

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: 3G Data Module

Brand Name: FIH Foxconn

Model No.: Momo-U

Model Difference: N/A

FCC ID: BCZ-ZVA

Report No.: EH/2012/40076

Issue Date: May. 02, 2012

FCC Rule Part: 2, 22H & 24E

Prepared for: Foxconn International Holdings,Ltd.
No.151,Sec.1,Nankan Rd., Lujhu Town-
ship,Taoyuan County 33859,Taiwan

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Foxconn International Holdings,Ltd.
No.151,Sec.1,Nankan Rd., Lujhu Township,Taoyuan County
33859,Taiwan

Product Name: 3G Data Module

Brand Name: FIH Foxconn

Model No.: Momo-U

Model Difference: N/A

FCC ID: BCZ-ZVA

File Number: EH/2012/40076

Date of test: Jan. 15, 2011 ~ Apr. 30, 2012

Date of EUT Received: Apr. 27, 2012

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 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 FCC 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:

May. 02, 2012

Jimmy Liu / Engineer

Prepared By:



Date:

May. 02, 2012

Cherry Chen / Clerk

Approved By:



Date:

May. 02, 2012

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	May. 02, 2012	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	3G Data Module
Brand Name:	FIH Foxconn
Model No.:	Momo-U
Model Difference:	N/A
Antenna Type:	Dipole Antenna

GRPS and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GPRS 850, Class 10	824.2 MHz– 848.8 MHz	31 dBm
	EDGE 850, Class 10	824.2 MHz– 848.8 MHz	27 dBm
	GPRS 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 1900, Class 10	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz – 846.6 MHz	24 dBm
Type of Emission:	GPRS 850: 246KGXW, GPRS 1900 :246KGXW EDGE 850: 246KG7W, EDGE 1900:245KG7W WCDMA Band II: 4M15F9W, HSDPA Band II: 4M16F9W HSUPA Band II: 4M14F9W WCDMA Band V: 4M14F9W, HSDPA Band V: 4M15F9W HSUPA Band V: 4M14F9W		
Hardware Version:	DVT		
Software Version:	1610.00.01.00.000		
IMEI:	013242000000029		

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.7 Vdc	490
DCS 1900	3.7 Vdc	385
EDGE 850	3.7 Vdc	310
EDGE 1900	3.7 Vdc	295
WCDMA B2	3.7 Vdc	635
HSDPA B2	3.7 Vdc	670
HSUPA B2	3.7 Vdc	670
WCDMA B5	3.7 Vdc	565
HSDPA B5	3.7 Vdc	640
HSUPA B5	3.7 Vdc	625

This test report applies for GPRS/EDGE 850/1900, WCDMA/HSDPA/HSUPA band II/V.

Note: The tests were done at two different time duration. ERP/EIRP, conducted spurious emission, radiated spurious emission with respect to 2G, and 99% bandwidth, frequency stability were undertaken earlier while the remaining test item were done later.

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

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

1.2. Test Methodology

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

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

1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

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

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Conducted Measurement at Antenna Port:

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

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is placed on a turn table which is 80 cm 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 2 of TIA/EIA 603C.

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2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	US41160416	03/17/2012	03/16/2014
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2010	07/11/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/16/2012	04/15/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013
DC Power Supply	Agilent	E3640A	MY40005907	07/15/2011	07/14/2013

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/24/2011	11/23/2013
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/17/2010	07/16/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/17/2010	07/16/2012
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/17/2014
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	12/28/2011	12/27/2012
Signal Generator	R&S	SMR40	100210	02/02/2012	02/01/2014

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Signal Generator	Agilent	E4438C	MY45093613	07/15/2011	07/14/2013
Pre-Amplifier	Agilent	8447D	1937A02834	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2012	02/27/2013
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
WIDEB. RADIO COMIN. TESTER	R & S	CMW500	101582	07/12/2010	07/11/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/04/2012	01/03/2013
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/04/2012	01/03/2013
Filter 800-1000	Micro-Tronics	EWT	M2	05/25/2011	05/24/2013
Filter 1800-2000	Micro-Tronics	EWT	M2	05/25/2011	05/24/2013
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2012	02/27/2013
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2012	02/27/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2011	07/14/2012
Horn antenna	Schwarzbeck	BBHA9120D	603	07/15/2011	07/14/2013

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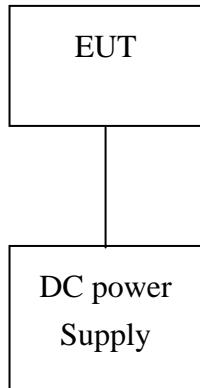
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2.5. Configuration of Tested System

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



Remote Side

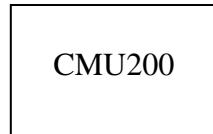


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	R&S	CMU200	102189	shielded	shielded
2.	DC Power Supply	Topward	330D	981327	shielded	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

Max ERP/EIRP measurement result:

	dBm	dB	W
GPRS 850 Band	31.95	ERP	1.567
GPRS 1900 Band	25.53	EIRP	0.357
EDGE 850 Band	29.68	ERP	0.929
EDGE 1900 Band	23.26	EIRP	0.212
WCDMA Band II	25.44	EIRP	0.350
HSDPA Band II	26.64	EIRP	0.461
HSUPA Band II	27.18	EIRP	0.522
WCDMA Band V	20.99	ERP	0.126
HSDPA Band V	22.00	ERP	0.158
HSUPA Band V	21.92	ERP	0.156

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT for GPRS/EDGE and WCDMA Band II/V. were reported.

5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB
Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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6. RF POWER OUTPUT MEASUREMENT

6.1 Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(c) Peak Power Measurement

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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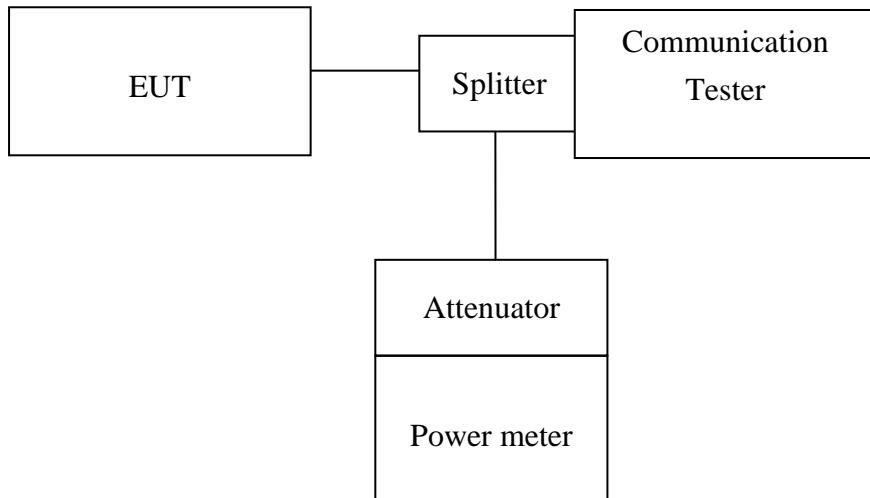
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6.2 Test Set-up:



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. The Procedure of KDB941225(SAR Measurement Procedures for 3G devices, WCDMA/HSDPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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6.5 Measurement Result:**6.5.1 RF Conducted Output Power****6.5.1.1: GPRS/EDGE****Result:**

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP)	Avg. Power (1DN 1UP)	Peak Power (1DN 2UP)	Avg. Power (1DN 2UP)
GPRS 850 (Class 10)	824.2	128	33.40	33.10	31.70	31.50
	836.6	190	33.30	33.00	31.70	31.50
	848.8	251	32.90	32.70	31.40	31.20

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP)	Avg. Power (1DN 1UP)	Peak Power (1DN 2UP)	Avg. Power (1DN 2UP)
EDGE 850 (Class 10)	824.2	128	30.60	27.40	30.10	26.80
	836.6	190	30.60	27.40	30.00	26.80
	848.8	251	30.50	27.30	29.90	26.60

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP)	Avg. Power (1DN 1UP)	Peak Power (1DN 2UP)	Avg. Power (1DN 2UP)
GPRS 1900 (Class 10)	1850.2	512	31.00	30.80	30.70	30.50
	1880.0	661	31.00	30.80	30.70	30.50
	1909.8	810	30.90	30.70	30.50	30.30

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP)	Avg. Power (1DN 1UP)	Peak Power (1DN 2UP)	Avg. Power (1DN 2UP)
EDGE 1900 (Class 10)	1850.2	512	29.20	25.90	28.80	25.50
	1880.0	661	29.00	25.70	28.80	25.50
	1909.8	810	29.00	25.70	28.70	25.40

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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/-3). RMC 12.2kps is used for this testing.

Results:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band II	1852.40	9262	26.34	23.72
	1880.00	9400	26.45	23.73
	1907.60	9538	26.35	23.43

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
WCDMA Band V	826.40	4132	27.45	24.16
	836.60	4183	27.47	24.29
	846.60	4233	27.46	24.24

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSDPA Band II	1852.40	9262	26.73	23.55
	1880.00	9400	26.78	23.69
	1907.60	9538	26.85	23.47

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSDPA Band V	826.40	4132	27.53	23.82
	836.60	4183	27.45	23.91
	846.60	4233	27.65	23.98

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSUPA Band II	1852.40	9262	26.82	23.54
	1880.00	9400	26.79	23.67
	1907.60	9538	26.83	23.47

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg Power (dBm)
HSUPA Band V	826.40	4132	27.45	23.78
	836.60	4183	27.48	23.91
	846.60	4233	27.59	23.95

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

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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 power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSDPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (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.

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita-tion (dBm)	Comments
		Channel	9262	9400	9538	
HSDPA B2	1	23.89	23.62	23.29	20.3dBm – 25.7dBm	Pass
	2	23.60	23.59	23.28	20.3dBm – 25.7dBm	Pass
	3	23.41	23.17	22.76	19.8dBm – 25.7dBm	Pass
	4	23.48	23.18	22.88	19.8dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita-tion (dBm)	Comments
		Channel	4132	4172	4233	
HSDPA B5	1	23.95	24.15	24.36	20.3dBm – 25.7dBm	Pass
	2	24.09	24.18	24.11	20.3dBm – 25.7dBm	Pass
	3	23.49	23.67	23.87	19.8dBm – 25.7dBm	Pass
	4	23.54	23.71	23.93	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 power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

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

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

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

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel	9262	9400	9538	
HSUPA B2	1	23.64	23.71	23.37	17.3dBm – 25.7dBm	Pass
	2	21.69	21.78	21.41	16.8dBm – 25.7dBm	Pass
	3	22.70	22.73	22.45	17.8dBm – 25.7dBm	Pass
	4	21.82	21.83	21.45	16.8dBm – 25.7dBm	Pass
	5	23.53	23.57	23.28	17.3dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limitation (dBm)	Comments
		Channel	4132	4172	4233	
HSUPA B5	1	24.12	24.22	24.16	17.3dBm – 25.7dBm	Pass
	2	22.18	22.30	22.20	16.8dBm – 25.7dBm	Pass
	3	23.16	23.28	23.24	17.8dBm – 25.7dBm	Pass
	4	22.23	22.36	22.28	16.8dBm – 25.7dBm	Pass
	5	23.98	24.05	24.05	17.3dBm – 25.7dBm	Pass

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6.5.2 Maximum Power Reduction: PCS1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.2	27.1	24.9	23	21	19	16.9	15.2	13.2
PCL	9	10	11	12	13	14	15		
Output power (dBm)	11.1	9.3	7.4	5.3	3.4	1.3	-0.2		

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

WCDMA/HSDPA/HSUPA band II / 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 19 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

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7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

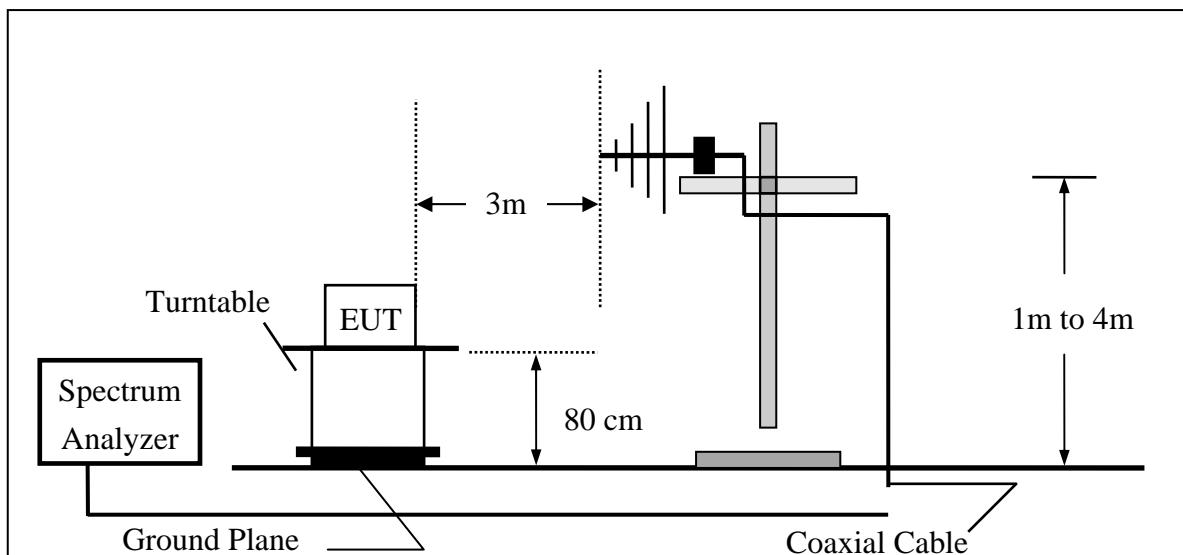
According to FCC §2.1046

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

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

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

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



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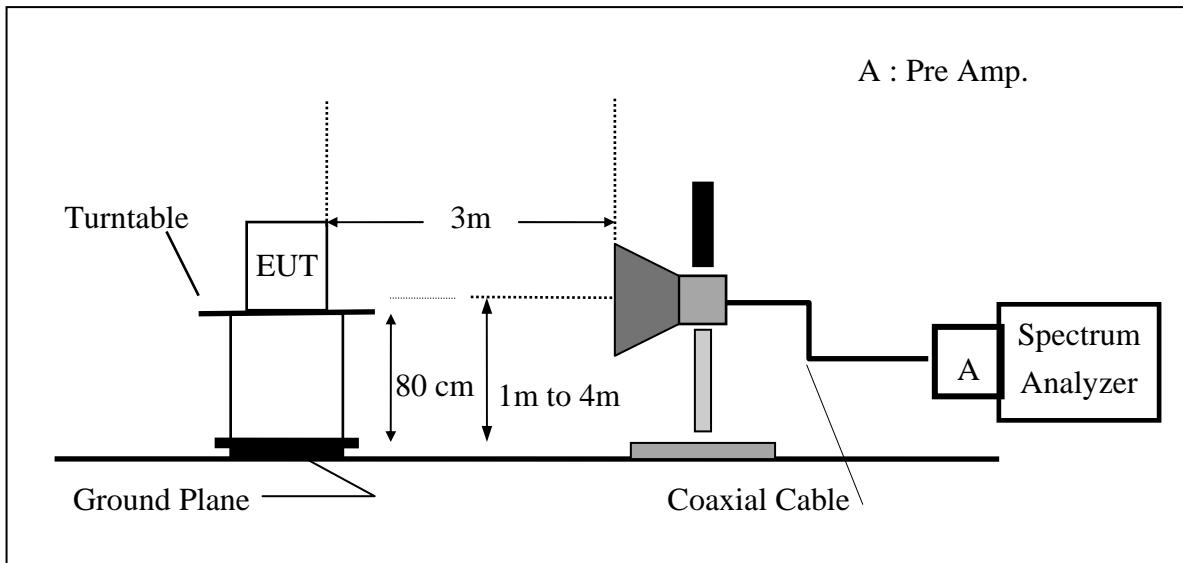
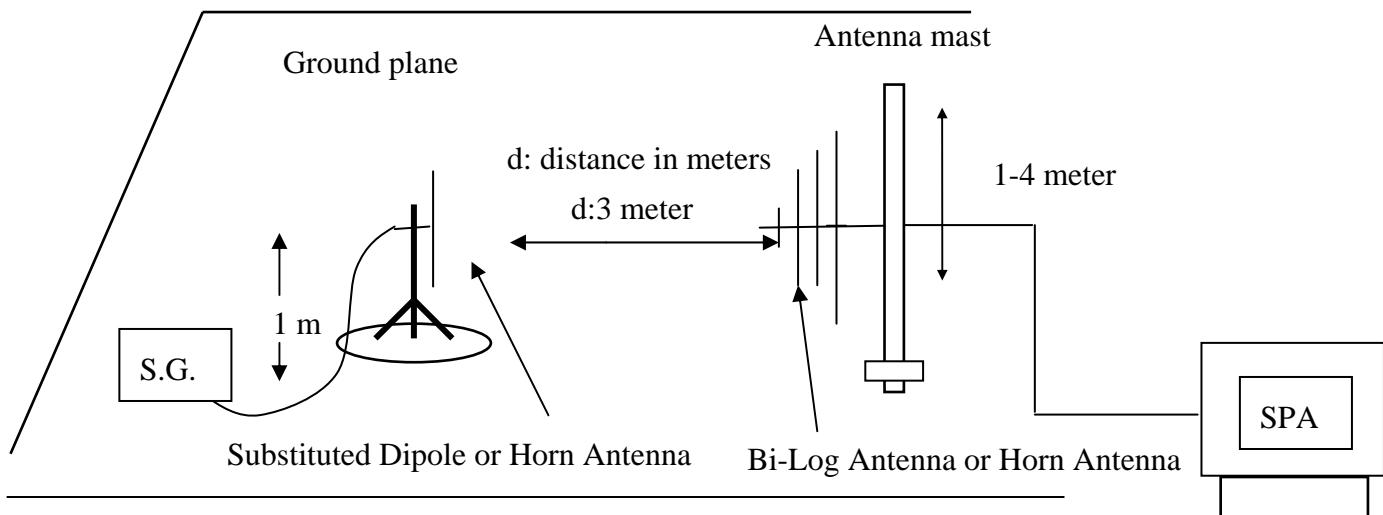
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz

(C) Substituted Method Test Set-UP


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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:

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GPRS 850	824.20	128	E2	V	119.41	33.02	-7.87	3.62	21.52	38.40
				H	129.72	43.45	-7.87	3.62	31.95	38.40
	836.60	190	E2	V	119.94	33.69	-7.88	3.65	22.16	38.40
				H	129.32	43.09	-7.88	3.65	31.56	38.40
	848.80	251	E2	V	119.94	33.82	-7.88	3.68	22.26	38.40
				H	129.30	43.11	-7.88	3.68	31.55	38.40

Remark :

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	E2	V	117.05	12.66	9.90	5.56	17.00	33.00
				H	125.18	21.00	9.90	5.56	25.34	33.00
	1880.00	661	E2	V	118.12	13.76	9.99	5.61	18.14	33.00
				H	124.98	20.84	9.99	5.61	25.21	33.00
	1909.80	810	E2	V	118.50	14.17	10.08	5.66	18.59	33.00
				H	125.22	21.11	10.08	5.66	25.53	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	E2	V	116.77	30.38	-7.87	3.62	18.88	38.40
				H	127.45	41.18	-7.87	3.62	29.68	38.40
	836.60	190	E2	V	115.62	29.37	-7.88	3.65	17.84	38.40
				H	127.08	40.85	-7.88	3.65	29.32	38.40
	848.80	251	E2	V	116.02	29.90	-7.88	3.68	18.34	38.40
				H	126.94	40.75	-7.88	3.68	29.19	38.40

Remark :

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	E2	V	116.23	11.84	9.90	5.56	16.18	33.00
				H	123.10	18.92	9.90	5.56	23.26	33.00
	1880.00	661	E2	V	114.80	10.44	9.99	5.61	14.82	33.00
				H	121.86	17.72	9.99	5.61	22.09	33.00
	1909.80	810	E2	V	115.81	11.48	10.08	5.66	15.90	33.00
				H	122.56	18.45	10.08	5.66	22.87	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW=300 KHz, VBW=1MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B2	E2	1852.4	9262	V	24.83	4.17	-5.49	23.51	33.00
				H	26.42	4.51	-5.49	25.44	33.00
		1880.0	9400	V	24.74	4.13	-5.56	23.31	33.00
				H	23.05	4.44	-5.56	21.93	33.00
		1907.6	9538	V	24.09	4.10	-5.62	22.56	33.00
				H	25.40	4.37	-5.62	24.14	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B2	E2	1852.4	9262	V	25.94	4.17	-5.49	24.62	33.00
				H	27.38	4.51	-5.49	26.40	33.00
		1880.0	9400	V	25.76	4.13	-5.56	24.33	33.00
				H	27.77	4.44	-5.56	26.64	33.00
		1907.6	9538	V	24.45	4.10	-5.62	22.92	33.00
				H	26.90	4.37	-5.62	25.65	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B2	E2	1852.4	9262	V	25.28	4.17	-5.49	23.97	33.00
				H	27.49	4.51	-5.49	26.51	33.00
		1880.0	9400	V	24.39	4.13	-5.56	22.96	33.00
				H	28.30	4.44	-5.56	27.18	33.00
		1907.6	9538	V	25.01	4.10	-5.62	23.49	33.00
				H	26.54	4.37	-5.62	25.29	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	E2	826.4	4132	V	13.73	3.97	-4.22	13.47	38.45
				H	20.35	3.97	-4.22	20.10	38.45
		836.6	4183	V	14.01	3.99	-4.24	13.77	38.45
				H	21.23	4.00	-4.24	20.99	38.45
		846.6	4233	V	13.26	4.02	-4.24	13.04	38.45
				H	20.38	4.02	-4.24	20.16	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	E2	826.4	4132	V	14.84	3.97	-4.22	14.59	38.45
				H	21.45	3.97	-4.22	21.20	38.45
		836.6	4183	V	14.99	3.99	-4.24	14.75	38.45
				H	22.24	3.99	-4.24	22.00	38.45
		846.6	4233	V	14.81	4.02	-4.24	14.59	38.45
				H	21.67	4.02	-4.24	21.45	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

EUT				Measurement					
Operation Band	Pol.	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
		MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	E2	826.4	4132	V	14.38	3.97	-4.22	14.12	38.45
				H	21.59	3.97	-4.22	21.33	38.45
		836.6	4183	V	15.18	4.00	-4.24	14.94	38.45
				H	22.16	3.99	-4.24	21.92	38.45
		846.6	4233	V	14.91	4.02	-4.24	14.69	38.45
				H	21.63	4.02	-4.24	21.42	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

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8. 99% OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049.

8.2. Test Set-up:

Refer to section 5.2 in this report

8.3. Measurement Procedure:

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.2460
	836.60	190	0.2453
	848.80	251	0.2448

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.2452
	1880.00	661	0.2435
	1909.80	810	0.2455

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2449
	836.60	190	0.2426
	848.80	251	0.2459

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2447
	1880.00	661	0.2422
	1909.80	810	0.2429

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.4	9262	4.1336
	1880.0	9400	4.1494
	1907.6	9538	4.1316

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.4	9296	4.1631
	1880.0	9400	4.1381
	1907.6	9538	4.1611

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA II	1852.4	9296	4.1381
	1880.0	9400	4.1388
	1907.6	9538	4.1361

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1315
	836.60	4183	4.1363
	846.60	4233	4.1380

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1251
	836.60	4183	4.1513
	846.60	4233	4.1331

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1225
	836.60	4183	4.1385
	846.60	4233	4.1323

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Figure 8-1: GPRS 850 Channel Low

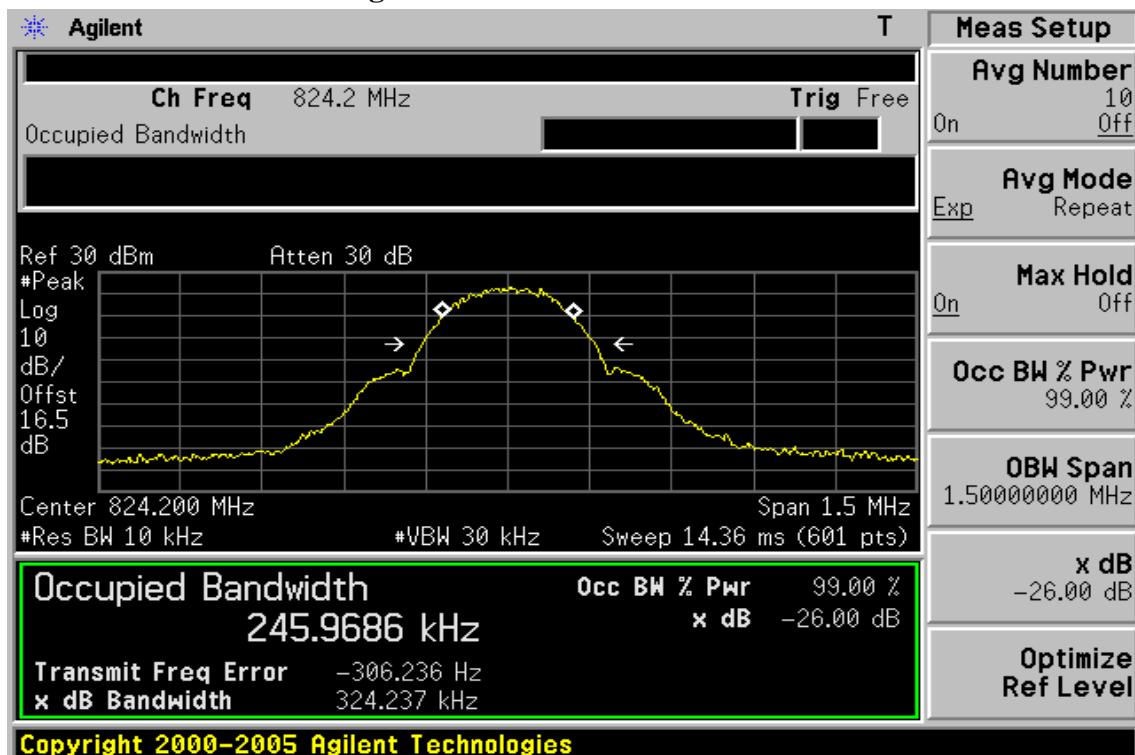
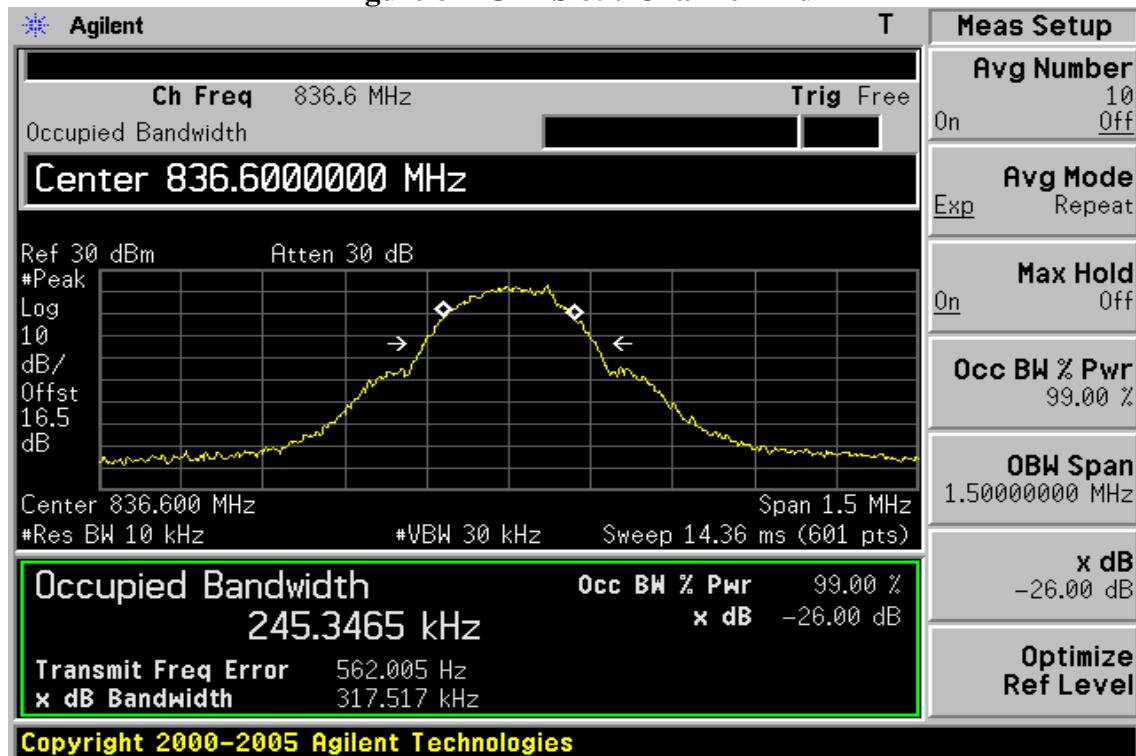


Figure 8-2 GPRS 850 Channel Mid



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GPRS Figure 8-3: GPRS 850 Channel High

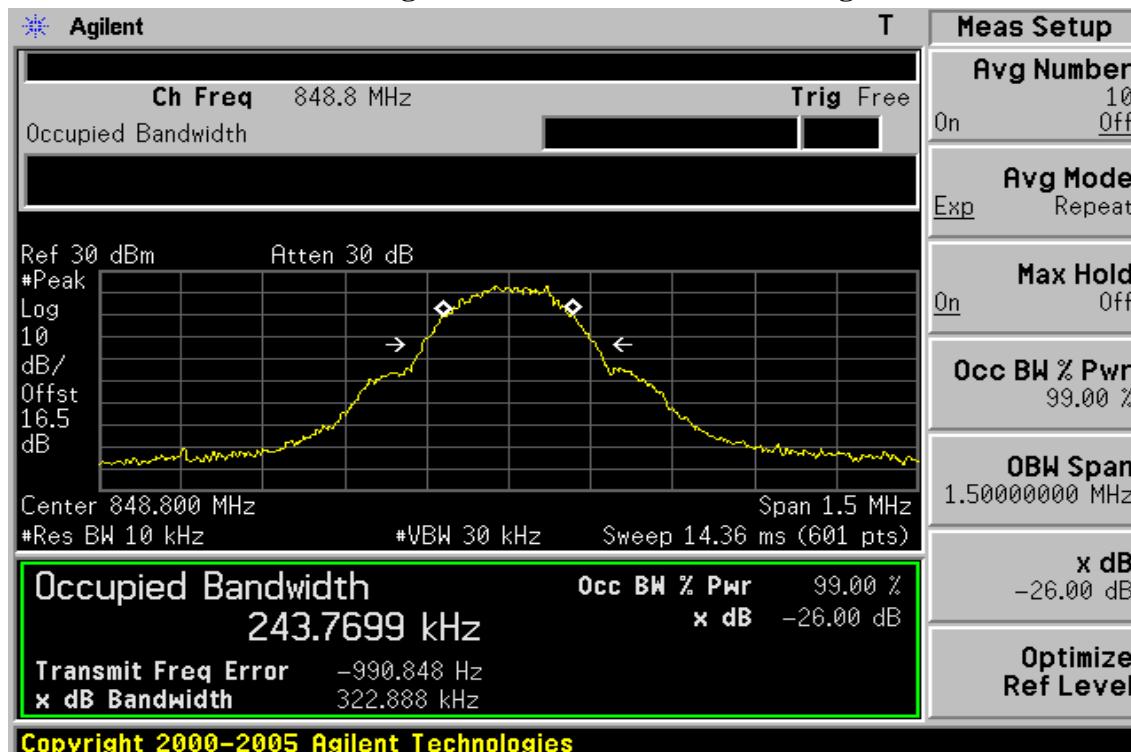
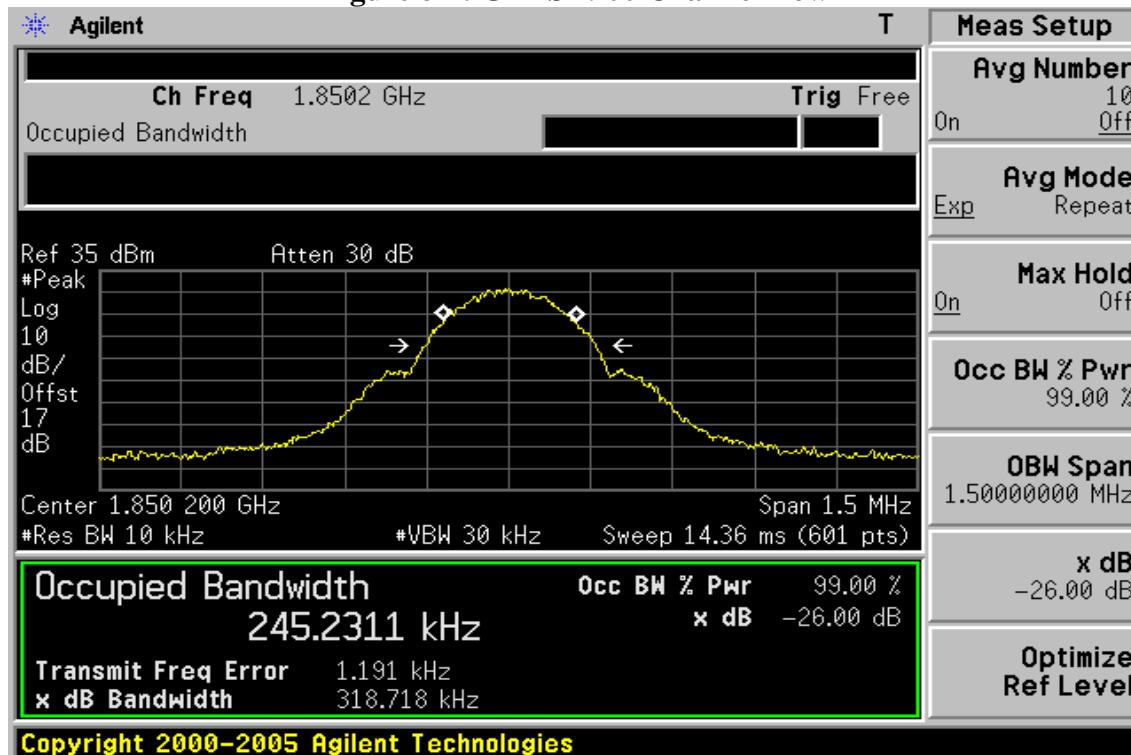


Figure 8-4: GPRS 1900 Channel Low



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Figure 8-5 GPRS 1900 Channel Mid

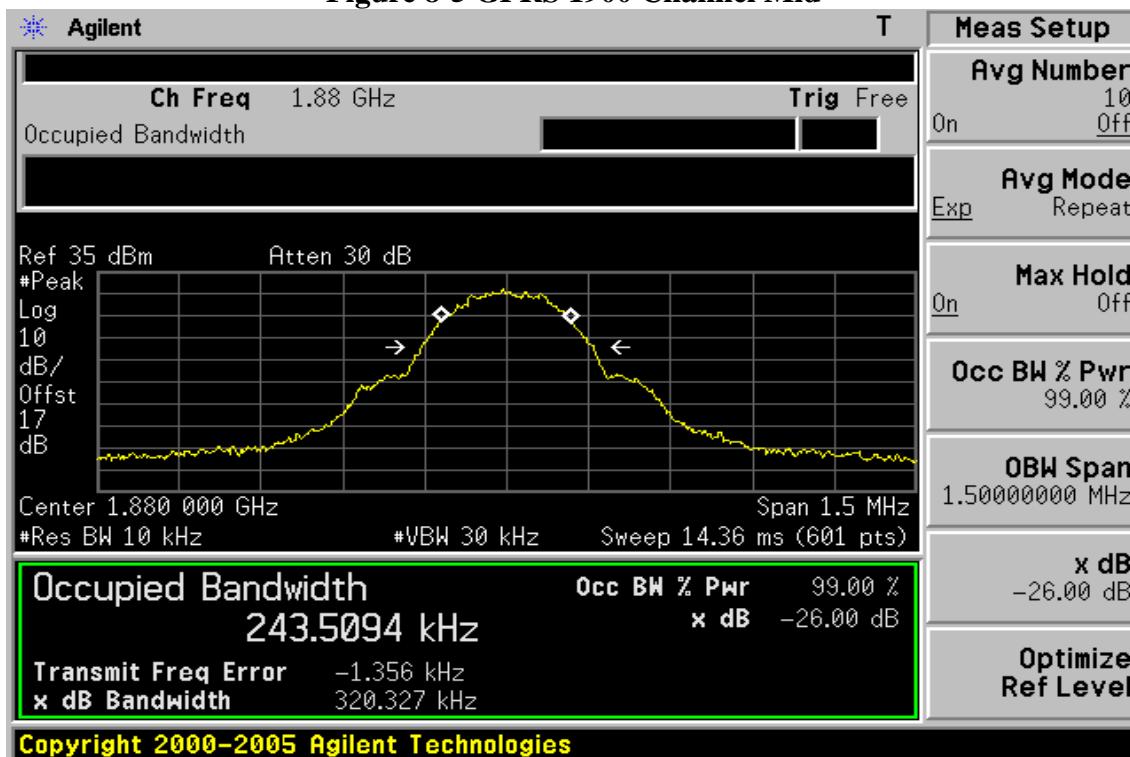
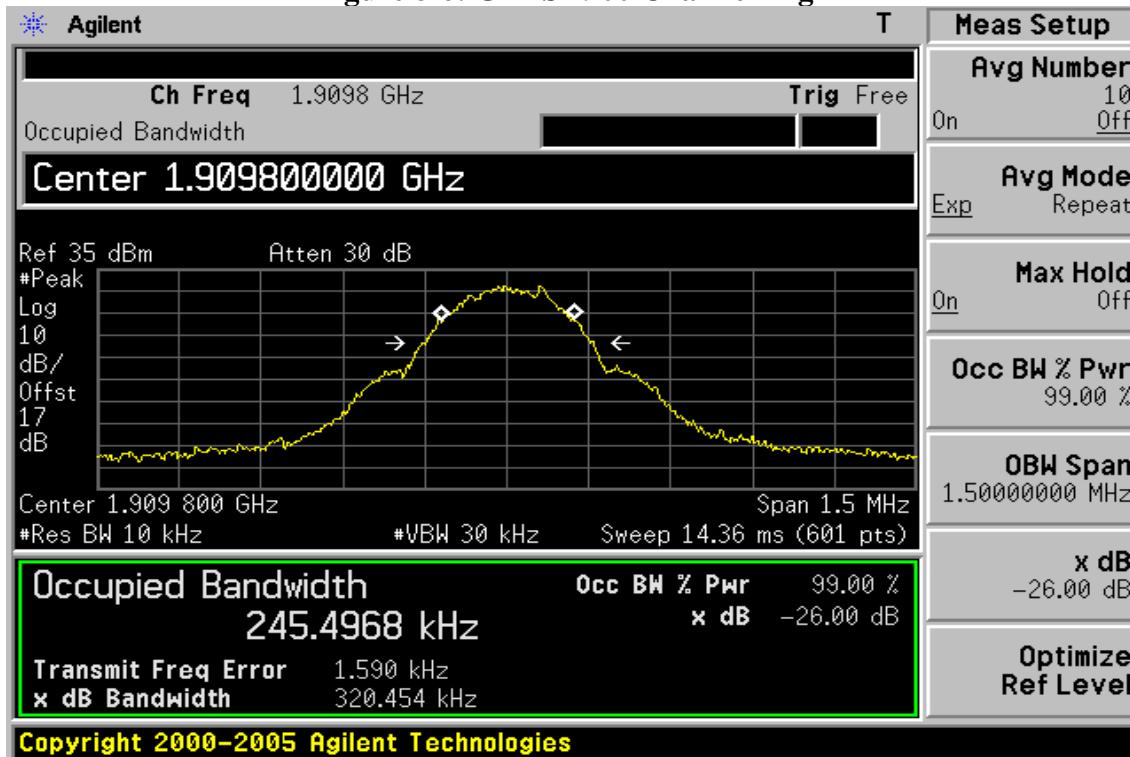


Figure 8-6: GPRS 1900 Channel High



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Figure 8-7: EDGE 850 Channel Low

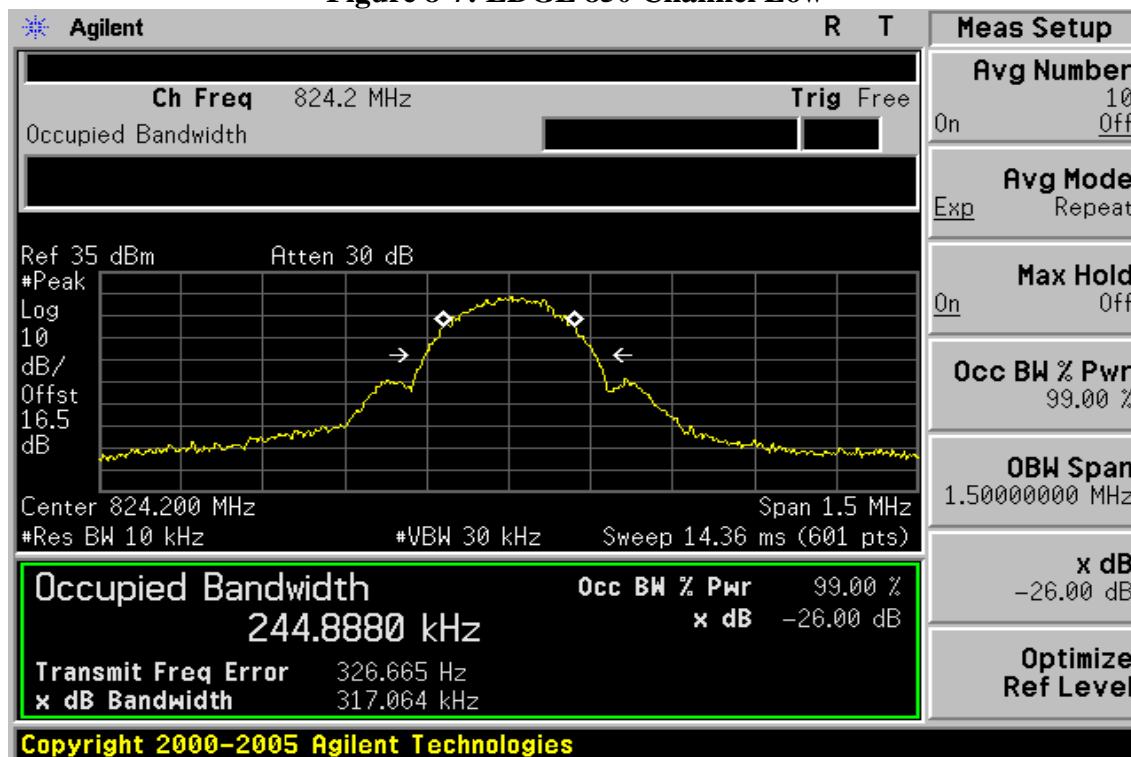
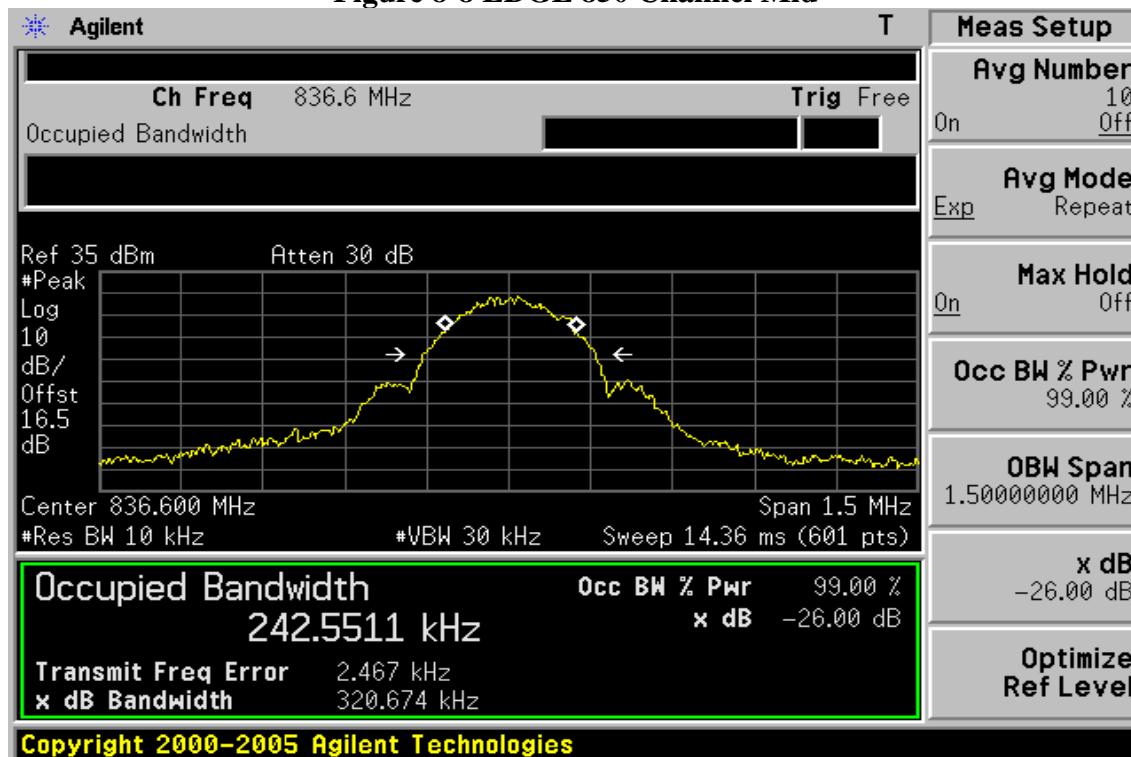


Figure 8-8 EDGE 850 Channel Mid



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Figure 8-9 EDGE 850 Channel High

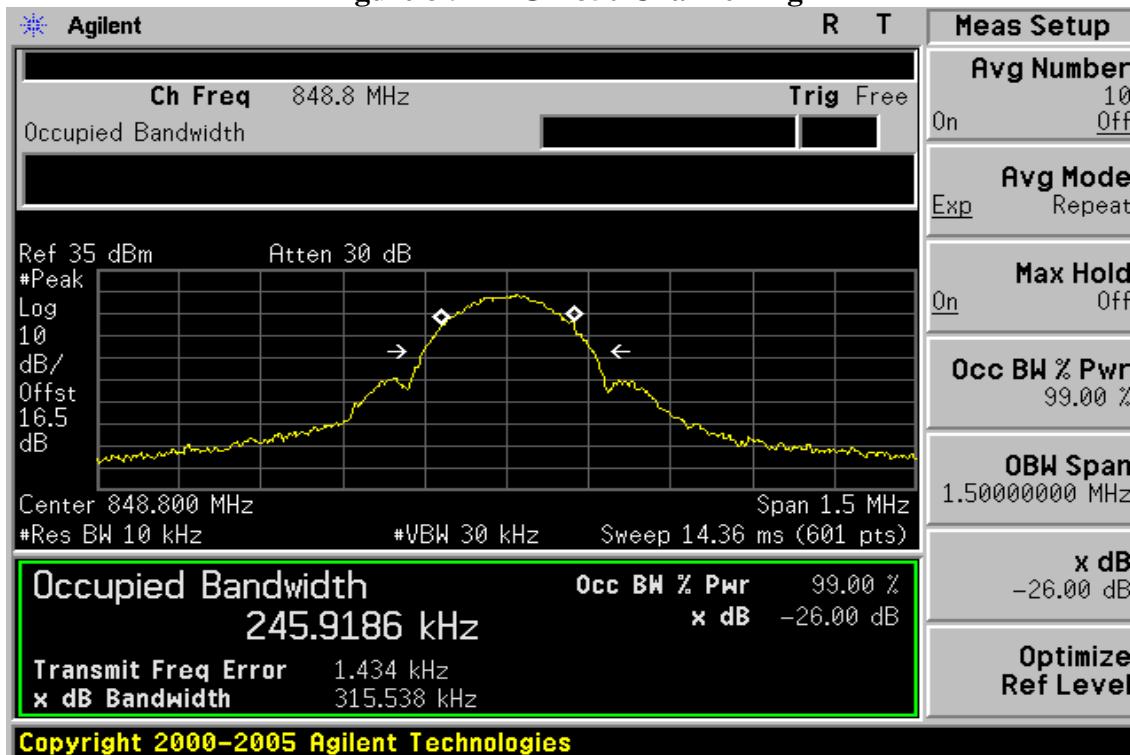
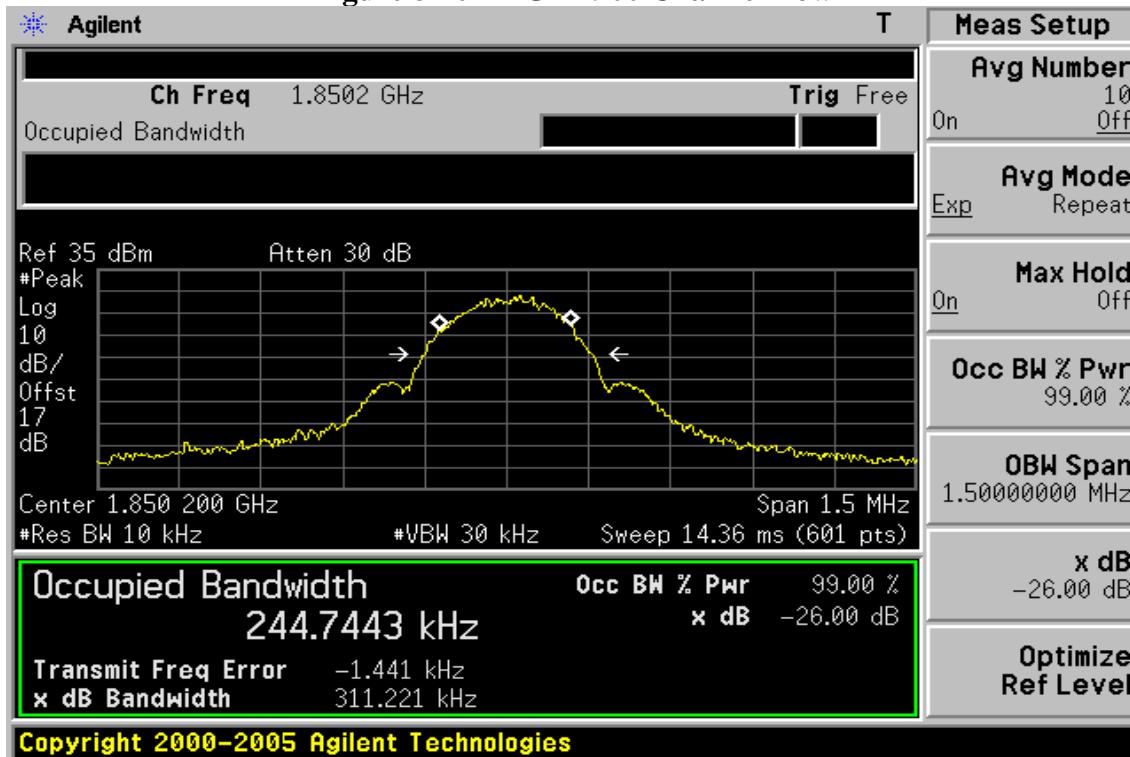


Figure 8-10 EDGE 1900 Channel Low



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Figure 8-11 EDGE 1900 Channel Mid

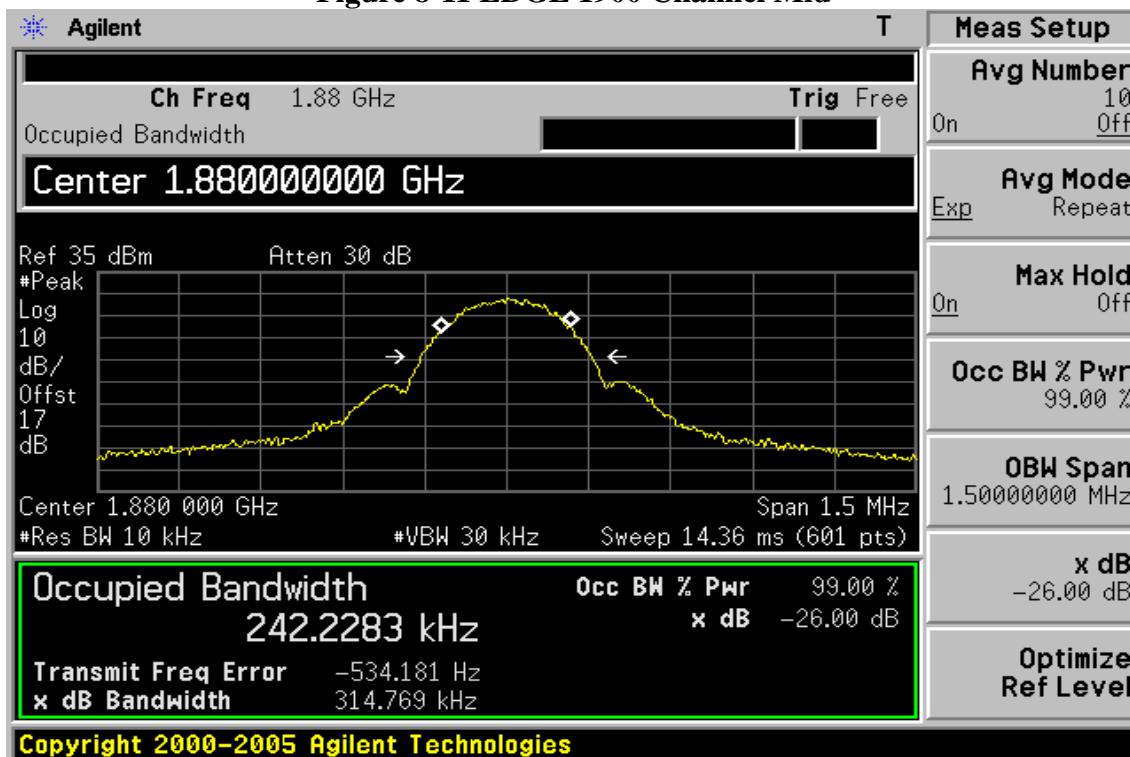
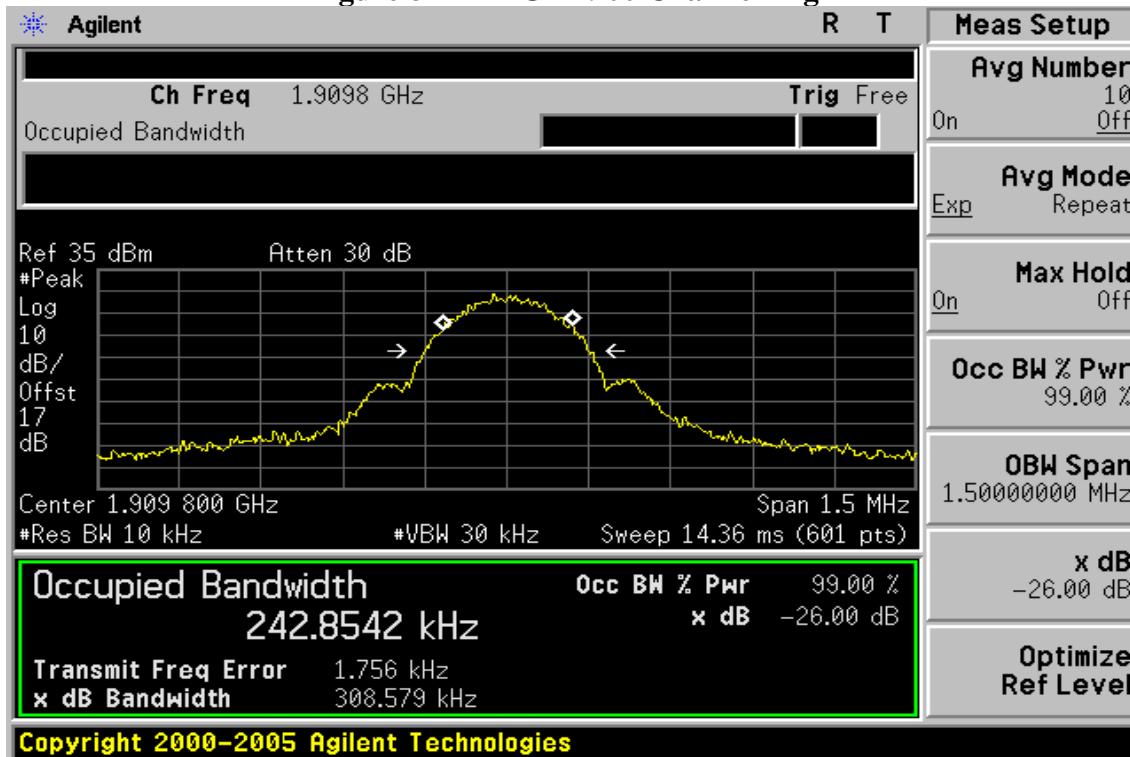


Figure 8-12 EDGE 1900 Channel High



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Figure 8-13 WCDMA II Channel Low

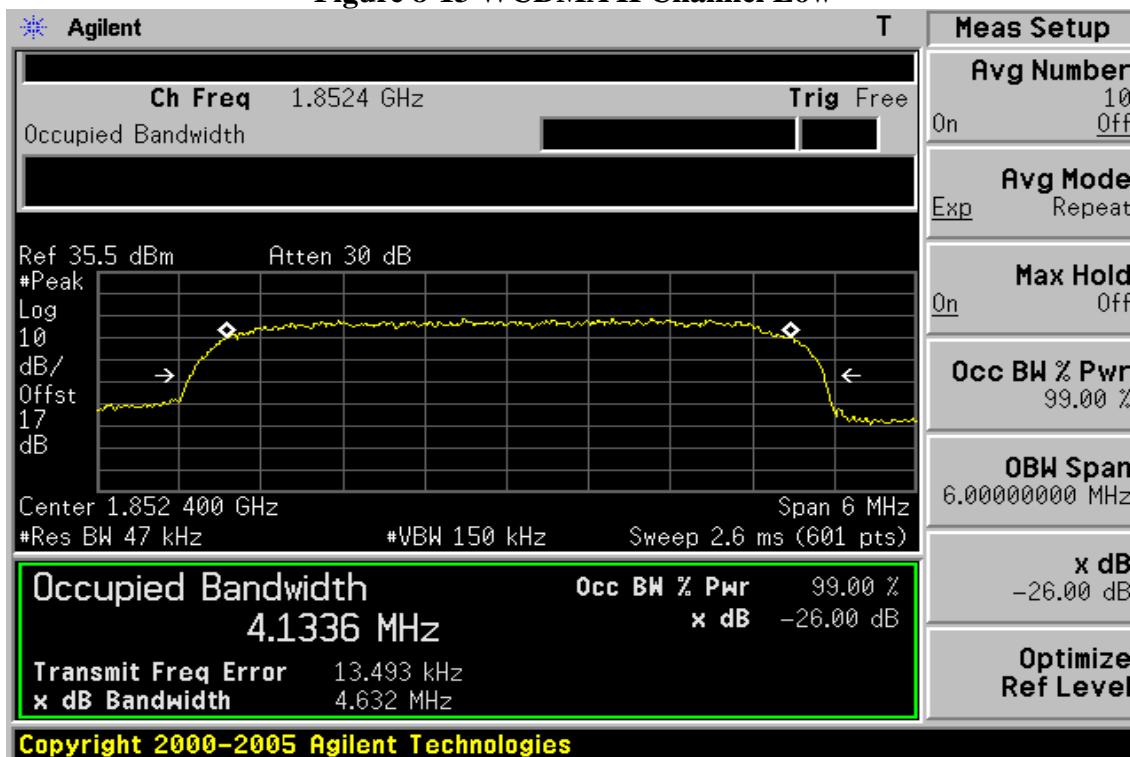
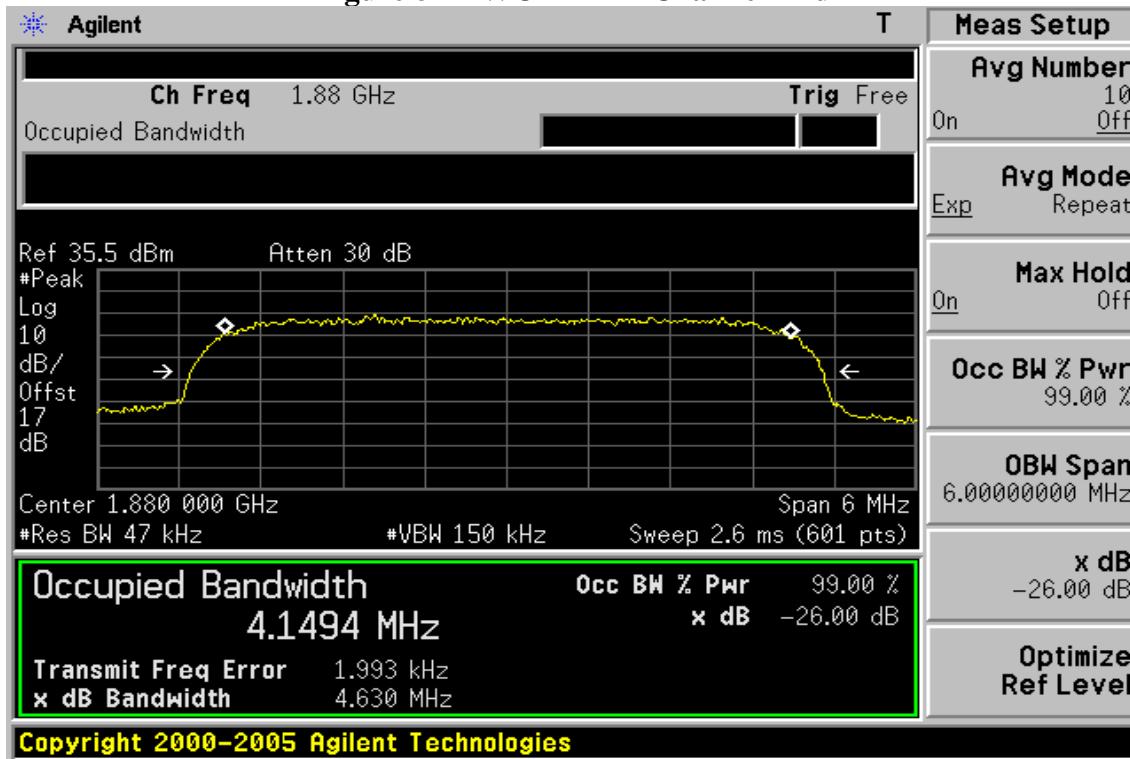


Figure 8-14 WCDMA II Channel Mid



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Figure 8-15 WCDMA II Channel High

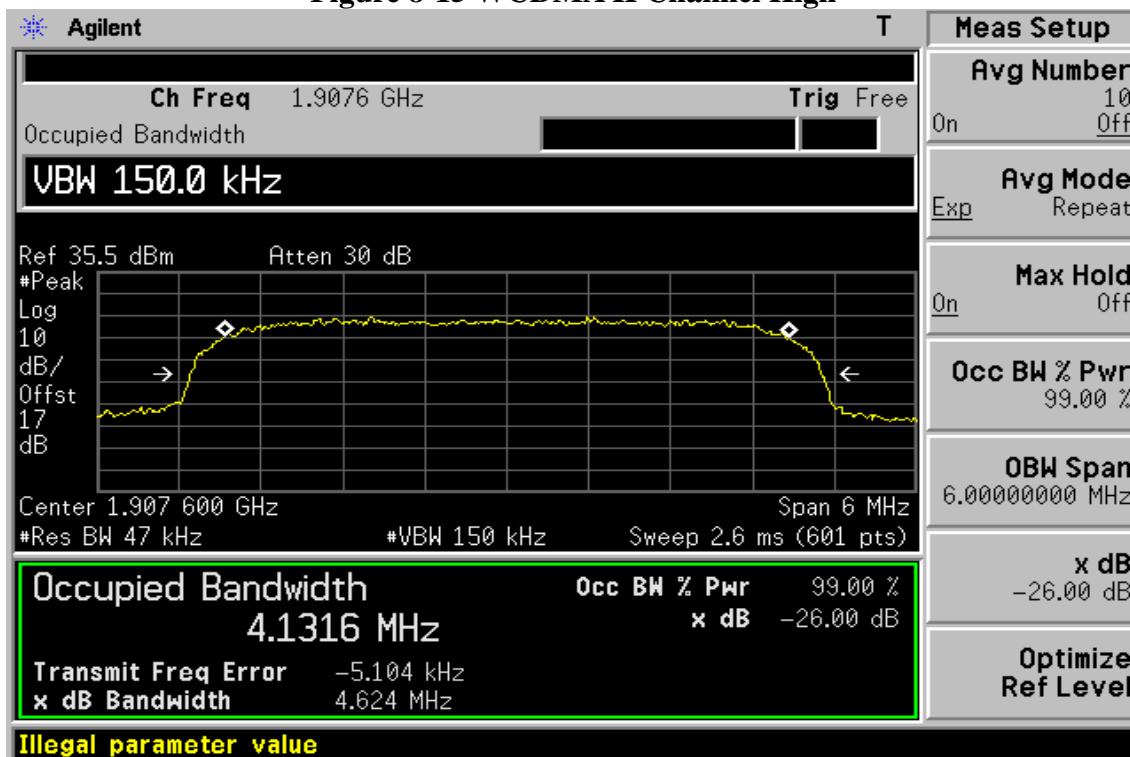
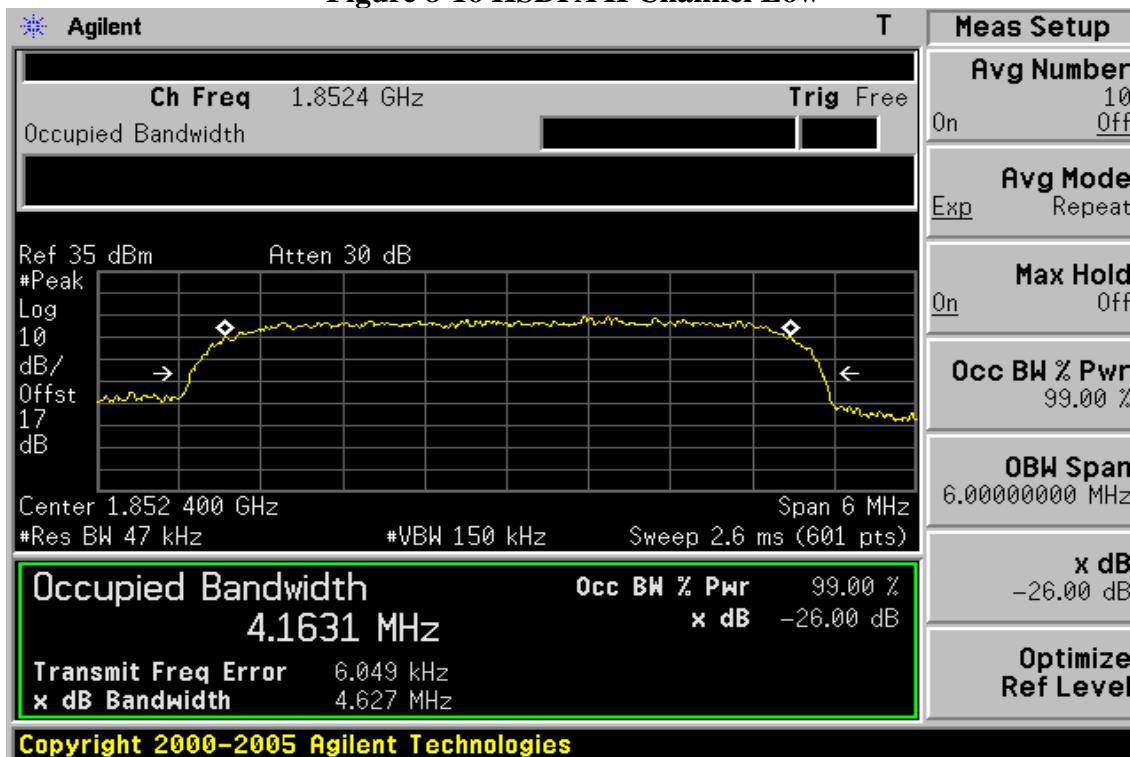


Figure 8-16 HSDPA II Channel Low



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Figure 8-17 HSDPA II Channel Mid

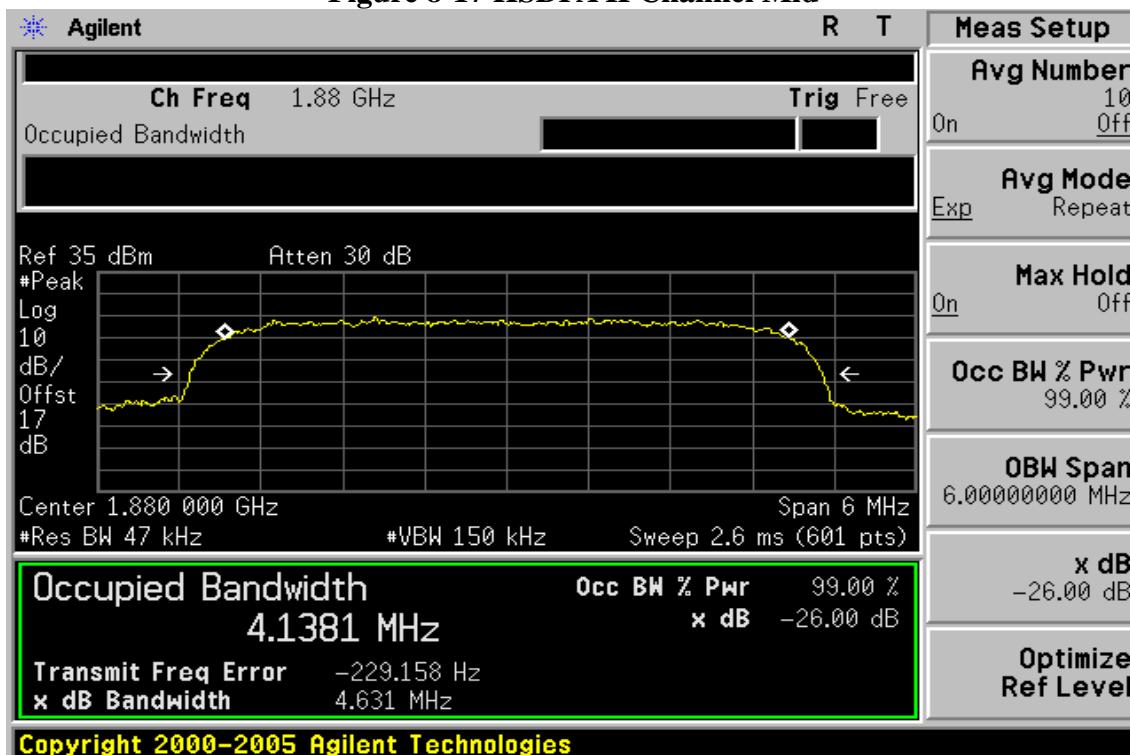
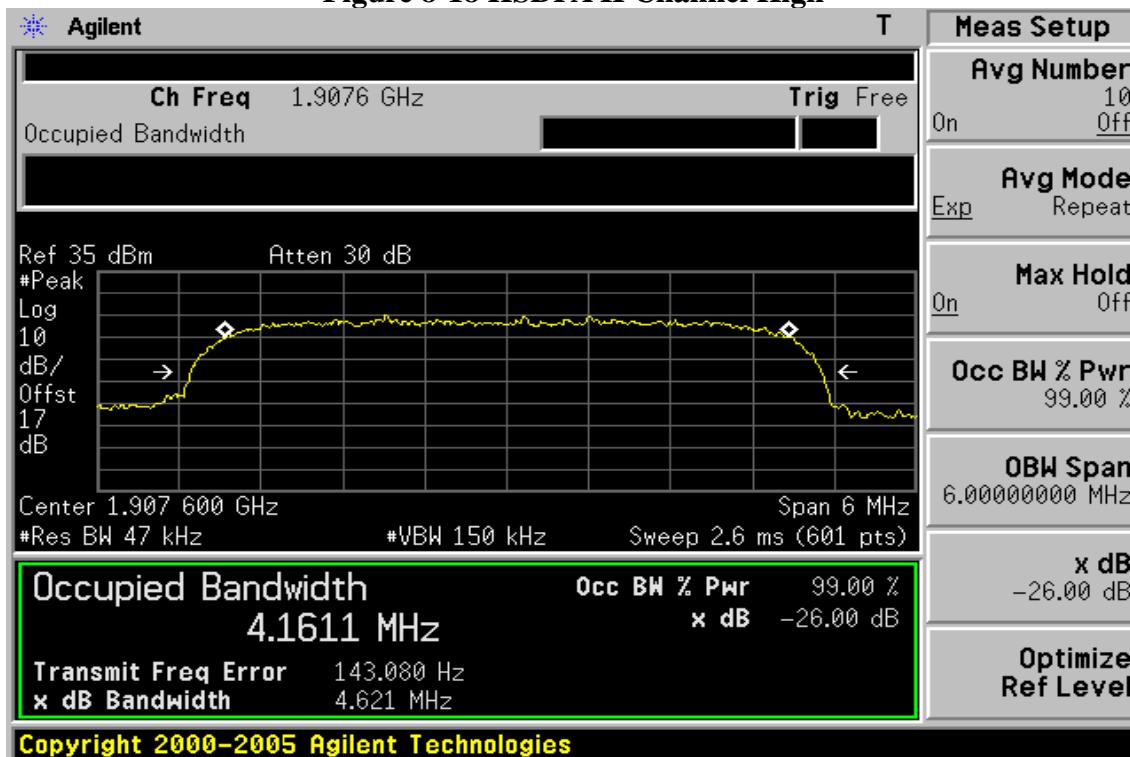


Figure 8-18 HSDPA II Channel High



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Figure 8-19 HSUPA II Channel Low

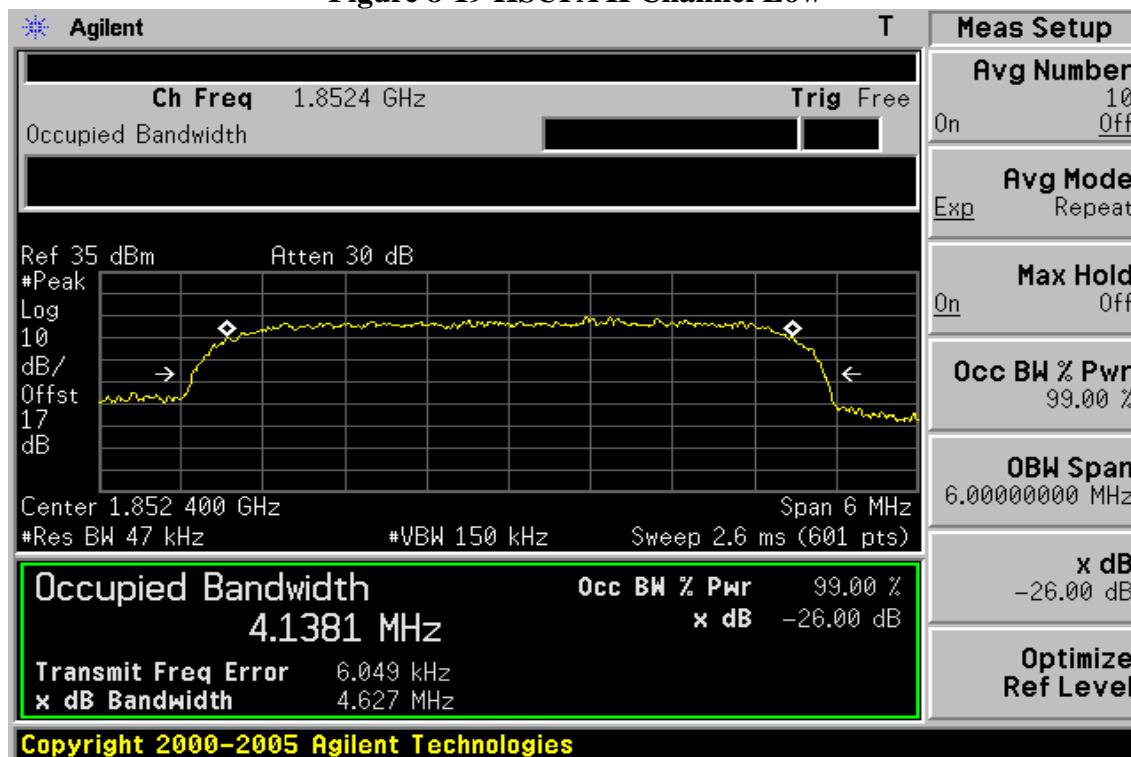
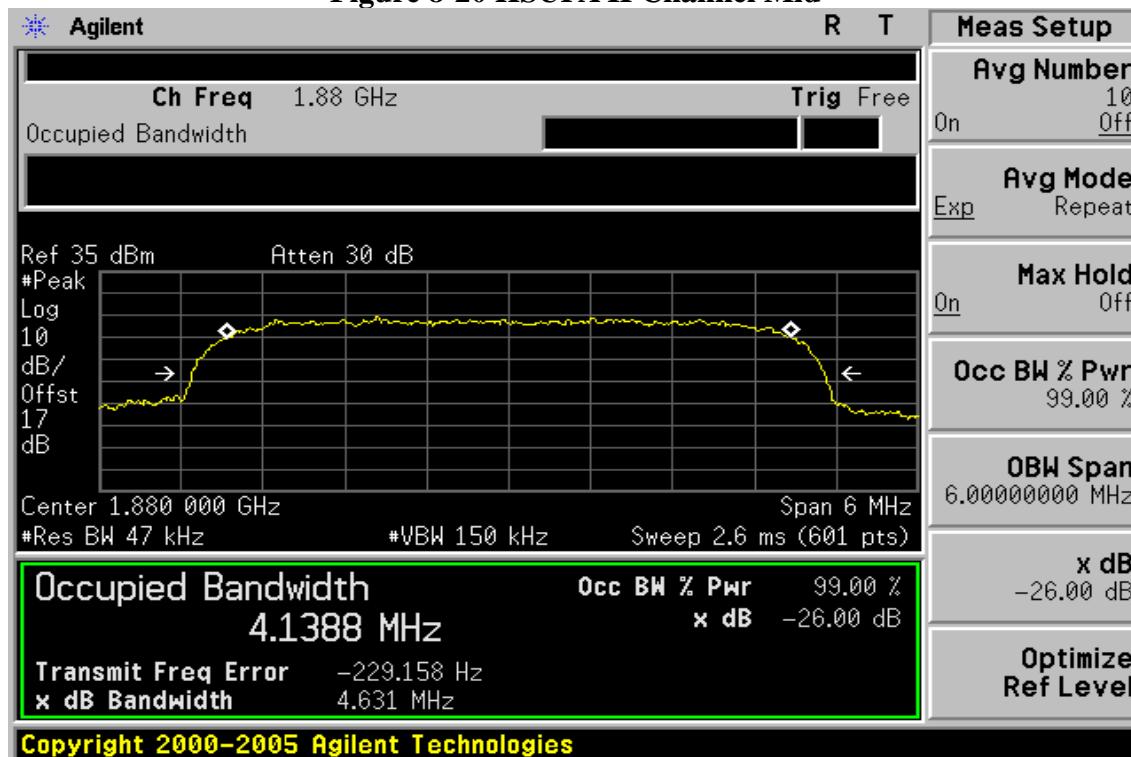


Figure 8-20 HSUPA II Channel Mid



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Figure 8-21 HSUPA II Channel High

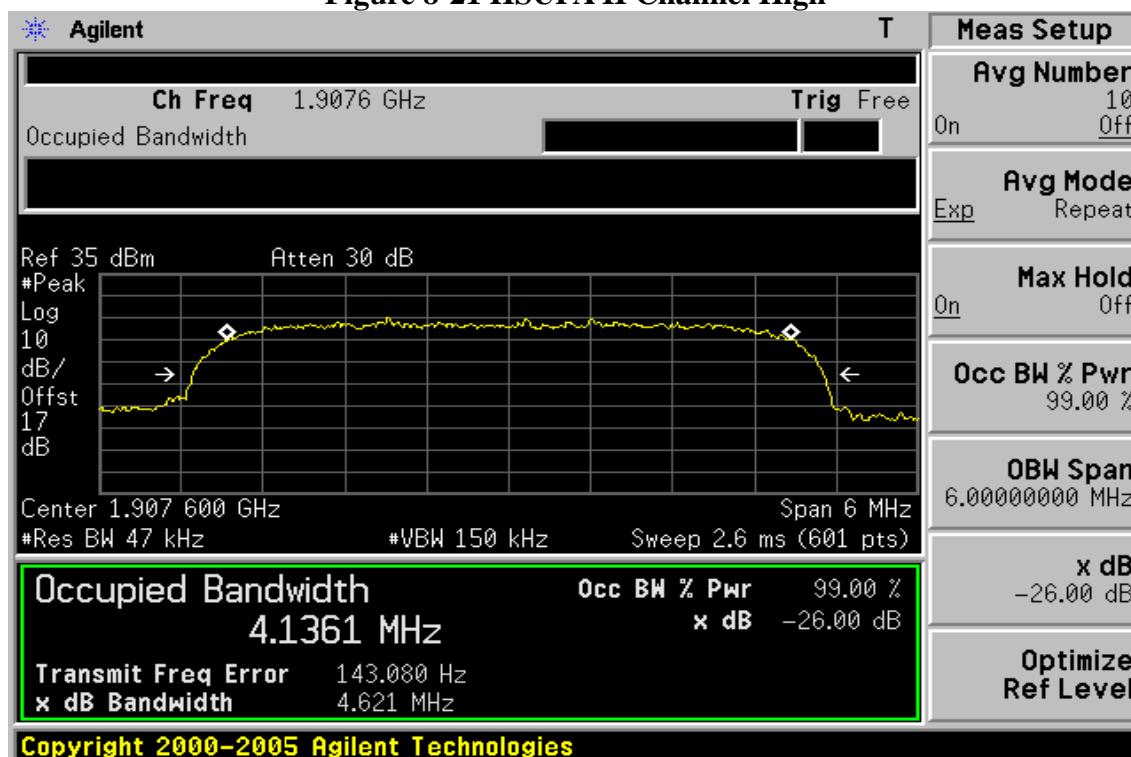
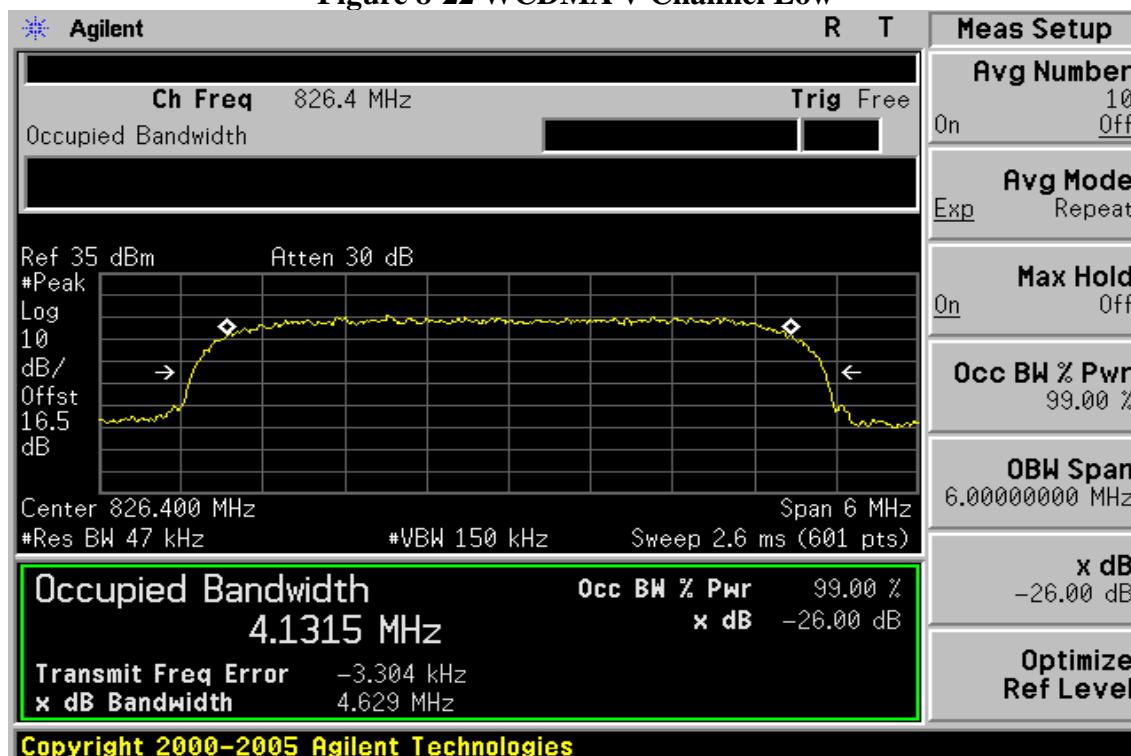


Figure 8-22 WCDMA V Channel Low



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Figure 8-23 WCDMA V Channel Mid

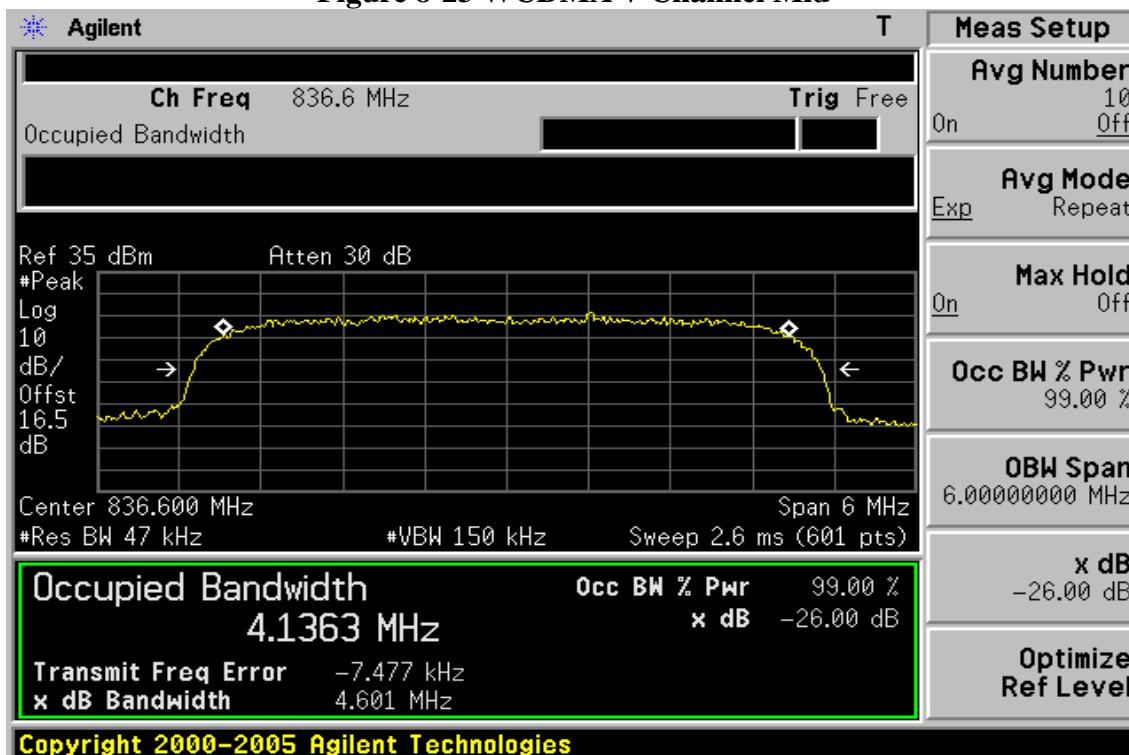
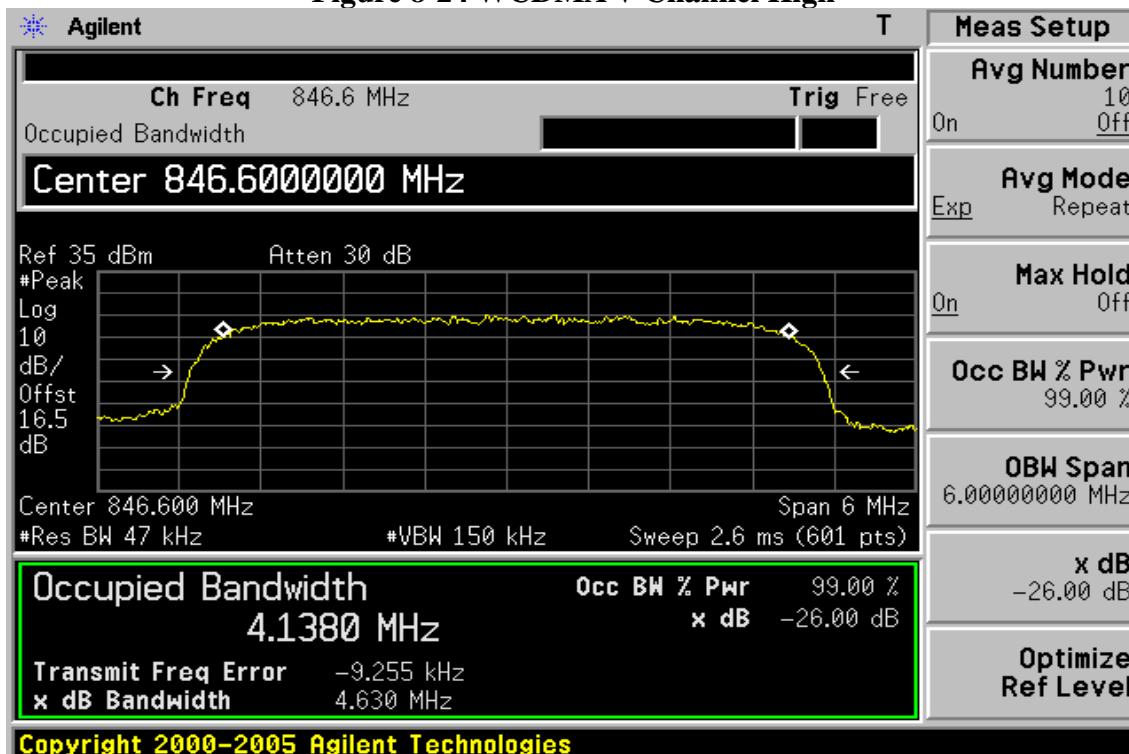


Figure 8-24 WCDMA V Channel High



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Figure 8-25 HSDPA V Channel Low

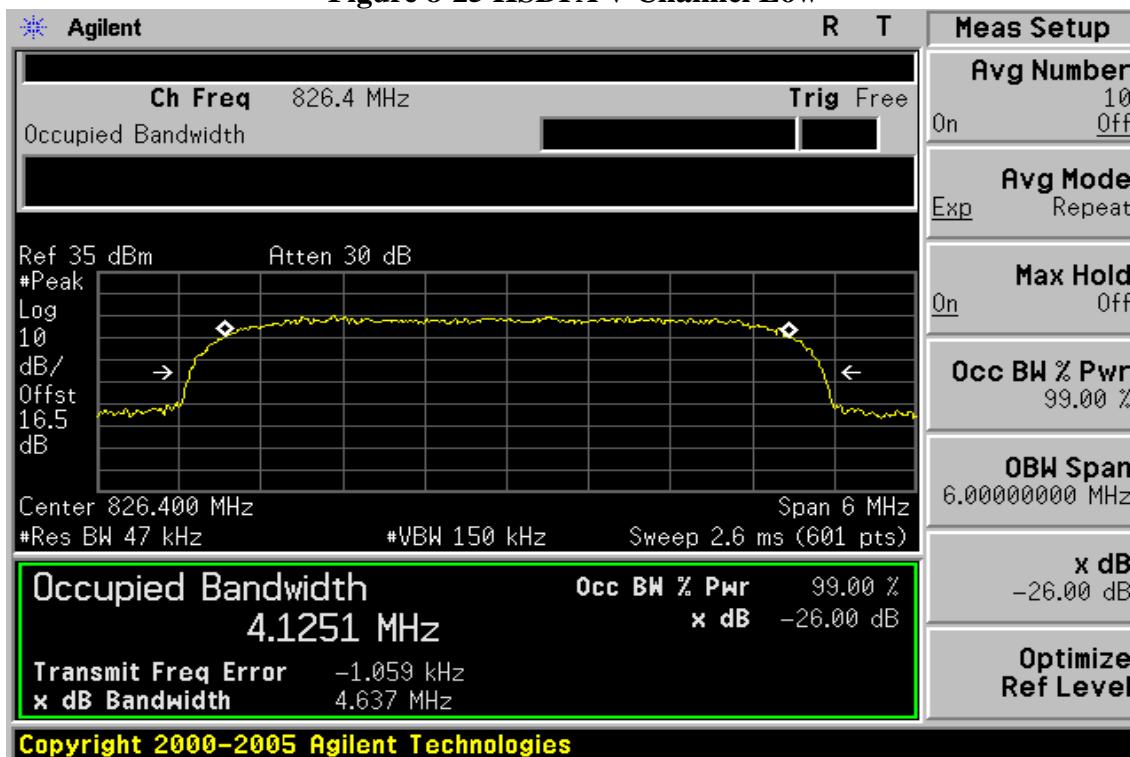
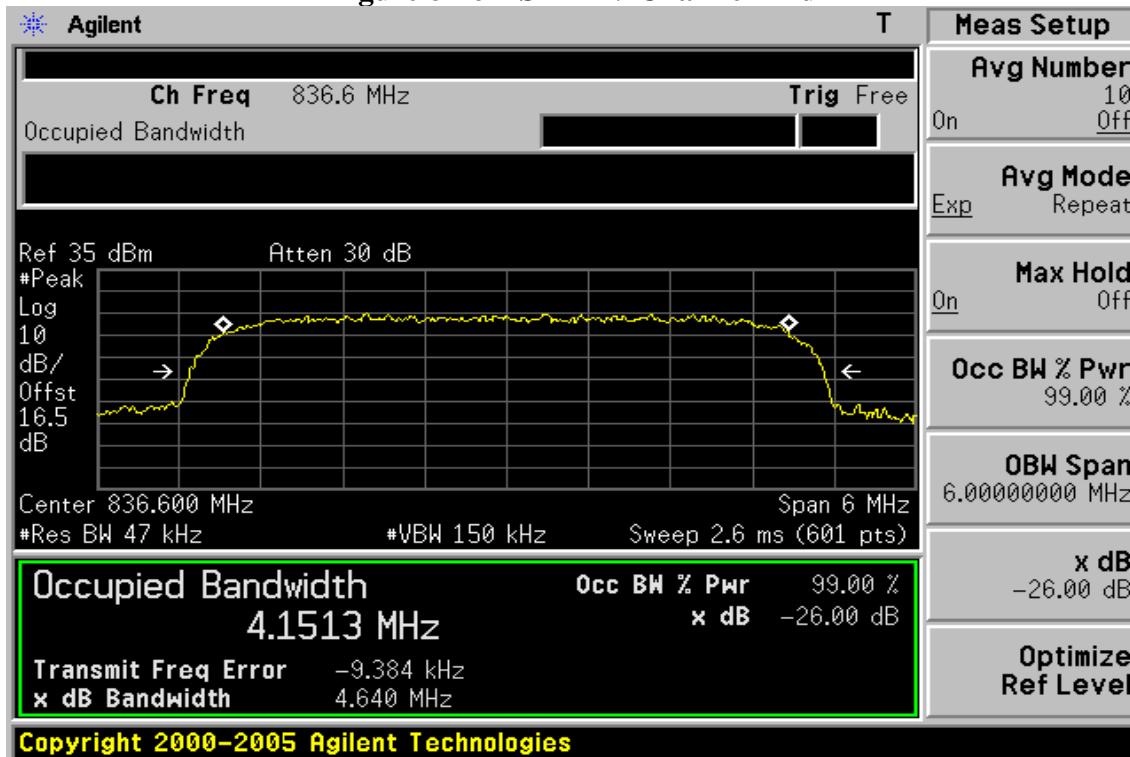


Figure 8-26 HSDPA V Channel Mid



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Figure 8-27 HSDPA V Channel High

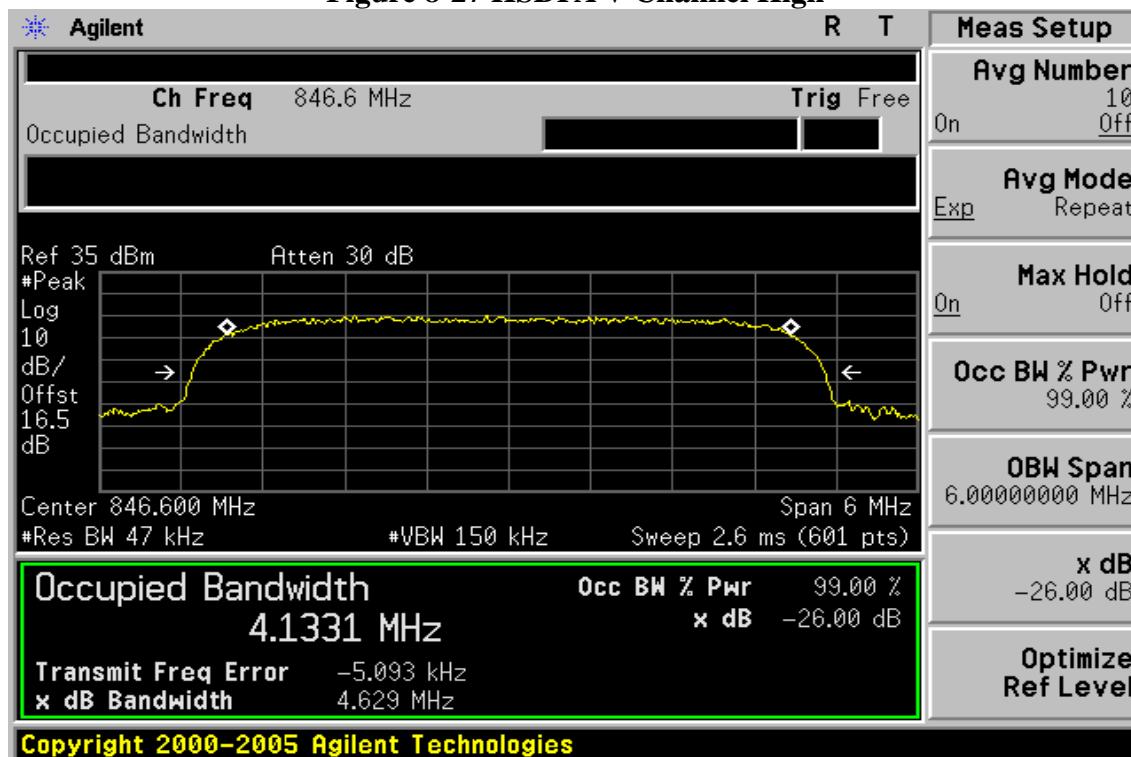
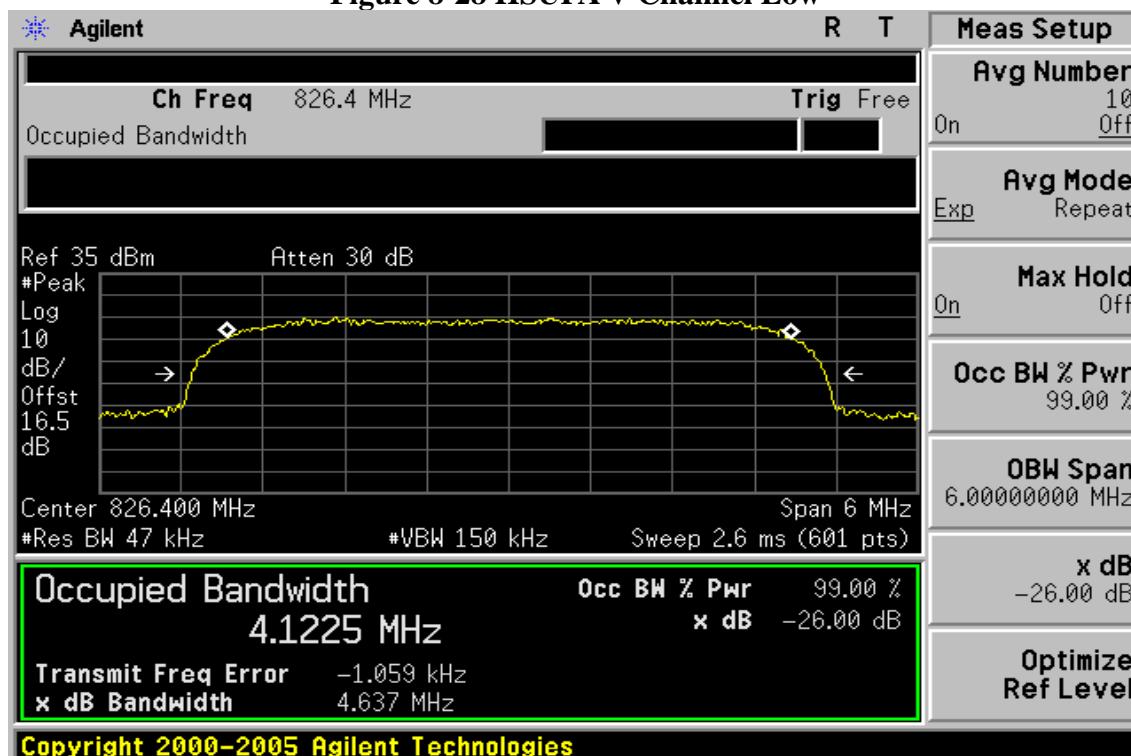


Figure 8-28 HSUPA V Channel Low



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Figure 8-29 HSUPA V Channel Mid

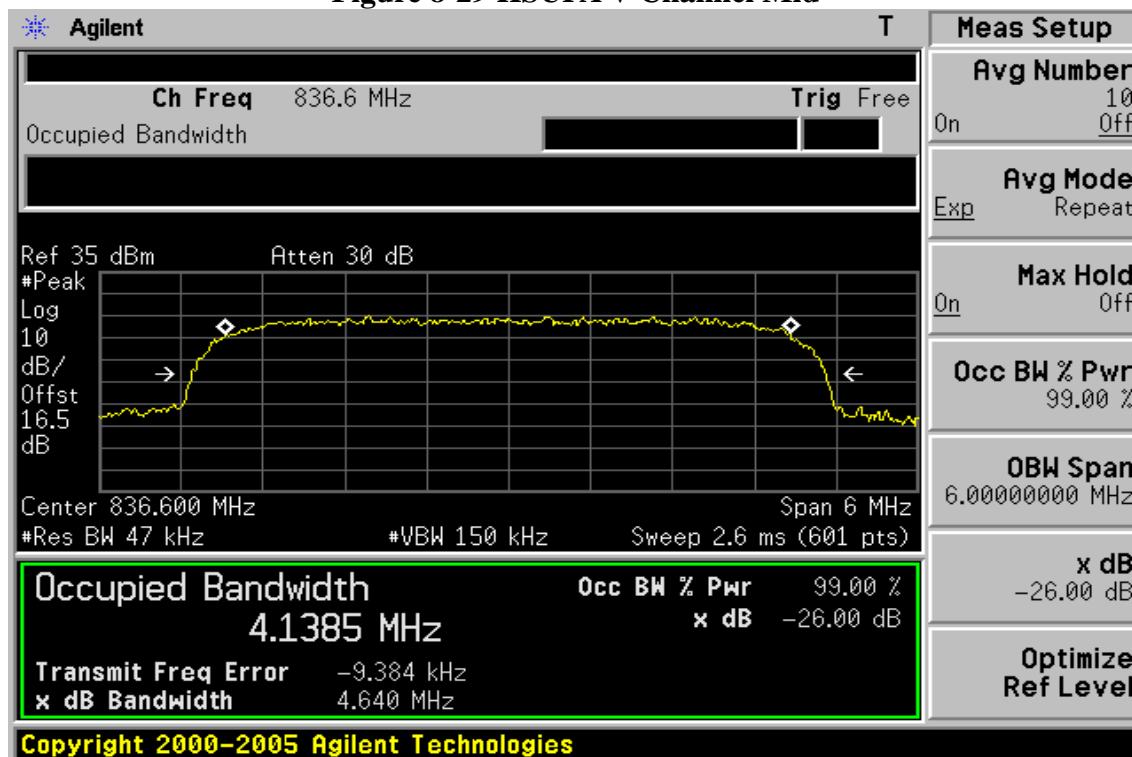
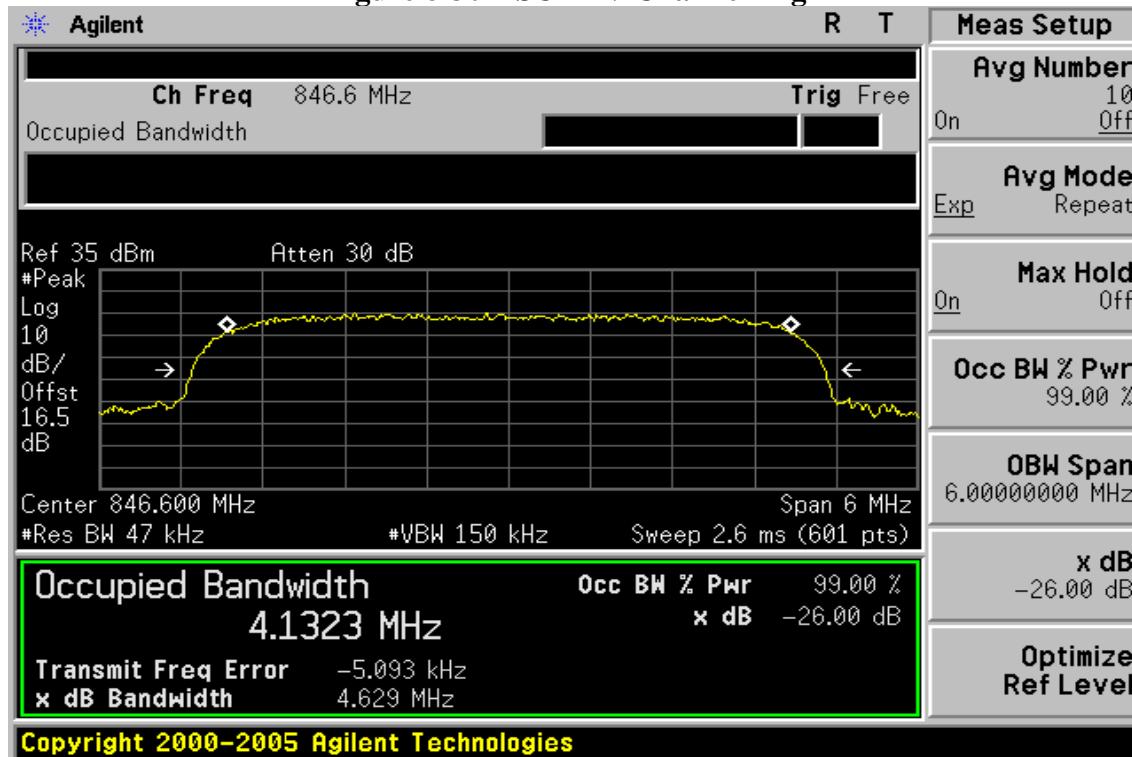


Figure 8-30 HSUPA V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

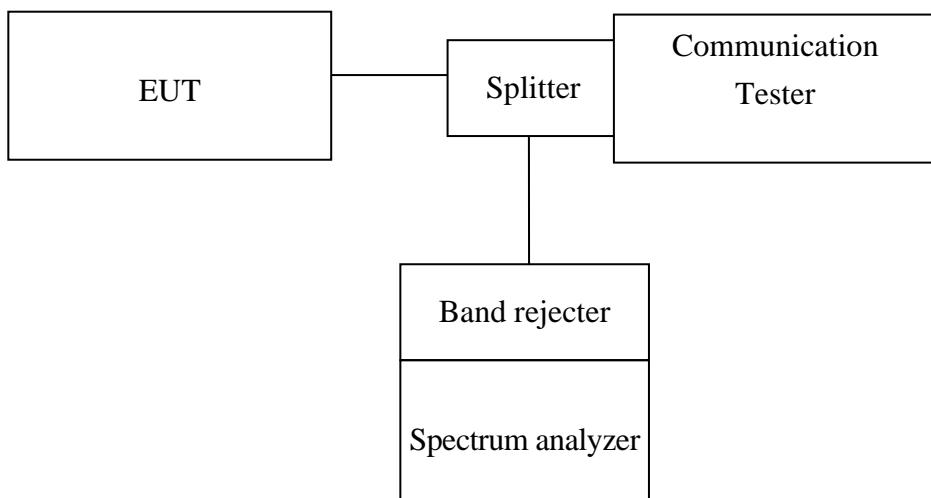
9.1. Standard Applicable:

According to FCC §2.1051.

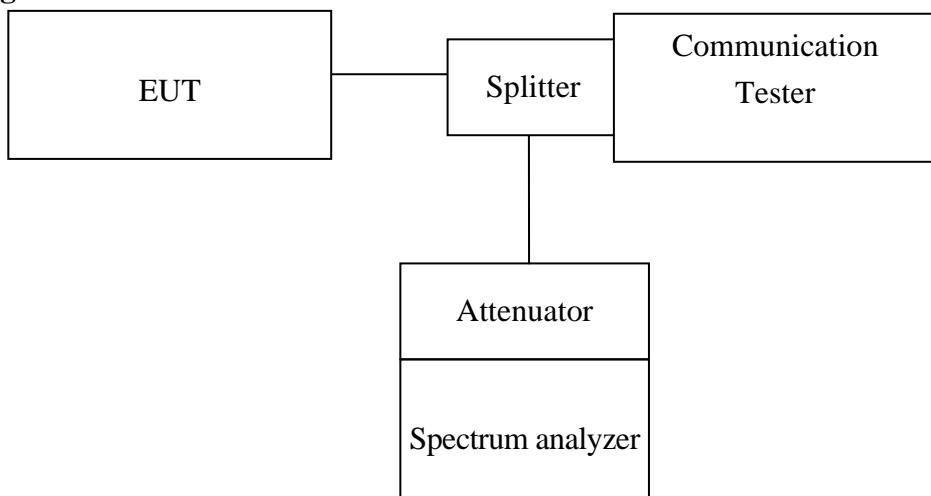
FCC §22.917(a),§24.238(a) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean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

9.2. Test SET-UP:

Out of band emission



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= 10th 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

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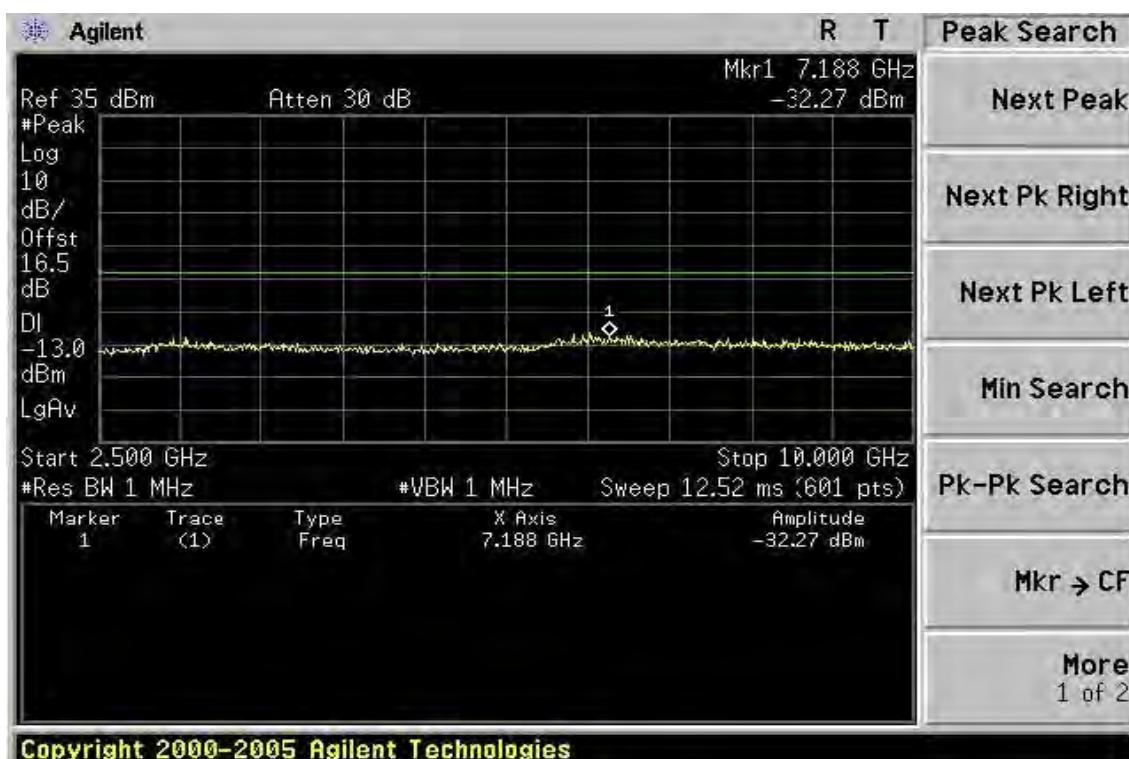
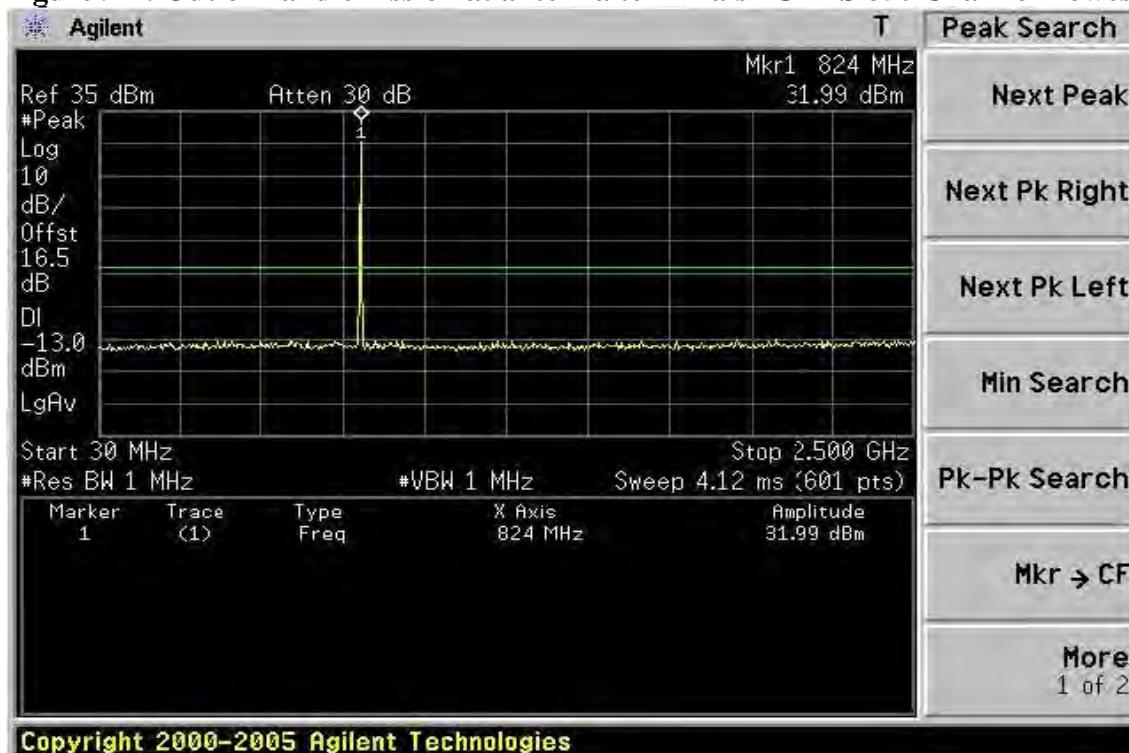
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9.5. Measurement Result:

Figure 9-1: Out of Band emission at antenna terminals— GPRS 850 Channel Lowest



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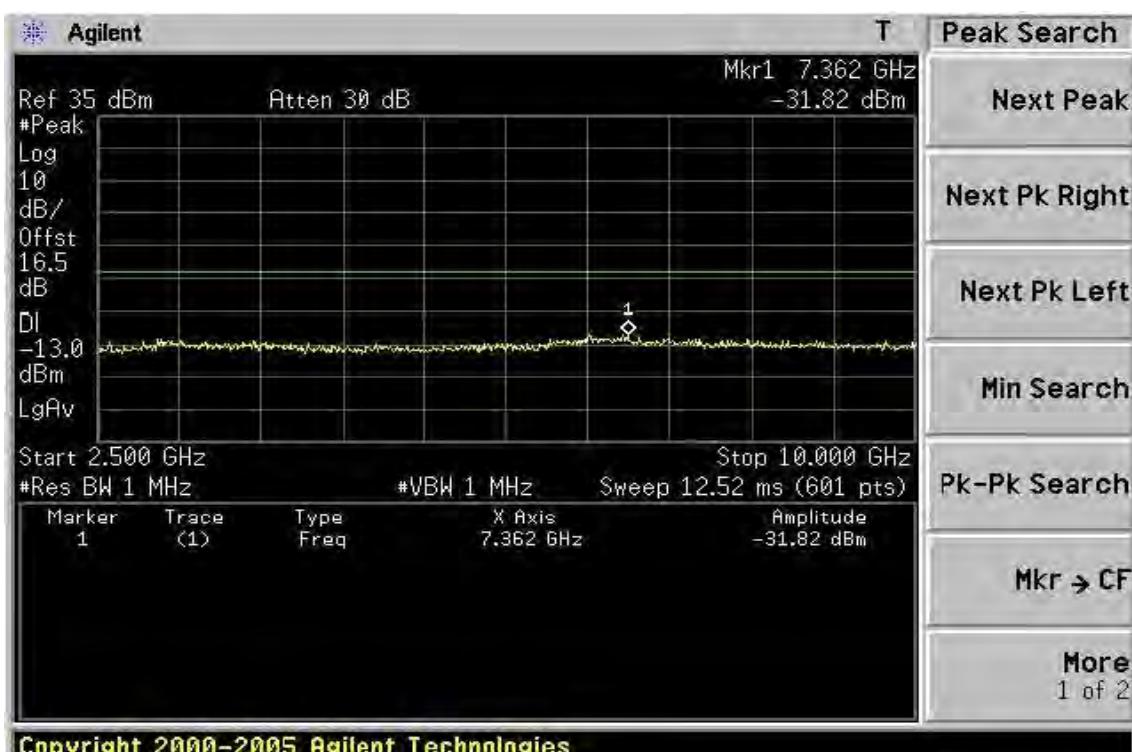
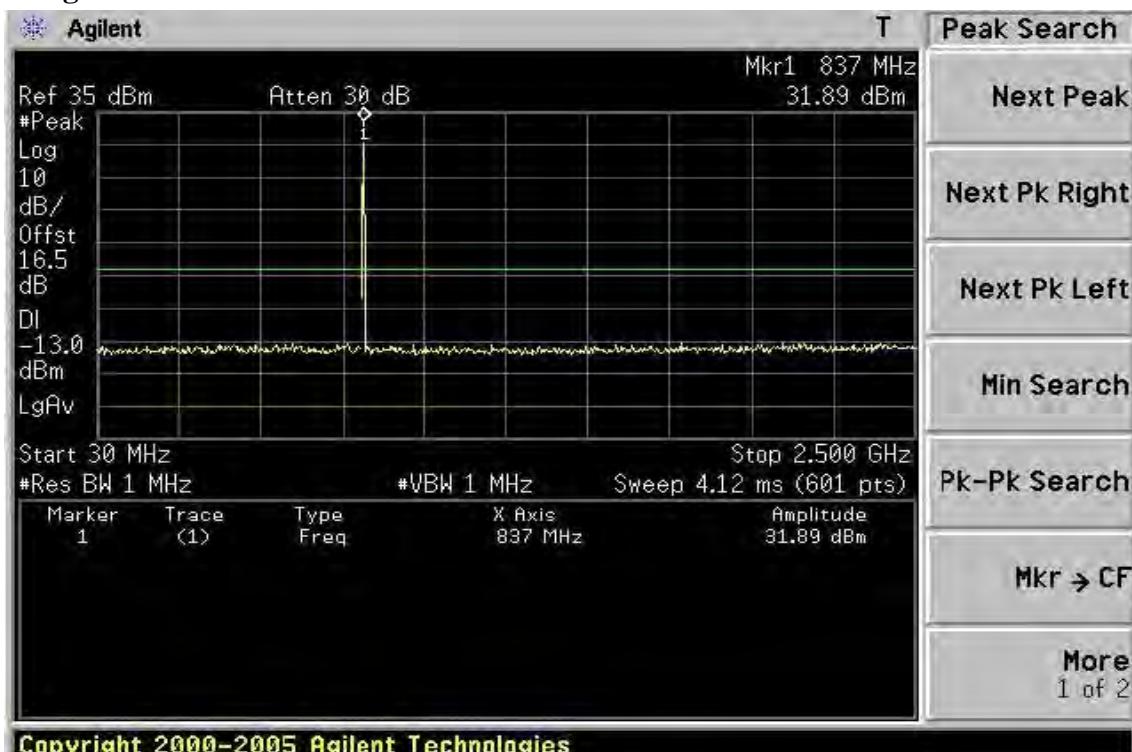
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Figure 9-2: Out of Band emission at antenna terminals –GPRS 850 Channel Mid



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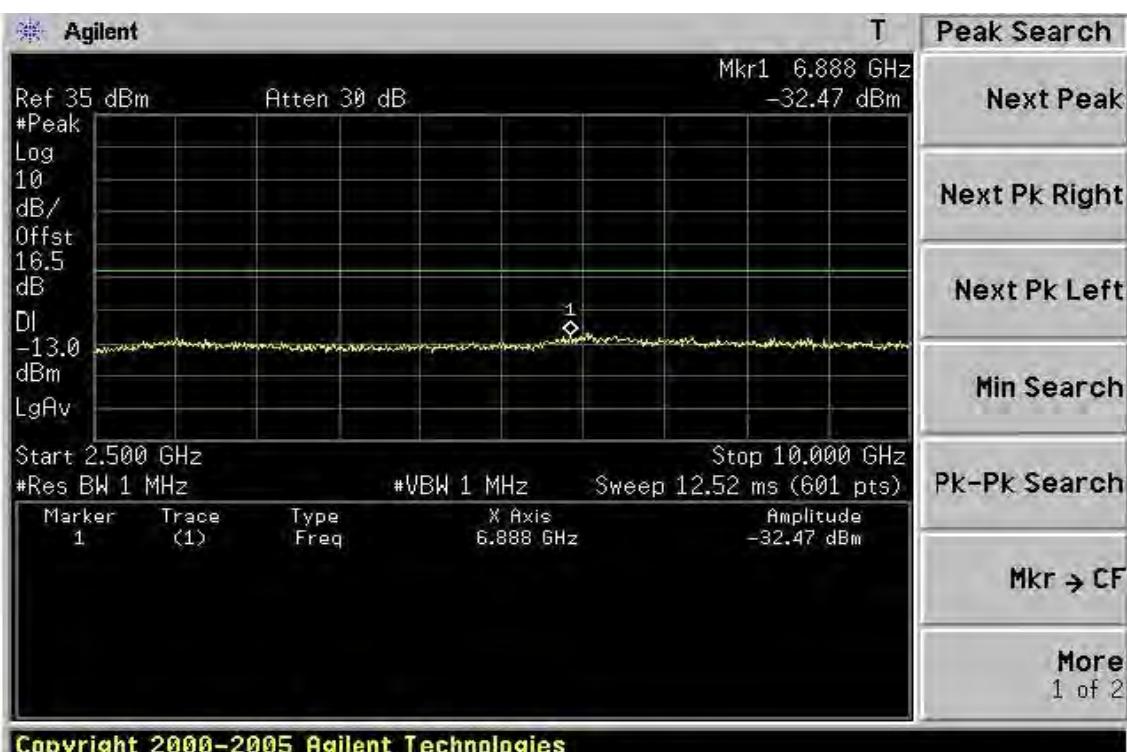
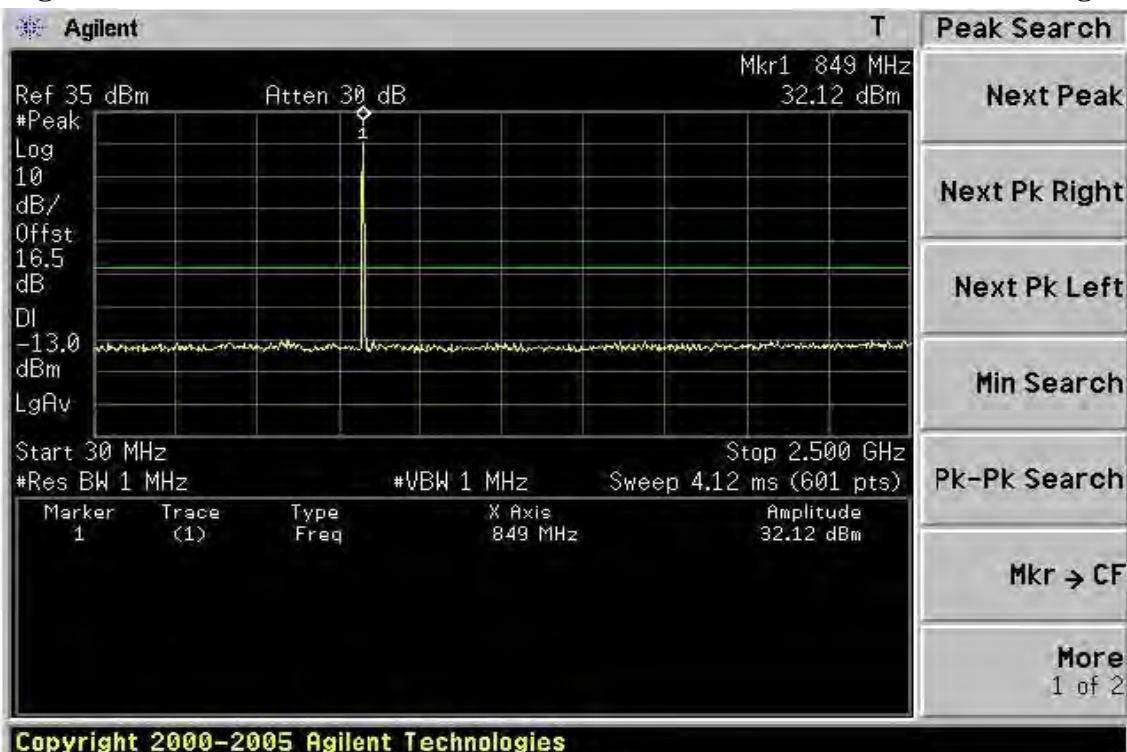
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Figure 9-3: Out of Band emission at antenna terminals—GPRS 850 Channel Highest



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

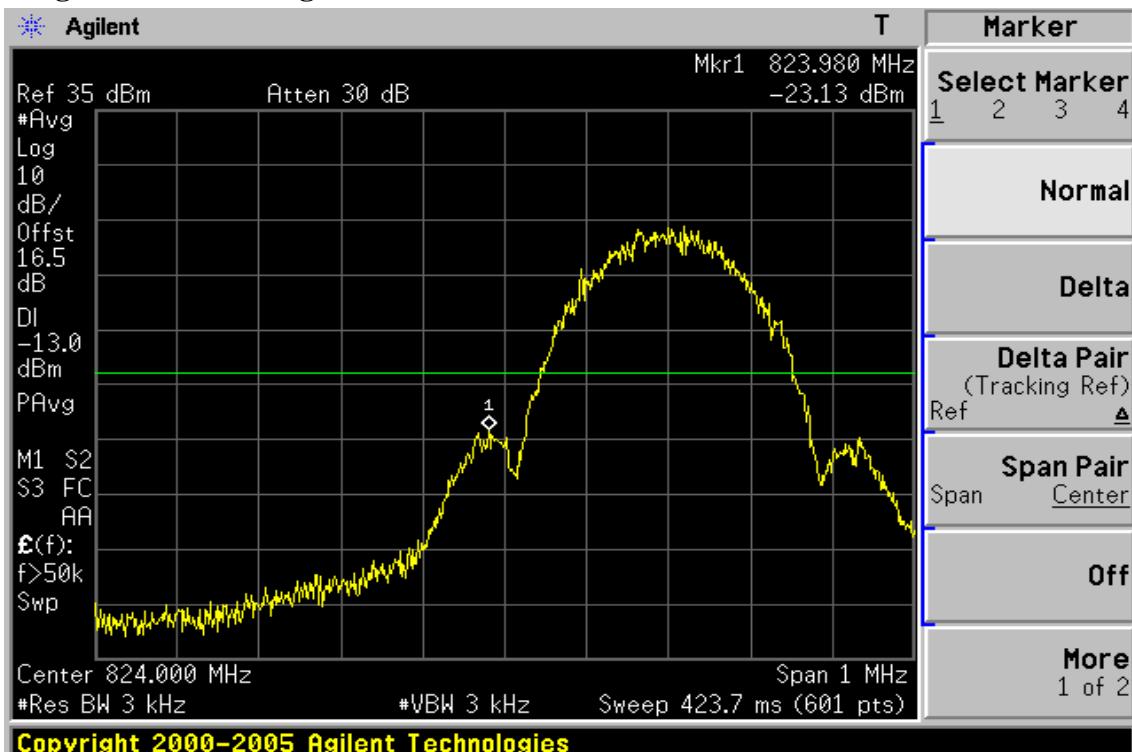
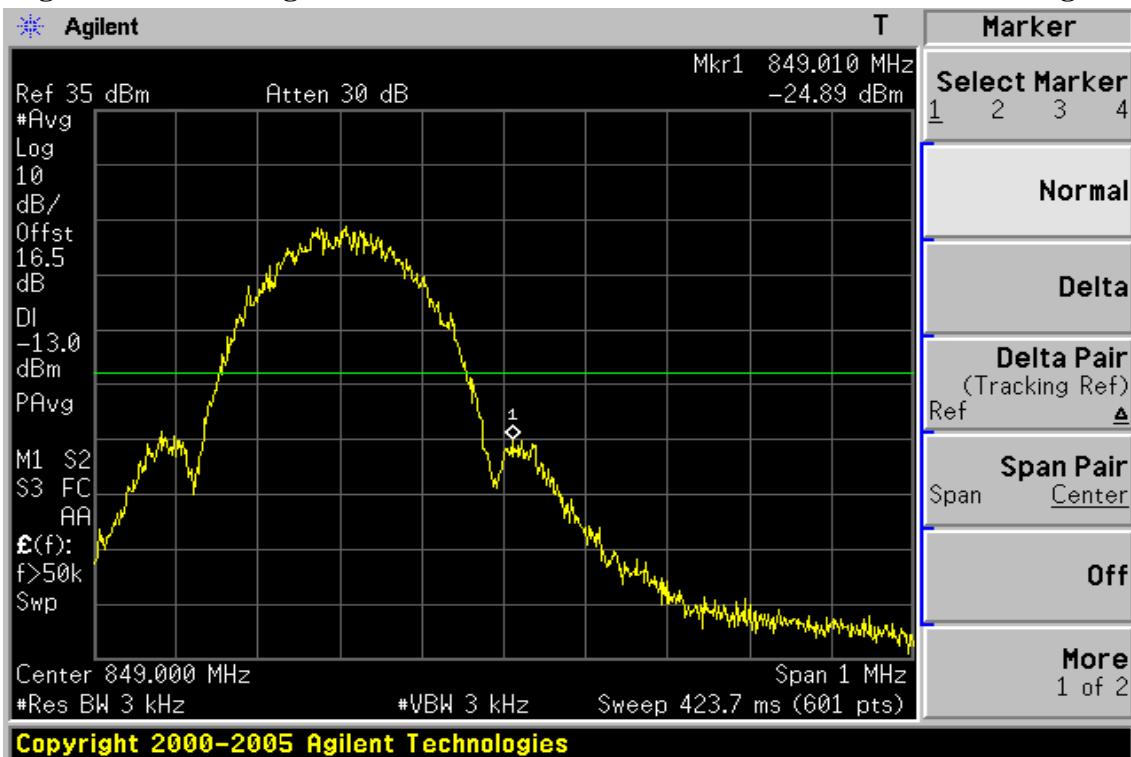


Figure 9-5: Band edge emission at antenna terminals –GPRS 850 Channel Highest



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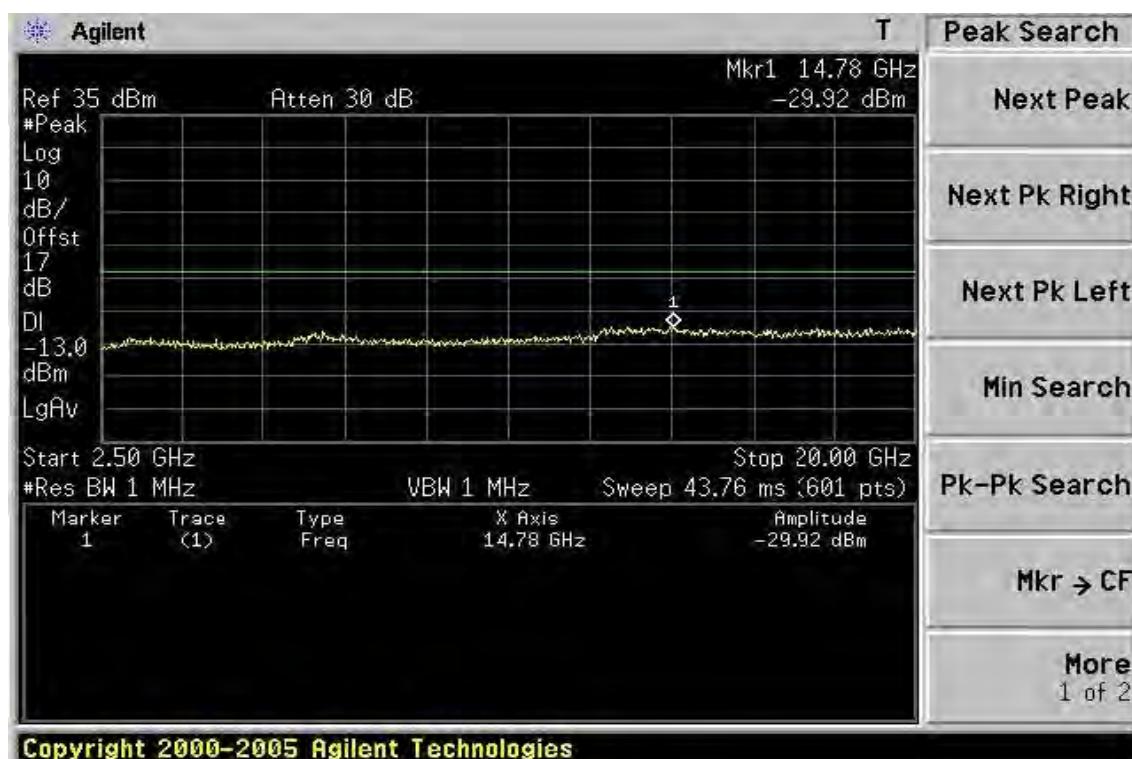
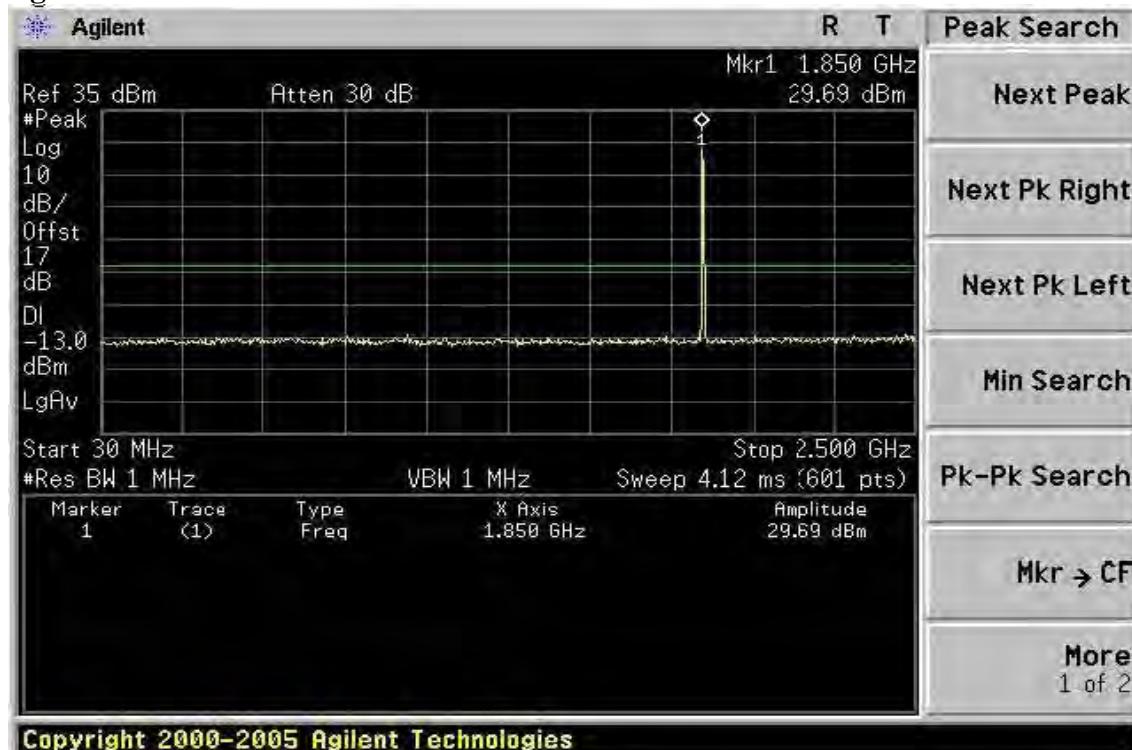
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Figure 9-6: Out of Band emission at antenna terminals—GPRS 1900 Channel Lowest



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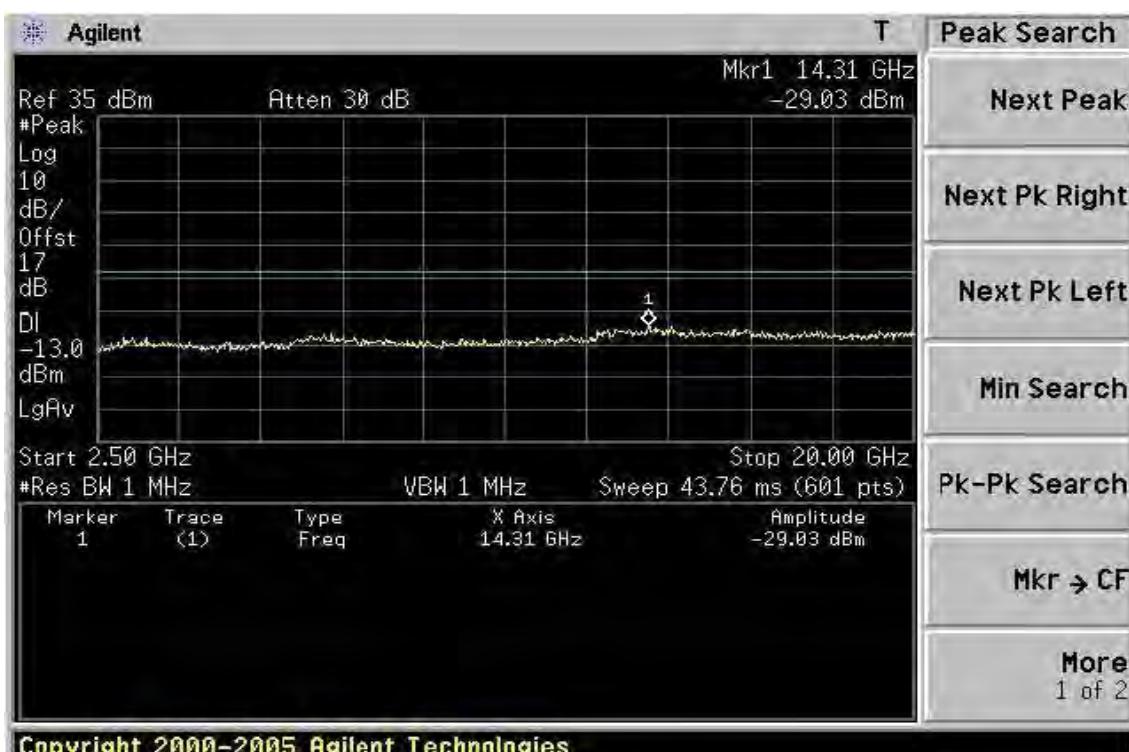
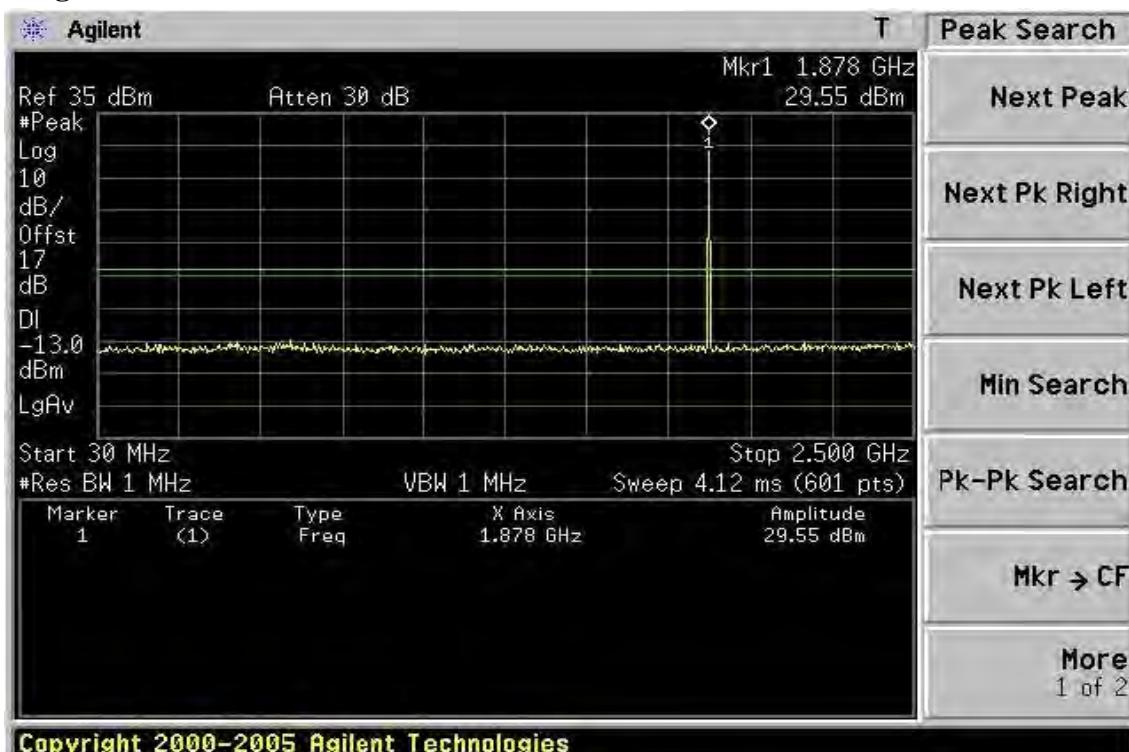
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Figure 9-7: Out of Band emission at antenna terminals –GPRS 1900 Channel Mid



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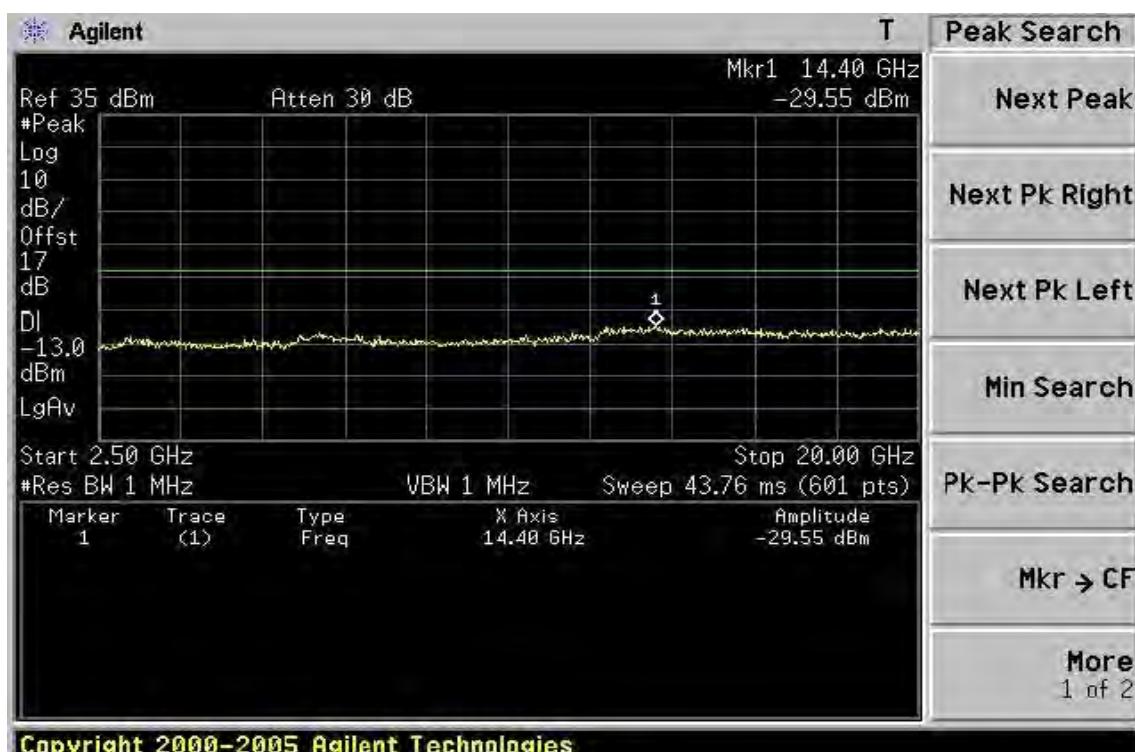
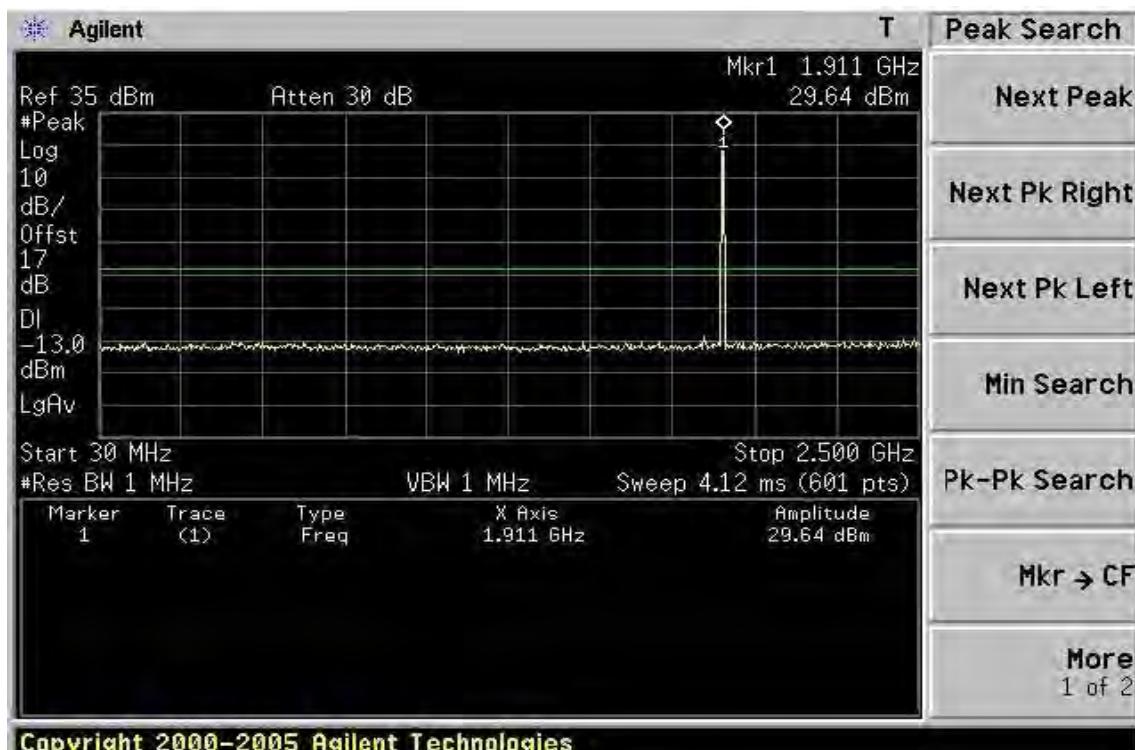
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Figure 9-8: Out of Band emission at antenna terminals—GPRS 1900 Channel Highest



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

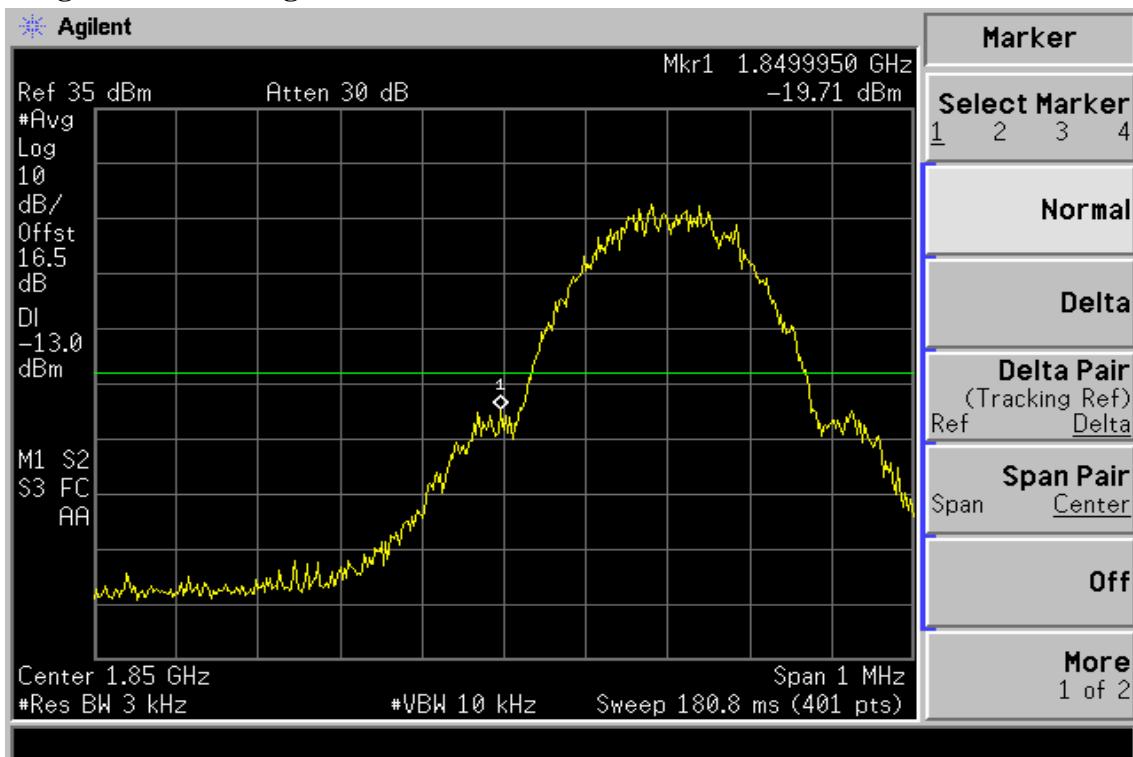
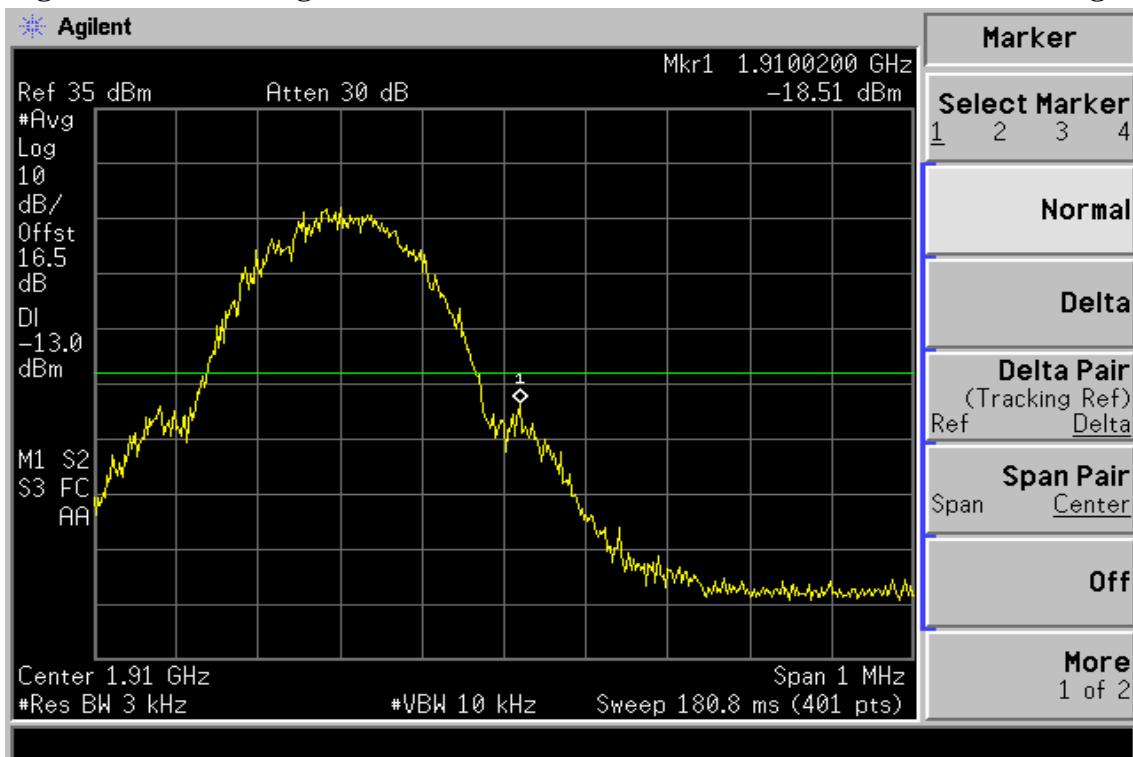


Figure 9-10: Band edge emission at antenna terminals –GPRS 1900 Channel Highest



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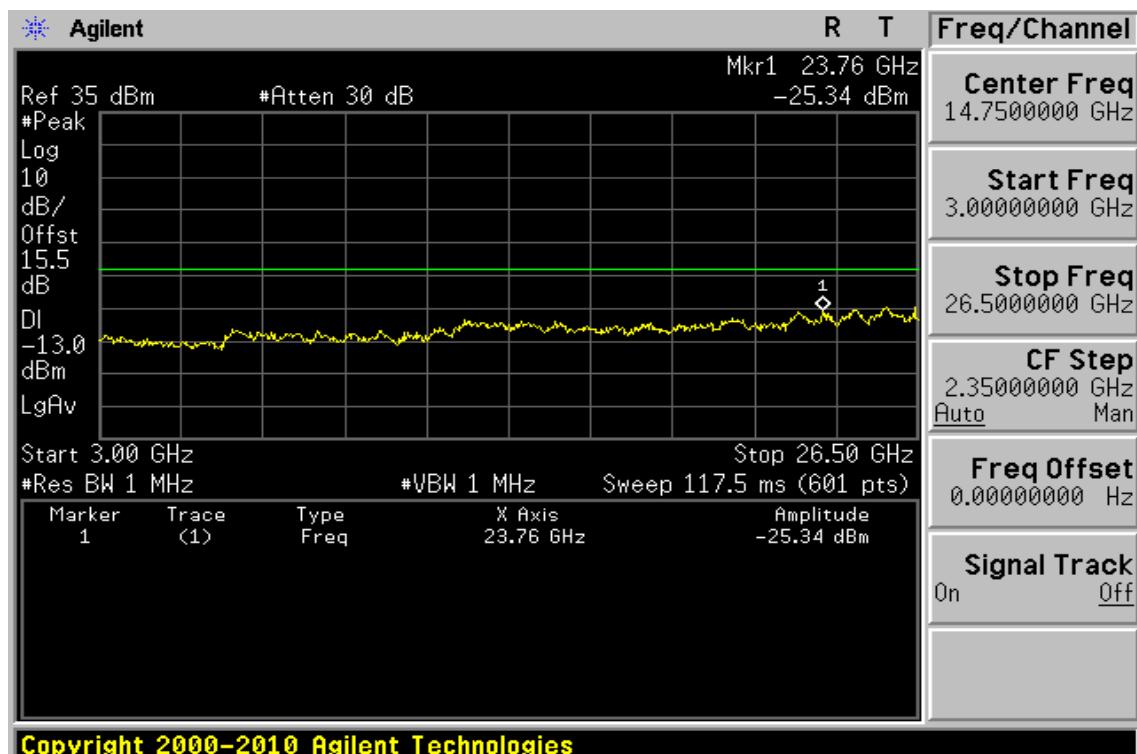
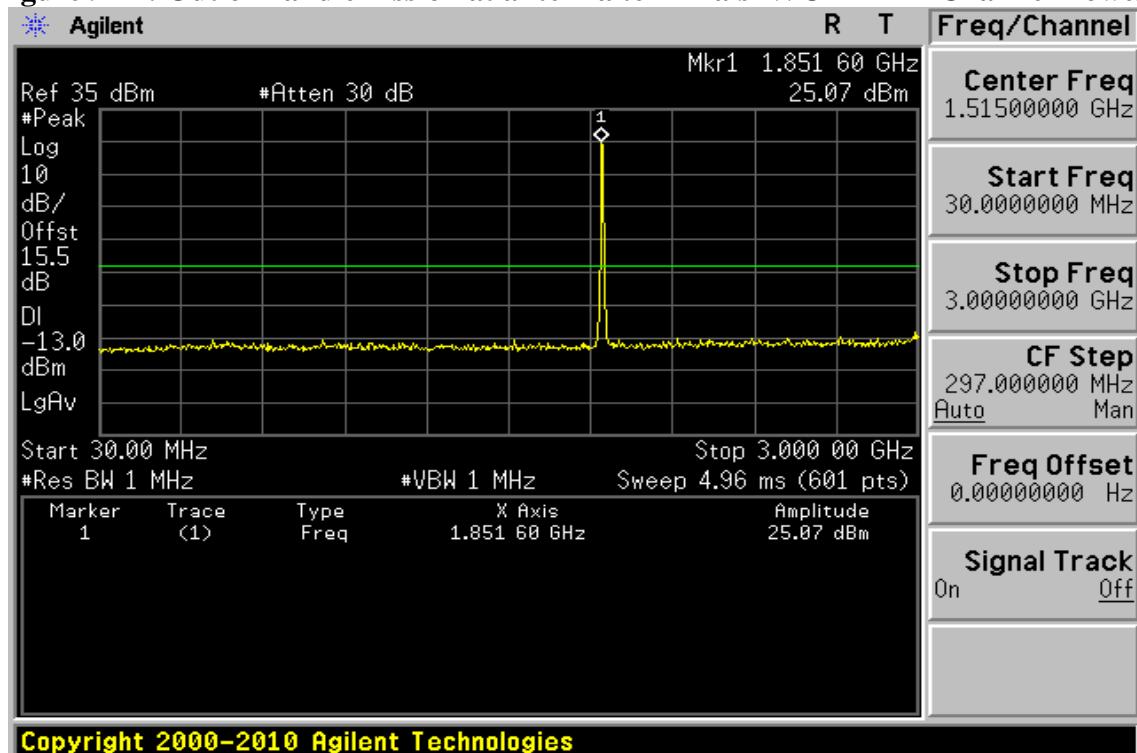
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Figure 9-11: Out of Band emission at antenna terminals—WCDMA II Channel Lowest



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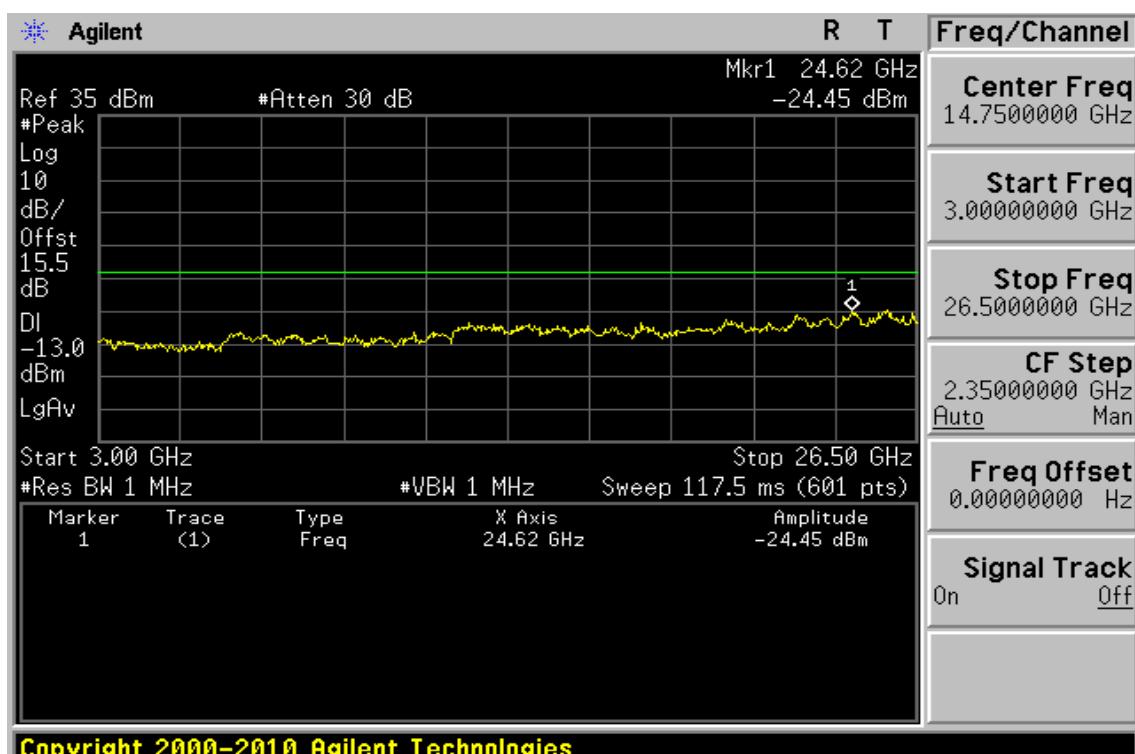
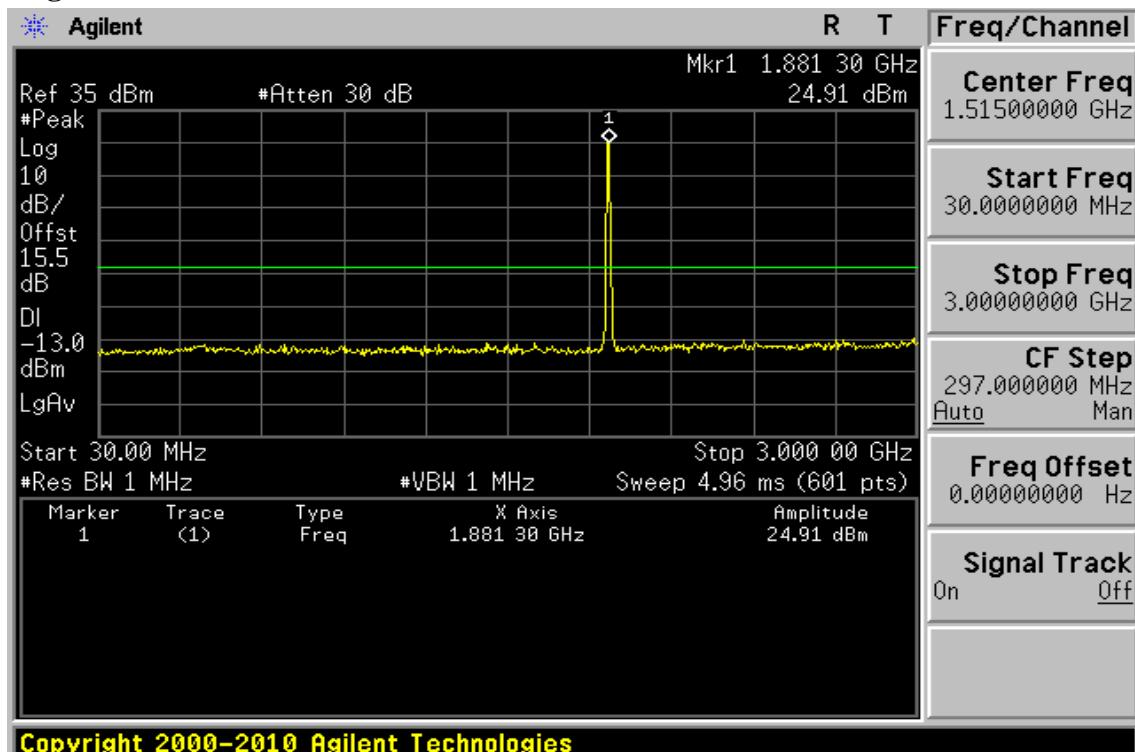
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Figure 9-12: Out of Band emission at antenna terminals –WCDMA II Channel Mid



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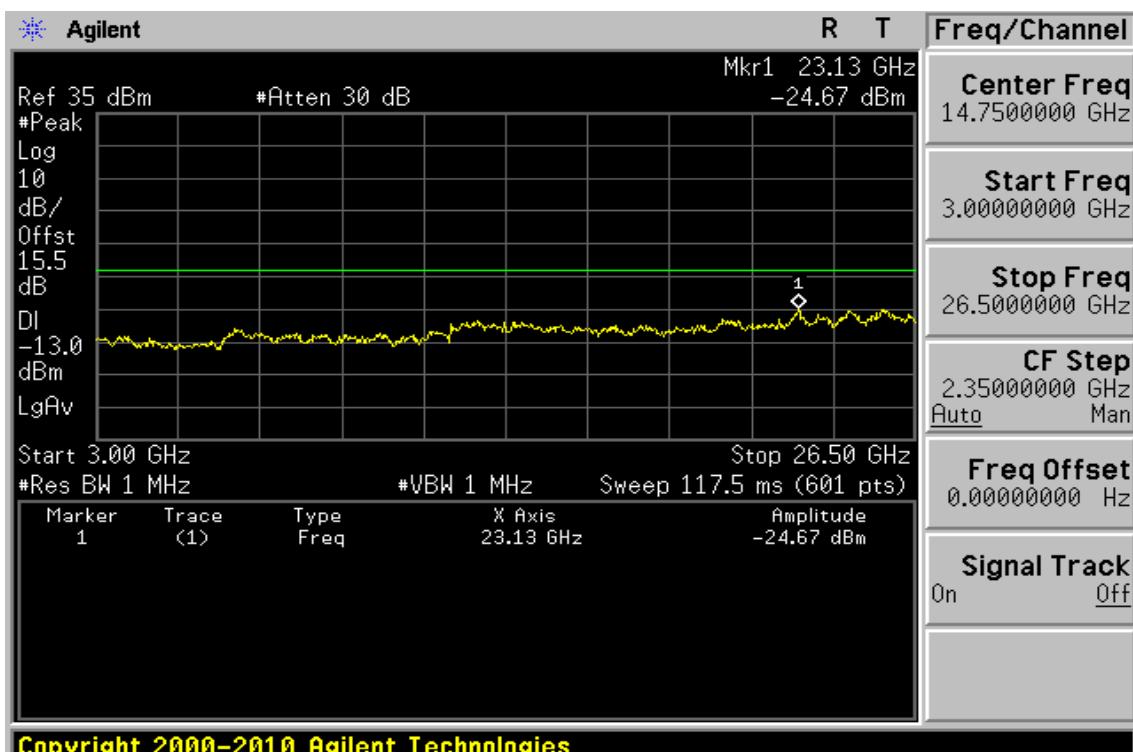
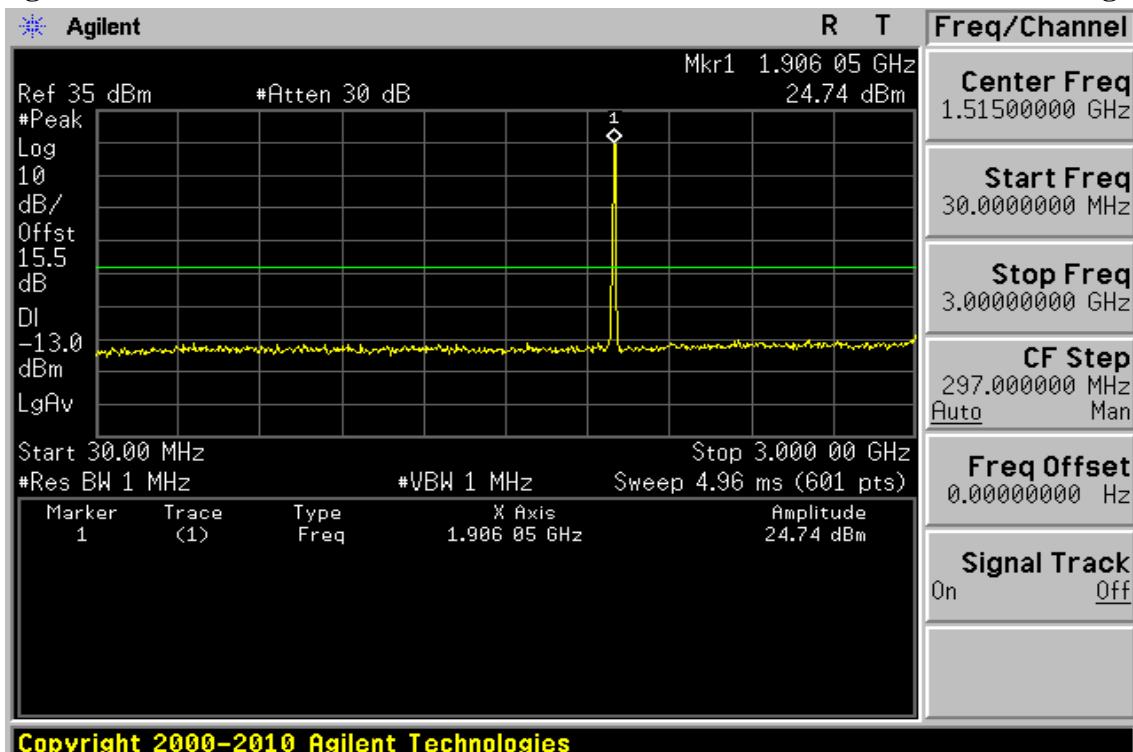
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Figure 9-13: Out of Band emission at antenna terminals—WCDMA II Channel Highest



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Figure 9-14: Bad edge emission at antenna terminals –WCDMA II Channel Lowest

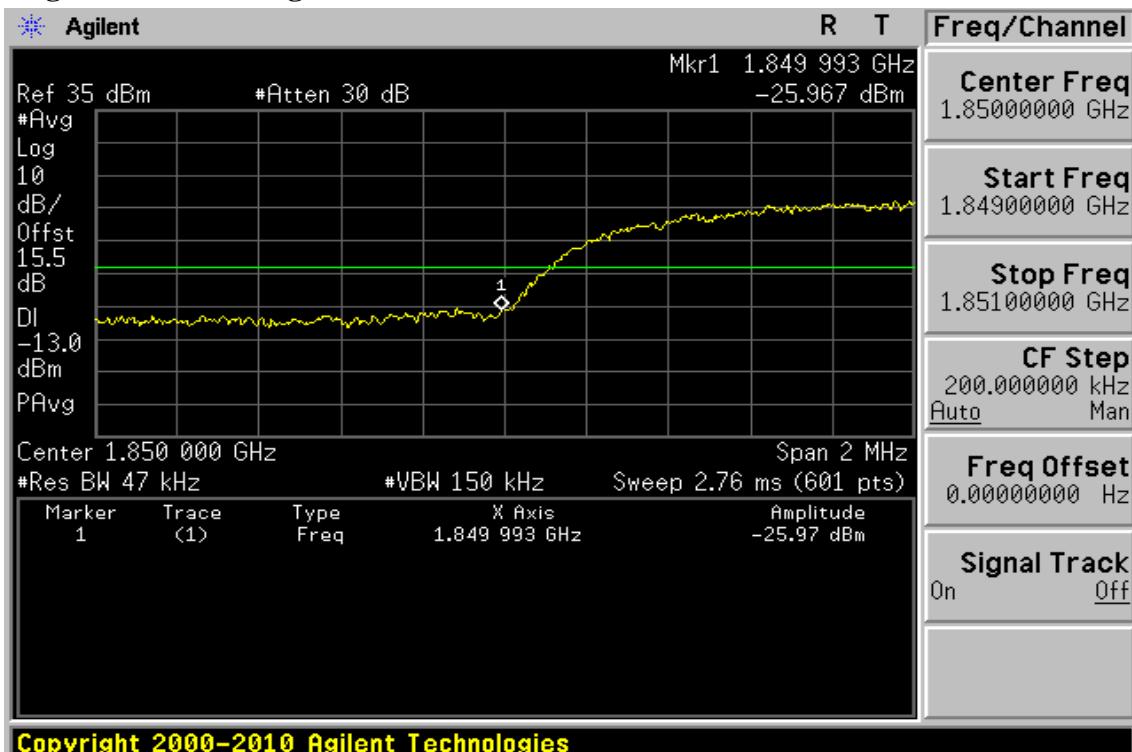
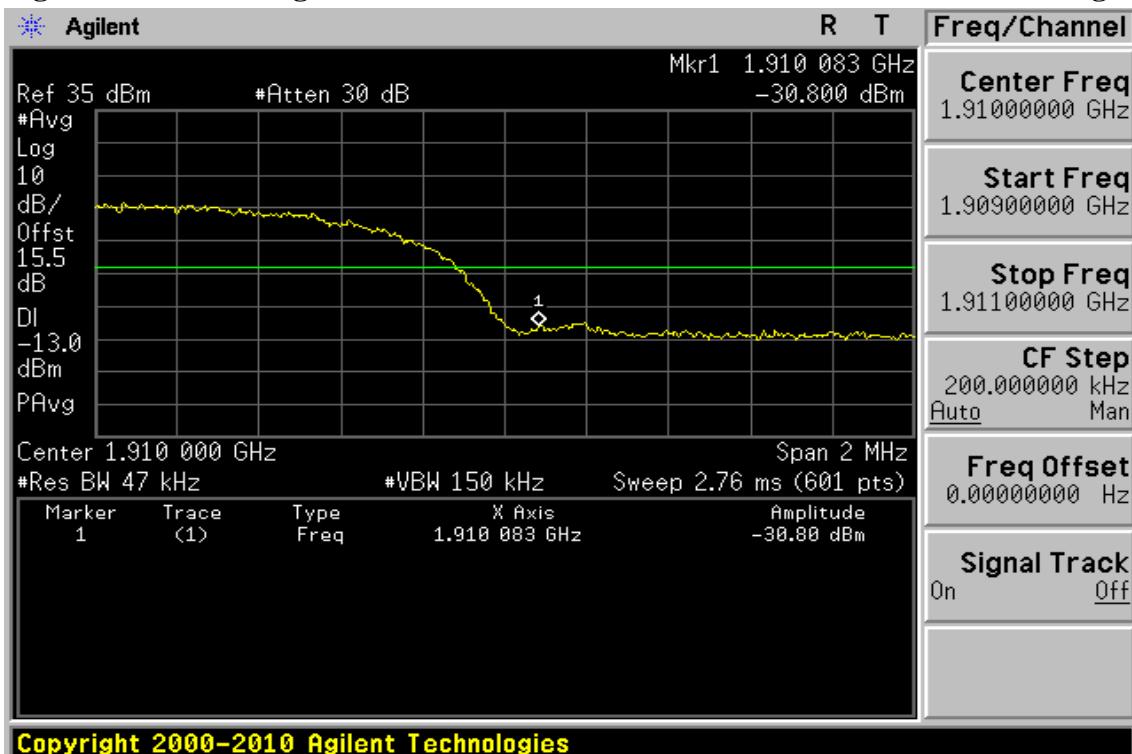


Figure 9-15: Band edge emission at antenna terminals –WCDMA II Channel Highest



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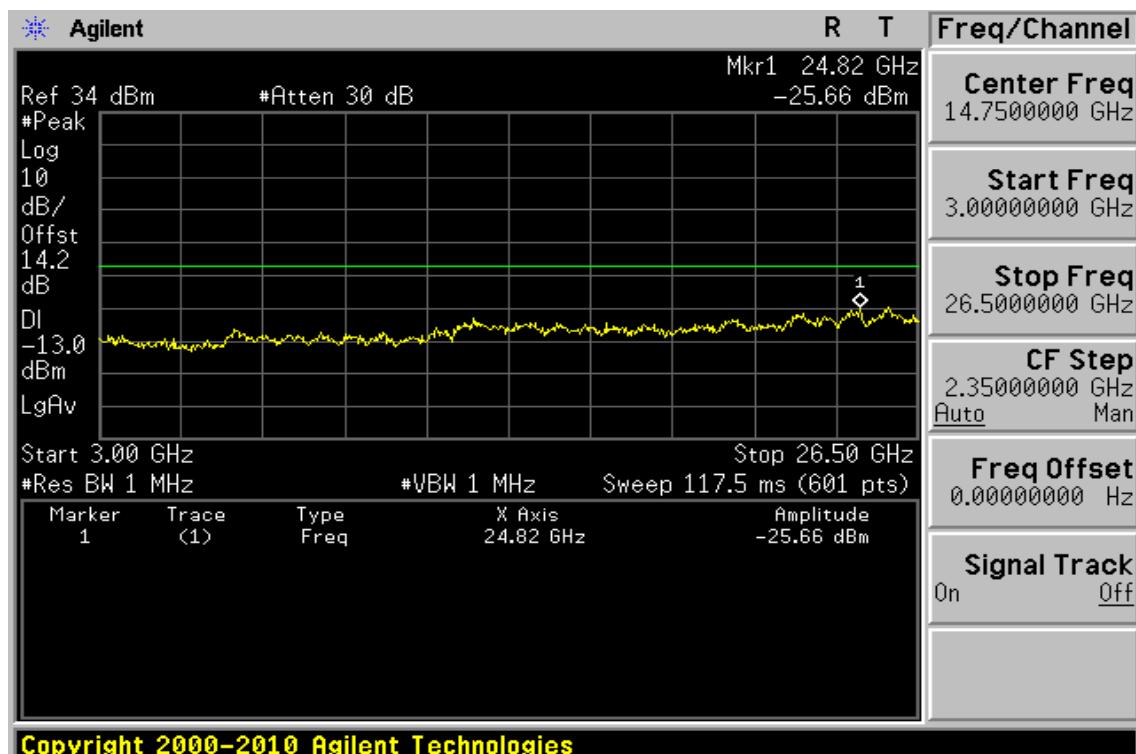
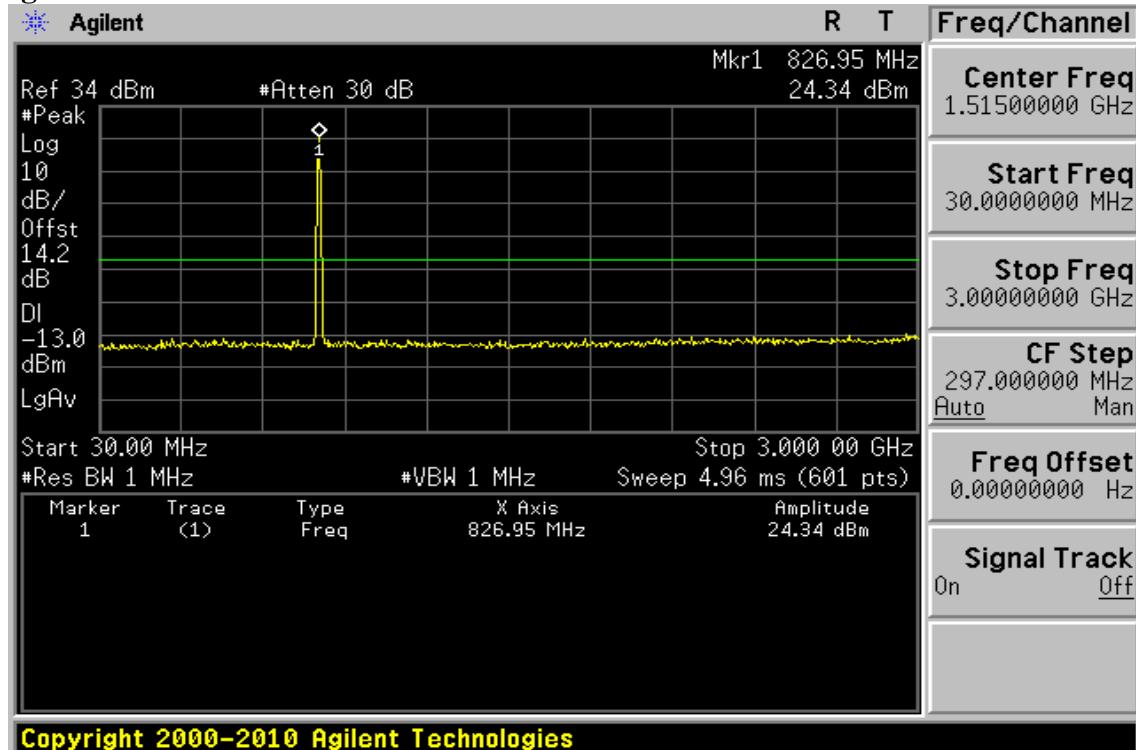
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Figure 9-16: Out of Band emission at antenna terminals—WCDMA V Channel Lowest



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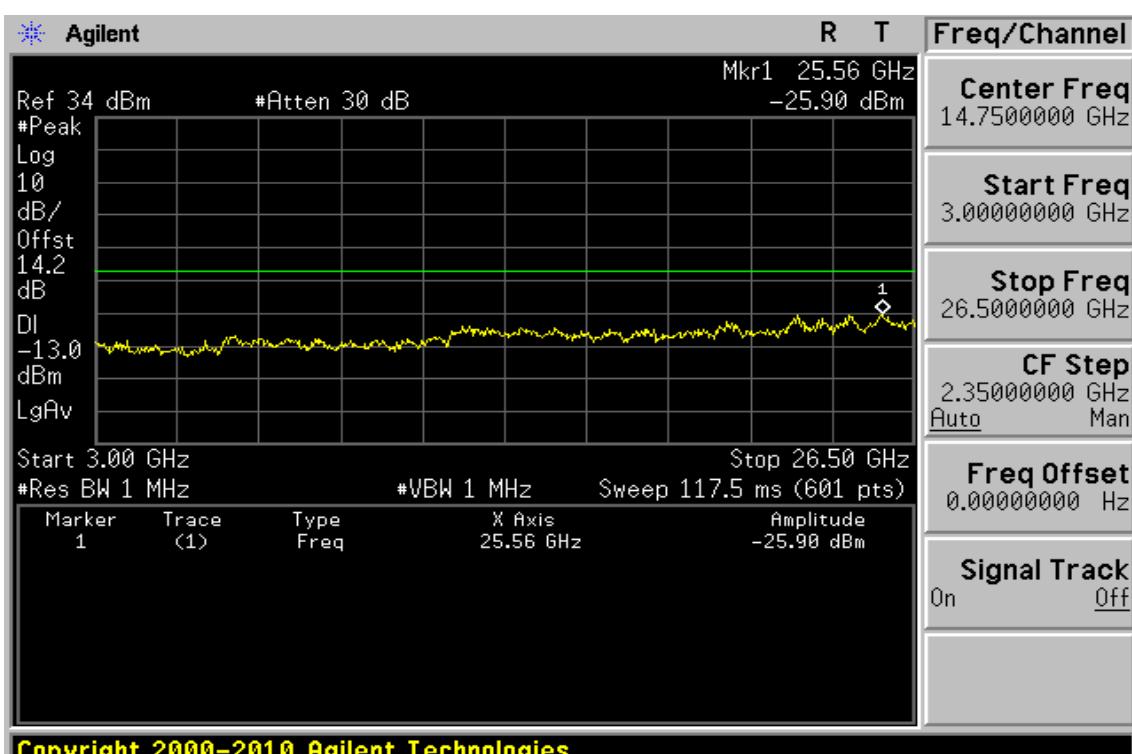
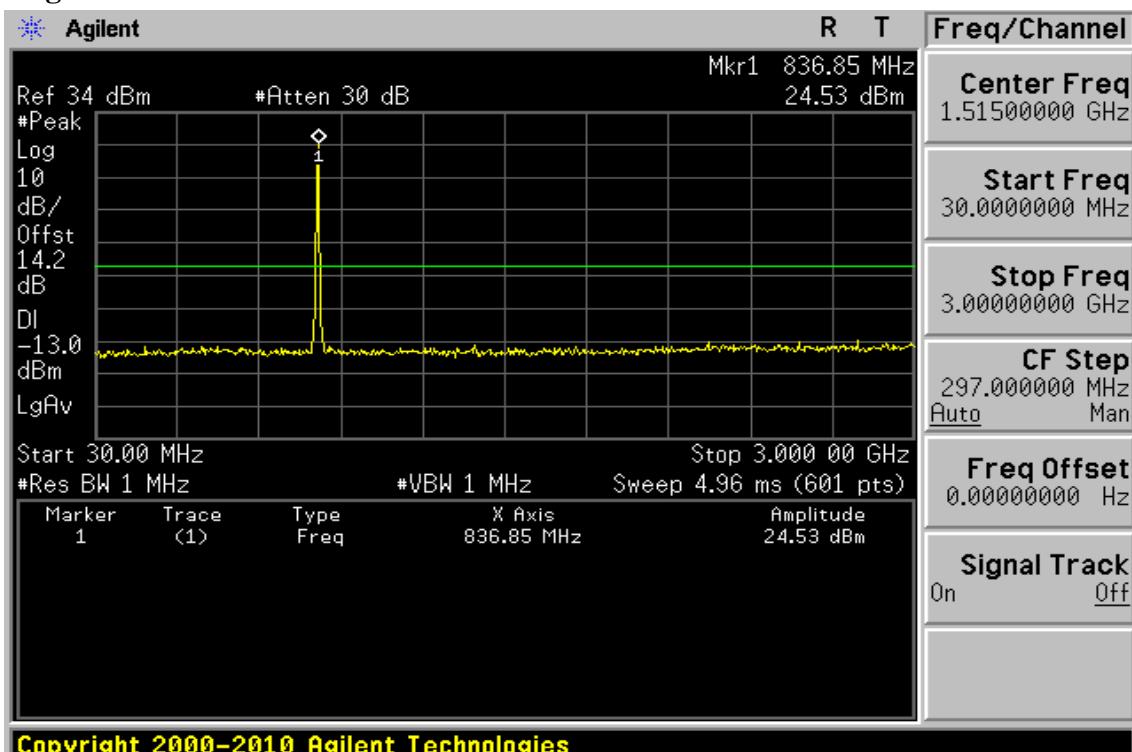
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Figure 9-17: Out of Band emission at antenna terminals –WCDMA V Channel Mid



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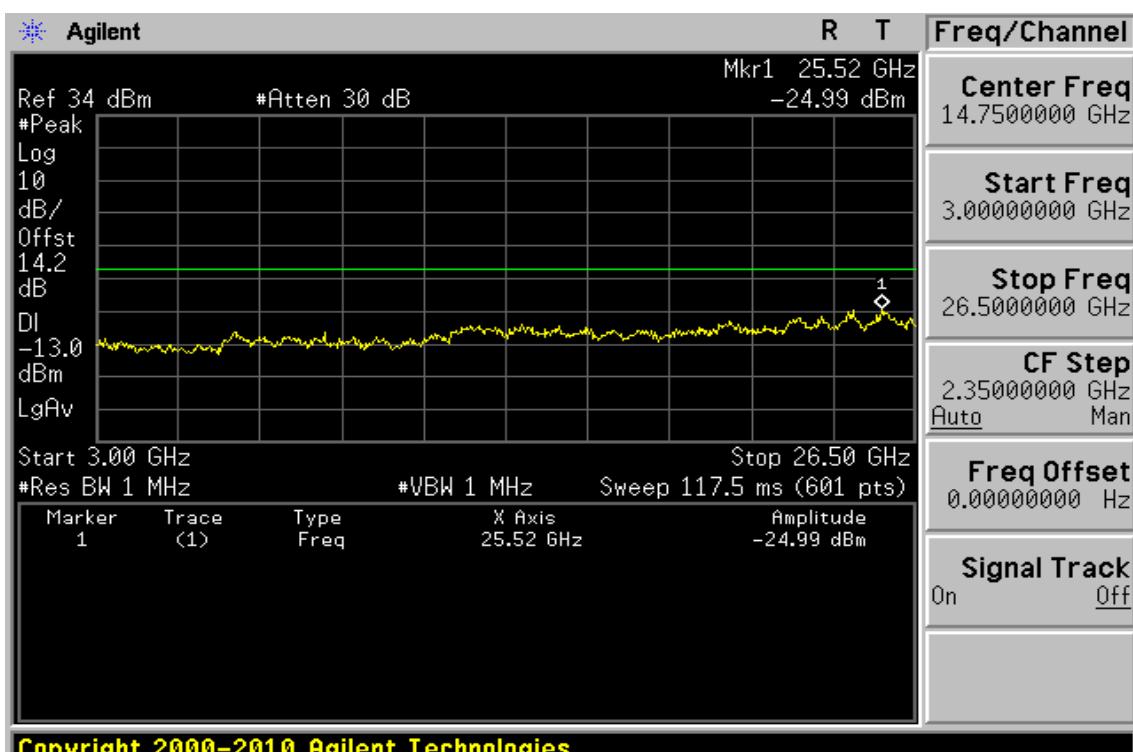
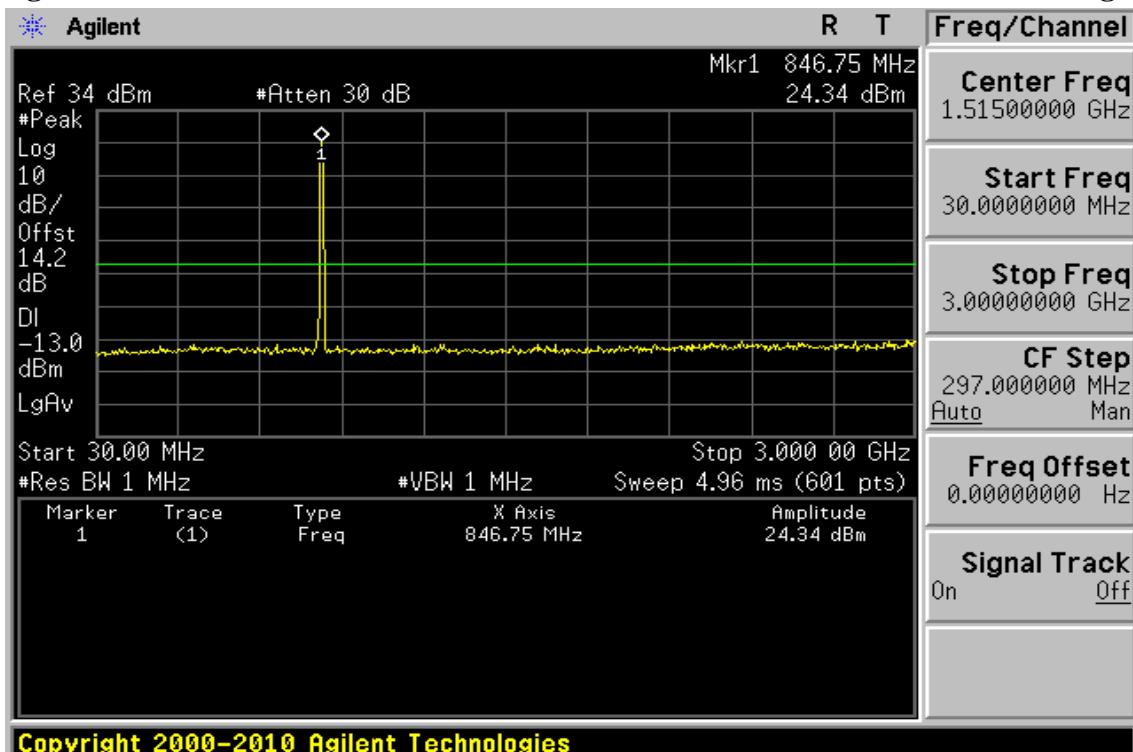
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Figure 9-18: Out of Band emission at antenna terminals—WCDMA V Channel Highest



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Figure 9-19: Bad edge emission at antenna terminals –WCDMA V Channel Lowest

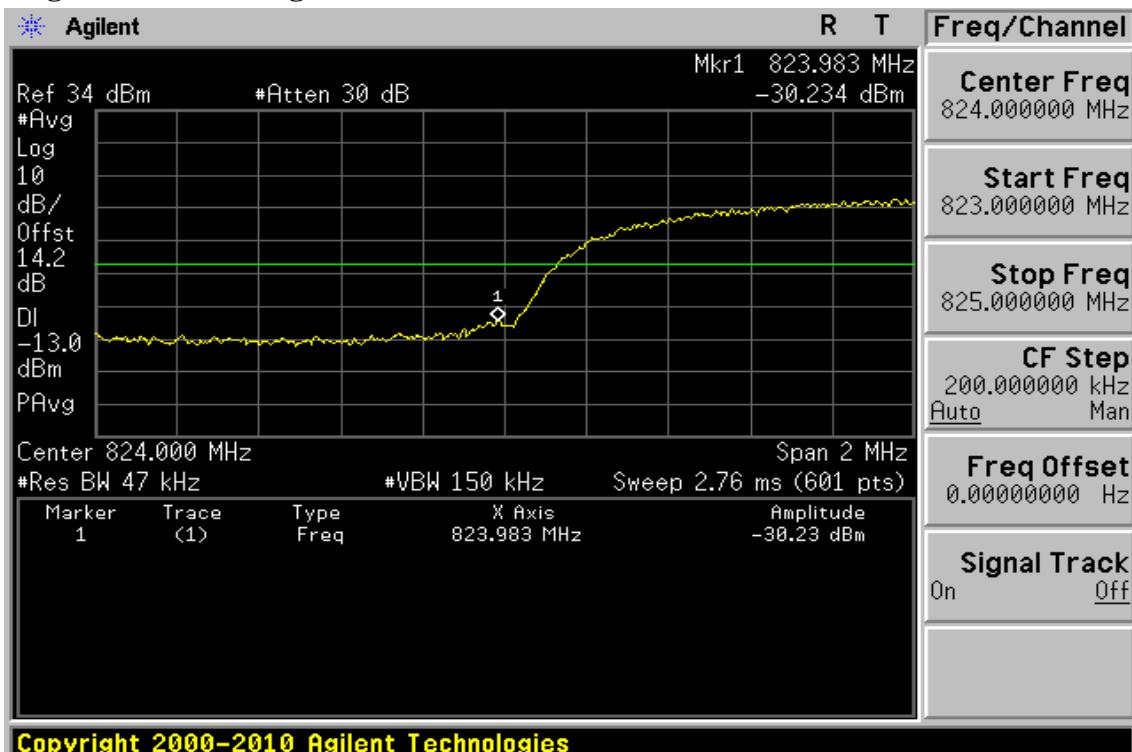
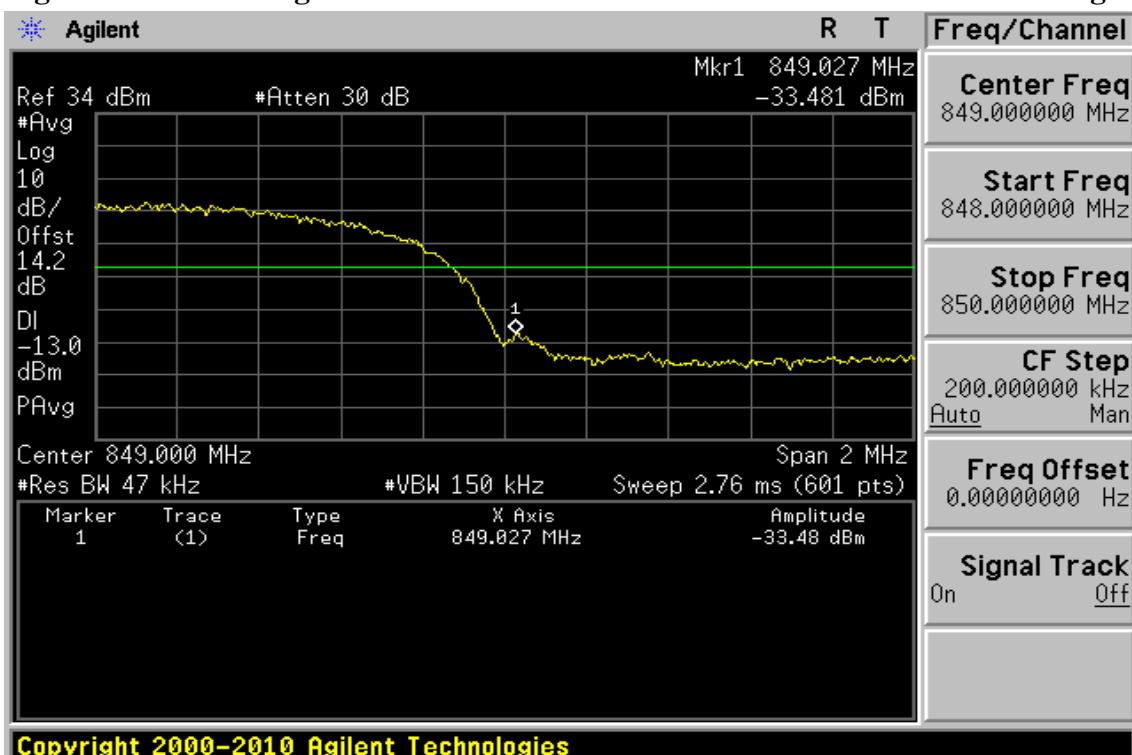


Figure 9-20: Band edge emission at antenna terminals –WCDMA V Channel Highest



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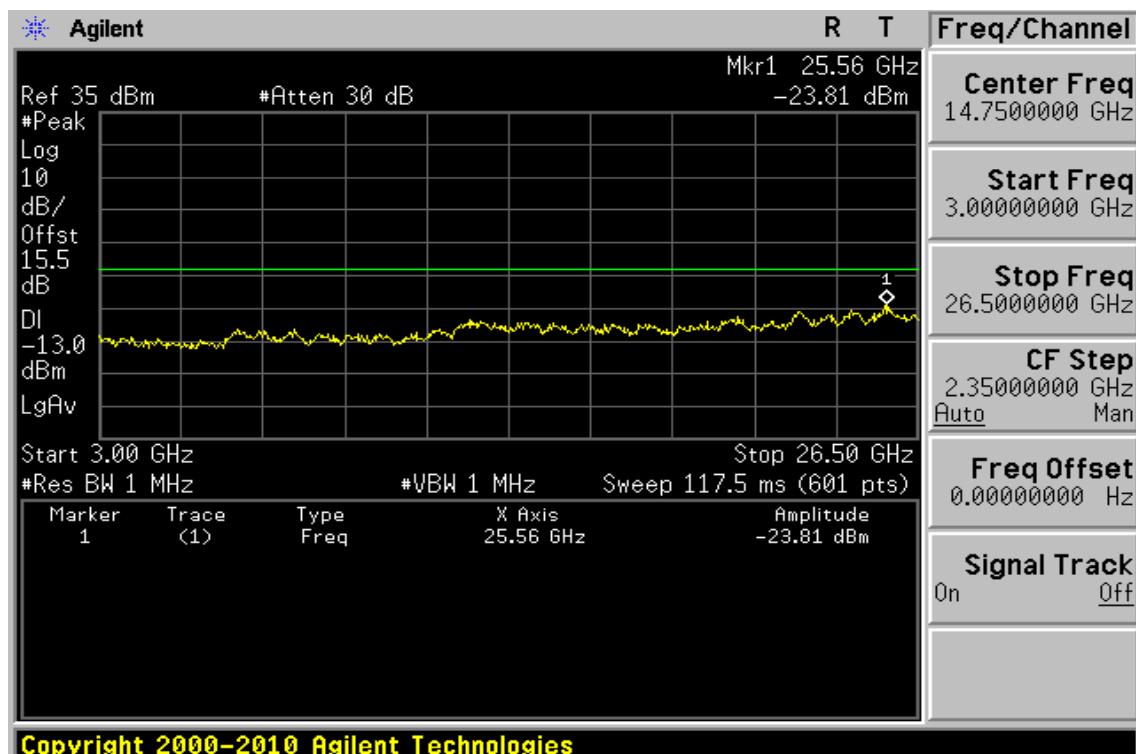
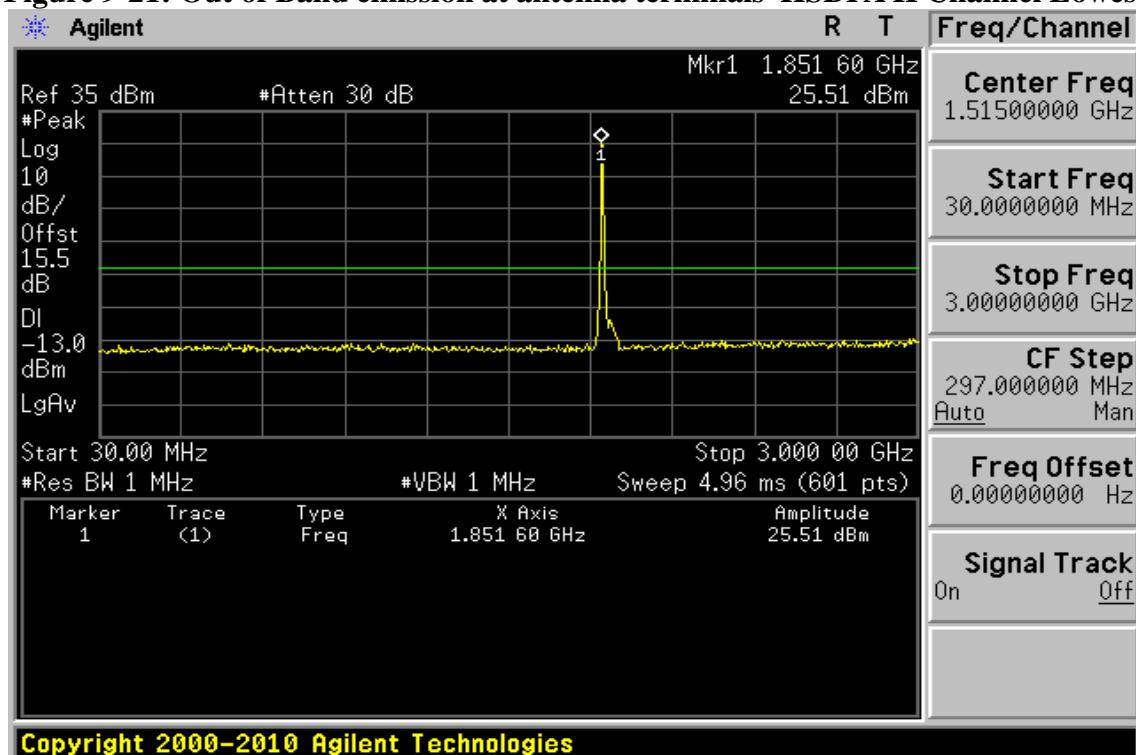
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Figure 9-21: Out of Band emission at antenna terminals—HSDPA II Channel Lowest



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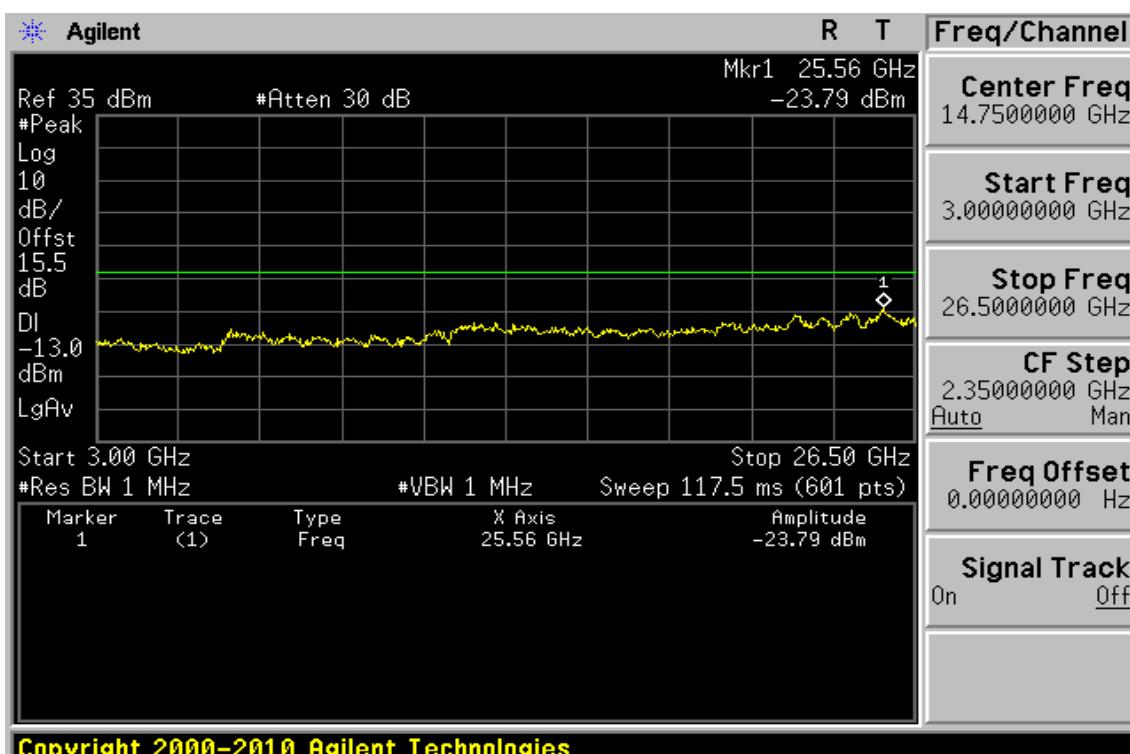
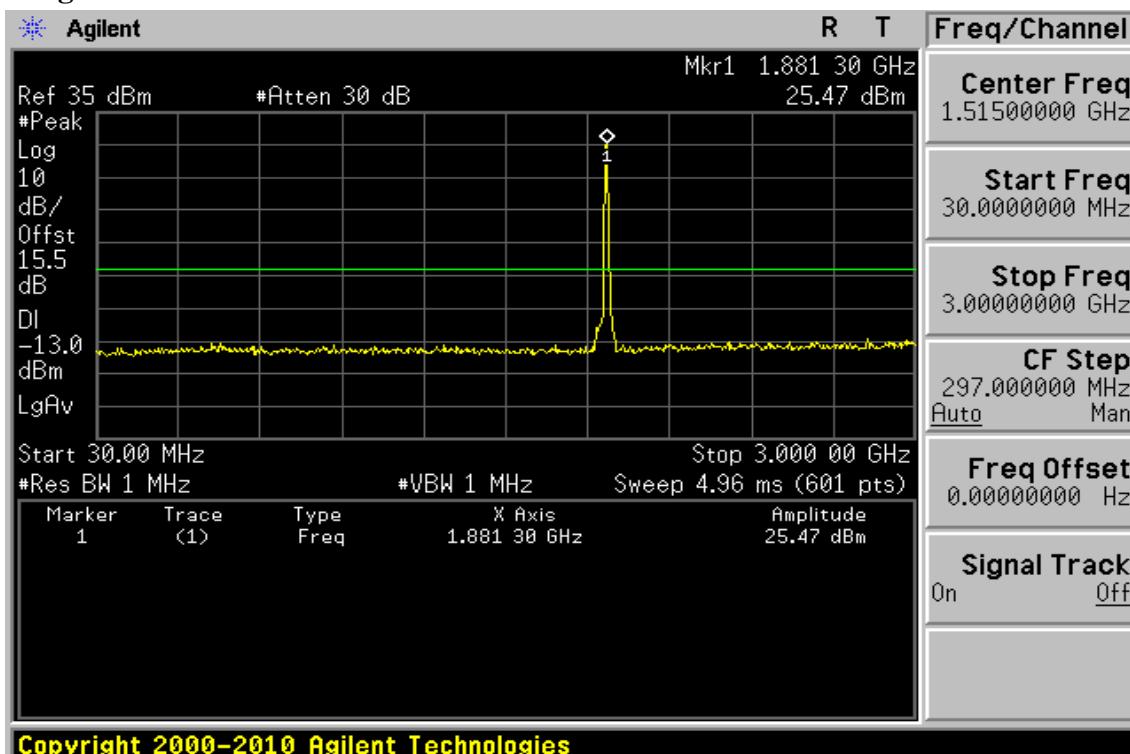
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Figure 9-22: Out of Band emission at antenna terminals –HSDPA II Channel Mid



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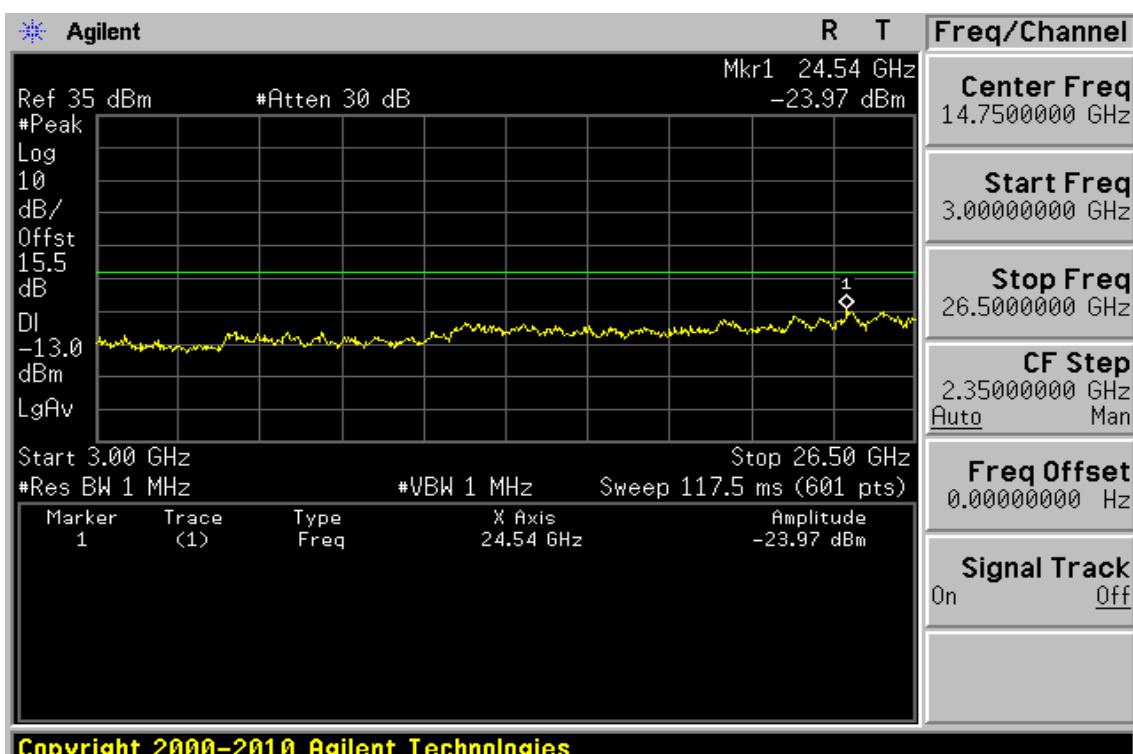
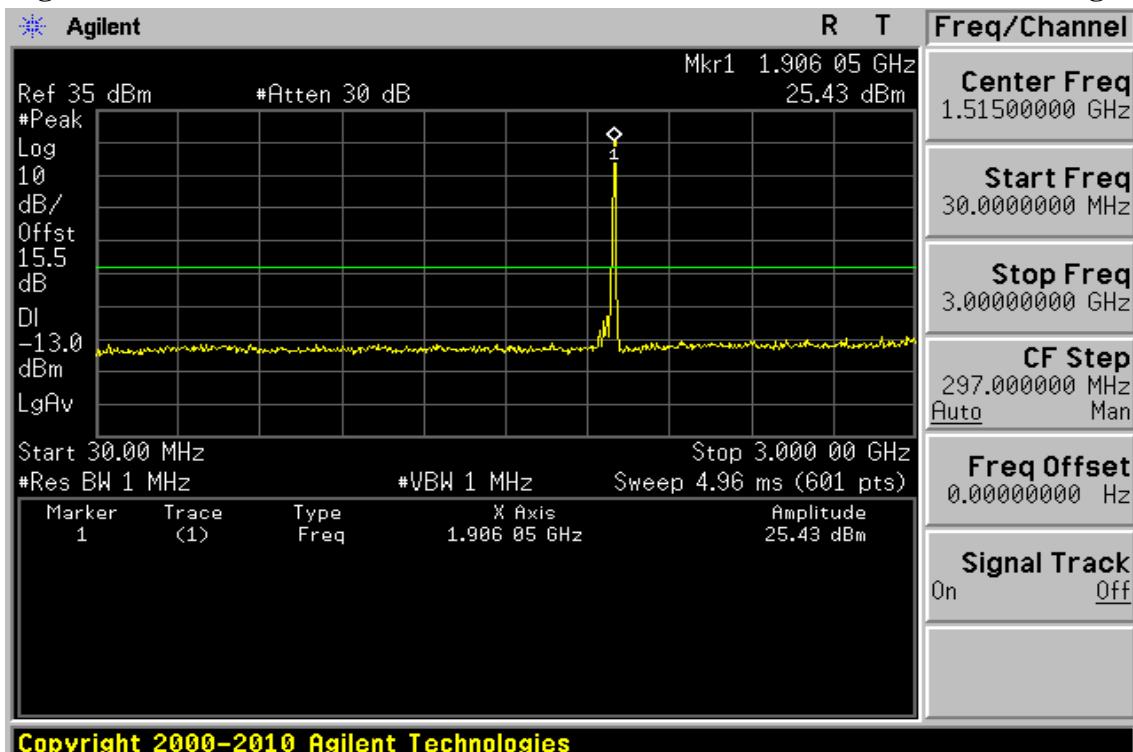
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Figure 9-23: Out of Band emission at antenna terminals—HSDPA II Channel Highest



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Figure 9-24: Bad edge emission at antenna terminals –HSDPA II Channel Lowest

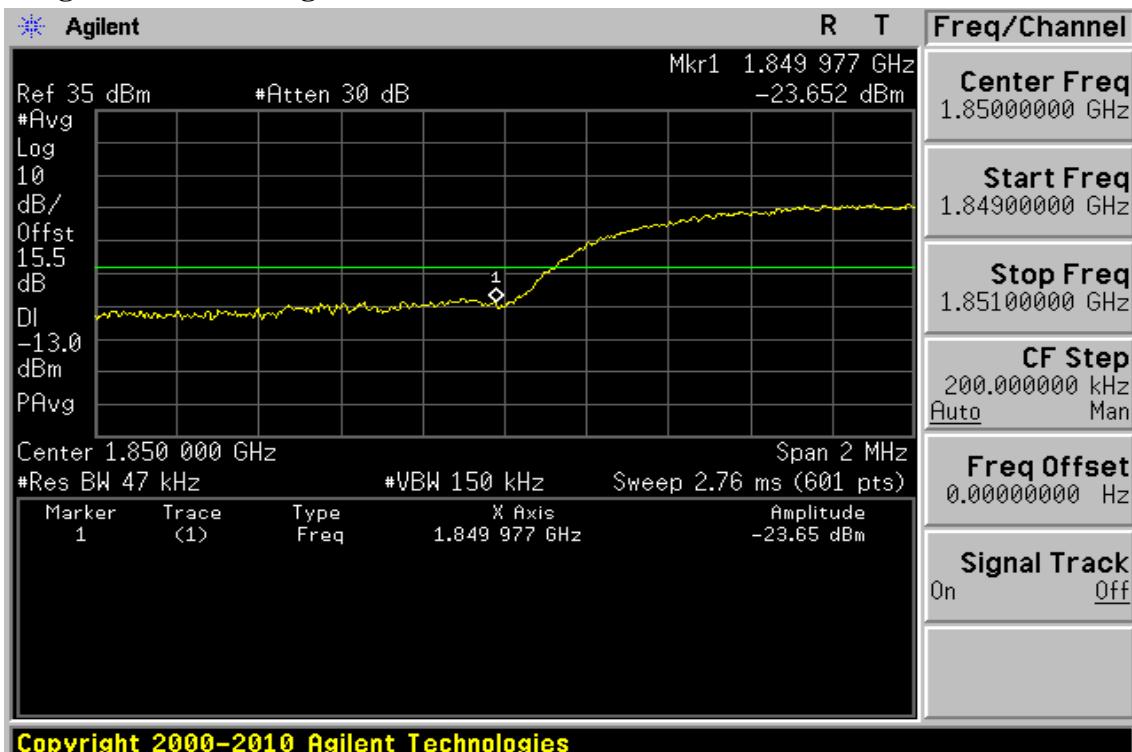
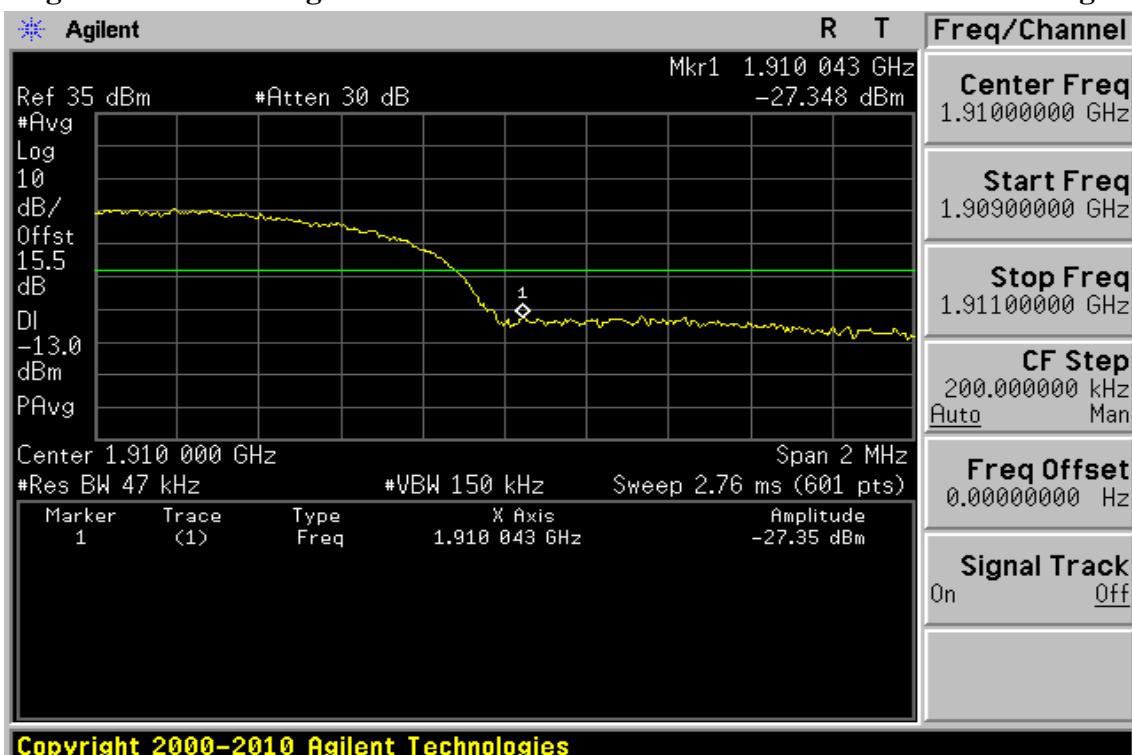


Figure 9-25: Band edge emission at antenna terminals –HSDPA II Channel Highest



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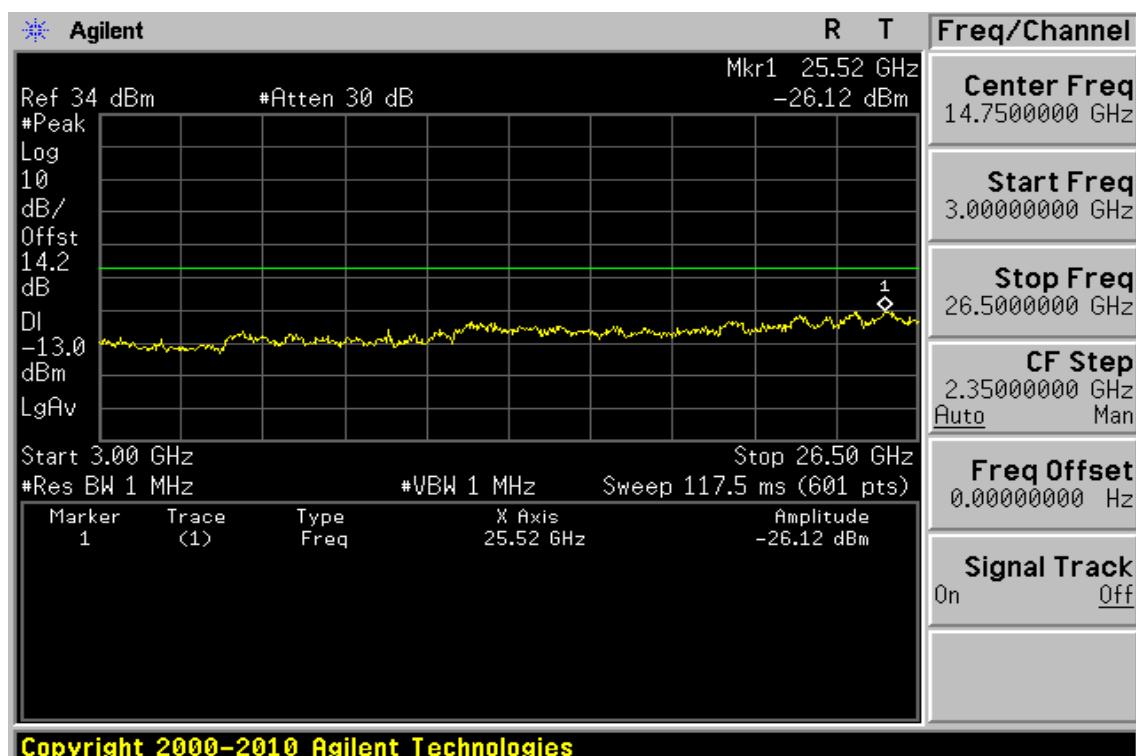
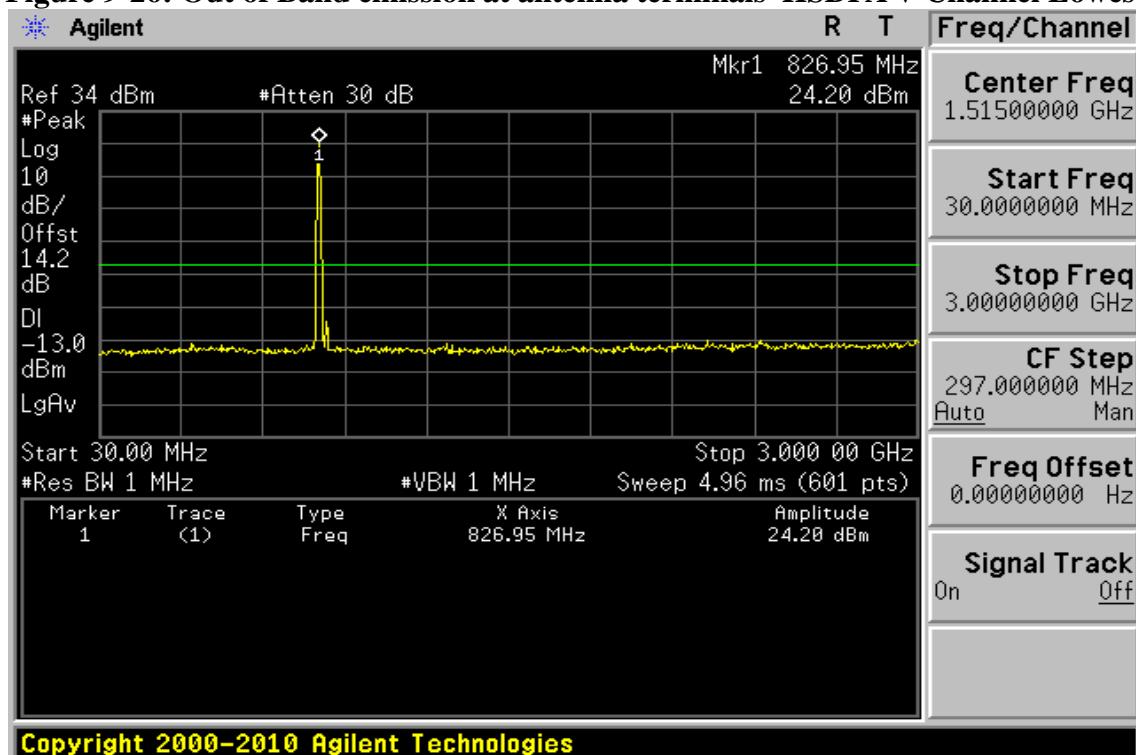
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Figure 9-26: Out of Band emission at antenna terminals—HSDPA V Channel Lowest



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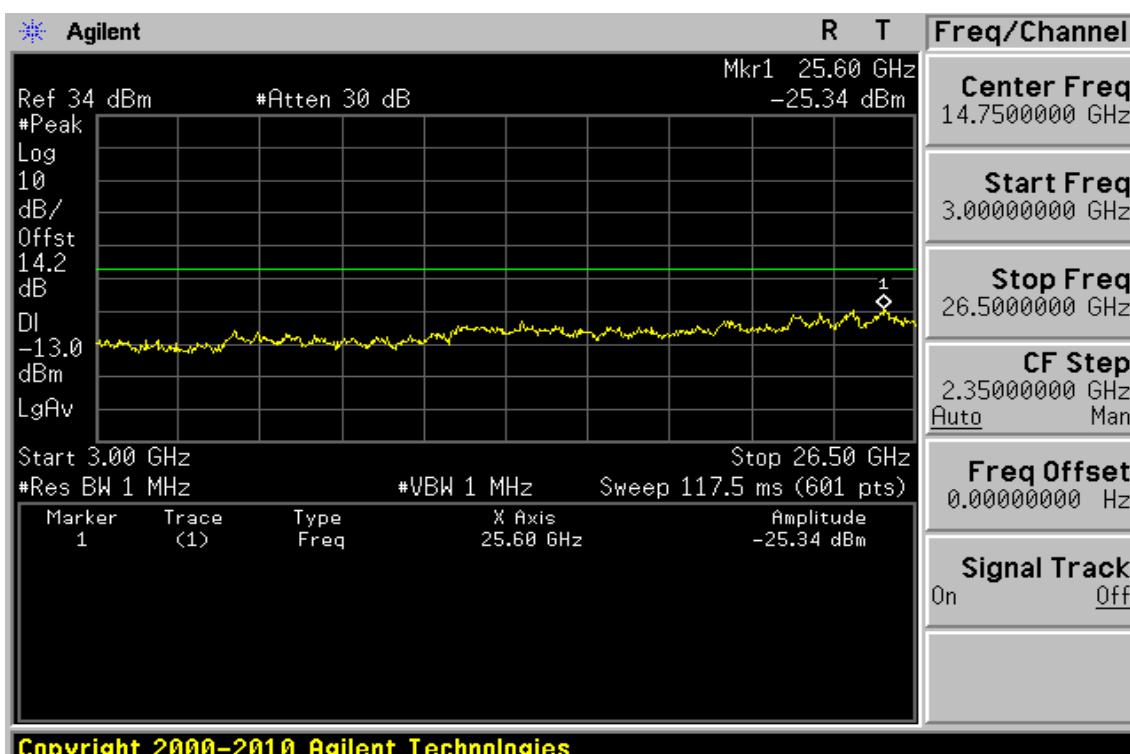
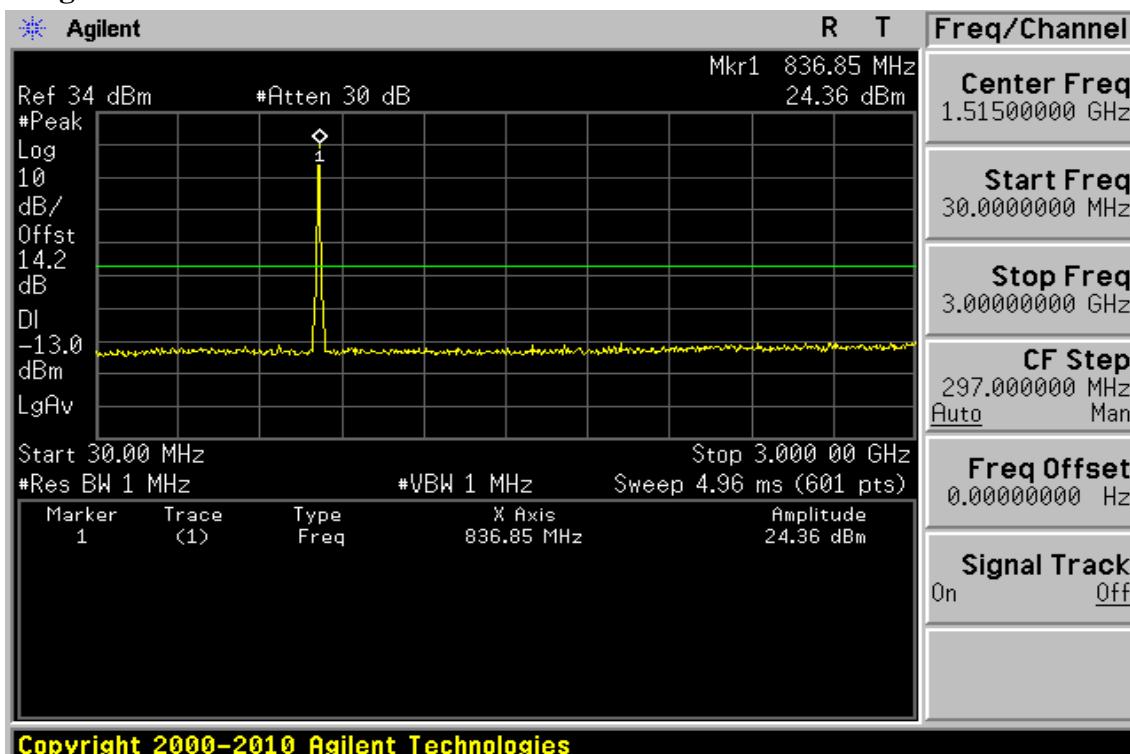
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Figure 9-27: Out of Band emission at antenna terminals –HSDPA V Channel Mid



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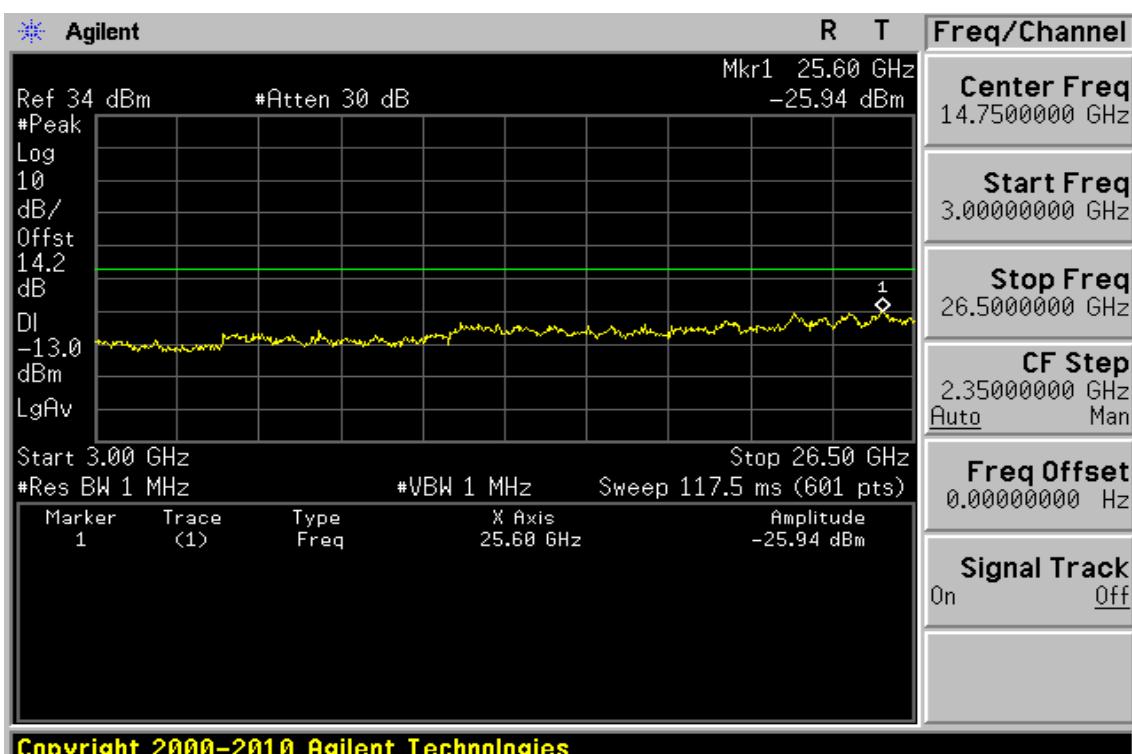
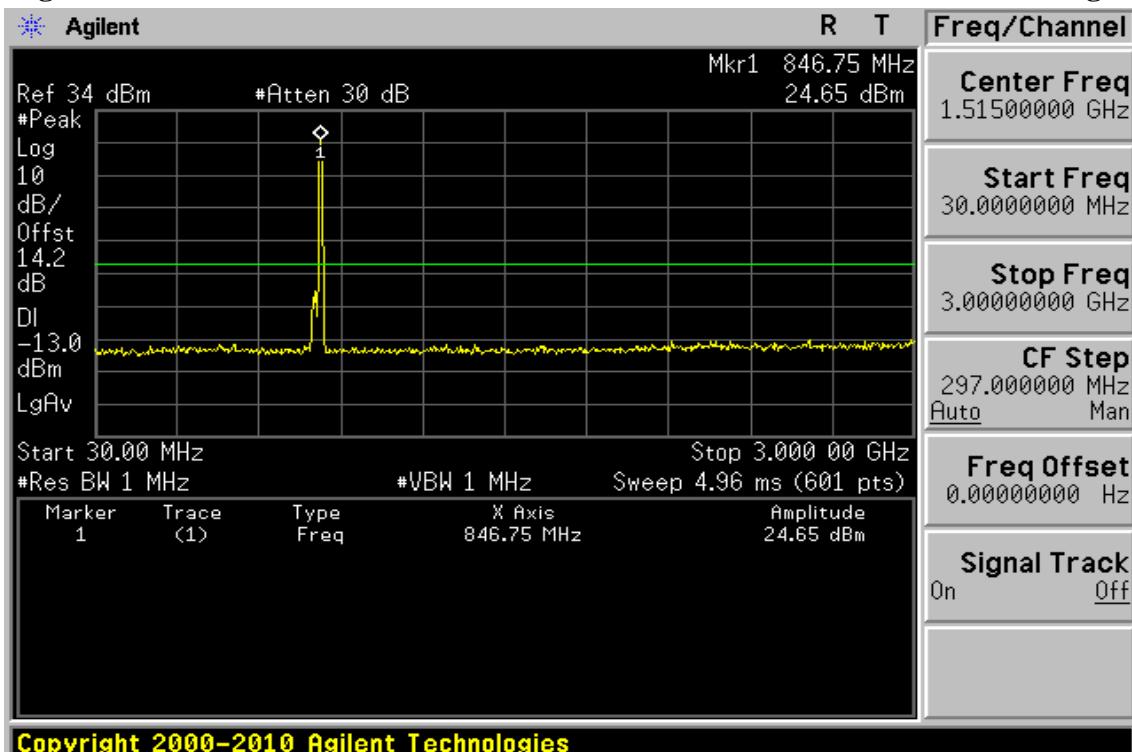
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Figure 9-28: Out of Band emission at antenna terminals—HSDPA V Channel Highest



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Figure 9-29: Bad edge emission at antenna terminals –HSDPA V Channel Lowest

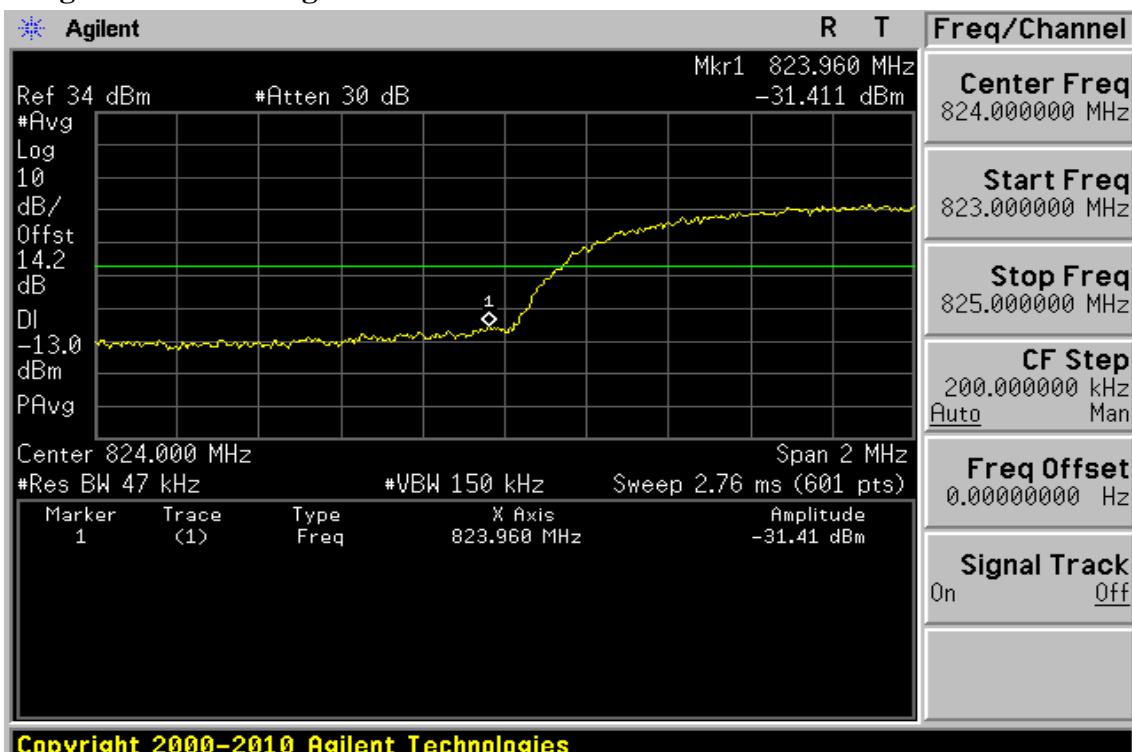
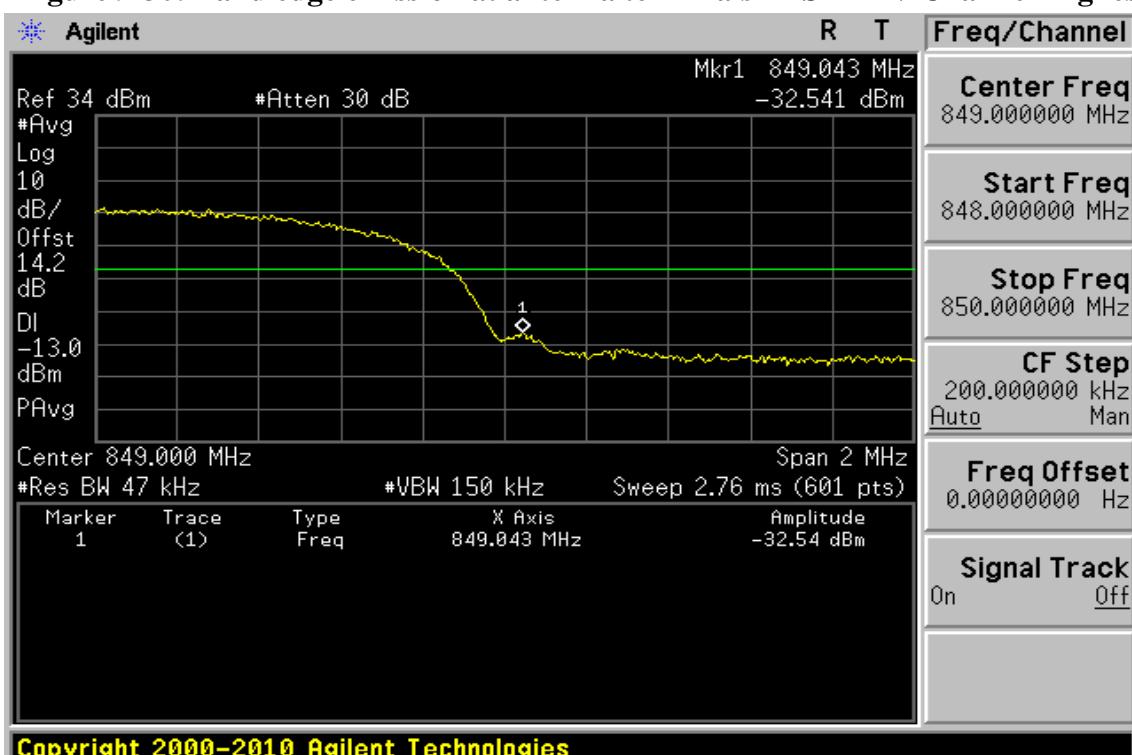


Figure 9-30: Band edge emission at antenna terminals –HSDPA V Channel Highest



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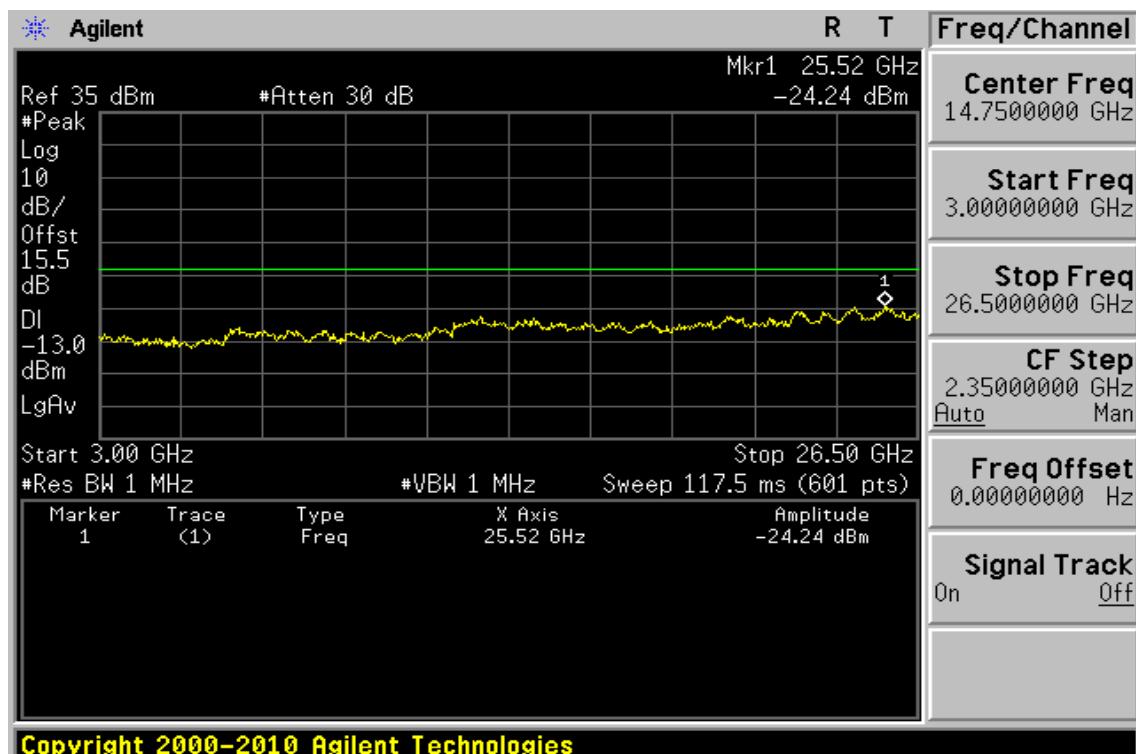
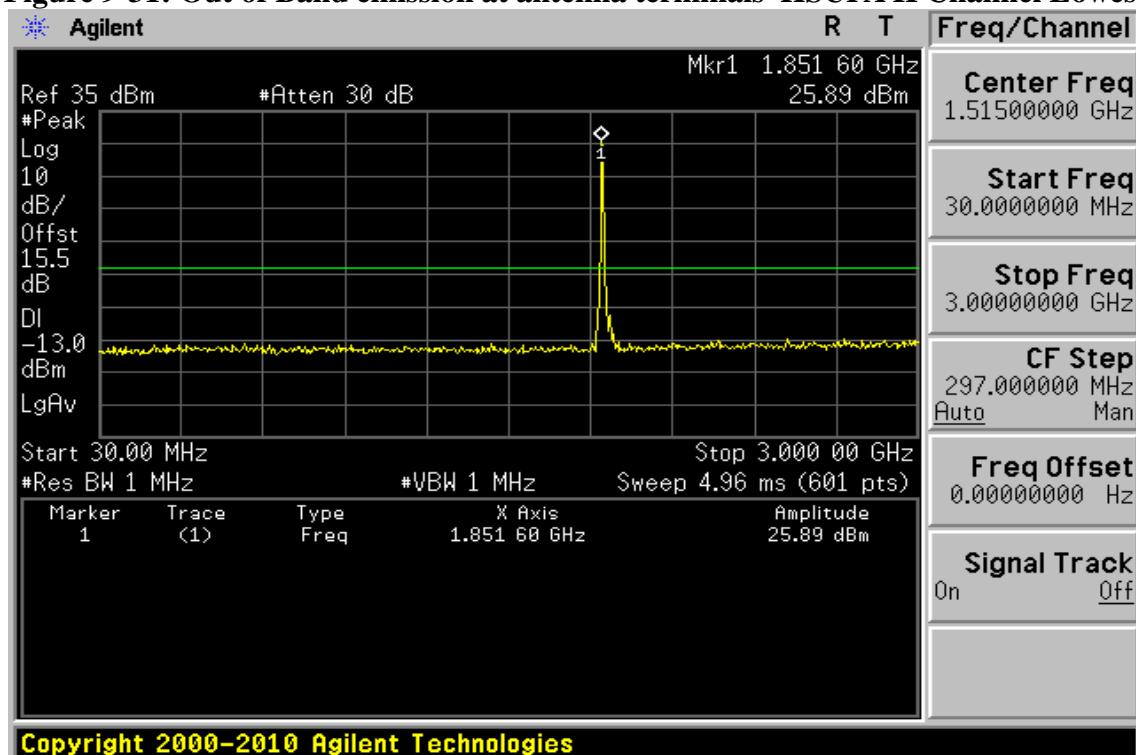
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Figure 9-31: Out of Band emission at antenna terminals—HSUPA II Channel Lowest



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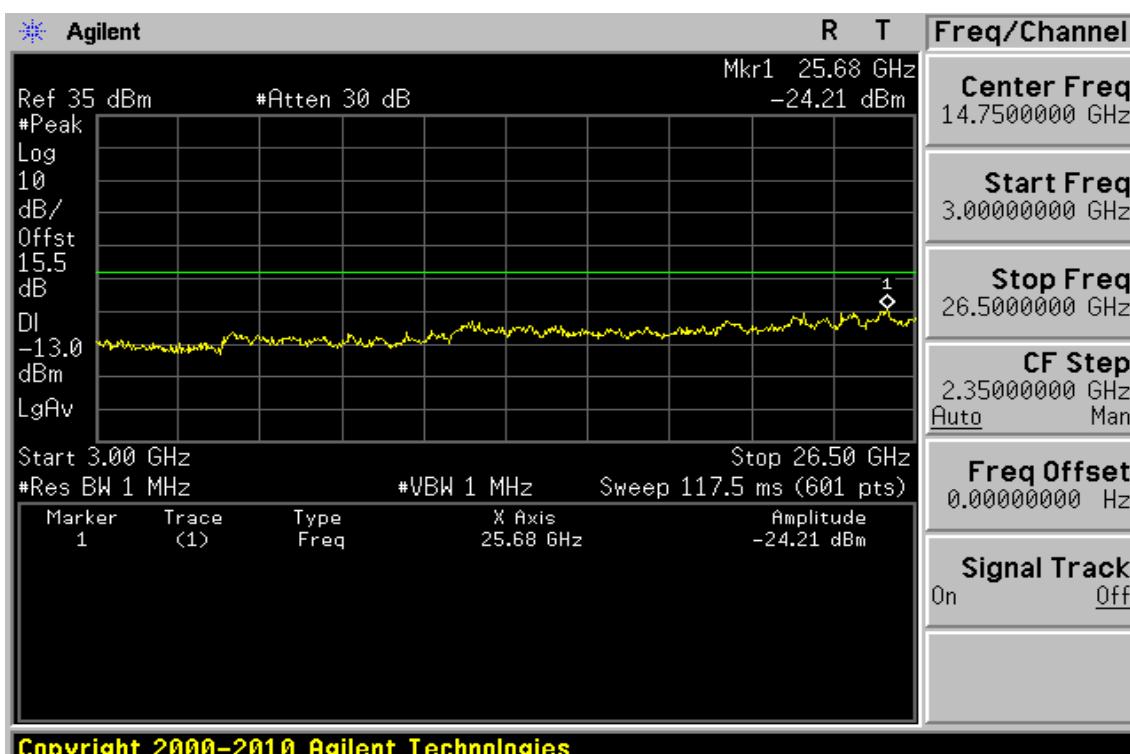
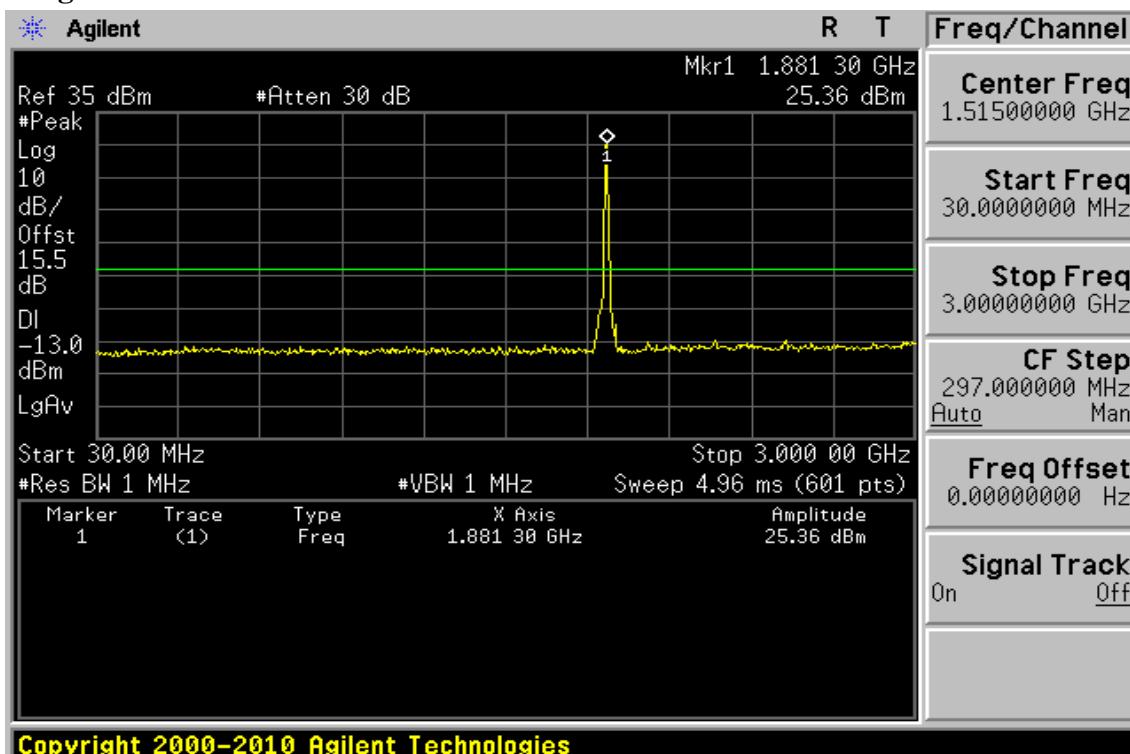
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Figure 9-32: Out of Band emission at antenna terminals –HSUPA II Channel Mid



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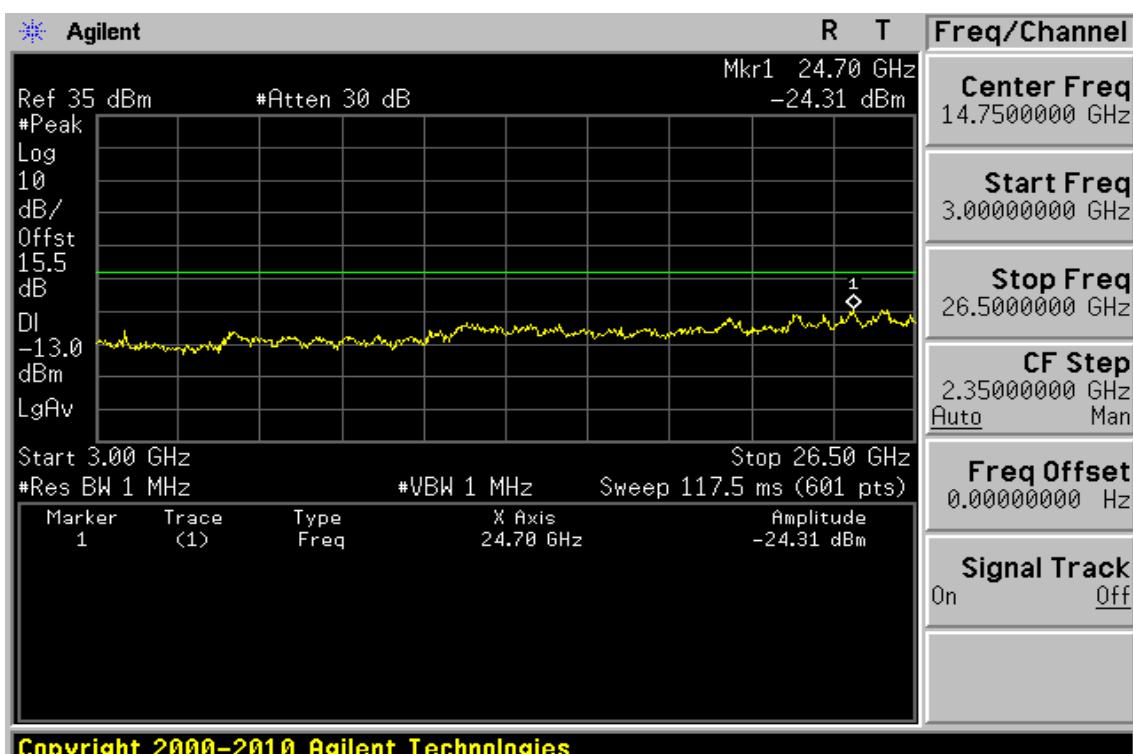
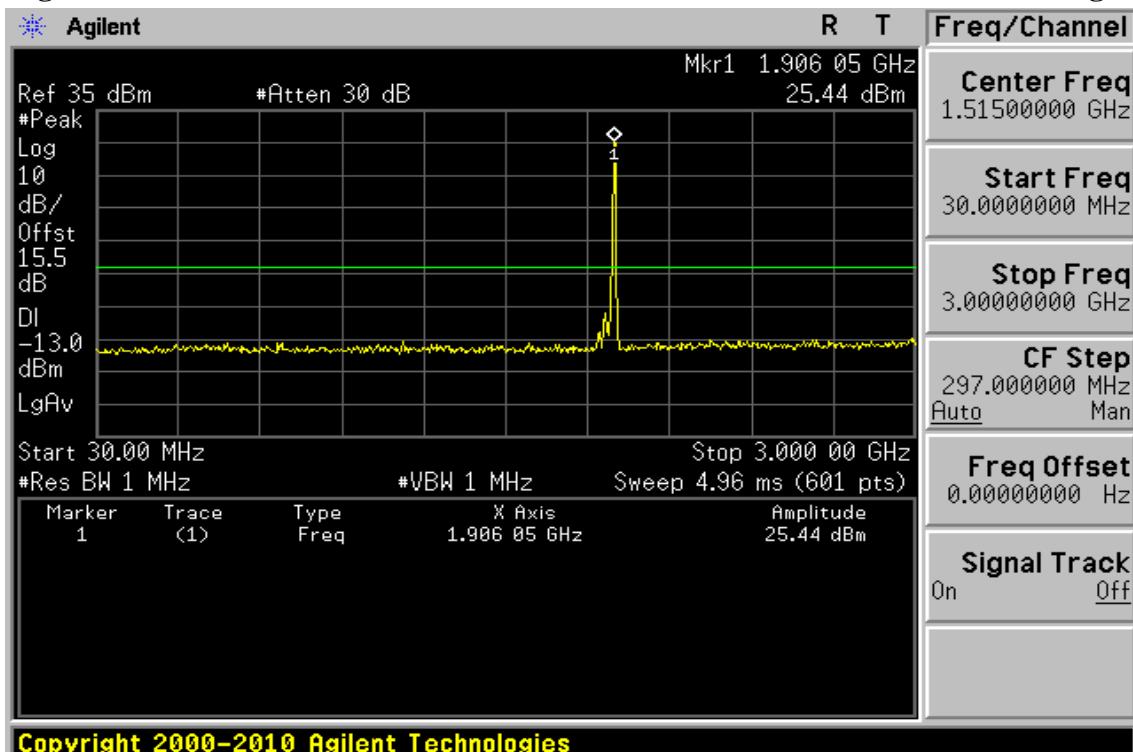
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Figure 9-33: Out of Band emission at antenna terminals—HSUPA II Channel Highest



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Figure 9-34: Bad edge emission at antenna terminals –HSUPA II Channel Lowest

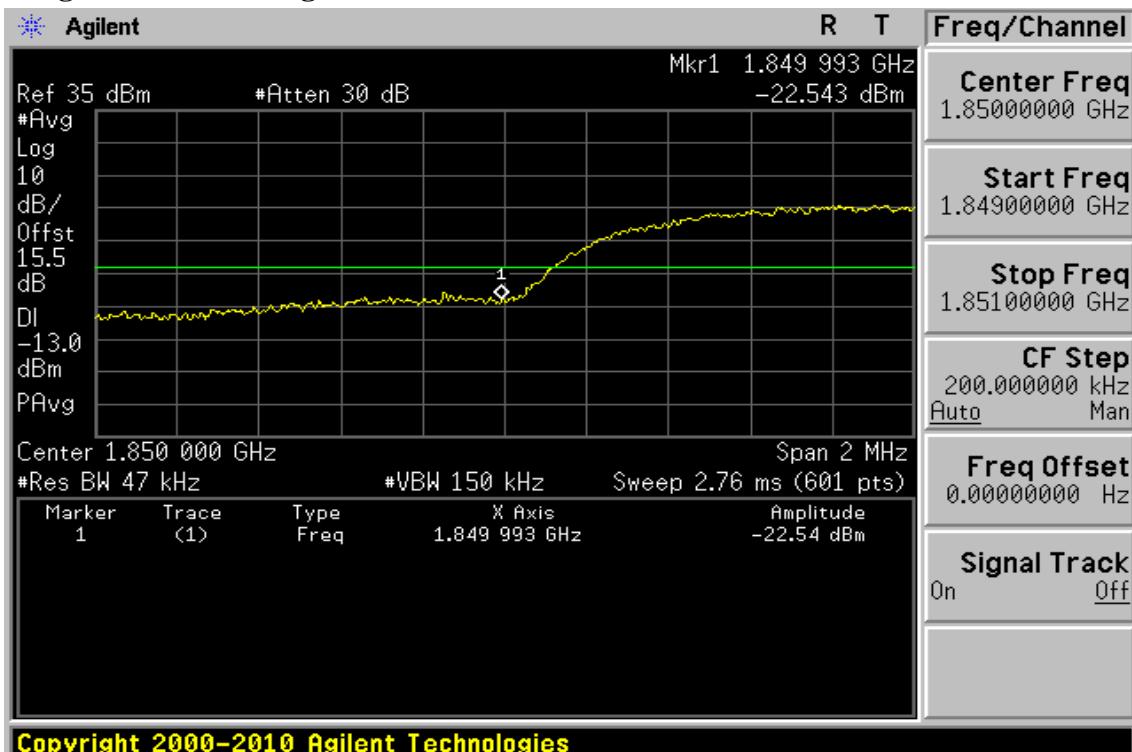


Figure 9-35: Band edge emission at antenna terminals –HSUPA II Channel Highest



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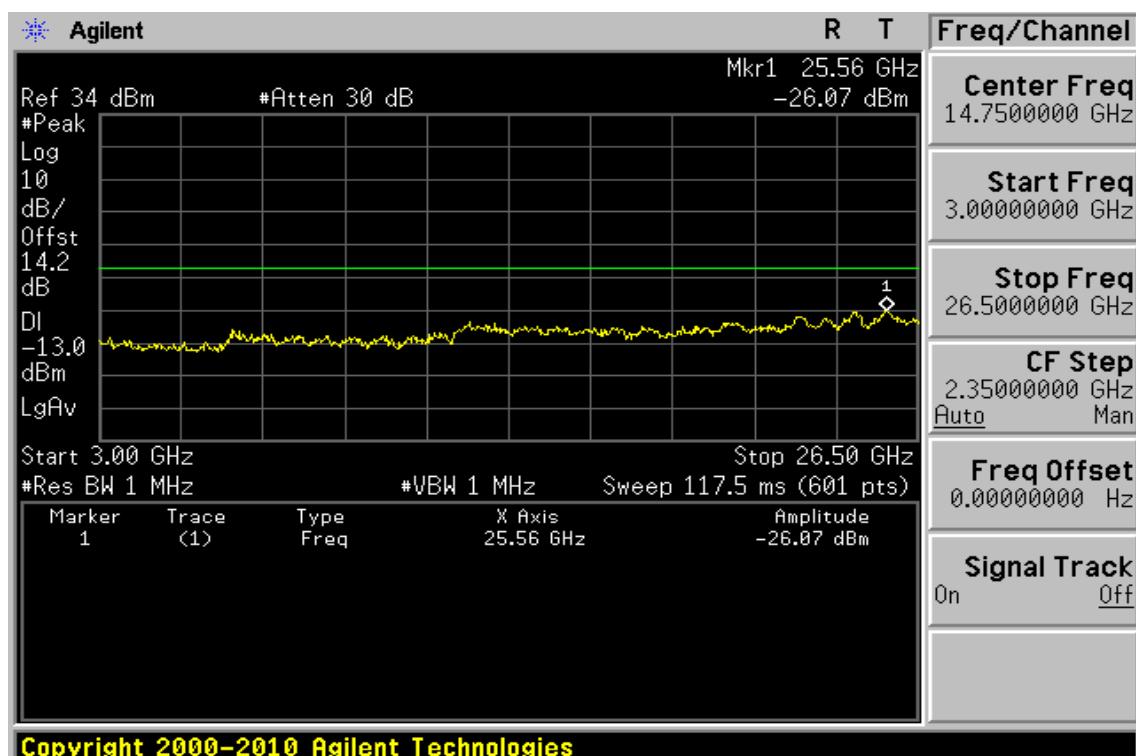
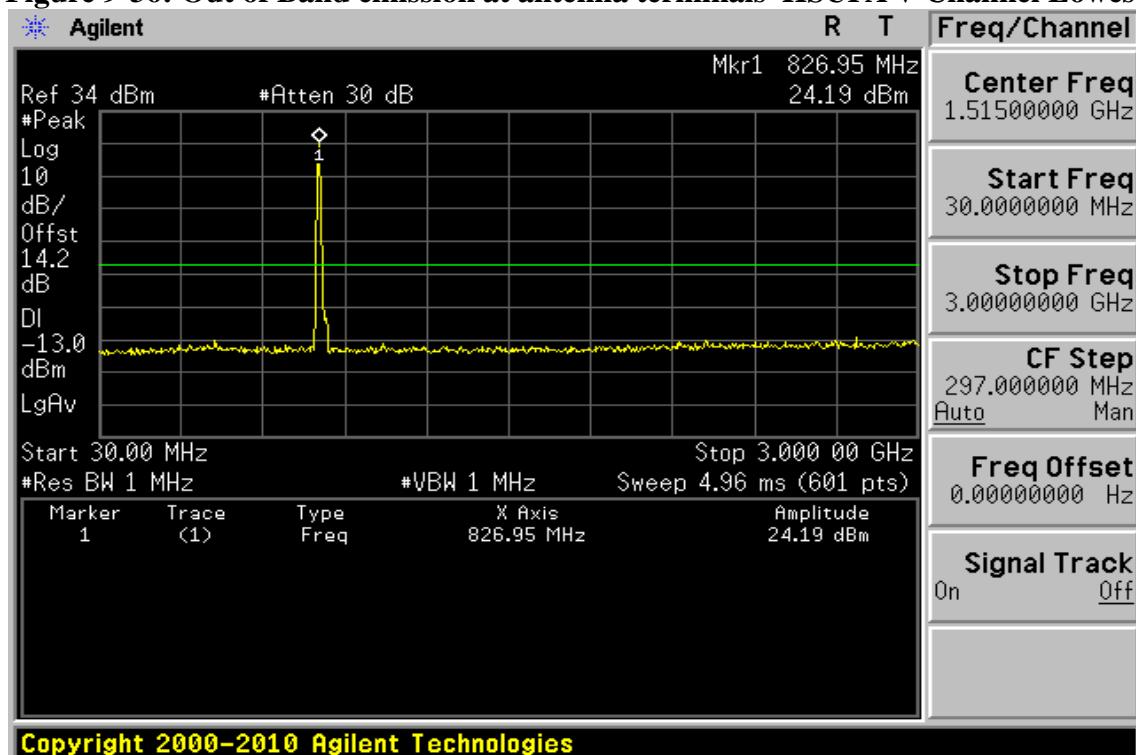
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Figure 9-36: Out of Band emission at antenna terminals—HSUPA V Channel Lowest



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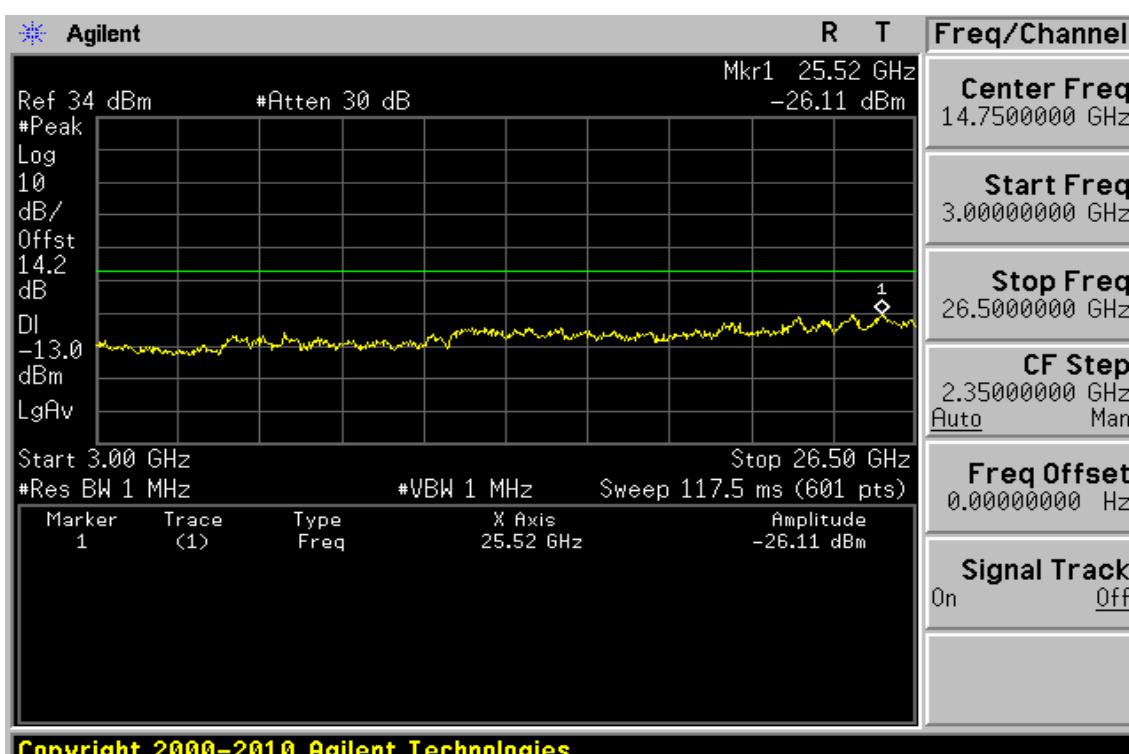
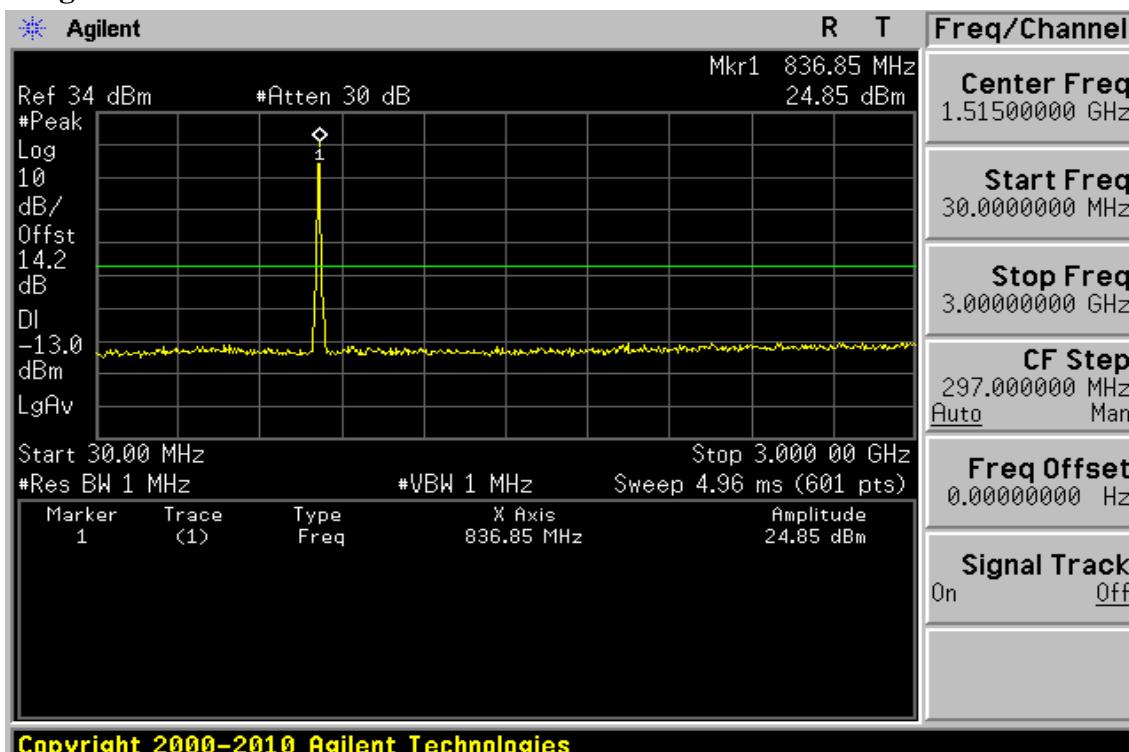
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Figure 9-37: Out of Band emission at antenna terminals –HSUPA V Channel Mid



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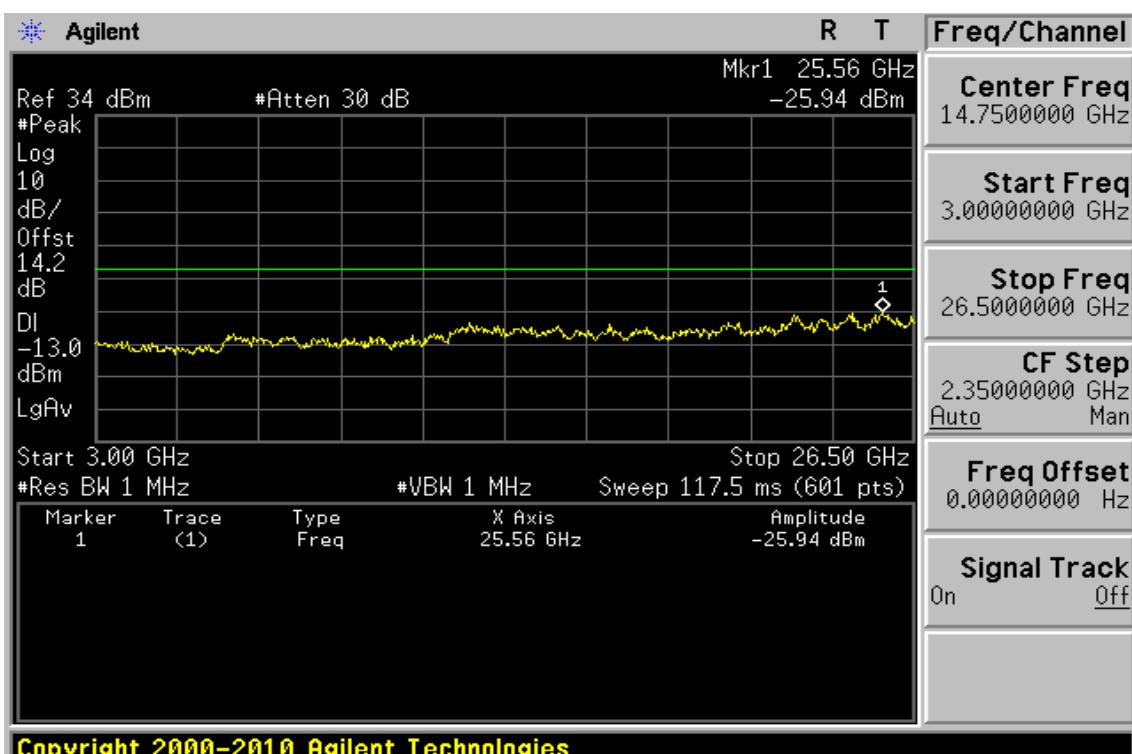
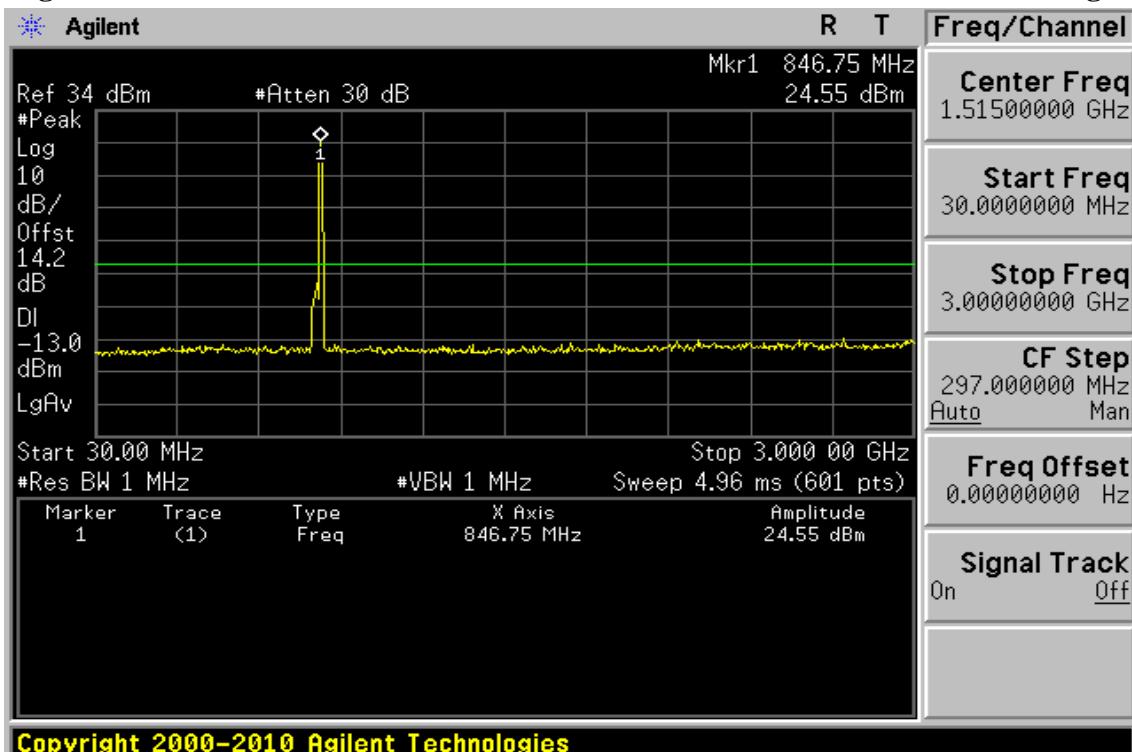
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Figure 9-38: Out of Band emission at antenna terminals—HSUPA V Channel Highest



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Figure 9-39: Bad edge emission at antenna terminals –HSUPA V Channel Lowest

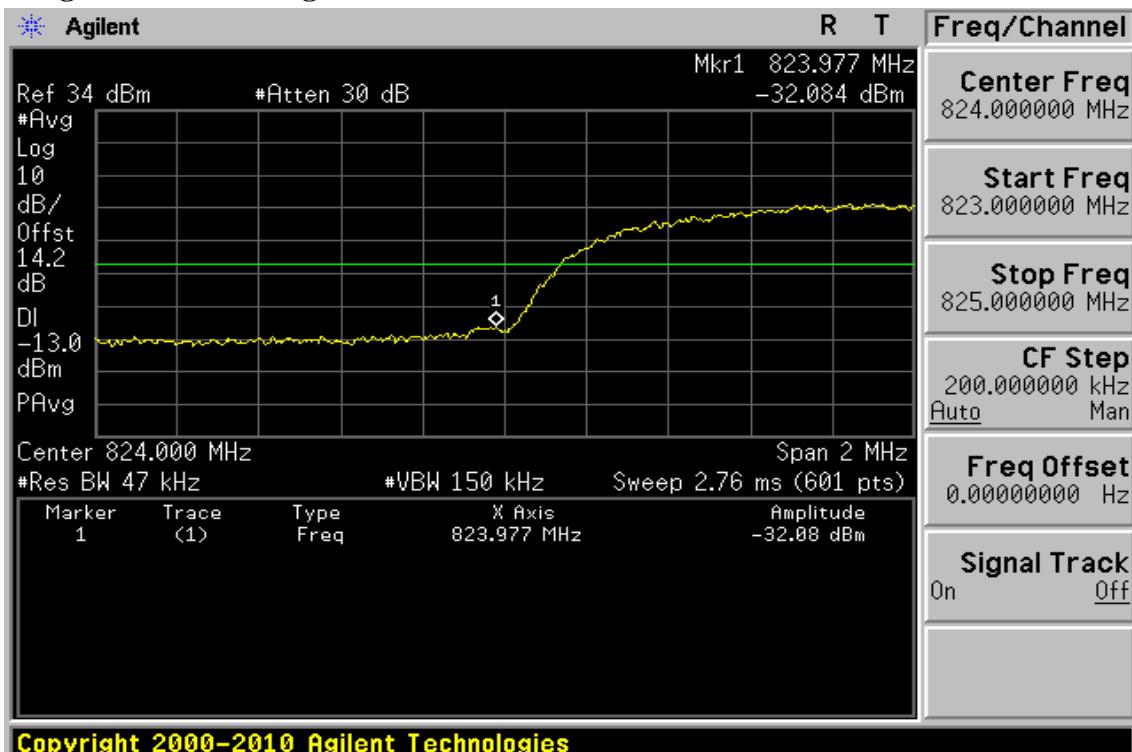
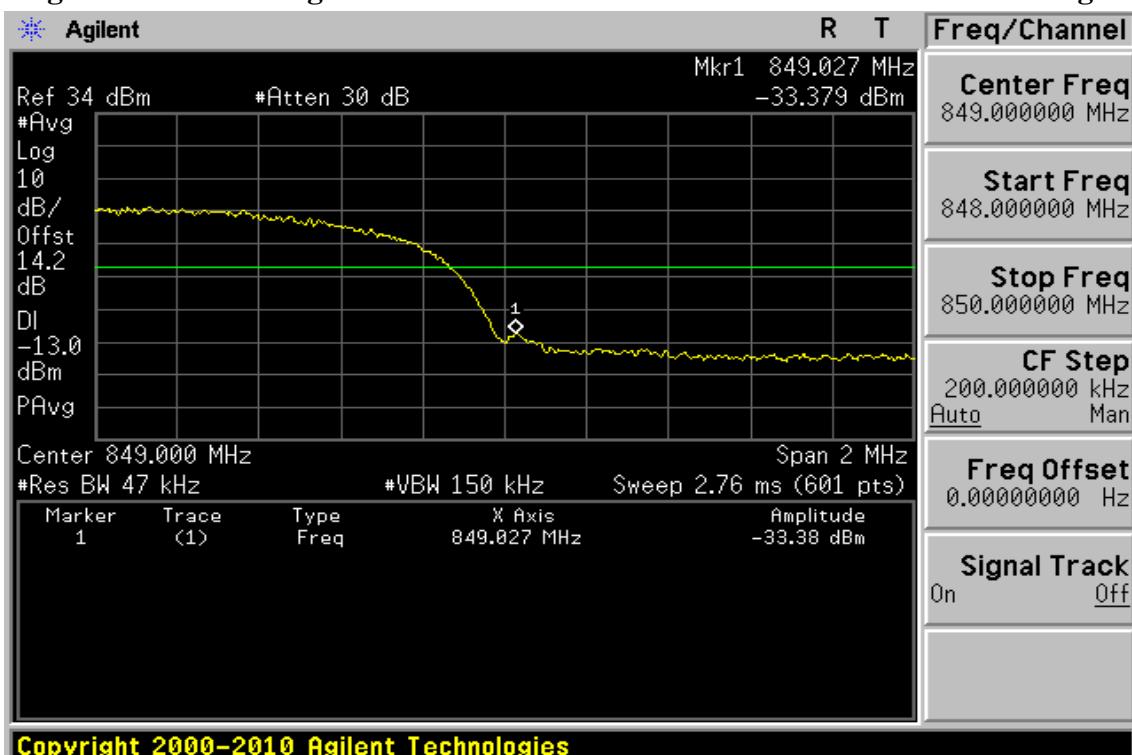


Figure 9-40: Band edge emission at antenna terminals –HSUPA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

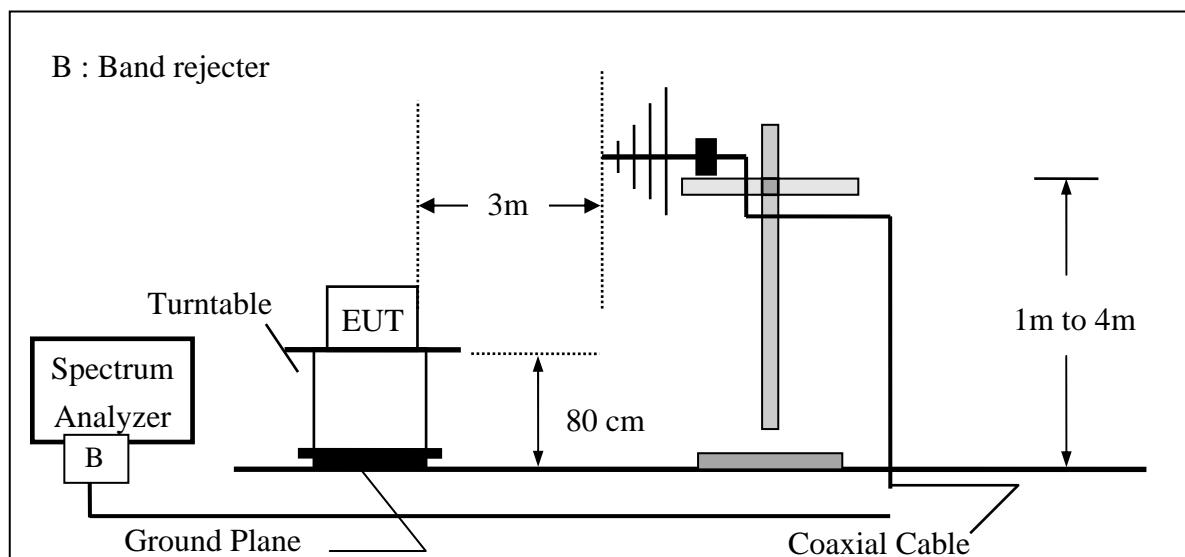
10.1. Standard Applicable:

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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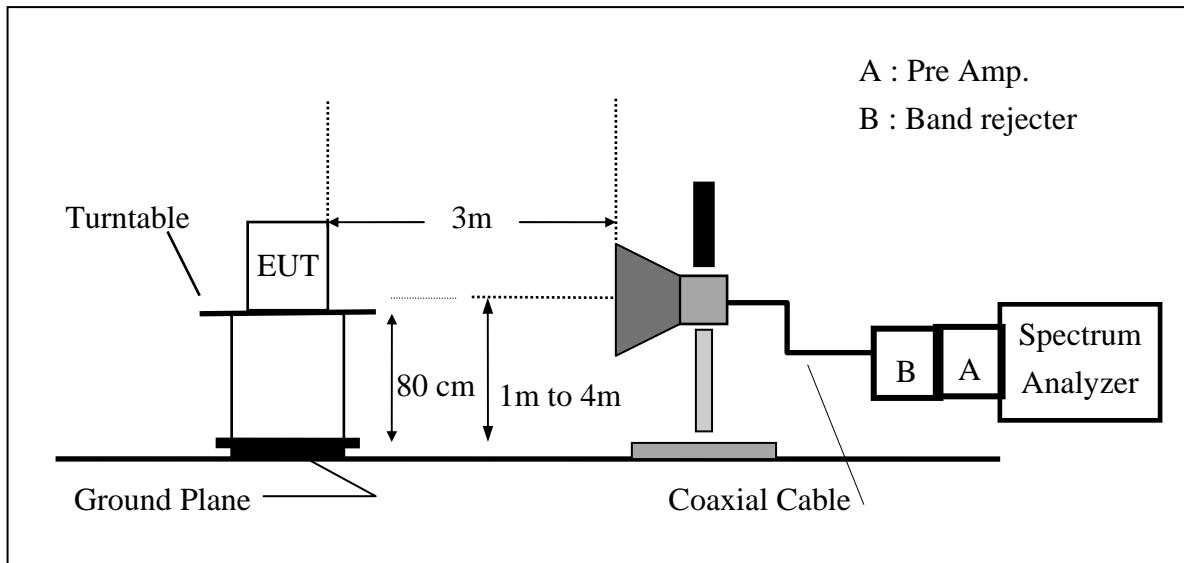
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Radiated Emission Test Set-UP Frequency Over 1 GHz

**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 frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

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

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

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

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 Mode : TX CH Low Mode Test Date: Jan. 27, 2011
 Fundamental Frequency : 824.20 MHz Test By: Bondi
 Temperature : 25°C Pol: Ver
 Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	48.05	V	-56.09	-6.43	0.94	-63.46	-13.00	-50.46
146.40	32.62	V	-65.00	-7.80	1.57	-74.37	-13.00	-61.37
322.64	33.48	V	-64.49	-7.79	2.26	-74.54	-13.00	-61.54
485.90	32.59	V	-61.49	-7.71	2.76	-71.97	-13.00	-58.97
697.36	33.67	V	-55.74	-7.86	3.28	-66.88	-13.00	-53.88
959.26	33.89	V	-50.52	-8.00	3.91	-62.42	-13.00	-49.42
1648.40	53.55	V	-51.03	9.29	5.23	-46.97	-13.00	-33.97
2472.60	---	V		10.08	6.53		-13.00	
3296.80	---	V		12.17	7.71		-13.00	
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH Low Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 824.20 MHz Test By: Bondi
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
34.85	43.82	H	-60.58	-5.07	0.92	-66.56	-13.00	-53.56
156.10	33.48	H	-64.76	-7.80	1.60	-74.17	-13.00	-61.17
330.70	32.81	H	-64.57	-7.75	2.29	-74.60	-13.00	-61.60
478.14	32.58	H	-61.06	-7.71	2.74	-71.51	-13.00	-58.51
652.74	35.04	H	-54.57	-7.81	3.17	-65.55	-13.00	-52.55
968.96	33.25	H	-50.85	-8.00	3.94	-62.78	-13.00	-49.78
1648.40	51.89	H	-52.51	9.29	5.23	-48.45	-13.00	-35.45
2472.60	50.54	H	-50.37	10.08	6.53	-46.82	-13.00	-33.82
3296.80	---	H		12.17	7.71		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH Mid Mode

Test Date: Jan. 27, 2011

Fundamental Frequency : 836.60 MHz

Test By: Bondi

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	48.20	V	-56.50	-7.34	0.95	-64.79	-13.00	-51.79
156.10	33.05	V	-64.79	-7.80	1.60	-74.20	-13.00	-61.20
357.86	31.59	V	-65.71	-7.64	2.38	-75.73	-13.00	-62.73
497.54	32.22	V	-61.91	-7.72	2.79	-72.42	-13.00	-59.42
701.24	33.87	V	-55.51	-7.86	3.29	-66.67	-13.00	-53.67
975.75	33.28	V	-50.75	-7.99	3.96	-62.70	-13.00	-49.70
1673.20	50.58	V	-53.98	9.36	5.27	-49.88	-13.00	-36.88
2509.80	---	V		10.09	6.58		-13.00	
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Remark:

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH Mid Mode

Test Date: Jan. 27, 2011

Fundamental Frequency : 836.60 MHz

Test By: Bondi

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
34.85	45.26	H	-59.14	-5.07	0.92	-65.12	-13.00	-52.12
138.64	35.53	H	-63.43	-7.79	1.54	-72.76	-13.00	-59.76
352.04	32.09	H	-65.08	-7.64	2.37	-75.09	-13.00	-62.09
468.44	33.83	H	-59.90	-7.71	2.71	-70.32	-13.00	-57.32
699.30	33.46	H	-54.20	-7.86	3.29	-65.35	-13.00	-52.35
951.50	33.94	H	-50.26	-8.00	3.88	-62.15	-13.00	-49.15
1673.20	50.19	H	-54.19	9.36	5.27	-50.09	-13.00	-37.09
2509.80	44.79	H	-55.91	10.09	6.58	-52.41	-13.00	-39.41
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH High Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 848.80 MHz Test By: Bondi
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	48.10	V	-56.04	-6.43	0.94	-63.41	-13.00	-50.41
190.05	37.97	V	-62.92	-7.83	1.69	-72.43	-13.00	-59.43
328.76	33.03	V	-64.86	-7.76	2.28	-74.90	-13.00	-61.90
461.65	33.23	V	-60.75	-7.70	2.69	-71.15	-13.00	-58.15
701.24	33.55	V	-55.83	-7.86	3.29	-66.99	-13.00	-53.99
934.04	34.13	V	-50.53	-7.98	3.85	-62.37	-13.00	-49.37
1697.60	50.75	V	-53.79	9.44	5.31	-49.66	-13.00	-36.66
2546.40	---	V		10.20	6.63		-13.00	
3395.20	---	V		12.38	7.87		-13.00	
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Member of SGS Group

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH High Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 848.80 MHz Test By: Bondi
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	43.50	H	-61.80	-6.43	0.94	-69.17	-13.00	-56.17
154.16	32.36	H	-65.73	-7.80	1.60	-75.14	-13.00	-62.14
321.00	33.06	H	-64.41	-7.80	2.25	-74.46	-13.00	-61.46
493.66	32.72	H	-60.79	-7.72	2.78	-71.29	-13.00	-58.29
691.54	34.24	H	-53.74	-7.85	3.27	-64.86	-13.00	-51.86
959.26	33.37	H	-50.78	-8.00	3.91	-62.69	-13.00	-49.69
1697.60	48.27	H	-56.08	9.44	5.31	-51.95	-13.00	-38.95
2546.40	44.75	H	-55.85	10.20	6.63	-52.29	-13.00	-39.29
3395.20	---	H		12.38	7.87		-13.00	
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dBd/dBi) - Cable loss (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Low Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 1850.20MHz Test By: Bondi
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	47.51	V	-57.19	-7.34	0.95	-65.48	-13.00	-52.48
144.46	34.72	V	-63.08	-7.80	1.56	-72.44	-13.00	-59.44
338.46	32.22	V	-65.55	-7.70	2.32	-75.57	-13.00	-62.57
466.50	31.93	V	-62.07	-7.71	2.71	-72.48	-13.00	-59.48
658.56	32.63	V	-56.38	-7.82	3.18	-67.38	-13.00	-54.38
835.10	32.99	V	-53.28	-7.88	3.65	-64.81	-13.00	-51.81
3700.40	46.97	V	-50.96	12.61	8.31	-46.66	-13.00	-33.66
5550.60	---	V		13.23	10.33		-13.00	
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Low Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 1850.20MHz Test By: Bondi
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
34.85	43.02	H	-61.38	-5.07	0.92	-67.36	-13.00	-54.36
156.10	33.28	H	-64.96	-7.80	1.60	-74.37	-13.00	-61.37
348.16	32.35	H	-64.87	-7.65	2.35	-74.87	-13.00	-61.87
476.20	32.10	H	-61.56	-7.71	2.73	-72.00	-13.00	-59.00
658.56	32.62	H	-56.74	-7.82	3.18	-67.74	-13.00	-54.74
837.04	32.43	H	-53.80	-7.88	3.65	-65.33	-13.00	-52.33
3700.40	46.81	H	-51.23	12.61	8.31	-46.93	-13.00	-33.93
5550.60	---	H		13.23	10.33		-13.00	
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Mid Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 1880MHz Test By: Bondi
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	48.15	V	-55.99	-6.43	0.94	-63.36	-13.00	-50.36
151.25	32.69	V	-64.71	-7.80	1.59	-74.11	-13.00	-61.11
338.46	32.33	V	-65.44	-7.70	2.32	-75.46	-13.00	-62.46
500.45	31.86	V	-62.27	-7.72	2.80	-72.79	-13.00	-59.79
660.50	32.75	V	-56.28	-7.82	3.19	-67.29	-13.00	-54.29
854.50	32.21	V	-53.78	-7.89	3.69	-65.35	-13.00	-52.35
3760.00	47.46	V	-50.20	12.60	8.39	-45.98	-13.00	-32.98
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Mid Mode

Test Date: Jan. 27, 2011

Fundamental Frequency : 1880MHz

Test By: Bondi

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
37.76	42.54	H	-60.95	-3.70	0.90	-65.56	-13.00	-52.56
128.94	34.76	H	-65.21	-7.78	1.49	-74.49	-13.00	-61.49
330.70	32.62	H	-64.76	-7.75	2.29	-74.79	-13.00	-61.79
481.05	32.32	H	-61.30	-7.71	2.75	-71.76	-13.00	-58.76
660.50	32.64	H	-56.64	-7.82	3.19	-67.65	-13.00	-54.65
854.50	32.18	H	-53.89	-7.89	3.69	-65.47	-13.00	-52.47
3760.00	48.83	H	-48.94	12.60	8.39	-44.73	-13.00	-31.73
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH High Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 1909.8 MHz Test By: Bondi
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	50.26	V	-53.88	-6.43	0.94	-61.25	-13.00	-48.25
148.34	32.97	V	-64.47	-7.80	1.58	-73.85	-13.00	-60.85
253.10	35.95	V	-63.84	-7.89	2.00	-73.73	-13.00	-60.73
478.14	32.35	V	-61.70	-7.71	2.74	-72.15	-13.00	-59.15
704.15	32.27	V	-56.98	-7.86	3.30	-68.14	-13.00	-55.14
856.44	32.36	V	-53.57	-7.89	3.69	-65.16	-13.00	-52.16
3819.60	45.68	V	-51.71	12.60	8.47	-47.58	-13.00	-34.58
5729.40	---	V		13.49	10.50		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
9549.00	---	V		11.95	13.74		-13.00	
11458.80	---	V		12.17	15.43		-13.00	
13368.60	---	V		12.97	16.82		-13.00	
15278.40	---	V		15.00	18.29		-13.00	
17188.20	---	V		14.47	19.52		-13.00	
19098.00	---	V		18.66	20.78		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH High Mode Test Date: Jan. 27, 2011
Fundamental Frequency : 1909.8 MHz Test By: Bondi
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
34.85	44.56	H	-59.84	-5.07	0.92	-65.82	-13.00	-52.82
156.10	32.33	H	-65.91	-7.80	1.60	-75.32	-13.00	-62.32
348.16	32.11	H	-65.11	-7.65	2.35	-75.11	-13.00	-62.11
449.04	32.89	H	-61.05	-7.70	2.66	-71.41	-13.00	-58.41
648.86	32.92	H	-56.82	-7.81	3.16	-67.79	-13.00	-54.79
852.56	32.17	H	-53.95	-7.88	3.69	-65.52	-13.00	-52.52
3819.60	50.12	H	-47.39	12.60	8.47	-43.25	-13.00	-30.25
5729.40	---	H		13.49	10.50		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
9549.00	---	H		11.95	13.74		-13.00	
11458.80	---	H		12.17	15.43		-13.00	
13368.60	---	H		12.97	16.82		-13.00	
15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
19098.00	---	H		18.66	20.78		-13.00	

Remark:

1 The emission behaviors belong to narrowband spurious emission.

2 Remark"---" means that the emission level is too low to be measured

3 The result basic equation calculation is as follows:

4 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band :HSUPA B2 Test Date :2012-04-27
ARFCN :CH 9262 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1852.4 MHz Engineer :Jimmy
Operation Mode :TX LOW
EUT Pol. :E2 plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
138.64	S	-87.91	-83.86	-1.26	-2.79	-13.00	-74.91	
217.21	S	-85.59	-87.29	4.84	-3.14	-13.00	-72.59	
251.16	S	-85.18	-86.52	4.57	-3.23	-13.00	-72.18	
286.08	S	-84.63	-85.91	4.50	-3.22	-13.00	-71.63	
357.86	S	-84.67	-85.97	4.73	-3.43	-13.00	-71.67	
670.20	S	-80.00	-80.04	4.13	-4.10	-13.00	-67.00	
3704.80	H	-46.59	-47.02	7.40	-6.98	-13.00	-33.59	
5557.20	H	---						
7409.60	H	---						
9262.00	H	---						
11114.40	H	---						
12966.80	H	---						
14819.20	H	---						
16671.60	H	---						
18524.00	H	---						

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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Operation Band :HSUPA B2
 ARFCN :CH 9262
 Fundamental Frequency :1852.4 MHz
 Operation Mode :TX LOW
 EUT Pol. :E2 plan

Test Date :2012-04-27
 Temp./Humi. :27 deg_C / 66 RH
 Engineer :Jimmy

Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
138.64	S	-89.05	-85.01	-1.26	-2.79	-13.00	-76.05	
214.30	S	-91.11	-92.80	4.82	-3.14	-13.00	-78.11	
257.95	S	-90.47	-91.87	4.67	-3.27	-13.00	-77.47	
286.08	S	-86.06	-87.34	4.50	-3.22	-13.00	-73.06	
354.95	S	-85.65	-86.98	4.75	-3.43	-13.00	-72.65	
662.44	S	-82.17	-82.15	4.13	-4.14	-13.00	-69.17	
3704.80	H	-48.07	-47.99	6.90	-6.98	-13.00	-35.07	
5557.20	H	---						
7409.60	H	---						
9262.00	H	---						
11114.40	H	---						
12966.80	H	---						
14819.20	H	---						
16671.60	H	---						
18524.00	H	---						

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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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FCC ID: BCZ-ZVA

Report No.: EH/2012/40076

Issue Date: May. 02, 2012

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band :HSUPA B2 Test Date :2012-04-27
ARFCN :CH 9400 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX MID
EUT Pol. :E2 plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
144.46	S	-79.85	-75.83	-1.24	-2.79	-13.00	-66.85	
210.42	S	-86.08	-87.74	4.80	-3.14	-13.00	-73.08	
252.13	S	-85.97	-87.32	4.58	-3.23	-13.00	-72.97	
290.93	S	-85.15	-86.46	4.56	-3.25	-13.00	-72.15	
353.98	S	-85.43	-86.76	4.76	-3.43	-13.00	-72.43	
640.13	S	-79.62	-79.74	4.10	-3.98	-13.00	-66.62	
3760.00	H	-43.76	-44.07	7.42	-7.12	-13.00	-30.76	
5640.00	H	---						
7520.00	H	---						
9400.00	H	---						
11280.00	H	---						
13160.00	H	---						
15040.00	H	---						
16920.00	H	---						
18800.00	H	---						

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :HSUPA B2 Test Date :2012-04-27
ARFCN :CH 9400 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1880.0 MHz Engineer :Jimmy
Operation Mode :TX MID
EUT Pol. :E2 plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG				
144.46	S	-78.88	-74.86	-1.24	-2.79	-13.00	-65.88	
218.18	S	-90.61	-92.32	4.85	-3.14	-13.00	-77.61	
253.10	S	-90.07	-91.44	4.60	-3.23	-13.00	-77.07	
286.08	S	-86.88	-88.16	4.50	-3.22	-13.00	-73.88	
356.89	S	-85.32	-86.63	4.74	-3.43	-13.00	-72.32	
662.44	S	-81.77	-81.75	4.13	-4.14	-13.00	-68.77	
3760.00	H	-48.72	-48.43	6.83	-7.13	-13.00	-35.72	
5640.00	H	---						
7520.00	H	---						
9400.00	H	---						
11280.00	H	---						
13160.00	H	---						
15040.00	H	---						
16920.00	H	---						
18800.00	H	---						

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA II Mode

Operation Band :HSUPA B2 Test Date :2012-04-27
ARFCN :CH 9538 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :1907.6 MHz Engineer :Jimmy
Operation Mode :TX HIGH
EUT Pol. :E2 plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG		Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG Output Level dBm				
128.94	S	-88.29	-84.73	-0.78	-2.79	-13.00	-75.29	
228.85	S	-85.87	-87.35	4.65	-3.17	-13.00	-72.87	
259.89	S	-85.51	-86.94	4.70	-3.27	-13.00	-72.51	
291.90	S	-84.86	-86.18	4.57	-3.25	-13.00	-71.86	
343.31	S	-84.62	-85.92	4.75	-3.44	-13.00	-71.62	
662.44	S	-80.04	-80.02	4.13	-4.14	-13.00	-67.04	
3815.20	H	-41.30	-41.61	7.50	-7.20	-13.00	-28.30	
5722.80	H	---						
7630.40	H	---						
9538.00	H	---						
11445.60	H	---						
13353.20	H	---						
15260.80	H	---						
17168.40	H	---						
19076.00	H	---						

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"--" : denotes Noise Floor.

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Operation Band	:HSUPA B2	Test Date	:2012-04-27
ARFCN	:CH 9538	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Jimmy
Operation Mode	:TX HIGH		
EUT Pol.	:E2 plan	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm				
137.67	S	-88.42	-84.43	-1.20	-2.79	-13.00	-75.42
216.24	S	-91.12	-92.82	4.84	-3.14	-13.00	-78.12
255.04	S	-90.27	-91.63	4.63	-3.27	-13.00	-77.27
286.08	S	-86.55	-87.82	4.50	-3.22	-13.00	-73.55
353.01	S	-85.50	-86.84	4.77	-3.43	-13.00	-72.50
667.29	S	-81.79	-81.78	4.13	-4.14	-13.00	-68.79
3815.20	H	-46.96	-46.80	7.03	-7.20	-13.00	-33.96
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band :HSDPA B5 Test Date :2012-04-27
 ARFCN :CH 4132 Temp./Humi. :27 deg_C / 66 RH
 Fundamental Frequency :826.4 MHz Engineer :Jimmy
 Operation Mode :TX LOW
 EUT Pol. :E2 plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
135.73	S	-87.81	-83.95	-1.08	-2.79	-13.00	-74.81
225.94	S	-85.88	-87.42	4.72	-3.17	-13.00	-72.88
252.13	S	-85.21	-86.57	4.58	-3.23	-13.00	-72.21
282.20	S	-84.48	-85.71	4.45	-3.22	-13.00	-71.48
350.10	S	-85.49	-86.85	4.79	-3.43	-13.00	-72.49
667.29	S	-79.33	-79.32	4.13	-4.14	-13.00	-66.33
1652.80	H	-35.88	-32.97	2.38	-5.29	-13.00	-22.88
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-04-27
ARFCN	:CH 4132	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Jimmy
Operation Mode	:TX LOW		
EUT Pol.	:E2 plan	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
132.82	S	-88.89	-85.21	-0.89	-2.79	-13.00	-75.89
229.82	S	-89.97	-91.42	4.62	-3.17	-13.00	-76.97
254.07	S	-88.88	-90.26	4.61	-3.23	-13.00	-75.88
286.08	S	-86.51	-87.79	4.50	-3.22	-13.00	-73.51
351.07	S	-85.46	-86.81	4.78	-3.43	-13.00	-72.46
657.59	S	-81.95	-81.93	4.12	-4.14	-13.00	-68.95
1652.80	H	-37.56	-34.94	2.67	-5.29	-13.00	-24.56
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band :HSDPA B5 Test Date :2012-04-27
 ARFCN :CH 4183 Temp./Humi. :27 deg_C / 66 RH
 Fundamental Frequency :836.6 MHz Engineer :Jimmy
 Operation Mode :TX MID
 EUT Pol. :E2 plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
130.88	S	-87.10	-83.54	-0.77	-2.79	-13.00	-74.10
213.33	S	-85.64	-87.32	4.82	-3.14	-13.00	-72.64
247.28	S	-85.79	-87.07	4.51	-3.23	-13.00	-72.79
288.99	S	-84.81	-86.13	4.53	-3.22	-13.00	-71.81
357.86	S	-85.43	-86.73	4.73	-3.43	-13.00	-72.43
666.32	S	-79.36	-79.35	4.13	-4.14	-13.00	-66.36
1673.20	H	-40.87	-37.93	2.35	-5.29	-13.00	-27.87
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2012-04-27
ARFCN	:CH 4183	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Jimmy
Operation Mode	:TX MID		
EUT Pol.	:E2 plan	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
129.91	S	-89.08	-85.58	-0.72	-2.79	-13.00	-76.08
228.85	S	-90.71	-92.18	4.65	-3.17	-13.00	-77.71
251.16	S	-89.81	-91.15	4.57	-3.23	-13.00	-76.81
286.08	S	-86.44	-87.72	4.50	-3.22	-13.00	-73.44
359.80	S	-85.09	-86.38	4.72	-3.43	-13.00	-72.09
654.68	S	-81.39	-81.37	4.12	-4.14	-13.00	-68.39
1673.20	H	-44.17	-41.55	2.66	-5.29	-13.00	-31.17
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSDPA V Mode

Operation Band :HSDPA B5 Test Date :2012-04-27
 ARFCN :CH 4233 Temp./Humi. :27 deg_C / 66 RH
 Fundamental Frequency :846.6 MHz Engineer :Jimmy
 Operation Mode :TX HIGH
 EUT Pol. :E2 plan Measurement Antenna Pol. :VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG	Antenna	Cable	Limit	Safe
			Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
136.70	S	-88.27	-84.34	-1.14	-2.79	-13.00	-75.27
228.85	S	-85.44	-86.91	4.65	-3.17	-13.00	-72.44
251.16	S	-85.49	-86.83	4.57	-3.23	-13.00	-72.49
294.81	S	-83.50	-84.85	4.61	-3.25	-13.00	-70.50
345.25	S	-85.24	-86.57	4.76	-3.43	-13.00	-72.24
656.62	S	-78.91	-78.89	4.12	-4.14	-13.00	-65.91
1693.20	H	-38.71	-35.67	2.30	-5.34	-13.00	-25.71
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Operation Band :HSDPA B5 Test Date :2012-04-27
ARFCN :CH 4233 Temp./Humi. :27 deg_C / 66 RH
Fundamental Frequency :846.6 MHz Engineer :Jimmy
Operation Mode :TX HIGH
EUT Pol. :E2 plan Measurement Antenna Pol. :HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG		Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
			Output Level dBm	SG dBm				
135.73	S	-88.51	-84.65	-1.08	-2.79	-13.00	-75.51	
226.91	S	-90.99	-92.51	4.69	-3.17	-13.00	-77.99	
247.28	S	-89.93	-91.21	4.51	-3.23	-13.00	-76.93	
286.08	S	-86.81	-88.08	4.50	-3.22	-13.00	-73.81	
346.22	S	-85.47	-86.81	4.77	-3.43	-13.00	-72.47	
659.53	S	-81.75	-81.73	4.13	-4.14	-13.00	-68.75	
1693.20	H	-42.30	-39.61	2.65	-5.34	-13.00	-29.30	
2539.80	H	---						
3386.40	H	---						
4233.00	H	---						
5079.60	H	---						
5926.20	H	---						
6772.80	H	---						
7619.40	H	---						
8466.00	H	---						

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

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:

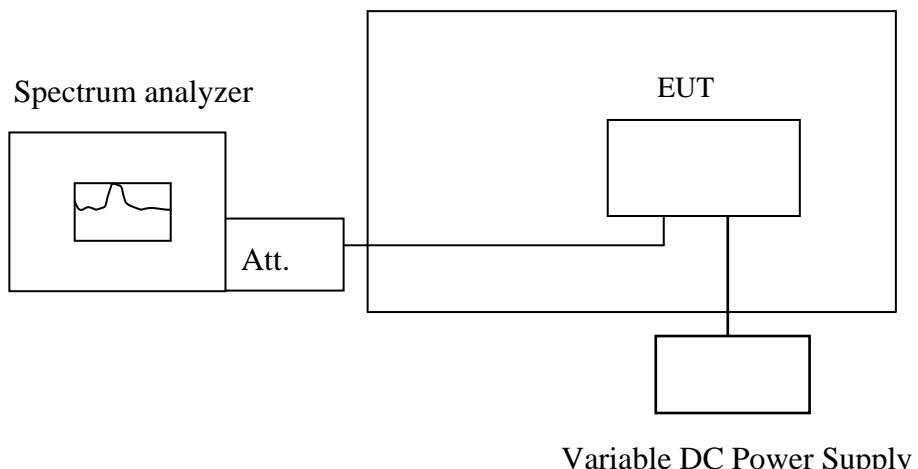
According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

11.2. Test Set-up:

Temperature Chamber



Note : Measurement setup for testing on Antenna connector

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 @ 25°C

Limit: +/- 2.5 ppm = 2091 Hz

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599983	6.00	2091
3.7	-20	836.599984	5.00	2091
3.7	-10	836.599988	3.00	2091
3.7	0	836.599986	1.00	2091
3.7	10	836.599991	-4.00	2091
3.7	20	836.599997	0.00	2091
3.7	30	836.599993	2.00	2091
3.7	40	836.599990	3.00	2091
3.7	50	836.599989	5.00	2091

Reference Frequency: GPRS 1900Mid Channel 1880 MHz @ 20°C

Limit: +/- 2.5 ppm = 4700 Hz

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999993	12.00	4700
3.7	-20	1879.999987	18.00	4700
3.7	-10	1879.999991	14.00	4700
3.7	0	1879.999995	10.00	4700
3.7	10	1880.000001	4.00	4700
3.7	20	1880.000005	0.00	4700
3.7	30	1880.000003	2.00	4700
3.7	40	1879.999999	6.00	4700
3.7	50	1879.999997	8.00	4700

Note: The battery is rated 3.7V dc.

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Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz @ 20°C

Limit: +/- 2.5 ppm = 4700 Hz

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1880.000003	5.00	4700
3.7	-20	1880.000008	-12.00	4700
3.7	-10	1880.000005	1.00	4700
3.7	0	1879.999999	15.00	4700
3.7	10	1879.999998	4.00	4700
3.7	20	1879.999992	0.00	4700
3.7	30	1879.999988	2.00	4700
3.7	40	1879.999985	6.00	4700
3.7	50	1879.999981	0.00	4700

Reference Frequency: WCDMA V Mid Channel 836 (ARFCN4183) MHz @ 20°C

Limit: +/- 2.5 ppm = 2090 Hz

Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599982	1.00	2091
3.7	-20	836.599987	-2.00	2091
3.7	-10	836.599991	17.00	2091
3.7	0	836.599997	8.00	2091
3.7	10	836.600001	1.00	2091
3.7	20	836.600002	0.00	2091
3.7	30	836.600004	3.00	2091
3.7	40	836.600001	5.00	2091
3.7	50	836.000003	10.00	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(a) (1)

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

+/-2.5ppm for 1900MHz band

12.2. Test Set-up:

Refer to section 10.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

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 @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	836.599992	5.00	2091.00
3.7	25.00	836.599997	0.00	2091.00
3.4	25.00	836.599990	7.00	2091.00
2.9 (End Point)	25.00	836.599754	243.00	2091.00

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1880.000009	-4.00	4700
3.7	25	1880.000005	0.00	4700
3.4	25	1880.000006	-1.00	4700
2.9 (Endpoint)	25	1879.999697	308.00	4700

Note: The battery is rated 3.7V dc.

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Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	836.600001	1.00	4700
3.7	25.00	836.600002	0.00	4700
3.4	25.00	836.600008	-6.00	4700
2.6 (Endpoint)	25.00	836.599988	14.00	4700

Reference Frequency: WCDMA V Mid Channel 836 (ARFCN4183) MHz				
Limit: +/- 2.5 ppm = 2090 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	1879.999995	-3.00	2090
3.7	25.00	1879.999992	0.00	2090
3.4	25.00	1879.999994	-2.00	2090
2.6 (Endpoint)	25.00	1879.999982	10.00	2090

Note: The battery is rated 3.7V dc.

~ End of Report ~

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