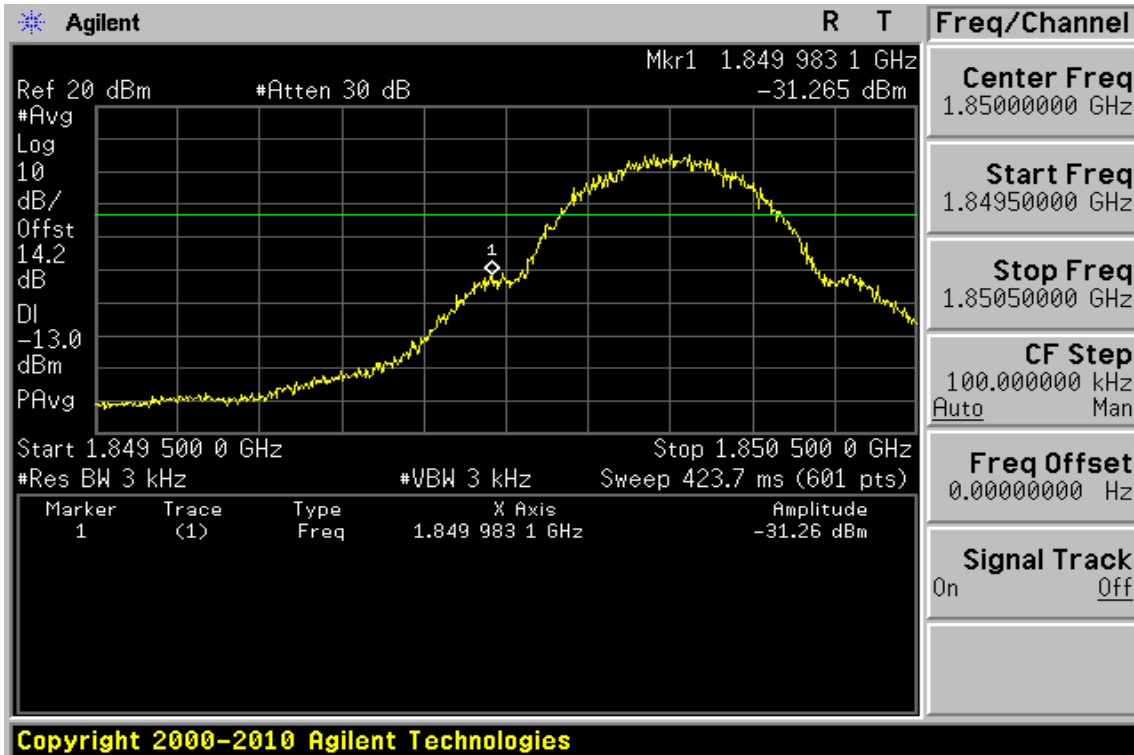
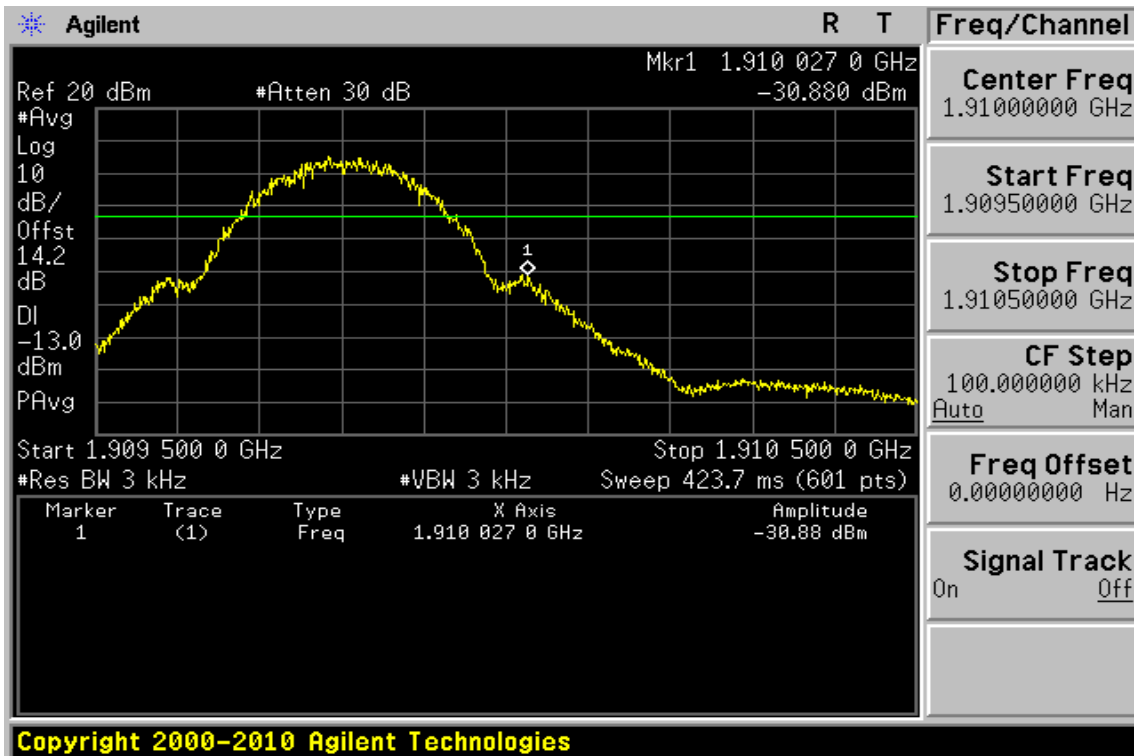


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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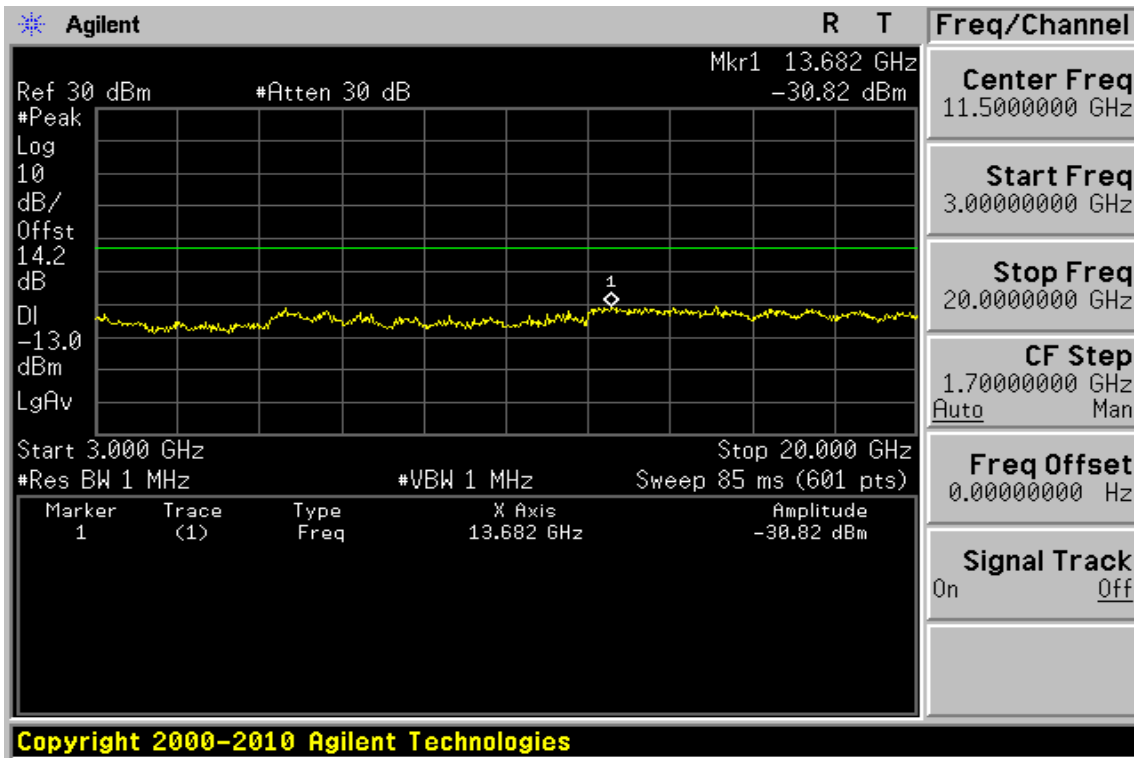
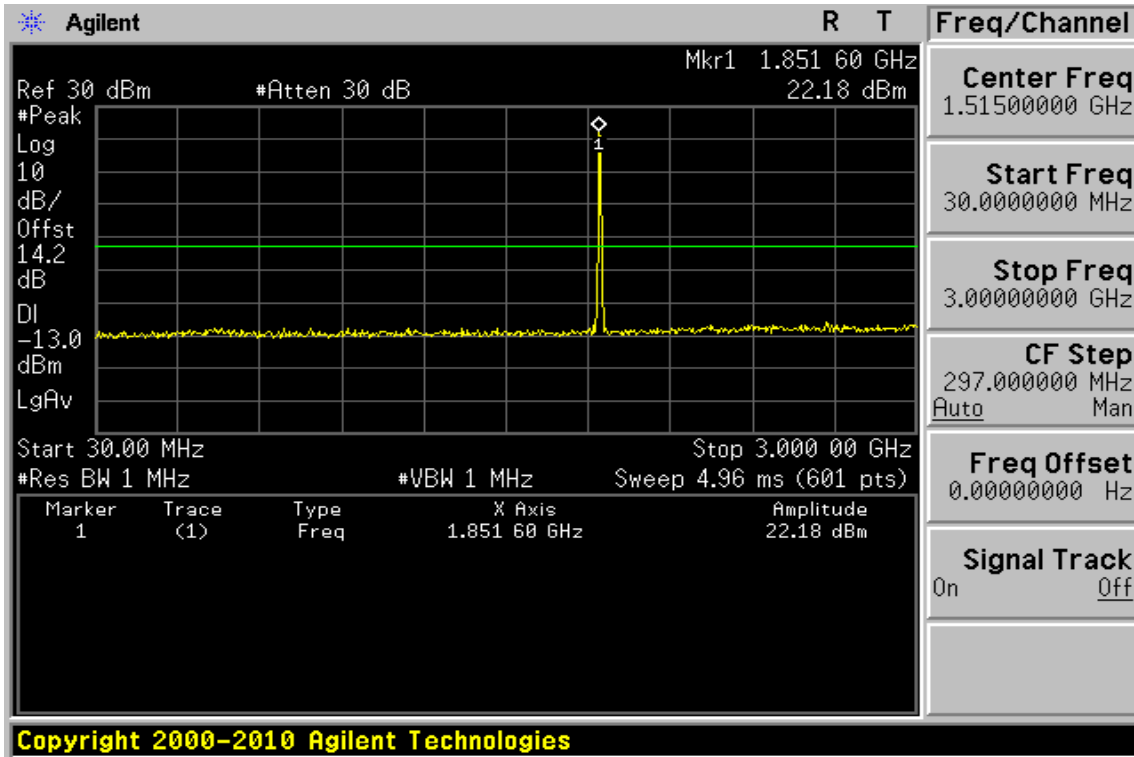
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Figure 9-21: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

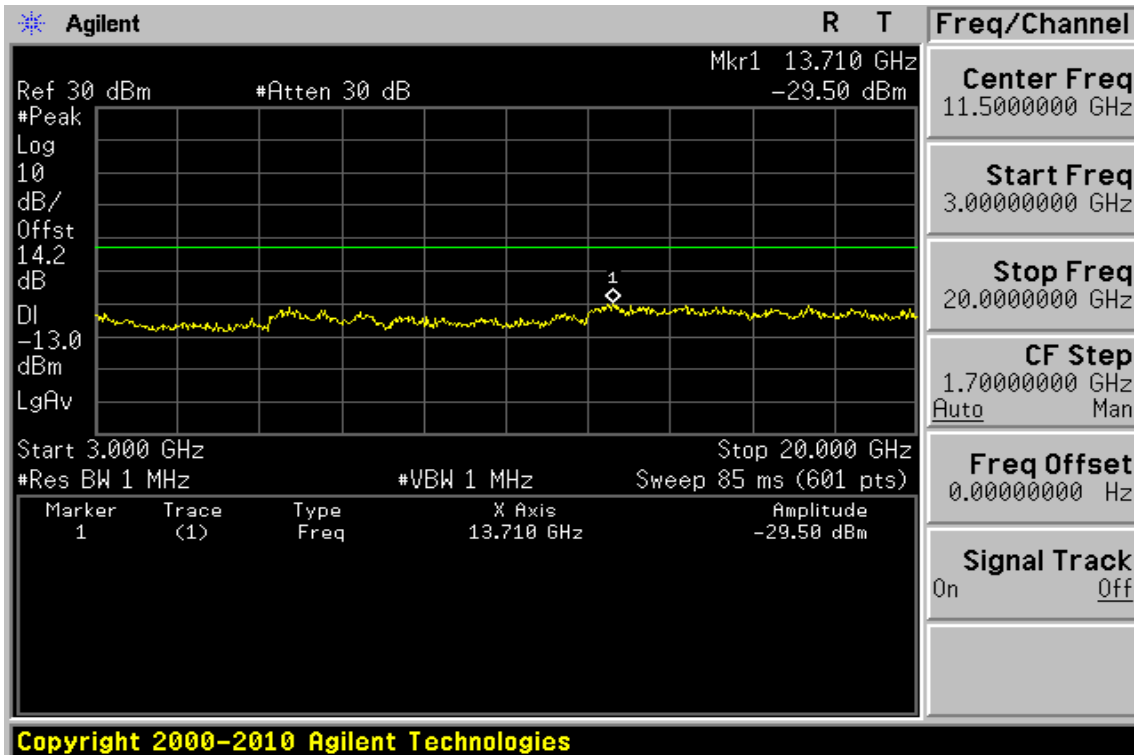
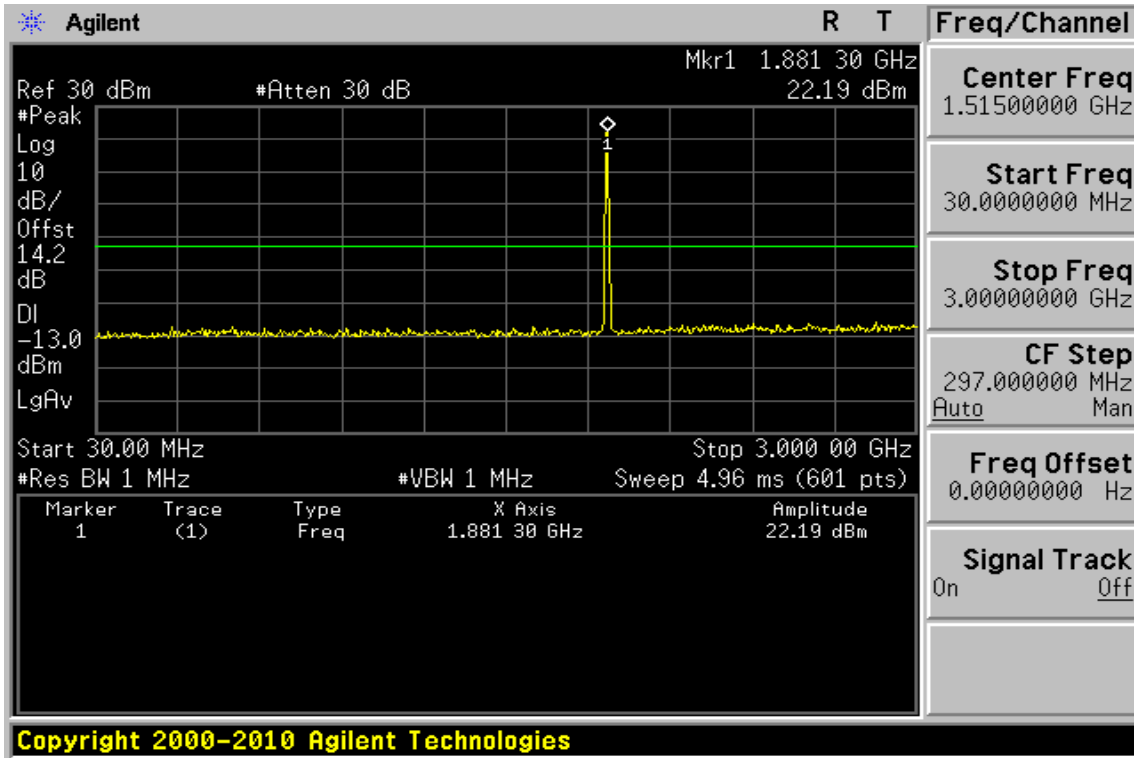


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Figure 9-22: Out of Band emission at antenna terminals – WCDMA II Channel Mid

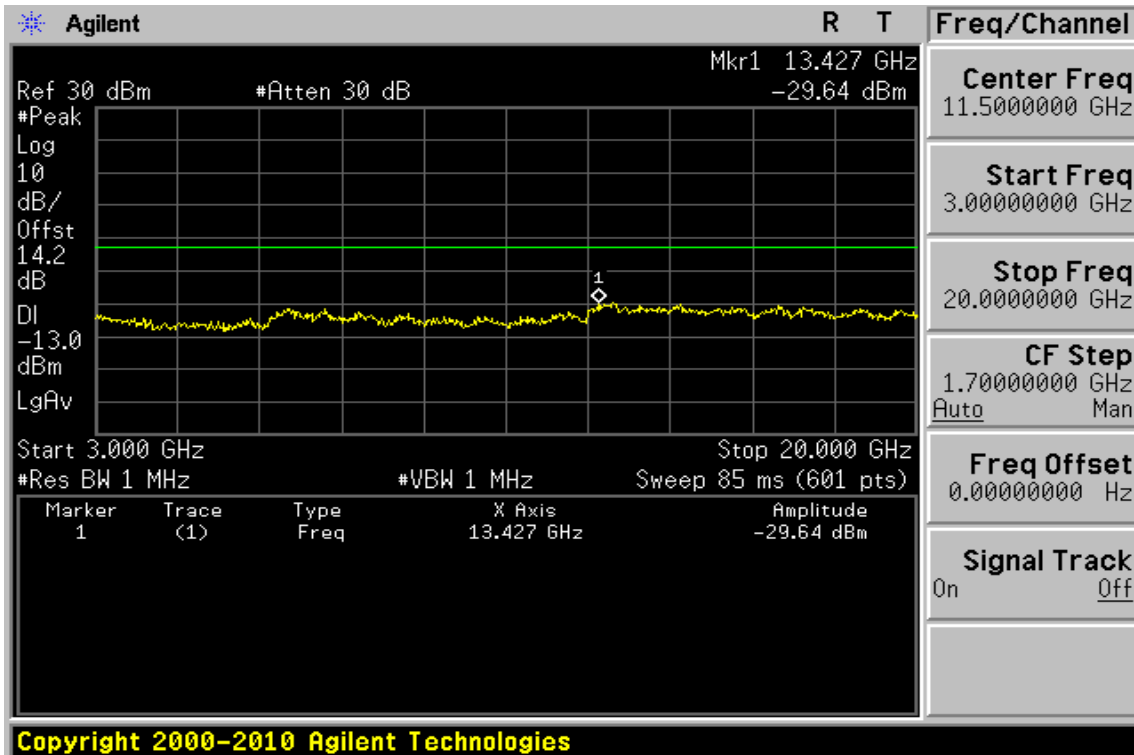
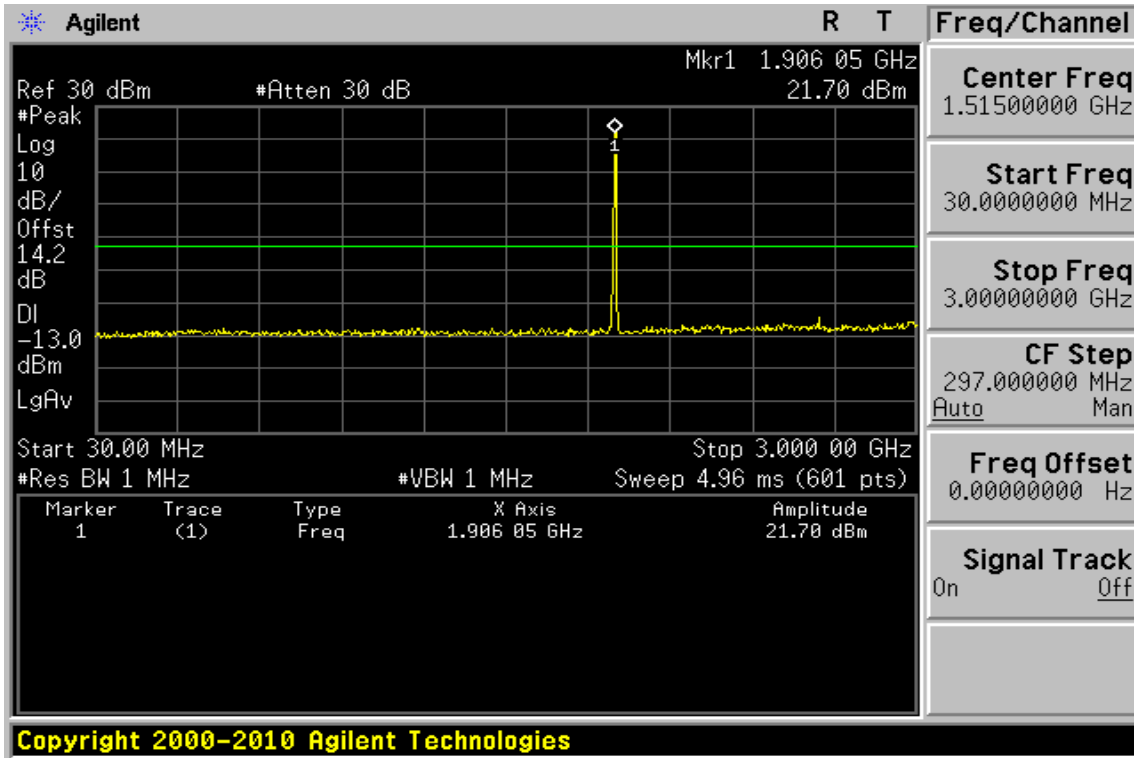


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Figure 9-23: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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Figure 9-24: Band edge emission at antenna terminals – WCDMA II Channel Lowest

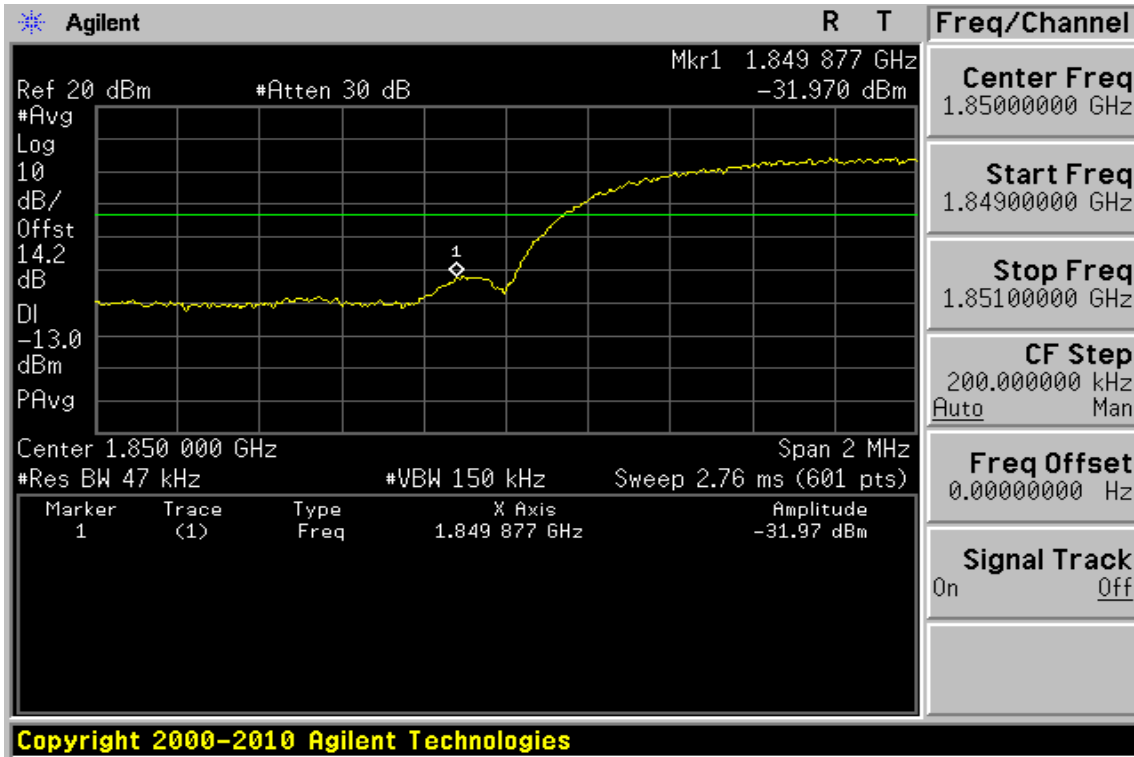
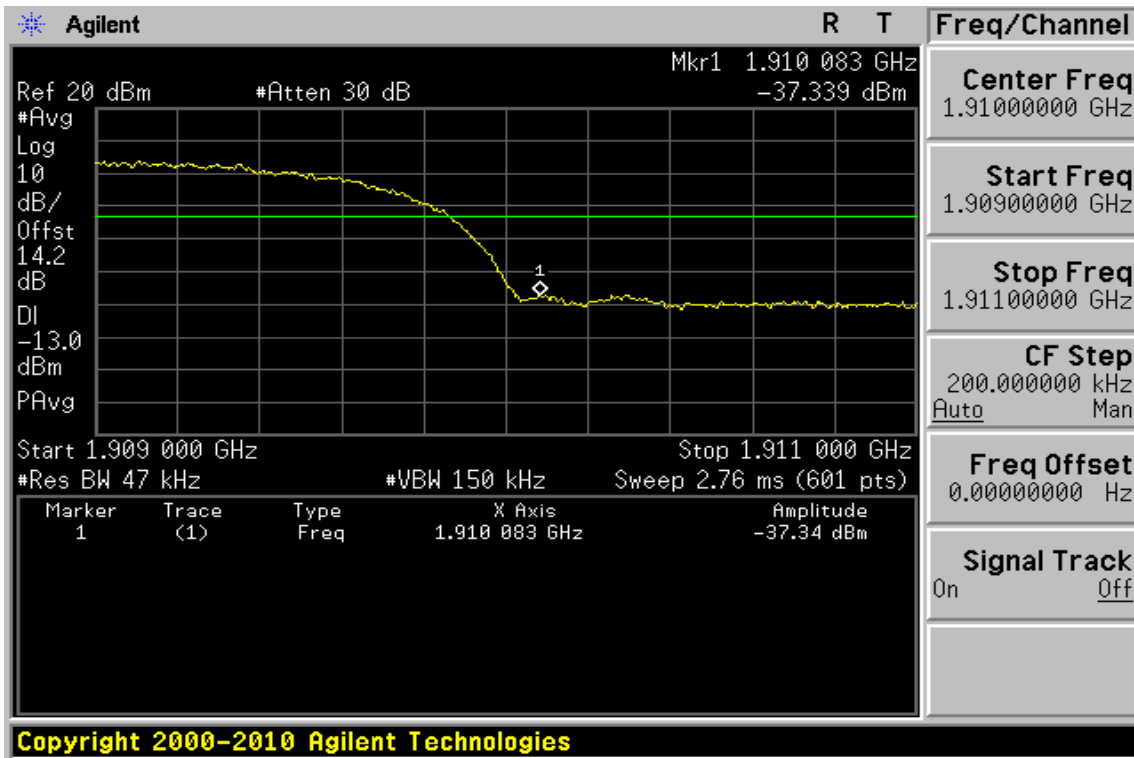


Figure 9-25: Band edge emission at antenna terminals – WCDMA II Channel Highest



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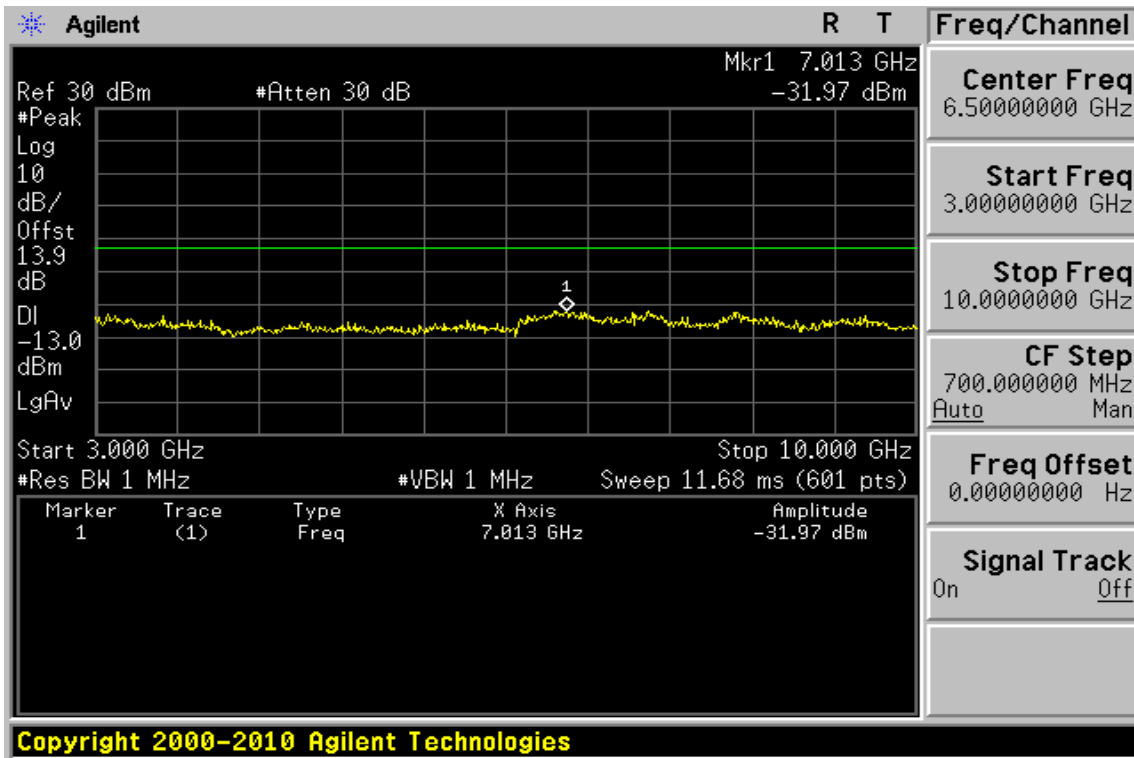
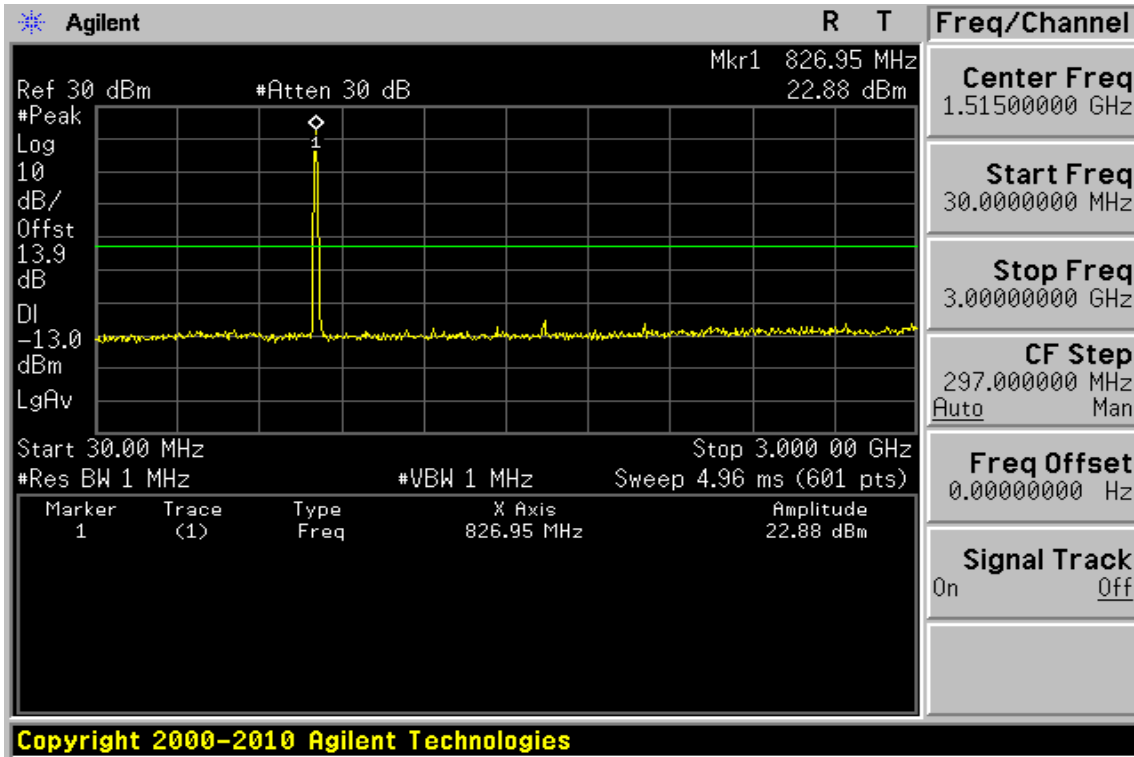
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Figure 9-26: Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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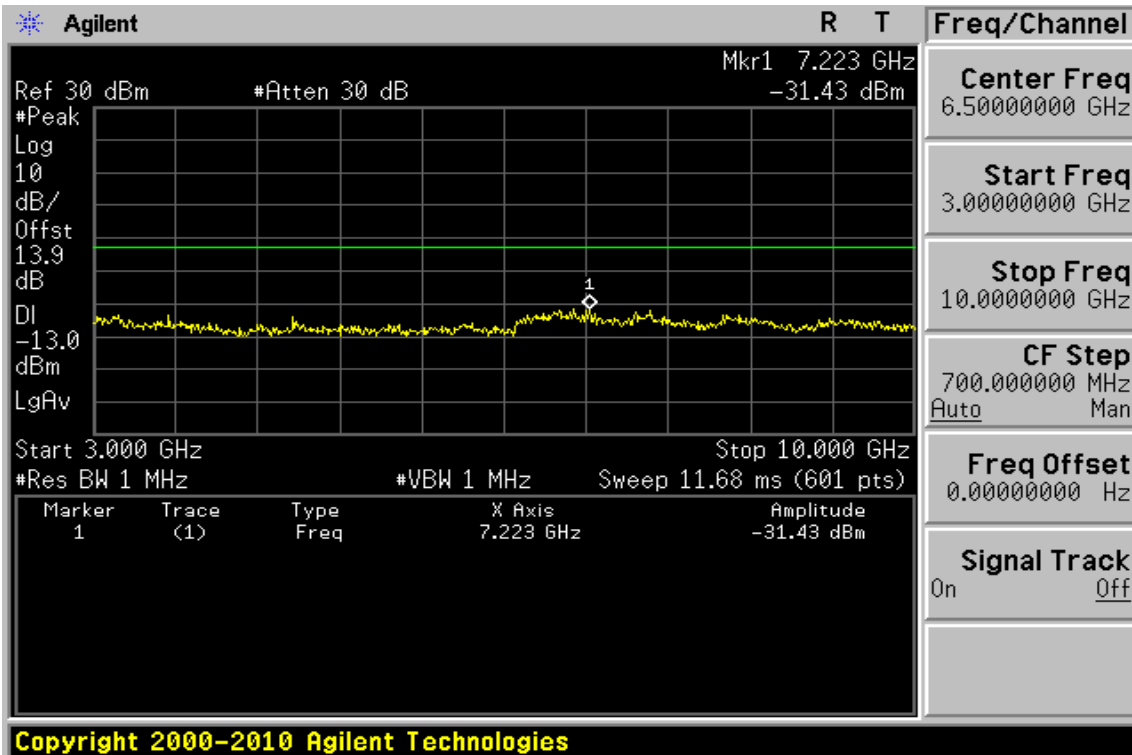
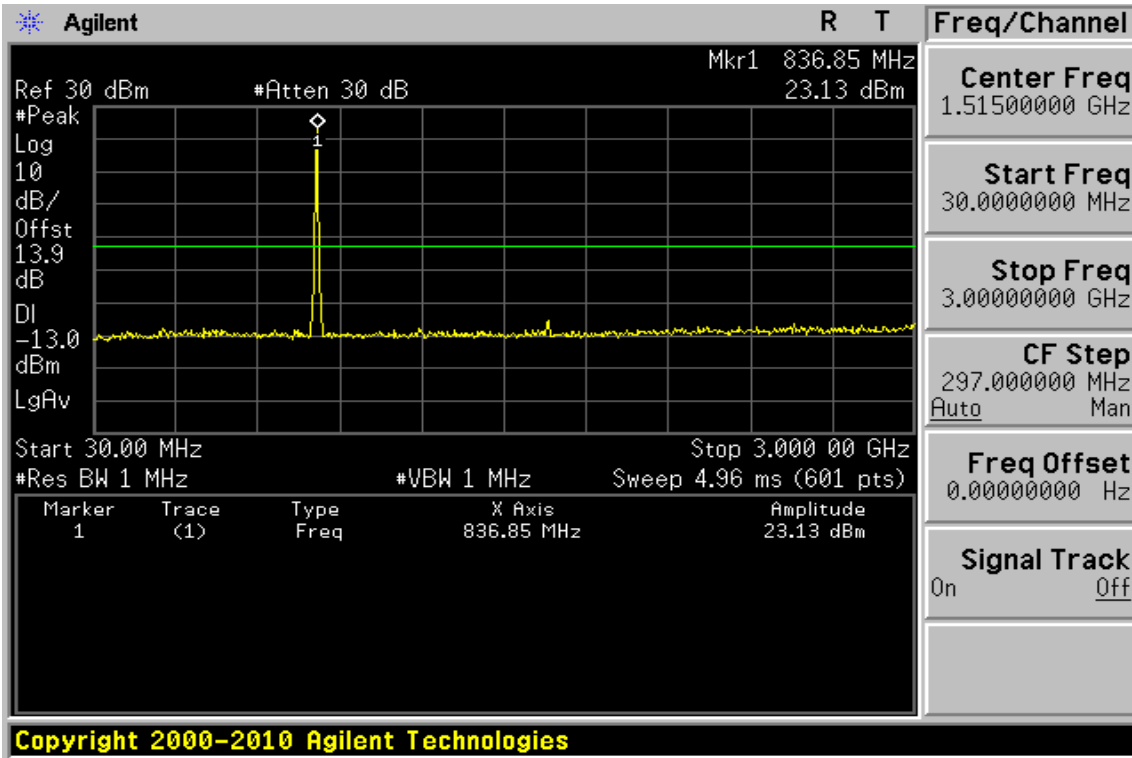
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Figure 9-27: Out of Band emission at antenna terminals – WCDMA V Channel Mid



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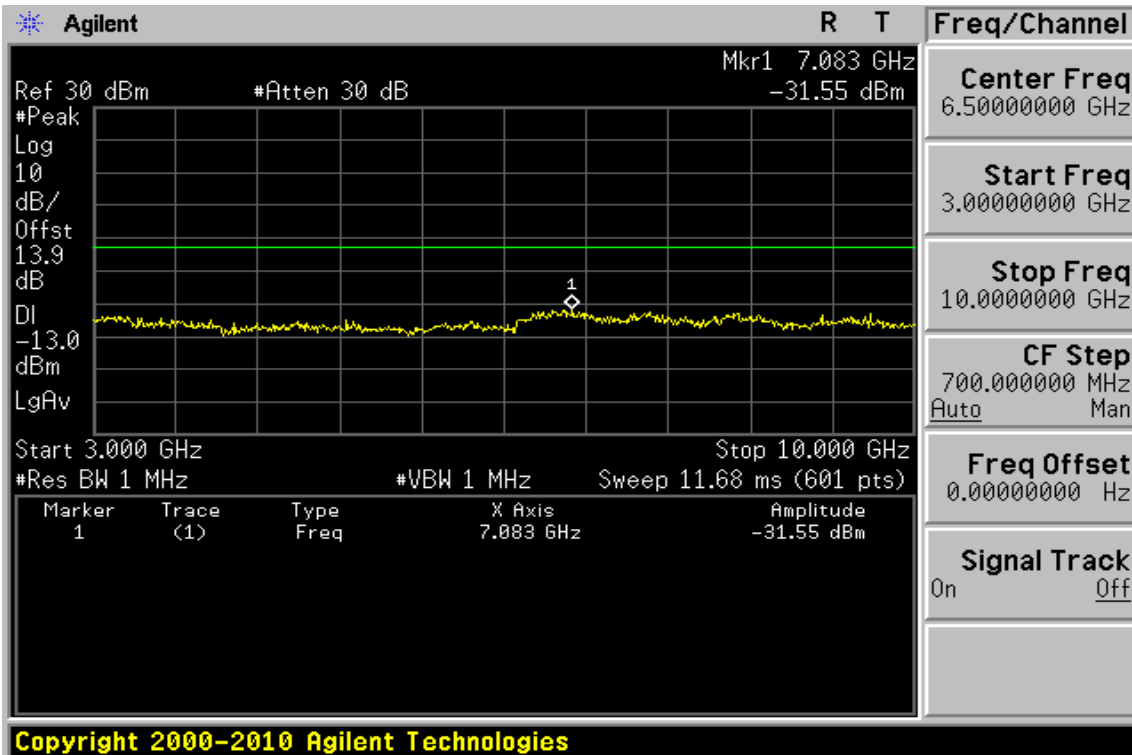
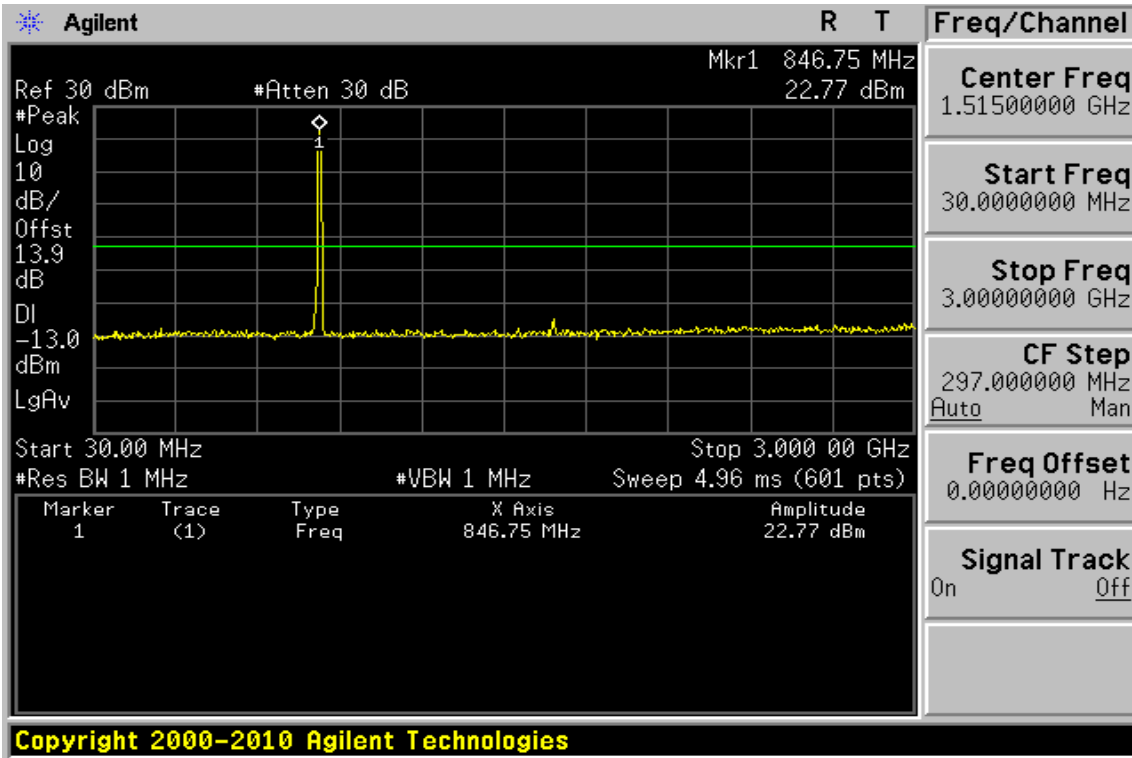
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Figure 9-28: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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Figure 9-29: Band edge emission at antenna terminals – WCDMA V Channel Lowest

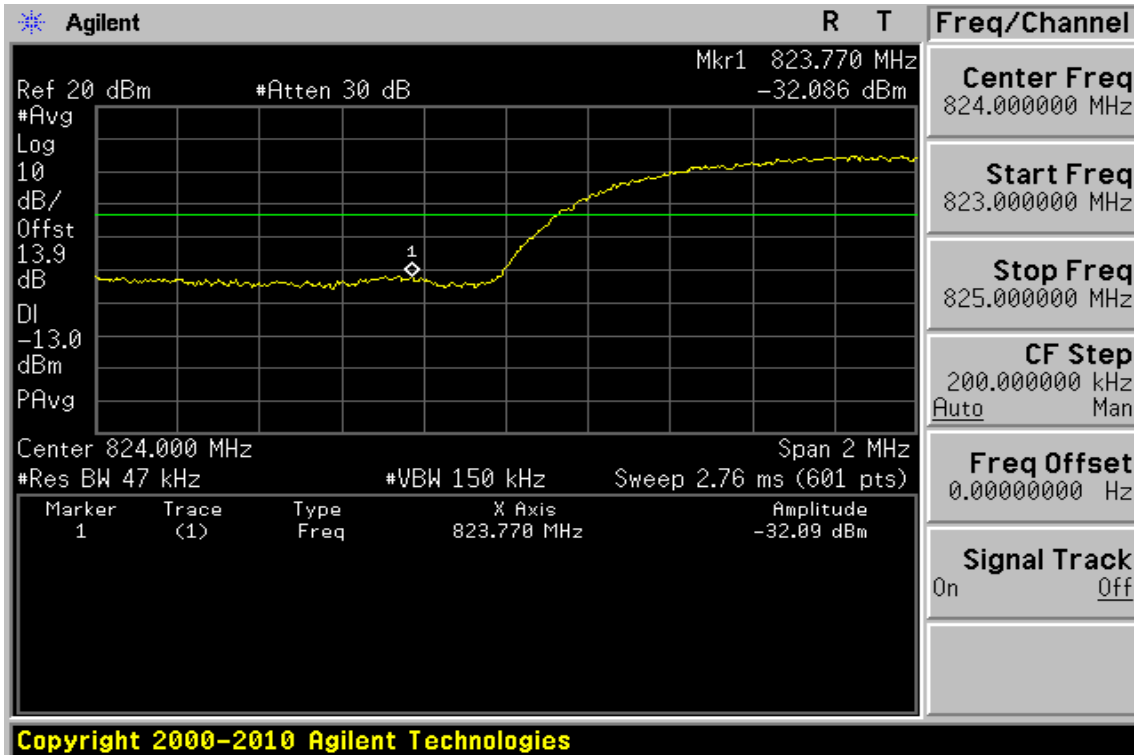
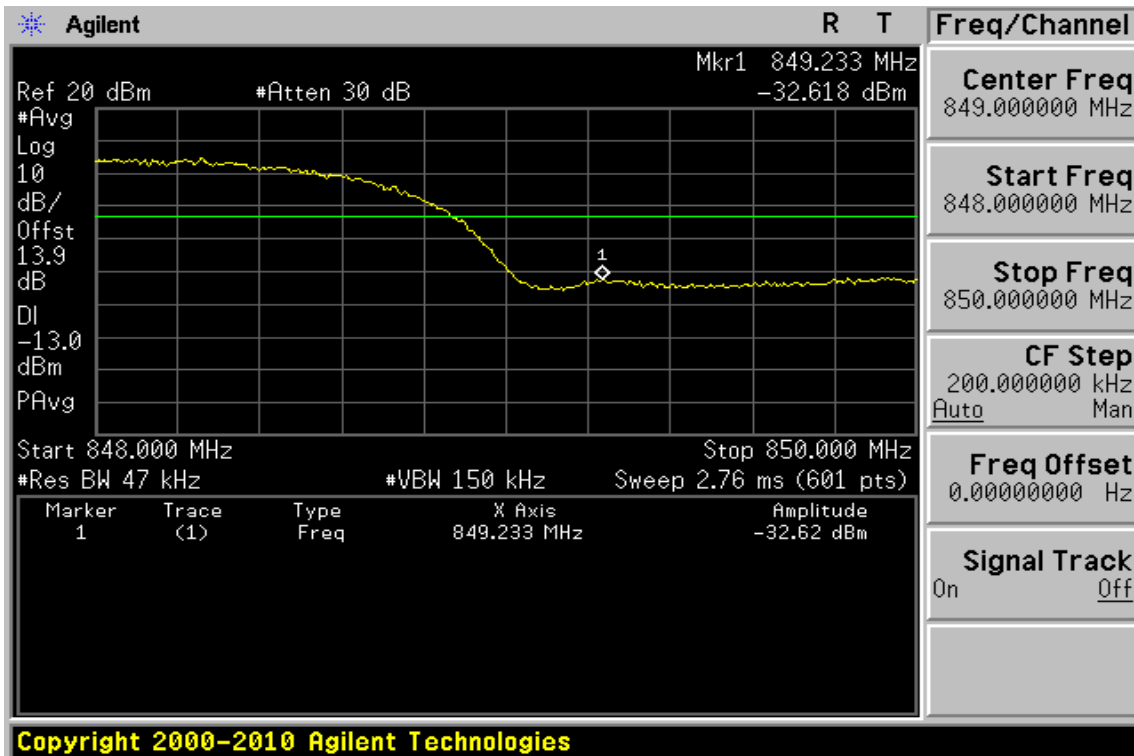


Figure 9-30: Band edge emission at antenna terminals – WCDMA V Channel Highest



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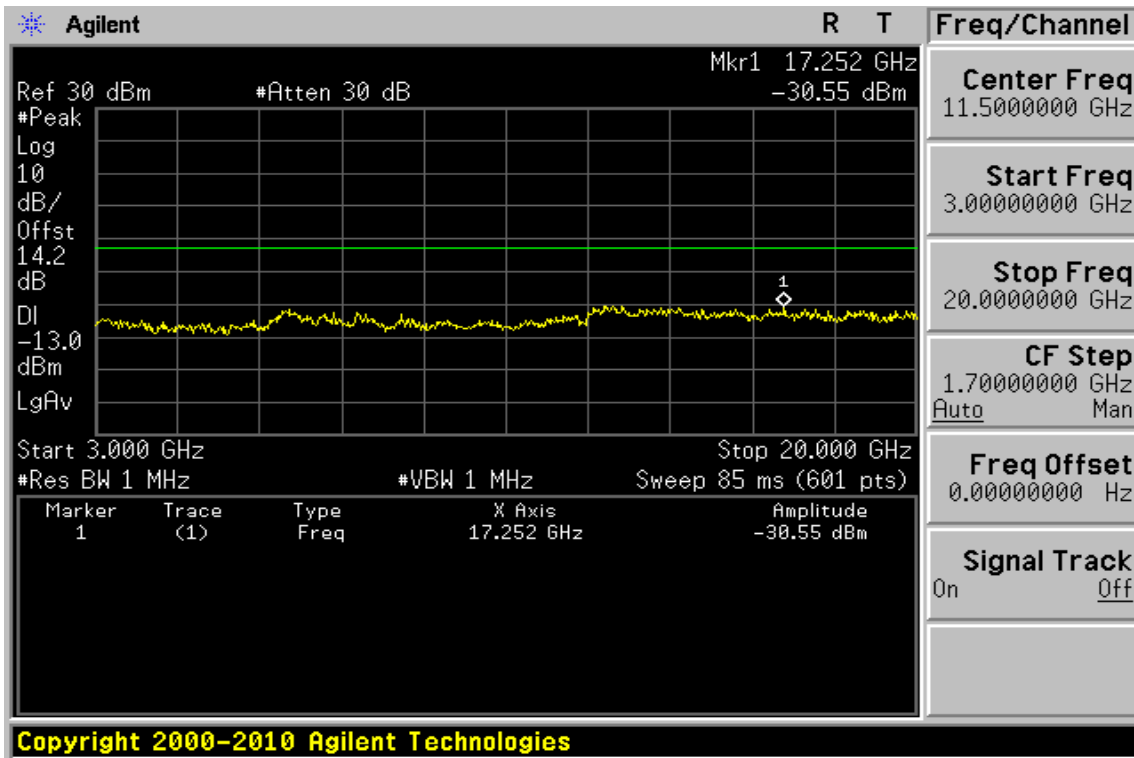
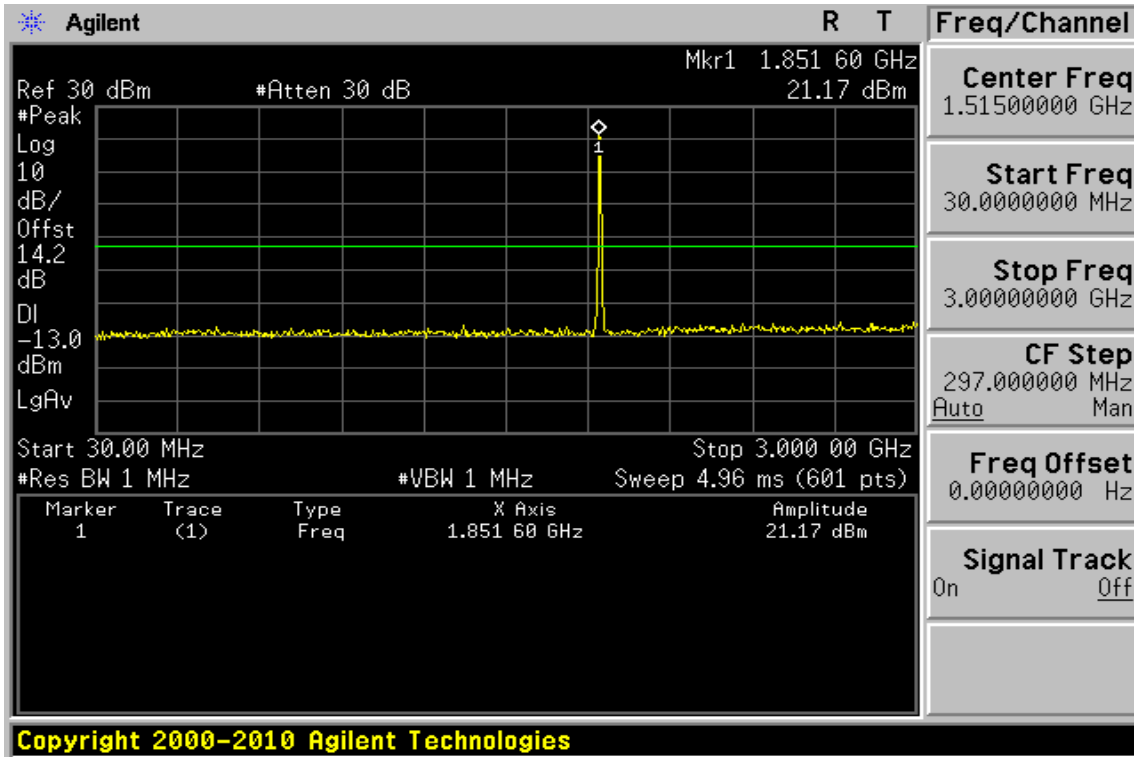
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Figure 9-31: Out of Band emission at antenna terminals – HSDPA II Channel Lowest



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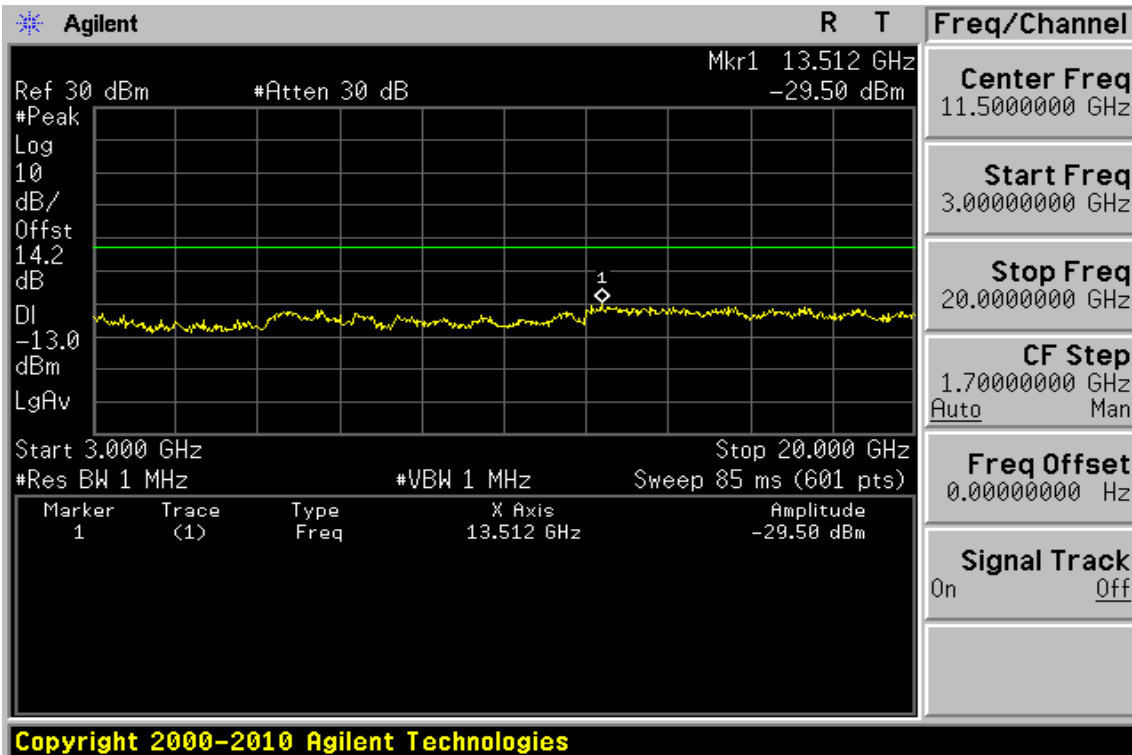
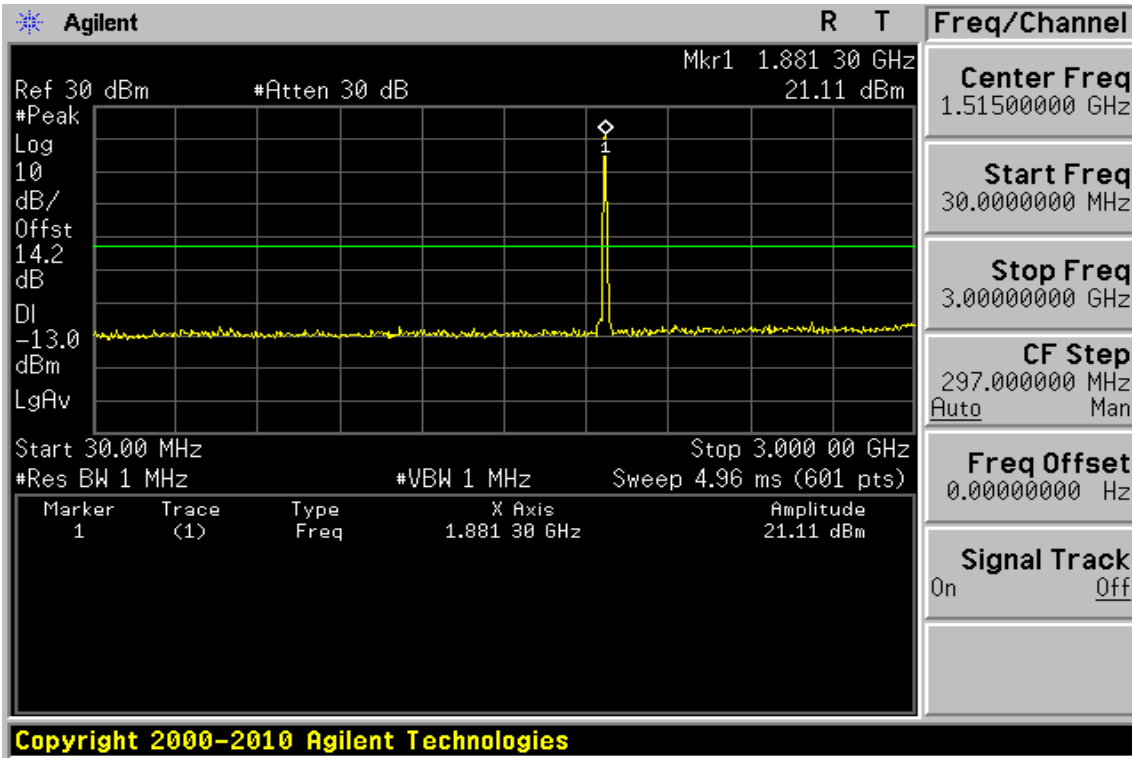
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Figure 9-32: Out of Band emission at antenna terminals – HSDPA II Channel Mid

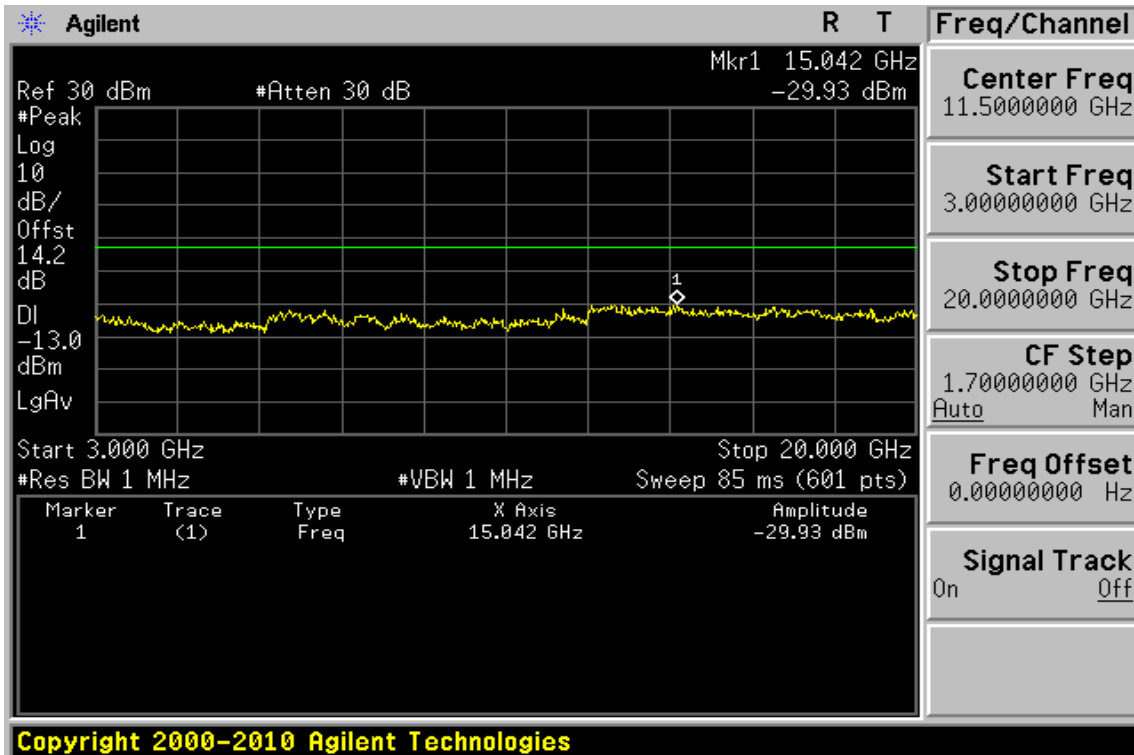
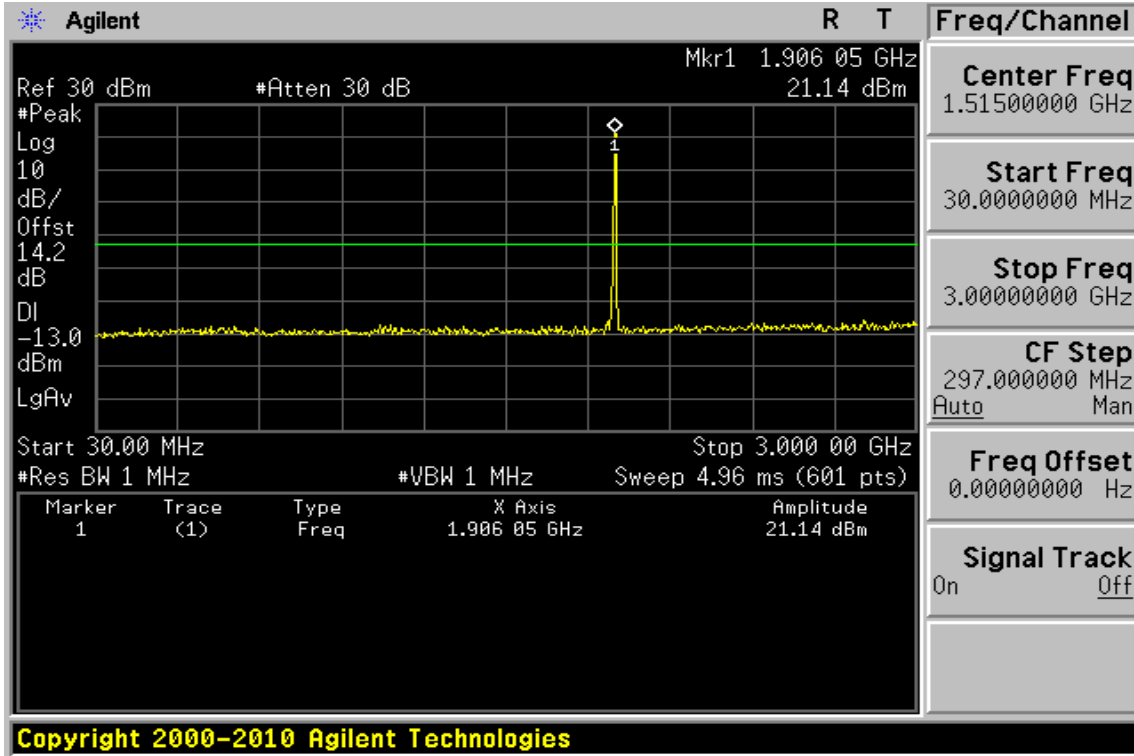


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Figure 9-33: Out of Band emission at antenna terminals – HSDPA II Channel Highest



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

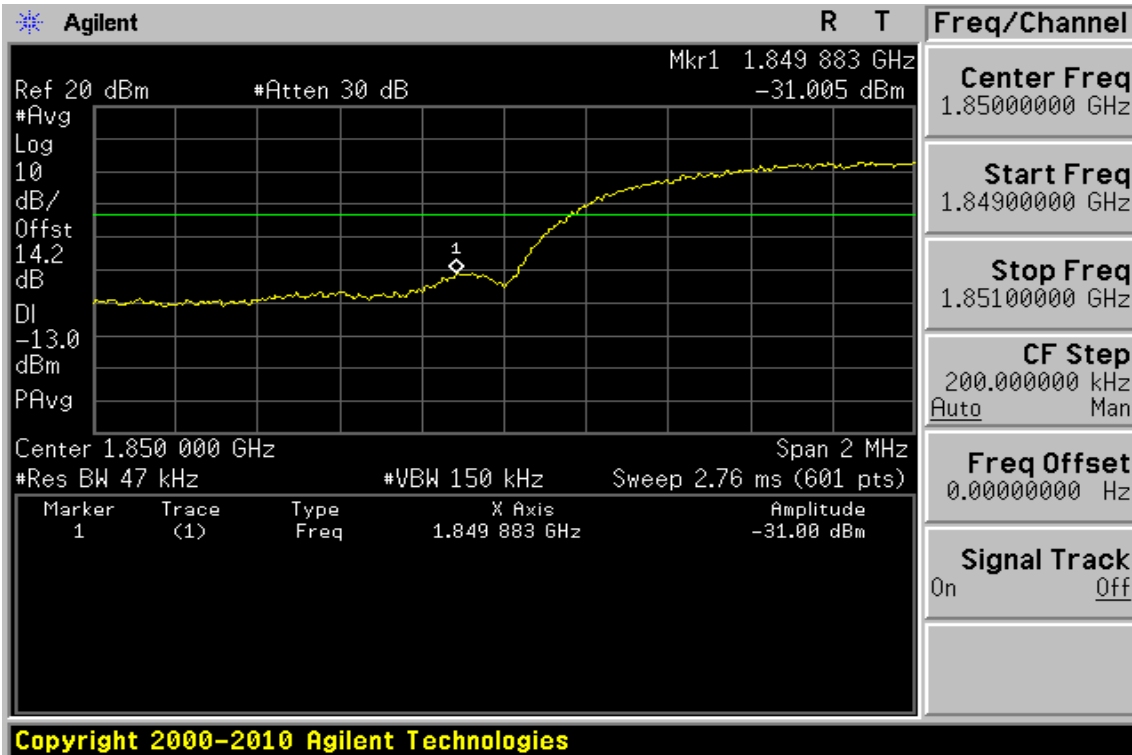
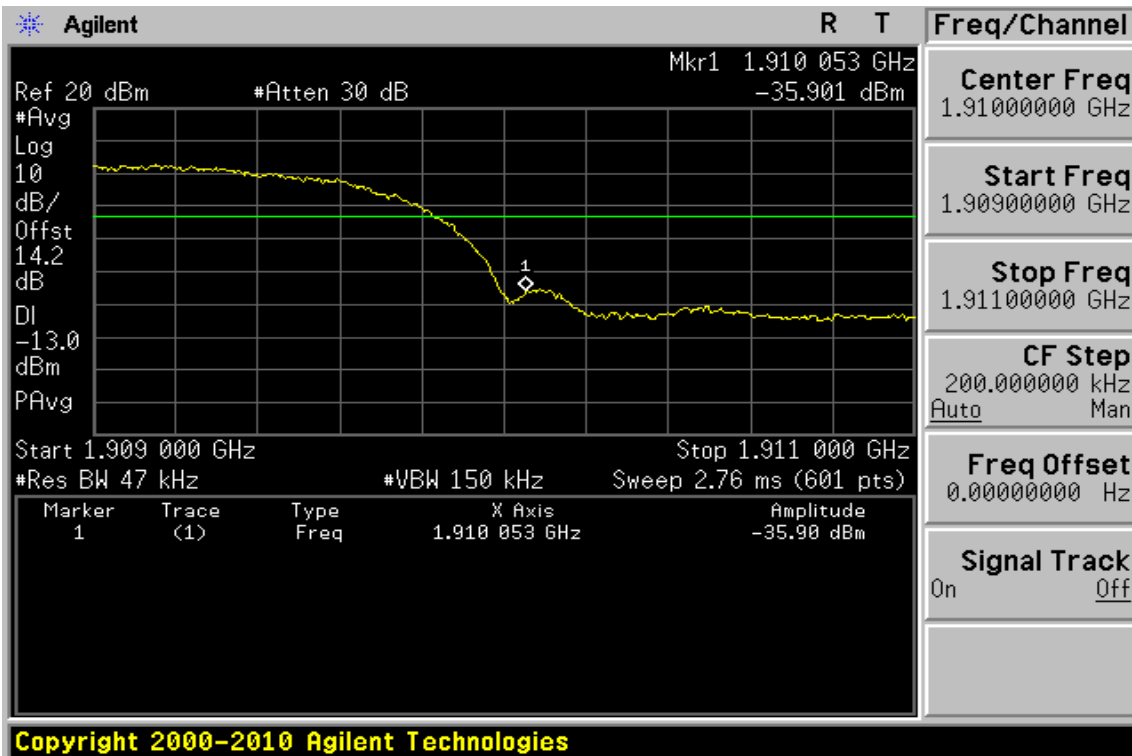


Figure 9-35: Band edge emission at antenna terminals – HSUPA II Channel Highest

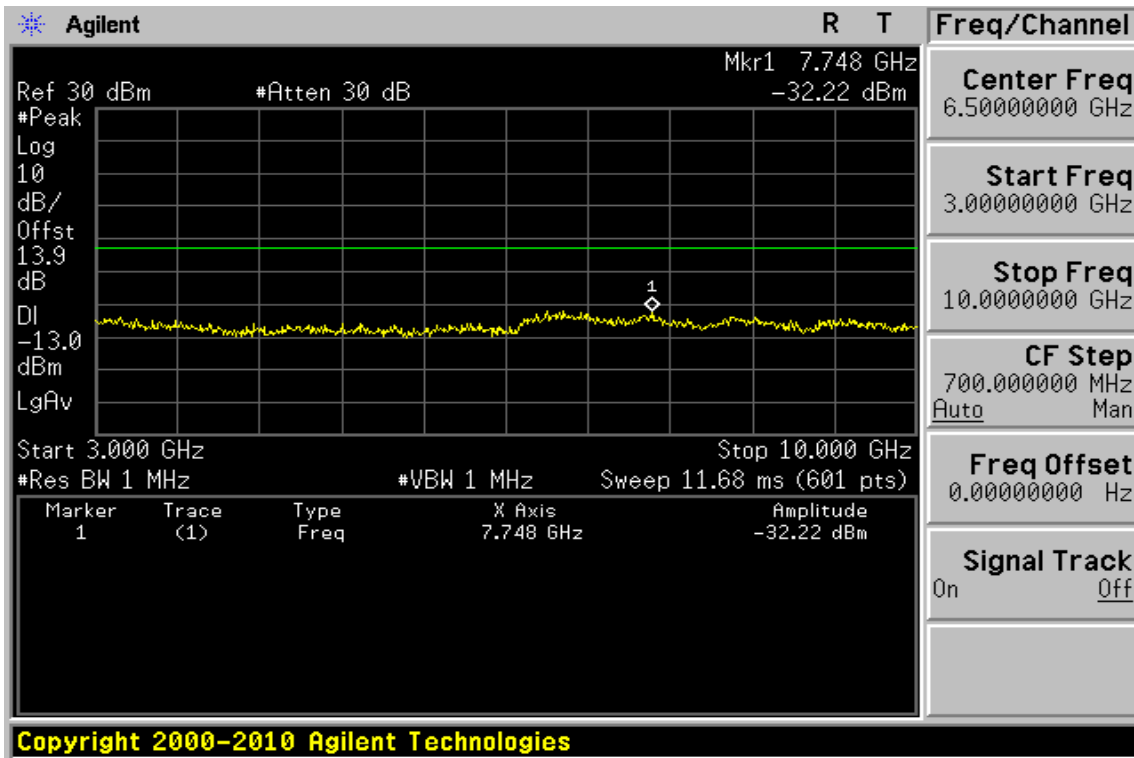
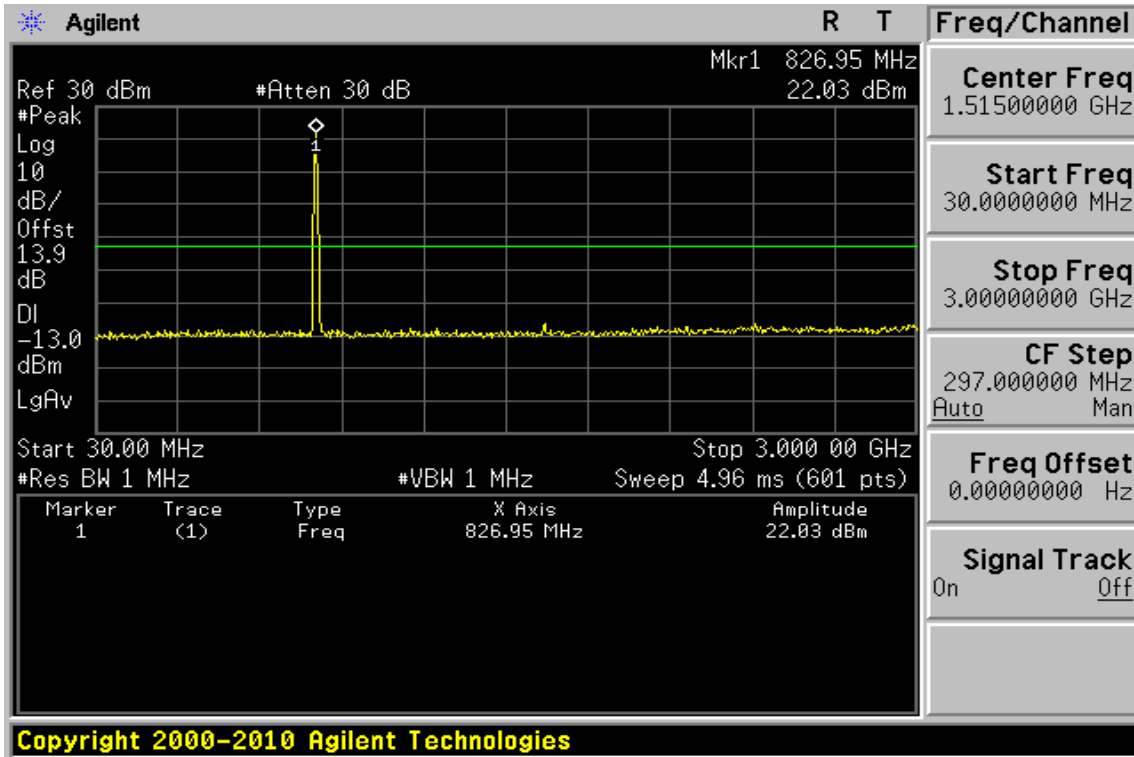


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Figure 9-36: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

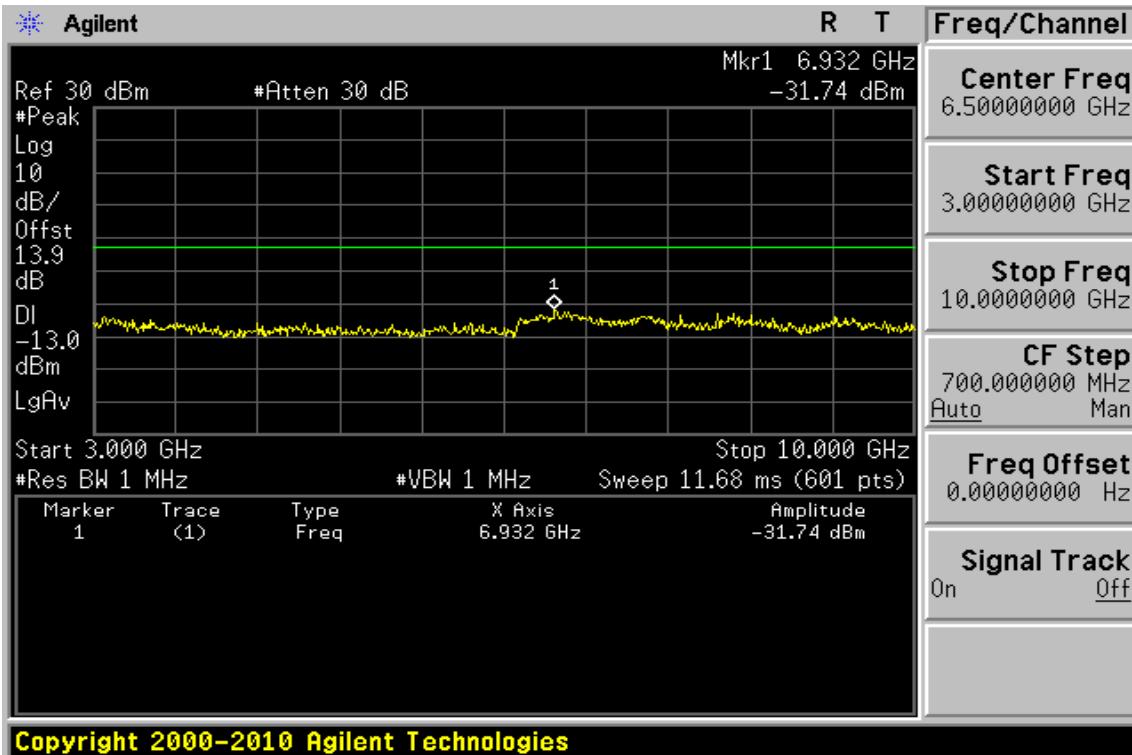
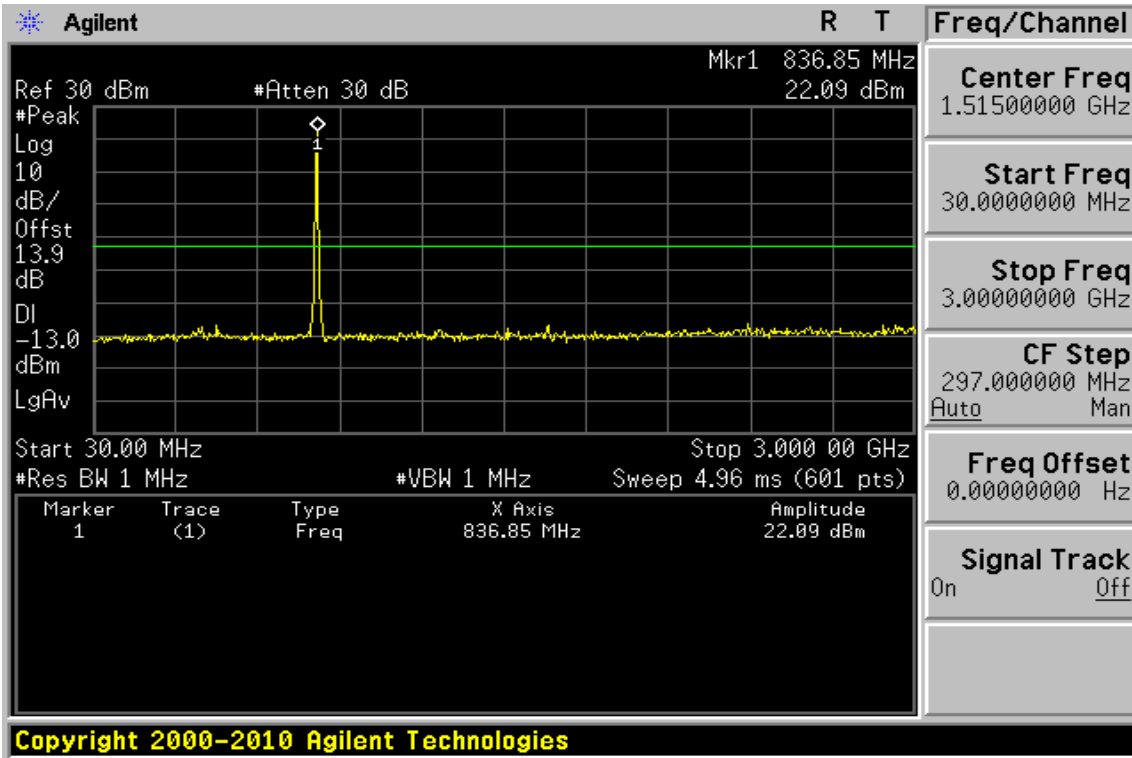


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Figure 9-37: Out of Band emission at antenna terminals – HSDPA V Channel Mid



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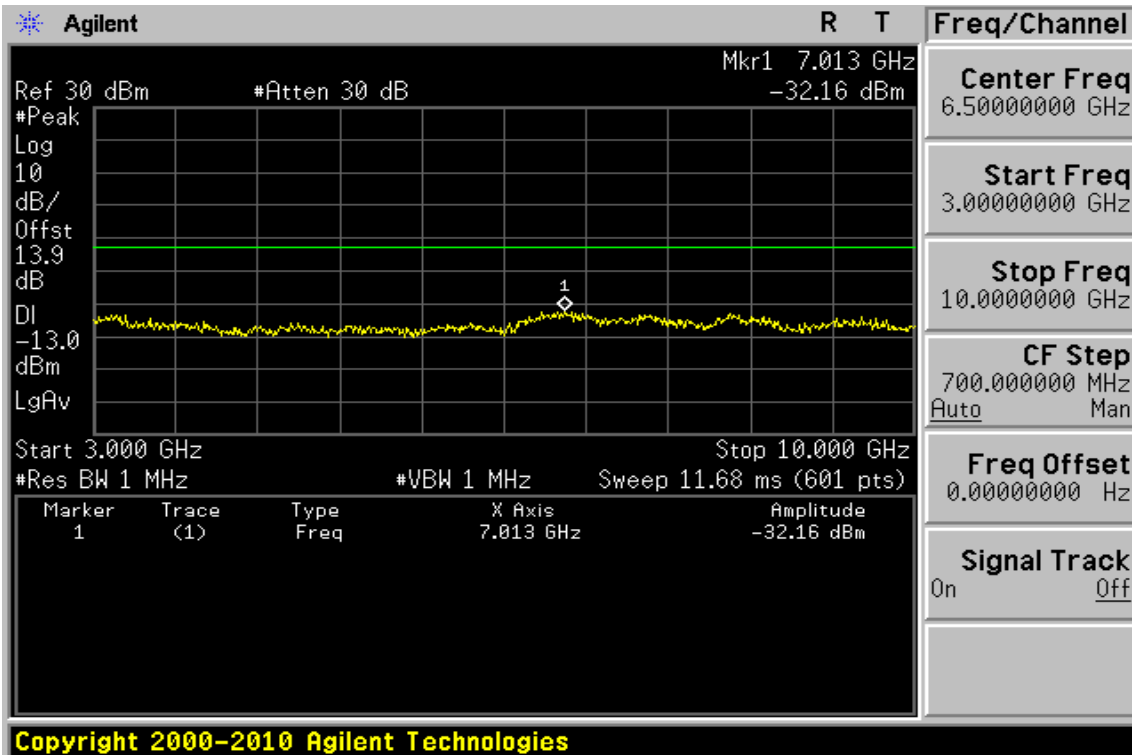
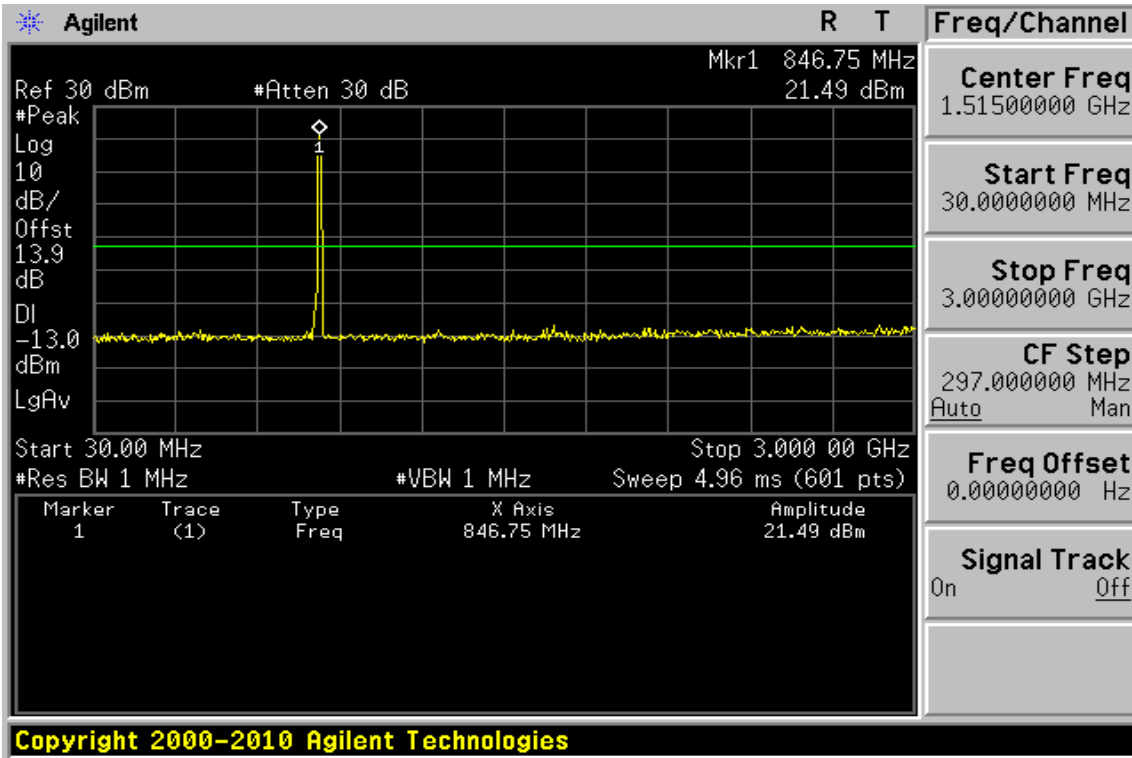
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Figure 9-38: Out of Band emission at antenna terminals – HSDPA V Channel Highest



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Figure 9-39: Band edge emission at antenna terminals – HSDPA V Channel Lowest

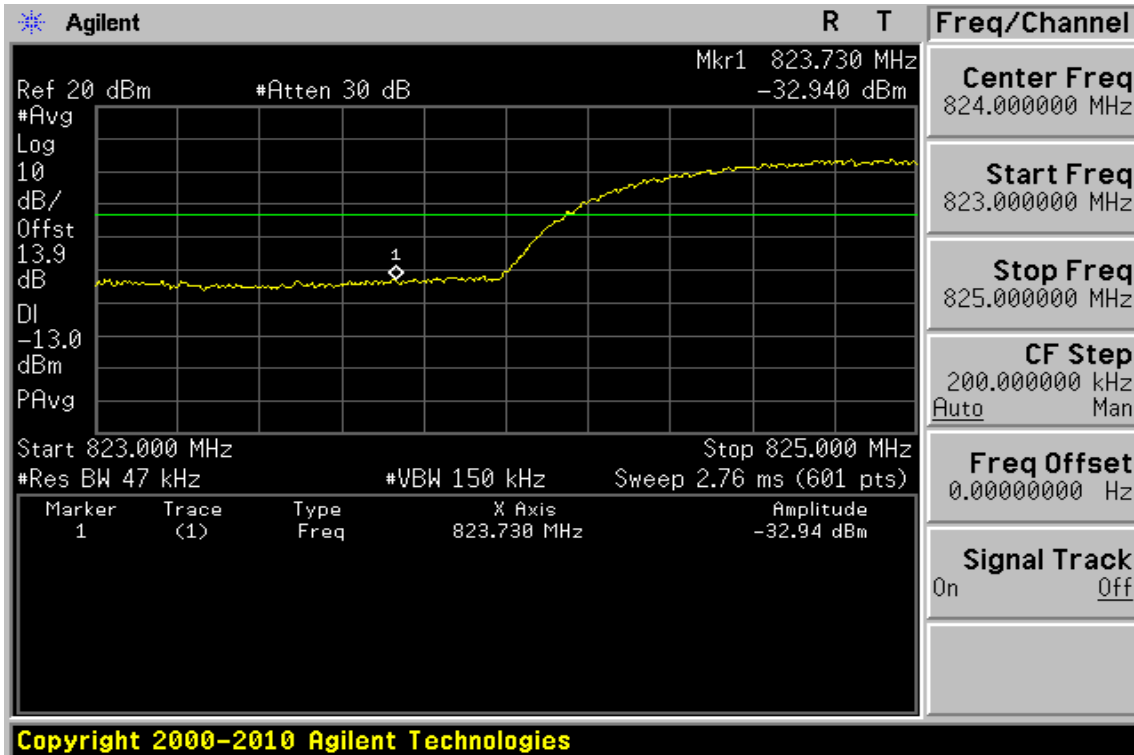
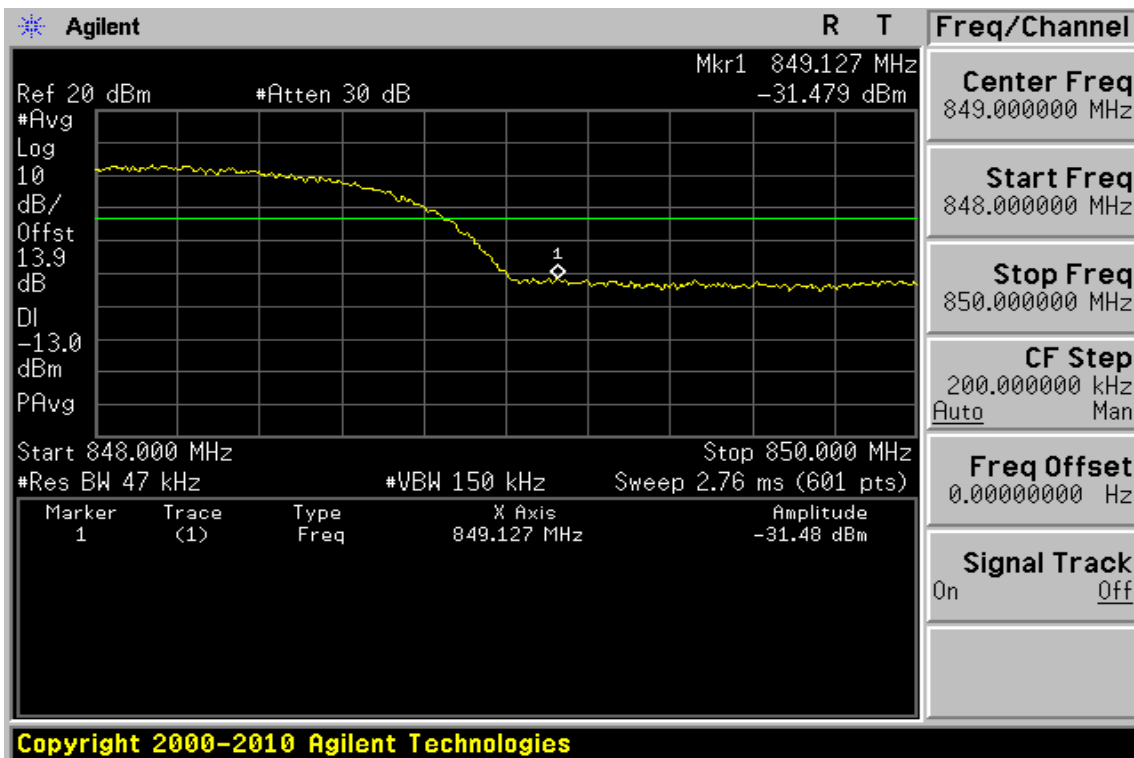


Figure 9-40: Band edge emission at antenna terminals – HSDPA V Channel Highest

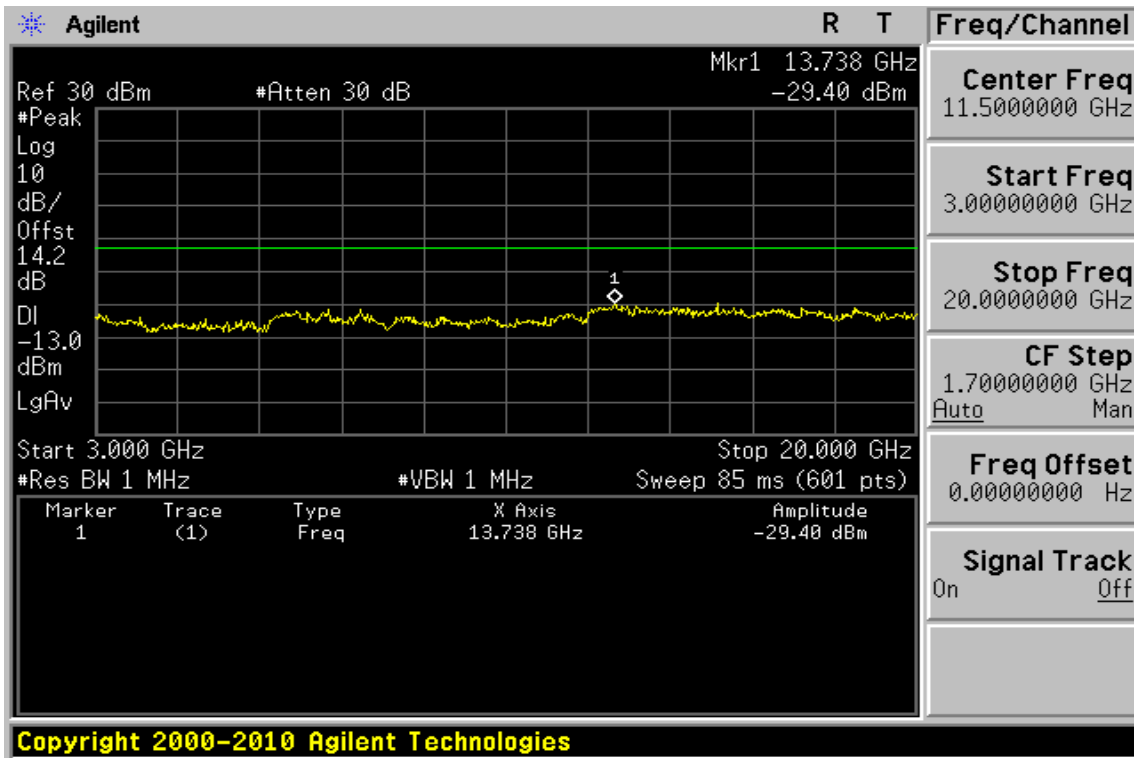
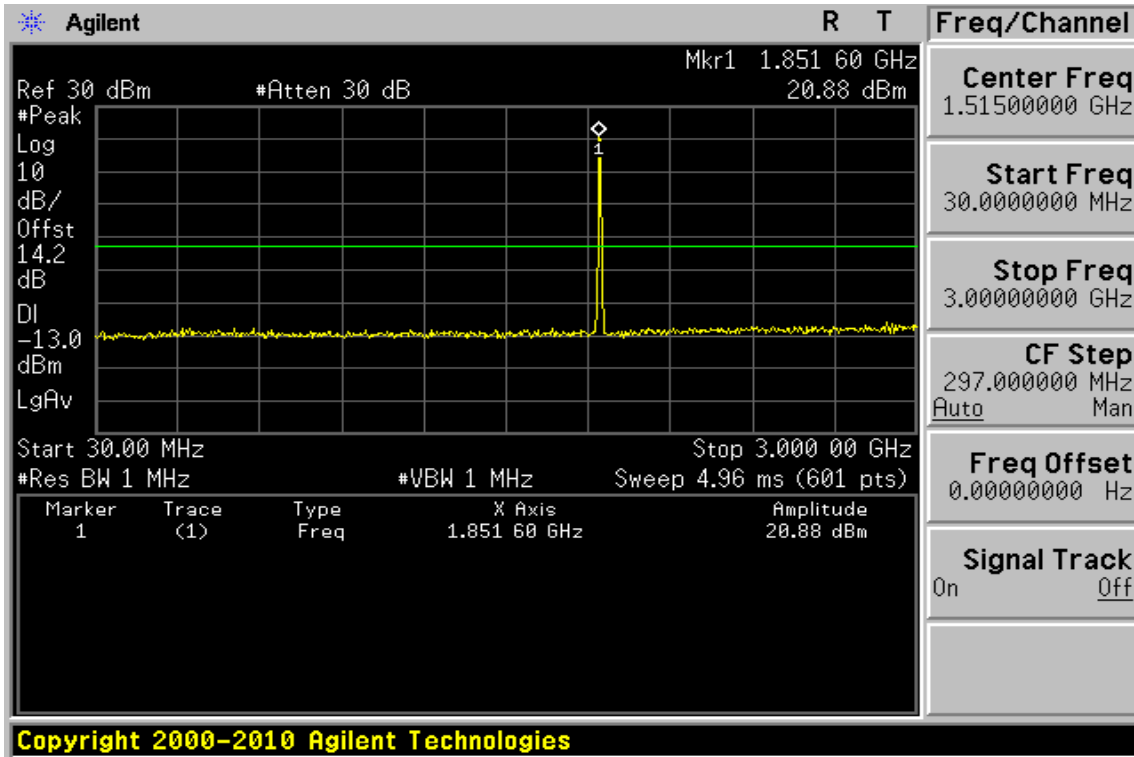


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Figure 9-41: Out of Band emission at antenna terminals – HSUPA II Channel Lowest



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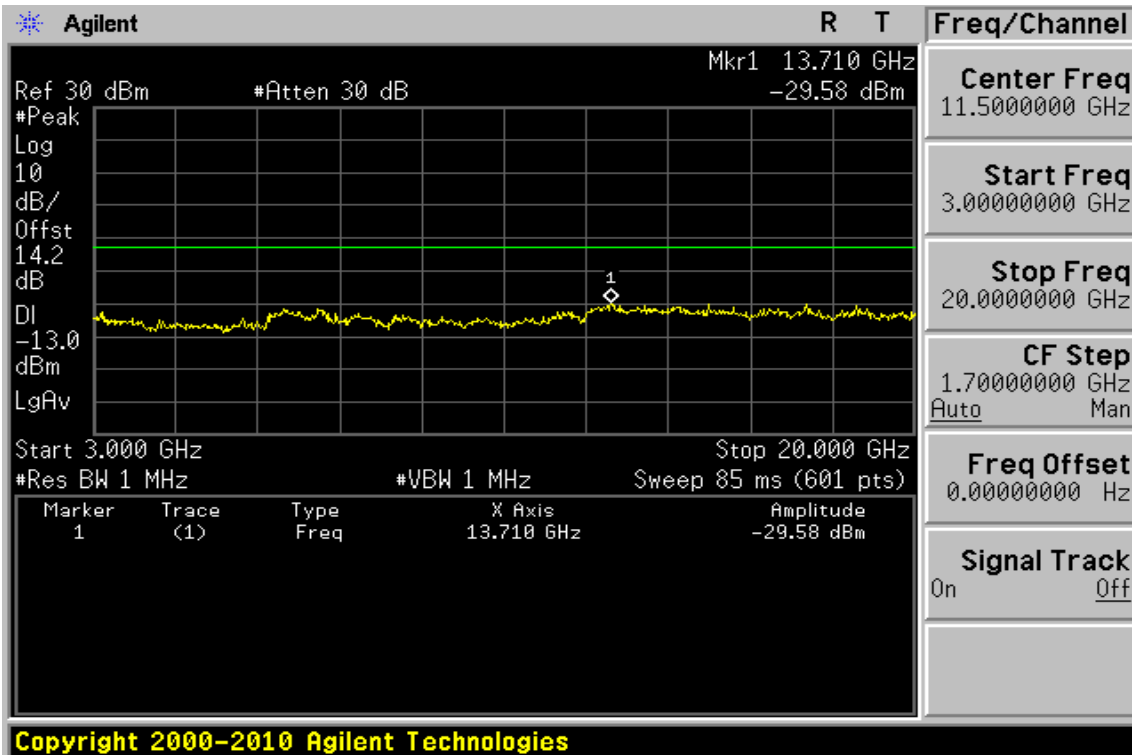
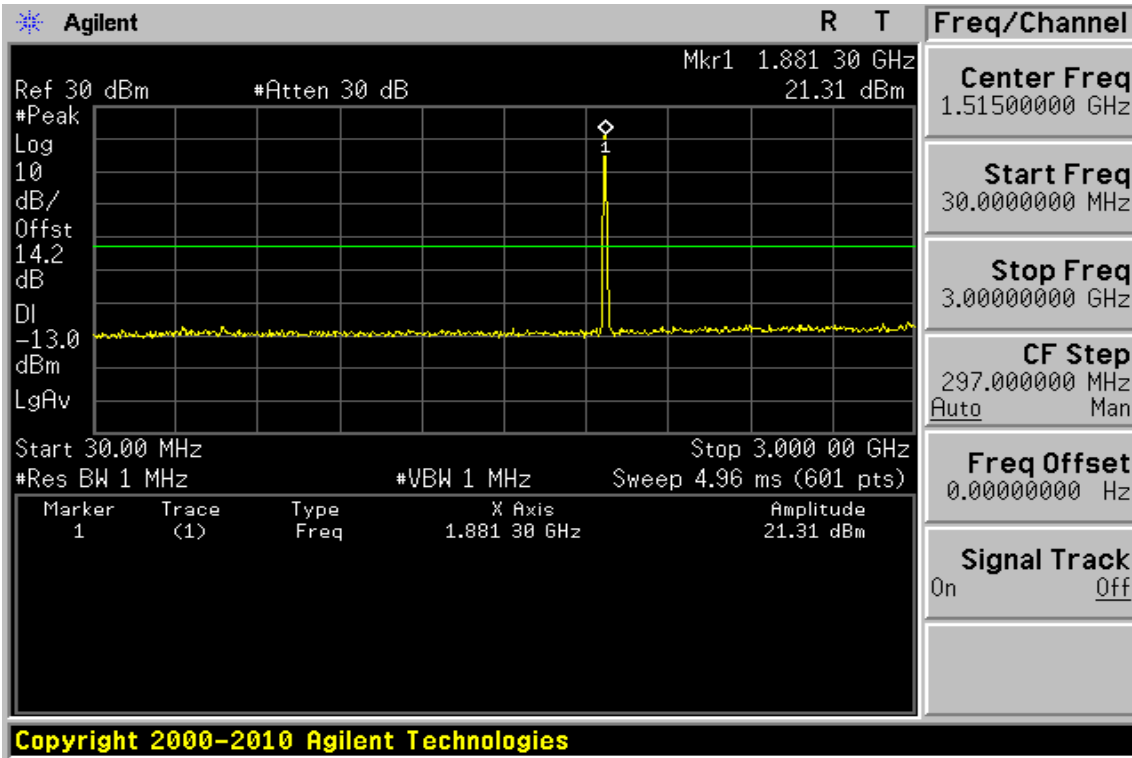
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Figure 9-42: Out of Band emission at antenna terminals – HSUPA II Channel Mid

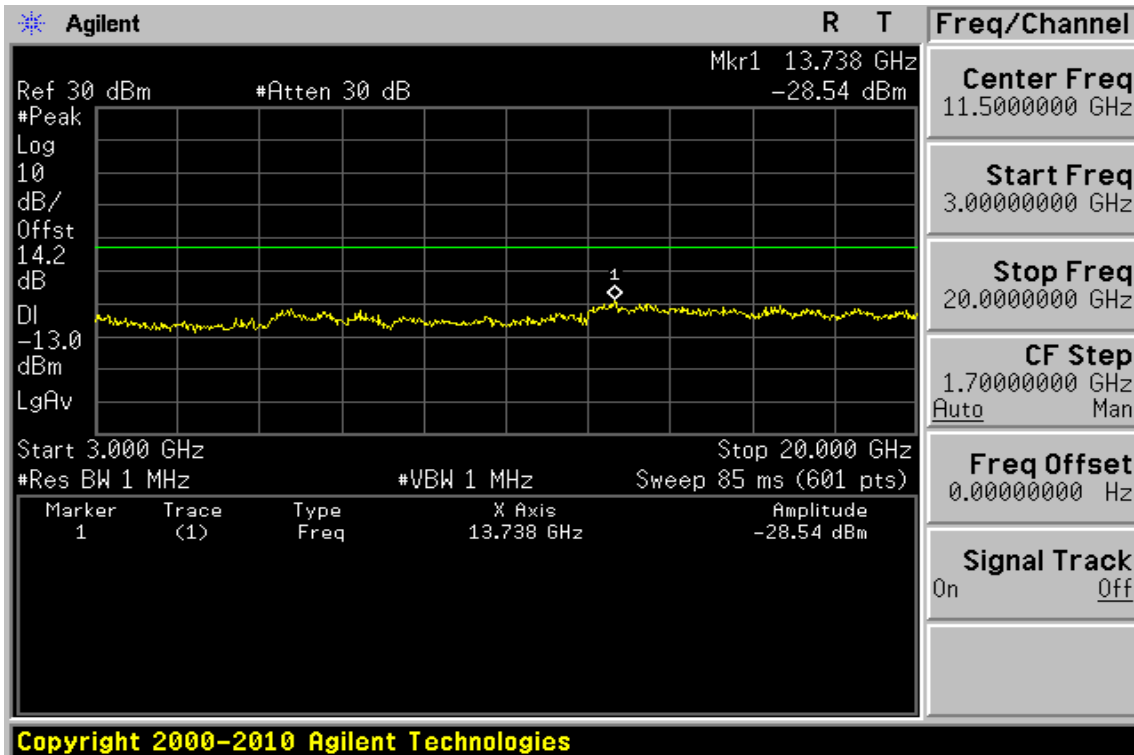
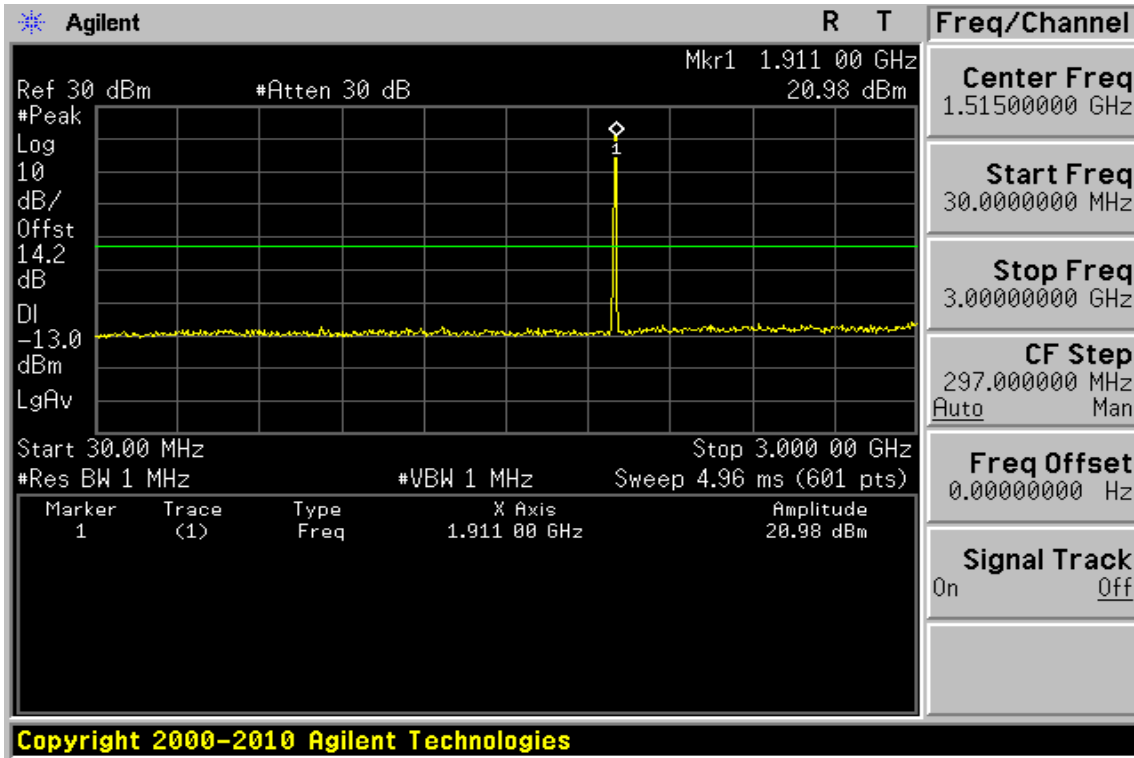


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Figure 9-43: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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Figure 9-44: Band edge emission at antenna terminals – HSUPA II Channel Lowest

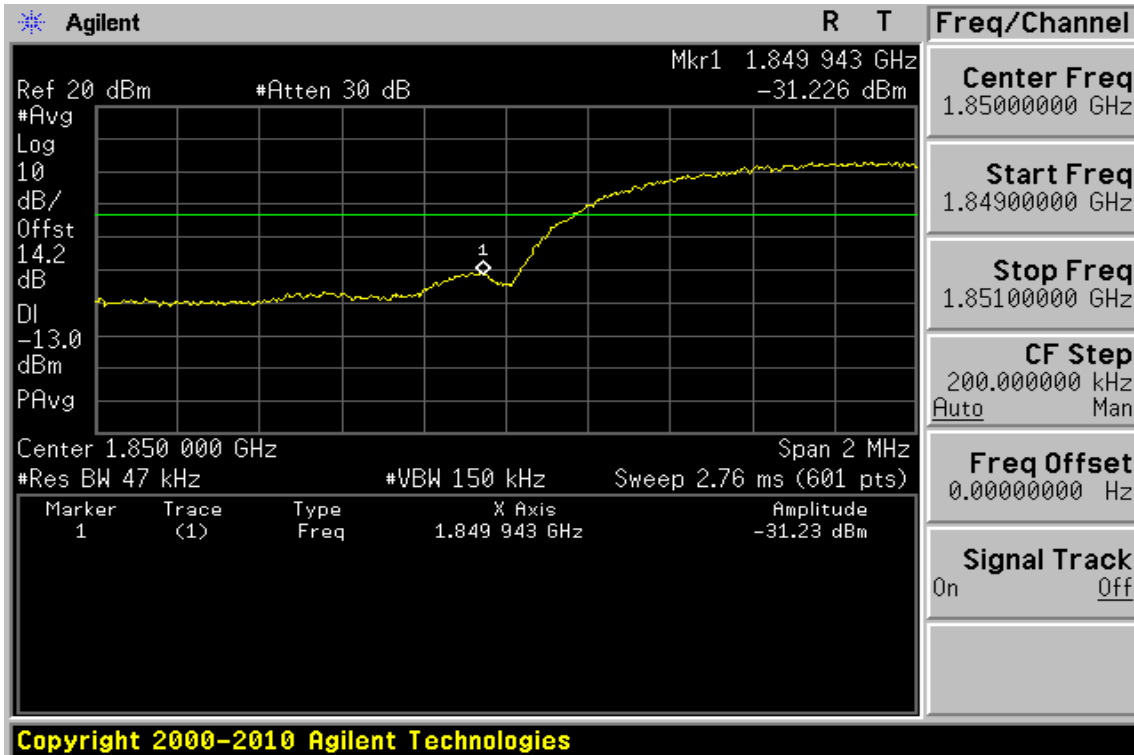
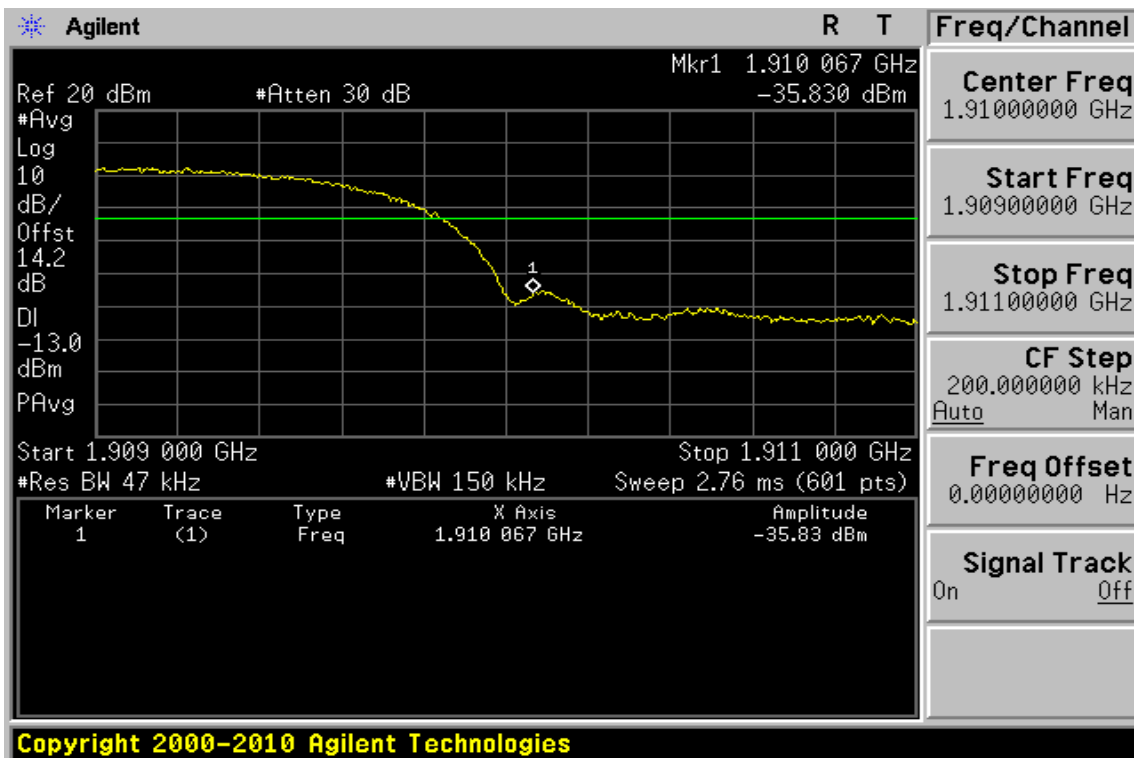


Figure 9-45: Band edge emission at antenna terminals – HSUPA II Channel Highest

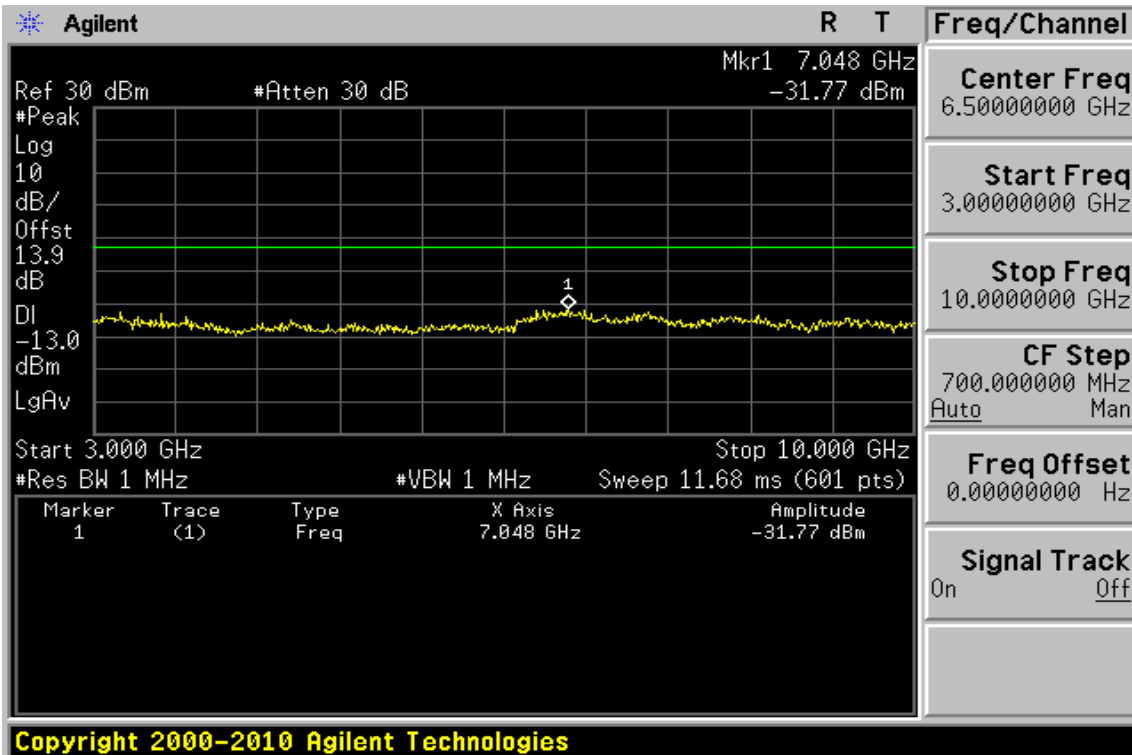
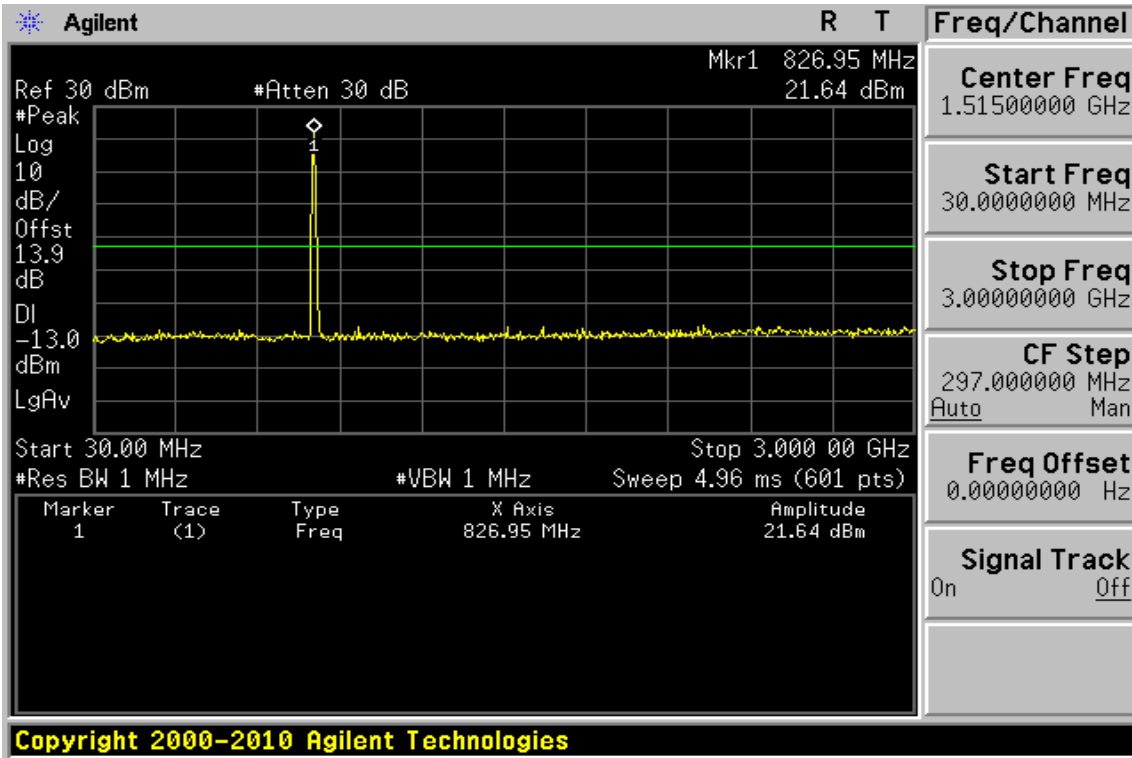


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Figure 9-46: Out of Band emission at antenna terminals – HSUPA V Channel Lowest

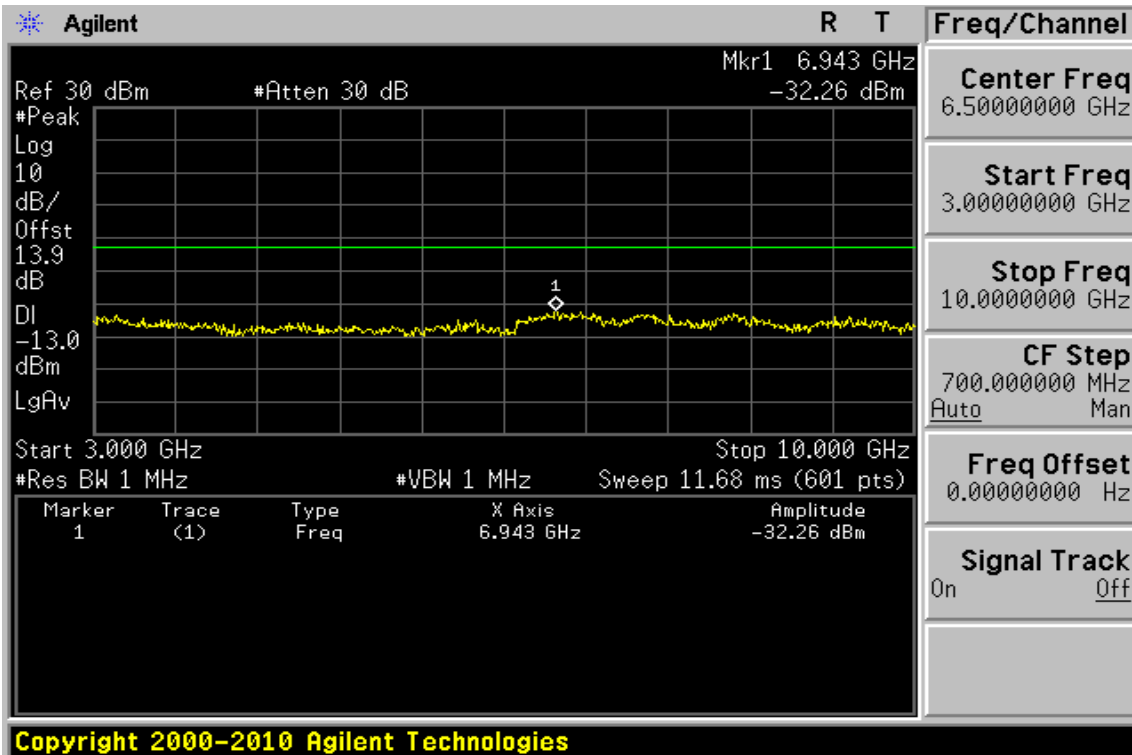
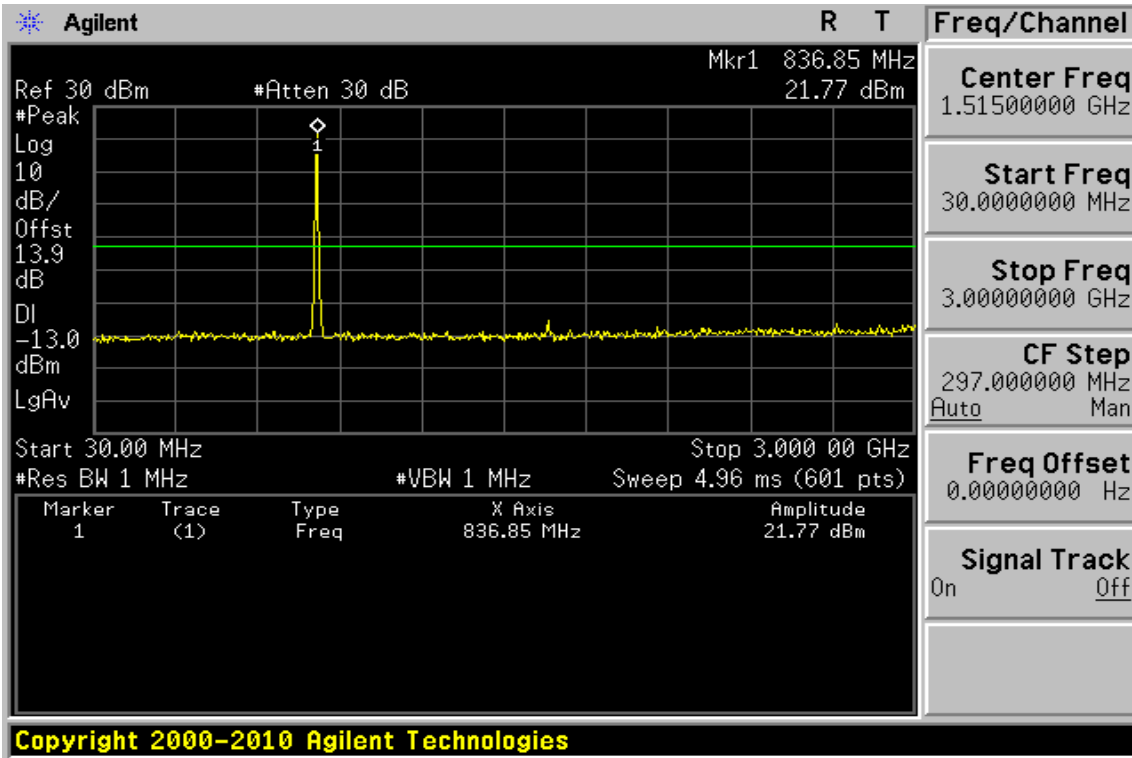


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Figure 9-47: Out of Band emission at antenna terminals – HSUPA V Channel Mid



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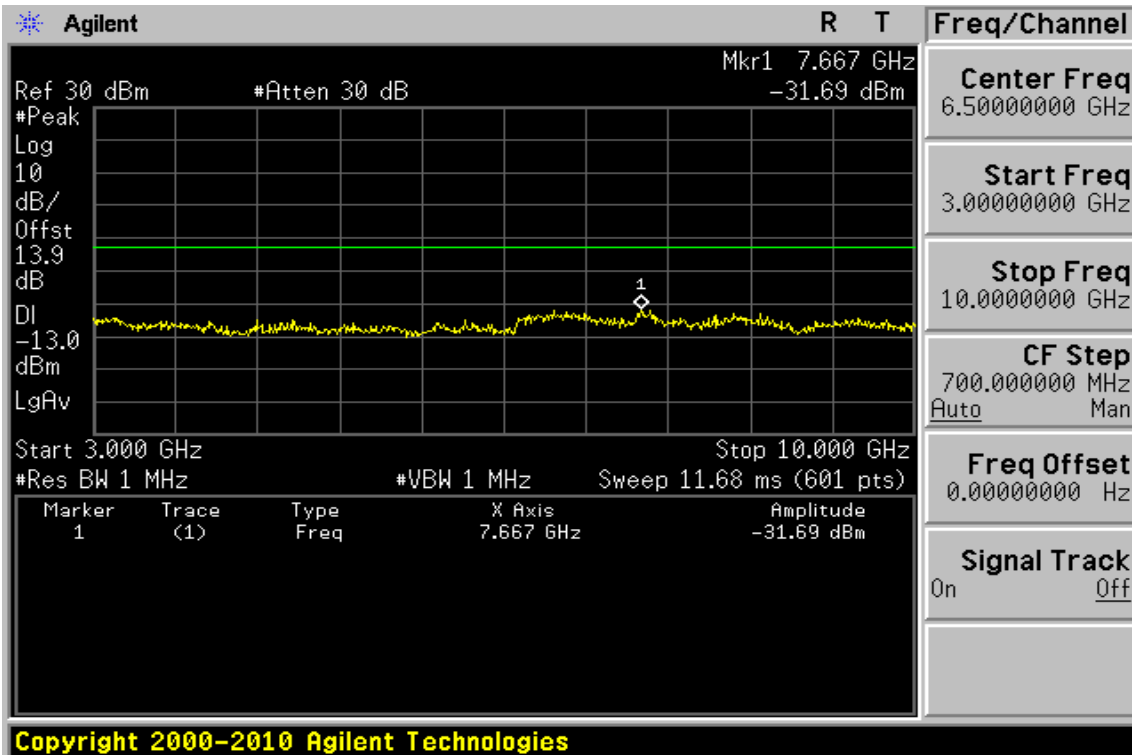
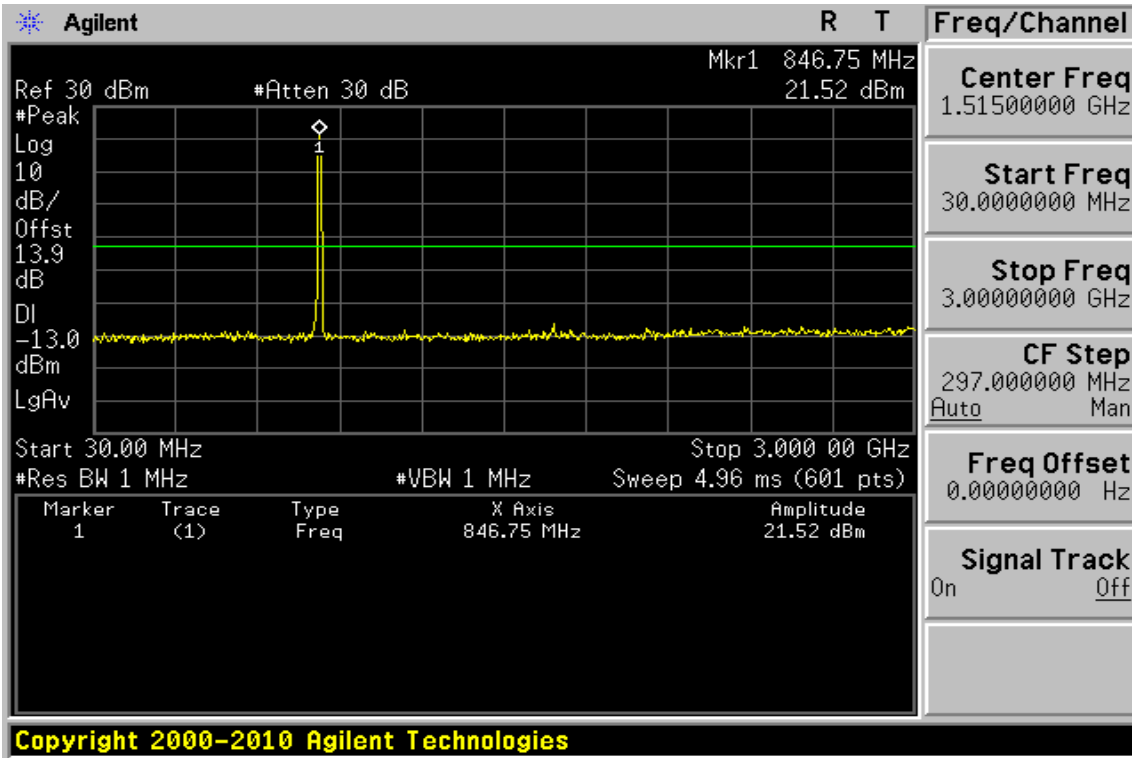
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Figure 9-48: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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Figure 9-49: Band edge emission at antenna terminals – HSUPA V Channel Lowest

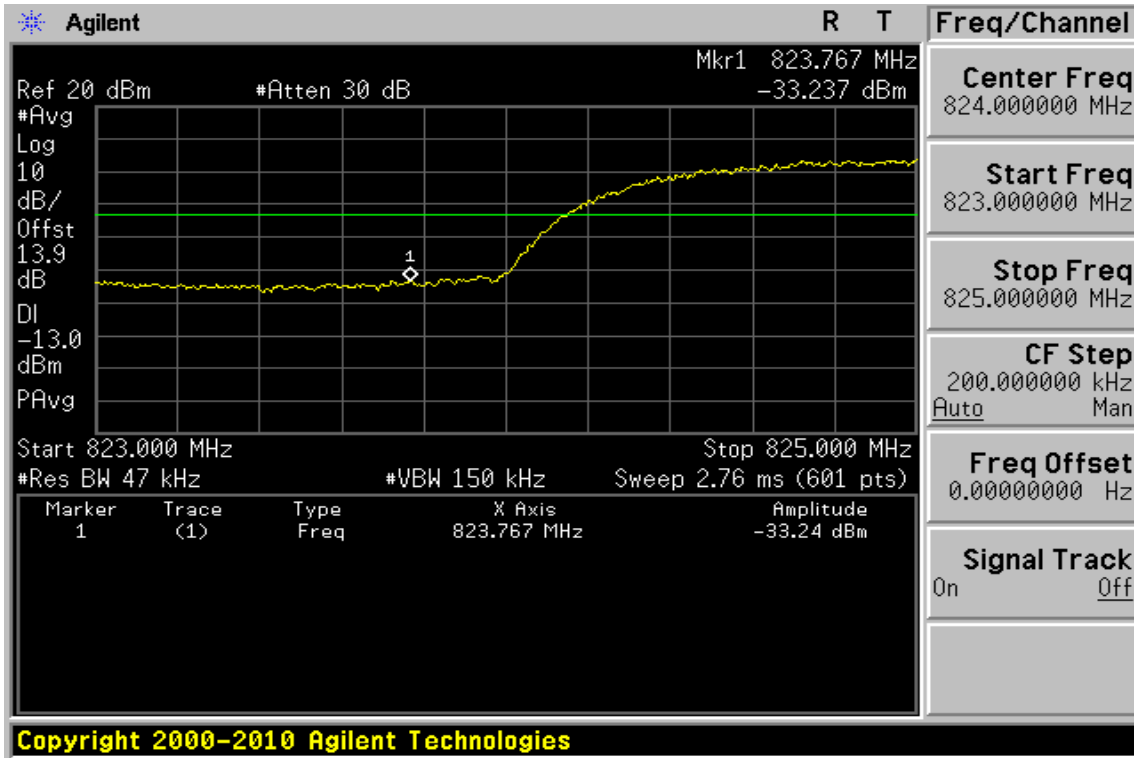
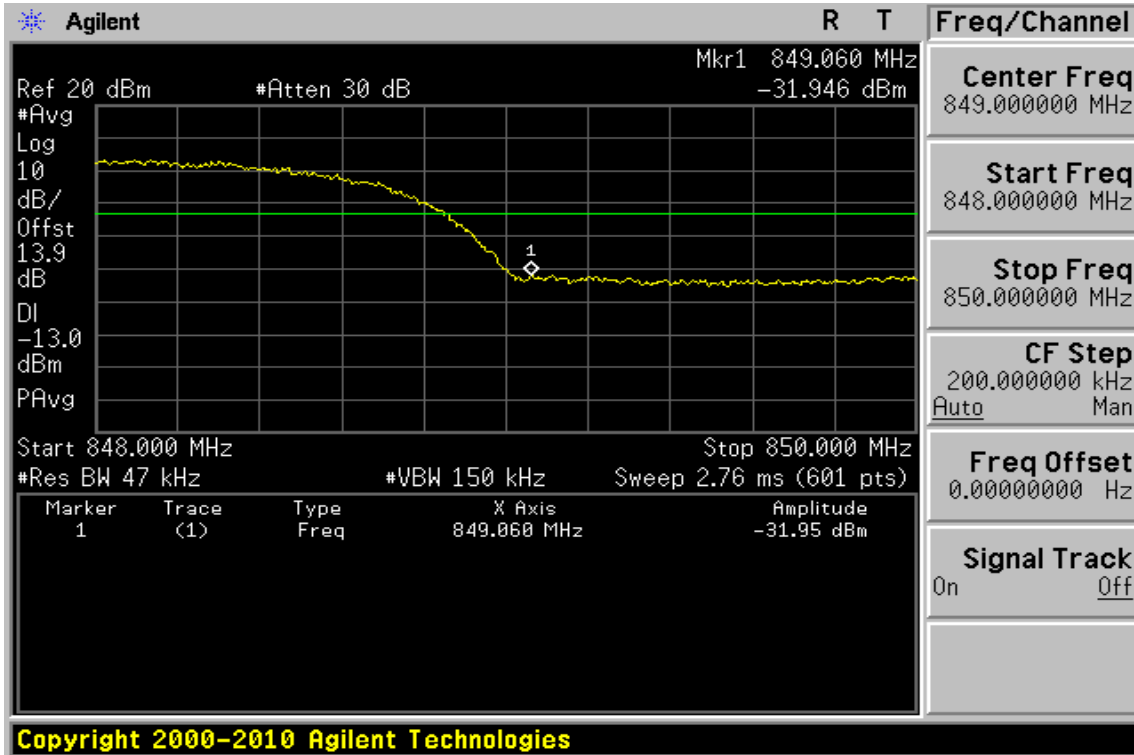


Figure 9-50: Band edge emission at antenna terminals – HSUPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

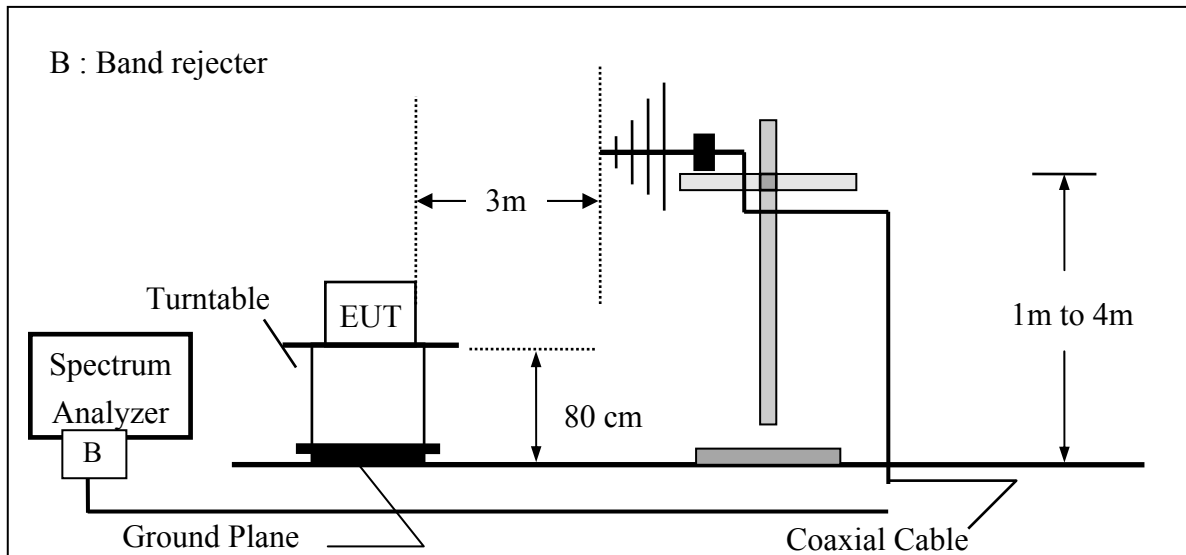
10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a) 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).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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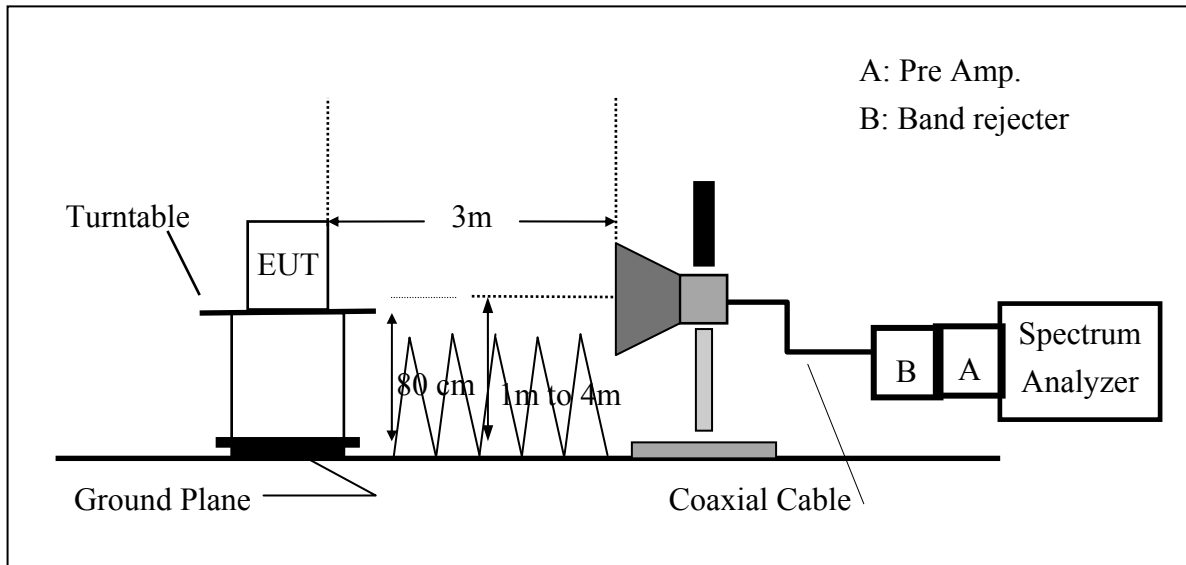
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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. 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 frequencies (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.

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Band	:GPRS 850	Test Date	:2014-05-08
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	S	-51.97	-36.73	-14.44	-0.80	-13.00	-38.97
254.07	S	-69.93	-71.71	3.50	-1.72	-13.00	-56.93
338.46	S	-66.85	-68.94	4.04	-1.95	-13.00	-53.85
465.53	S	-69.34	-70.69	3.61	-2.26	-13.00	-56.34
693.48	S	-66.19	-67.34	3.89	-2.73	-13.00	-53.19
773.99	S	-63.34	-64.25	3.81	-2.90	-13.00	-50.34
1648.40	H	-29.02	-28.15	3.54	-4.42	-13.00	-16.02
2472.60	H	-37.79	-35.99	3.65	-5.45	-13.00	-24.79
3296.80	H	-42.32	-41.41	5.51	-6.42	-13.00	-29.32
4121.00	H	-52.61	-52.55	7.10	-7.16	-13.00	-39.61
4945.20	H	---					
5769.40	H	-46.34	-45.97	8.20	-8.57	-13.00	-33.34
6593.60	H	-39.65	-39.30	8.81	-9.16	-13.00	-26.65
7417.80	H	-47.58	-47.67	9.89	-9.80	-13.00	-34.58
8242.00	H	-46.26	-46.54	10.60	-10.32	-13.00	-33.26

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	:2014-05-08
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
40.67	S	-66.47	-51.49	-14.16	-0.81	-13.00	-53.47
280.26	S	-68.33	-69.84	3.32	-1.81	-13.00	-55.33
290.93	S	-67.32	-68.93	3.45	-1.84	-13.00	-54.32
523.73	S	-70.70	-72.11	3.82	-2.42	-13.00	-57.70
699.30	S	-65.21	-66.35	3.88	-2.74	-13.00	-52.21
773.99	S	-62.17	-63.08	3.81	-2.90	-13.00	-49.17
1648.40	H	-34.17	-33.30	3.54	-4.42	-13.00	-21.17
2472.60	H	-40.09	-38.29	3.65	-5.45	-13.00	-27.09
3296.80	H	-44.69	-43.79	5.51	-6.42	-13.00	-31.69
4121.00	H	-48.88	-48.81	7.10	-7.16	-13.00	-35.88
4945.20	H	---					
5769.40	H	-44.32	-43.95	8.20	-8.57	-13.00	-31.32
6593.60	H	-35.95	-35.60	8.81	-9.16	-13.00	-22.95
7417.80	H	-43.29	-43.38	9.89	-9.80	-13.00	-30.29
8242.00	H	-44.47	-44.75	10.60	-10.32	-13.00	-31.47

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	:2014-05-08
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
43.58	S	-45.70	-31.14	-13.68	-0.88	-13.00	-32.70
248.25	S	-67.55	-69.28	3.43	-1.70	-13.00	-54.55
424.79	S	-68.28	-69.81	3.68	-2.15	-13.00	-55.28
468.44	S	-70.14	-71.50	3.62	-2.27	-13.00	-57.14
688.63	S	-65.96	-67.12	3.89	-2.73	-13.00	-52.96
942.77	S	-60.53	-60.84	3.63	-3.33	-13.00	-47.53
1673.20	H	-31.39	-30.40	3.46	-4.45	-13.00	-18.39
2509.80	H	-41.05	-39.27	3.72	-5.50	-13.00	-28.05
3346.40	H	-43.21	-42.41	5.67	-6.47	-13.00	-30.21
4183.00	H	-52.70	-52.58	7.10	-7.22	-13.00	-39.70
5019.60	H						
5856.20	H	-46.60	-46.16	8.20	-8.64	-13.00	-33.60
6692.80	H	-43.12	-42.82	8.94	-9.24	-13.00	-30.12
7529.40	H	-45.06	-45.20	10.02	-9.87	-13.00	-32.06
8366.00	H	-51.68	-51.97	10.70	-10.40	-13.00	-38.68

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	:2014-05-08
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-45.79	-31.37	-13.53	-0.90	-13.00	-32.79
236.61	S	-66.97	-68.70	3.39	-1.66	-13.00	-53.97
293.84	S	-66.73	-68.38	3.50	-1.85	-13.00	-53.73
468.44	S	-70.30	-71.66	3.62	-2.27	-13.00	-57.30
698.33	S	-66.73	-67.87	3.88	-2.74	-13.00	-53.73
953.44	S	-60.17	-60.23	3.40	-3.34	-13.00	-47.17
1673.20	H	-35.50	-34.51	3.46	-4.45	-13.00	-22.50
2509.80	H	-41.28	-39.51	3.72	-5.50	-13.00	-28.28
3346.40	H	-47.60	-46.80	5.67	-6.47	-13.00	-34.60
4183.00	H	-48.92	-48.80	7.10	-7.22	-13.00	-35.92
5019.60	H						
5856.20	H	-43.39	-42.95	8.20	-8.64	-13.00	-30.39
6692.80	H	-39.62	-39.32	8.93	-9.24	-13.00	-26.62
7529.40	H	-39.07	-39.22	10.03	-9.88	-13.00	-26.07
8366.00	H	-48.92	-49.21	10.69	-10.40	-13.00	-35.92

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	:2014-05-08
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-46.87	-32.44	-13.53	-0.90	-13.00	-33.87
236.61	S	-67.01	-68.74	3.39	-1.66	-13.00	-54.01
291.90	S	-67.09	-68.72	3.47	-1.85	-13.00	-54.09
528.58	S	-70.20	-71.60	3.84	-2.43	-13.00	-57.20
694.45	S	-66.78	-67.94	3.89	-2.73	-13.00	-53.78
942.77	S	-59.79	-60.09	3.63	-3.33	-13.00	-46.79
1697.60	H	-33.38	-32.28	3.39	-4.49	-13.00	-20.38
2546.40	H	-40.21	-38.46	3.79	-5.54	-13.00	-27.21
3395.20	H	-44.12	-43.40	5.80	-6.52	-13.00	-31.12
4244.00	H	-55.10	-54.94	7.10	-7.27	-13.00	-42.10
5092.80	H						
5941.60	H	-50.81	-50.31	8.20	-8.71	-13.00	-37.81
6790.40	H	-42.25	-41.99	9.05	-9.31	-13.00	-29.25
7639.20	H	-43.08	-43.25	10.12	-9.94	-13.00	-30.08
8488.00	H	-51.71	-52.02	10.79	-10.48	-13.00	-38.71

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	:2014-05-08
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-46.75	-32.32	-13.53	-0.90	-13.00	-33.75
248.25	S	-67.29	-69.02	3.43	-1.70	-13.00	-54.29
294.81	S	-67.37	-69.04	3.52	-1.85	-13.00	-54.37
468.44	S	-70.48	-71.84	3.62	-2.27	-13.00	-57.48
700.27	S	-66.26	-67.40	3.88	-2.74	-13.00	-53.26
942.77	S	-58.80	-59.11	3.63	-3.33	-13.00	-45.80
1697.60	H	-37.69	-36.59	3.39	-4.49	-13.00	-24.69
2546.40	H	-39.48	-37.73	3.79	-5.54	-13.00	-26.48
3395.20	H	-51.84	-51.13	5.80	-6.52	-13.00	-38.84
4244.00	H	-49.04	-48.87	7.10	-7.27	-13.00	-36.04
5092.80	H						
5941.60	H	-43.61	-43.10	8.20	-8.71	-13.00	-30.61
6790.40	H	-41.76	-41.50	9.05	-9.31	-13.00	-28.76
7639.20	H	-36.64	-36.81	10.12	-9.94	-13.00	-23.64
8488.00	H	-47.03	-47.33	10.79	-10.48	-13.00	-34.03

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: GPRS 1900 Mode

Operation Band	:GPRS 1900	Test Date	:2014-05-08
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
39.70	S	-50.20	-37.23	-12.17	-0.80	-13.00	-37.20
271.53	S	-64.89	-68.65	5.55	-1.78	-13.00	-51.89
293.84	S	-67.01	-70.81	5.65	-1.85	-13.00	-54.01
519.85	S	-69.42	-72.97	5.96	-2.41	-13.00	-56.42
689.60	S	-64.38	-67.69	6.04	-2.73	-13.00	-51.38
957.32	S	-62.94	-64.88	5.29	-3.35	-13.00	-49.94
3700.40	H	-46.15	-47.97	8.62	-6.80	-13.00	-33.15
5550.60	H	-35.95	-37.85	10.30	-8.40	-13.00	-22.95
7400.80	H	-29.07	-31.25	11.96	-9.78	-13.00	-16.07
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:2014-05-08
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
81.41	S	-63.82	-61.65	-1.13	-1.03	-13.00	-50.82
279.29	S	-61.80	-65.47	5.48	-1.81	-13.00	-48.80
295.78	S	-60.65	-64.48	5.69	-1.86	-13.00	-47.65
462.62	S	-67.74	-71.24	5.75	-2.25	-13.00	-54.74
685.72	S	-63.87	-67.20	6.05	-2.72	-13.00	-50.87
772.05	S	-62.16	-65.22	5.95	-2.89	-13.00	-49.16
3700.40	H	-55.18	-56.99	8.62	-6.80	-13.00	-42.18
5550.60	H	-44.91	-46.81	10.30	-8.40	-13.00	-31.91
7400.80	H	-34.53	-36.71	11.96	-9.78	-13.00	-21.53
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:2014-05-08
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-50.28	-37.31	-12.17	-0.80	-13.00	-37.28
280.26	S	-64.87	-68.53	5.47	-1.81	-13.00	-51.87
291.90	S	-67.80	-71.57	5.62	-1.85	-13.00	-54.80
536.34	S	-69.01	-72.56	6.01	-2.45	-13.00	-56.01
696.39	S	-63.90	-67.20	6.03	-2.74	-13.00	-50.90
941.80	S	-62.64	-65.10	5.78	-3.32	-13.00	-49.64
3760.00	H	-46.82	-48.70	8.74	-6.85	-13.00	-33.82
5640.00	H	-34.69	-36.52	10.30	-8.47	-13.00	-21.69
7520.00	H	-28.31	-30.56	12.12	-9.87	-13.00	-15.31
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:2014-05-08
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
81.41	S	-63.73	-61.57	-1.13	-1.03	-13.00	-50.73
279.29	S	-62.59	-66.26	5.48	-1.81	-13.00	-49.59
298.69	S	-60.94	-64.82	5.75	-1.87	-13.00	-47.94
473.29	S	-67.61	-71.12	5.80	-2.28	-13.00	-54.61
698.33	S	-64.21	-67.51	6.03	-2.74	-13.00	-51.21
783.69	S	-63.13	-66.22	6.01	-2.92	-13.00	-50.13
3760.00	H	-53.93	-55.82	8.74	-6.85	-13.00	-40.93
5640.00	H	-44.17	-46.00	10.30	-8.47	-13.00	-31.17
7520.00	H	-34.84	-37.08	12.12	-9.87	-13.00	-21.84
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:2014-05-08
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-49.97	-37.00	-12.17	-0.80	-13.00	-36.97
245.34	S	-63.85	-67.72	5.56	-1.69	-13.00	-50.85
291.90	S	-67.33	-71.10	5.62	-1.85	-13.00	-54.33
504.33	S	-69.40	-72.96	5.92	-2.36	-13.00	-56.40
685.72	S	-64.56	-67.88	6.05	-2.72	-13.00	-51.56
949.56	S	-63.25	-65.69	5.78	-3.34	-13.00	-50.25
3819.60	H	-45.48	-47.44	8.86	-6.90	-13.00	-32.48
5729.40	H	-34.31	-36.07	10.30	-8.54	-13.00	-21.31
7639.20	H	-31.54	-33.81	12.21	-9.94	-13.00	-18.54
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:2014-05-08
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
80.44	S	-63.10	-60.63	-1.46	-1.01	-13.00	-50.10
280.26	S	-61.42	-65.08	5.47	-1.81	-13.00	-48.42
290.93	S	-60.76	-64.52	5.60	-1.84	-13.00	-47.76
469.41	S	-68.42	-71.92	5.78	-2.27	-13.00	-55.42
692.51	S	-64.28	-67.59	6.04	-2.73	-13.00	-51.28
822.49	S	-62.70	-65.74	6.06	-3.02	-13.00	-49.70
3819.60	H	-51.19	-53.15	8.86	-6.90	-13.00	-38.19
5729.40	H	-44.40	-46.16	10.30	-8.54	-13.00	-31.40
7639.20	H	-35.65	-37.92	12.21	-9.94	-13.00	-22.65
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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: WCDMA II Mode

Operation Band	:WCDMA B2	Test Date	:2014-05-08
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
38.73	S	-49.70	-36.61	-12.29	-0.80	-13.00	-36.70
280.26	S	-66.92	-70.58	5.47	-1.81	-13.00	-53.92
290.93	S	-66.97	-70.73	5.60	-1.84	-13.00	-53.97
549.92	S	-69.53	-73.08	6.04	-2.49	-13.00	-56.53
692.51	S	-64.14	-67.45	6.04	-2.73	-13.00	-51.14
937.92	S	-62.86	-65.33	5.79	-3.32	-13.00	-49.86
3704.80	H	-40.99	-42.81	8.63	-6.80	-13.00	-27.99
5557.20	H	-34.23	-36.12	10.30	-8.40	-13.00	-21.23
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:WCDMA B2	Test Date	:2014-05-08
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-65.14	-52.17	-12.17	-0.80	-13.00	-52.14
280.26	S	-64.50	-68.16	5.47	-1.81	-13.00	-51.50
294.81	S	-61.70	-65.52	5.67	-1.85	-13.00	-48.70
550.89	S	-68.37	-71.91	6.03	-2.49	-13.00	-55.37
689.60	S	-64.20	-67.51	6.04	-2.73	-13.00	-51.20
773.02	S	-62.22	-65.27	5.95	-2.90	-13.00	-49.22
3704.80	H	-48.00	-49.83	8.63	-6.80	-13.00	-35.00
5557.20	H	-43.99	-45.88	10.30	-8.41	-13.00	-30.99
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:WCDMA B2	Test Date	:2014-05-08
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-49.45	-36.48	-12.17	-0.80	-13.00	-36.45
279.29	S	-65.78	-69.44	5.48	-1.81	-13.00	-52.78
292.87	S	-66.70	-70.48	5.64	-1.85	-13.00	-53.70
522.76	S	-69.25	-72.81	5.97	-2.42	-13.00	-56.25
694.45	S	-64.37	-67.67	6.04	-2.73	-13.00	-51.37
915.61	S	-63.07	-65.59	5.80	-3.28	-13.00	-50.07
3760.00	H	-40.31	-42.19	8.74	-6.85	-13.00	-27.31
5640.00	H	-36.36	-38.19	10.30	-8.47	-13.00	-23.36
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:WCDMA B2	Test Date	:2014-05-08
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-64.90	-51.94	-12.17	-0.80	-13.00	-51.90
277.35	S	-64.04	-67.73	5.49	-1.80	-13.00	-51.04
291.90	S	-61.98	-65.75	5.62	-1.85	-13.00	-48.98
465.53	S	-67.78	-71.28	5.76	-2.26	-13.00	-54.78
693.48	S	-63.94	-67.24	6.04	-2.73	-13.00	-50.94
773.99	S	-62.91	-65.97	5.96	-2.90	-13.00	-49.91
3760.00	H	-47.83	-49.72	8.74	-6.85	-13.00	-34.83
5640.00	H	-43.81	-45.64	10.30	-8.47	-13.00	-30.81
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:WCDMA B2	Test Date	:2014-05-08
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-49.56	-36.59	-12.17	-0.80	-13.00	-36.56
277.35	S	-66.05	-69.74	5.49	-1.80	-13.00	-53.05
291.90	S	-67.97	-71.74	5.62	-1.85	-13.00	-54.97
550.89	S	-69.28	-72.82	6.03	-2.49	-13.00	-56.28
700.27	S	-63.80	-67.09	6.03	-2.74	-13.00	-50.80
947.62	S	-62.84	-65.29	5.78	-3.33	-13.00	-49.84
3815.20	H	-34.74	-36.69	8.86	-6.90	-13.00	-21.74
5722.80	H	-34.64	-36.40	10.30	-8.54	-13.00	-21.64
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:WCDMA B2	Test Date	:2014-05-08
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-64.62	-51.65	-12.17	-0.80	-13.00	-51.62
275.41	S	-63.52	-67.24	5.51	-1.79	-13.00	-50.52
293.84	S	-63.33	-67.14	5.65	-1.85	-13.00	-50.33
517.91	S	-68.40	-71.96	5.96	-2.40	-13.00	-55.40
700.27	S	-63.88	-67.17	6.03	-2.74	-13.00	-50.88
769.14	S	-62.97	-66.01	5.93	-2.89	-13.00	-49.97
3815.20	H	-45.24	-47.19	8.85	-6.90	-13.00	-32.24
5722.80	H	-43.59	-45.35	10.30	-8.54	-13.00	-30.59
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + 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	:2014-05-08
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
40.67	S	-53.39	-38.41	-14.16	-0.81	-13.00	-40.39
236.61	S	-66.65	-68.38	3.39	-1.66	-13.00	-53.65
432.55	S	-58.01	-59.47	3.63	-2.17	-13.00	-45.01
553.80	S	-68.10	-69.45	3.85	-2.50	-13.00	-55.10
614.91	S	-62.49	-63.45	3.59	-2.64	-13.00	-49.49
676.02	S	-66.02	-67.21	3.91	-2.71	-13.00	-53.02
1652.80	H	-40.94	-40.07	3.54	-4.42	-13.00	-27.94
2479.20	H	-54.12	-52.32	3.65	-5.45	-13.00	-41.12
3305.60	H	-49.04	-48.17	5.57	-6.43	-13.00	-36.04
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	:2014-05-08
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
43.58	S	-58.87	-44.31	-13.68	-0.88	-13.00	-45.87
96.93	S	-67.80	-65.65	-0.95	-1.20	-13.00	-54.80
236.61	S	-66.09	-67.82	3.39	-1.66	-13.00	-53.09
294.81	S	-67.53	-69.20	3.52	-1.85	-13.00	-54.53
558.65	S	-67.96	-69.25	3.81	-2.51	-13.00	-54.96
695.42	S	-66.80	-67.95	3.89	-2.73	-13.00	-53.80
1652.80	H	-45.95	-45.08	3.54	-4.42	-13.00	-32.95
2479.20	H	-53.87	-52.08	3.67	-5.46	-13.00	-40.87
3305.60	H	-53.65	-52.76	5.54	-6.43	-13.00	-40.65
4132.00	H	-54.74	-54.67	7.10	-7.16	-13.00	-41.74
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	:2014-05-08
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
39.70	S	-56.99	-41.88	-14.32	-0.80	-13.00	-43.99
236.61	S	-65.98	-67.72	3.39	-1.66	-13.00	-52.98
297.72	S	-69.07	-70.78	3.58	-1.86	-13.00	-56.07
558.65	S	-67.99	-69.29	3.81	-2.51	-13.00	-54.99
614.91	S	-63.71	-64.67	3.59	-2.64	-13.00	-50.71
691.54	S	-66.60	-67.76	3.89	-2.73	-13.00	-53.60
1673.20	H	-43.02	-42.03	3.46	-4.45	-13.00	-30.02
2509.80	H	-50.29	-48.51	3.71	-5.48	-13.00	-37.29
3346.40	H	-48.05	-47.25	5.67	-6.47	-13.00	-35.05
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	:2014-05-08
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-58.98	-44.56	-13.53	-0.90	-13.00	-45.98
236.61	S	-66.17	-67.90	3.39	-1.66	-13.00	-53.17
292.87	S	-68.67	-70.31	3.49	-1.85	-13.00	-55.67
558.65	S	-67.96	-69.26	3.81	-2.51	-13.00	-54.96
614.91	S	-63.79	-64.75	3.59	-2.64	-13.00	-50.79
696.39	S	-66.43	-67.58	3.88	-2.74	-13.00	-53.43
1673.20	H	-44.59	-43.61	3.46	-4.45	-13.00	-31.59
2509.80	H	-52.53	-50.75	3.72	-5.50	-13.00	-39.53
3346.40	H	-53.21	-52.41	5.67	-6.47	-13.00	-40.21
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	:2014-05-08
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
38.73	S	-52.47	-37.23	-14.44	-0.80	-13.00	-39.47
236.61	S	-65.83	-67.56	3.39	-1.66	-13.00	-52.83
323.91	S	-67.54	-69.50	3.89	-1.92	-13.00	-54.54
480.08	S	-65.24	-66.61	3.68	-2.30	-13.00	-52.24
614.91	S	-63.87	-64.82	3.59	-2.64	-13.00	-50.87
676.02	S	-66.42	-67.61	3.91	-2.71	-13.00	-53.42
1693.20	H	-45.30	-44.23	3.41	-4.48	-13.00	-32.30
2539.80	H	-54.47	-52.72	3.78	-5.53	-13.00	-41.47
3386.40	H	-47.91	-47.17	5.77	-6.51	-13.00	-34.91
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	:2014-05-08
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 65 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plam	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
44.55	S	-57.26	-42.84	-13.53	-0.90	-13.00	-44.26
236.61	S	-66.64	-68.37	3.39	-1.66	-13.00	-53.64
292.87	S	-69.50	-71.13	3.49	-1.85	-13.00	-56.50
480.08	S	-67.99	-69.37	3.68	-2.30	-13.00	-54.99
692.51	S	-65.96	-67.12	3.89	-2.73	-13.00	-52.96
760.41	S	-65.26	-66.13	3.74	-2.87	-13.00	-52.26
1693.20	H	-51.32	-50.26	3.41	-4.48	-13.00	-38.32
2539.80	H	-53.98	-52.23	3.78	-5.53	-13.00	-40.98
3386.40	H	-51.04	-50.31	5.77	-6.51	-13.00	-38.04
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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11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

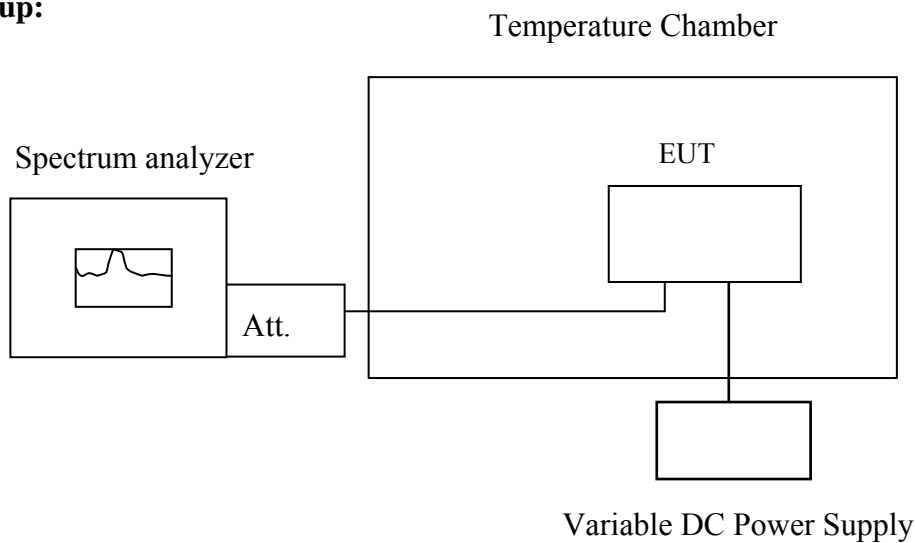
11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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11.3. 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°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5. 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)
Vdc	Temperature ()	(MHz)		
3.7	50	836599999	12	2091
3.7	40	836599987	0	2091
3.7	30	836599990	3	2091
3.7	20	836599987	0	2091
3.7	10	836599991	4	2091
3.7	0	836599999	12	2091
3.7	-10	836599995	8	2091
3.7	-20	836599985	-2	2091
3.7	-30	836599988	1	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	1879999999	7	4700
3.7	40	1879999994	2	4700
3.7	30	1879999992	0	4700
3.7	20	1879999992	0	4700
3.7	10	1879999996	4	4700
3.7	0	1879999993	1	4700
3.7	-10	1879999994	2	4700
3.7	-20	1879999985	-7	4700
3.7	-30	1879999989	-3	4700

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	1879999989	0	4700
3.7	40	1879999985	-4	4700
3.7	30	1879999977	-12	4700
3.7	20	1879999989	0	4700
3.7	10	1879999979	-10	4700
3.7	0	1879999980	-9	4700
3.7	-10	1880000018	29	4700
3.7	-20	1880000030	41	4700
3.7	-30	1880000029	40	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
3.7	50	836600012	17	2091
3.7	40	836599992	-3	2091
3.7	30	836599987	-8	2091
3.7	20	836599995	0	2091
3.7	10	836600009	14	2091
3.7	0	836599994	-1	2091
3.7	-10	836599990	-5	2091
3.7	-20	836600013	18	2091
3.7	-30	836600016	21	2091

Note: The battery is rated 3.7V dc.

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12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 20 . 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 specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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)
Vdc	Temperature ()	(MHz)		
4.2	20	836599991	4	2091
3.7	20	836599987	0	2091
3.4	20	836600008	21	2091
2.9 (End point)	20	836599989	2	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	1879999989	-3	4700
3.7	20	1879999992	0	4700
3.4	20	1879999987	-5	4700
2.8 (End point)	20	1880000003	11	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	1879999986	-3	4700
3.7	20	1879999989	0	4700
3.4	20	1879999987	-2	4700
2.7 (End point)	20	1879999988	-1	4700

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)		
4.2	20	836599991	-4	2091
3.7	20	836599995	0	2091
3.4	20	836600010	15	2091
2.8 (End point)	20	836600003	8	2091

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