

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Pocket PC Phone

Brand Name: HTC

Model Name: RHOD300

Model Difference: N/A

FCC ID: NM8RHOD300

Report No.: EH/2009/40010

Issue Date: May. 05, 2009

FCC Rule Part: 2, 22H & 24E

Prepared for: HTC Corporation

No.23, Xinghua Rd., Taoyuan City, Taoyuan
County 330, Taiwan, R.O.C

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

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Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: HTC Corporation
No.23, Xinghua Rd., Taoyuan City, Taoyuan County 330,
Taiwan, R.O.C

Product Name: Pocket PC Phone

Brand Name: HTC

Model No.: SP510

Model Difference: N/A

FCC ID: NM8RHOD300

File Number: EH/2009/40010

Date of test: Apr. 20, 2009 ~ May. 04, 2009

Date of EUT Received: Apr. 20, 2009

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:

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Date:

May. 05, 2009

BrianChang / Engineer

Prepared By:

Alex Hsieh

Date:

May. 05, 2009

Alex Hsieh / Sr. Engineer

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Vincent Su

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May. 05, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	May. 05, 2009	Initial creation of document
01	Jun. 02, 2009	Remove page 81 and 84 wrong information.

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Pocket PC Phone	
Brand Name:	HTC	
Model Name:	RHOD300	
Model Difference:	N/A	
Simple Hands-Free (SHF):	N/A	
Audio Cable:	4 in 1 audio cable, Model No.: YC A300,Supplier:MEC	
Data Cable (USB):	<ol style="list-style-type: none"> 1. Model No.: DC U200, Supplier: Mec 2. Model No.: DC U200, Supplier: Acon 3. Model No.: DC U200,Supplier: CHENG UEI 	
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	<ol style="list-style-type: none"> 1. P/N: 35H00123-00M & 35H00123-06M, Supplier: HT,Model:RHOD160 2. P/N: 35H00123-02M & 35H00123-07M, Supplier: Formosa,Model:RHOD160 3. P/N: 35H00123-01M & 35H00123-08M, Supplier:Simple,Model:RHOD160
	Adapter:	<ol style="list-style-type: none"> 1. Model: TC P300, Supplier: CHENG UEI 2. Model: TC P300, Supplier: Delta

GSM and WCDMA:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power:	GSM/GPRS/EDGE, 850, Class 10	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS/EDGE, 900, Class 10	880.2MHz – 914.8MHz	33 dBm
	GSM/GPRS/EDGE, 1800, Class 10	1710.2MHz-1784.8MHz	30 dBm
	GSM/GPRS/EDGE, 1900, Class 10	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA /HSDPA Band V	826.4MHz –846.6MHz	24 dBm
	HSDPA	data rate: uplink up to 384kbps data rate: downlink up to 3.6Mbps, Release 5	
Type of Emission:	GSM 850: 245KGXW, GSM 1900 :248KGXW EDGE 850: 242KG7W, EDGE 1900:246KG7W WCDMA B2: 4M18F9W, WCDMA B5: 4M17F9W		
Hardware Version:	N/A		
Software Version:	N/A		
TAC Code:	35885002 35885102		

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WLAN: 802.11 b/g

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Transmit Power:	<input checked="" type="checkbox"/> 802.11 b: 18.51 dBm EIRP <input checked="" type="checkbox"/> 802.11 g: 13.46 dBm EIRP
Modulation Technology:	<input checked="" type="checkbox"/> DSSS, <input checked="" type="checkbox"/> OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	PIFA Antenna, -1dBi.
Type of Emission:	16M3D1D

The EUT is compliance with IEEE 802.11 b/g Standard.

Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input checked="" type="checkbox"/> V2.0 + EDR (GFSK + π /4DQPSK + 8DPSK) <input type="checkbox"/> V2.1 + EDR (GFSK + π /4DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	0.37 dBm EIRP
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	PIFA Antenna, -1dBi.
Type of Emission:	1M27FXD

The EUT is compliance with Bluetooth 2.0 + EDR Standard.

This test report applies for GSM/GPRS/EDGE 850/1900, WCDMA and HSDPA.

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

This submittal(s) (test report) is intended for FCC ID: NM8RHOD300 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 on TIA/EIA-603-C-2004 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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-1

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.

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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):

According to measurement procured TIA/EIA 603C, issue 2 of RSS-Gen and TIA/EIA IS-98 for Mobile stations. 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 according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

2.4. Measurement Equipment Used:

AC POWER LINE CONDUCTED EMISSION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2009	02/17/2010
LISN	FCC	FCC-LISN-50 /250-25-2-01	04034	02/18/2009	02/17/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2008	07/04/2009
Splitter	Agilent	11636B	N/A	07/05/2008	07/04/2009
DC Power Supply	HP	6038A	2929A-07548	06/27/2007	06/26/2009
DC Power Supply	Topward	3303D	981327	10/26/2007	10/25/2009

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	05/09/2008	05/10/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	05/22/2008	05/21/2009
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2008	07/04/2009
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2008	07/04/2009
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
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	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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2.5. Configuration of Tested System

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

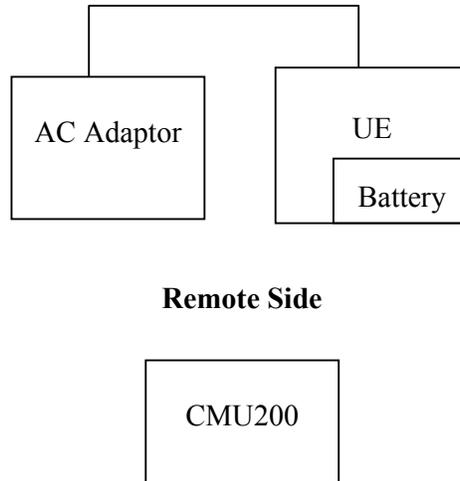


Table 2-1 Equipment Used in Tested System

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

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(c)(d)	RF Peak 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
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	30.06	ERP	1.014
GSM 1900 Band	26.32	EIRP	0.429
EDGE 850 Band	23.49	ERP	0.223
EDGE 1900 Band	20.66	EIRP	0.116
WCDMA Band II	19.38	EIRP	0.087
WCDMA Band V	14.52	EIRP	0.028

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 stand-up position (H mode) and lie down position (E1, E2 mode) for GSM with power adaptor. The worst-case of E1 position for GSM 850 band and H position for PCS 1900 band and E2 position for WCDMA band II and H position for WCDMA band V were reported.

5. RF POWER OUTPUT MEASUREMENT / MAXIMUM POWER REDUCTION MEASUREMENT

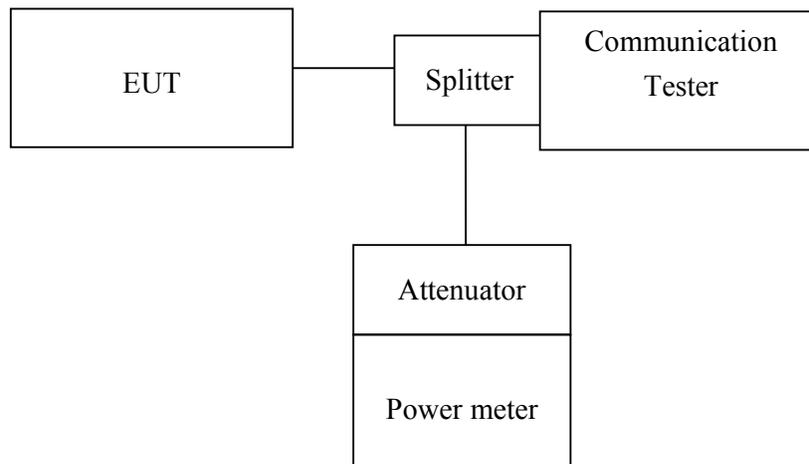
5.1. Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(d) Peak Power Measurement, FCC 24.232(c).

5.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3. 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. was used for EUT and Base station setting.

5.4. Measurement Equipment Used:

Refer to section 2.4 in this report

5.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
GSM 850	824.2	128	32.70	32.50
	836.6	190	32.70	32.50
	848.8	251	33.70	32.60

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)
GPRS 850 (Class 10)	824.2	128	32.70	32.70	---	---
	836.6	190	32.80	32.70	---	---
	848.8	251	32.80	32.70	---	---

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
GPRS 850 (Class 10)	824.2	128	32.50	32.50	---	---
	836.6	190	32.70	32.60	---	---
	848.8	251	32.60	32.60	---	---

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)
EDGE 850 (Class 10)	824.2	128	30.00	29.70	---	---
	836.6	190	30.10	29.80	---	---
	848.8	251	29.90	29.70	---	---

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
EDGE 850 (Class 10)	824.2	128	26.70	26.50	---	---
	836.6	190	26.90	26.60	---	---
	848.8	251	26.80	26.50	---	---

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
GSM 1900	824.2	512	29.30	29.20
	836.6	661	29.40	29.30
	848.8	810	29.30	29.20

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	29.30	29.30	---	---
	1880	661	29.30	29.30	---	---
	1909.8	810	29.20	29.20	---	---

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	29.20	29.10	---	---
	1880.0	661	29.20	29.20	---	---
	1909.8	810	29.10	29.10	---	---

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	28.60	28.40	---	---
	1880	661	28.70	28.60	---	---
	1909.8	810	28.90	28.50	---	---

EUT Mode	Frequency (MHz)	CH	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	25.60	25.20	---	---
	1880.0	661	25.70	25.30	---	---
	1909.8	810	25.40	25.20	---	---

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band II	1852.4	9262	26.56	22.75
	1880.0	9400	26.28	22.46
	1907.6	9538	25.88	22.34

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band II	1852.4	9262	26.93	22.75
	1880.0	9400	26.44	22.42
	1907.6	9538	25.96	22.08

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
WCDMA Band V	826.4	4132	26.49	23.33
	836.6	4183	26.26	23.18
	846.6	4233	26.13	23.10

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)
HSDPA Band V	826.4	4132	27.01	23.22
	836.6	4183	26.69	23.03
	846.6	4233	26.62	22.98

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6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable:

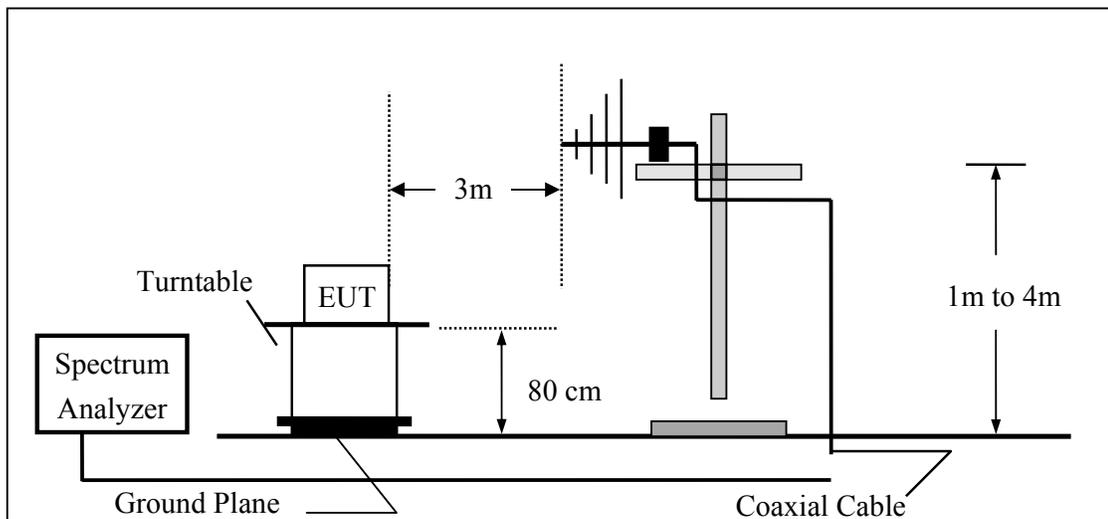
According to FCC §2.1046

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

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

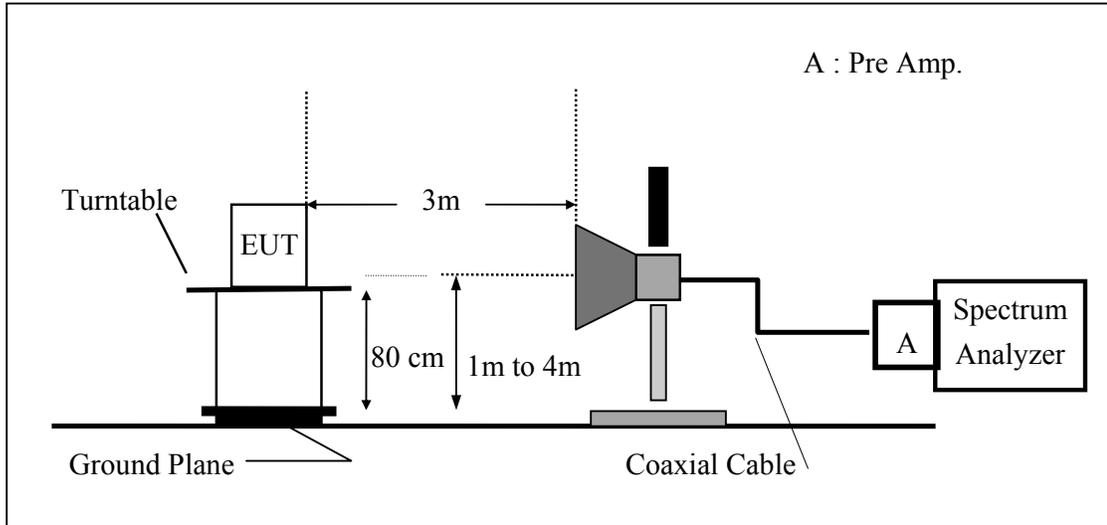
6.2. Test SET-UP (Block Diagram of Configuration):

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

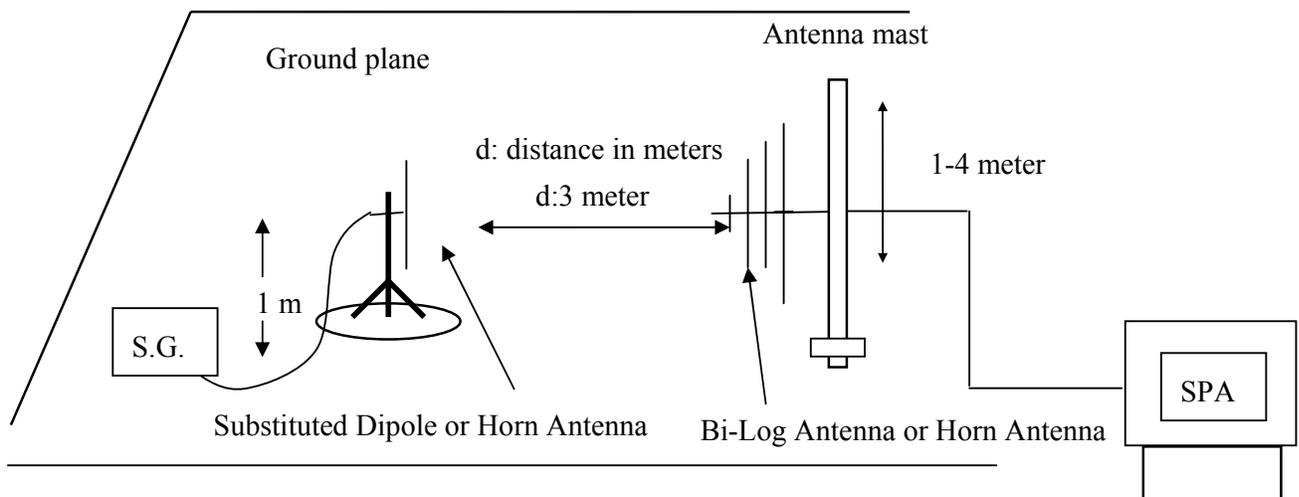


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. Measurement Procedure:

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

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

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

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

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

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

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

6.5. 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)
GSM 850	824.20	128	H	V	123.84	37.45	-7.87	3.62	25.95	38.45
				H	127.56	41.29	-7.87	3.62	29.79	38.45
			E1	V	127.95	41.56	-7.87	3.62	30.06	38.45
				H	123.20	36.93	-7.87	3.62	25.43	38.45
			E2	V	122.50	36.11	-7.87	3.62	24.61	38.45
				H	127.69	41.42	-7.87	3.62	29.92	38.45
	836.60	190	H	V	125.08	38.83	-7.88	3.65	27.30	38.45
				H	127.07	40.84	-7.88	3.65	29.31	38.45
			E1	V	126.37	40.12	-7.88	3.65	28.59	38.45
				H	122.69	36.46	-7.88	3.65	24.93	38.45
			E2	V	122.24	35.99	-7.88	3.65	24.46	38.45
				H	126.67	40.44	-7.88	3.65	28.91	38.45
	848.80	251	H	V	124.80	38.68	-7.88	3.68	27.12	38.45
				H	126.89	40.70	-7.88	3.68	29.14	38.45
			E1	V	126.63	40.51	-7.88	3.68	28.95	38.45
				H	122.67	36.48	-7.88	3.68	24.92	38.45
			E2	V	122.49	36.37	-7.88	3.68	24.81	38.45
				H	127.06	40.87	-7.88	3.68	29.31	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=300 KHz, VBW=1MHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Measurement Result:

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)
PCS 1900	1850.20	512	H	V	117.30	12.91	9.90	5.56	17.25	33.00
				H	125.33	21.15	9.90	5.56	25.49	33.00
			E1	V	122.03	17.64	9.90	5.56	21.98	33.00
				H	119.99	15.81	9.90	5.56	20.15	33.00
			E2	V	124.82	20.43	9.90	5.56	24.77	33.00
				H	120.23	16.05	9.90	5.84	20.11	33.00
	1880.00	661	H	V	117.42	13.06	9.99	5.61	17.44	33.00
				H	126.09	21.95	9.99	5.61	26.32	33.00
			E1	V	122.73	18.37	9.99	5.61	22.75	33.00
				H	121.28	17.14	9.99	5.61	21.51	33.00
			E2	V	125.10	20.74	9.99	5.61	25.12	33.00
				H	120.49	16.35	9.99	5.61	20.72	33.00
	1909.80	810	H	V	116.27	11.94	10.08	5.66	16.36	33.00
				H	125.24	21.13	10.08	5.66	25.55	33.00
			E1	V	122.13	17.80	10.08	5.66	22.22	33.00
				H	120.43	16.32	10.08	5.66	20.74	33.00
			E2	V	123.91	19.58	10.08	5.66	24.00	33.00
				H	119.09	14.98	10.08	5.66	19.40	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=300 KHz, VBW=1MHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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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)
EDGE 850	824.20	128	H	V	118.13	31.74	-7.87	3.62	20.24	38.45
				H	120.95	34.68	-7.87	3.62	23.18	38.45
			E1	V	121.38	34.99	-7.87	3.62	23.49	38.45
				H	116.27	30.00	-7.87	3.62	18.50	38.45
			E2	V	116.88	30.49	-7.87	3.62	18.99	38.45
				H	120.76	34.49	-7.87	3.62	22.99	38.45
	836.60	190	H	V	117.29	31.04	-7.88	3.65	19.51	38.45
				H	120.97	34.74	-7.88	3.65	23.21	38.45
			E1	V	119.94	33.69	-7.88	3.65	22.16	38.45
				H	115.64	29.41	-7.88	3.65	17.88	38.45
			E2	V	115.95	29.70	-7.88	3.65	18.17	38.45
				H	120.43	34.20	-7.88	3.65	22.67	38.45
	848.80	251	H	V	117.22	31.10	-7.88	3.68	19.54	38.45
				H	121.09	34.90	-7.88	3.68	23.34	38.45
			E1	V	119.07	32.95	-7.88	3.68	21.39	38.45
				H	115.13	28.94	-7.88	3.68	17.38	38.45
			E2	V	116.23	30.11	-7.88	3.68	18.55	38.45
				H	120.05	33.86	-7.88	3.68	22.30	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=300 KHz, VBW=1MHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Measurement Result:

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	H	V	114.97	10.58	9.90	5.56	14.92	33.00
				H	120.33	16.15	9.90	5.56	20.49	33.00
			E1	V	117.71	13.32	9.90	5.56	17.66	33.00
				H	115.99	11.81	9.90	5.56	16.15	33.00
			E2	V	120.07	15.68	9.90	5.56	20.02	33.00
				H	115.08	10.90	9.90	5.84	14.96	33.00
	1880.00	661	H	V	114.45	10.09	9.99	5.61	14.47	33.00
				H	110.85	6.71	9.99	5.61	11.08	33.00
			E1	V	118.13	13.77	9.99	5.61	18.15	33.00
				H	116.42	12.28	9.99	5.61	16.65	33.00
			E2	V	120.64	16.28	9.99	5.61	20.66	33.00
				H	115.89	11.75	9.99	5.61	16.12	33.00
	1909.80	810	H	V	113.75	9.42	10.08	5.66	13.84	33.00
				H	120.69	16.58	10.08	5.66	21.00	33.00
			E1	V	118.14	13.81	10.08	5.66	18.23	33.00
				H	116.00	11.89	10.08	5.66	16.31	33.00
			E2	V	120.03	15.70	10.08	5.66	20.12	33.00
				H	115.35	11.24	10.08	5.66	15.66	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=300 KHz, VBW=1MHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Measurement Result:

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)
WCDMA Band II	1852.40	9262	H	V	109.58	5.20	9.90	5.56	9.53	33.00
				H	118.75	14.57	9.90	5.56	18.91	33.00
			E1	V	116.72	12.34	9.90	5.56	16.67	33.00
				H	115.23	11.05	9.90	5.56	15.39	33.00
			E2	V	119.43	15.05	9.90	5.56	19.38	33.00
				H	113.03	8.85	9.90	5.84	12.91	33.00
	1880.00	9400	H	V	108.29	3.93	9.99	5.61	8.31	33.00
				H	118.50	14.36	9.99	5.61	18.73	33.00
			E1	V	115.53	11.14	9.90	5.56	15.48	33.00
				H	113.41	9.27	9.99	5.61	13.64	33.00
			E2	V	118.45	14.09	9.99	5.61	18.47	33.00
				H	112.76	8.62	9.99	5.61	12.99	33.00
	1907.60	9538	H	V	109.43	5.10	10.07	5.66	9.51	33.00
				H	118.82	14.71	10.07	5.66	19.12	33.00
			E1	V	114.83	10.50	10.07	5.66	14.91	33.00
				H	113.13	9.02	10.07	5.66	13.43	33.00
			E2	V	118.06	13.73	10.07	5.66	18.14	33.00
				H	112.95	8.84	10.07	5.66	13.25	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=300 KHz, VBW=1MHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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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)
WCDMA Band V	826.40	128	H	V	105.72	19.36	-7.88	3.63	7.85	38.45
				H	112.02	25.76	-7.88	3.63	14.26	38.45
			E1	V	111.83	25.47	-7.88	3.63	13.96	38.45
				H	109.54	23.28	-7.88	3.63	11.78	38.45
			E2	V	105.52	19.16	-7.88	3.63	7.65	38.45
				H	111.75	25.49	-7.88	3.63	13.99	38.45
	836.00	190	H	V	105.56	19.30	-7.88	3.65	7.77	38.45
				H	111.66	25.43	-7.88	3.65	13.90	38.45
			E1	V	111.98	25.72	-7.88	3.65	14.19	38.45
				H	109.62	23.39	-7.88	3.65	11.86	38.45
			E2	V	106.25	19.99	-7.88	3.65	8.46	38.45
				H	111.18	24.95	-7.88	3.65	13.42	38.45
	846.60	251	H	V	106.39	20.24	-7.88	3.67	8.69	38.45
				H	112.27	26.07	-7.88	3.67	14.52	38.45
			E1	V	112.07	25.91	-7.88	3.67	14.36	38.45
				H	109.47	23.27	-7.88	3.67	11.72	38.45
			E2	V	105.96	19.81	-7.88	3.67	8.26	38.45
				H	110.50	24.30	-7.88	3.67	12.75	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=300 KHz, VBW=1MHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable:

According to §FCC 2.1049.

7.2. Test Set-up:

Refer to section 5.2 in this report

7.3. 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.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2452
	836.60	190	0.2444
	848.80	251	0.2428

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2458
	1880.00	661	0.2476
	1909.80	810	0.2451

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2359
	836.60	190	0.2422
	848.80	251	0.2408

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2450
	1880.00	661	0.2444
	1909.80	810	0.2460

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1707
	1880.00	9400	4.1644
	1907.60	9538	4.1792

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band V	826.40	4132	4.1534
	836.60	4180	4.1640
	846.60	4233	4.1665

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Figure 7-1: GSM 850 Channel Low

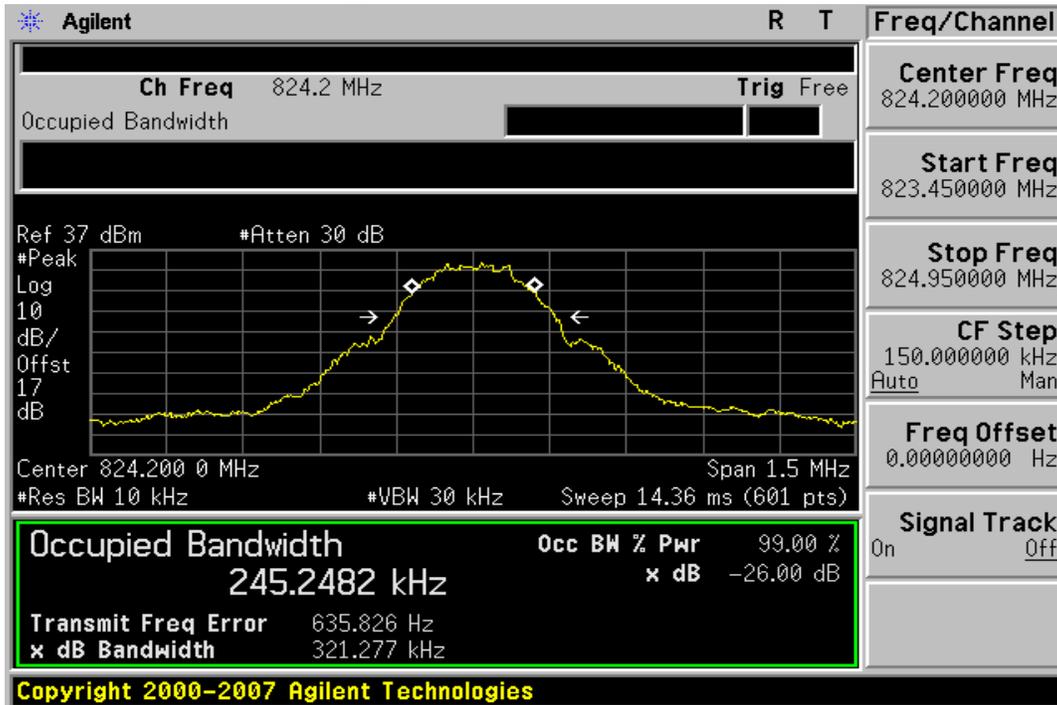
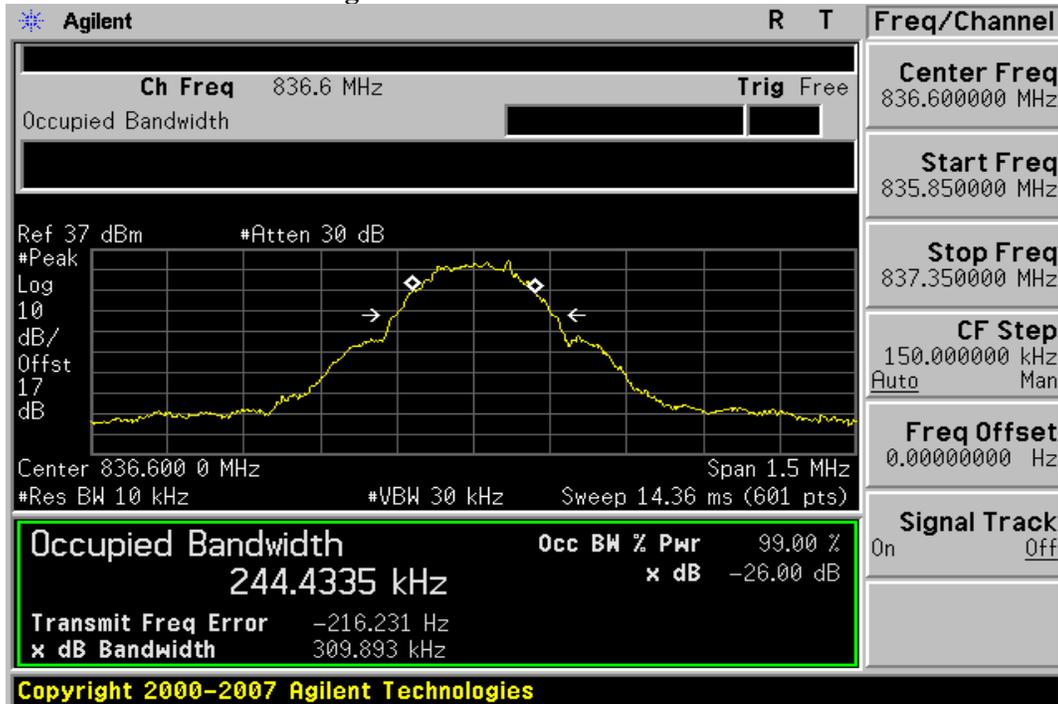


Figure 7-2 GSM 850 Channel Mid



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Figure 7-3: GSM 850 Channel High

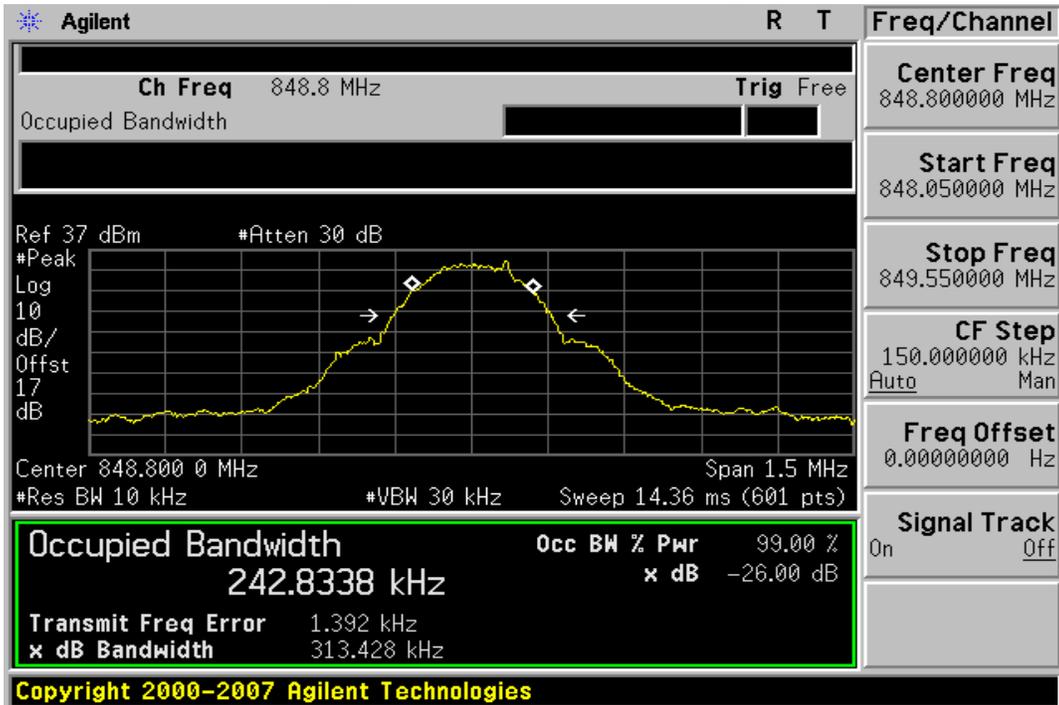
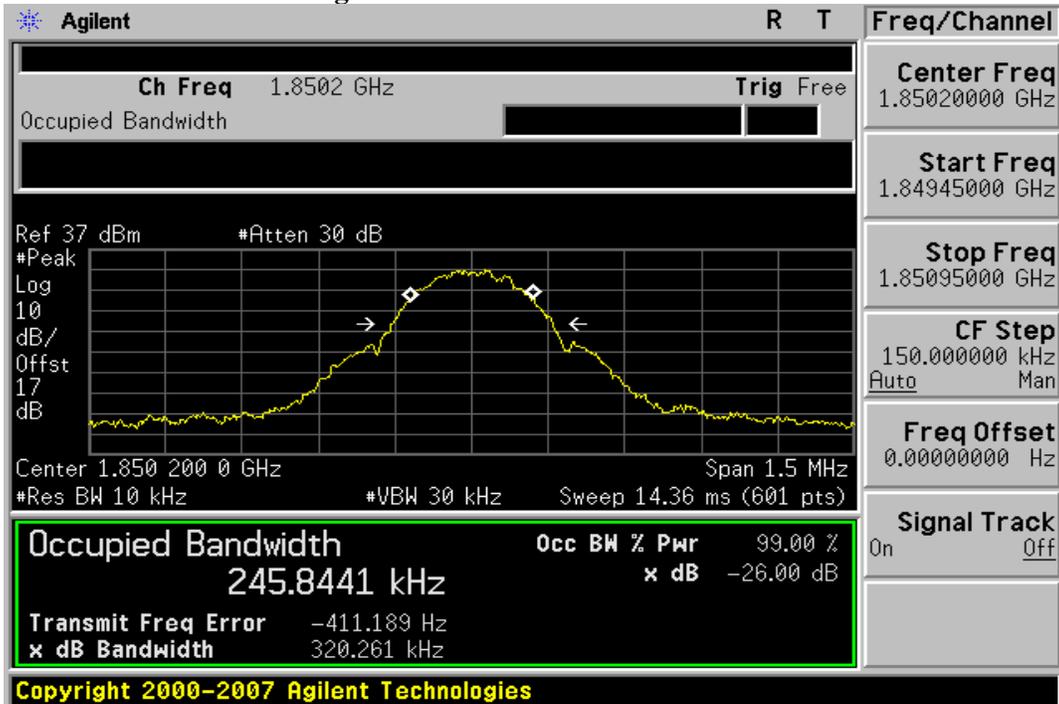


Figure 7-4: PCS 1900 Channel Low



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Figure 7-5 PCS 1900 Channel Mid

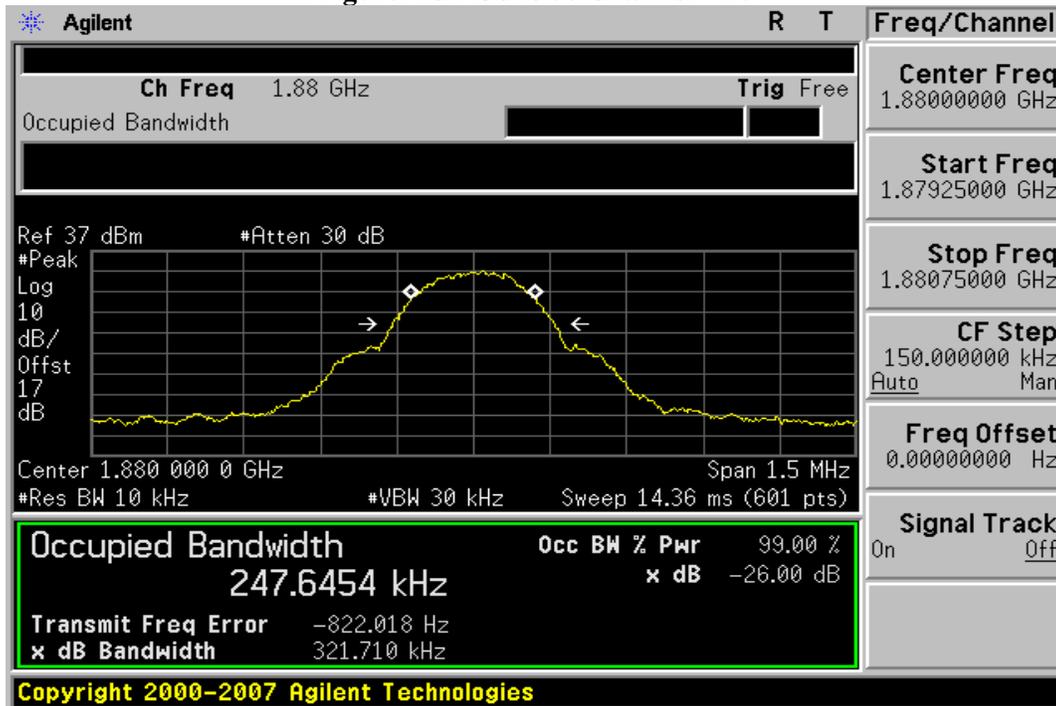
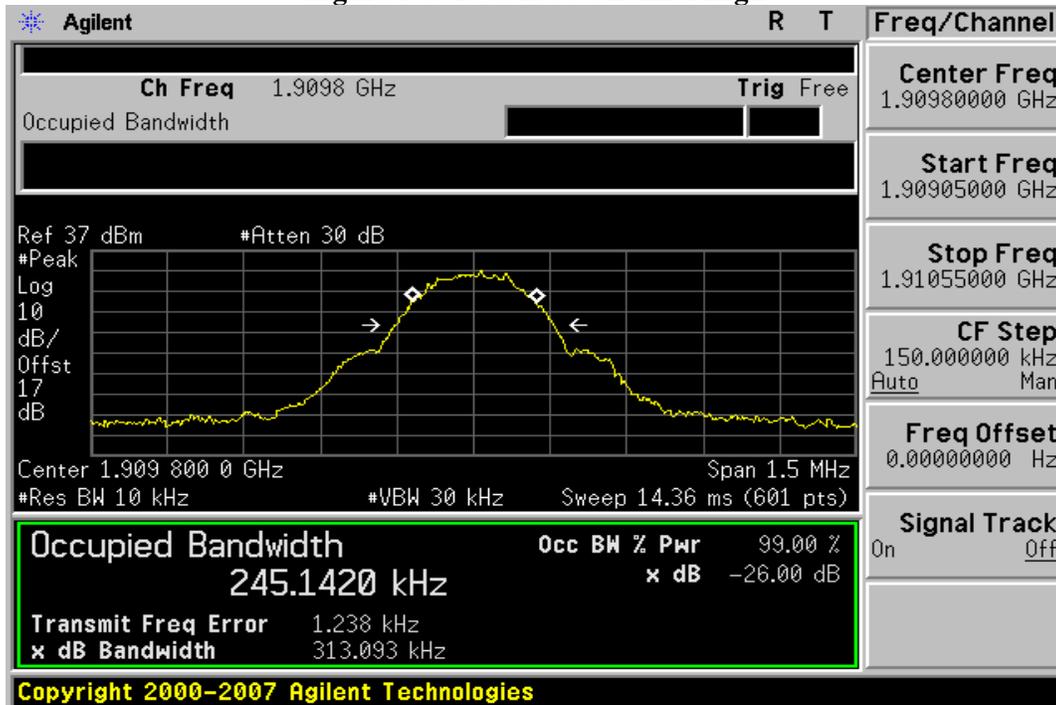


Figure 7-6: PCS 1900 Channel High



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Figure 7-7: EDGE 850 Channel Low

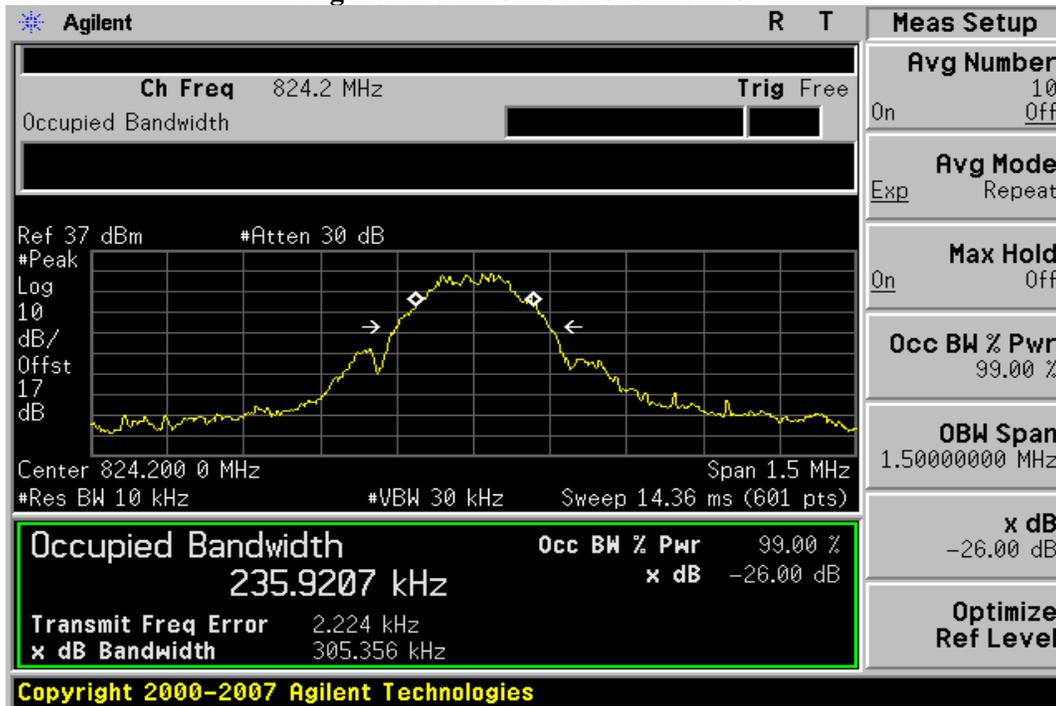
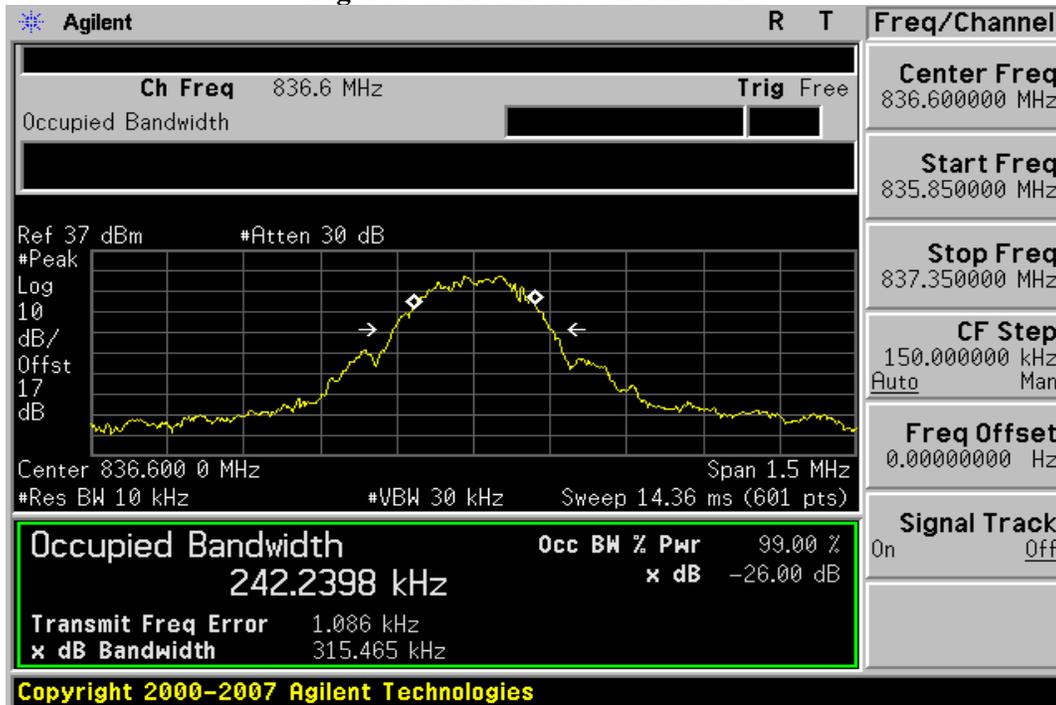


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

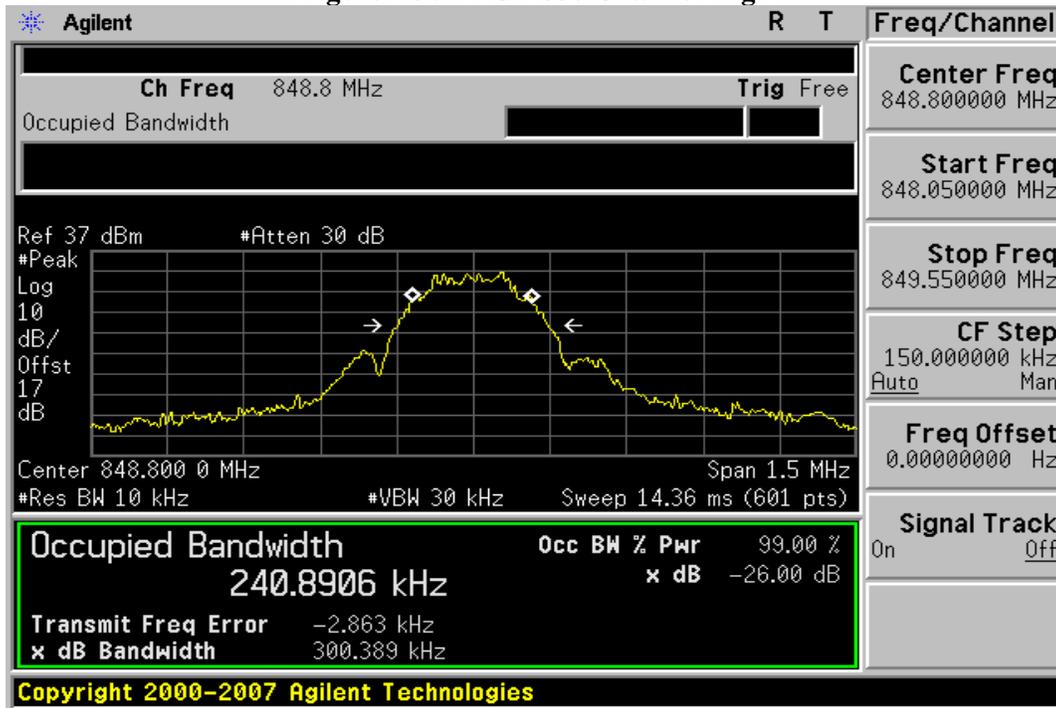
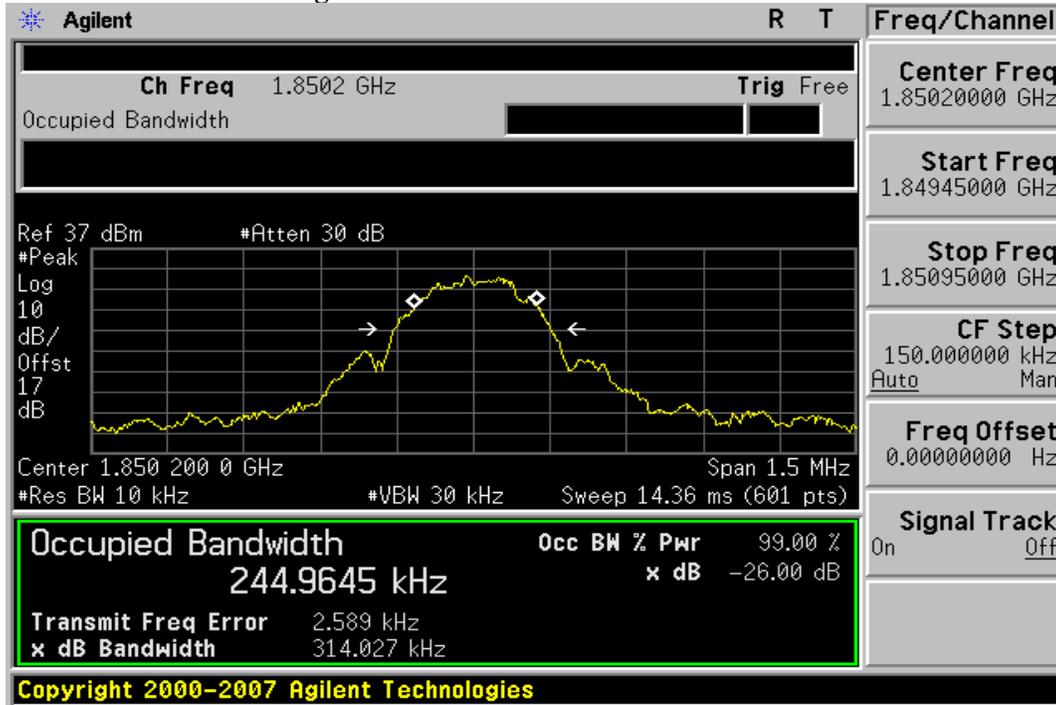


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

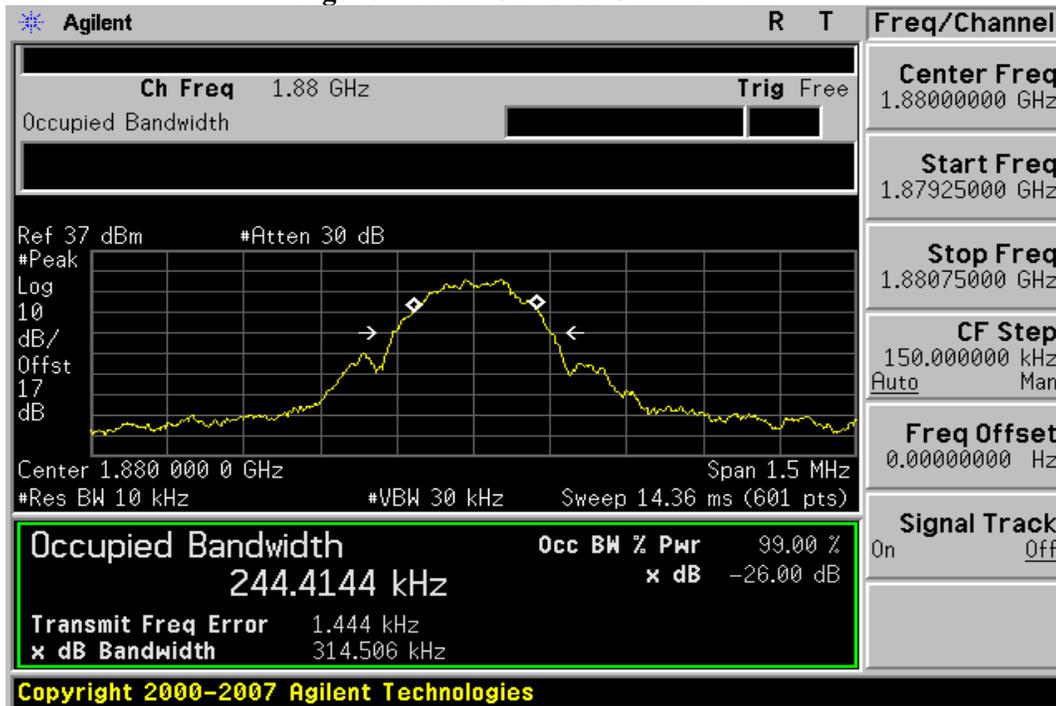
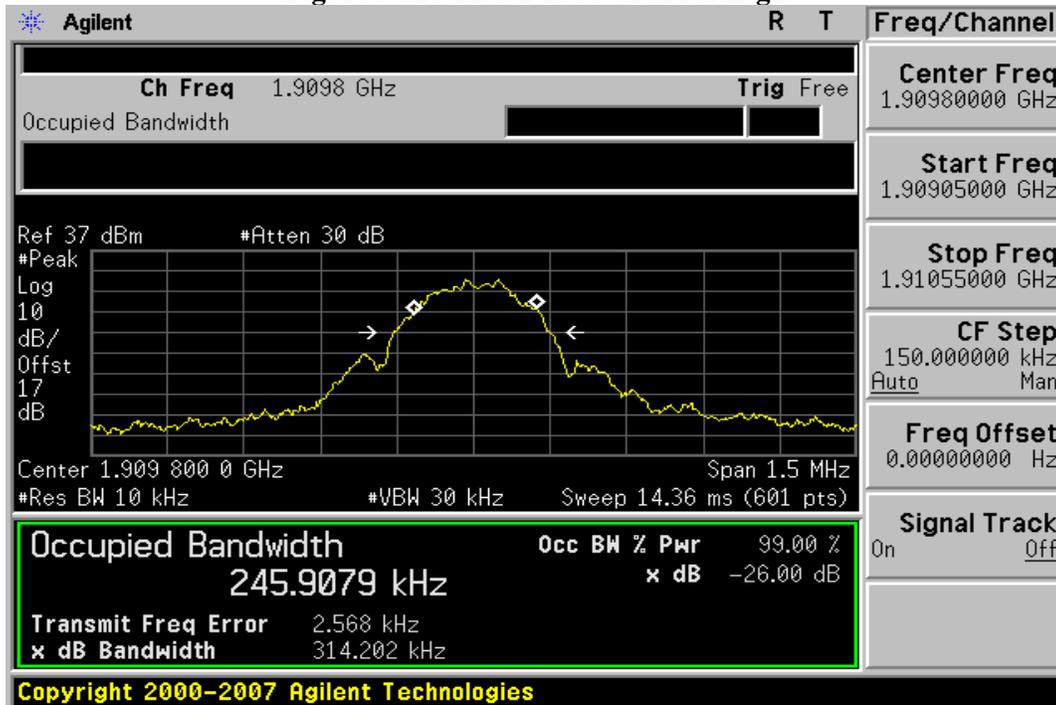


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13 WCDMA B2 Channel Low

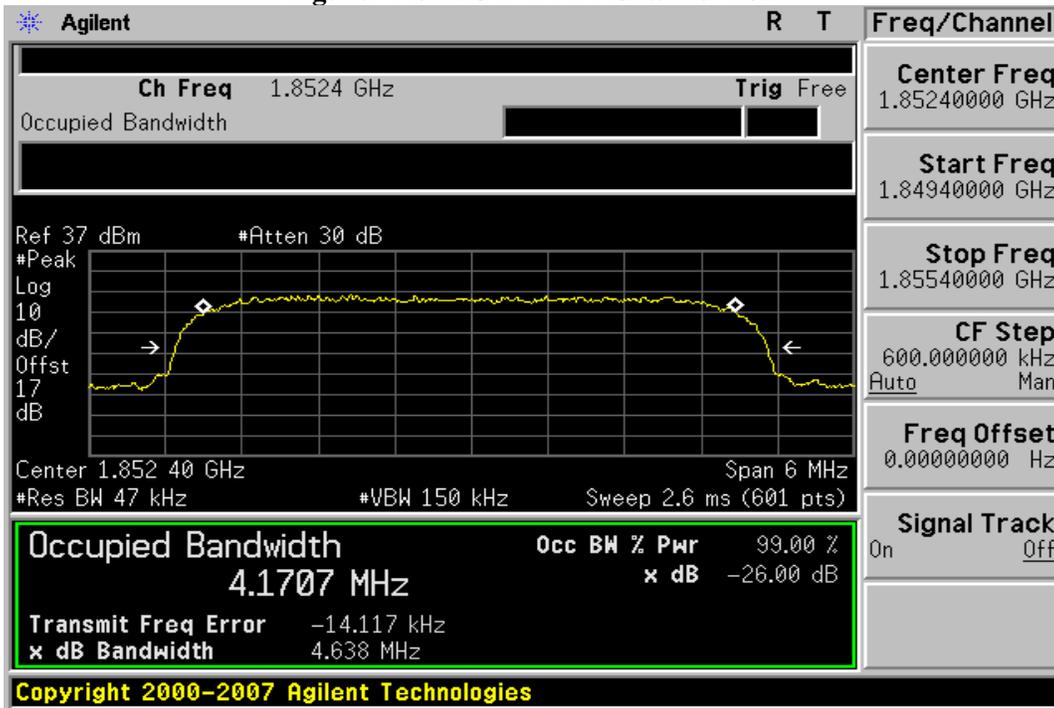
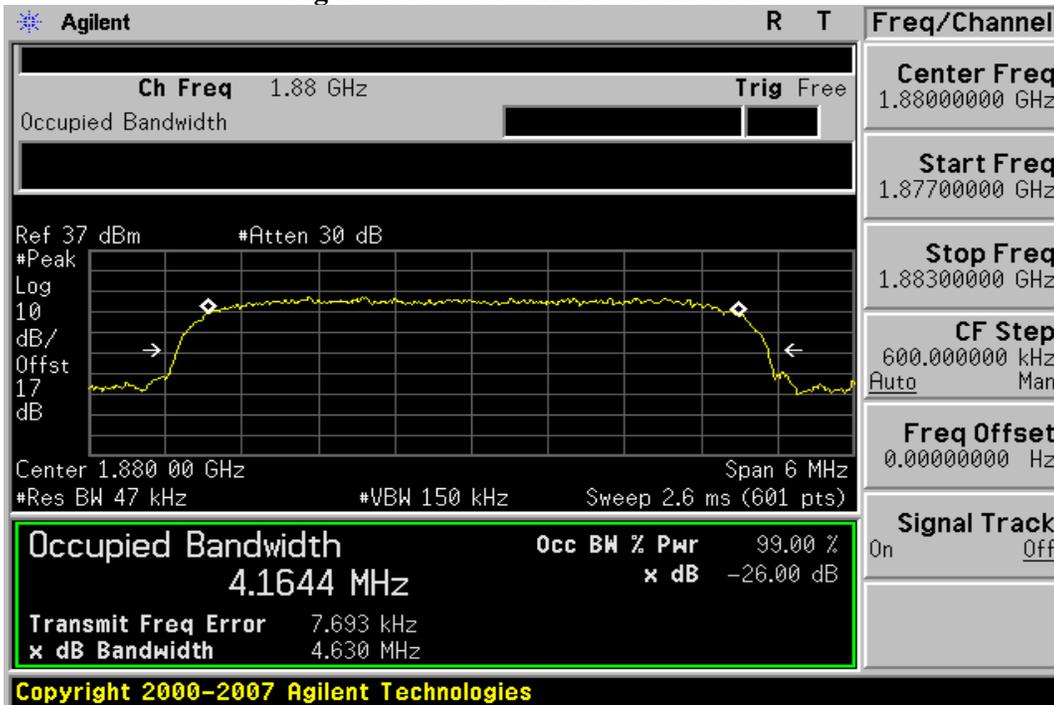


Figure 7-14 WCDMA B2 Channel Mid



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Figure 7-17 WCDMA B5 Channel Mid

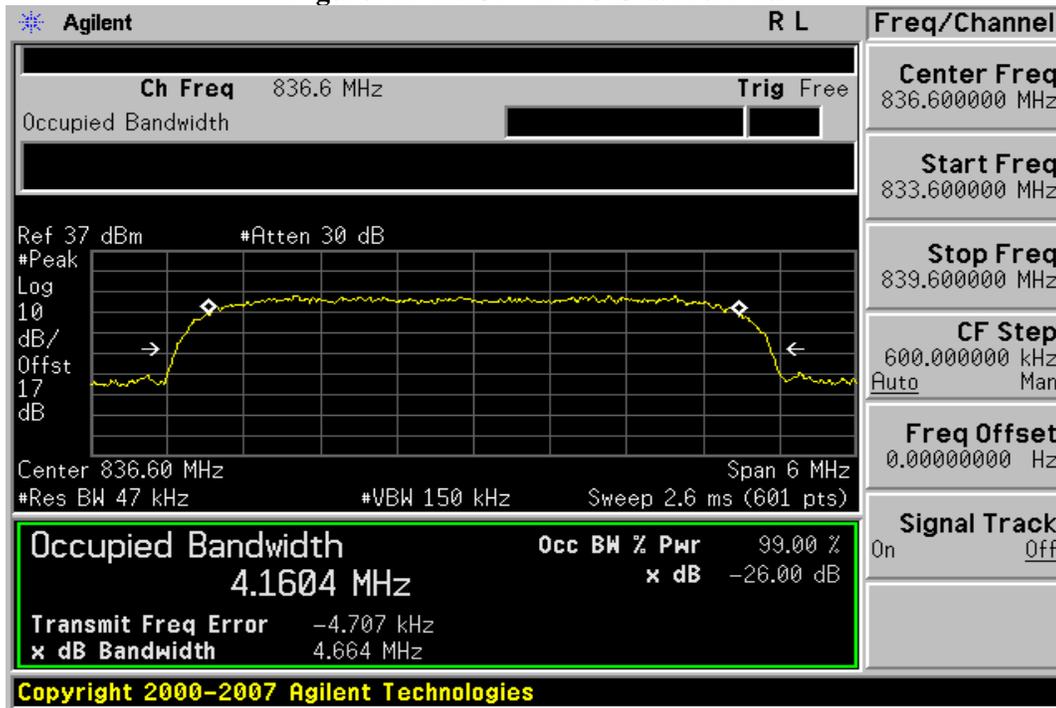
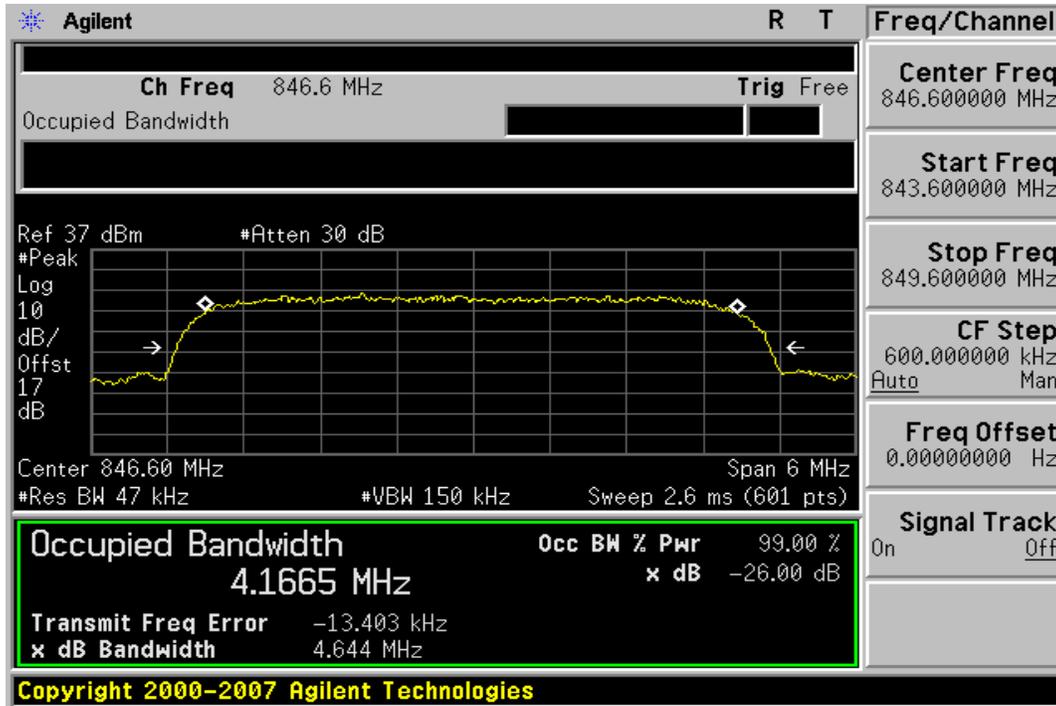


Figure 7-18: WCDMA B5 Channel High



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8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1. 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)

8.2. Test SET-UP:

Refer to section 5.2 in this report

8.3. 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

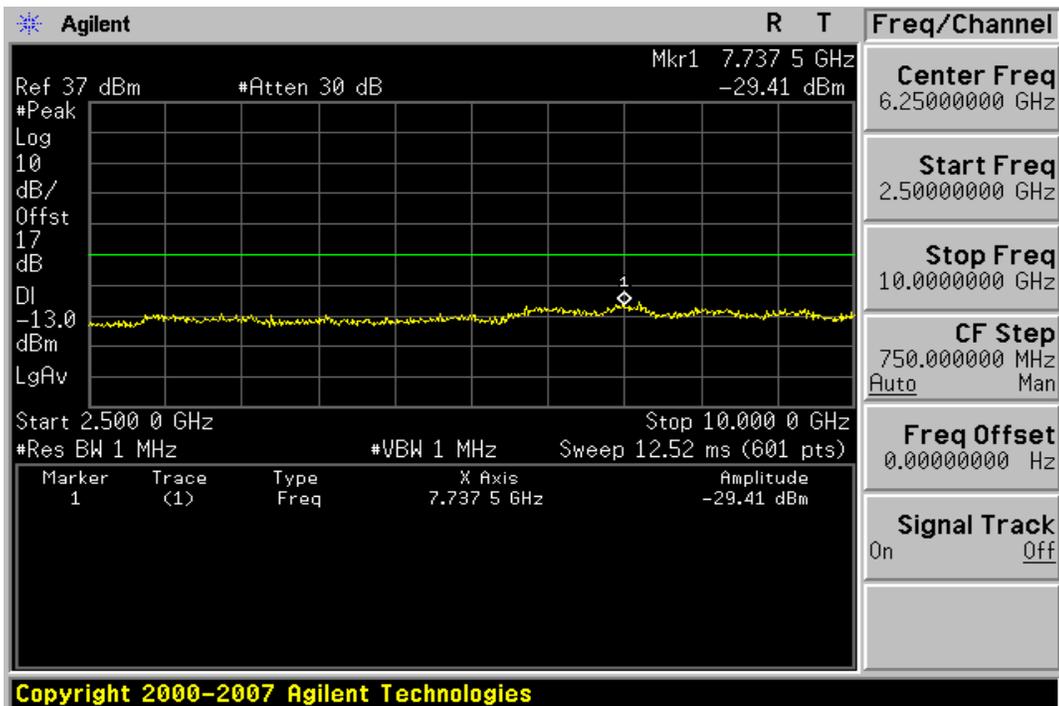
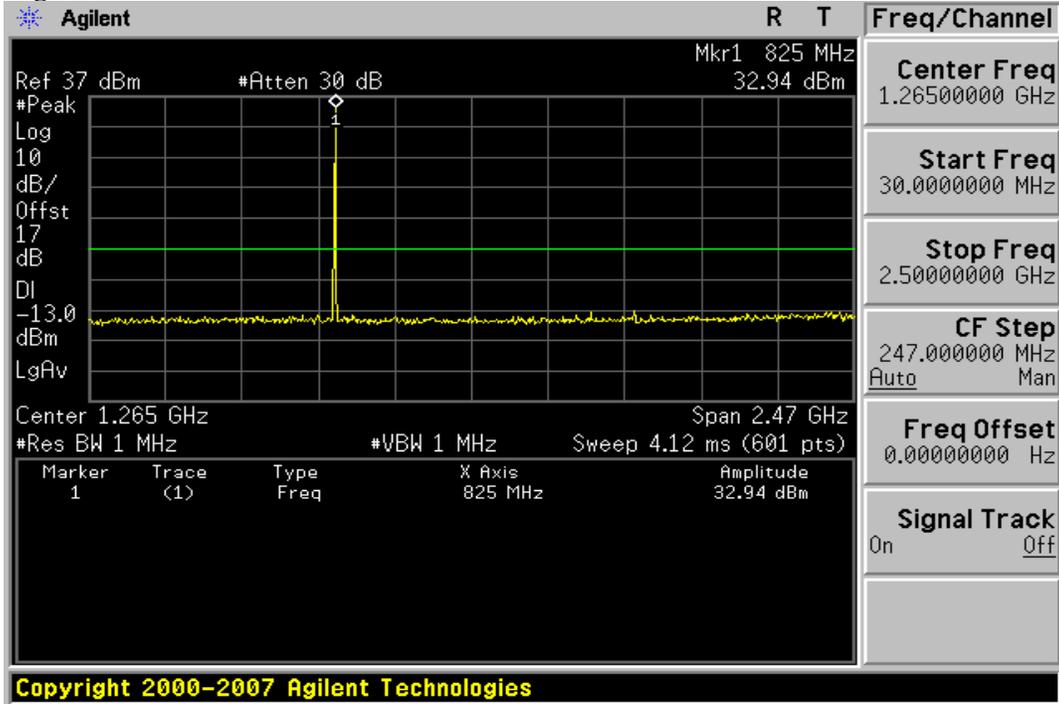
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

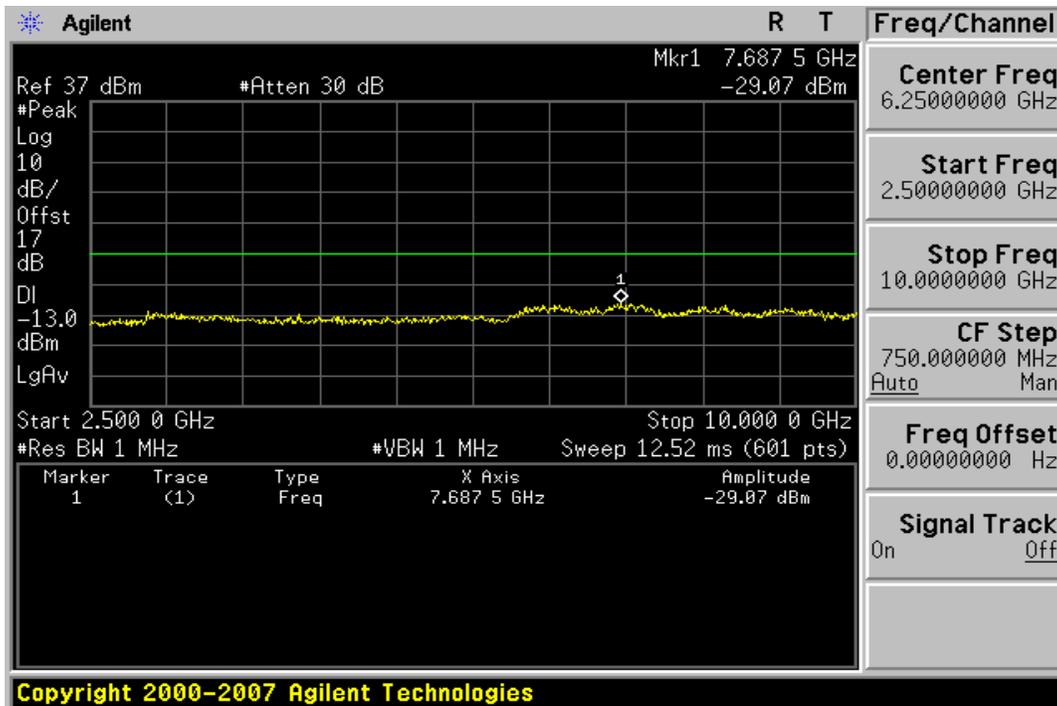
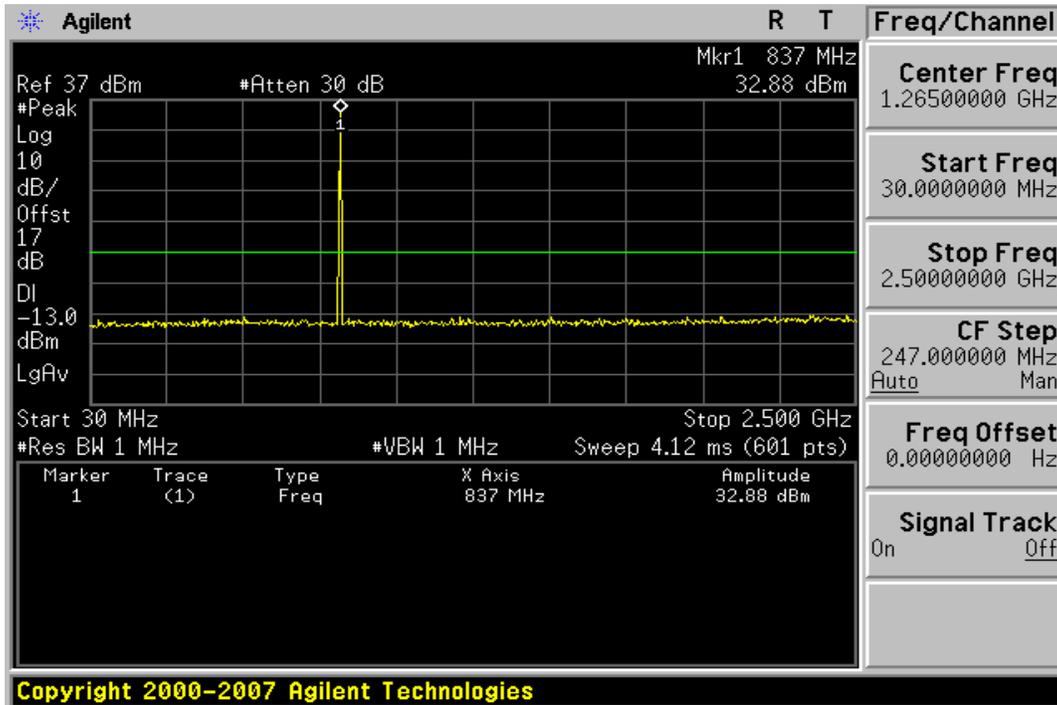
8.5. Measurement Result:

Figure 8-1: Out of Band emission at antenna terminals– GSM 850 Channel Lowest



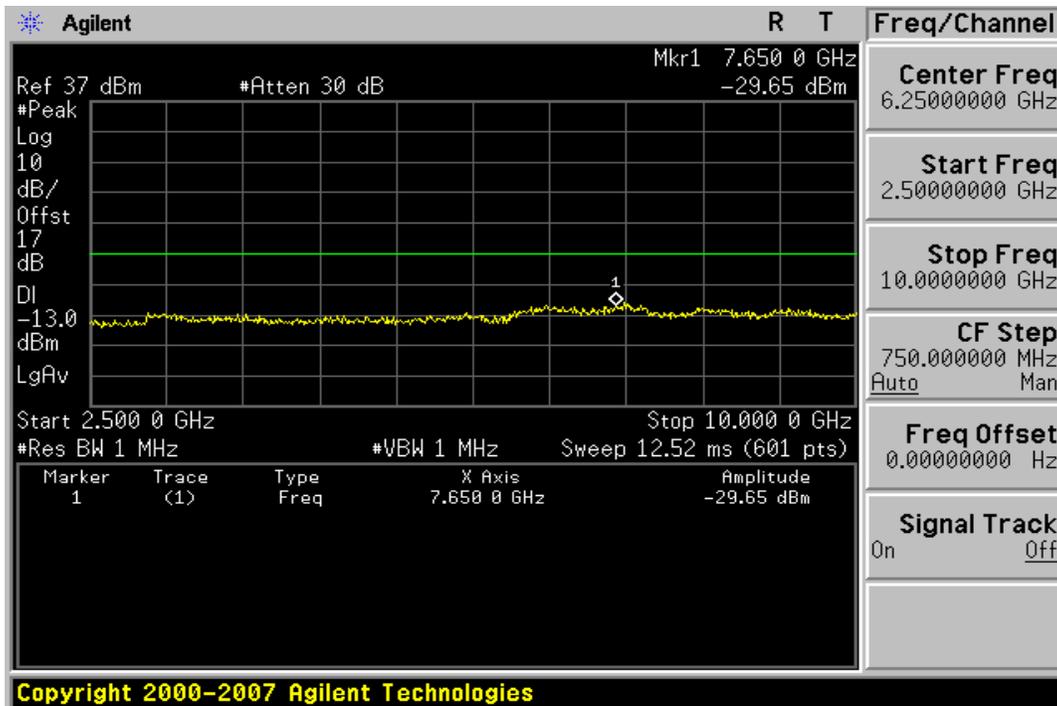
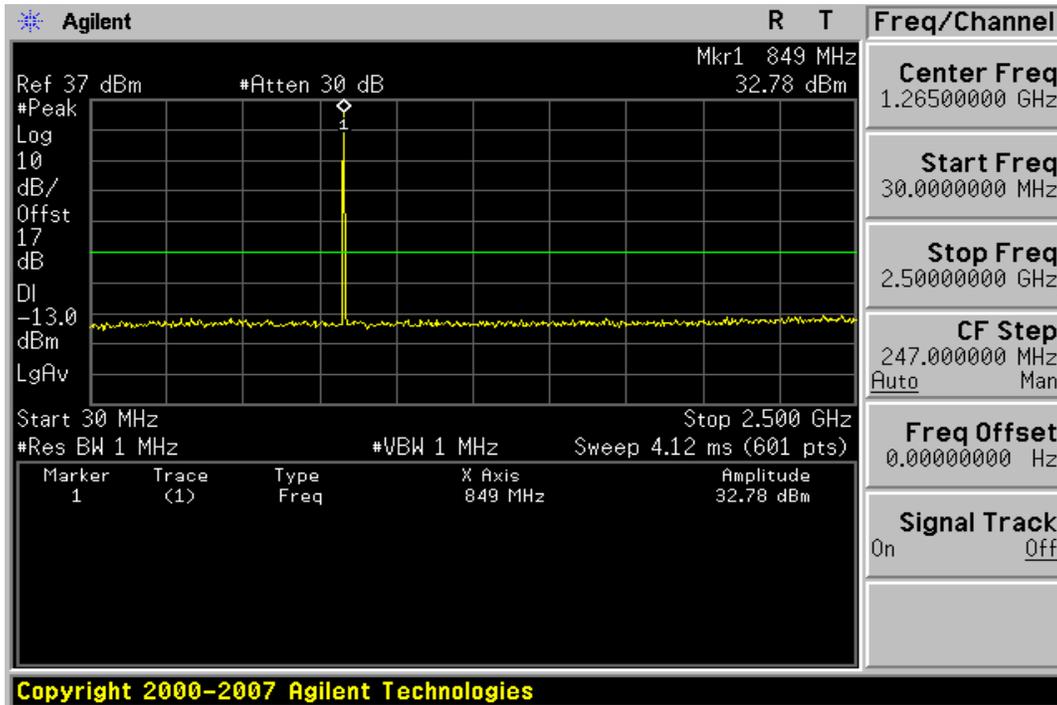
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Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals–GSM 850 Channel Highest



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Figure 8-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

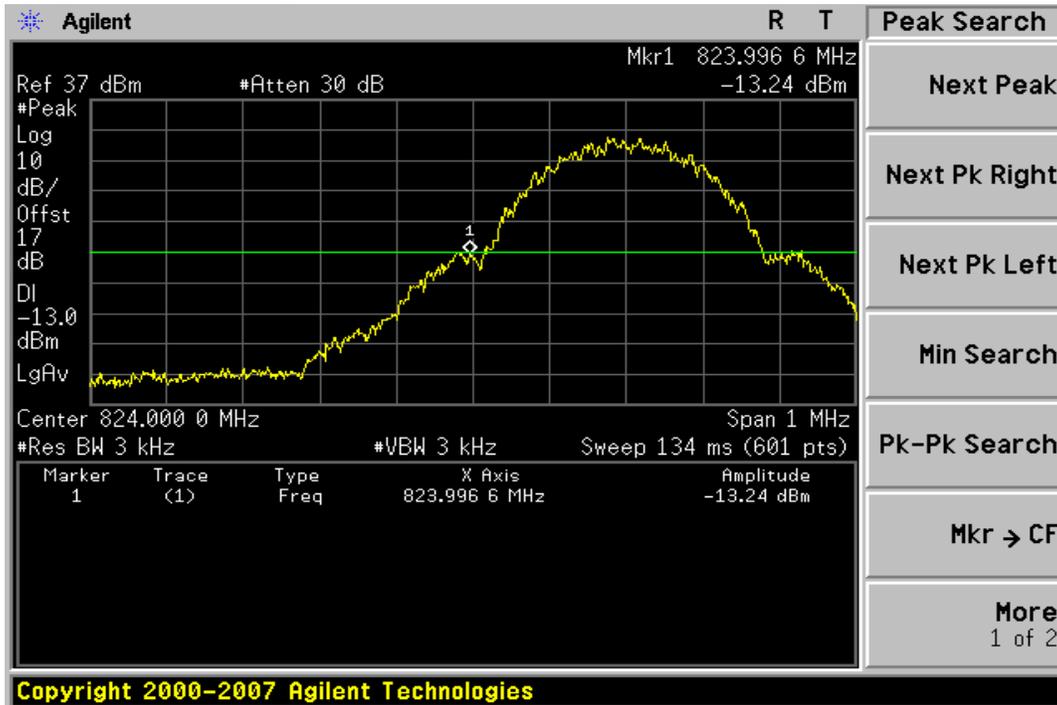
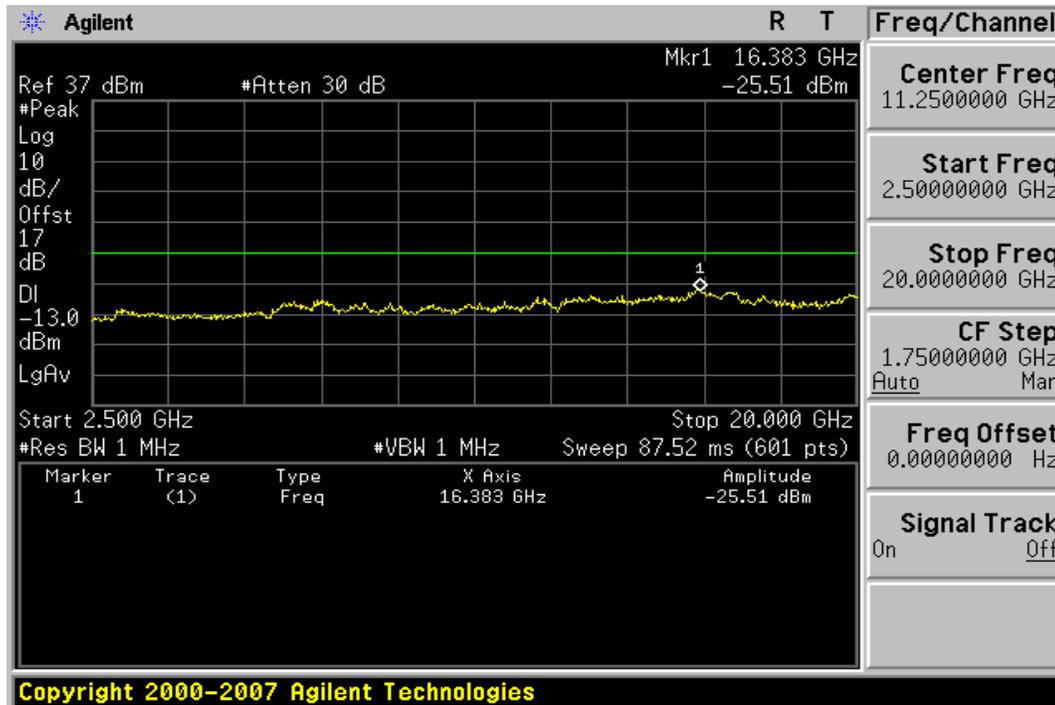
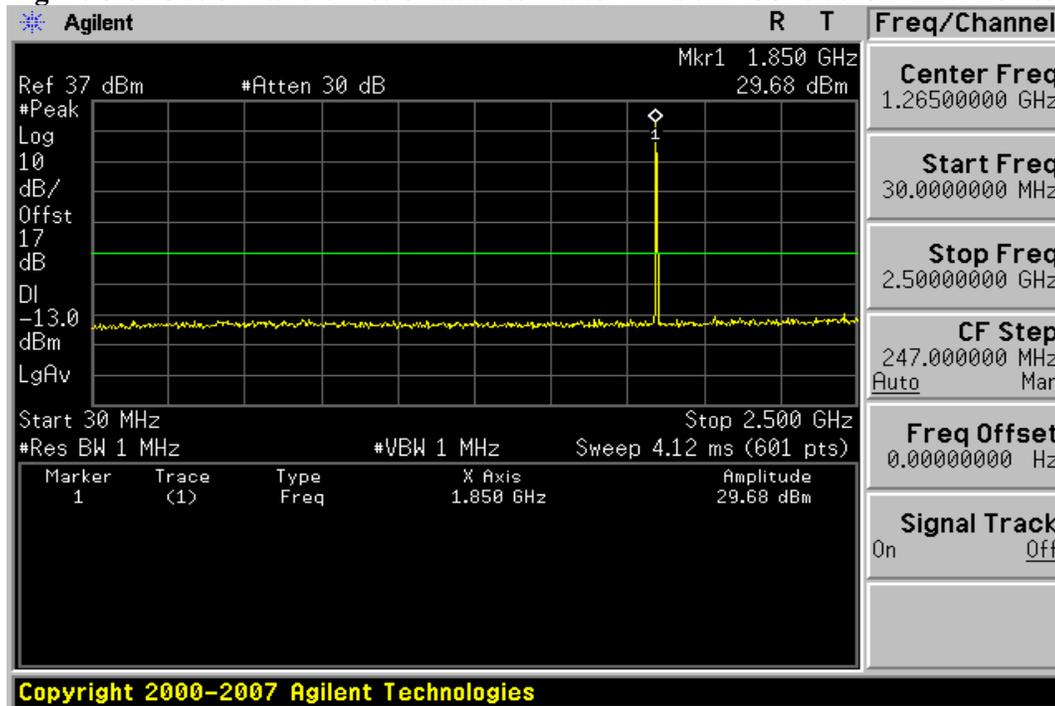


Figure 8-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



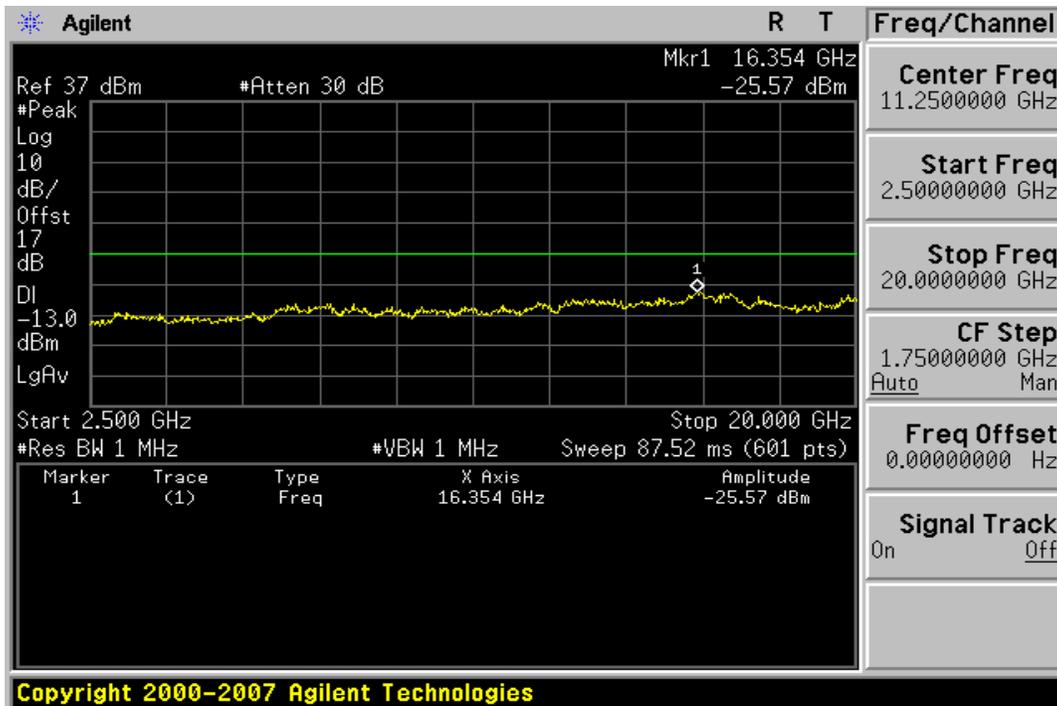
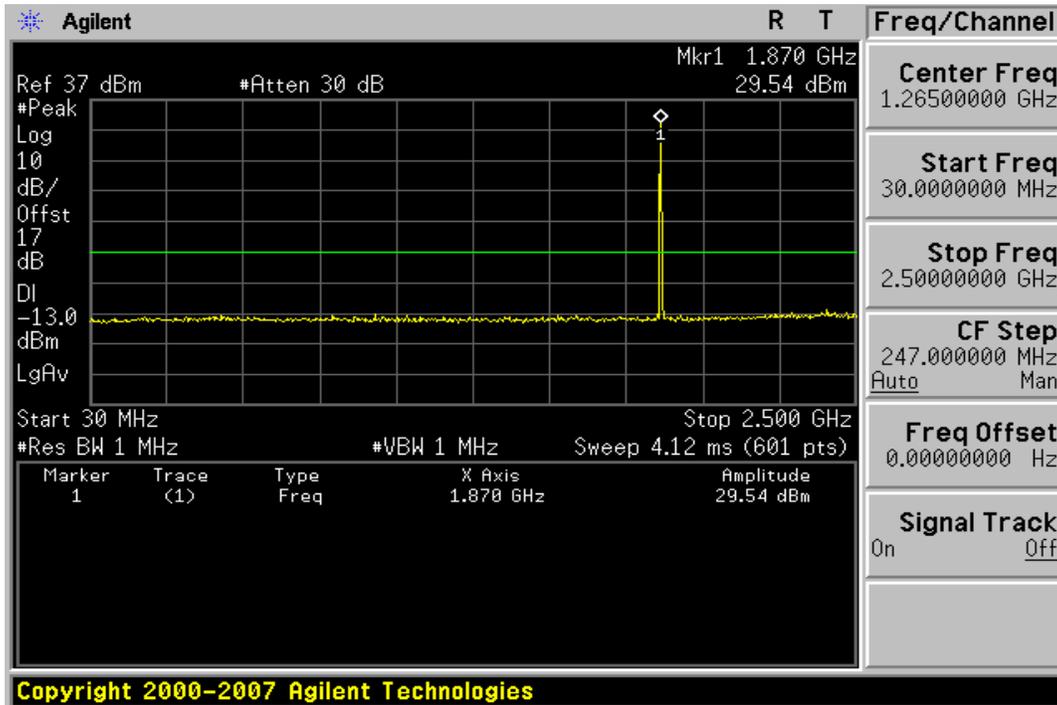
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Figure 8-6: Out of Band emission at antenna terminals– PCS 1900 Channel Lowest



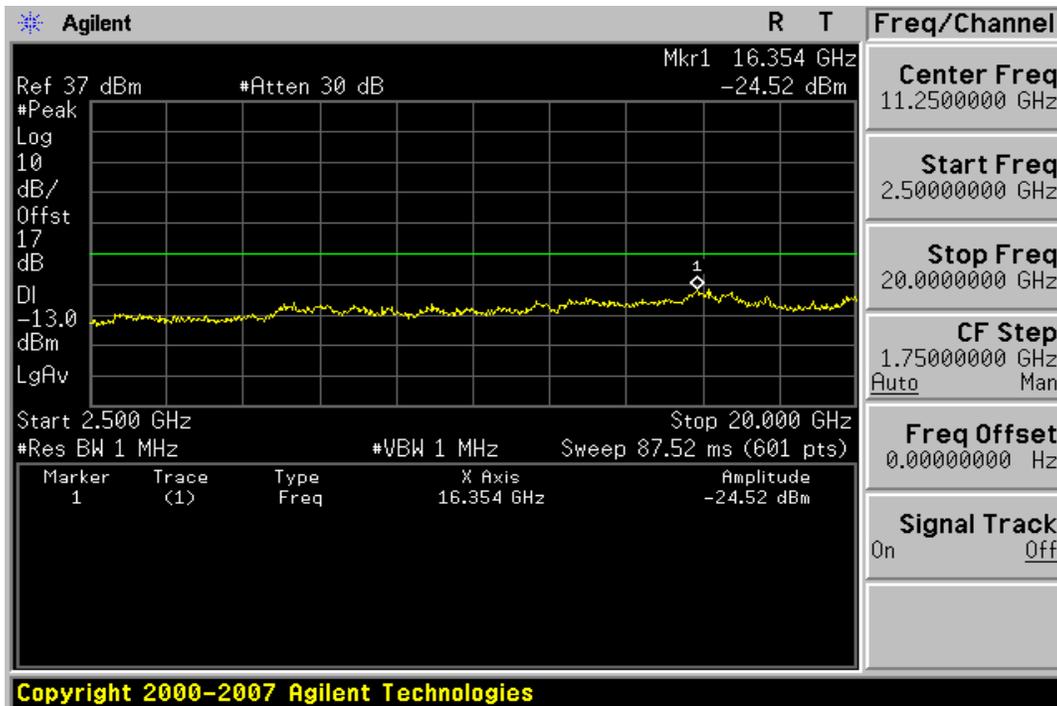
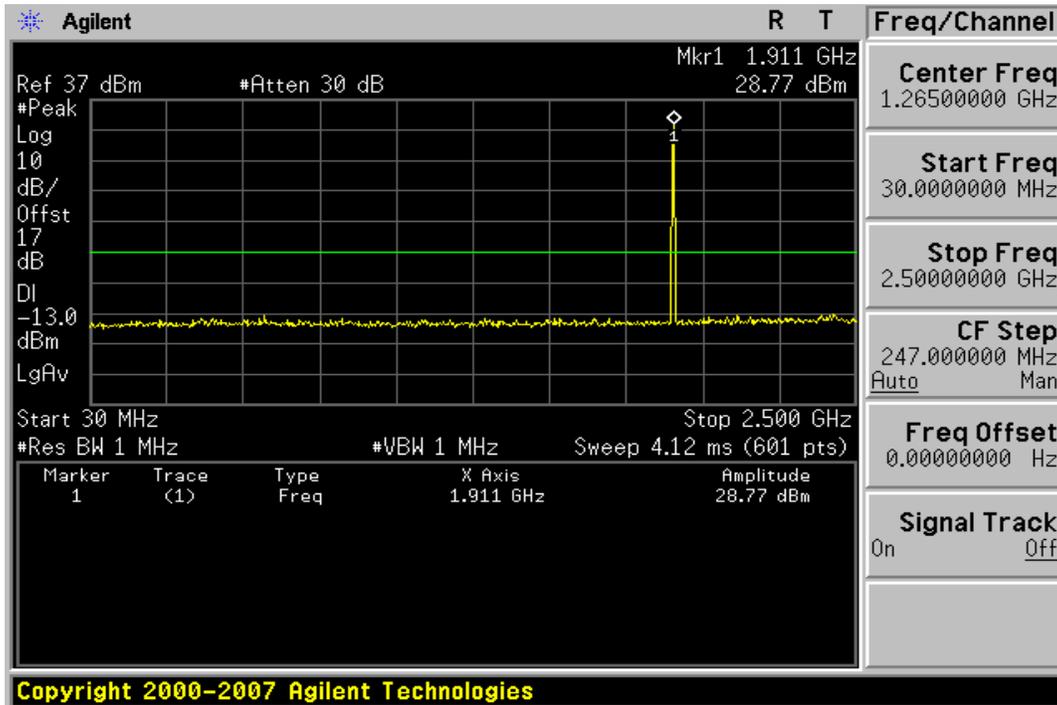
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Figure 8-7: Out of Bandd emission at antenna terminals –PCS 1900 Channel Mid



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



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Figure 8-9: Bad edge emission at antenna terminals – PCS 1900 Channel Lowest

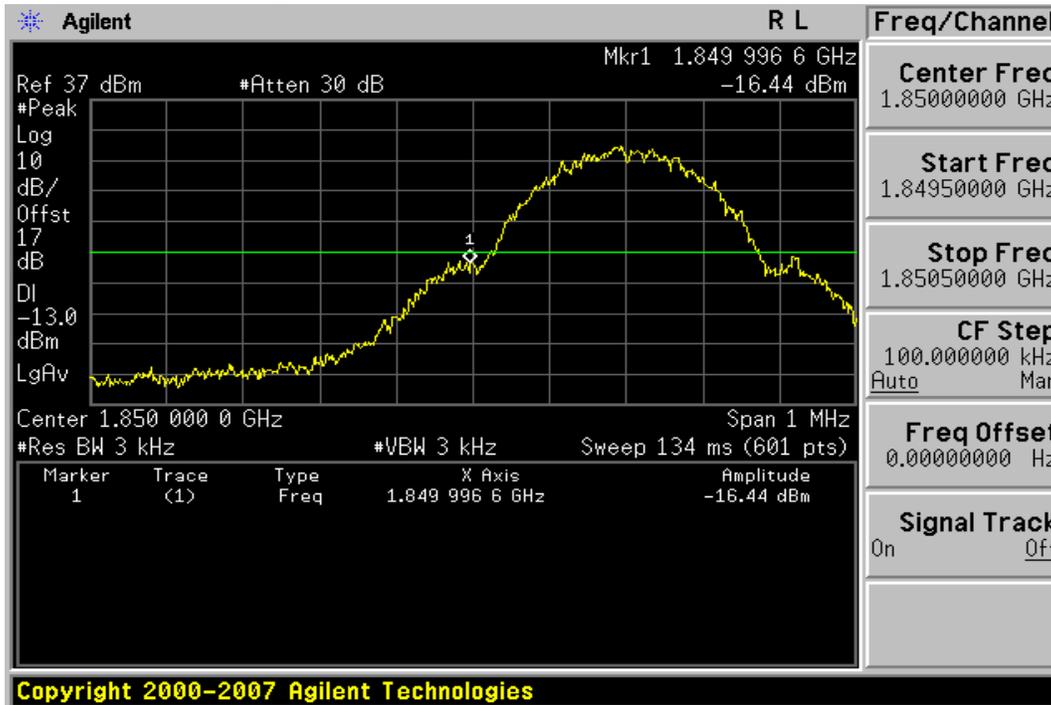
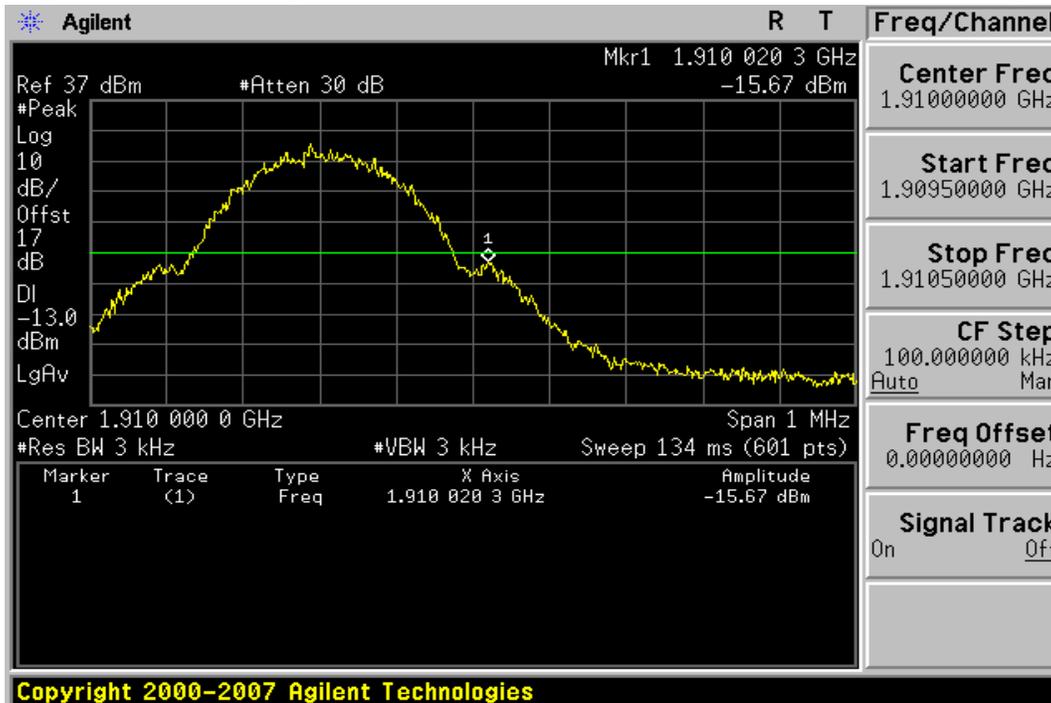
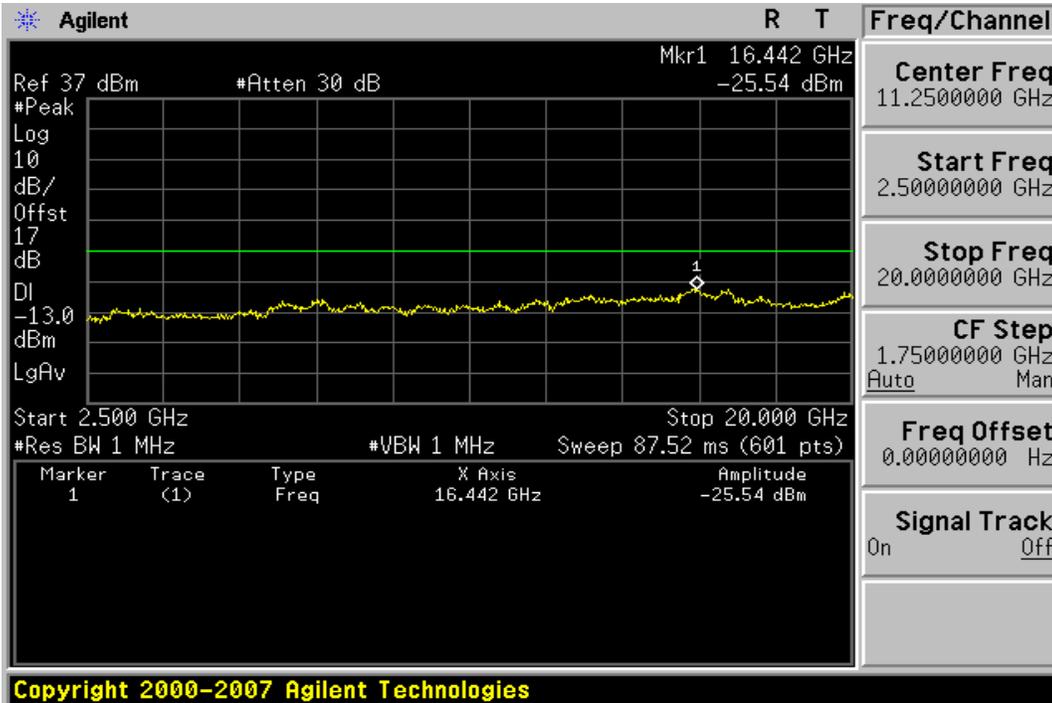
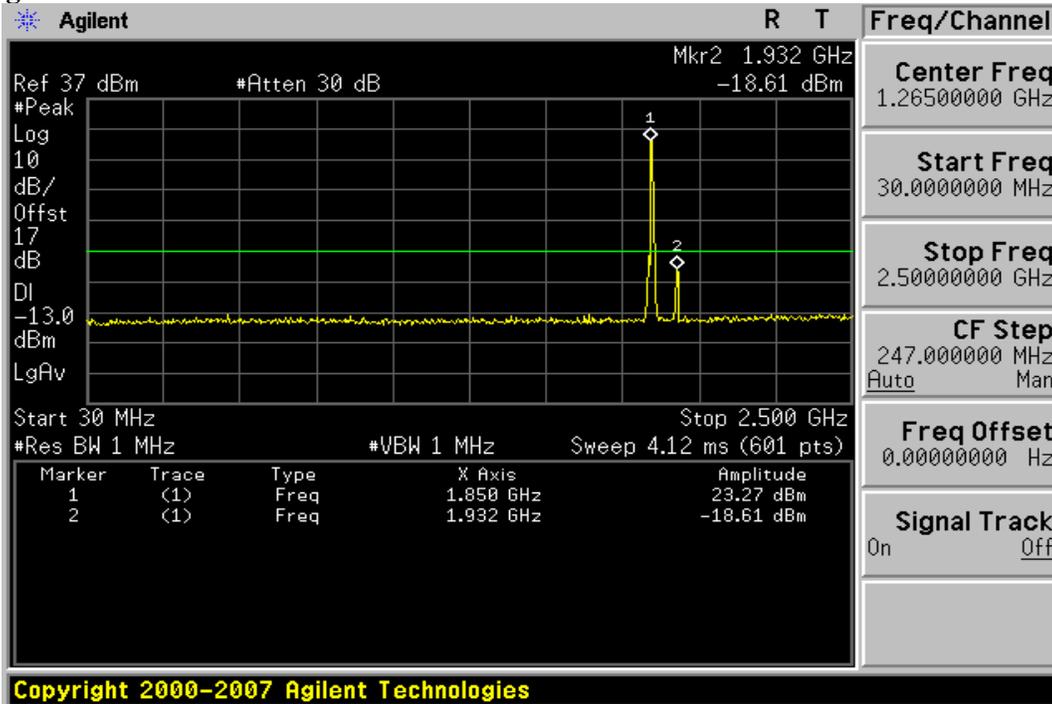


Figure 8-10: Band edge emission at antenna terminals – PCS 1900 Channel Highest



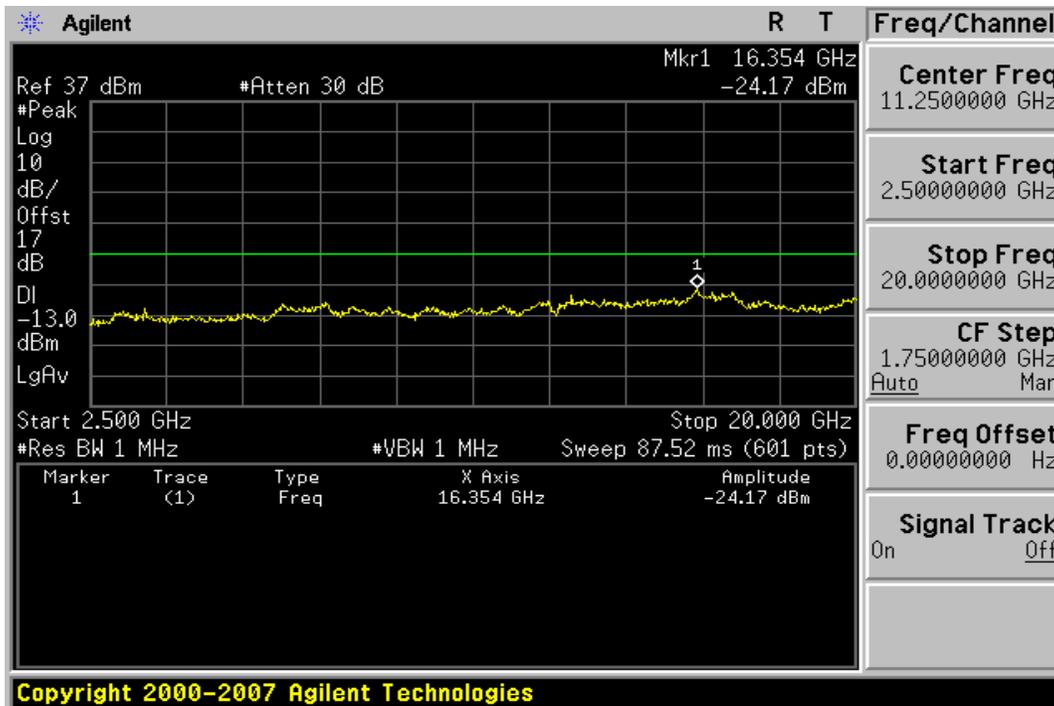
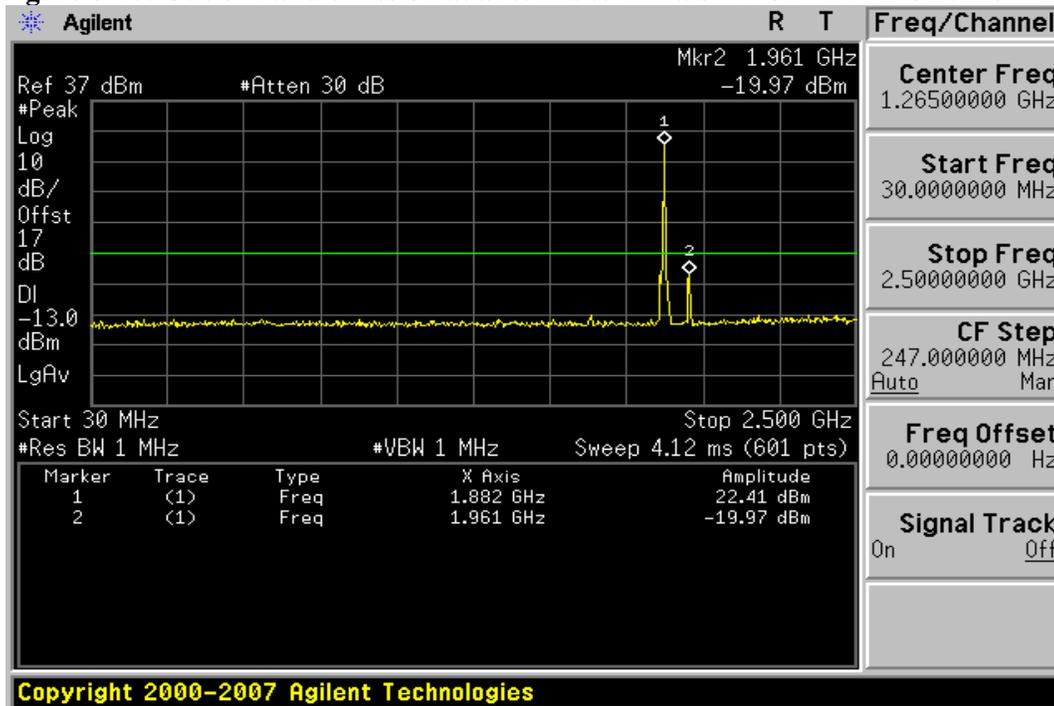
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Figure 8-15: Out of Band emission at antenna terminals–WCDMA B2 Channel Lowest



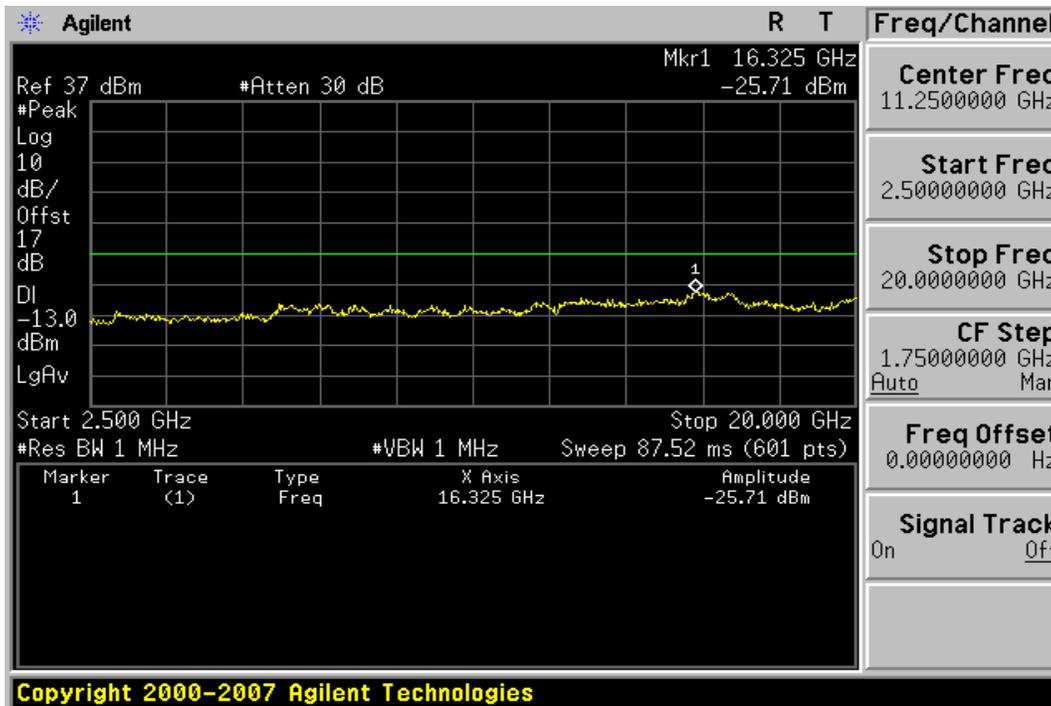
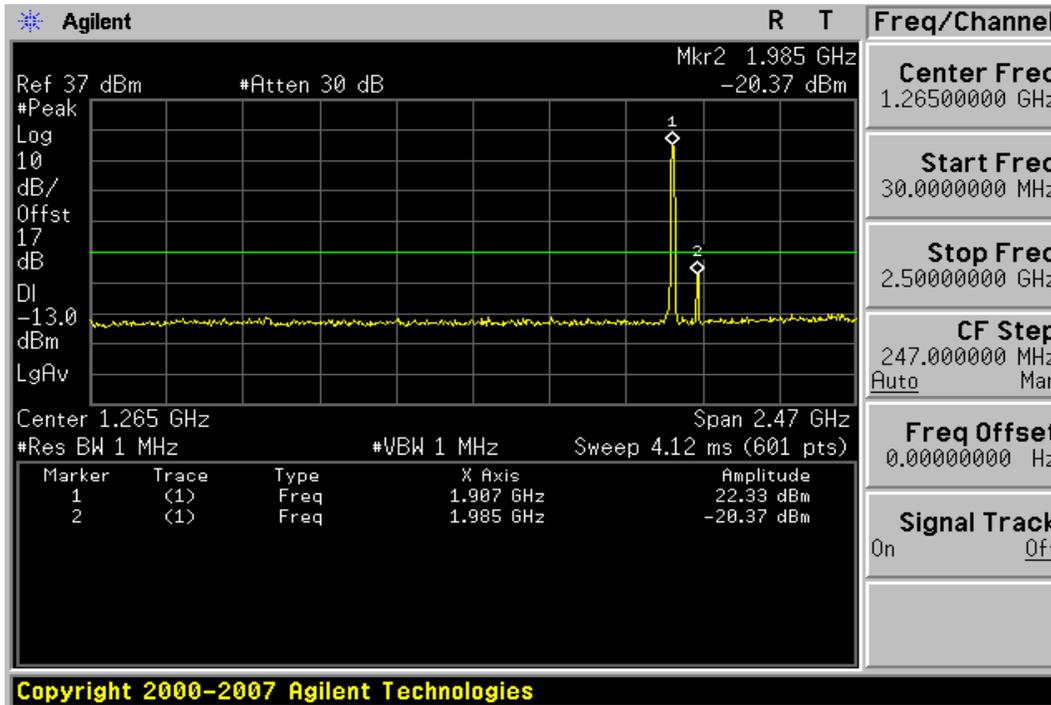
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Figure 8-16: Out of Band emission at antenna terminals –WCDMA B2 Channel Mid



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Figure 8-17: Out of Band emission at antenna terminals–WCDMA B2 Channel Highest



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Figure 8-18: Band edge emission at antenna terminals –WCDMA B2 Channel Lowest

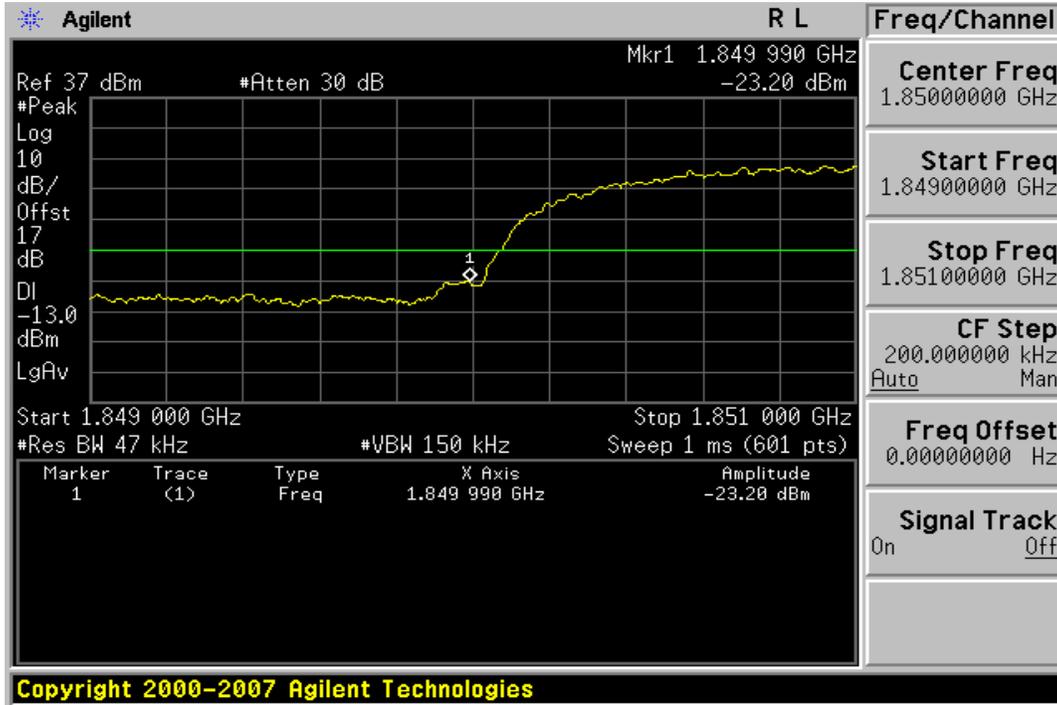
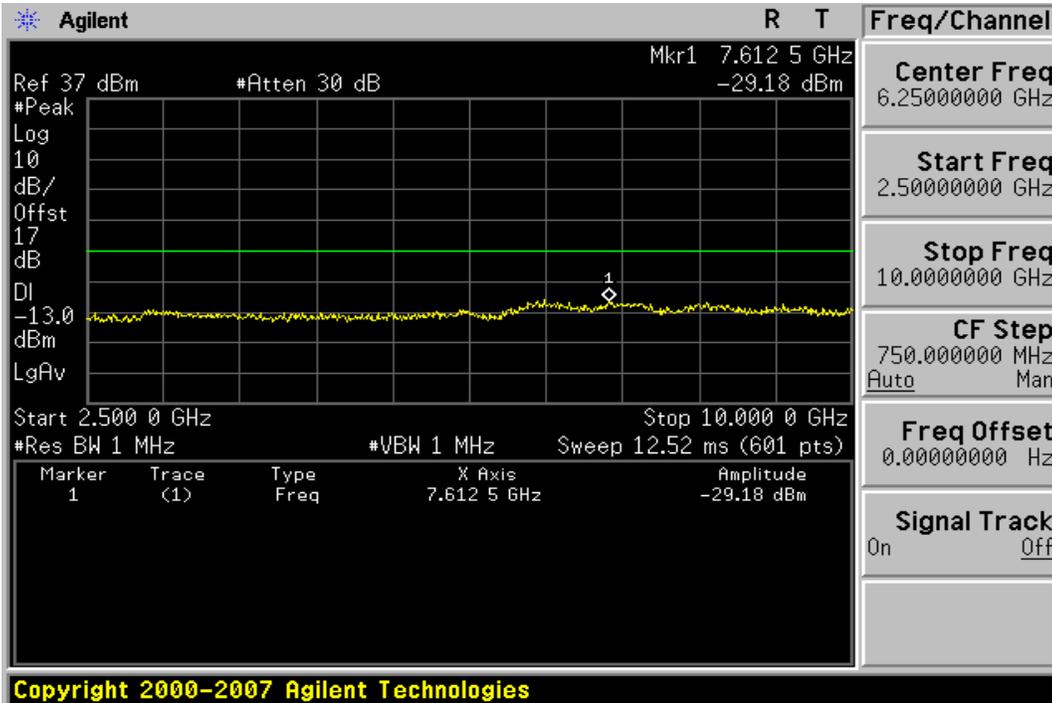
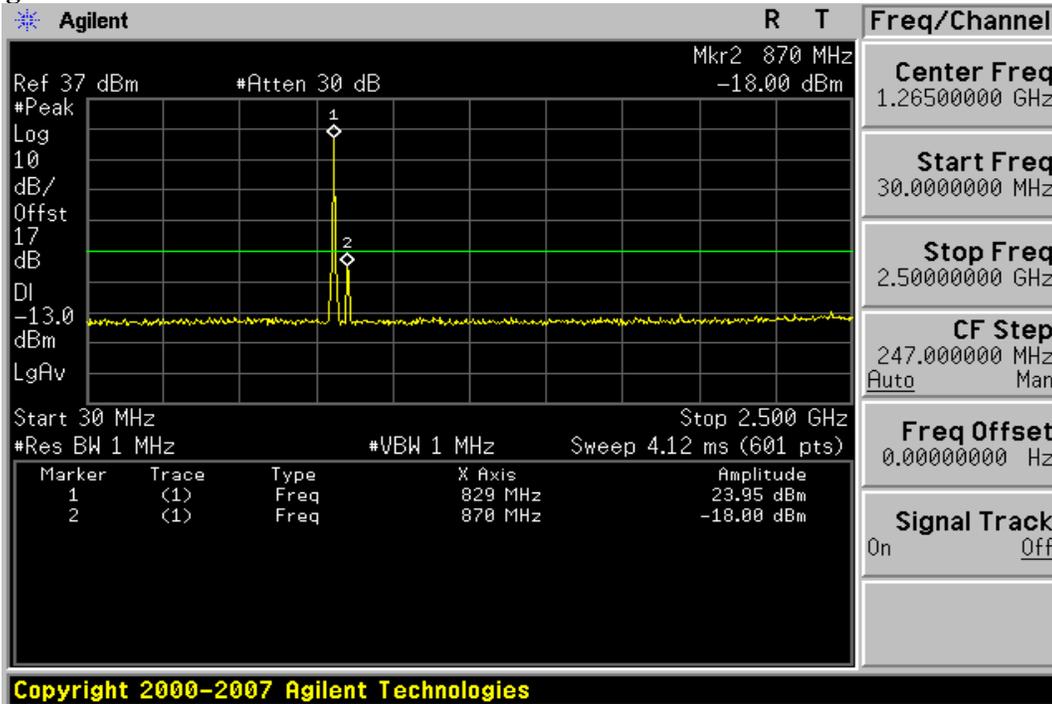


Figure 8-19: Band edge emission at antenna terminals –WCDMA B2 Channel Highest



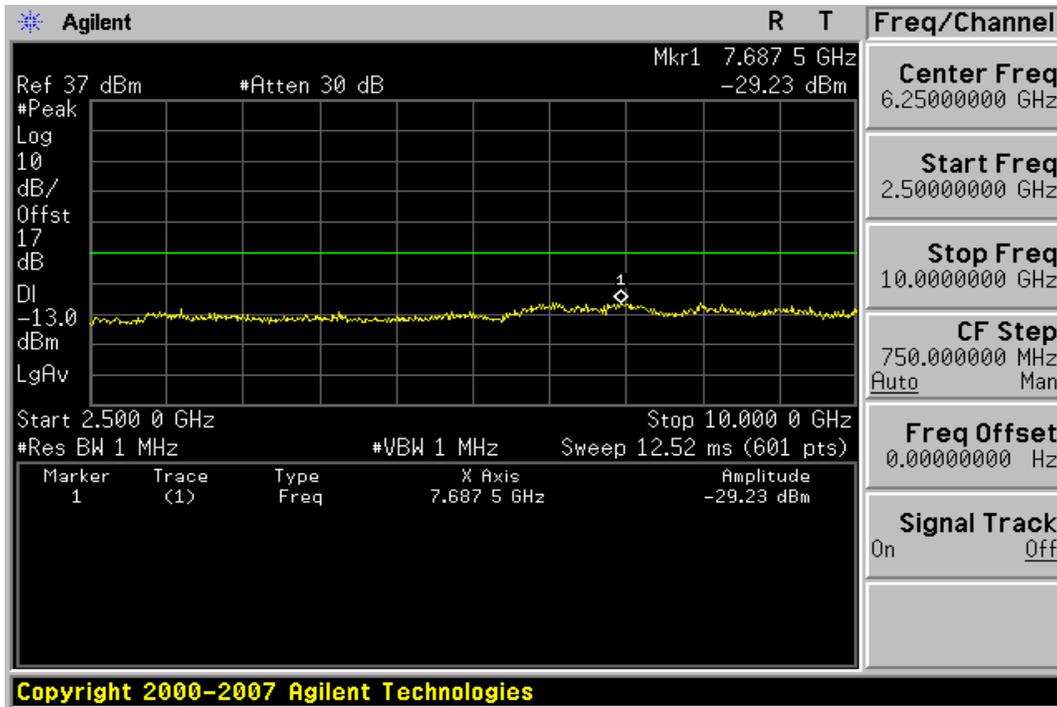
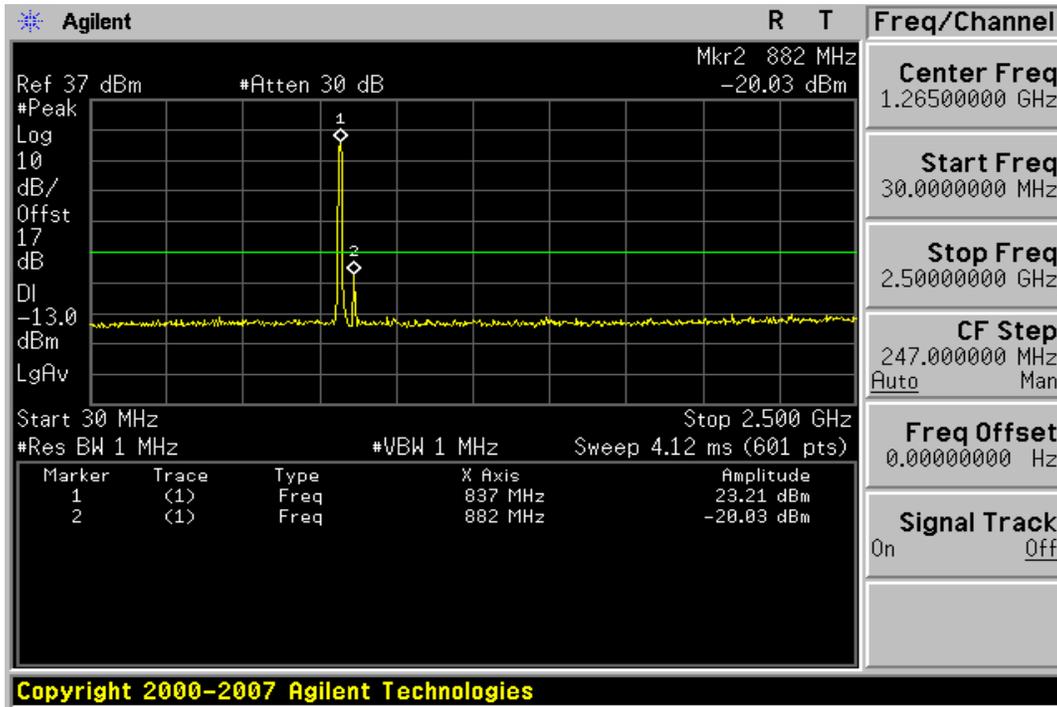
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Figure 8-20: Out of Band emission at antenna terminals–WCDMA B5 Channel Lowest



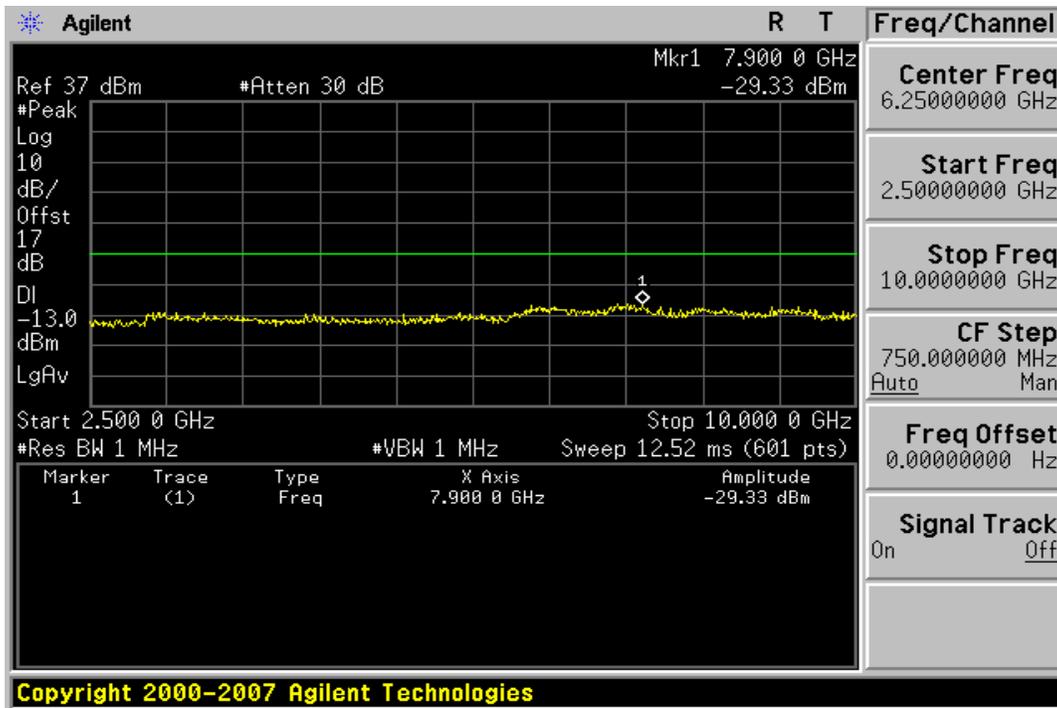
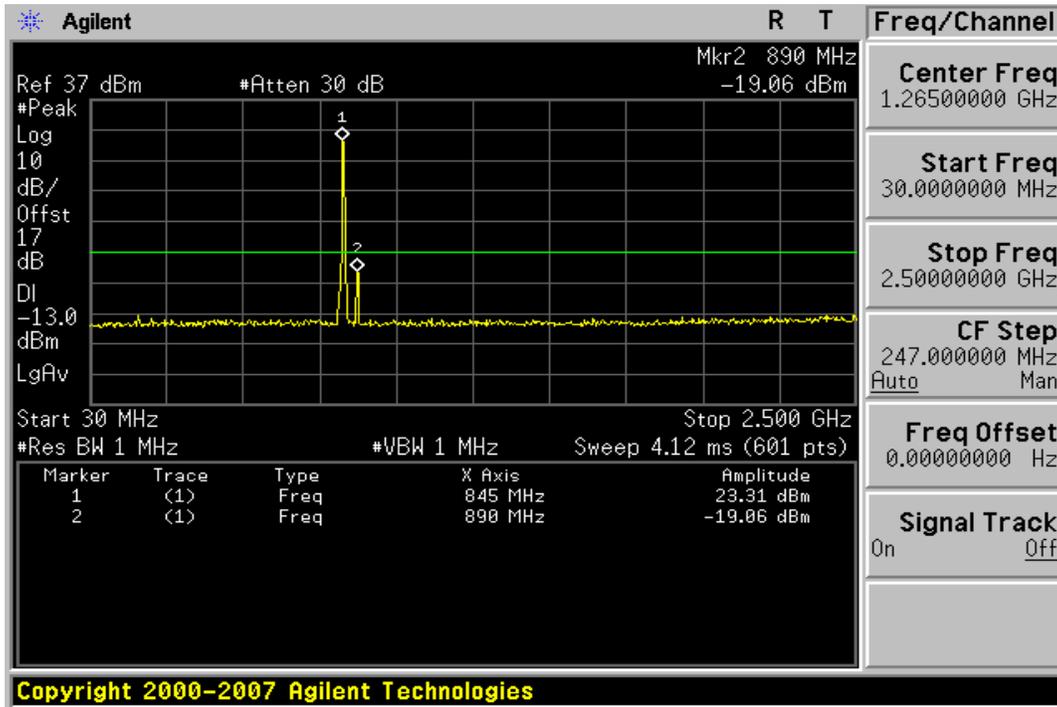
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Figure 8-21: Out of Band emission at antenna terminals –WCDMA B5 Channel Mid



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Figure 8-22: Out of Band emission at antenna terminals–WCDMA B5 Channel Highest



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Figure 8-23: Band edge emission at antenna terminals –WCDMA B5 Channel Lowest

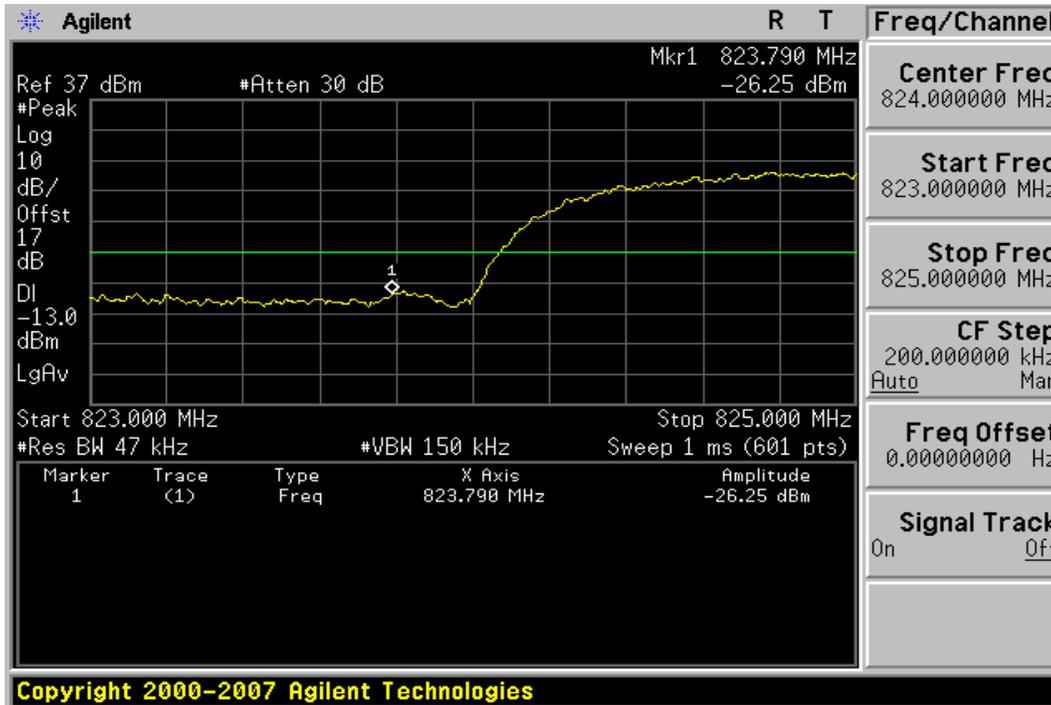
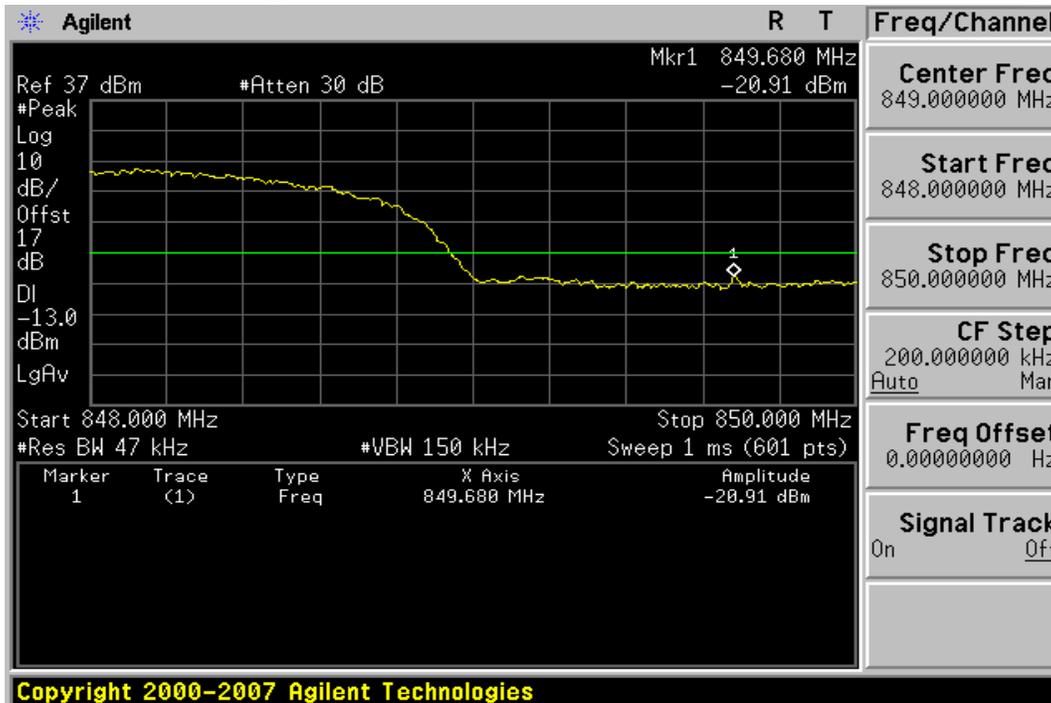


Figure 8-24: Band edge emission at antenna terminals –WCDMA B5 Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. 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)

9.2. EUT Setup (Block Diagram of Configuration):

Refer to section 6.2 in this report

9.3. 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 were identified, the power of the emission was determined using the substitution method.

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

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

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E1 Mode Test Date: May. 01, 2009
 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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
56.19	43.08	V	-66.58	-0.51	1.09	-68.19	-13.00	-55.19
77.53	45.34	V	-66.08	-2.12	1.21	-69.41	-13.00	-56.41
153.19	32.71	V	-64.87	-7.80	1.60	-74.27	-13.00	-61.27
247.28	32.64	V	-67.35	-7.89	1.97	-77.21	-13.00	-64.21
824.00	80.64	V	-5.75	-7.87	3.62	-17.25	-13.00	-4.25
1648.40	53.95	V	-50.63	9.29	5.23	-46.57	-13.00	-33.57
2472.60	61.44	V	-39.57	10.08	6.53	-36.02	-13.00	-23.02
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	40.20	V	-45.33	12.05	11.30	-44.58	-13.00	-31.58
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E1 Mode Test Date: May. 01, 2009
 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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	39.83	H	-66.59	-0.92	1.09	-68.61	-13.00	-55.61
72.68	40.81	H	-71.52	-1.45	1.18	-74.14	-13.00	-61.14
96.93	38.99	H	-64.24	-7.76	1.33	-73.33	-13.00	-60.33
153.19	31.25	H	-66.77	-7.80	1.60	-76.17	-13.00	-63.17
366.59	32.87	H	-64.07	-7.65	2.41	-74.13	-13.00	-61.13
824.00	80.37	H	-5.90	-7.87	3.62	-17.40	-13.00	-4.40
1648.40	57.19	H	-47.21	9.29	5.23	-43.15	-13.00	-30.15
2472.60	58.52	H	-42.39	10.08	6.53	-38.84	-13.00	-25.84
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	52.44	H	-33.08	12.05	11.30	-32.33	-13.00	-19.33
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	May. 01, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
56.19	42.97	V	-66.69	-0.51	1.09	-68.30	-13.00	-55.30
77.53	44.62	V	-66.80	-2.12	1.21	-70.13	-13.00	-57.13
104.69	44.69	V	-56.80	-7.76	1.38	-65.94	-13.00	-52.94
153.19	32.36	V	-65.22	-7.80	1.60	-74.62	-13.00	-61.62
1673.20	53.09	V	-51.47	9.36	5.27	-47.37	-13.00	-34.37
2509.80	47.25	V	-53.53	10.09	6.58	-50.03	-13.00	-37.03
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	42.23	V	-42.79	11.95	11.39	-42.23	-13.00	-29.23
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	May. 01, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	40.16	H	-63.35	-2.31	0.93	-66.59	-13.00	-53.59
72.68	40.42	H	-71.91	-1.45	1.18	-74.53	-13.00	-61.53
106.63	39.79	H	-62.52	-7.77	1.39	-71.67	-13.00	-58.67
159.98	31.44	H	-67.10	-7.81	1.61	-76.53	-13.00	-63.53
439.34	32.26	H	-62.17	-7.69	2.63	-72.49	-13.00	-59.49
1673.20	51.84	H	-52.54	9.36	5.27	-48.44	-13.00	-35.44
2509.80	49.98	H	-50.72	10.09	6.58	-47.22	-13.00	-34.22
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	49.19	H	-35.82	11.95	11.39	-35.26	-13.00	-22.26
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E1 Mode Test Date: May. 01, 2009
 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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
72.68	44.07	V	-67.60	-1.45	1.18	-70.22	-13.00	-57.22
90.14	43.98	V	-59.20	-7.75	1.27	-68.22	-13.00	-55.22
153.19	33.10	V	-64.48	-7.80	1.60	-73.88	-13.00	-60.88
303.54	32.39	V	-65.82	-7.90	2.18	-75.90	-13.00	-62.90
449.04	31.72	V	-62.24	-7.70	2.66	-72.60	-13.00	-59.60
850.00	80.44	V	-5.67	-7.88	3.68	-17.23	-13.00	-4.23
1697.60	53.52	V	-51.02	9.44	5.31	-46.89	-13.00	-33.89
2546.40	43.63	V	-57.01	10.20	6.63	-53.45	-13.00	-40.45
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	May. 01, 2009
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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	40.54	H	-62.97	-2.31	0.93	-66.21	-13.00	-53.21
72.68	40.57	H	-71.76	-1.45	1.18	-74.38	-13.00	-61.38
96.93	40.12	H	-63.11	-7.76	1.33	-72.20	-13.00	-59.20
143.49	31.83	H	-66.62	-7.79	1.56	-75.98	-13.00	-62.98
850.00	77.83	H	-8.36	-7.88	3.68	-19.92	-13.00	-6.92
1697.60	51.56	H	-52.79	9.44	5.31	-48.66	-13.00	-35.66
2546.40	45.45	H	-55.15	10.20	6.63	-51.59	-13.00	-38.59
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	44.88	H	-39.64	11.86	11.48	-39.27	-13.00	-26.27
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May. 01, 2009
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
56.19	42.10	V	-67.56	-0.51	1.09	-69.17	-13.00	-56.17
77.53	77.53	V	-33.89	-2.12	1.21	-37.22	-13.00	-24.22
104.69	46.86	V	-54.63	-7.76	1.38	-63.77	-13.00	-50.77
1850.00	66.18	V	-38.21	9.90	5.56	-33.87	-13.00	-20.87
3700.40	49.13	V	-48.80	12.61	8.31	-44.50	-13.00	-31.50
5550.60	38.22	V	-52.62	13.23	10.33	-49.72	-13.00	-36.72
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May. 01, 2009
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	39.55	H	-63.96	-2.31	0.93	-67.20	-13.00	-54.20
70.74	39.91	H	-72.40	-1.18	1.16	-74.74	-13.00	-61.74
104.69	39.44	H	-63.07	-7.76	1.38	-72.21	-13.00	-59.21
1850.00	75.31	H	-28.87	9.90	5.56	-24.53	-13.00	-11.53
3700.40	46.52	H	-51.52	12.61	8.31	-47.22	-13.00	-34.22
5550.60	39.74	H	-51.31	13.23	10.33	-48.41	-13.00	-35.41
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1880MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
56.19	41.55	V	-68.11	-0.51	1.09	-69.72	-13.00	-56.72
104.69	45.15	V	-56.34	-7.76	1.38	-65.48	-13.00	-52.48
153.19	33.65	V	-63.93	-7.80	1.60	-73.33	-13.00	-60.33
3760.00	40.10	V	-57.56	12.60	8.39	-53.34	-13.00	-40.34
5640.00	37.07	V	-53.51	13.36	10.41	-50.56	-13.00	-37.56
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1880MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	39.68	H	-63.83	-2.31	0.93	-67.07	-13.00	-54.07
70.74	39.81	H	-72.50	-1.18	1.16	-74.84	-13.00	-61.84
104.69	39.41	H	-63.10	-7.76	1.38	-72.24	-13.00	-59.24
3760.00	48.61	H	-49.16	12.60	8.39	-44.95	-13.00	-31.95
5640.00	36.47	H	-54.28	13.36	10.41	-51.33	-13.00	-38.33
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May. 01, 2009
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
56.19	42.00	V	-67.66	-0.51	1.09	-69.27	-13.00	-56.27
77.53	44.44	V	-66.98	-2.12	1.21	-70.31	-13.00	-57.31
104.69	44.75	V	-56.74	-7.76	1.38	-65.88	-13.00	-52.88
159.98	32.61	V	-65.58	-7.81	1.61	-75.00	-13.00	-62.00
1910.00	65.61	V	-38.72	10.08	5.66	-34.30	-13.00	-21.30
3819.60	37.86	V	-59.53	12.60	8.47	-55.40	-13.00	-42.40
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	May. 01, 2009
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	40.22	H	-63.29	-2.31	0.93	-66.53	-13.00	-53.53
70.74	40.06	H	-72.25	-1.18	1.16	-74.59	-13.00	-61.59
104.69	39.66	H	-62.85	-7.76	1.38	-71.99	-13.00	-58.99
145.43	32.18	H	-66.07	-7.80	1.57	-75.43	-13.00	-62.43
1910.00	76.83	H	-27.28	10.08	5.66	-22.86	-13.00	-9.86
3819.60	44.22	H	-53.29	12.60	8.47	-49.15	-13.00	-36.15
5729.40	36.89	H	-53.56	13.49	10.50	-50.57	-13.00	-37.57
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band II Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1852.40MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	43.18	V	-63.00	-0.92	1.09	-65.02	-13.00	-52.02
64.92	42.59	V	-68.96	-0.77	1.11	-70.84	-13.00	-57.84
90.14	44.07	V	-59.11	-7.75	1.27	-68.13	-13.00	-55.13
172.59	38.11	V	-61.21	-7.82	1.64	-70.67	-13.00	-57.67
225.94	35.87	V	-64.93	-7.87	1.86	-74.65	-13.00	-61.65
1850.00	64.08	V	-40.31	9.90	5.56	-35.97	-13.00	-22.97
3704.80	43.72	V	-54.19	12.61	8.31	-49.90	-13.00	-36.90
5557.20	---	V		13.24	10.33		-13.00	
7409.60	---	V		11.49	12.09		-13.00	
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band II Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1852.40MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	40.54	H	-71.77	-1.18	1.16	-74.11	-13.00	-61.11
104.69	39.58	H	-62.93	-7.76	1.38	-72.07	-13.00	-59.07
159.98	39.69	H	-58.85	-7.81	1.61	-68.28	-13.00	-55.28
216.24	37.36	H	-63.50	-7.86	1.80	-73.16	-13.00	-60.16
245.34	36.91	H	-62.54	-7.89	1.96	-72.39	-13.00	-59.39
1850.00	56.94	H	-47.24	9.90	5.56	-42.90	-13.00	-29.90
3704.80	34.77	H	-63.25	12.61	8.31	-58.96	-13.00	-45.96
5557.20	---	H		13.24	10.33		-13.00	
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band II Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1880MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	43.35	V	-62.83	-0.92	1.09	-64.85	-13.00	-51.85
77.53	44.52	V	-66.90	-2.12	1.21	-70.23	-13.00	-57.23
99.84	43.04	V	-58.90	-7.76	1.36	-68.02	-13.00	-55.02
162.89	37.48	V	-60.97	-7.81	1.62	-70.40	-13.00	-57.40
225.94	36.68	V	-64.12	-7.87	1.86	-73.84	-13.00	-60.84
1868.00	57.78	V	-46.59	9.95	5.59	-42.23	-13.00	-29.23
3760.00	39.72	V	-57.94	12.60	8.39	-53.72	-13.00	-40.72
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band II Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1880MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	40.87	H	-71.44	-1.18	1.16	-73.78	-13.00	-60.78
104.69	39.60	H	-62.91	-7.76	1.38	-72.05	-13.00	-59.05
164.83	39.72	H	-59.20	-7.81	1.63	-68.64	-13.00	-55.64
213.33	37.86	H	-63.14	-7.85	1.78	-72.78	-13.00	-59.78
245.34	36.15	H	-63.30	-7.89	1.96	-73.15	-13.00	-60.15
1868.00	56.98	H	-47.18	9.95	5.59	-42.82	-13.00	-29.82
3760.00	36.97	H	-60.80	12.60	8.39	-56.59	-13.00	-43.59
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band II Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1907.6 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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	43.67	V	-62.51	-0.92	1.09	-64.53	-13.00	-51.53
77.53	44.73	V	-66.69	-2.12	1.21	-70.02	-13.00	-57.02
96.93	43.03	V	-59.28	-7.76	1.33	-68.37	-13.00	-55.37
159.98	36.89	V	-61.30	-7.81	1.61	-70.72	-13.00	-57.72
225.94	36.95	V	-63.85	-7.87	1.86	-73.57	-13.00	-60.57
1910.00	63.41	V	-40.92	10.08	5.66	-36.50	-13.00	-23.50
3815.20	40.53	V	-56.88	12.60	8.46	-52.74	-13.00	-39.74
5230.00	---	V		12.88	10.02		-13.00	
5722.80	---	V		13.48	10.49		-13.00	
7630.40	---	V		11.41	12.27		-13.00	
9538.00	---	V		11.95	13.73		-13.00	
11445.60	---	V		12.15	15.42		-13.00	
13353.20	---	V		13.00	16.81		-13.00	
15260.80	---	V		14.91	18.28		-13.00	
17168.40	---	V		14.53	19.50		-13.00	
19076.00	---	V		18.65	20.76		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band II Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 1907.6 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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	39.67	H	-63.84	-2.31	0.93	-67.08	-13.00	-54.08
70.74	41.94	H	-70.37	-1.18	1.16	-72.71	-13.00	-59.71
104.69	40.33	H	-62.18	-7.76	1.38	-71.32	-13.00	-58.32
159.98	39.80	H	-58.74	-7.81	1.61	-68.17	-13.00	-55.17
218.18	37.86	H	-62.91	-7.86	1.81	-72.58	-13.00	-59.58
1910.00	56.30	H	-47.81	10.08	5.66	-43.39	-13.00	-30.39
3815.20	36.88	H	-60.65	12.60	8.46	-56.51	-13.00	-43.51
5477.50	---	H		13.13	10.26		-13.00	
5722.80	---	H		13.48	10.49		-13.00	
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 826.4MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	44.00	V	-62.18	-0.92	1.09	-64.20	-13.00	-51.20
77.53	45.35	V	-66.07	-2.12	1.21	-69.40	-13.00	-56.40
101.78	45.03	V	-56.73	-7.76	1.37	-65.85	-13.00	-52.85
159.98	35.34	V	-62.85	-7.81	1.61	-72.27	-13.00	-59.27
218.18	36.89	V	-64.20	-7.86	1.81	-73.87	-13.00	-60.87
825.00	56.08	V	-30.30	-7.88	3.63	-41.80	-13.00	-28.80
1652.80	---	V		9.30	5.23		-13.00	
2479.20	35.97	V	-64.99	10.07	6.54	-61.46	-13.00	-48.46
3305.60	---	V		12.19	7.73		-13.00	
4132.00	---	V		12.62	8.87		-13.00	
4958.40	---	V		12.65	9.75		-13.00	
5784.80	---	V		13.58	10.55		-13.00	
6611.20	---	V		12.03	11.31		-13.00	
7437.60	---	V		11.48	12.12		-13.00	
8264.00	---	V		11.50	12.73		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band V Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 826.4MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	39.88	H	-63.63	-2.31	0.93	-66.87	-13.00	-53.87
70.74	40.85	H	-71.46	-1.18	1.16	-73.80	-13.00	-60.80
90.14	41.56	H	-62.17	-7.75	1.27	-71.19	-13.00	-58.19
104.69	39.46	H	-63.05	-7.76	1.38	-72.19	-13.00	-59.19
825.00	58.18	H	-28.09	-7.88	3.63	-39.59	-13.00	-26.59
1652.80	---	H		9.30	5.23		-13.00	
2479.20	38.93	H	-61.94	10.07	6.54	-58.40	-13.00	-45.40
3305.60	---	H		12.19	7.73		-13.00	
4132.00	---	H		12.62	8.87		-13.00	
4958.40	---	H		12.65	9.75		-13.00	
5784.80	---	H		13.58	10.55		-13.00	
6611.20	---	H		12.03	11.31		-13.00	
7437.60	---	H		11.48	12.12		-13.00	
8264.00	---	H		11.50	12.73		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 836.6MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	43.50	V	-62.68	-0.92	1.09	-64.70	-13.00	-51.70
72.68	44.44	V	-67.23	-1.45	1.18	-69.85	-13.00	-56.85
101.78	43.84	V	-57.92	-7.76	1.37	-67.04	-13.00	-54.04
153.19	36.00	V	-61.58	-7.80	1.60	-70.98	-13.00	-57.98
218.18	37.40	V	-63.69	-7.86	1.81	-73.36	-13.00	-60.36
1673.20	---	V		9.36	5.27		-13.00	
2509.80	40.42	V	-60.36	10.09	6.58	-56.86	-13.00	-43.86
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band V Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 836.6MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	40.34	H	-63.17	-2.31	0.93	-66.41	-13.00	-53.41
70.74	41.58	H	-70.73	-1.18	1.16	-73.07	-13.00	-60.07
104.69	40.25	H	-62.26	-7.76	1.38	-71.40	-13.00	-58.40
148.34	36.66	H	-61.28	-7.80	1.58	-70.66	-13.00	-57.66
218.18	36.50	H	-64.27	-7.86	1.81	-73.94	-13.00	-60.94
1673.20	---	H		9.36	5.27		-13.00	
2509.80	38.63	H	-62.07	10.09	6.58	-58.57	-13.00	-45.57
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band V Mode

Operation Mode	: TX CH High H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 846.6MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
48.43	43.38	V	-62.80	-0.92	1.09	-64.82	-13.00	-51.82
72.68	44.11	V	-67.56	-1.45	1.18	-70.18	-13.00	-57.18
104.69	44.60	V	-56.89	-7.76	1.38	-66.03	-13.00	-53.03
153.19	35.14	V	-62.44	-7.80	1.60	-71.84	-13.00	-58.84
218.18	36.69	V	-64.40	-7.86	1.81	-74.07	-13.00	-61.07
850.00	57.76	V	-28.35	-7.88	3.68	-39.91	-13.00	-26.91
1693.20	---	V		9.42	5.30		-13.00	
2539.80	39.31	V	-61.36	10.18	6.62	-57.81	-13.00	-44.81
3386.40	---	V		12.36	7.85		-13.00	
4233.00	---	V		12.63	8.99		-13.00	
5079.60	---	V		12.73	9.87		-13.00	
5926.20	---	V		13.79	10.69		-13.00	
6772.80	---	V		11.87	11.47		-13.00	
7619.40	---	V		11.41	12.26		-13.00	
8466.00	---	V		11.68	12.89		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band V Mode

Operation Mode	: TX CH High H Mode	Test Date:	May. 01, 2009
Fundamental Frequency	: 846.6MHz	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 (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
41.64	40.01	H	-63.50	-2.31	0.93	-66.74	-13.00	-53.74
70.74	41.44	H	-70.87	-1.18	1.16	-73.21	-13.00	-60.21
90.14	41.47	H	-62.26	-7.75	1.27	-71.28	-13.00	-58.28
104.69	39.76	H	-62.75	-7.76	1.38	-71.89	-13.00	-58.89
148.34	37.00	H	-60.94	-7.80	1.58	-70.32	-13.00	-57.32
850.00	60.76	H	-25.43	-7.88	3.68	-36.99	-13.00	-23.99
1693.20	39.15	H	-65.20	9.42	5.30	-61.08	-13.00	-48.08
2539.80	37.20	H	-63.42	10.18	6.62	-59.86	-13.00	-46.86
3386.40	---	H		12.36	7.85		-13.00	
4233.00	---	H		12.63	8.99		-13.00	
5079.60	---	H		12.73	9.87		-13.00	
5926.20	---	H		13.79	10.69		-13.00	
6772.80	---	H		11.87	11.47		-13.00	
7619.40	---	H		11.41	12.26		-13.00	
8466.00	---	H		11.68	12.89		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

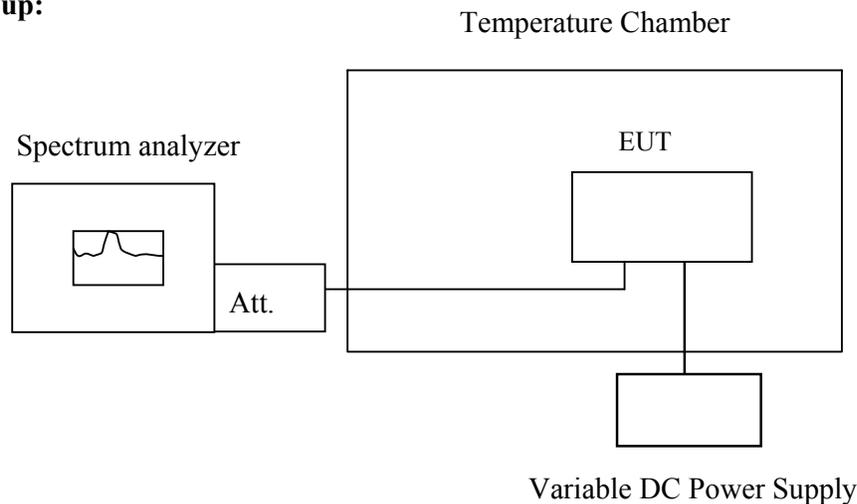
10.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

10.2. Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3. 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.

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Reference Frequency: GSM 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	836.600018	-9.00	2091
3.7	-20	836.600009	0.00	2091
3.7	-10	836.600001	8.00	2091
3.7	0	836.600015	-6.00	2091
3.7	10	836.600024	-15.00	2091
3.7	20	836.600009	0.00	2091
3.7	30	836.600017	7.30	2091
3.7	40	836.600008	1.00	2091
3.7	50	836.600005	4.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999979	-5.00	4700
3.7	-20	1879.999983	-9.00	4700
3.7	-10	1879.999994	-20.00	4700
3.7	0	1879.999980	-6.00	4700
3.7	10	1879.999991	-17.00	4700
3.7	20	1879.999974	0.00	4700
3.7	30	1879.999983	-9.00	4700
3.7	40	1879.999991	-17.00	4700
3.7	50	1879.999982	-8.00	4700

Note: The battery is rated 3.7V dc.

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Reference Frequency: WCDMA Band II Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999992	17.00	4700
3.7	-20	1879.999998	11.00	4700
3.7	-10	1879.999981	28.00	4700
3.7	0	1880.000006	3.00	4700
3.7	10	1880.000014	-5.00	4700
3.7	20	1880.000009	0.00	4700
3.7	30	1879.999984	25.00	4700
3.7	40	1879.999988	21.00	4700
3.7	50	1879.999995	14.00	4700

Reference Frequency: WCDMA Band V 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	836.600004	10.00	2091
3.7	-20	836.599998	16.00	2091
3.7	-10	836.599987	27.00	2091
3.7	0	836.600003	11.00	2091
3.7	10	836.600008	6.00	2091
3.7	20	836.600014	0.00	2091
3.7	30	836.599995	19.00	2091
3.7	40	836.599983	31.00	2091
3.7	50	836.599999	15.00	2091

Note: The battery is rated 3.7V dc.

11. FREQUENCY STABILITY V.S. VOLTAGE 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:

Refer to section 10.2 in this report

11.3. 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.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

11.5. Measurement Result:

Reference Frequency: GSM 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)		
4.20	25.00	836.600009	-4.00	2091.00
3.70	25.00	836.600005	0.00	2091.00
3.50	25.00	836.599994	11.00	2091.00
3.3 (End Point)	25.00	836.599991	14.00	2091.00

Reference Frequency: PCS 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	1879.999888	106.00	4700
3.7	25	1879.999994	0.00	4700
3.5	25	1879.999991	3.00	4700
3.3 (Endpoint)	25	1879.999976	18.00	4700

Note: The battery is rated 3.7V dc.

Reference Frequency: WCDMA Band II 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	1879.999984	-4.00	4700
3.7	25	1879.999980	0.00	4700
3.5	25	1879.999972	12.00	4700
3.3 (Endpoint)	25	1879.999981	3.00	4700

Reference Frequency: WCDMA Band V 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)		
4.20	25.00	836.599993	5.00	2091.00
3.70	25.00	836.599998	0.00	2091.00
3.50	25.00	836.600004	-11.00	2091.00
3.3 (End Point)	25.00	836.600001	-8.00	2091.00

Note: The battery is rated 3.7V dc.

12. AC POWER LINE CONDUCTED EMISSION TEST

12.1. Standard Applicable:

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 120Vac/60Hz power source.

12.3. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

12.4. Measurement Equipment Used:

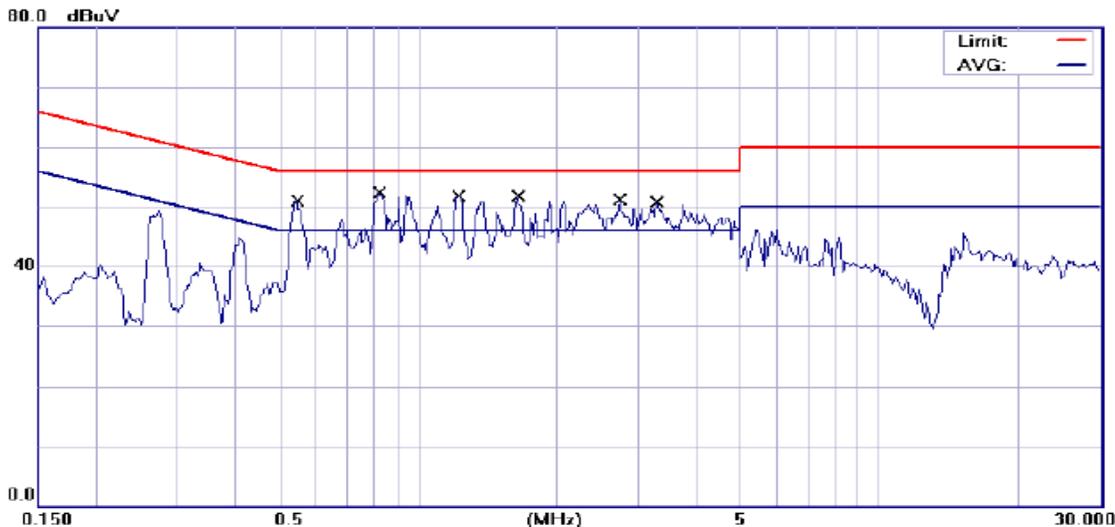
Refer to section 2.4 in this report

12.5. Measurement Result;

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK		Test Date:	May. 01, 2009	
Temperature:	22 °C	Humidity:	61 %	Test By:	Bondi



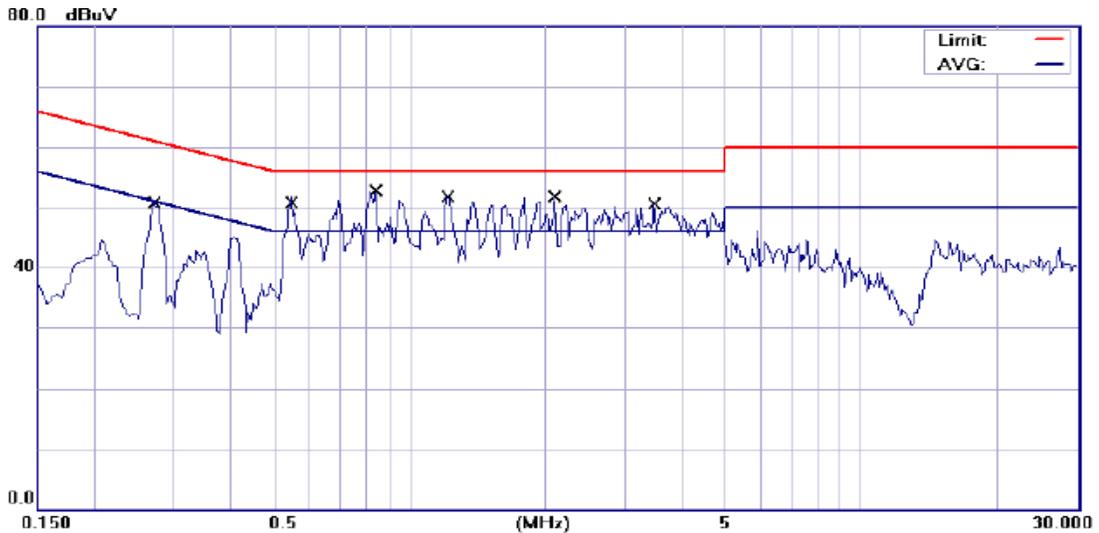
Site SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: RHOD300
 Note: GSM 850 Link

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 60 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5521	46.20	0.07	46.27	56.00	-9.73	QP	
2		0.5521	32.60	0.07	32.67	46.00	-13.33	AVG	
3	*	0.8152	48.00	0.08	48.08	56.00	-7.92	QP	
4		0.8152	36.70	0.08	36.78	46.00	-9.22	AVG	
5		1.2337	42.80	0.10	42.90	56.00	-13.10	QP	
6		1.2337	33.10	0.10	33.20	46.00	-12.80	AVG	
7		1.6334	41.50	0.12	41.62	56.00	-14.38	QP	
8		1.6334	32.80	0.12	32.92	46.00	-13.08	AVG	
9		2.7317	40.10	0.14	40.24	56.00	-15.76	QP	
10		2.7317	31.70	0.14	31.84	46.00	-14.16	AVG	
11		3.2753	39.50	0.14	39.64	56.00	-16.36	QP	
12		3.2753	30.30	0.14	30.44	46.00	-15.56	AVG	

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Site SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: RHOD300
 Note: GSM 850 Link

Phase: **N**
 Power: AC 120V/60Hz
 Distance:

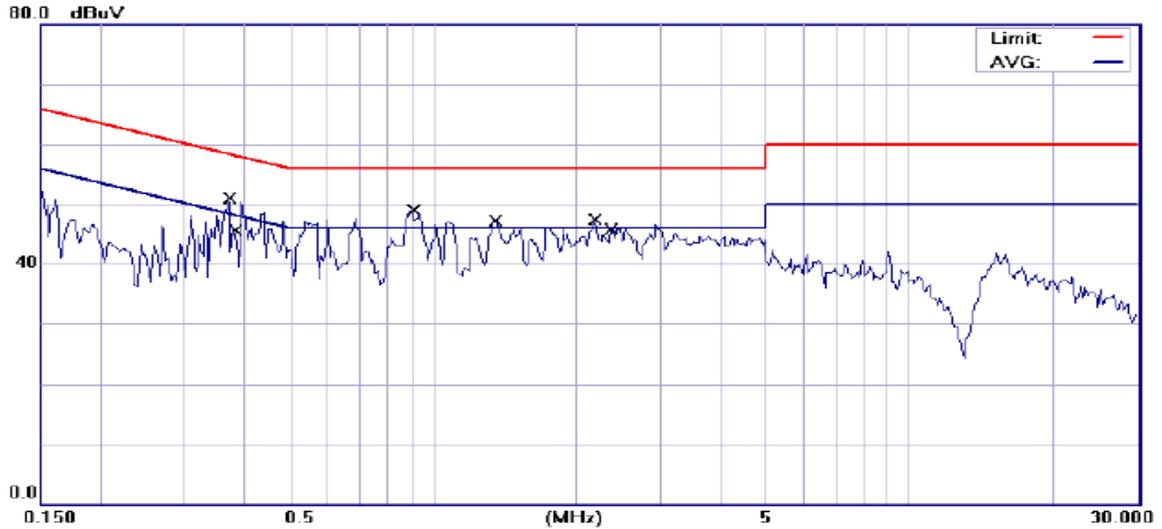
Temperature: 23 °C
 Humidity: 60 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2692	45.00	0.12	45.12	61.14	-16.02	QP	
2		0.2692	31.50	0.12	31.62	51.14	-19.52	AVG	
3	*	0.5526	45.90	0.08	45.98	56.00	-10.02	QP	
4		0.5526	32.00	0.08	32.08	46.00	-13.92	AVG	
5		0.8458	42.40	0.09	42.49	56.00	-13.51	QP	
6		0.8458	28.30	0.09	28.39	46.00	-17.61	AVG	
7		1.2057	40.40	0.11	40.51	56.00	-15.49	QP	
8		1.2057	25.80	0.11	25.91	46.00	-20.09	AVG	
9		2.1028	37.60	0.13	37.73	56.00	-18.27	QP	
10		2.1028	24.80	0.13	24.93	46.00	-21.07	AVG	
11		3.4668	38.00	0.15	38.15	56.00	-17.85	QP	
12		3.4668	25.10	0.15	25.25	46.00	-20.75	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link		Test Date:	May. 01, 2009	
Temperature:	22 °C	Humidity:	61 %	Test By:	Bondi



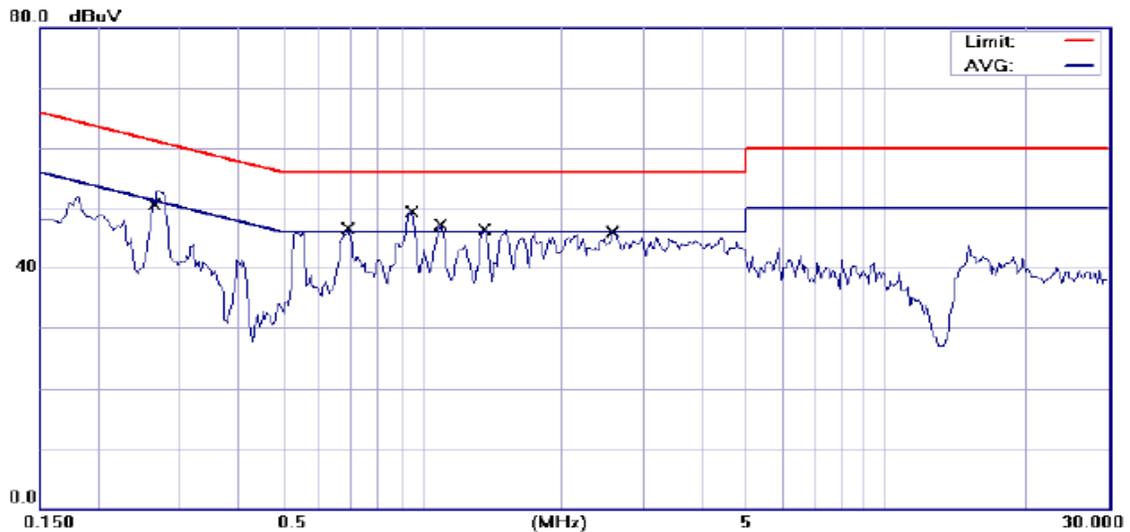
Site: SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: RHOD300
 Note: GSM 1900 Link

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 60 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3679	31.20	0.09	31.29	48.55	-17.26	AVG	
2		0.3727	43.80	0.09	43.89	58.44	-14.55	QP	
3		0.3868	43.80	0.08	43.88	58.13	-14.25	QP	
4		0.3868	33.90	0.08	33.98	48.13	-14.15	AVG	
5	*	0.9050	42.70	0.09	42.79	56.00	-13.21	QP	
6		0.9050	32.30	0.09	32.39	46.00	-13.61	AVG	
7		1.3499	40.80	0.10	40.90	56.00	-15.10	QP	
8		1.3499	28.90	0.10	29.00	46.00	-17.00	AVG	
9		2.1774	40.80	0.13	40.93	56.00	-15.07	QP	
10		2.1774	28.50	0.13	28.63	46.00	-17.37	AVG	
11		2.3952	38.60	0.13	38.73	56.00	-17.27	QP	
12		2.3952	29.10	0.13	29.23	46.00	-16.77	AVG	

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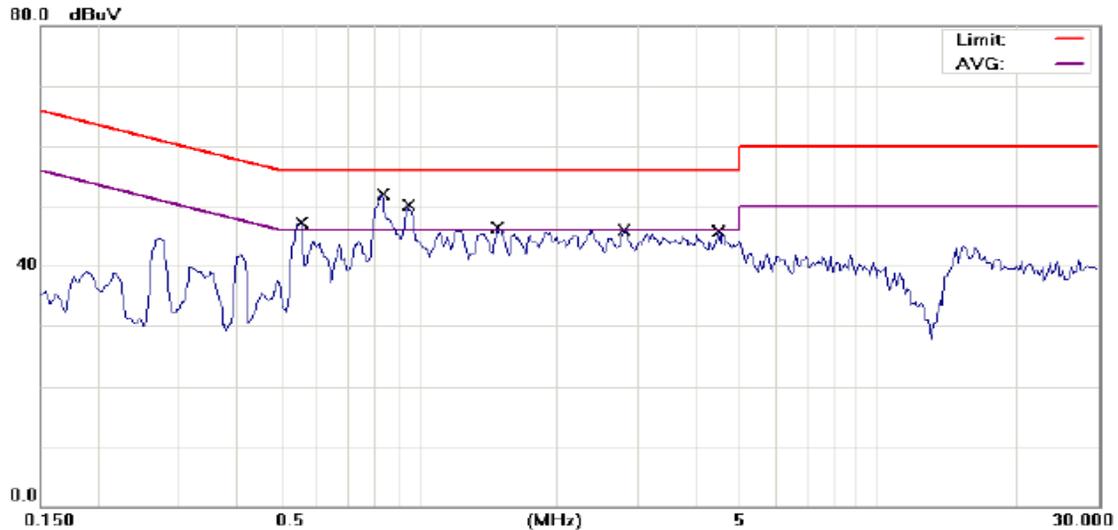
Site: SGS CONDUCTED #1	Phase: N	Temperature: 23 °C
Limit: CISPR22 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60 %
EUT: Pocket PC Phone	Distance:	Air Pressure: hpa
M/N: RHOD300		
Note: GSM 1900 Link		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2605	43.40	0.12	43.52	61.42	-17.90	QP	
2		0.2605	25.80	0.12	25.92	51.42	-25.50	AVG	
3	*	0.6936	43.00	0.09	43.09	56.00	-12.91	QP	
4		0.6936	29.80	0.09	29.89	46.00	-16.11	AVG	
5		0.9525	41.70	0.10	41.80	56.00	-14.20	QP	
6		0.9525	30.20	0.10	30.30	46.00	-15.70	AVG	
7		1.0861	42.30	0.10	42.40	56.00	-13.60	QP	
8		1.0861	27.40	0.10	27.50	46.00	-18.50	AVG	
9		1.3499	40.20	0.11	40.31	56.00	-15.69	QP	
10		1.3499	25.60	0.11	25.71	46.00	-20.29	AVG	
11		2.5630	38.70	0.14	38.84	56.00	-17.16	QP	
12		2.5630	26.90	0.14	27.04	46.00	-18.96	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA Band II LINK		Test Date:	May. 01, 2009	
Temperature:	22 °C	Humidity:	61 %	Test By:	Bondi



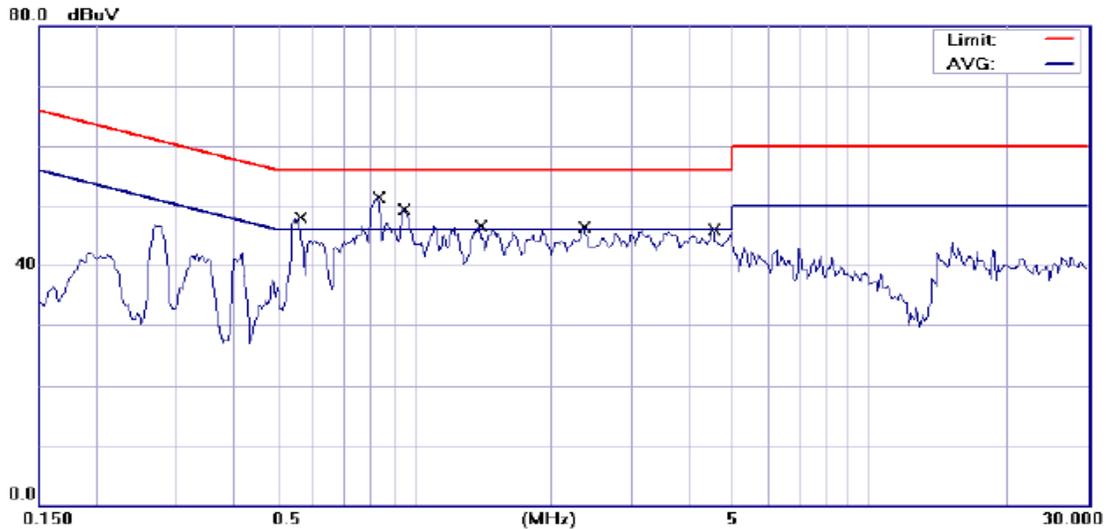
Site: SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: RHOD300
 Note: WCDMA Band 2 Link

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 60 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5556	44.90	0.07	44.97	56.00	-11.03	QP	
2		0.5556	32.20	0.07	32.27	46.00	-13.73	AVG	
3	*	0.8233	48.40	0.08	48.48	56.00	-7.52	QP	
4		0.8233	35.60	0.08	35.68	46.00	-10.32	AVG	
5		0.9406	46.70	0.09	46.79	56.00	-9.21	QP	
6		0.9406	33.30	0.09	33.39	46.00	-12.61	AVG	
7		1.4780	40.30	0.11	40.41	56.00	-15.59	QP	
8		1.4780	27.20	0.11	27.31	46.00	-18.69	AVG	
9		2.8074	39.00	0.14	39.14	56.00	-16.86	QP	
10		2.8074	27.80	0.14	27.94	46.00	-18.06	AVG	
11		4.4832	37.70	0.16	37.86	56.00	-18.14	QP	
12		4.4832	26.40	0.16	26.56	46.00	-19.44	AVG	

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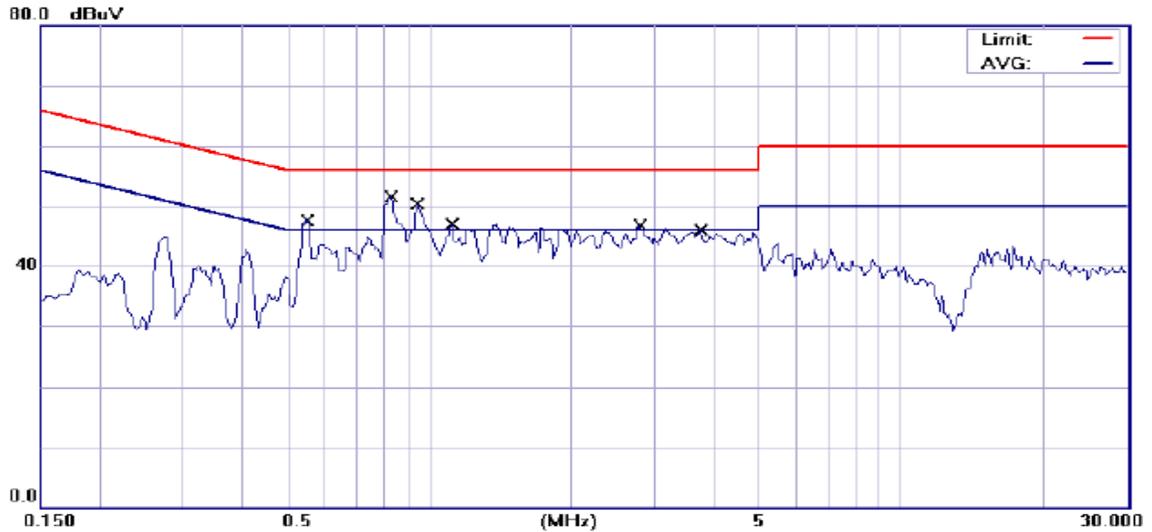
Site SGS CONDUCTED #1 Phase: **N** Temperature: 23 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
 EUT: Pocket PC Phone Distance: Air Pressure: hpa
 M/N: RHOD300
 Note: WCDMA Band 2 Link

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5537	44.90	0.08	44.98	56.00	-11.02	QP	
2		0.5537	32.30	0.08	32.38	46.00	-13.62	AVG	
3	*	0.8226	46.60	0.09	46.69	56.00	-9.31	QP	
4		0.8226	32.40	0.09	32.49	46.00	-13.51	AVG	
5		0.9436	44.80	0.10	44.90	56.00	-11.10	QP	
6		0.9436	30.30	0.10	30.40	46.00	-15.60	AVG	
7		1.4045	40.80	0.11	40.91	56.00	-15.09	QP	
8		1.4045	27.20	0.11	27.31	46.00	-18.69	AVG	
9		2.3565	40.50	0.14	40.64	56.00	-15.36	QP	
10		2.3565	28.40	0.14	28.54	46.00	-17.46	AVG	
11		4.5352	38.30	0.17	38.47	56.00	-17.53	QP	
12		4.5352	25.40	0.17	25.57	46.00	-20.43	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

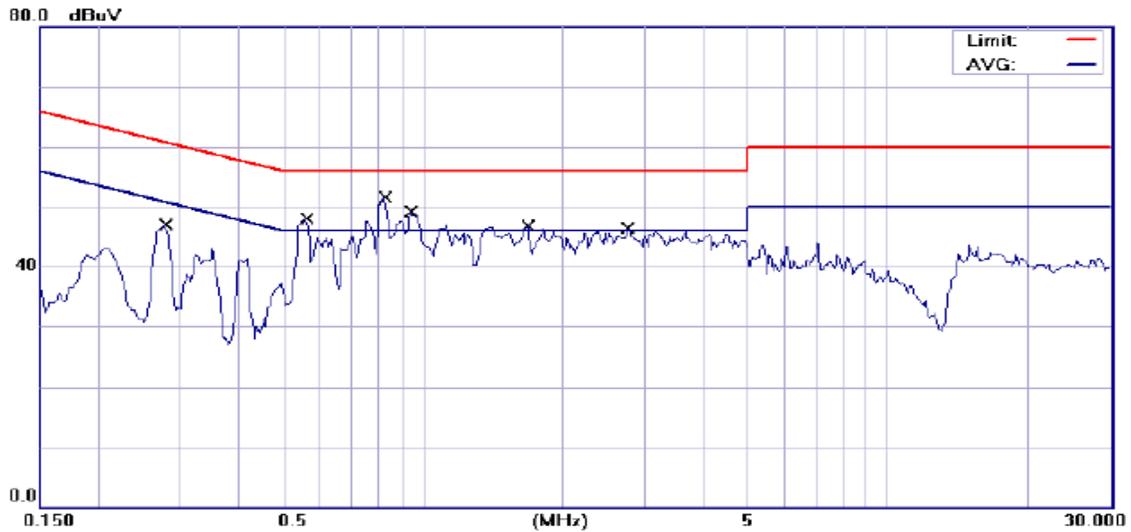
Operation Mode:	WCDMA Band V LINK		Test Date:	May. 01, 2009	
Temperature:	22 °C	Humidity:	61 %	Test By:	Bondi



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	23 °C
Limit:	CISPR22 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60 %
EUT:	Pocket PC Phone	Distance:		Air Pressure:	hpa
M/N:	RHOD300				
Note:	WCDMA Band 5 Link				

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.5559	45.50	0.07	45.57	56.00	-10.43	QP	
2		0.5559	33.80	0.07	33.87	46.00	-12.13	AVG	
3	*	0.8323	48.50	0.08	48.58	56.00	-7.42	QP	
4		0.8323	35.40	0.08	35.48	46.00	-10.52	AVG	
5		0.9396	46.40	0.09	46.49	56.00	-9.51	QP	
6		0.9396	33.70	0.09	33.79	46.00	-12.21	AVG	
7		1.1142	41.60	0.09	41.69	56.00	-14.31	QP	
8		1.1142	28.00	0.09	28.09	46.00	-17.91	AVG	
9		2.7788	39.90	0.14	40.04	56.00	-15.96	QP	
10		2.7788	28.20	0.14	28.34	46.00	-17.66	AVG	
11		3.7601	38.20	0.15	38.35	56.00	-17.65	QP	
12		3.7601	27.20	0.15	27.35	46.00	-18.65	AVG	

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Site: SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: RHOD300
 Note: WCDMA Band 5 Link

Phase: N
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 60 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2789	38.50	0.11	38.61	60.85	-22.24	QP	
2		0.2789	23.10	0.11	23.21	50.85	-27.64	AVG	
3		0.5536	45.00	0.08	45.08	56.00	-10.92	QP	
4		0.5536	32.20	0.08	32.28	46.00	-13.72	AVG	
5	*	0.8288	46.10	0.09	46.19	56.00	-9.81	QP	
6		0.8288	32.40	0.09	32.49	46.00	-13.51	AVG	
7		0.9402	43.40	0.10	43.50	56.00	-12.50	QP	
8		0.9402	29.60	0.10	29.70	46.00	-16.30	AVG	
9		1.6902	37.80	0.12	37.92	56.00	-18.08	QP	
10		1.6902	24.30	0.12	24.42	46.00	-21.58	AVG	
11		2.7553	39.90	0.14	40.04	56.00	-15.96	QP	
12		2.7553	25.80	0.14	25.94	46.00	-20.06	AVG	

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