



FCC ID: HLEPA600BTGGR

Report No.: ER/2008/40026

Issue Date: May 22, 2008

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Wireless Data Collection Terminal

Brand Name: unitech

Model Name: PA600

FCC ID: HLEPA600BTGGR

Report No.: ER/2008/40026

Issue Date: May 22, 2008

FCC Rule Part: 2, 22H & 24E

Prepared for: unitech electronics co., ltd.

8Fl., No. 118, Lane 235, Pao-Chiao Rd.,
Hsin-Tien City, Taipei Hsien, Taiwan 231,
R.O.C.

Prepared by: SGS Taiwan Ltd.

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No. 134, Wu Kung Rd., Wuku Industrial
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VERIFICATION OF COMPLIANCE

Applicant: unitech electronics co., ltd.
8Fl., No. 118, Lane 235, Pao-Chiao Rd., Hsin-Tien City, Taipei Hsien,
Taiwan 231, R.O.C.

Product Name: Wireless Data Collection Terminal

Brand Name: unitech

FCC ID: HLEPA600BTGGR

Model No.: PA600

Model Difference: N/A

File Number: ER/2008/40026

Date of test: May 12, 2008 ~ May 20, 2008

Date of EUT Received: May 12, 2008

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-B-2002 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 and FCC PART 24 subpart E.

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

Test By:



Date

May 22, 2008

Sky Wang/Asst. Supervisor

Prepared By:



Date

May 22, 2008

Elisa Chen/Asst. Supervisor

Approved By



Date

May 22, 2008

Vincent Su/Manager

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Version

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1. GENERAL INFORMATION

Product Name:	Wireless Data Collection Terminal		
Brand Name:	unitech		
Model Name:	PA600		
Model Difference:	N/A		
Data Cable (USB):	One provide, Model: N/A		
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter		
	Battery:	P/N: 1400-203047G	
	Adapter:	Model: 3A-181WP05A	

GPRS:

Cellular Phone Standards Frequency Range and Power	GPRS 850, class 12	824 MHz– 849MHz	33 dBm
	GPRS 900, class 12	880MHz – 915MHz	33 dBm
	GPRS 1800, class 12	1710MHz-1785MHz	30 dBm
	GPRS 1900, class 12	1850MHz – 1910MHz	30 dBm
final amplifier voltage and current information		DC voltage (V)	DC current (mA)
	GPRS 850, class 12	5Vdc	310 mA
	GPRS 1900, class 12	5Vdc	300 mA
Type of Emission	GSM: 300KGXW		
IMEI	355634003030370		

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WLAN:

Frequency Range	2412 – 2462 MHz
Channel number	11 channels
Rated Power	802.11 b: 14.83 dBm (Peak) 802.11 g: 11.10 dBm (Peak)
Modulation Technology	DSSS, 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	Metal Antenna, -3.16 dBi
Type of Emission	16M5M7D

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

Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	-0.55dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum (FHSS) (GFSK)
Antenna Designation	Chip Antenna, 1.71dBi
Type of Emission	884KF1D

The EUT is compliance with Bluetooth Standard.

This test report applies for GPRS 850, GPRS 1900

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1.1 Related Submittal(s) / Grant (s)

This device contains an approved GSM module, FCC ID: QIPMC75. This submittal(s) (test report) is intended for FCC ID: HLEPA600BTGGR filing to comply with Section Part 22 subpart H and 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 chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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

1.3 Test Facility

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

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted 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 Radiated Emissions

The EUT is placed on a turn table which is 1.0 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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2.4 Configuration of Tested System

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

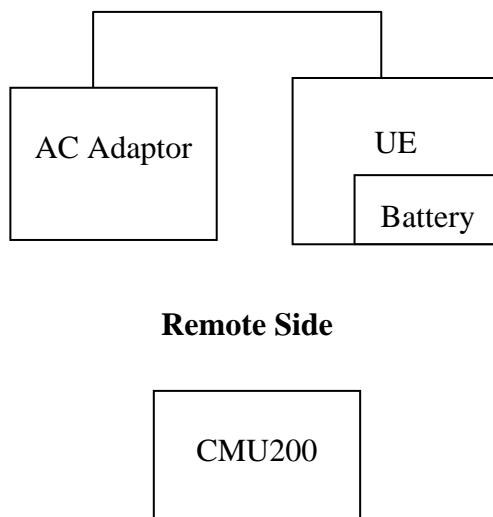


Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a) §24.232(a)	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)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

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 (E1 mode) and lie down position (E1, E2 mode) for GPRS with power adaptor. The worst-case of E2 position for GPRS 850 band, E2 position for GPRS 1900 band were reported.

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5. RF POWER OUTPUT MEASUREMENT

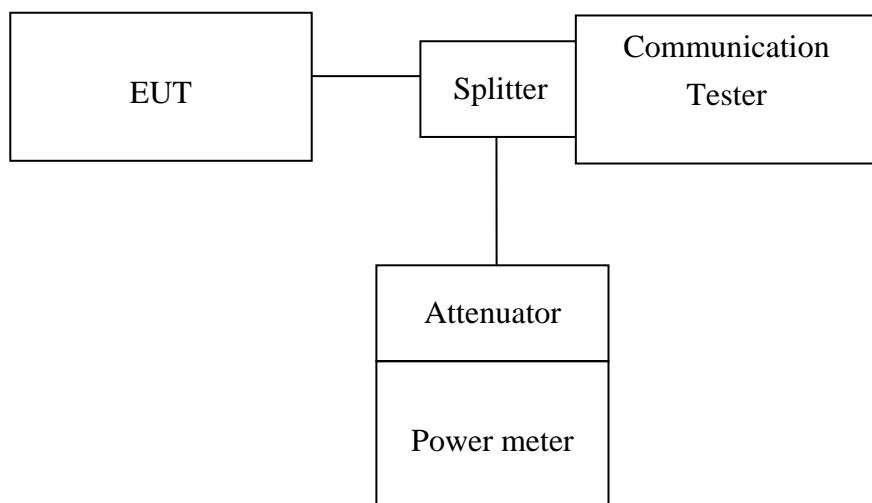
5.1 Standard Applicable

According to FCC §2.1046.

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

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

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

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5.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/08/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2007	09/22/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Average Power (dBm)
GPRS 850	824.20	128	31.41	0.00	31.41
	836.60	190	31.50	0.00	31.50
	848.80	251	31.78	0.00	31.78

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Average Power (dBm)
GPRS 1900	1850.20	512	28.48	0.00	28.48
	1880.00	661	28.33	0.00	28.33
	1909.80	810	28.42	0.00	28.42

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

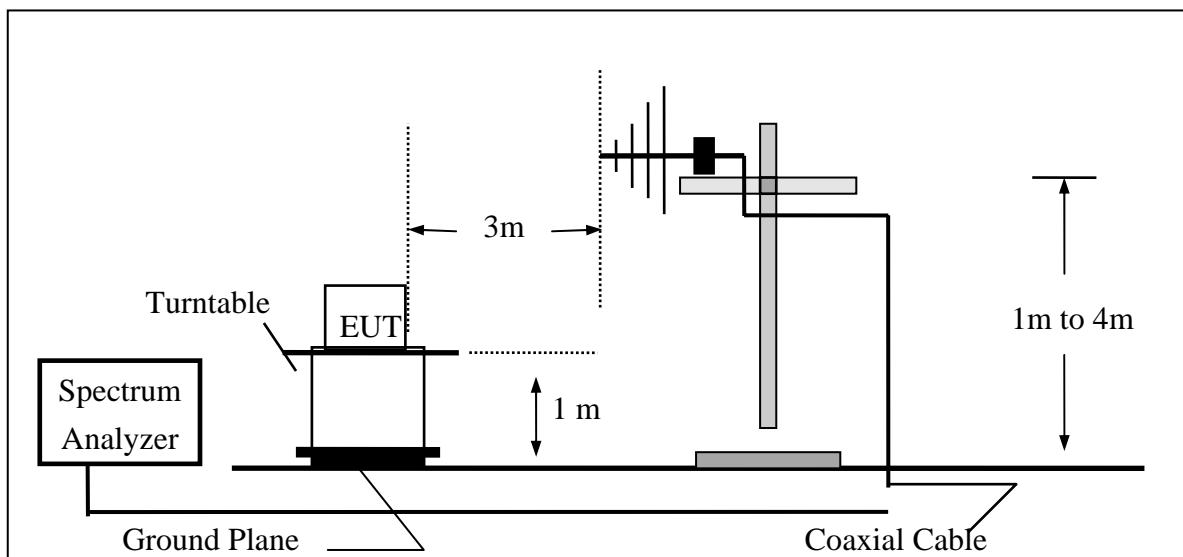
According to FCC §2.1046

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)

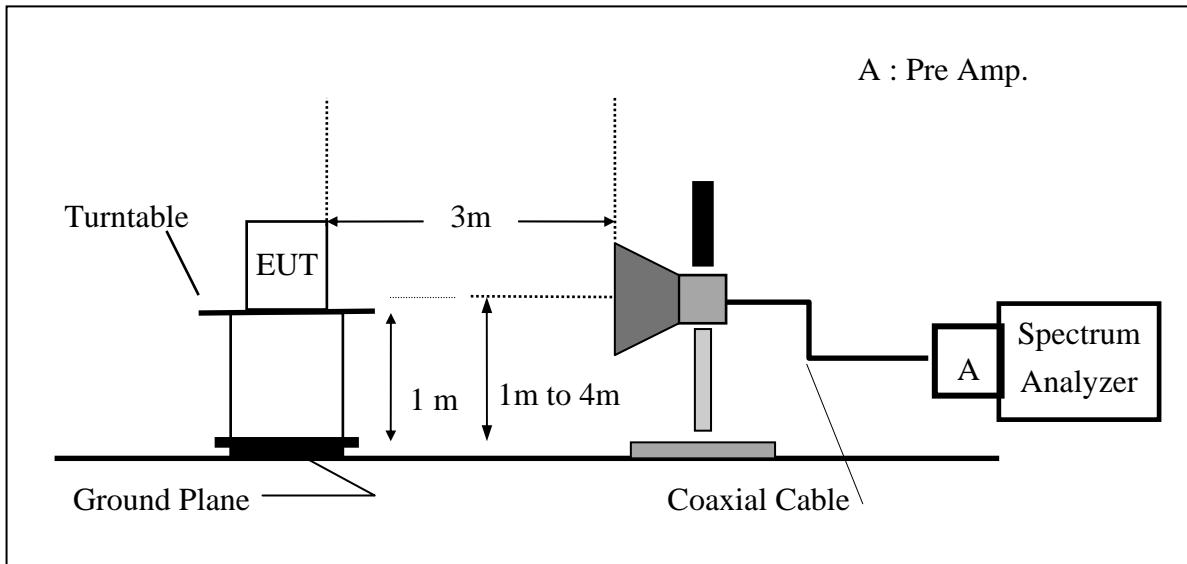
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



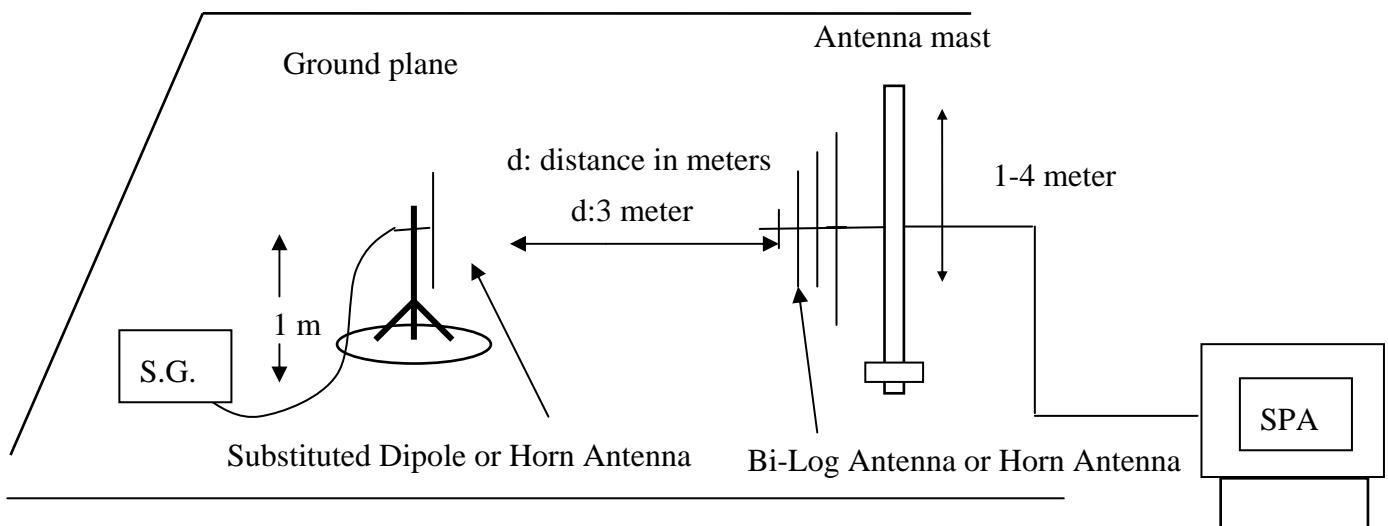
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

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

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

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

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

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6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

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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)
GPRS 850	824.20	128	H	V	119.35	32.03	-7.87	3.64	20.51	38.45
				H	128.06	40.40	-7.87	3.64	28.89	38.45
			E1	V	126.58	39.26	-7.87	3.64	27.74	38.45
				H	123.91	36.25	-7.87	3.64	24.74	38.45
			E2	V	123.98	36.66	-7.87	3.64	25.14	38.45
				H	126.60	38.94	-7.87	3.64	27.43	38.45
	836.60	190	H	V	119.12	32.09	-7.88	3.70	20.52	38.45
				H	127.17	39.83	-7.88	3.70	28.26	38.45
			E1	V	126.54	39.51	-7.88	3.70	27.94	38.45
				H	123.69	36.35	-7.88	3.70	24.78	38.45
			E2	V	123.82	36.79	-7.88	3.70	25.22	38.45
				H	127.10	39.76	-7.88	3.70	28.19	38.45
	848.80	251	H	V	119.09	32.35	-7.88	3.75	20.72	38.45
				H	126.77	39.75	-7.88	3.75	28.12	38.45
			E1	V	126.22	39.48	-7.88	3.75	27.85	38.45
				H	123.25	36.23	-7.88	3.75	24.60	38.45
			E2	V	123.68	36.94	-7.88	3.75	25.31	38.45
				H	125.03	38.01	-7.88	3.75	26.38	38.45

Remark :

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

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EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GPRS 1900	1850.20	512	H	V	124.56	17.60	9.90	5.41	22.09	33.00
				H	124.42	17.53	9.90	5.41	22.02	33.00
			E1	V	118.94	11.98	9.90	5.41	16.47	33.00
				H	127.29	20.40	9.90	5.41	24.89	33.00
			E2	V	127.49	20.53	9.90	5.41	25.02	33.00
				H	120.25	13.36	9.90	5.84	17.42	33.00
	1880.00	661	H	V	124.19	17.24	9.99	5.46	21.77	33.00
				H	123.88	17.01	9.99	5.46	21.54	33.00
			E1	V	118.95	12.00	9.99	5.46	16.53	33.00
				H	127.23	20.36	9.99	5.46	24.89	33.00
			E2	V	127.71	20.76	9.99	5.46	25.29	33.00
				H	121.28	14.41	9.99	5.46	18.94	33.00
	1909.80	810	H	V	123.43	16.49	10.08	5.51	21.06	33.00
				H	123.69	16.84	10.08	5.51	21.40	33.00
			E1	V	118.55	11.61	10.08	5.51	16.18	33.00
				H	126.81	19.96	10.08	5.51	24.52	33.00
			E2	V	126.30	19.36	10.08	5.51	23.93	33.00
				H	120.70	13.85	10.08	5.51	18.41	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=100 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

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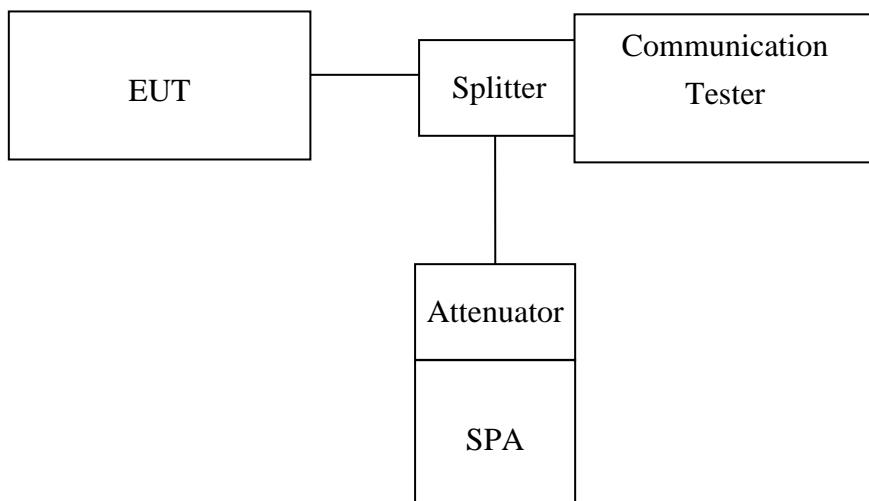
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

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.

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7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.2420
	836.60	190	0.2430
	848.80	251	0.2410

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.2420
	1880.00	661	0.2430
	1909.80	810	0.2410

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Figure 7-1: GPRS 850 Channel Low

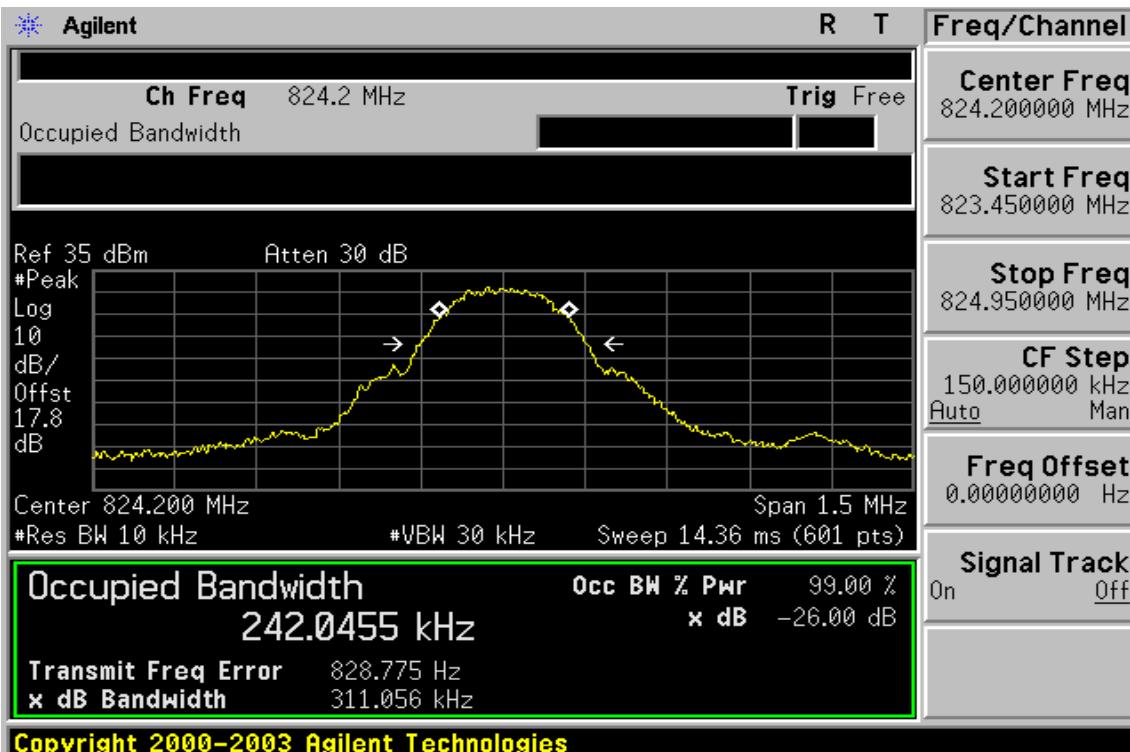
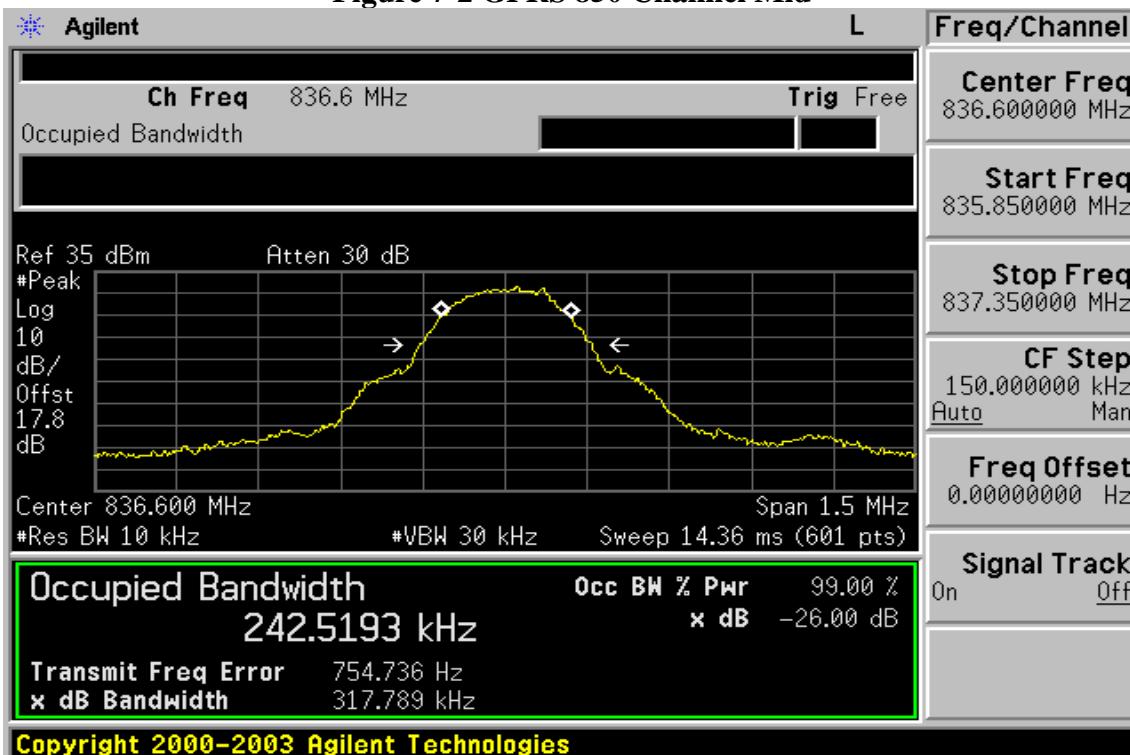


Figure 7-2 GPRS 850 Channel Mid



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Figure 7-3: GPRS 850 Channel High

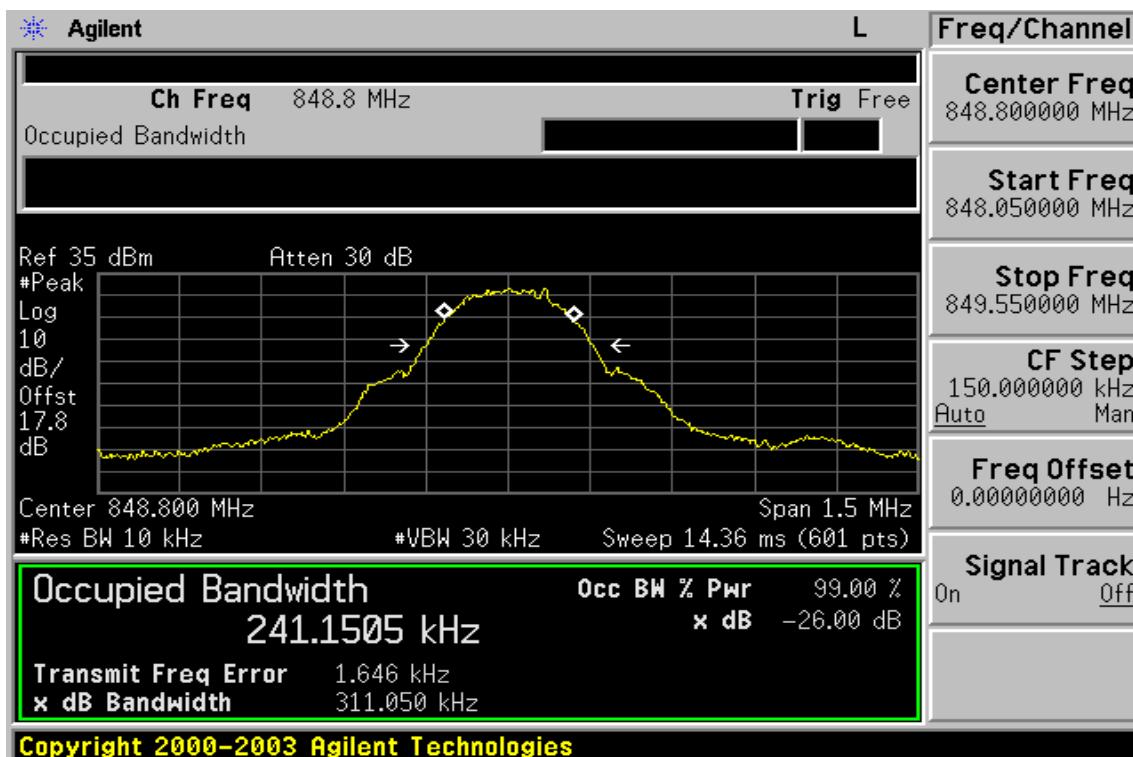
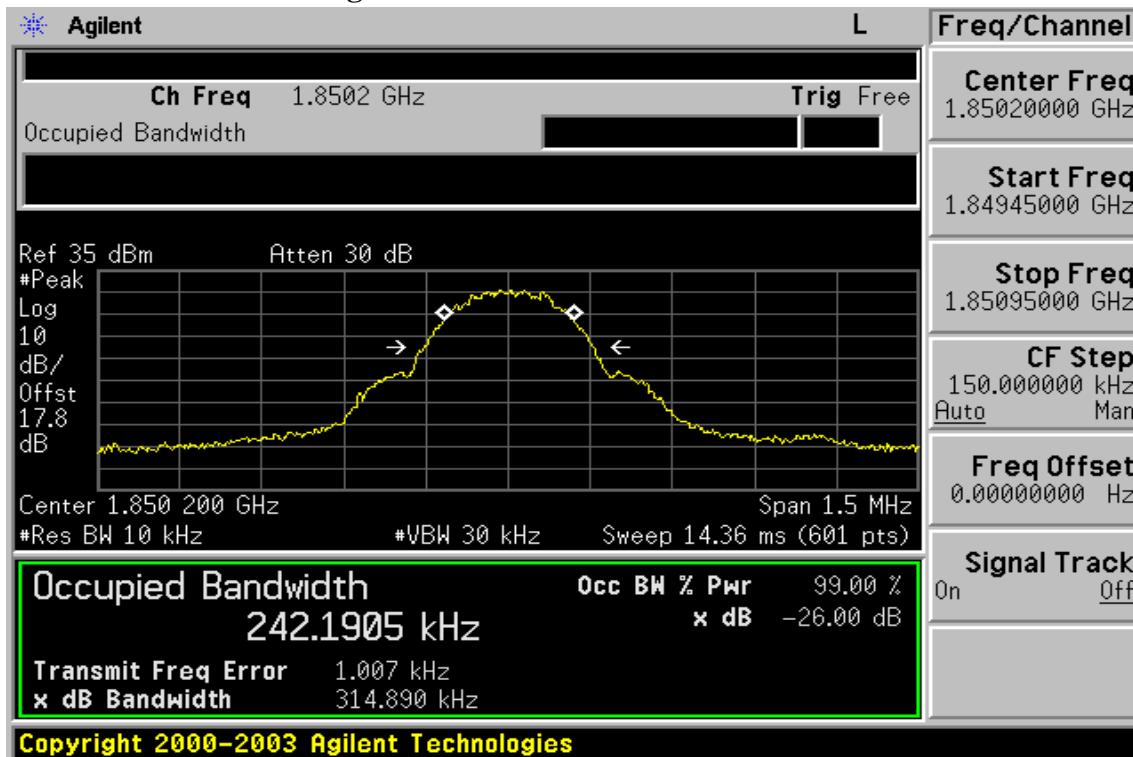


Figure 7-4: GPRS 1900 Channel Low



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Figure 7-5 GPRS 1900 Channel Mid

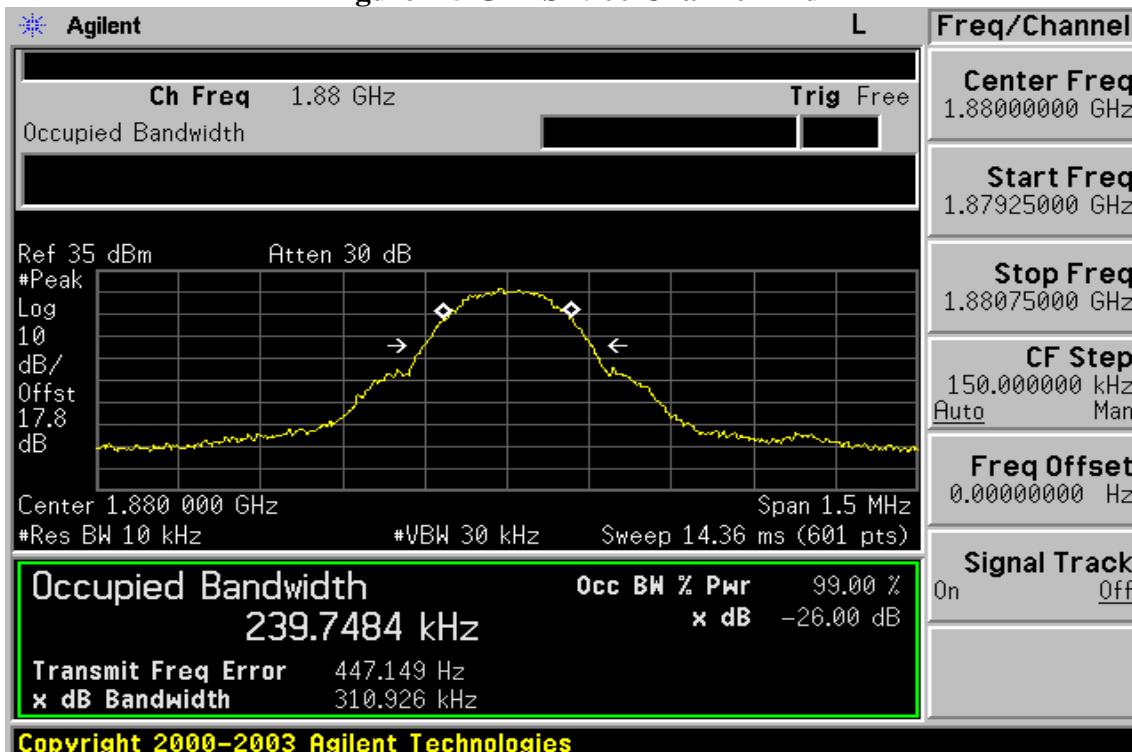
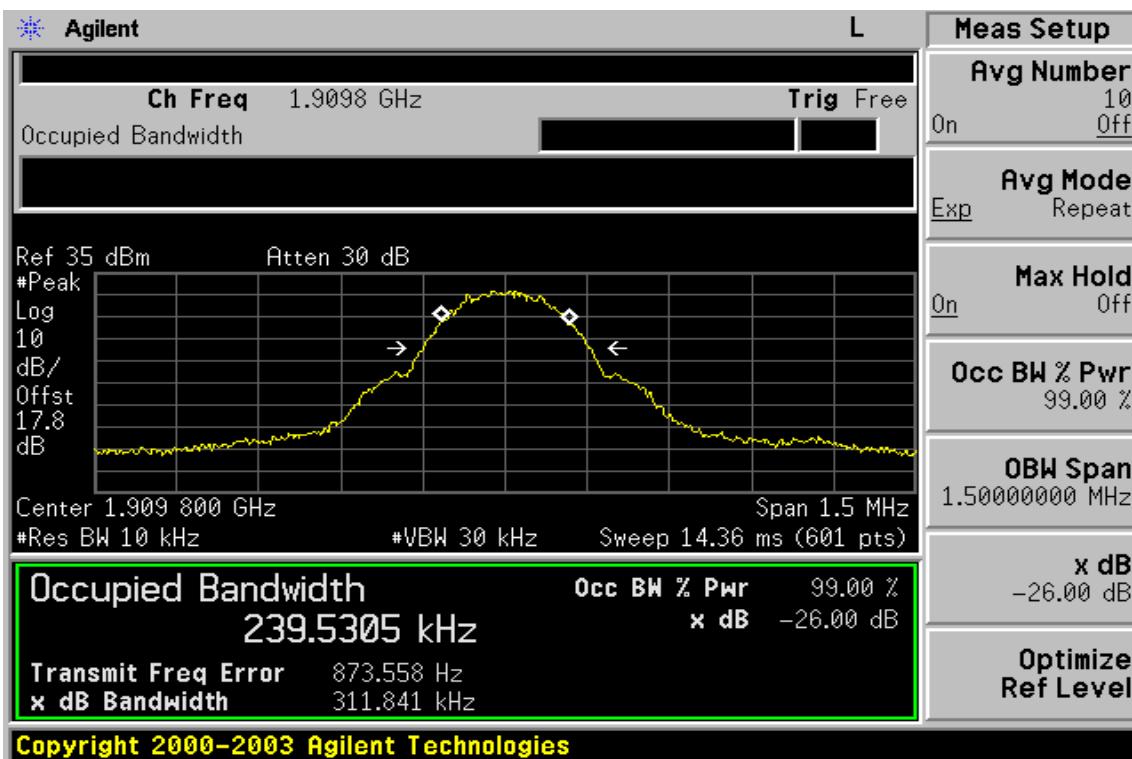


Figure 7-6: GPRS 1900 Channel High



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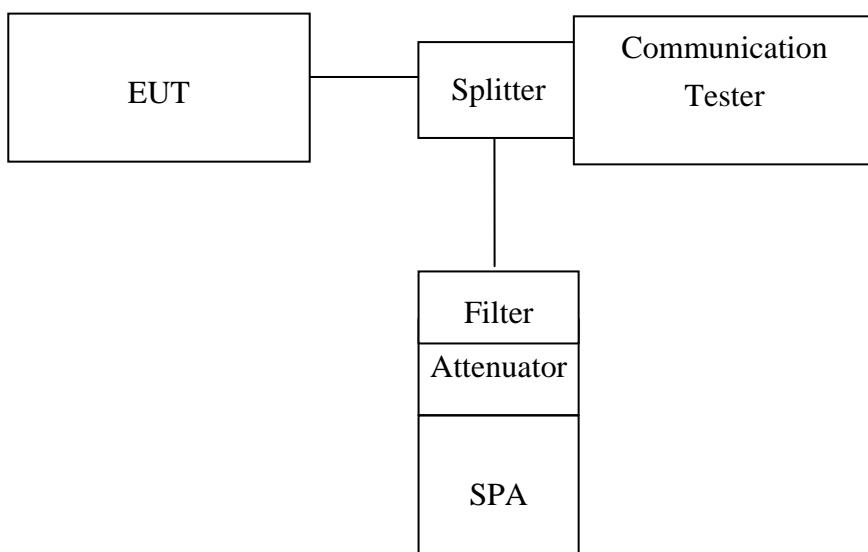
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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



Note: Measurement setup for testing on Antenna connector

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.

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8.4 Measurement Equipment Used:

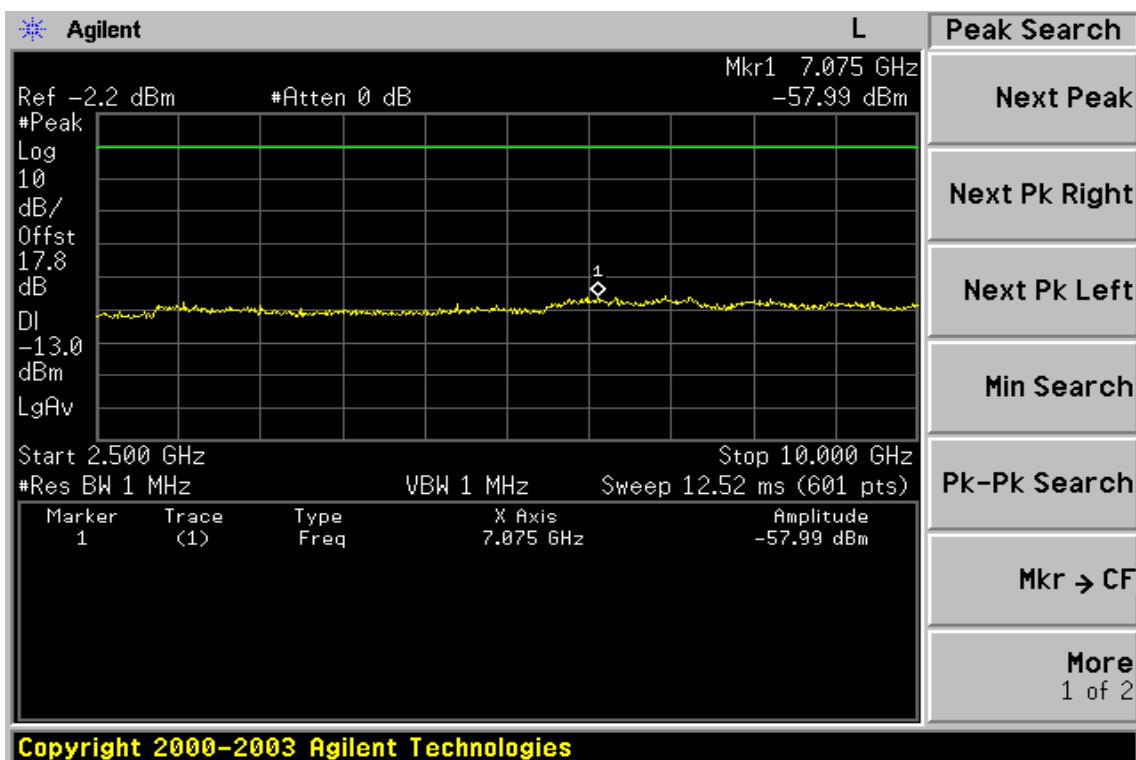
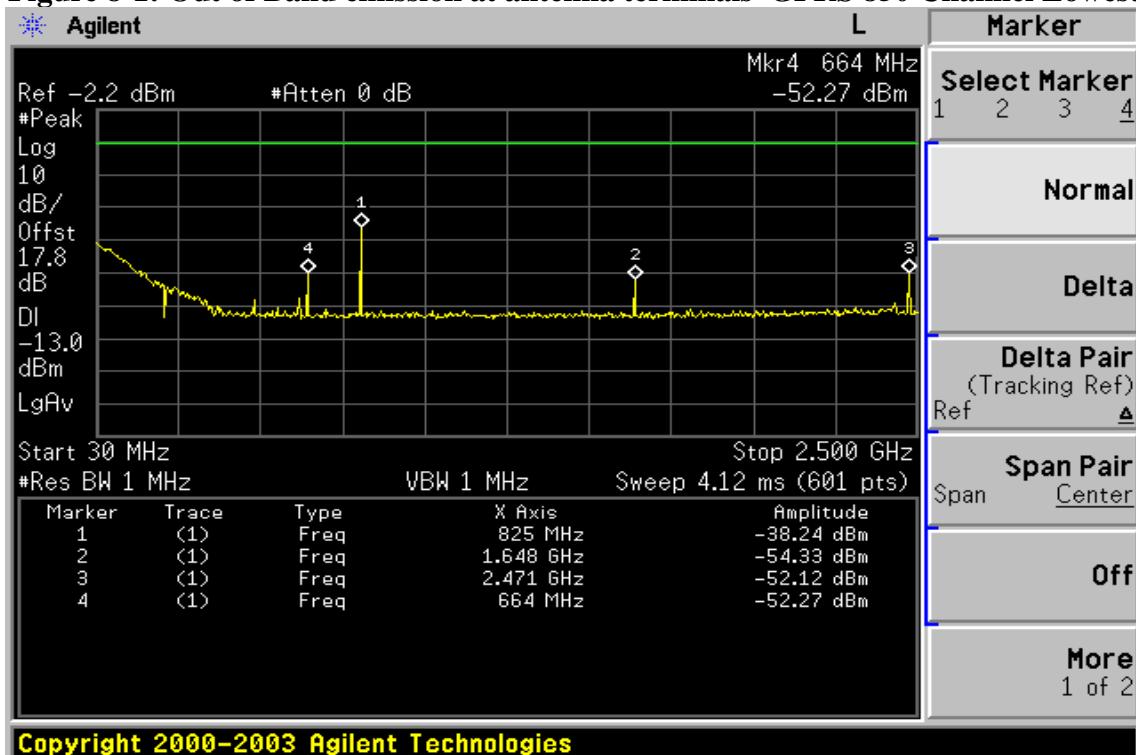
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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8.5 Measurement Result

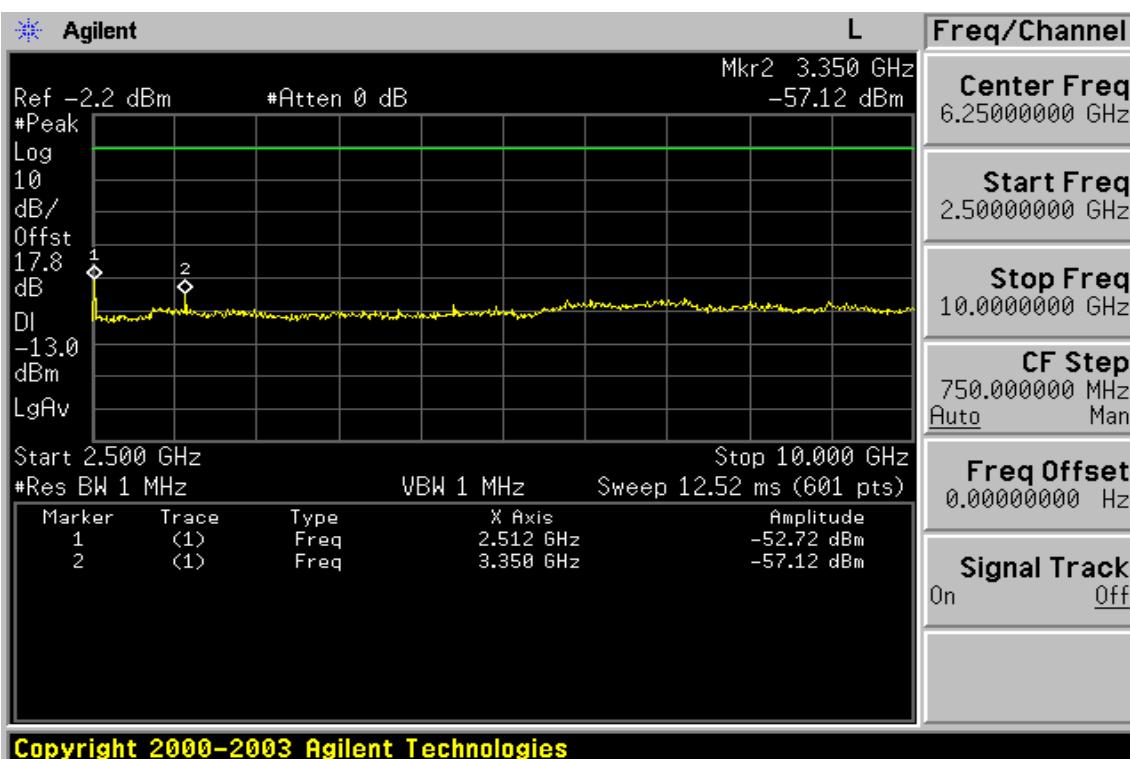
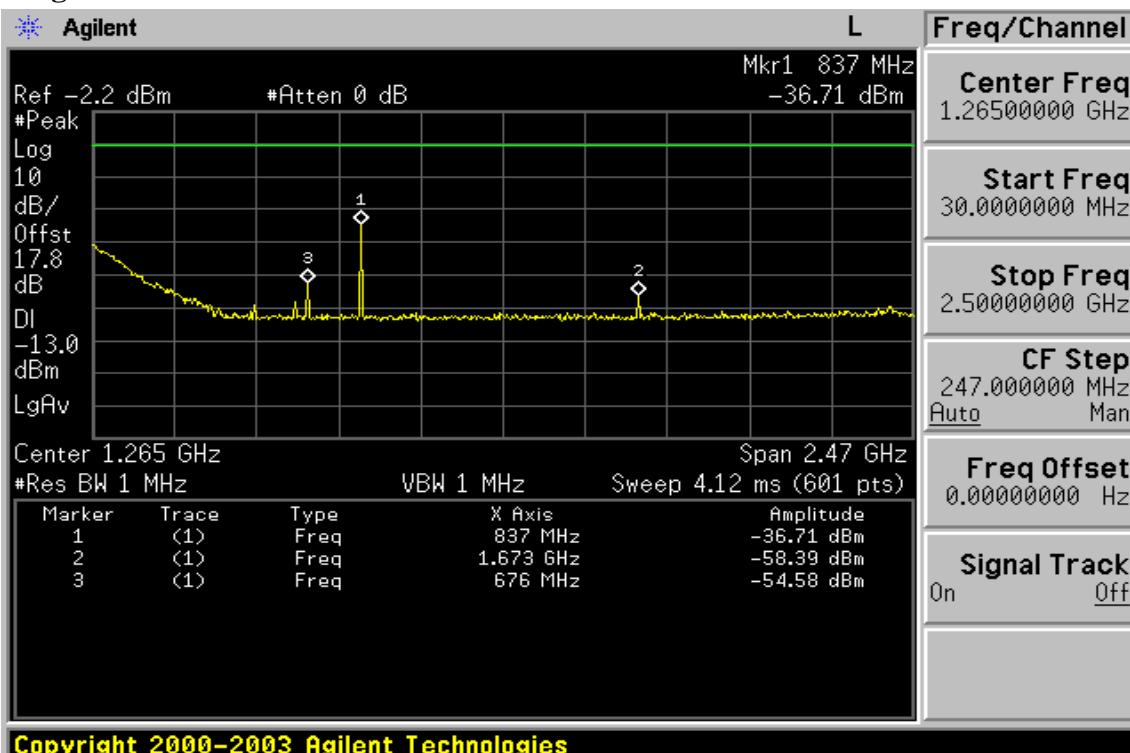
Figure 8-1: Out of Band emission at antenna terminals—GPRS 850 Channel Lowest



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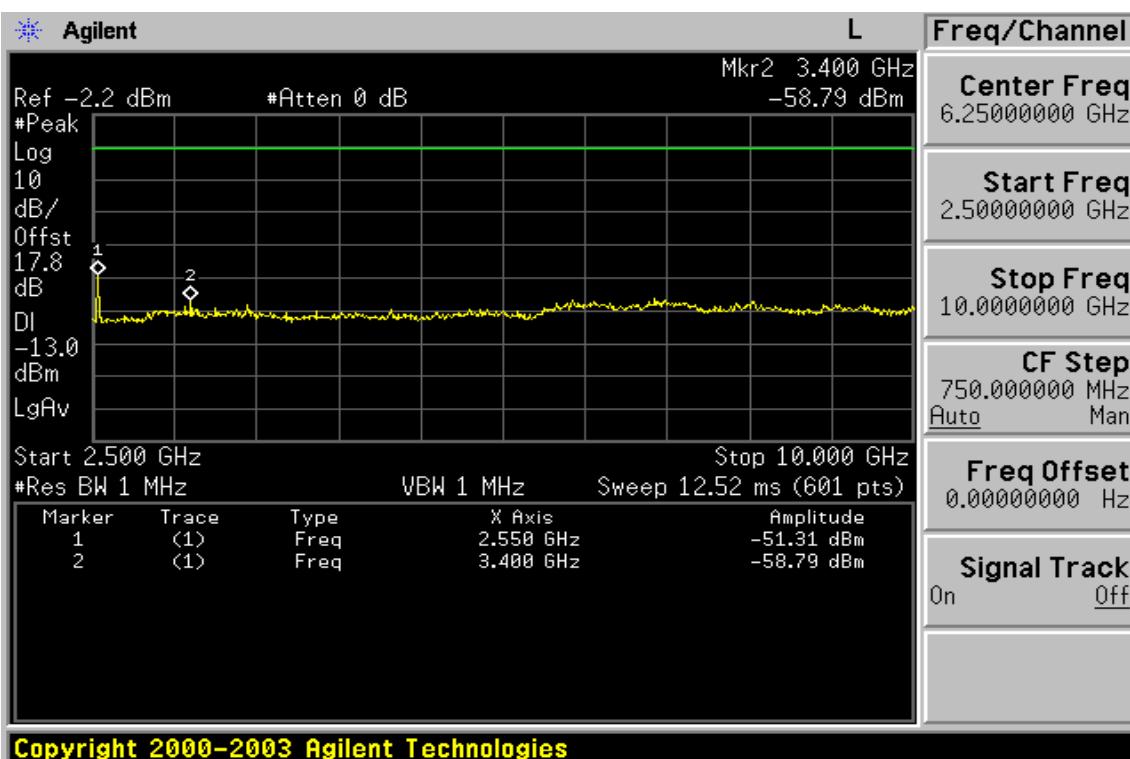
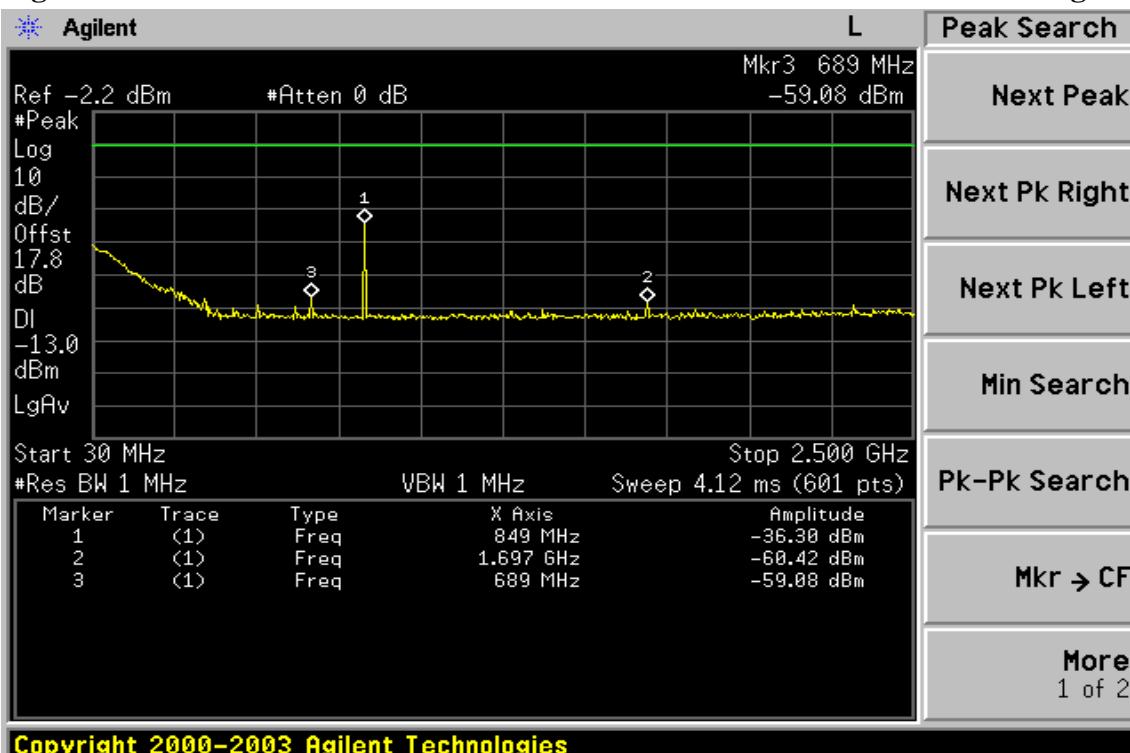
Figure 8-2: Out of Band emission at antenna terminals –GPRS 850 Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals—GPRS 850 Channel Highest



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

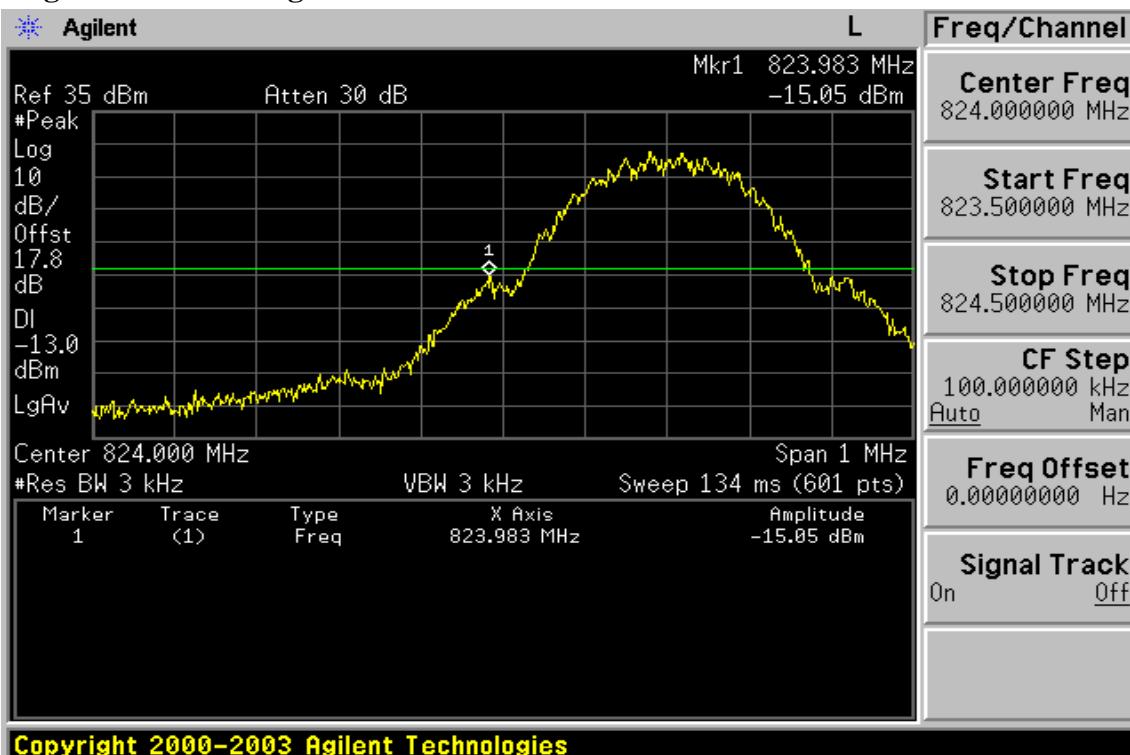
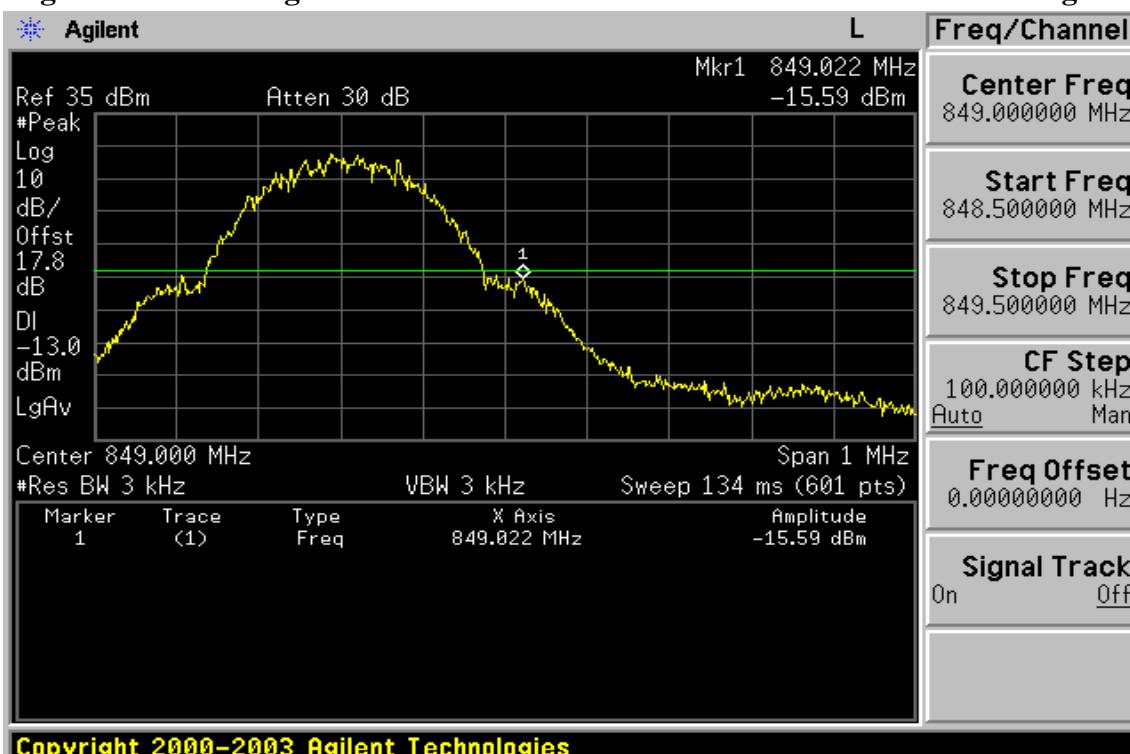


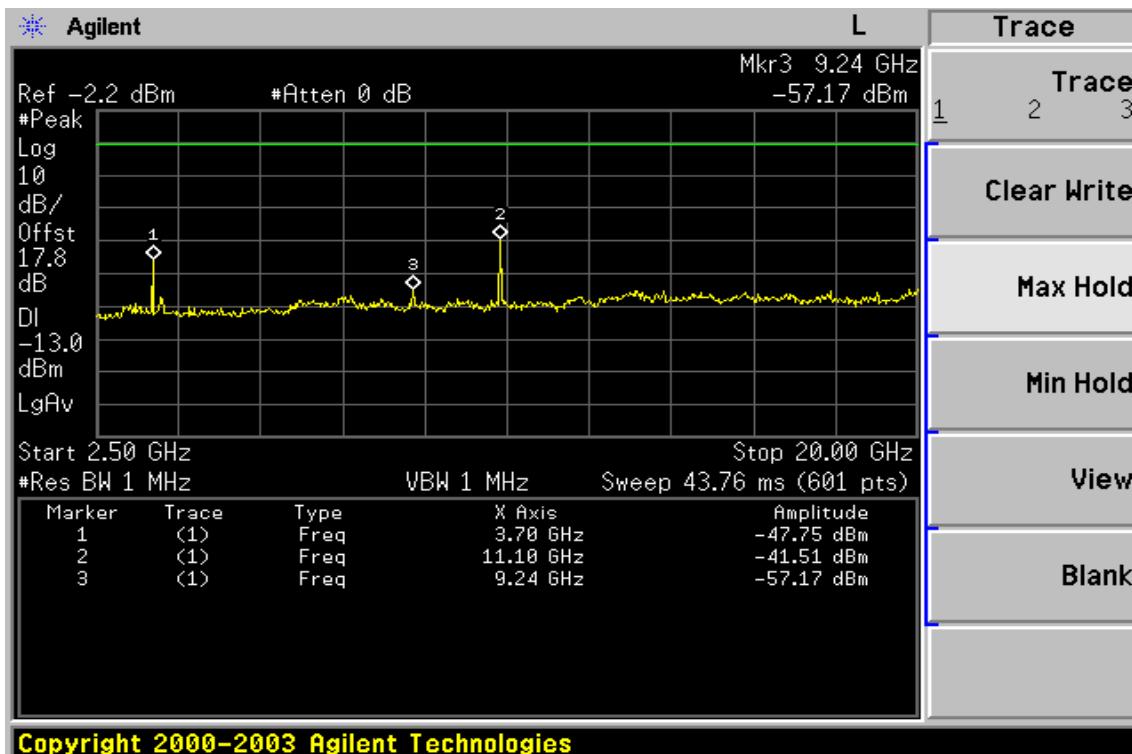
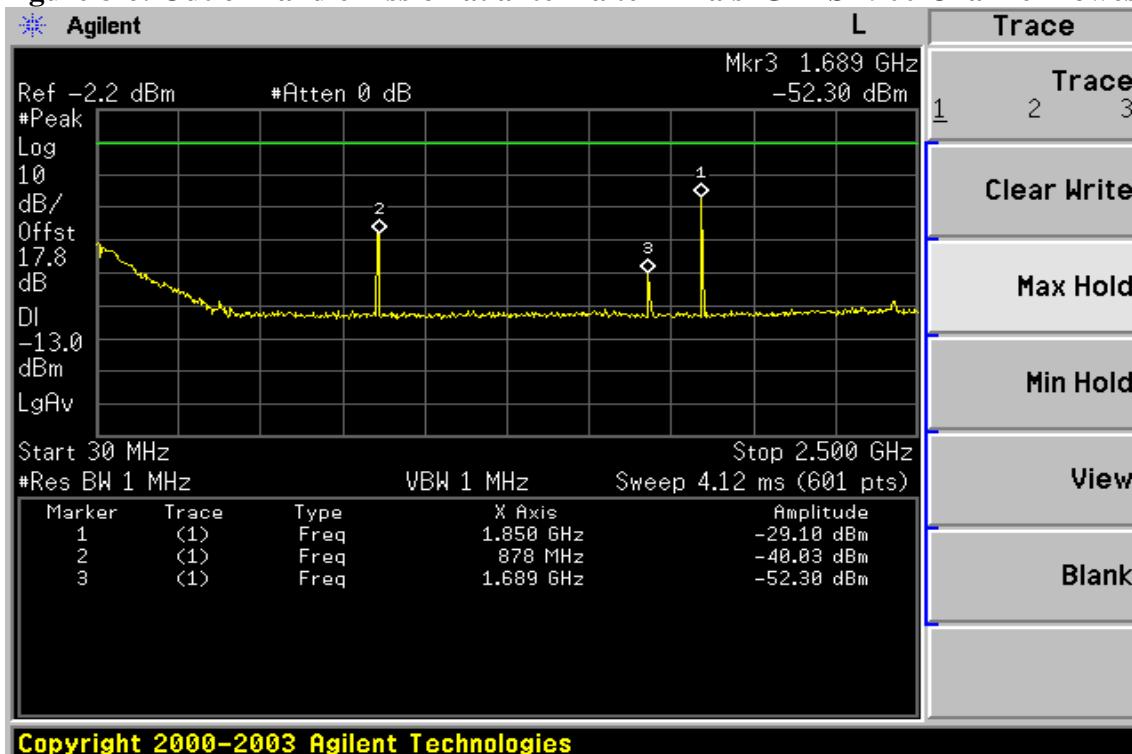
Figure 8-5: Band edge emission at antenna terminals –GPRS 850 Channel Highest



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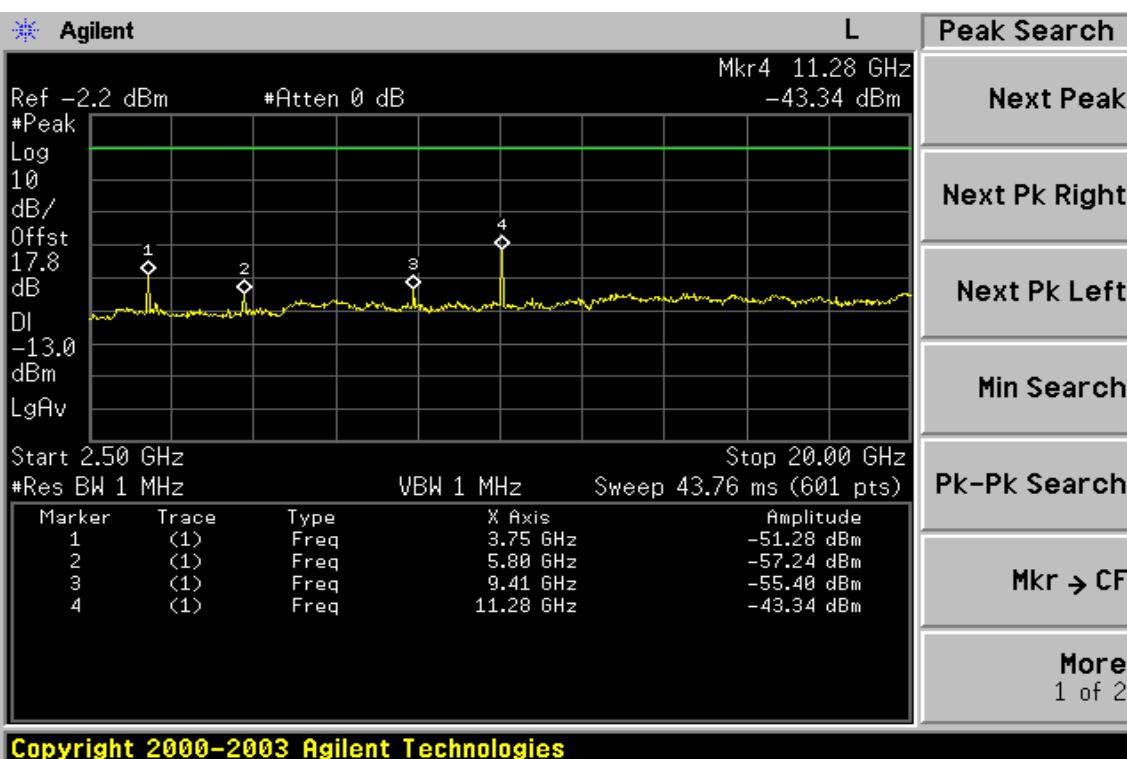
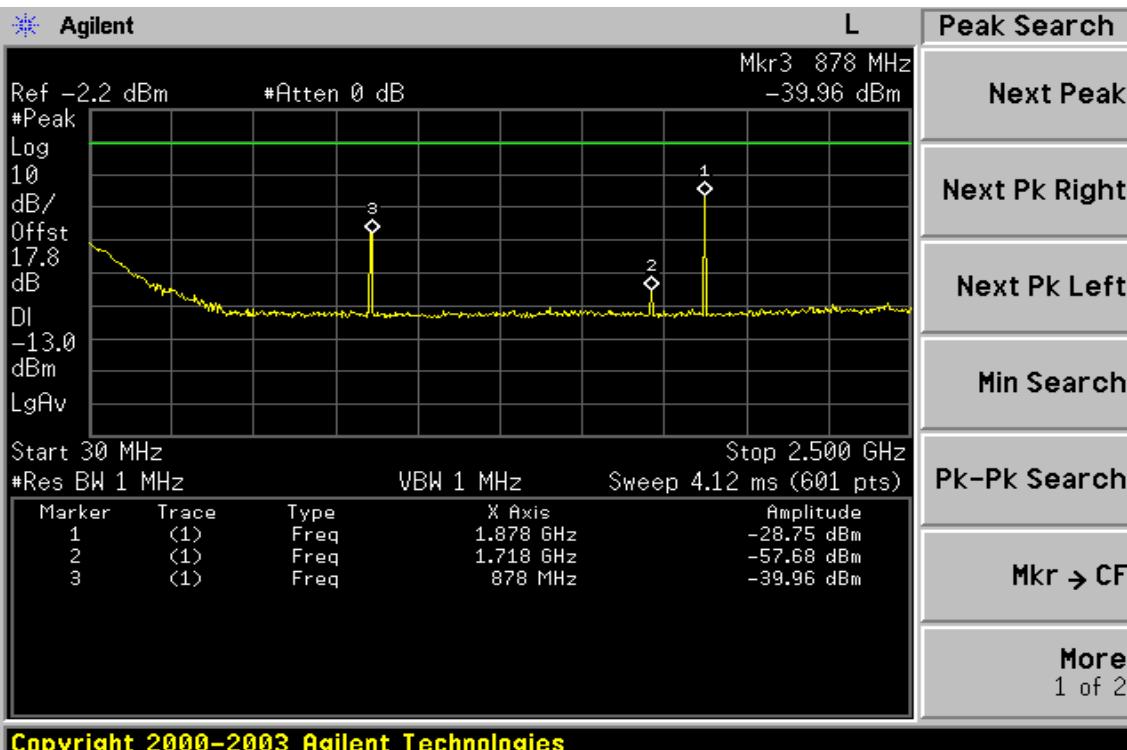
Figure 8-6: Out of Band emission at antenna terminals—GPRS 1900 Channel Lowest



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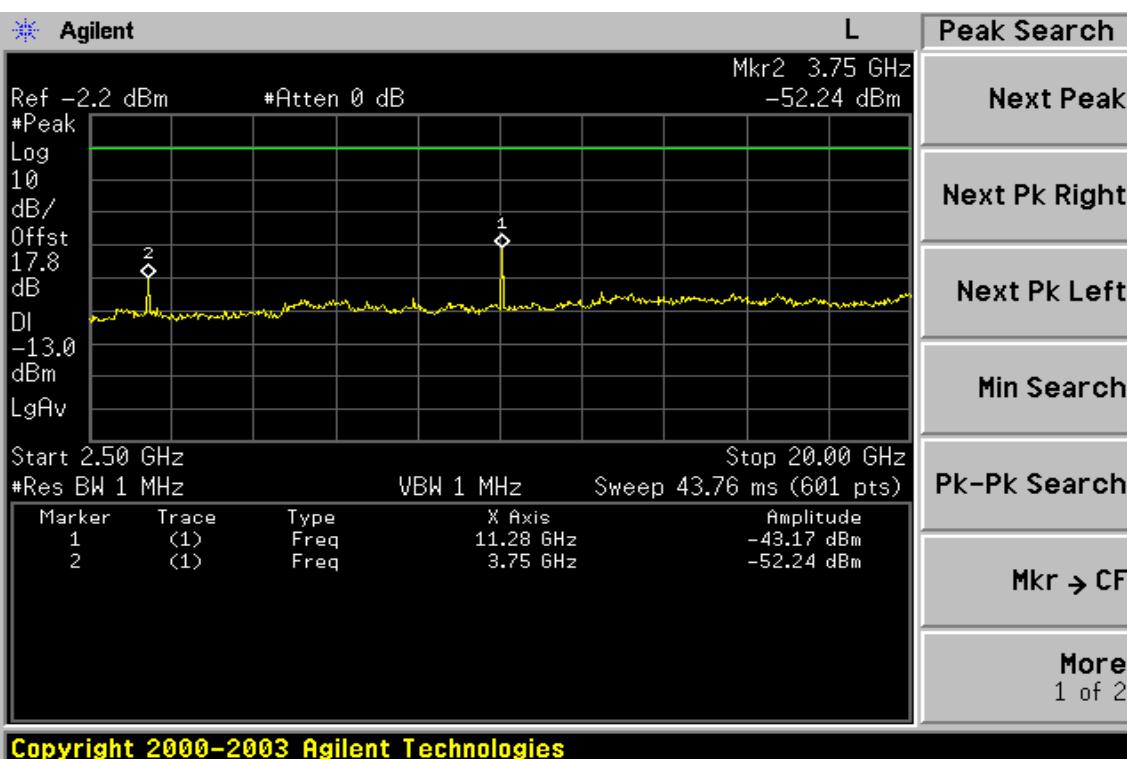
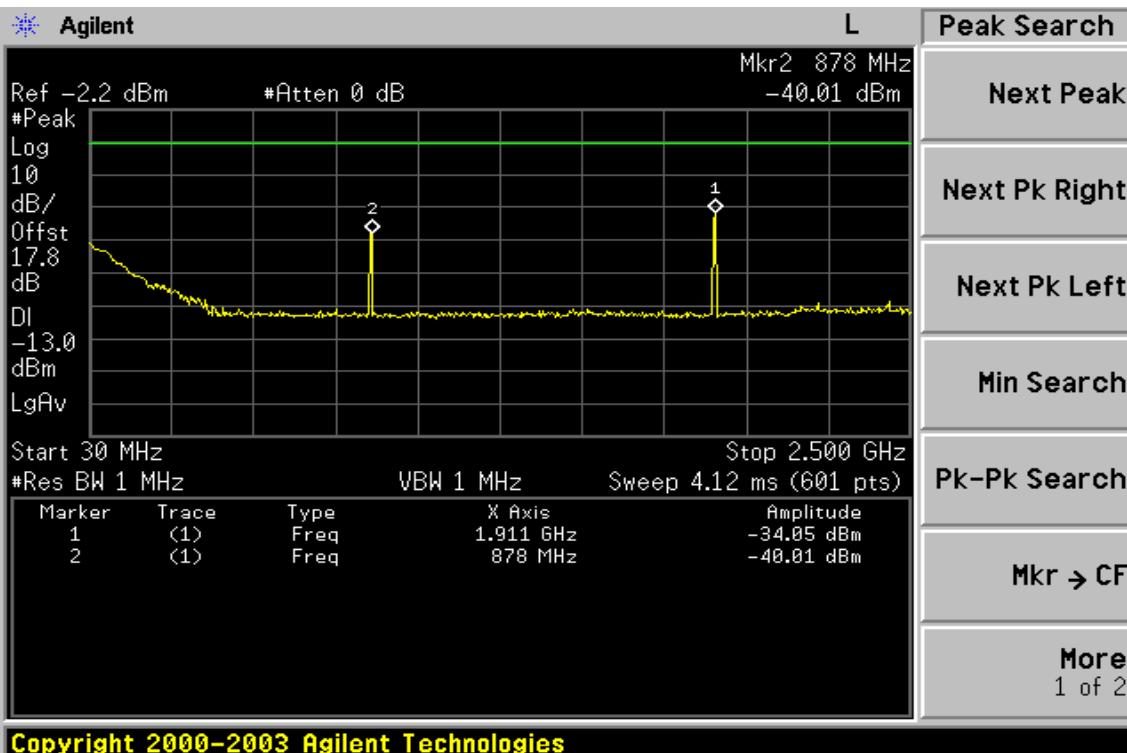
Figure 8-7: Out of Band emission at antenna terminals –GPRS 1900 Channel Mid



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



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

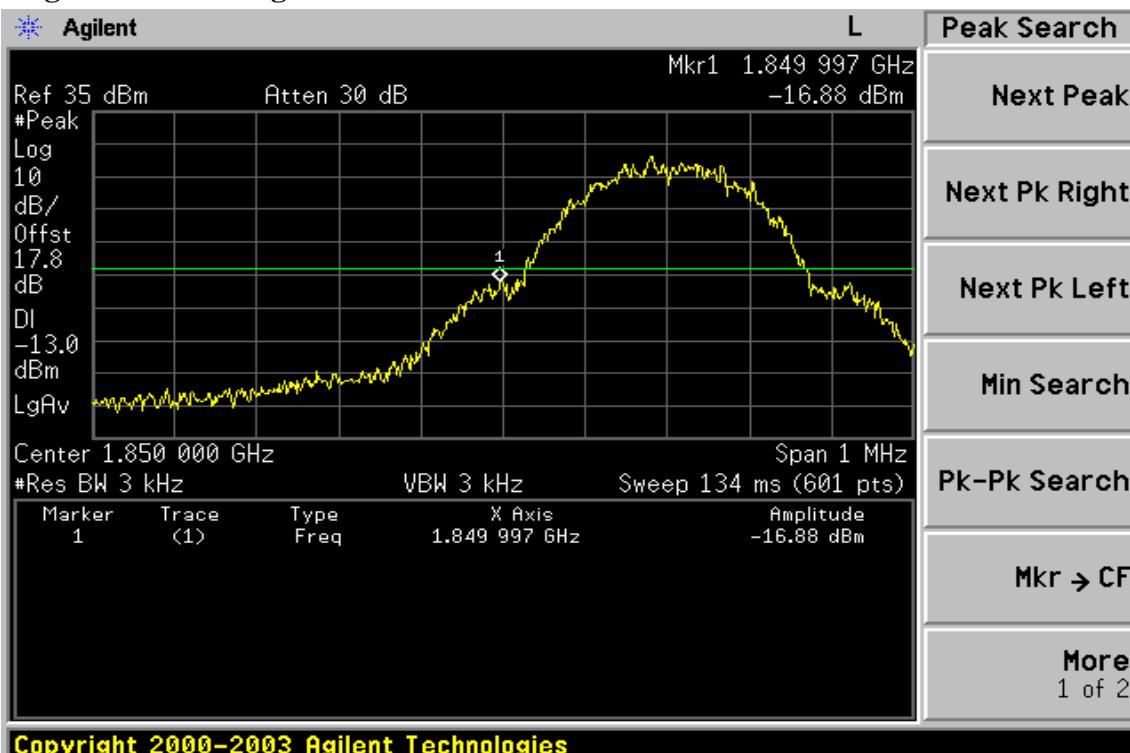
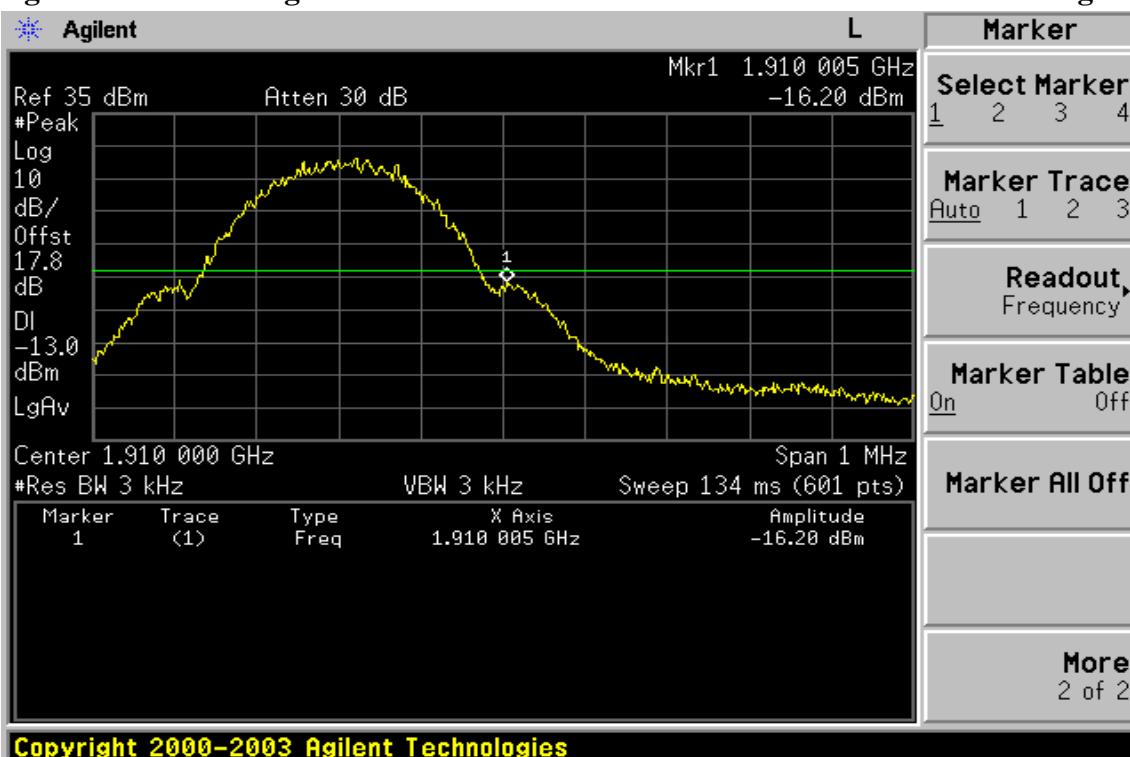


Figure 8-10: Band edge emission at antenna terminals –GPRS 1900 Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

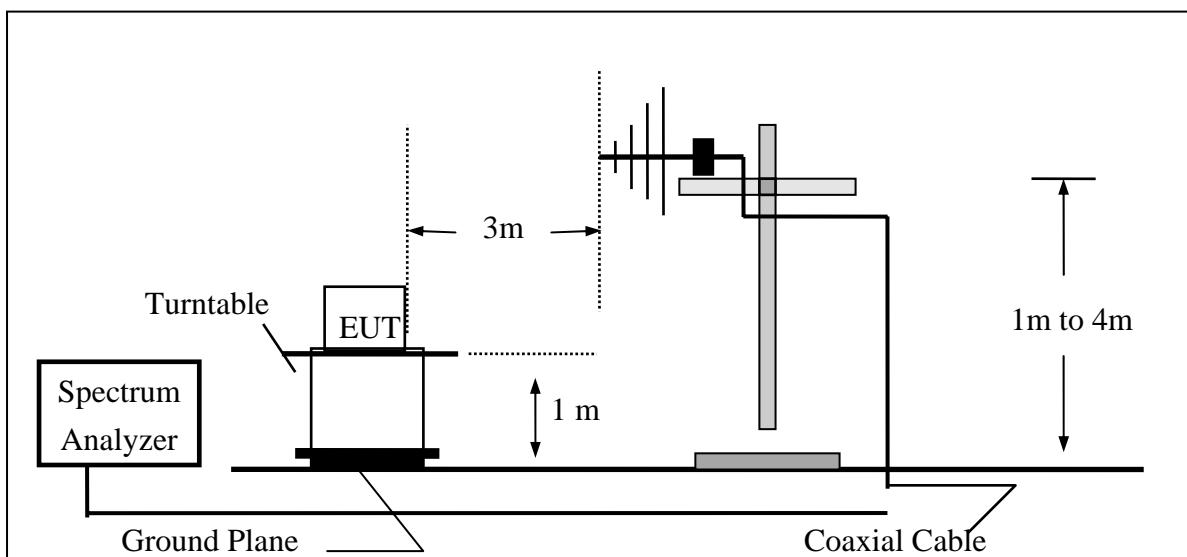
9.1 Standard Applicable

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)

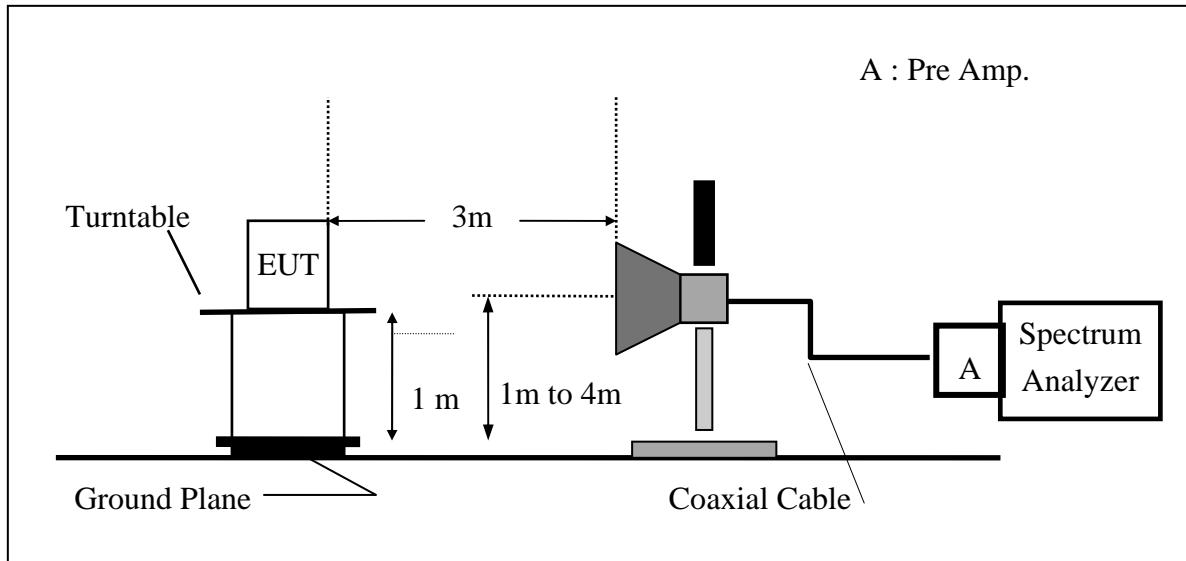
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



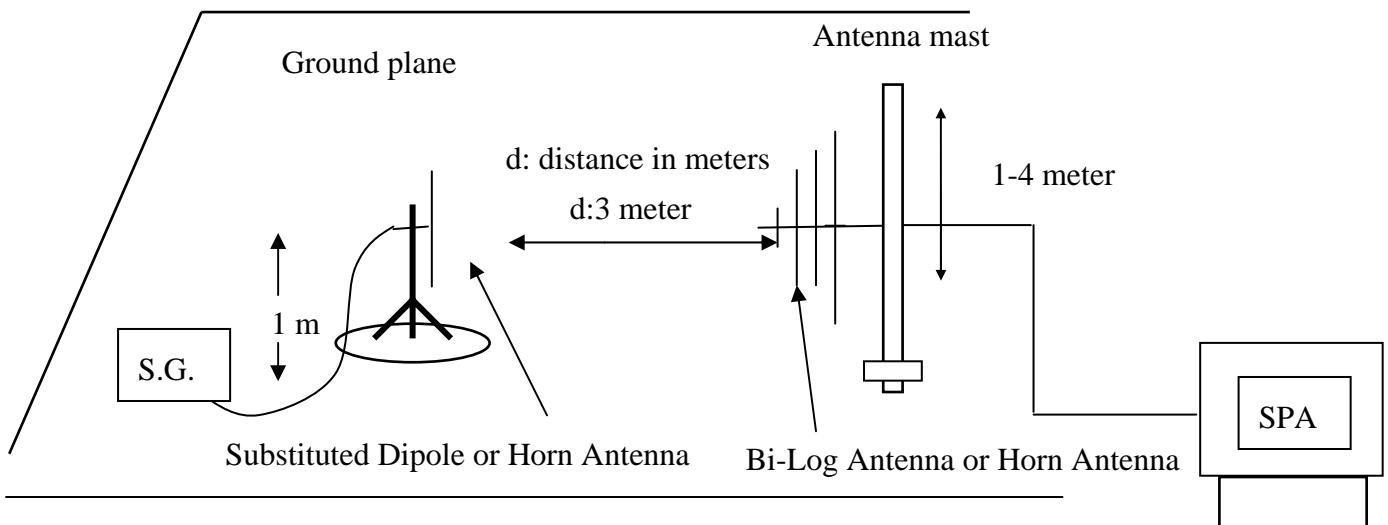
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

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



(C) Substituted Method Test Set-UP



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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.

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

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9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May 13, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
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)
51.34	48.83	V	-58.75	-0.58	0.91	-60.23	-13.00	-47.23
70.74	43.76	V	-68.00	-1.18	1.02	-70.20	-13.00	-57.20
140.58	38.56	V	-60.20	-7.79	1.42	-69.41	-13.00	-56.41
824.00	82.73	V	-4.60	-7.87	3.64	-16.12	-13.00	-3.12
1648.40	---	V		9.29	5.06		-13.00	
2472.60	61.23	V	-42.83	10.08	6.30	-39.06	-13.00	-26.06
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Operation Mode	: TX CH Low H Mode	Test Date:	May 13, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Sky
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)
51.34	45.64	H	-62.01	-0.58	0.91	-63.50	-13.00	-50.50
638.19	35.84	H	-54.80	-7.81	2.99	-65.59	-13.00	-52.59
664.38	37.70	H	-52.45	-7.82	3.09	-63.37	-13.00	-50.37
824.00	85.30	H	-2.36	-7.87	3.64	-13.88	-13.00	-0.88
1648.40	---	H		9.29	5.06		-13.00	
2472.60	65.86	H	-38.20	10.08	6.30	-34.42	-13.00	-21.42
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH Mid H Mode Test Date: May 13, 2008
 Fundamental Frequency : 836.60 MHz Test By: Sky
 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)
51.34	48.68	V	-58.90	-0.58	0.91	-60.38	-13.00	-47.38
70.74	43.78	V	-67.98	-1.18	1.02	-70.18	-13.00	-57.18
148.34	36.21	V	-61.60	-7.80	1.46	-70.86	-13.00	-57.86
320.03	37.33	V	-61.59	-7.81	2.18	-71.58	-13.00	-58.58
1673.20	---	V		9.36	5.10		-13.00	
2509.80	60.39	V	-43.49	10.09	6.35	-39.75	-13.00	-26.75
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-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: GPRS 850 Mode

Operation Mode : TX CH Mid H Mode Test Date: May 13, 2008
Fundamental Frequency : 836.60 MHz Test By: Sky
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)
51.34	46.09	H	-61.56	-0.58	0.91	-63.05	-13.00	-50.05
638.19	35.42	H	-55.22	-7.81	2.99	-66.01	-13.00	-53.01
1673.20	---	H		9.36	5.10		-13.00	
2509.80	64.59	H	-39.28	10.09	6.35	-35.54	-13.00	-22.54
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH High H Mode Test Date: May 13, 2008
 Fundamental Frequency : 848.80 MHz Test By: Sky
 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)
51.34	48.45	V	-59.13	-0.58	0.91	-60.61	-13.00	-47.61
70.74	43.46	V	-68.30	-1.18	1.02	-70.50	-13.00	-57.50
140.58	38.22	V	-60.54	-7.79	1.42	-69.75	-13.00	-56.75
320.03	37.75	V	-61.17	-7.81	2.18	-71.16	-13.00	-58.16
850.00	83.24	V	-3.47	-7.88	3.75	-15.10	-13.00	-2.10
1697.60	---	V		9.44	5.14		-13.00	
2546.40	62.89	V	-40.90	10.20	6.40	-37.10	-13.00	-24.10
3395.20	---	V		12.38	7.33		-13.00	
4244.00	---	V		12.63	8.46		-13.00	
5092.80	---	V		12.74	9.32		-13.00	
5941.60	---	V		13.81	9.89		-13.00	
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 850 Mode

Operation Mode : TX CH High H Mode Test Date: May 13, 2008
Fundamental Frequency : 848.80 MHz Test By: Sky
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)
51.34	46.04	H	-61.61	-0.58	0.91	-63.10	-13.00	-50.10
62.98	41.54	H	-69.99	-0.64	0.96	-71.60	-13.00	-58.60
148.34	37.21	H	-61.52	-7.80	1.46	-70.78	-13.00	-57.78
638.19	35.52	H	-55.12	-7.81	2.99	-65.91	-13.00	-52.91
850.00	83.01	H	-3.98	-7.88	3.75	-15.61	-13.00	-2.61
1697.60	---	H		9.44	5.14		-13.00	
2546.40	70.32	H	-33.46	10.20	6.40	-29.66	-13.00	-16.66
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-13.00	
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Low H Mode Test Date: May 13, 2008
Fundamental Frequency : 1850.20MHz Test By: Sky
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)
51.34	48.17	V	-59.41	-0.58	0.91	-60.89	-13.00	-47.89
761.38	35.16	V	-53.00	-7.87	3.46	-64.33	-13.00	-51.33
1850.00	80.34	V	-26.62	9.90	5.41	-22.13	-13.00	-9.13
3700.40	63.18	V	-38.40	12.61	7.73	-33.52	-13.00	-20.52
5550.60	44.09	V	-51.12	13.23	9.68	-47.58	-13.00	-34.58
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Low H Mode Test Date: May 13, 2008
Fundamental Frequency : 1850.20MHz Test By: Sky
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)
51.34	45.44	H	-62.21	-0.58	0.91	-63.70	-13.00	-50.70
565.44	36.75	H	-55.32	-7.77	2.80	-65.89	-13.00	-52.89
638.19	35.65	H	-54.99	-7.81	2.99	-65.78	-13.00	-52.78
861.29	35.23	H	-51.49	-7.90	3.77	-63.15	-13.00	-50.15
1850.00	76.35	H	-30.54	9.90	5.41	-26.05	-13.00	-13.05
3700.40	58.17	H	-43.19	12.61	7.73	-38.31	-13.00	-25.31
5550.60	46.40	H	-48.73	13.23	9.68	-45.18	-13.00	-32.18
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Mid H Mode Test Date: May 13, 2008
Fundamental Frequency : 1880MHz Test By: Sky
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)
51.34	47.68	V	-59.90	-0.58	0.91	-61.38	-13.00	-48.38
809.88	35.03	V	-52.63	-7.87	3.58	-64.09	-13.00	-51.09
3760.00	62.24	V	-39.06	12.60	7.82	-34.28	-13.00	-21.28
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH Mid H Mode Test Date: May 13, 2008
Fundamental Frequency : 1880MHz Test By: Sky
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)
51.34	45.42	H	-62.23	-0.58	0.91	-63.72	-13.00	-50.72
565.44	37.18	H	-54.89	-7.77	2.80	-65.46	-13.00	-52.46
638.19	36.45	H	-54.19	-7.81	2.99	-64.98	-13.00	-51.98
3760.00	58.70	H	-42.41	12.60	7.82	-37.62	-13.00	-24.62
5640.00	44.66	H	-50.23	13.36	9.73	-46.60	-13.00	-33.60
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH High H Mode Test Date: May 13, 2008
Fundamental Frequency : 1909.8 MHz Test By: Sky
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)
51.34	48.67	V	-58.91	-0.58	0.91	-60.39	-13.00	-47.39
155.13	37.65	V	-60.42	-7.80	1.48	-69.70	-13.00	-56.70
601.33	34.84	V	-55.65	-7.79	2.94	-66.38	-13.00	-53.38
1910.00	79.22	V	-27.72	10.08	5.51	-23.15	-13.00	-10.15
3821.00	62.51	V	-38.51	12.60	7.92	-33.83	-13.00	-20.83
3981.60	---	V		12.60	8.17		-13.00	
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode : TX CH High H Mode Test Date: May 13, 2008
Fundamental Frequency : 1909.8 MHz Test By: Sky
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)
51.34	46.33	H	-61.32	-0.58	0.91	-62.81	-13.00	-49.81
861.29	37.49	H	-49.23	-7.90	3.77	-60.89	-13.00	-47.89
1910.00	72.71	H	-34.14	10.08	5.51	-29.58	-13.00	-16.58
3821.00	59.51	H	-41.34	12.60	7.92	-36.66	-13.00	-23.66
3981.60	---	H		12.60	8.17		-13.00	
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

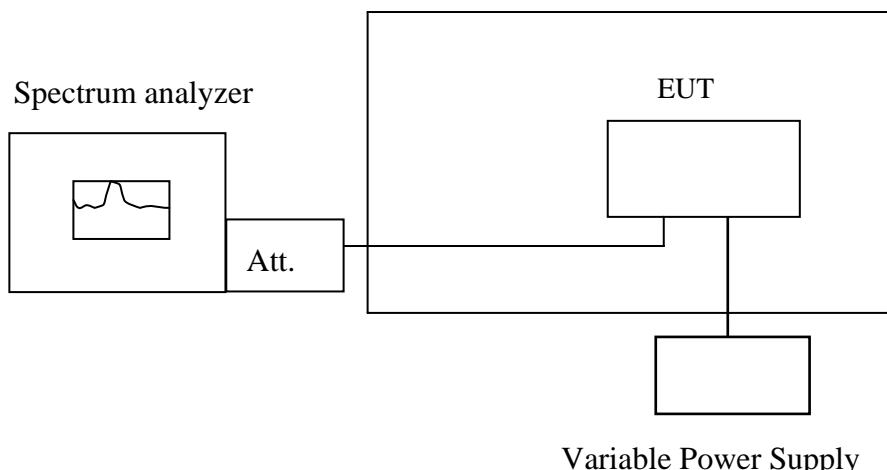
According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: +/-0.1ppm for 850MHz band

+/-0.04ppm for 1900MHz band

10.2 Test Set-up:

Temperature Chamber



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.

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10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circult	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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10.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 0.1 ppm = 83.6 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599985	18.00	83.6
3.7	-20	836.599988	15.00	83.6
3.7	-10	836.599995	8.00	83.6
3.7	0	836.599984	19.00	83.6
3.7	10	836.599991	12.00	83.6
3.7	20	836.600003	0.00	83.6
3.7	30	836.599990	13.00	83.6
3.7	40	836.599984	19.00	83.6
3.7	50	836.599980	23.00	83.6

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 0.04 ppm = 75.2 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1880.000033	-17.00	75.2
3.7	-20	1880.000022	-6.00	75.2
3.7	-10	1880.000015	1.00	75.2
3.7	0	1880.000008	8.00	75.2
3.7	10	1879.999990	26.00	75.2
3.7	20	1880.000016	0.00	75.2
3.7	30	1879.999993	23.00	75.2
3.7	40	1879.999980	36.00	75.2
3.7	50	1879.999978	38.00	75.2

Note: The battery is rated 3.7V dc.

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11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

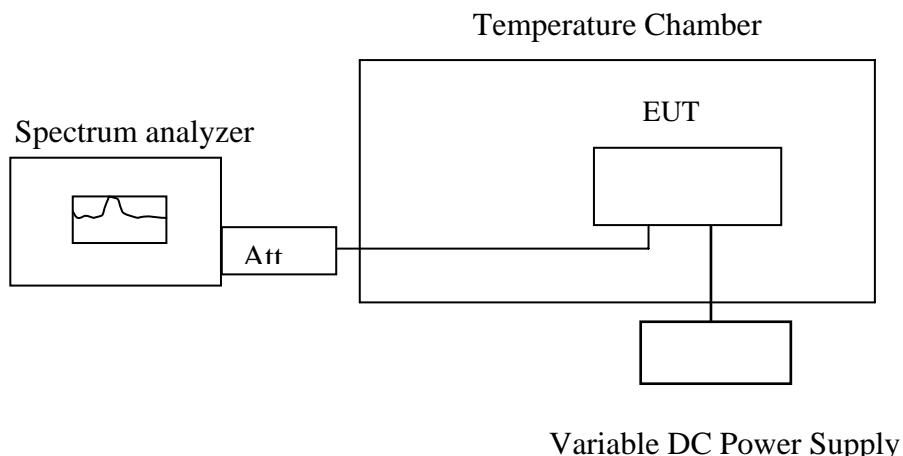
11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: +/-0.1ppm for 850MHz band

+/-0.04ppm for 1900MHz band

11.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

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.

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11.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circult	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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11.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 0.1 ppm = 83.6 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.26	25.00	826.600008	0.00	83.6
3.70	25.00	836.600003	-9999995.00	83.6
3.50	25.00	835.599958	-8999950.00	83.6
3.50 (End Point)	25.00	835.599958	-8999950.00	83.6

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 0.04 ppm = 75.2 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.26	25	1880.000010	0.00	75.2
3.70	25	1880.000018	-8.00	75.2
3.50	25	1879.999962	48.00	75.2
3.50 (Endpoint)	25	1879.999962	48.00	75.2

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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 C63.4-2001.
2. The EUT was plug-in DC power adaptort 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 110Vac/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.

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12.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2007	12/30/2008
LISN	Rolf-Heine	NNB-2/16Z	99013	01/10/2008	01/09/2009
Coaxial Cables	N/A	No. 3, 4	N/A	01/11/2008	01/10/2009

12.5 Measurement Result

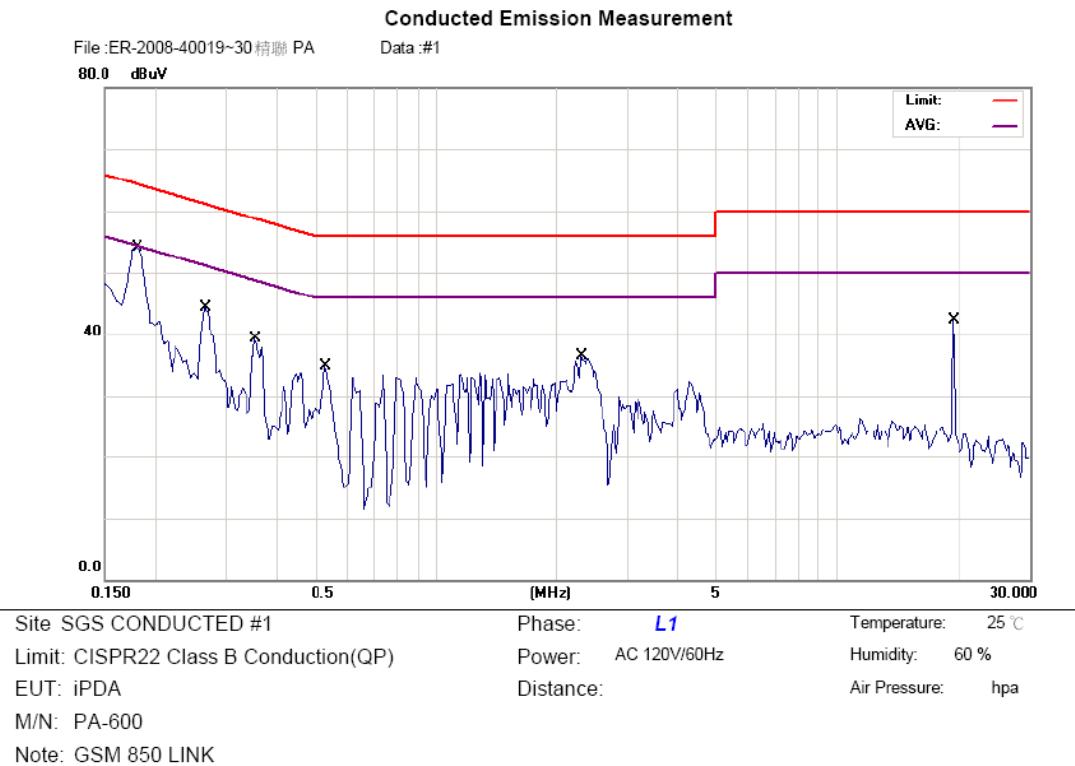
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GPRS 850 LINK			Test Date:	May 15, 2008
Temperature:	25 °C	Humidity:	60 %	Test By:	Sky



No.	Mk.	Freq.	Reading	Measure-	Limit	Over	Detector	Comment
			Level	Factor				
1		0.1800	50.97	0.26	51.23	64.49	-13.26	QP
2		0.1800	39.27	0.26	39.53	54.49	-14.96	AVG
3		0.2650	41.94	0.14	42.08	61.27	-19.19	QP
4		0.2650	28.99	0.14	29.13	51.27	-22.14	AVG
5		0.3550	36.94	0.11	37.05	58.84	-21.79	QP
6		0.3550	32.67	0.11	32.78	48.84	-16.06	AVG
7		0.5300	33.23	0.06	33.29	56.00	-22.71	QP
8		0.5300	27.69	0.06	27.75	46.00	-18.25	AVG
9		2.3000	34.29	0.04	34.33	56.00	-21.67	QP
10		2.3000	24.46	0.04	24.50	46.00	-21.50	AVG
11		19.5000	40.38	0.15	40.53	60.00	-19.47	QP
12	*	19.5000	39.47	0.15	39.62	50.00	-10.38	AVG

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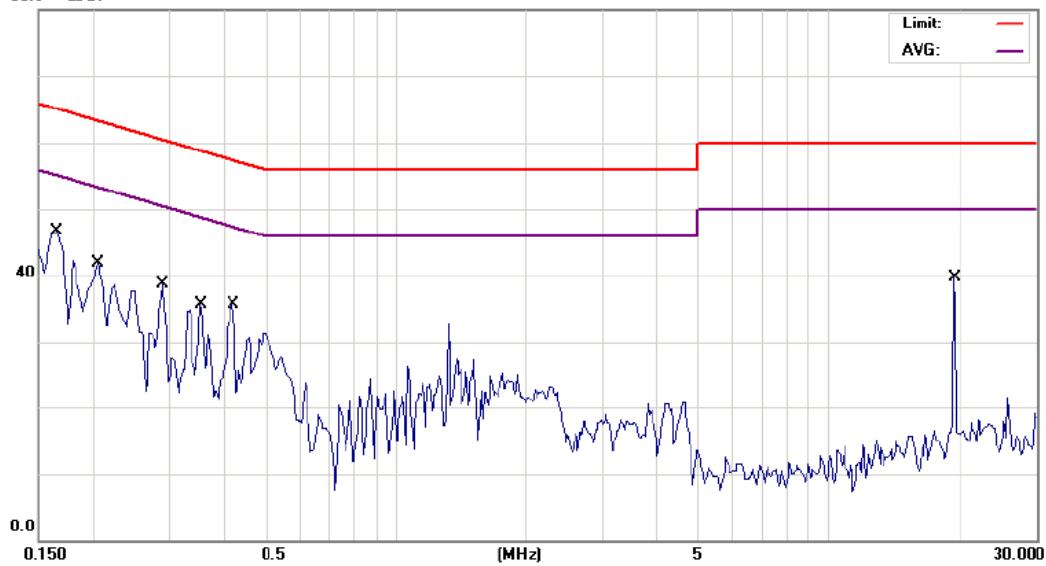
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Conducted Emission Measurement

File :ER-2008-40019~30 精聯 PA

Data #:2

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 25 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: iPDA

Distance:

Air Pressure: hpa

M/N: PA-600

Note: GSM 850 LINK

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over	
			Level		ment		dB	Detector
		MHz	dBuV		dBuV			
1		0.1650	48.88	0.32	49.20	65.21	-16.01	QP
2		0.1650	32.26	0.32	32.58	55.21	-22.63	AVG
3		0.2050	28.66	0.14	28.80	63.41	-34.61	QP
4		0.2050	11.21	0.14	11.35	53.41	-42.06	AVG
5		0.2900	31.12	0.11	31.23	60.52	-29.29	QP
6		0.2900	30.18	0.11	30.29	50.52	-20.23	AVG
7		0.3550	33.94	0.09	34.03	58.84	-24.81	QP
8		0.3550	31.81	0.09	31.90	48.84	-16.94	AVG
9		0.4200	31.55	0.07	31.62	57.45	-25.83	QP
10		0.4200	27.33	0.07	27.40	47.45	-20.05	AVG
11		19.5000	41.54	0.16	41.70	60.00	-18.30	QP
12	*	19.5000	39.80	0.16	39.96	50.00	-10.04	AVG

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AC POWER LINE CONDUCTED EMISSION TEST DATA

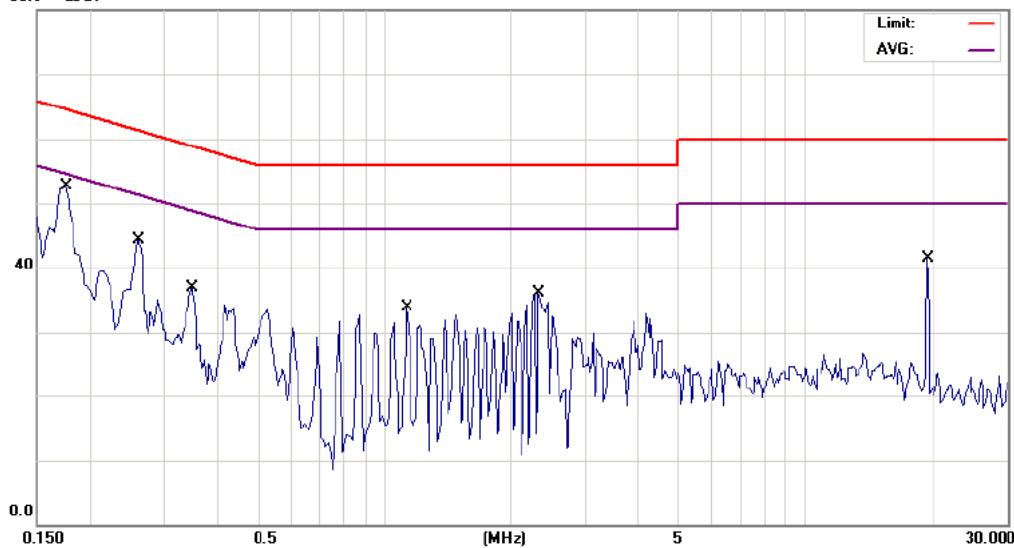
Operation Mode:	GPRS 1900 Link			Test Date:	May 15, 2008
Temperature:	25 °C	Humidity:	60 %	Test By:	Sky

Conducted Emission Measurement

File : ER-2008-40019~30 精聯 PA

Data : #4

80.0 dBuV



Site SGS CONDUCTED #1 Phase: **L1** Temperature: 25 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %
 EUT: ipDA Distance:
 M/N: PA-600 Air Pressure: hpa
 Note: GSM 1900 LINK

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment		Limit	Over	Detector	Comment
					MHz	dBuV	dB			
1		0.1750	51.05	0.27	51.32	64.72	-13.40	QP		
2		0.1750	33.34	0.27	33.61	54.72	-21.11	AVG		
3		0.2600	42.51	0.12	42.63	61.43	-18.80	QP		
4		0.2600	35.30	0.12	35.42	51.43	-16.01	AVG		
5		0.3500	34.92	0.10	35.02	58.96	-23.94	QP		
6		0.3500	29.72	0.10	29.82	48.96	-19.14	AVG		
7		1.1300	28.24	0.03	28.27	56.00	-27.73	QP		
8		1.1300	19.68	0.03	19.71	46.00	-26.29	AVG		
9		2.3300	22.58	0.03	22.61	56.00	-33.39	QP		
10		2.3300	19.08	0.03	19.11	46.00	-26.89	AVG		
11		19.5000	40.81	0.16	40.97	60.00	-19.03	QP		
12	*	19.5000	39.85	0.16	40.01	50.00	-9.99	AVG		

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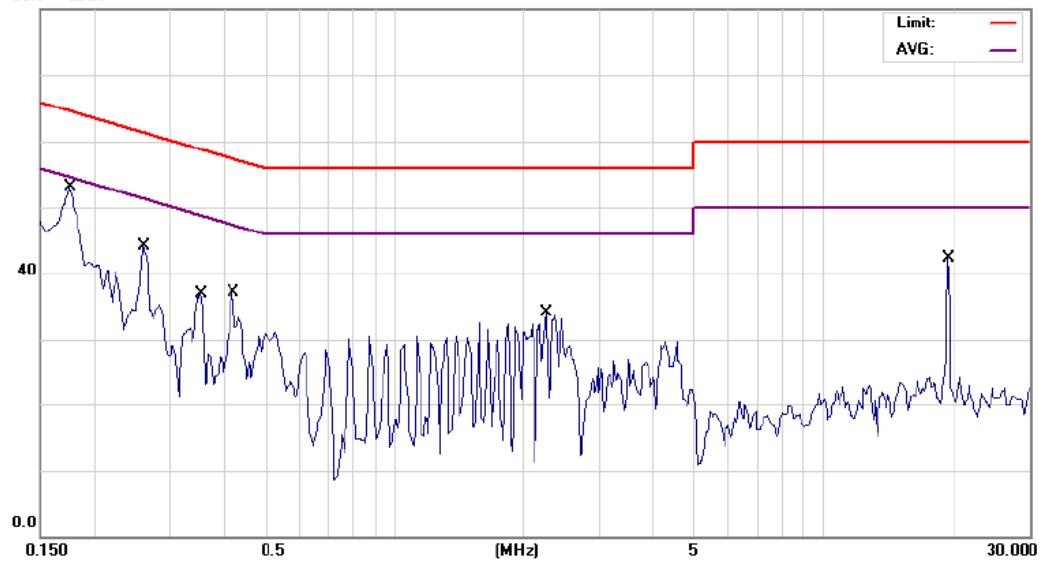
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Conducted Emission Measurement

File :ER-2008-40019~30 精聯 PA

Data :#3

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N** Temperature: 25 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: iPDA

Distance:

Air Pressure: hpa

M/N: PA-600

Note: GSM 1900 LINK

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over	
							Detector	Comment
1		0.1750	42.05	0.27	42.32	64.72	-22.40	QP
2		0.1750	26.45	0.27	26.72	54.72	-28.00	AVG
3		0.2600	32.56	0.12	32.68	61.43	-28.75	QP
4		0.2600	22.68	0.12	22.80	51.43	-28.63	AVG
5		0.3550	30.57	0.09	30.66	58.84	-28.18	QP
6		0.3550	26.80	0.09	26.89	48.84	-21.95	AVG
7		0.4200	33.08	0.07	33.15	57.45	-24.30	QP
8		0.4200	30.22	0.07	30.29	47.45	-17.16	AVG
9		2.2700	32.78	0.03	32.81	56.00	-23.19	QP
10		2.2700	12.06	0.03	12.09	46.00	-33.91	AVG
11		19.5000	40.60	0.16	40.76	60.00	-19.24	QP
12	*	19.5000	39.66	0.16	39.82	50.00	-10.18	AVG

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