

Report No.: EH/2008/C0031 Issue Date: Jan. 09, 2009

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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: PDA Phone

Brand Name: HTC

Model Name: HT-03A

FCC ID: NM8SPRD

Report No.: EH/2008/C0031

Issue Date: Jan. 09 2009

FCC Rule Part: 2,22H & 24E

Prepared for: HTC Corporation

No. 23 Xinghua Rd., Taoyuan City, Taoyuan

County 330, Taiwan, ROC

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.

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VER.IFICATION OF COMPLIANCE

Applicant: HTC Corporation

No. 23 Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, ROC

Product Name: PDA Phone

Brand Name: HTC

FCC ID: NM8SPRD

HT-03A Model No.:

N/A **Model Difference:**

File Number: EH/2008/C0031

Dec. 22, 2008 ~ Jan. 08, 2009 **Date of test:**

Dec. 22, 2008 **Date of EUT Received:**

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 and FCC PART 24 subpart E.

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

Test By:	Lazz Huang	Date:	Jan. 09, 2009	
	Jazz Huang / Engineer			
Prepared By:	Gigi yeh	Date:	Jan. 09, 2009	
	Gigi Yeh / Clerk			
Approved By	Timent Su	Date:	Jan. 09, 2009	
	Vincent Su / Manager			

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Version

Version No.	Date	Description
00	Jan. 09, 2009	Initial creation of document

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GENERAL INFORMATION

General:

Product Name	PDA Phone		
Brand Name	HTC		
Model Name	HT-03A		
Model Difference	N/A		
Data Cable (USB)	Model No.: DC U200, Supplier: ACON, MEC		
3.5mm Audio adapter Cable	Model No.: AC A100, Supplier: Cotron		
Mini USB ARIB converter	Model: No: AC J001, Supplier: MEC		
	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter		
Power Supply	Battery:	Model: SAPP160 Supplier: Total Wireless Solutions(TWS) WELLDONE	
	Adapter: Model No(US).: PSAA05A-050 Supplier: PHIHONG		

GSM and WCDMA:

	Operating Frequency				
	GSM/GPRS/EDGE 850 Class 12	824.2 MHz- 848.8 MHz	33 dBm		
	GSM/GPRS/EDGE 900 Class 12	880.2MHz – 914.8MHz	33 dBm		
Cellular Phone Standards	GSM/GPRS/EDGE 1800 Class 12	1710.2MHz-1784.8MHz	30 dBm		
Frequency Range and Power	GSM/GPRS/EDGE 1900 Class 12	1850.2MHz – 1909.8MHz	30 dBm		
	WCDMA/HSUPA/HSDPA Band I	1922.4MHz – 1977.6MHz	24 dBm		
	WCDMA/HSUPA/HSDPA Band VI	830MHz – 840MHz	24 dBm		
	GSM 850: 246KGXW				
Type of Emission	GSM 1900 :247KGXW				
Type of Emission	EDGE 850: 245KG7W				
	EDGE 1900:246KG7W				
IMEI	3580980200150550				

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Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Max. Output Power:	802.11 b: 17.05 dBm (Peak) 802.11 g: 17.04dBm (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:	PIFA Antenna / 1.1dBi.
Type of Emission	16M4M5D

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

Bluetooth:

Bluetooth Ver.sion	 □ V1.1 (GFSK) □ V1.2 (GFSK) □ V2.0 (GFSK) □ V2.0 + EDR (GFSK + /4DQPSK + 8DPSK) □ V2.1 + EDR (GFSK + /4DQPSK + 8DPSK) 		
Frequency Range	2402 – 2480MHz		
Channel number	79 channels max.		
Rated Power	0.05 dBm (Peak)		
Modulation type	Frequency Hopping Spread Spectrum (FHSS)		
Antenna Designation	PIFA Antenna / 1.1dBi.		
Type of Emission	1M38F2D		

This test report applies for GSM/EDGE 850, GSM/EDGE 1900

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: <u>NM8SPRD</u> 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 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.

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

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.



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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 AC Power Line Conducted Emissions

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

2.3.2 Conducted Measurement at Antenna Port:

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

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Hor.izontal and Ver.tical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 of ANSI C63.4:2003.



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2.4 Measurement Equipment Used:

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
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	05/13/208	05/13/2010	
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010	
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	
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	НР	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	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2008	02/21/2009
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-320	03/14/2008	03/13/2009
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	01/05/2008	01/04/2009
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	05/13/208	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
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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99% OCCUPIED BANDWIDTH EQUIPMENT List					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	UMBER	CAL.	
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	05/13/208	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009
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
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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OUT OF BAND EMISSION EQUIPMENT List								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
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	05/13/208	05/13/2010			
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010			
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2008	01/04/2009			
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2008	01/04/2009			
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009			
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			
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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FIELD STRENGTH OF SPURIOUS RADIATION EQUIPMENT List								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2008	02/21/2009			
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009			
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/14/2008	03/13/2009			
Radio Communication Analyzer	R & S	CMU200	102189	05/13/208	05/13/2010			
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010			
DC Block	Agilent	BLK-18	155452	07/05/2008	07/04/2009			
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2008	01/04/2009			
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2008	01/04/2009			
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009			
Pre-Amplifier	HP	8449B	3008A01973	01/05/2008	01/04/2009			
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	01/05/2008	01/04/2009			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	01/05/2008	01/04/2009			
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009			



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FREQUENCY STABILITY V.S. TEMPERATURE EQUIPMENT List								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2009			
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010			
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			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	02/13/2008	02/12/2009			
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			

FREQUENCY STABILITY V.S. VOLTAGE EQUIPMENT List									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2009				
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010				
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				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	02/13/2008	02/12/2009				
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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AC POWER LINE CONDUCTED EMISSION EQUIPMENT List									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009				
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2008	02/17/2009				
LISN	FCC	FCC-LISN-50/250-2 5-2-01	04034	02/18/2008	02/17/2009				
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009				

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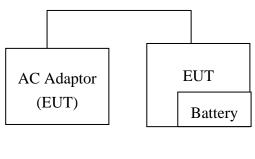


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2.5 Configuration of Tested System

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



Remote Side

CMU200

Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§24.232(c)(d)	RF Peak Power Output,	Compliant
924.232(C)(u)	Maximum Power Reduction	Compilant
§2.1046(a)		
§22.913(a)	ERP/ EIRP measurement	Compliant
§24.232(c)		
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051	Out of Band Emissions at Antenna	
§22.917(a)	Terminals and	Compliant
§24.238(a)	Band Edge	_
§2.1053		
§22.917(a)	Field Strength of Spurious Radiation	Compliant
§24.238(a)		
§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 (H mode) and lie down position (E1, E2 mode) for GSM with power adaptor. The worst-case of E2 position for GSM 850 band, E1 position for PCS 1900 band were reported.



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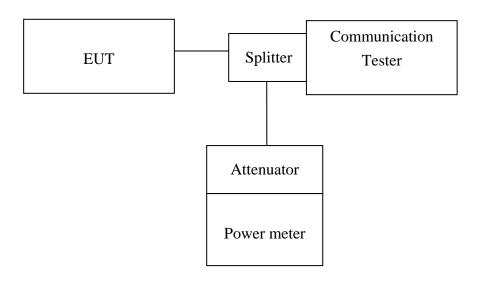
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5. RF PEAK POWER OUTPUT/ MAXMUM POWER REDUCTION MEAS-UREMENT

5.1 Standard Applicable

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

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 attenu- ator 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

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5.5 Measurement Result

EUT Mode	Frequency (MHz)	СН	Peak Power (dBm)	Avg. Power (dBm)
	824.2	128	33.50	33.30
GSM 850	836.6	190	33.30	33.10
	848.8	251	33.20	33.00

EUT Mode	Frequency (MHz)	СН	Peak Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)
	824.2	128	30.40	30.30	30.70	30.70
EDGE 850 (Class 12)	836.6	190	30.30	30.20	30.60	30.50
(21435 12)	848.8	251	30.20	30.10	30.40	30.40

EUT Mode	Frequency (MHz)	СН	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
	824.2	128	27.20	27.10	27.50	27.50
EDGE 850 (Class 12)	836.6	190	27.10	27.00	27.40	27.40
(31335 12)	848.8	251	27.00	26.90	27.30	27.20



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EUT Mode	Frequency	СН	Peak Power	Avg. Power
	(MHz)		(dBm)	(dBm)
	824.2	512	30.20	30.10
GSM 1900	836.6	661	30.00	29.90
	848.8	810	29.80	29.80

EUT Mode	Frequency (MHz)	СН	Peak Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Peak Power (1DN 3UP) (dBm)	Peak Power (1DN 4UP) (dBm)
ED CE 1000	1850.2	512	28.90	28.80	29.30	29.20
EDGE 1900 (Class 12)	1880	661	28.80	28.70	29.10	29.00
(Class 12)	1909.8	810	28.60	28.40	28.90	28.70

EUT Mode	Frequency (MHz)	СН	Avg. Power (1DN 1UP) (dBm)	Avg. Power (1DN 2UP) (dBm)	Avg. Power (1DN 3UP) (dBm)	Avg. Power (1DN 4UP) (dBm)
EDGE 1900 (Class 12)	1850.2	512	25.70	25.60	26.00	26.00
	1880.0	661	25.50	25.40	25.90	25.80
	1909.8	810	25.20	25.20	25.60	25.50

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Minimum Communications Power Measurement: PCS1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	30.8	27.8	25.4	23.8	21.8	19.8	17.8	15.8	13.9
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	11.8	9.8	7.9	5.8	3.9	1.8	-0.2		

Minimum Communications Power Measurement: EDGE1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.4	27.3	25	23.4	21.4	19.4	17.3	15.3	13.3
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	11.3	9.3	7.3	5.3	3.3	1.3	-0.7		

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



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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

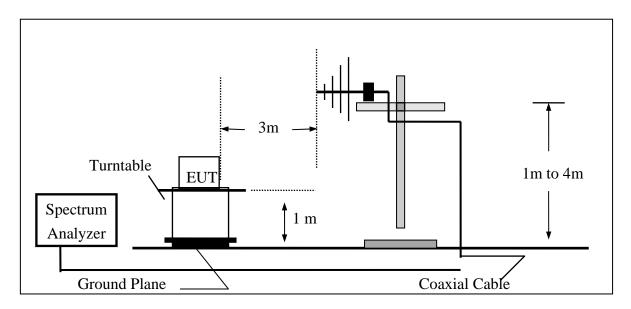
According to FCC §2.1046

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

FCC 24.232(c) 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



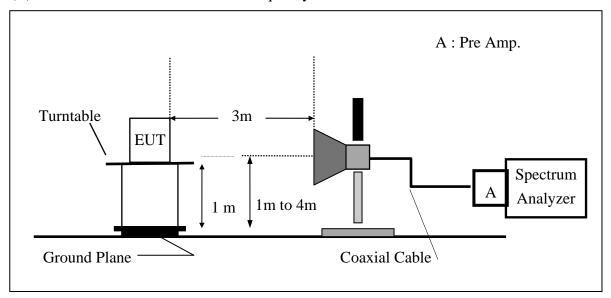
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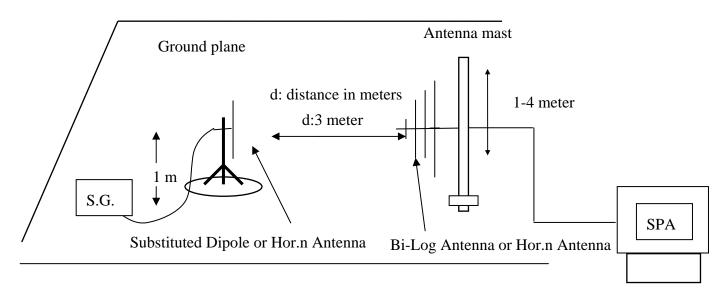
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(B) Radiated Emission Test Set-UP Frequency OVer. 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

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

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

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

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

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

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

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report



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6.5 Measurement Result

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
			Н	V	116.68	30.29	-7.87	3.62	18.79	38.45
				Н	129.69	43.42	-7.87	3.62	31.92	38.45
	02420	100	E1	V	121.35	34.96	-7.87	3.62	23.46	38.45
	824.20	128	EI	Н	129.50	43.23	-7.87	3.62	31.73	38.45
			E2	V	129.54	43.15	-7.87	3.62	31.65	38.45
			E2	Н	120.30	34.03	-7.87	3.62	22.53	38.45
			Н	V	116.64	30.39	-7.88	3.65	18.86	38.45
				Н	129.22	42.99	-7.88	3.65	31.46	38.45
	836.60	190	E1	V	119.70	33.45	-7.88	3.65	21.92	38.45
GSM 850	830.00			Н	128.87	42.64	-7.88	3.65	31.11	38.45
			E2	V	129.48	43.23	-7.88	3.65	31.70	38.45
				Н	119.99	33.76	-7.88	3.65	22.23	38.45
			Н	V	118.49	32.37	-7.88	3.68	20.81	38.45
			п	Н	129.89	43.70	-7.88	3.68	32.14	38.45
	040 00	251	E1	V	120.14	34.02	-7.88	3.68	22.46	38.45
	848.80	251	E1	Н	129.48	43.29	-7.88	3.68	31.73	38.45
			E2	V	130.59	44.47	-7.88	3.68	32.91	38.45
				Н	120.47	34.28	-7.88	3.68	22.72	38.45

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

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



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EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
			Н	V	124.86	20.47	9.90	5.56	24.81	33.00
				Н	123.37	19.19	9.90	5.56	23.53	33.00
	4070.00		E1	V	115.65	11.26	9.90	5.56	15.60	33.00
	1850.20	512	EI	Н	128.67	24.49	9.90	5.56	28.83	33.00
			БЭ.	V	127.33	22.94	9.90	5.56	27.28	33.00
			E2	Н	126.21	22.03	9.90	5.84	26.09	33.00
				V	123.89	19.53	9.99	5.61	23.91	33.00
			Н	Н	122.72	18.58	9.99	5.61	22.95	33.00
	1880.00	661	E1	V	114.85	10.49	9.99	5.61	14.87	33.00
PCS 1900	1880.00			Н	127.14	23.00	9.99	5.61	27.37	33.00
			E2	V	126.73	22.37	9.99	5.61	26.75	33.00
				Н	126.28	22.14	9.99	5.61	26.51	33.00
			Н	V	124.44	20.11	10.08	5.66	24.53	33.00
			п	Н	122.88	18.77	10.08	5.66	23.19	33.00
	1000.90	010	E1	V	114.76	10.43	10.08	5.66	14.85	33.00
	1909.80	810	E1	Н	127.58	23.47	10.08	5.66	27.89	33.00
			E2	V	126.31	21.98	10.08	5.66	26.40	33.00
				Н	125.39	21.28	10.08	5.66	25.70	33.00

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

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



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EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
			Н	V	123.78	37.39	-7.87	3.62	25.89	38.45
			п	Н	116.72	30.45	-7.87	3.62	18.95	38.45
	824.20	128	E1	V	109.64	23.25	-7.87	3.62	11.75	38.45
	024.20	120	Li	Н	123.87	37.60	-7.87	3.62	26.10	38.45
			E2	V	115.81	29.42	-7.87	3.62	17.92	38.45
			E2	Н	124.27	38.00	-7.87	3.62	26.50	38.45
			Н	V	123.32	37.07	-7.88	3.65	25.54	38.45
				Н	115.65	29.42	-7.88	3.65	17.89	38.45
EDGE 850	836.60	190	E1	V	110.34	24.09	-7.88	3.65	12.56	38.45
EDGE 650	030.00			Н	123.46	37.23	-7.88	3.65	25.70	38.45
			E2	V	115.62	29.37	-7.88	3.65	17.84	38.45
				Н	123.48	37.25	-7.88	3.65	25.72	38.45
			Н	V	123.79	37.67	-7.88	3.68	26.11	38.45
			11	Н	115.72	29.53	-7.88	3.68	17.97	38.45
	848.80	251	E1	V	111.47	25.35	-7.88	3.68	13.79	38.45
	848.80	251	EI	Н	123.97	37.78	-7.88	3.68	26.22	38.45
			E2	V	115.93	29.81	-7.88	3.68	18.25	38.45
			152	Н	123.62	37.43	-7.88	3.68	25.87	38.45

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

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



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EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
			Н	V	122.75	18.36	9.90	5.56	22.70	33.00
			11	Н	122.38	18.20	9.90	5.56	22.54	33.00
	1850.20	512	E1	V	111.06	6.67	9.90	5.56	11.01	33.00
	1630.20	312	Ei	Н	123.99	19.81	9.90	5.56	24.15	33.00
			E2	V	122.53	18.14	9.90	5.56	22.48	33.00
			E2	Н	120.42	16.24	9.90	5.84	20.30	33.00
		661	Н	V	123.15	18.79	9.99	5.61	23.17	33.00
				Н	122.44	18.30	9.99	5.61	22.67	33.00
EDGE	1880.00		E1	V	110.05	5.69	9.99	5.61	10.07	33.00
1900	1000.00			Н	122.80	18.66	9.99	5.61	23.03	33.00
			E2	V	122.17	17.81	9.99	5.61	22.19	33.00
			E2	Н	120.13	15.99	9.99	5.61	20.36	33.00
			Н	V	122.49	18.16	10.08	5.66	22.58	33.00
			11	Н	121.25	17.14	10.08	5.66	21.56	33.00
	1909.80	810	E1	V	110.64	6.31	10.08	5.66	10.73	33.00
	1707.00	810	LI	Н	123.72	19.61	10.08	5.66	24.03	33.00
			E2	V	121.86	17.53	10.08	5.66	21.95	33.00
			L'Z	Н	119.59	15.48	10.08	5.66	19.90	33.00

Remark:

(1) The RBW, VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=1000KHz,

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



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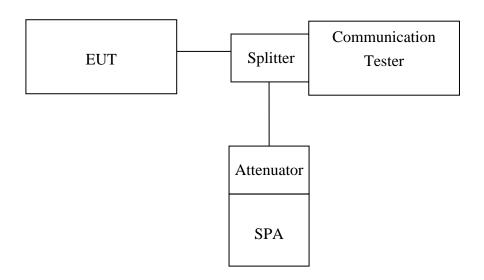
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

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 sHor.t 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

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7.5 Measurement Result:

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
GSM 850	824.20	128	0.246
	836.60	190	0.242
	848.80	251	0.242

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.247
	1880.00	661	0.244
	1909.80	810	0.246

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.244
	836.60	190	0.241
	848.80	251	0.245

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.246
	1880.00	661	0.245
	1909.80	810	0.244



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Figure 7-1: GSM 850 Channel Low

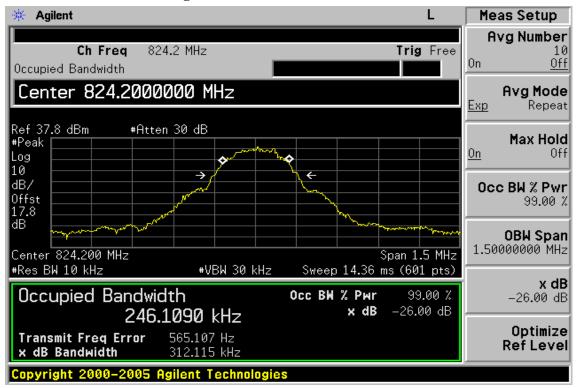
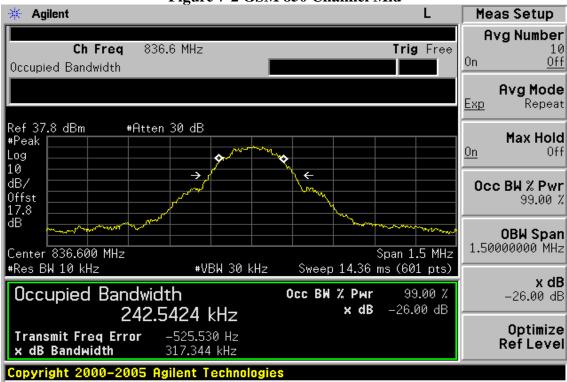


Figure 7-2 GSM 850 Channel Mid



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Figure 7-3: GSM 850 Channel High

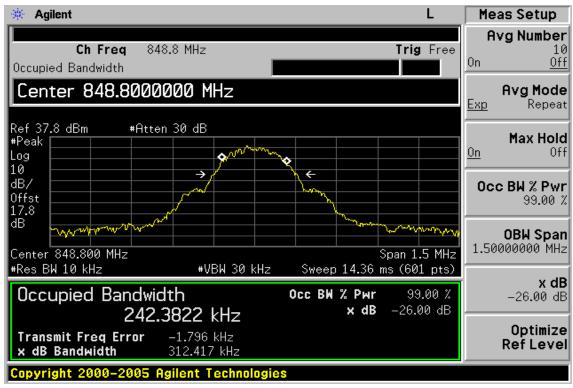


Figure 7-4: PCS 1900 Channel Low



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Figure 7-5 PCS 1900 Channel Mid

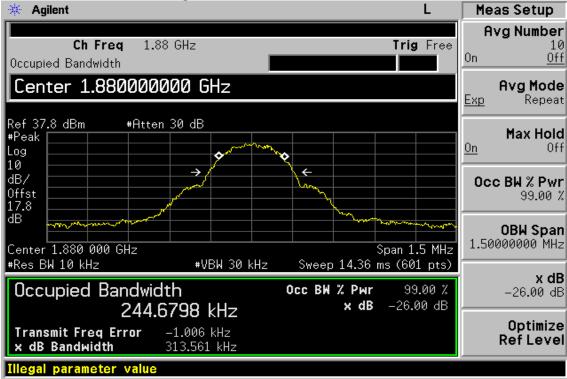
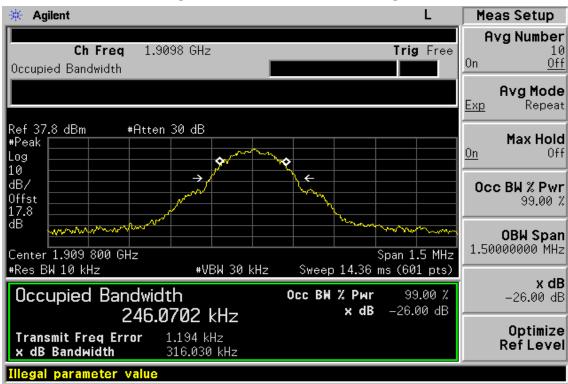


Figure 7-6: PCS 1900 Channel High



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Figure 7-7: EDGE 850 Channel Low

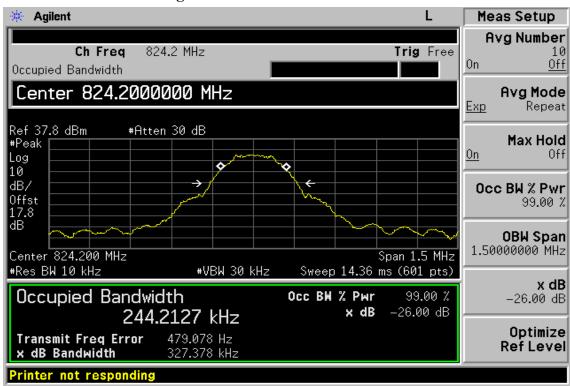
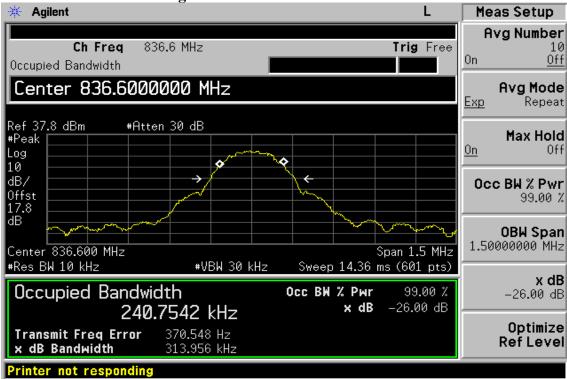


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

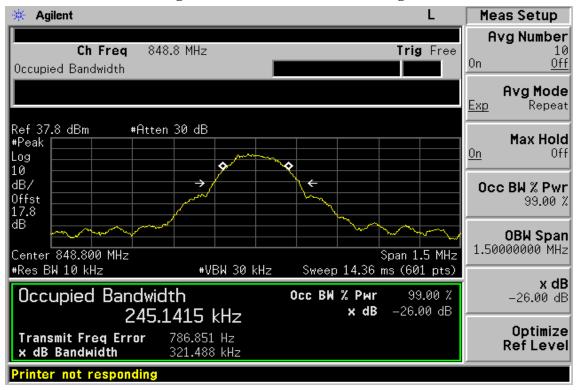
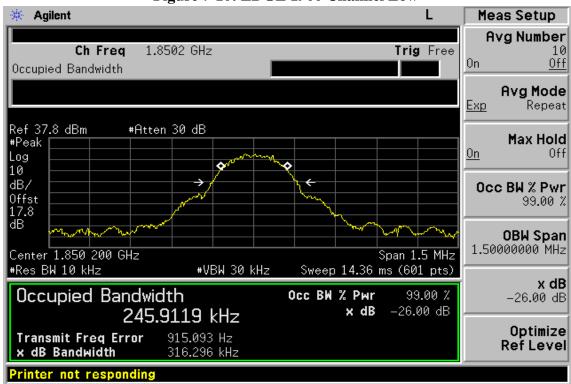


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11: EDGE 1900 Channel Mid

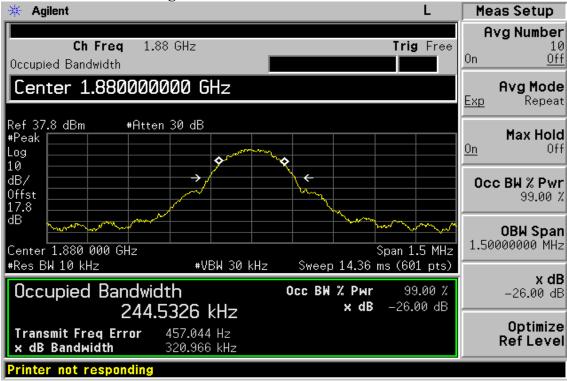
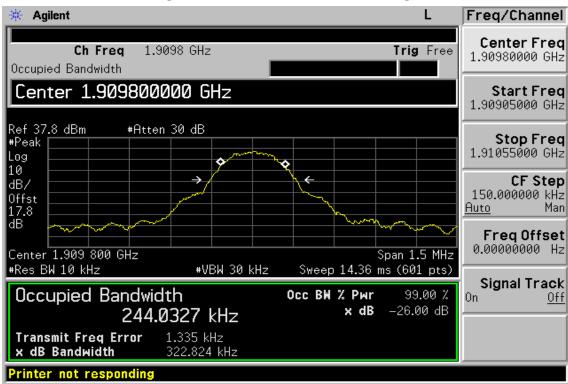


Figure 7-12: EDGE 1900 Channel High



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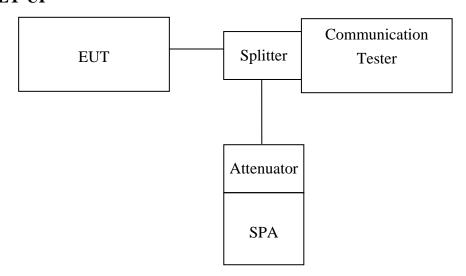
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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= 10 th harmonic. Limit = -13dBm

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

8.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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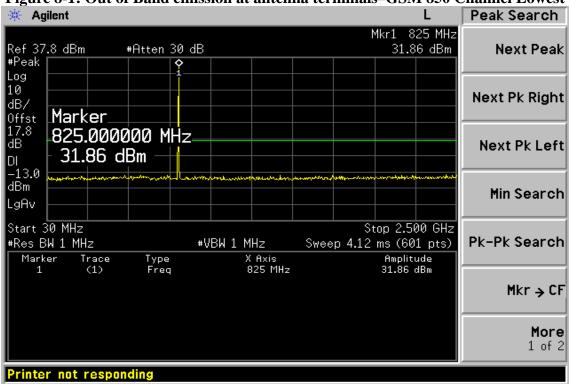


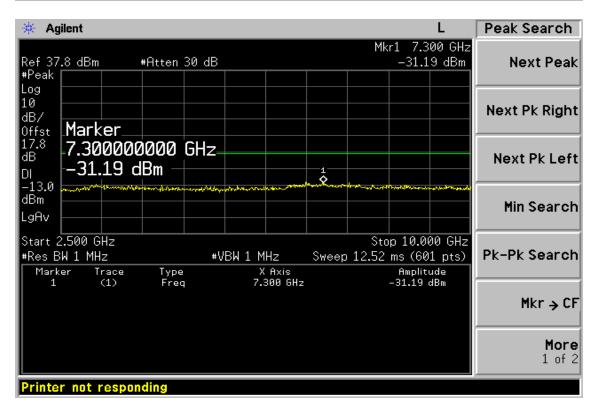
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8.5 Measurement Result

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





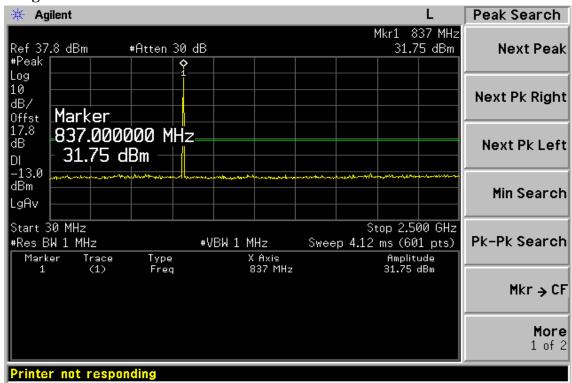
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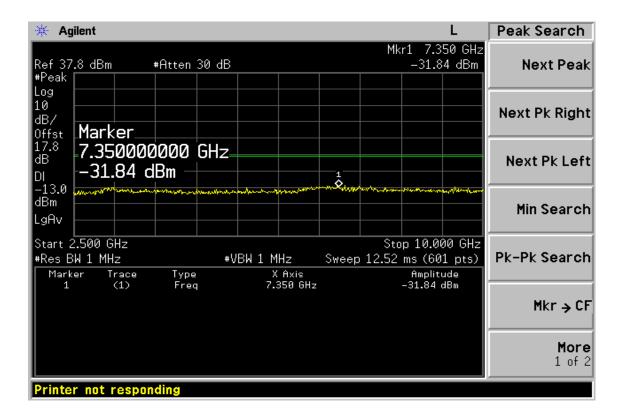


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Figure 8-2: Out of Band emission at antenna terminals -GSM 850 Channel Mid





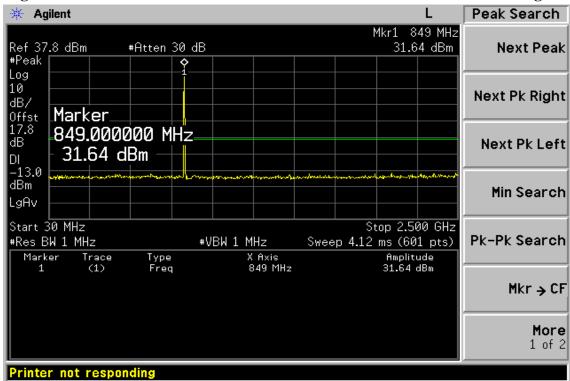
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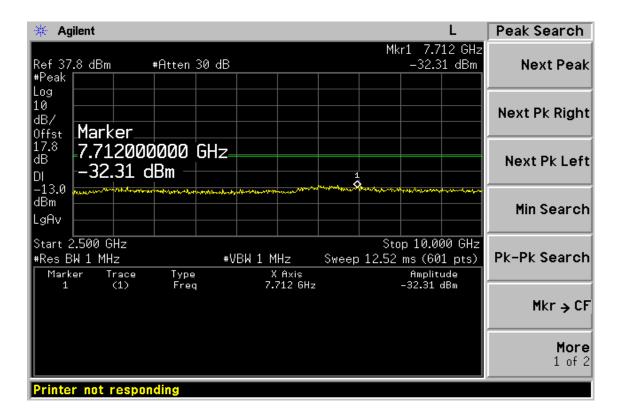


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Figure 8-3: Out of Band emission at antenna terminals-GSM 850 Channel Highest





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

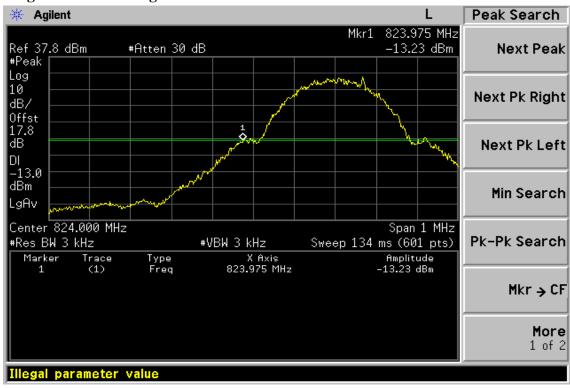


Figure 8-5: Band edge emission at antenna terminals –GSM 850 Channel Highest



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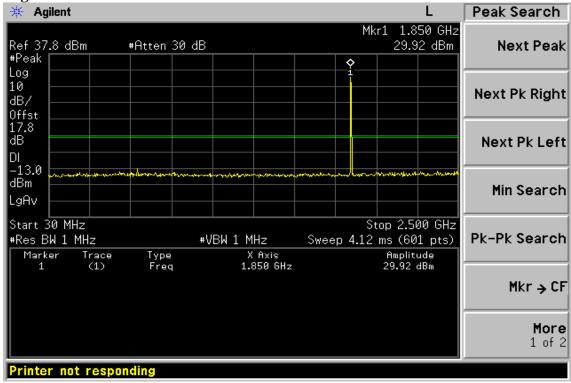
No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五工路 134 號 台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com

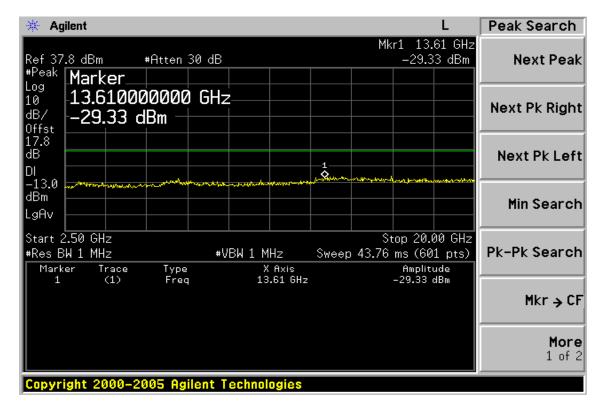


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Figure 8-6: Out of Band emission at antenna terminals-PCS 1900 Channel Lowest





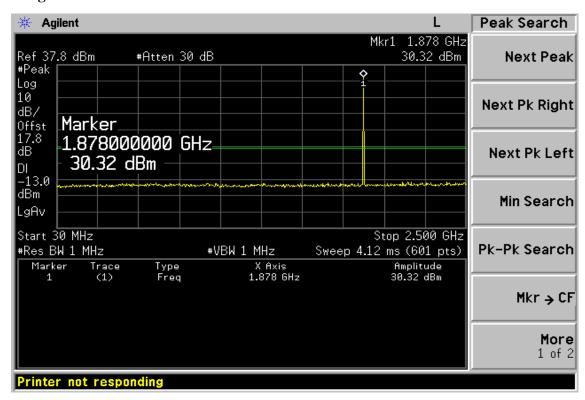
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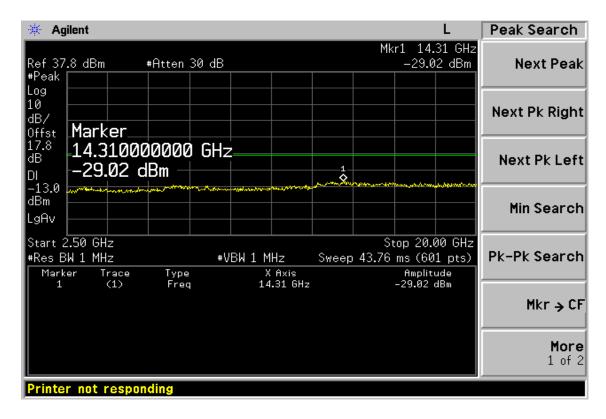


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Figure 8-7: Out of Band emission at antenna terminals -PCS 1900 Channel Mid





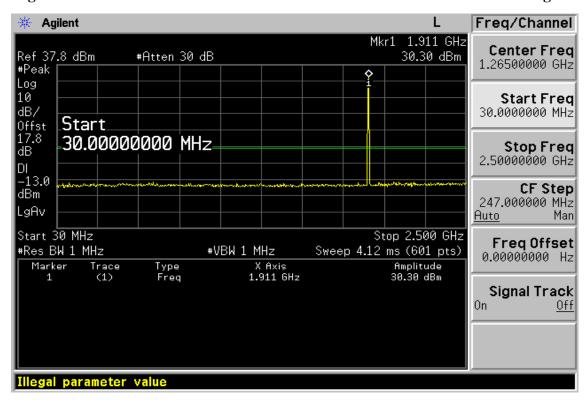
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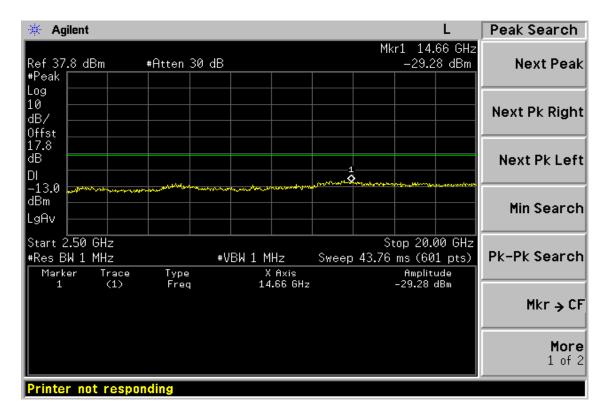


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Figure 8-8: Out of Band emission at antenna terminals-PCS 1900 Channel Highest





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Figure 8-9: Band 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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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

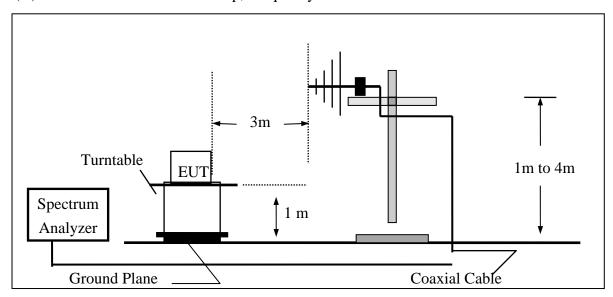
9.1 Standard Applicable

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



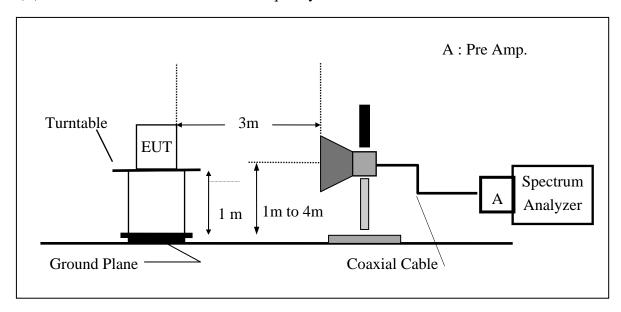
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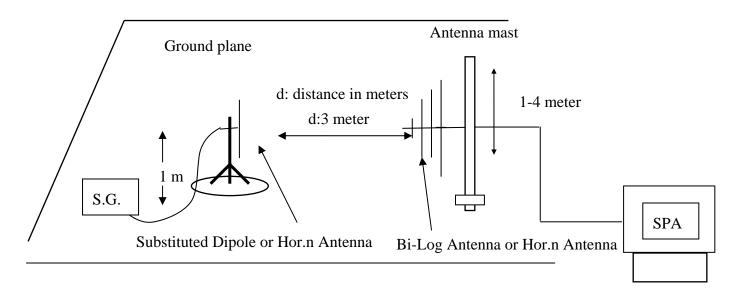
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(B) Radiated Emission Test Set-UP Frequency OVer. 1 GHz



(C) Substituted Method Test Set-UP



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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. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain(dBi) - Cable Loss <math>(dB)

9.4 Measurement Equipment Used:

Refer to section 2.4 in this report

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Jan. 06, 2009

Fundamental Frequency : 824.20 MHz Test By: Jazz Temperature : 25 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)
90.14	50.76	V	-52.42	-7.75	1.27	-61.44	-13.00	-48.44
104.69	47.76	V	-53.73	-7.76	1.38	-62.87	-13.00	-49.87
662.44	32.12	V	-56.93	-7.82	3.19	-67.94	-13.00	-54.94
824.00	83.79	V	-2.60	-7.87	3.62	-14.10	-13.00	-1.10
1648.40	48.90	V	-55.68	9.29	5.23	-51.62	-13.00	-38.62
2472.60	46.99	V	-54.02	10.08	6.53	-50.47	-13.00	-37.47
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	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: GSM 850 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Jan. 06, 2009

Fundamental Frequency : 824.20 MHz Test By: Jazz Temperature : 25 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)
38.73	44.30	Н	-58.89	-3.25	0.90	-63.04	-13.00	-50.04
104.69	44.37	Н	-58.14	-7.76	1.38	-67.28	-13.00	-54.28
523.73	40.19	Н	-52.44	-7.74	2.88	-63.05	-13.00	-50.05
824.00	73.39	Н	-12.88	-7.87	3.62	-24.38	-13.00	-11.38
1648.40	45.06	Н	-59.34	9.29	5.23	-55.28	-13.00	-42.28
2472.60	40.18	Н	-60.73	10.08	6.53	-57.18	-13.00	-44.18
3296.80		Н		12.17	7.26		-13.00	
4121.00		Н		12.61	8.33		-13.00	
4945.20		Н		12.65	9.19		-13.00	
5769.40		Н		13.55	9.80		-13.00	
6593.60		Н		12.05	10.61		-13.00	
7417.80		Н		11.49	11.28		-13.00	
8242.00		Н		11.48	12.26		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 836.60 MHz
Test By: Jazz
Temperature: 25
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)
43.58	44.71	V	-58.95	-1.92	0.98	-61.84	-13.00	-48.84
90.14	50.97	V	-52.21	-7.75	1.27	-61.23	-13.00	-48.23
611.03	32.37	V	-57.06	-7.79	3.06	-67.91	-13.00	-54.91
1673.20	46.20	V	-58.36	9.36	5.27	-54.26	-13.00	-41.26
2509.80	47.13	V	-53.65	10.09	6.58	-50.15	-13.00	-37.15
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	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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 E2 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 836.60 MHz
Test By: Jazz
Temperature: 25
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)
38.73	44.68	Н	-58.51	-3.25	0.90	-62.66	-13.00	-49.66
104.69	43.10	Н	-59.41	-7.76	1.38	-68.55	-13.00	-55.55
523.73	36.06	Н	-56.57	-7.74	2.88	-67.18	-13.00	-54.18
1673.20	48.61	Н	-55.77	9.36	5.27	-51.67	-13.00	-38.67
2509.80	37.29	Н	-63.41	10.09	6.58	-59.91	-13.00	-46.91
3346.40		Н		12.28	7.29		-13.00	
4183.00		Н		12.62	8.40		-13.00	
5019.60		Н		12.67	9.26		-13.00	
5856.20		Н		13.68	9.85		-13.00	
6692.80		Н		11.95	10.74		-13.00	
7529.40		Н		11.45	11.35		-13.00	
8366.00		Н		11.59	12.43		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 848.80 MHz
Test By: Jazz
Temperature: 25
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)
92.08	51.25	V	-51.68	-7.75	1.29	-60.72	-13.00	-47.72
104.69	47.95	V	-53.54	-7.76	1.38	-62.68	-13.00	-49.68
572.23	31.74	V	-59.45	-7.77	2.99	-70.22	-13.00	-57.22
850.00	84.49	V	-1.62	-7.88	3.68	-13.18	-13.00	-0.18
1697.60	44.94	V	-59.60	9.44	5.31	-55.47	-13.00	-42.47
2546.40	50.42	V	-50.22	10.20	6.63	-46.66	-13.00	-33.66
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	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 848.80 MHz
Test By: Jazz
Temperature: 25
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)
36.79	46.95	Н	-56.85	-4.16	0.91	-61.91	-13.00	-48.91
94.99	44.88	Н	-58.49	-7.75	1.31	-67.56	-13.00	-54.56
104.69	44.18	Н	-58.33	-7.76	1.38	-67.47	-13.00	-54.47
850.00	74.82	Н	-11.37	-7.88	3.68	-22.93	-13.00	-9.93
1697.60	41.62	Н	-62.73	9.44	5.31	-58.60	-13.00	-45.60
2546.40	43.27	Н	-57.33	10.20	6.63	-53.77	-13.00	-40.77
3395.20		Н		12.38	7.33		-13.00	
4244.00		Н		12.63	8.46		-13.00	
5092.80		Н		12.74	9.32		-13.00	
5941.60		Н		13.81	9.89		-13.00	
6790.40		Н		11.86	10.87		-13.00	
7639.20		Н		11.40	11.48		-13.00	
8488.00		Н		11.70	12.59		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: PCS 1900 Mode

Operation Mode : TX CH Low E1 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 1850.20MHz
Temperature: 25
Test By: Jazz
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	42.54	V	-63.64	-0.92	1.09	-65.66	-13.00	-52.66
92.08	48.77	V	-54.16	-7.75	1.29	-63.20	-13.00	-50.20
101.78	44.76	V	-57.00	-7.76	1.37	-66.12	-13.00	-53.12
1850.00	69.99	V	-34.40	9.90	5.56	-30.06	-13.00	-17.06
3700.40	34.40	V	-63.53	12.61	8.31	-59.23	-13.00	-46.23
5550.60		V		13.23	9.68		-13.00	
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	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: PCS 1900 Mode

Operation Mode : TX CH Low E1 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 1850.20MHz
Temperature: 25
Test By: Jazz
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)
38.73	46.12	Н	-57.07	-3.25	0.90	-61.22	-13.00	-48.22
75.59	45.00	Н	-67.36	-1.85	1.19	-70.40	-13.00	-57.40
94.99	45.90	Н	-57.47	-7.75	1.31	-66.54	-13.00	-53.54
1850.00	83.61	Н	-20.57	9.90	5.56	-16.23	-13.00	-3.23
3700.40	38.41	Н	-59.63	12.61	8.31	-55.33	-13.00	-42.33
5550.60		Н		13.23	9.68		-13.00	
7400.80		Н		11.50	11.28		-13.00	
9251.00		Н		11.92	13.10		-13.00	
11101.20		Н		11.66	14.33		-13.00	
12951.40		Н		13.63	15.98		-13.00	
14801.60		Н		12.76	17.27		-13.00	
16651.80		Н		15.92	19.04		-13.00	
18502.00		Н		18.75	21.21		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: PCS 1900 Mode

Operation Mode : TX CH Mid E1 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 1880MHz
Test By: Jazz
Temperature: 25
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)
30.00	43.92	V	-60.78	-7.34	0.95	-69.07	-13.00	-56.07
90.14	47.63	V	-55.55	-7.75	1.27	-64.57	-13.00	-51.57
104.69	42.74	V	-58.75	-7.76	1.38	-67.89	-13.00	-54.89
3760.00	33.32	V	-64.34	12.60	8.39	-60.12	-13.00	-47.12
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	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: PCS 1900 Mode

Operation Mode : TX CH Mid E1 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 1880MHz
Test By: Jazz
Temperature: 25
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)
38.73	46.28	Н	-56.91	-3.25	0.90	-61.06	-13.00	-48.06
104.69	43.91	Н	-58.60	-7.76	1.38	-67.74	-13.00	-54.74
892.33	31.35	Н	-53.71	-7.94	3.77	-65.42	-13.00	-52.42
3760.00	36.41	Н	-61.36	12.60	8.39	-57.15	-13.00	-44.15
5640.00		Н		13.36	9.73		-13.00	
7520.00		Н		11.45	11.33		-13.00	
9400.00		Н		11.93	13.15		-13.00	
11280.00		Н		11.92	14.56		-13.00	
13160.00		Н		13.33	16.11		-13.00	
15040.00		Н		13.76	17.57		-13.00	
16920.00		Н		15.27	19.66		-13.00	
18800.00		Н		18.68	21.34		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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: PCS 1900 Mode

Operation Mode : TX CH High E1 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 1909.8 MHz
Test By: Jazz
Temperature: 25
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)
38.73	46.37	V	-55.80	-3.25	0.90	-59.94	-13.00	-46.94
93.05	47.36	V	-55.45	-7.75	1.30	-64.50	-13.00	-51.50
101.78	43.86	V	-57.90	-7.76	1.37	-67.02	-13.00	-54.02
1910.00	69.66	V	-34.67	10.08	5.66	-30.25	-13.00	-17.25
3818.00	34.48	V	-62.92	12.60	8.47	-58.78	-13.00	-45.78
3981.60		V		12.60	8.69		-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	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High E1 Mode Test Date: Jan. 06, 2009

Fundamental Frequency: 1909.8 MHz
Test By: Jazz
Temperature: 25
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)
38.73	47.10	Н	-56.09	-3.25	0.90	-60.24	-13.00	-47.24
75.59	45.16	Н	-67.20	-1.85	1.19	-70.24	-13.00	-57.24
104.69	44.29	Н	-58.22	-7.76	1.38	-67.36	-13.00	-54.36
1910.00	80.58	Н	-23.53	10.08	5.66	-19.11	-13.00	-6.11
3818.00	34.40	Н	-63.11	12.60	8.47	-58.98	-13.00	-45.98
3981.60		Н		12.60	8.69		-13.00	
5972.40		Н		13.86	10.73		-13.00	
7963.20		Н		11.27	11.88		-13.00	
9954.00		Н		12.08	13.43		-13.00	
11944.80		Н		13.08	15.21		-13.00	
13935.60		Н		11.82	16.86		-13.00	
15926.40		Н		17.08	18.33		-13.00	
17917.20		Н		9.63	20.12		-13.00	
19908.00		Н		18.88	20.85		-13.00	

	30MHz - 80MHz: 5.04dB
Measurement uncertainty	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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$

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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

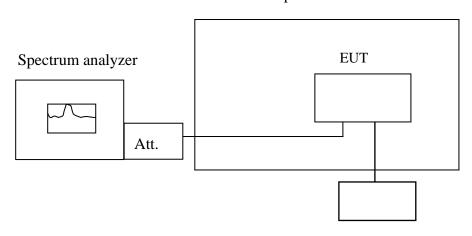
According to FCC §2.1055(d)(1)(2)

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

+/-2.5ppm for 1900MHz band

10.2 Test Set-up:

Temperature Chamber



Variable Power Supply

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 $+50^{\circ}$ C reached.

10.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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10.5 **Measurement Result**

Re	ference Frequency:	GSM Mid Channe	el 836.6 MHz @ 25	5°C						
Limit: +/- 2.5 ppm = 2091 Hz										
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Hz)						
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Lillit (HZ)						
3.7	-30	836.599966	20.00	2091						
3.7	-20	836.599965	21.00	2091						
3.7	-10	836.599978	8.00	2091						
3.7	0	836.599980	6.00	2091						
3.7	10	836.599981	5.00	2091						
3.7	20	836.599986	0.00	2091						
3.7	30	836.599982	4.00	2091						
3.7	40	836.599977	9.00	2091						
3.7	50	836.599975	11.00	2091						

R	eference Frequency	: PCS Mid Channe	el 1880 MHz @ 25	$^{\circ}\mathbb{C}$
	Limit	+/-2.5 ppm = 470	00 Hz	
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)	Della (112)	Lillit (112)
3.7	-30	1879.999964	-11.00	4700
3.7	-20	1879.999950	3.00	4700
3.7	-10	1879.999954	-1.00	4700
3.7	0	1879.999968	-15.00	4700
3.7	10	1879.999951	2.00	4700
3.7	20	1879.999953	0.00	4700
3.7	30	1879.999949	4.00	4700
3.7	40	1879.999940	13.00	4700
3.7	50	1879.999939	14.00	4700

Note: The battery is rated 3.7V dc.



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11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

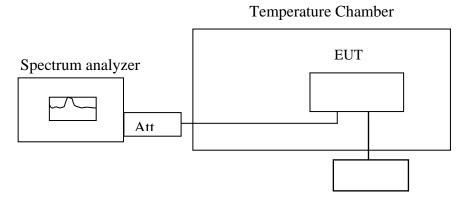
11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

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

+/-2.5ppm for 1900MHz band

11.2 Test Set-up:



Variable DC Power Supply

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.

11.4 Measurement Equipment Used:

Refer to section 2.4 in this report

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11.5 Measurement Result

R	eference Frequency	: GSM Mid Channe	el 836.6 MHz @ 25	$^{\circ}\mathbb{C}$
		:: +/- 2.5 ppm = 209		
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)
4.25	25.00	836.599970	0.00	2091.00
3.70	25.00	836.599971	-1.00	2091.00
3.50	25.00	836.599969	1.00	2091.00
3.4	25.00	026 500026	44.00	2001.00
(End Point)	25.00	836.599926	44.00	2091.00

F	Reference Frequency	: PCS Mid Channe	el 1880 MHz @ 25°	C
	Limit	: +/- 2.5 ppm = 470	00 Hz	
Power Supply	Environment	Frequency	Dolto (Hg)	Limit (Uz)
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)
4.25	25	1879.999953	0.00	4700
3.7	25	1879.999960	-7.00	4700
3.5	25	1879.999948	5.00	4700
3.4	25	1879.99995	6.00	4700
(Endpoint)	23	10/7.77773	0.00	7700



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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.

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

Note

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.

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^{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.



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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.

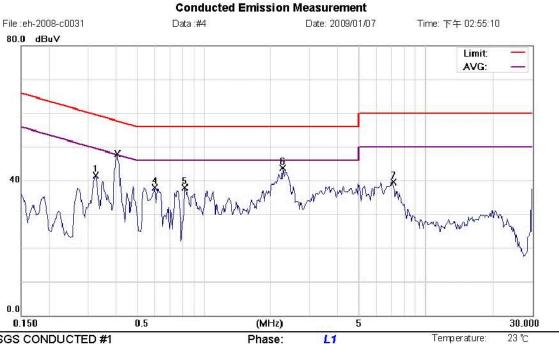


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK			Test Date:	Jan. 07, 2009
Temperature:	23 °C	Humidity:	56 %	Test By:	Jazz
Adapter mode:	PSAA05A-050	_			



AC120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: PDA Phone M/N: SAPP200

Note: GSM 850 LINK MODE

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3250	41.38	0.12	41.50	59.58	-18.08	peak	
2	0.4050	43.10	0.09	43.19	57.75	-14.56	QP	
3	0.4050	32.10	0.09	32.19	47.75	-15.56	AVG	
4	0.6000	37.92	0.06	37.98	56.00	-18.02	peak	
5	0.8200	37.82	0.05	37.87	56.00	-18.13	peak	
6 *	2.2700	43.58	0.04	43.62	56.00	-12.38	peak	
7	7.1400	39.38	0.10	39.48	60.00	-20.52	peak	

Power:

Distance:

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Humidity:

Air Pressure:

hpa



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Humidity:

Air Pressure:

56 %

Member of SGS Group

hpa





AC120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: PDA Phone M/N: SAPP200

Note: GSM 850 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBu∀	dBuV	dB	Detector	Comment
1		0.4050	45.50	0.08	45.58	57.75	-12.17	QP	
2	# c	0.4050	36.50	0.08	36.58	47.75	-11.17	AVG	
3		0.6200	38.89	0.05	38.94	56.00	-17.06	peak	
4		0.9000	38.78	0.03	38.81	56.00	-17.19	peak	
5		2.3200	41.11	0.03	41.14	56.00	-14.86	peak	
6		3.8900	38.30	0.04	38.34	56.00	-17.66	peak	
7		6.6200	39.67	0.12	39.79	60.00	-20.21	peak	

Power:

Distance:

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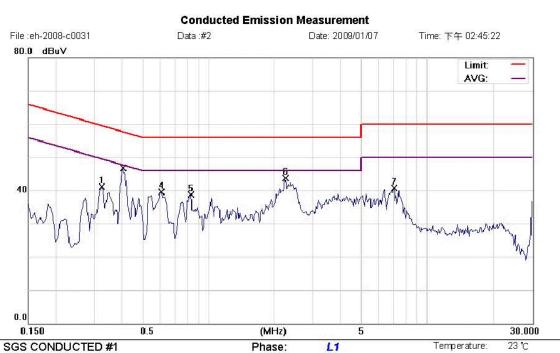
Humidity:

Air Pressure:

hpa

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	PCS 1900 + BT-	+ WLAN Link	Test Date:	Jan. 07, 2009	
Temperature:	23 °C	Humidity:	56 %	Test By:	Jazz
Adapter mode:	PSAA05A-050				



AC120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: PDA Phone

M/N: SAPP200

Note: GSM 1900 LINK MODE

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.3250	40.96	0.12	41.08	59.58	-18.50	peak	
2	0.4050	42.70	0.09	42.79	57.75	-14.96	QP	
3	0.4050	30.10	0.09	30.19	47.75	-17.56	AVG	
4	0.6100	39.36	0.06	39.42	56.00	-16.58	peak	
5	0.8300	38.73	0.05	38.78	56.00	-17.22	peak	
6 *	2.2400	43.60	0.04	43.64	56.00	-12.36	peak	
7	7.0600	40.66	0.10	40.76	60.00	-19.24	peak	

Power:

Distance:

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Humidity:

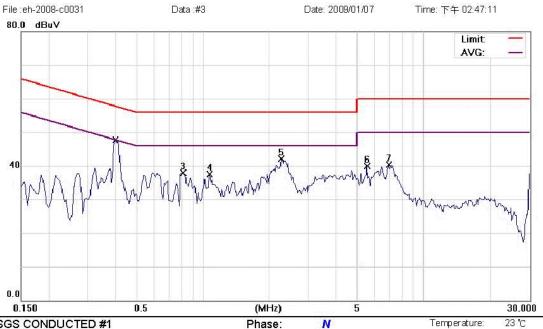
Air Pressure:

56 %

Member of SGS Group

hpa

Conducted Emission Measurement



Site SGS CONDUCTED #1

Limit: CISPR22/11 Class B Conduction(QP)

EUT: PDA Phone

M/N: SAPP200

Note: GSM 1900 LINK MODE

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBuV	dB	Detector	Comment
1 *	0.4000	44.10	0.08	44.18	57.85	-13.67	QP	
2	0.4000	32.10	0.08	32.18	47.85	-15.67	AVG	
3	0.8100	37.90	0.04	37.94	56.00	-18.06	peak	
4	1.0700	37.49	0.03	37.52	56.00	-18.48	peak	
5	2.2700	42.10	0.03	42.13	56.00	-13.87	peak	
6	5.5600	39.73	0.08	39.81	60.00	-20.19	peak	
7	6.9800	40.22	0.14	40.36	60.00	-19.64	peak	

Power:

Distance:

AC120V/60Hz

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