

Report No.: ER/2007/B0059 Issue Date: Dec. 11, 2007

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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: GSM 850/PCS 1900 mobile phone

Brand Name: ALCATEL

Model Name: Bubble US

Market Name: OT-V270A

FCC ID: RAD069

Report No.: ER/2007/B0059

Issue Date: Dec. 11, 2007

FCC Rule Part: 2,22H & 24E

Prepared for: T&A mobile phones

3/F, B2 Block, Digital Technology Yard, Gaoxin

Nan Qi Road, Nan Shan District, Shenzhen,

Guangdong, P.R.China

Prepared by: SGS Taiwan Ltd.

No. 134, Wu Kung Rd., Wuku Industrial Zone,

Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: T&A mobile phones

3/F,B2 Block,Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan

District, Shenzhen, Guangdong, P.R. China

Product Name: GSM 850/PCS 1900 mobile phone

FCC ID Number: RAD069

Brand Name: ALCATEL

Model No.: Bubble US

Market name: OT-V270A

Model Difference: N/A

File Number: ER/2007/B0059

Date of test: Nov. 29, 2007 ~ Dec. 10, 2007

Date of EUT Received: Nov. 28, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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-603-13-2002 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:	Bondi Jin	Date	Dec. 11, 2007
(F3)	Bondi liu / Engineer		CITE
Prepared By:	Alex Hsieh	Date	Dec. 11, 2007
Approved By:	Alex Hsieh / Sr. Engineer Vincent Su/Manager	Date	Dec. 11, 2007

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1. GENERAL INFORMATION

Product:	GSM 850/PCS 1900 mobile phone						
Model Name:	Bubble	Bubble					
Market name:	OT-V270A	OT-V270A					
Model Difference:	N/A						
Brand Name:	ALCATEL						
Simple Hands-Free (SHF):	T5001578AAAA						
	3.7 Vdc re-chargea	able battery or 5Vdc by AC/DC power adaptors					
Power Supply	Battery Model: T5001298AAAA,Supplier : (BYD)						
	Adapter Model: S002EU0450030,Supplier: (Tenpao)						

GSM:

Frequency Range and	GSM 850: 824MHz –849MHz	33 dBm	
Power	PCS 1900: 1850MHz –1910MHz	30 dBm	
Type of Emission:	300KGXW		
Software Version:	N/A		
Hardware Version:	N/A		
IMEI:	01143300000018		

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

This submittal(s) (test report) is intended for FCC ID: **RAD069** 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.

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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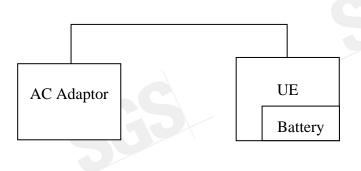


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2.4. Configuration of Tested System

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



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 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)	RF Power Output	Compliant
§24.232(a)		
§2.1046(a)		
§22.913(a)	ERP/ EIRP measurement	Compliant
§24.232(a)		
§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 band with max. 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 both GSM and GPRS with all power adaptors, earphone. The worst-case E1 mode for GSM 850 band and H mode for GSM 1900 band with adaptor for channel Low, Mid and High at GSM mode was reported.

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5. RF POWER OUTPUT MEASUREMENT

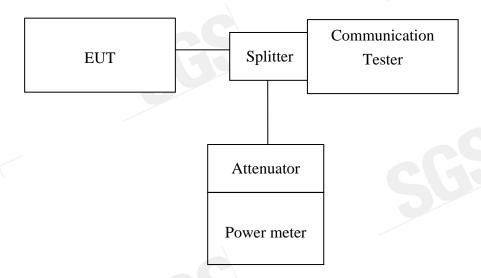
5.1. Standard Applicable

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.

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5.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008			
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2007	06/27/2008			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008			
Communication Test	R&S	SMU200	N/A	N/A	N/A			
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/27/2008			
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/27/2008			
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-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008			
Attenuator	Mini-Circult	BW-S6W5	N/A	09/23/2007	09/22/2008			
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008			
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A			

5.5. Measurement Result

EUT Mode	Frequency (MHz)	СН	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
	824.20	128	31.08	0.00	31.08
GSM 850	836.60	190	31.28	0.00	31.28
	848.80	251	31.31	0.00	31.31

EUT Mode	Frequency (MHz)	СН	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
	1850.20	512	29.79	0.00	29.79
PCS 1900	1880.00	661	29.97	0.00	29.97
	1909.80	810	29.54	0.00	29.54

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6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable

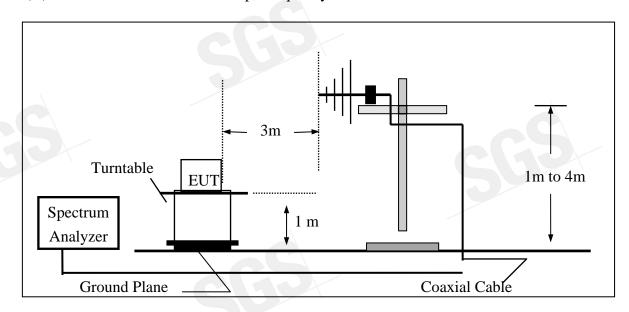
According to FCC §2.1046

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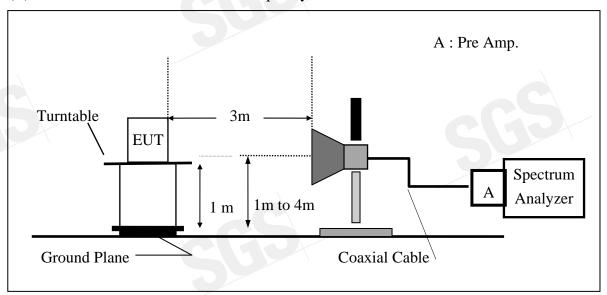
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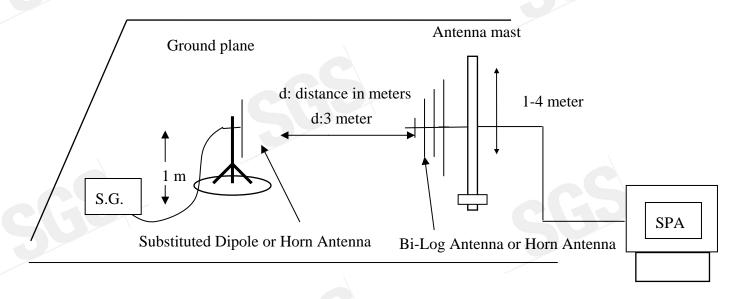
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. Measurement Procedure

The EUT was placed on 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.

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. And Peak detector was used during this test.

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:

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

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

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6.4. Measurement Equipment Used:

0.4. Measurement					1
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/27/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	Schwarzbeck	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	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
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	Schwarzbeck	VHAP	908/909	06/10/2006	06/09/2008
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2006	06/09/2008
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2007	08/15/2008

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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	121.76	34.44	-7.87	3.64	22.92	38.45
			11	Н	129.69	42.03	-7.87	3.64	30.52	38.45
	824.20	128	E1	V	131.29	43.97	-7.87	3.64	32.45	38.45
	624.20	120	E1	Н	123.22	35.56	-7.87	3.64	24.05	38.45
			E2	V	125.90	38.58	-7.87	3.64	27.06	38.45
				Н	130.25	42.59	-7.87	3.64	31.08	38.45
			Н	V	122.45	35.42	-7.88	3.70	23.85	38.45
	836.60		11	Н	129.93	42.59	-7.88	3.70	31.02	38.45
GSM 850		190	E1	V	131.57	44.54	-7.88	3.70	32.97	38.45
GSM 630	830.00	190	151	Н	124.24	36.90	-7.88	3.70	25.33	38.45
			E2	V	124.81	37.78	-7.88	3.70	26.21	(dBm) 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45
	\		E2	Н	130.51	43.17	-7.88	3.70	31.60	38.45
			Н	V	121.76	35.02	-7.88	3.75	23.39	38.45
			251 E1	Н	130.14	43.12	-7.88	3.75	31.49	38.45
	848.80	251		V	131.26	44.52	-7.88	3.75	32.89	38.45
	040.00	<i>23</i> 1		Н	121.43	34.41	-7.88	3.75	22.78	38.45
			E2	V	125.16	38.42	-7.88	3.75	26.79	38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45 38.45
			E2	Н	131.33	44.31	-7.88	3.75	32.68	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

(2) Peak detector was used during test.

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6.6. Measurement Result

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	122.74	15.78	9.90	5.41	20.27	33.00	
				Н	130.67	23.78	9.90	5.41	28.27	33.00	
	1850.20	512	E1	V	130.11	23.15	9.90	5.41	27.64	33.00	
	1650.20	312	Li	Н	124.75	17.86	9.90	5.41	22.35	27.64 33.00 22.35 33.00 22.28 33.00 24.92 33.00 20.43 33.00 28.82 33.00 27.85 33.00 23.54 33.00	
			E2	V	124.75	17.79	9.90	5.41	22.28	33.00	
			152	Н	127.75	20.86	9.90	5.84	24.92	33.00	
			Н	V	122.85	15.90	9.99	5.46	20.43	33.00	
			11	Н	131.16	24.29	9.99	5.46	28.82	33.00	
PCS 1900	1880.00	661	E1	V	130.27	23.32	9.99	5.46	27.85	33.00	
FCS 1900	1880.00	001	Ei	Н	125.88	19.01	9.99	5.46	23.54	33.00	
			E2	V	128.57	21.62	9.99	5.46	26.15	33.00	
	\		122	Н	130.91	24.04	9.99	5.46	28.57	33.00	
			Н	V	122.69	15.75	10.08	5.51	20.32	33.00	
			11	Н	131.01	24.16	10.08	5.51	28.72	33.00	
	1909.80	810	10 E1	V	130.39	23.45	10.08	5.51	28.02	(dBm) 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00	
	1707.00	010		Н	125.04	18.19	10.08	5.51	22.75	33.00	
			E2	V	128.76	21.82	10.08	5.51	26.39	33.00	
			£2	152	Н	130.47	23.62	10.08	5.51	28.18	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

(2) Peak detector was used during test.

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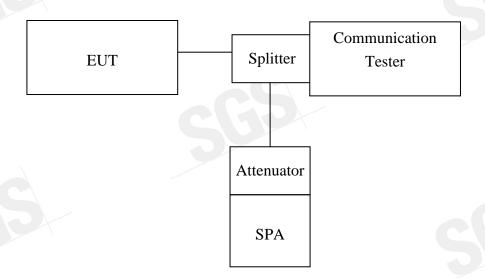
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

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:

1									
Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
ТҮРЕ		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008				
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/27/2008				
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/27/2008				
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/27/2008				
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A				
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008				
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008				
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008				
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008				
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008				

7.5. Measurement Result:.

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)	
	824.20	128	0.2421	
GSM 850	836.60	190	0.2456	
	848.80	251	0.2473	

EUT Mode	Frequency (MHz)	СН	99% Bandwidth (MHz)	
PCS 1900	1850.20	512	0.2428	
	1880.00	661	0.2400	
	1909.80	810	0.2449	

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Figure 7-1: GSM Channel Low

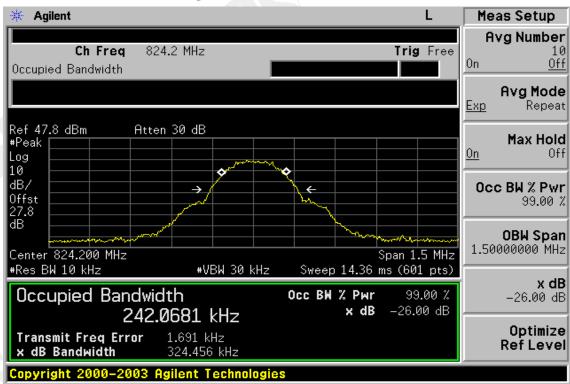
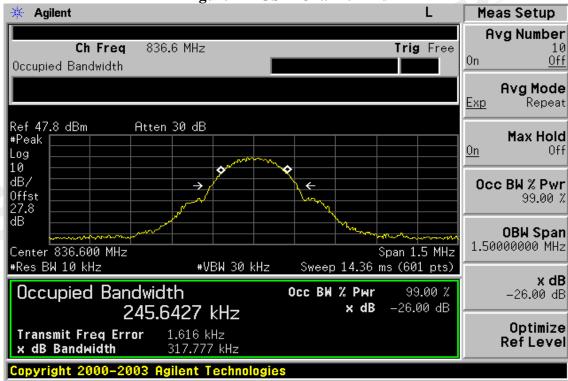


Figure 7-2 GSM Channel Mid



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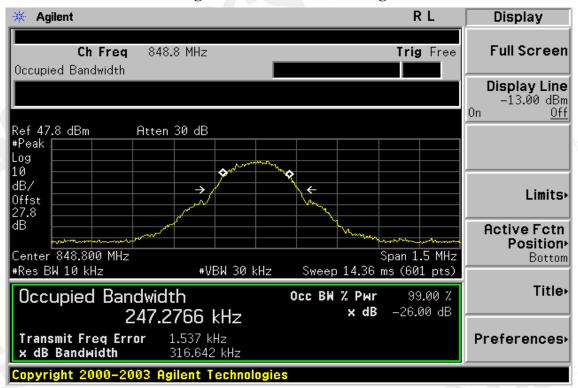
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Figure 7-3: GSM Channel High



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Figure 7-4: PCS Channel Low

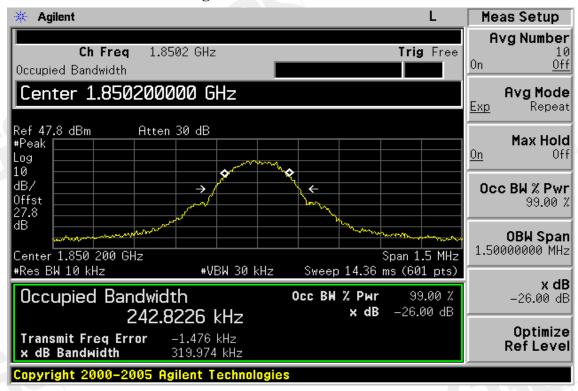
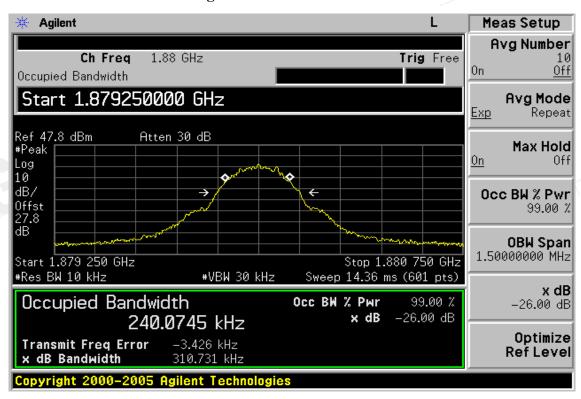


Figure 7-5 PCS Channel Mid



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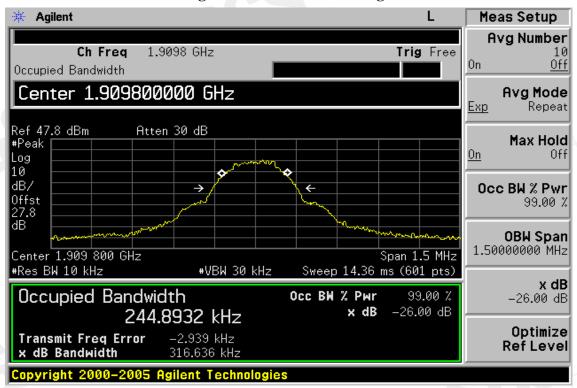
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Figure 7-6: PCS Channel High



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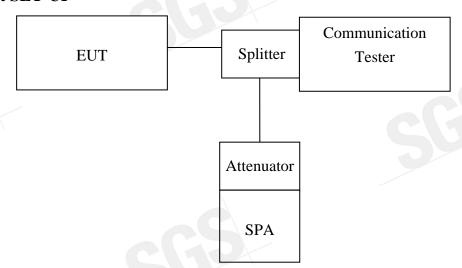
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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.

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8.4. Measurement Equipment Used:

Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008				
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/27/2008				
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/27/2008				
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/27/2008				
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008				
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A				
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008				
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008				
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008				
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008				
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008				
Band reject filter	Wicro-tronics	BRM13462	001	06/28/2007	06/27/2008				

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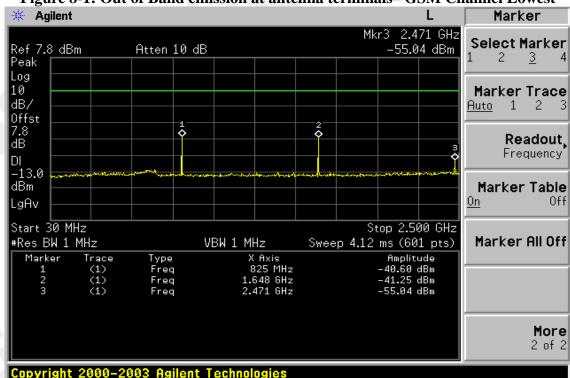


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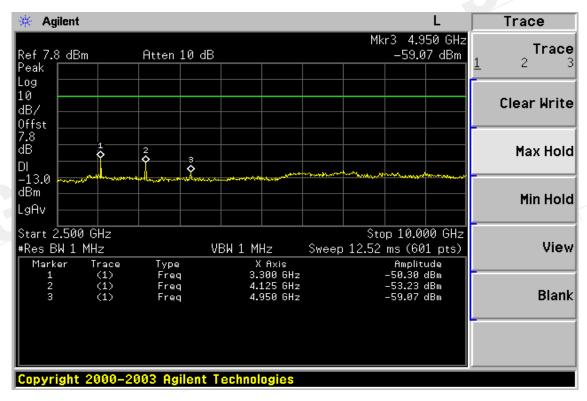
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8.5. Measurement Result

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







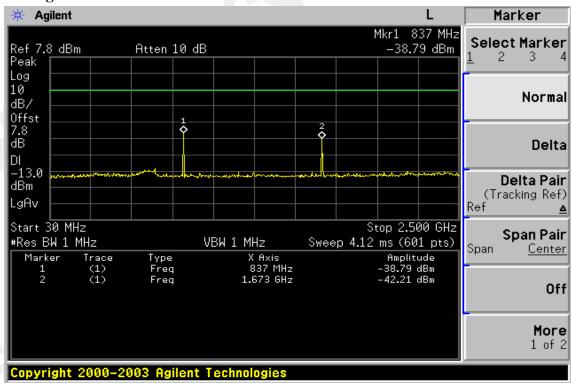
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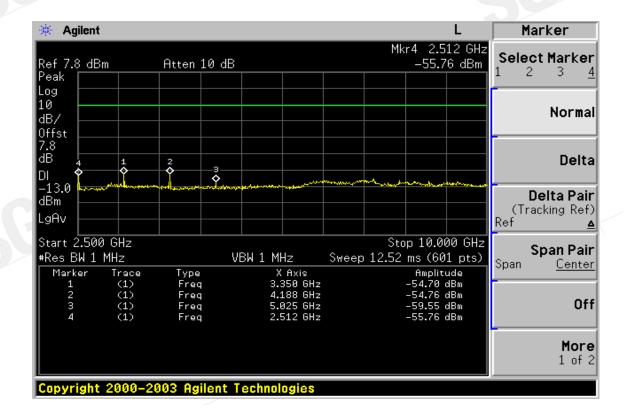


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Figure 8-2: Out of Band emission at antenna terminals -GSM Channel Mid





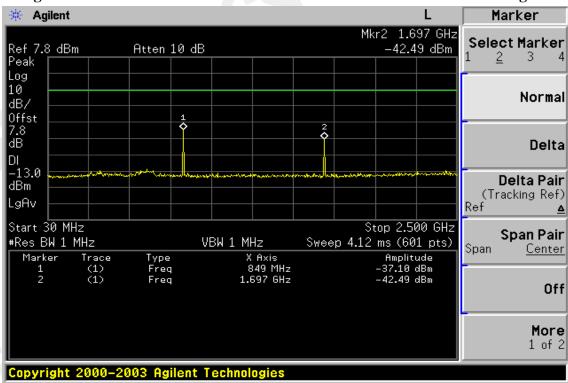
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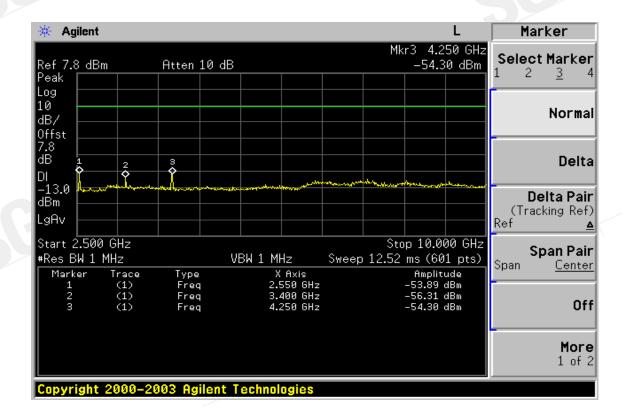


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Figure 8-3: Out of Band emission at antenna terminals-GSM Channel Highest





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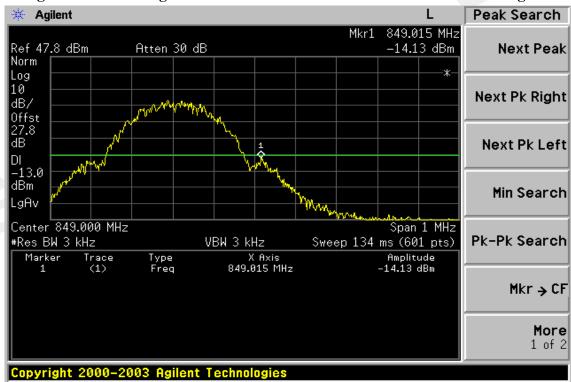
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Figure 8-4: Bad edge emission at antenna terminals – GSM Channel Lowest



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



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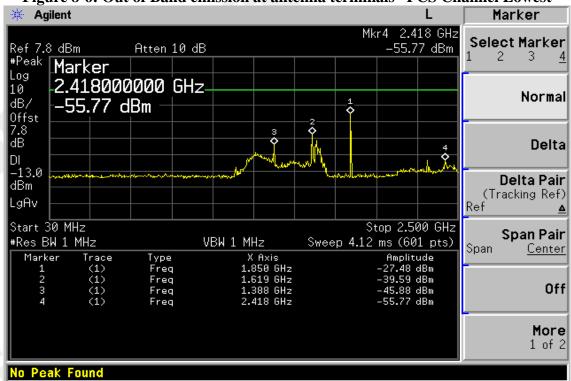
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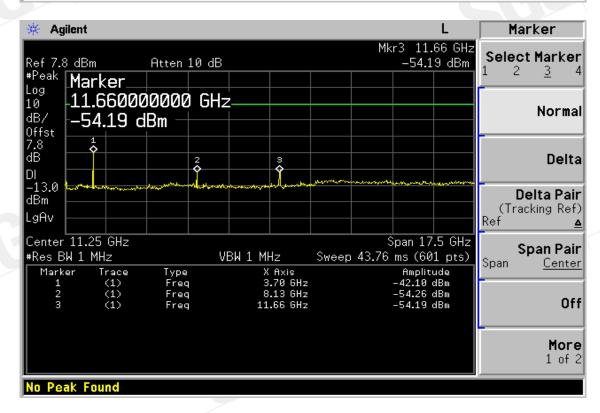


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Figure 8-6: Out of Band emission at antenna terminals- PCS Channel Lowest





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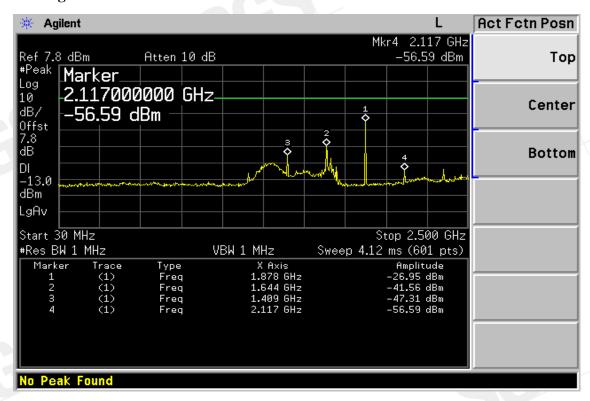
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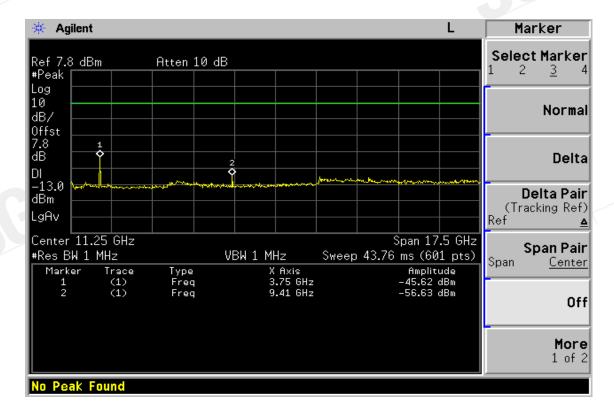


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Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid





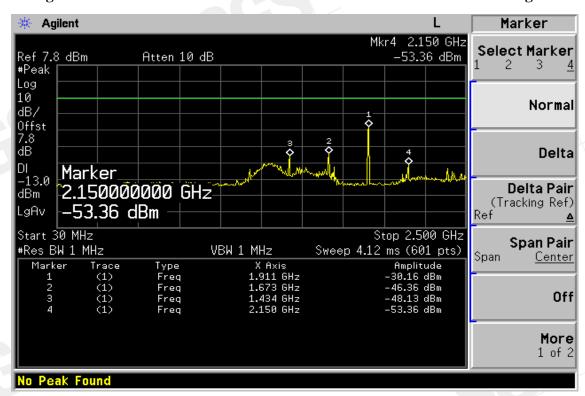
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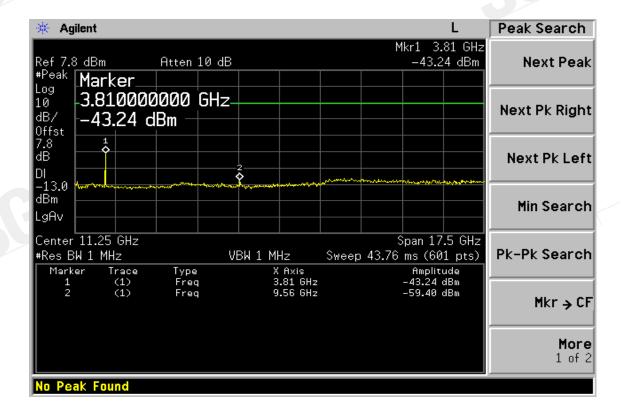


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Figure 8-8: Out of Band emission at antenna terminals-PCS Channel Highest





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

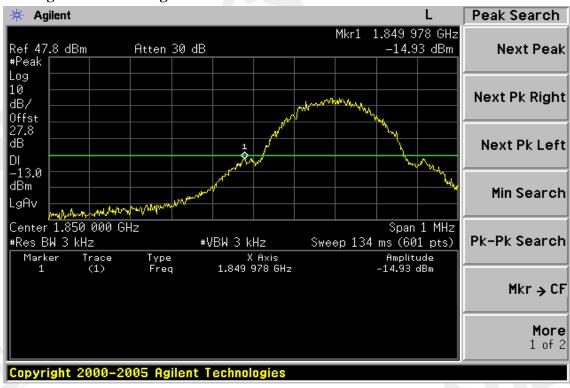


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

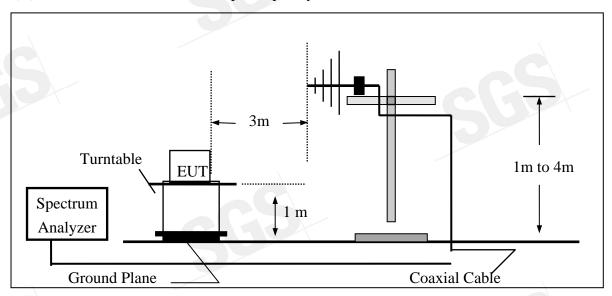
9.1. Standard Applicable

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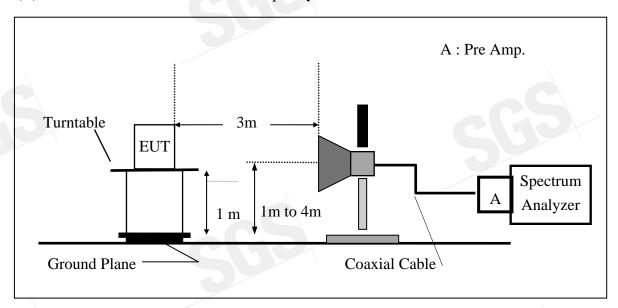
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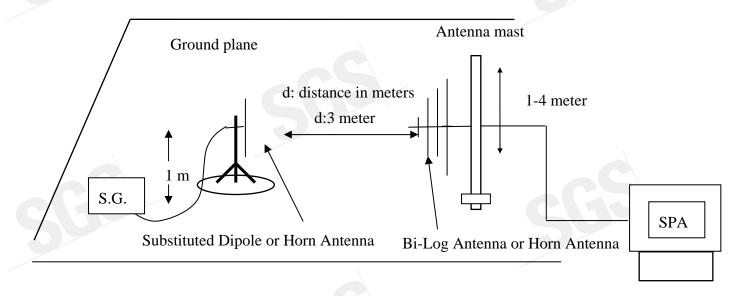
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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.

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. And Peak detector was used during this test.

ERP was 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 was 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:

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

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – 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	04/27/2007	04/26/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2007	08/26/2008
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	НР	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
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	10/07/2007	10/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/10/2006	06/09/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2006	06/09/2008
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: GSM 850 Mode

Operation Mode : TX CH Low E1 Mode Test Date: Dec. 04, 2007

Fundamental Frequency : 824.20 MHz Test By: Bondi Temperature : 25°C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	56.40	V	-45.77	-3.25	0.77	-49.79	-13.00	-36.79
58.13	43.24	V	-67.26	-0.49	0.94	-68.68	-13.00	-55.68
824.00	71.24	V	-16.09	-7.87	3.64	-27.61	-13.00	-14.61
1648.40		V		9.29	5.06		-13.00	
2472.60	44.56	V	-59.50	10.08	6.30	-55.73	-13.00	-42.73
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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low E1 Mode Test Date: Dec. 04, 2007

Fundamental Frequency : 824.20 MHz Test By: Bondi Temperature : 25°C Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
46.49	44.78	Н	-60.81	-1.32	0.86	-62.99	-13.00	-49.99
56.19	41.13	Н	-68.51	-0.51	0.93	-69.95	-13.00	-56.95
824.00	73.77	Н	-13.89	-7.87	3.64	-25.41	-13.00	-12.41
1648.40		Н		9.29	5.06		-13.00	
2472.60		Н		10.08	6.30		-13.00	
3296.80	46.00	Н	-56.36	12.17	7.26	-51.45	-13.00	-38.45
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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E1 Mode Test Date: Dec. 04, 2007

Fundamental Frequency : 836.60 MHz Test By: Bondi Temperature : 25° C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
43.58	49.86	V	-53.80	-1.92	0.83	-56.54	-13.00	-43.54
101.78	44.58	V	-58.90	-7.76	1.23	-67.89	-13.00	-54.89
1673.20		V		9.36	5.10		-13.00	
2509.80		V		10.09	6.35		-13.00	
3346.40	45.75	V	-56.81	12.28	7.29	-51.83	-13.00	-38.83
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 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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E1 Mode Test Date: Dec. 04, 2007

Fundamental Frequency: 836.60 MHz Test By: Bondi **Temperature** Pol: Hor : 25°C

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	45.57	Н	-58.23	-4.16	0.75	-63.13	-13.00	-50.13
101.78	34.51	Н	-68.53	-7.76	1.23	-77.51	-13.00	-64.51
1673.20		Н		9.36	5.10		-13.00	
2509.80		Н		10.09	6.35		-13.00	
3346.40	46.72	Н	-55.60	12.28	7.29	-50.62	-13.00	-37.62
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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E1 Mode Test Date: Dec. 04, 2007

Fundamental Frequency: 848.80 MHz Test By: Bondi Temperature Pol: Ver : 25°C

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)
46.49	62.19	V	-42.98	-1.32	0.86	-45.16	-13.00	-32.16
101.78	44.54	V	-58.94	-7.76	1.23	-67.93	-13.00	-54.93
850.00	72.74	V	-13.97	-7.88	3.75	-25.60	-13.00	-12.60
1697.60	45.58	V	-61.44	9.44	5.14	-57.15	-13.00	-44.15
2546.40		V		10.20	6.40		-13.00	
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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E1 Mode Test Date: Dec. 04, 2007

Fundamental Frequency: 848.80 MHz Test By: Bondi Temperature Pol: Hor : 25°C

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	52.16	Н	-51.03	-3.25	0.77	-55.05	-13.00	-42.05
101.78	39.20	Н	-63.84	-7.76	1.23	-72.82	-13.00	-59.82
850.00	73.13	Н	-13.86	-7.88	3.75	-25.49	-13.00	-12.49
1697.60	46.71	Н	-60.27	9.44	5.14	-55.98	-13.00	-42.98
2546.40		Н		10.20	6.40		-13.00	
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 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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low E1 Mode Test Date Dec. 04, 2007

Fundamental Frequency : 1850.20 MHz Test By: Bondi Temperature : 25°C Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	47.06	V	-55.11	-3.25	0.77	-59.13	-13.00	-46.13
58.13	41.30	V	-69.20	-0.49	0.94	-70.62	-13.00	-57.62
101.78	44.76	V	-58.72	-7.76	1.23	-67.71	-13.00	-54.71
1850.00	73.15	V	-33.81	9.90	5.41	-29.32	-13.00	-16.32
3700.40	48.50	V	-53.08	12.61	7.73	-48.20	-13.00	-35.20
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:
- $4 \text{ ERP/EIRP } (dBm) = SG \text{ Setting}(dBm) + Antenna Gain } (dB/dBi) Cable loss } (dB)$
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low E1 Mode Test Date Dec. 04, 2007

Fundamental Frequency : 1850.20 MHz Test By: Bondi Temperature : $25 ^{\circ}\text{C}$ Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	46.68	Н	-57.12	-4.16	0.75	-62.02	-13.00	-49.02
101.78	40.41	Н	-62.63	-7.76	1.23	-71.61	-13.00	-58.61
1850.00	81.90	Н	-24.99	9.90	5.41	-20.50	-13.00	-7.50
3700.40	52.11	Н	-49.25	12.61	7.73	-44.37	-13.00	-31.37
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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid E1 Mode Test Date Dec. 04, 2007

Fundamental Frequency : 1880 MHz Test By Bondi Temperature : 25°C Pol Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
38.73	46.76	V	-55.41	-3.25	0.77	-59.43	-13.00	-46.43
101.78	46.32	V	-57.16	-7.76	1.23	-66.15	-13.00	-53.15
143.49	33.10	V	-65.30	-7.79	1.43	-74.53	-13.00	-61.53
3760.00	53.55	V	-47.75	12.60	7.82	-42.97	-13.00	-29.97
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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Mid E1 Mode Test Date Dec. 04, 2007

Fundamental Frequency : 1880 MHz Test By Bondi Temperature : 25°C Pol Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
53.28	46.87	Н	-61.57	-0.55	0.92	-63.04	-13.00	-50.04
101.78	41.86	Н	-61.18	-7.76	1.23	-70.16	-13.00	-57.16
3760.00	54.14	Н	-46.97	12.60	7.82	-42.18	-13.00	-29.18
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	

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)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH High E1 Mode Operation Mode Test Date Dec. 04, 2007

Fundamental Frequency: 1909.8 MHz Test By Bondi Pol Ver Temperature : 25°C

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	46.98	V	-55.19	-3.25	0.77	-59.21	-13.00	-46.21
101.78	46.30	V	-57.18	-7.76	1.23	-66.17	-13.00	-53.17
138.64	33.60	V	-65.39	-7.79	1.41	-74.59	-13.00	-61.59
1910.00	76.58	V	-30.36	10.08	5.51	-25.79	-13.00	-12.79
3981.60	55.97	V	-44.31	12.60	8.17	-39.89	-13.00	-26.89
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 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)
- 5 Peak detector was used during test.

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High E1 Mode Test Date Dec. 04, 2007

Fundamental Frequency : 1909.8 MHz Test By Bondi Temperature : 25° C Pol Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	47.41	Н	-56.39	-4.16	0.75	-61.29	-13.00	-48.29
101.78	41.67	Н	-61.37	-7.76	1.23	-70.35	-13.00	-57.35
1910.00	71.85	Н	-35.00	10.08	5.51	-30.44	-13.00	-17.44
3981.60	52.36	Н	-47.82	12.60	8.17	-43.39	-13.00	-30.39
5972.40		Н		13.86	9.91		-13.00	
7963.20		Н		11.27	11.88		-13.00	
9954.00		H		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 ERP/EIRP (dBm) = SG Setting(dBm) + Antenna Gain (dB/dBi) Cable loss (dB)
- 5 Peak detector was used during test.

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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1. Standard Applicable

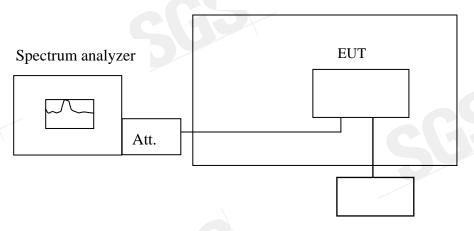
According to FCC §2.1055(a)(1)(b).

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

+/-0.04 ppm 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.

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10.4. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	MODEL SERIAL		CAL DUE.			
ТҮРЕ		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008			
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/27/2008			
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/27/2008			
Power Meter	er Meter Anritsu		6K00002070	06/28/2007	06/27/2008			
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008			
Low Loss Cable	Low Loss Cable HUBER+SUHNER		N/A	N/A	N/A			
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008			
Attenuator	Attenuator Mini-Circult		BW-S6W5 N/A		10/06/2008			
Splitter	Splitter Mini-Circult		ZFSC-2-10G N/A		10/06/2008			
Signal Generator	Signal Generator R&S		SMR40 100210		11/10/2008			
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008			

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10.5. Measurement Result

Re	Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C						
	Limit:	+/- 0.1 ppm = 836	6.6 Hz				
Power Supply	Environment	Frequency					
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)			
3.7	-30	836.599966	28.00	836.6 Hz			
3.7	-20	836.599987	7.00	836.6 Hz			
3.7	-10	836.599989	5.00	836.6 Hz			
3.7	0	836.599997	-3.00	836.6 Hz			
3.7	10	836.599996	-2.00	836.6 Hz			
3.7	20	836.599994	0.00	836.6 Hz			
3.7	30	836.599989	5.00	836.6 Hz			
3.7	40	836.599986	8.00	836.6 Hz			
3.7	50	836.599991	3.00	836.6 Hz			

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C								
	Limit: +/- 0.04 ppm = 75.2 Hz							
Power Supply	Environment	Environment Frequency						
Vdc	Temperature (°C)	(MHz)	Delta (Hz)	Limit (Hz)				
3.7	-30	1879.999932	33.00	75.2 Hz				
3.7	-20	1879.999964	1.00	75.2 Hz				
3.7	-10	1879.999988	-23.00	75.2 Hz				
3.7	0	1879.999971	-6.00	75.2 Hz				
3.7	10	1879.999981	-16.00	75.2 Hz				
3.7	20	1879.999965	0.00	75.2 Hz				
3.7	30	1879.999957	8.00	75.2 Hz				
3.7	40	1879.999948	17.00	75.2 Hz				
3.7	50	1879.999934	31.00	75.2 Hz				

Note: The battery is rated 3.7V dc.

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11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1. Standard Applicable

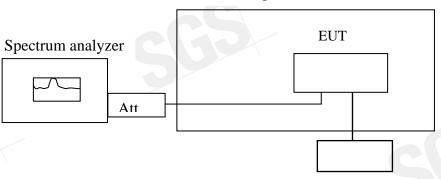
According to FCC §2.1055(d)(1)(2)

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

+/-0.04ppm for 1900MHz band

11.2. Test Set-up:

Temperature Chamber



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.

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11.4. Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2007	04/26/2008		
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/27/2008		
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/27/2008		
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/27/2008		
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008		
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A		
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2007	10/06/2008		
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2007	10/06/2008		
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2007	10/06/2008		
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008		
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008		

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11.5. Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C							
	Limit: +/- 0.1 ppm = 836.6 Hz						
Power Supply Environment Frequency Delta (Hz) Limit (Hz)							
Vdc	Temperature (°C)	rature (°C) (MHz)		Limit (Hz)			
4.26	25.00	836.599983	0.00	836.6 Hz			
3.70	25.00	836.599996	-13.00	836.6 Hz			
3.24	25.00	926 500091	2.00	926 6 11-			
(End Point)	25.00	836.599981	2.00	836.6 Hz			

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C						
	Limit	: +/- 0.04 ppm = 75	5.2 Hz	\		
Power Supply Environment Frequency						
Vdc	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Limit (Hz)		
4.255	25	1879.999969	0.00	75.2 Hz		
3.7	25	1879.999963	6.00	75.2 Hz		
3.24		1050 0000	0.00	77.011		
(Endpoint)	25	1879.99996	9.00	75.2 Hz		

Note: The battery is rated 3.7V dc.

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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			
dB(uV)			
Quasi-peak	Average		
66 to 56	56 to 46		
56	46		
60	50		
	Quasi-peak 66 to 56 56		

Note

12.2. EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
- 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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^{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:

Conducted Emission Test Site							
EQUIPMENT	MFR	MODEL	MODEL SERIAL		CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
EMC Analyzer	НР	8594EM	3624A00203	09/02/2007	09/03/2008		
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/08/2008		
Transient Limiter	HP	11947A 3107A02062		09/02/2007	09/03/2008		
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007		
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007		
LISN	LISN FCC		04034	01/24/2007	01/23/2008		
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2006	12/23/2007		

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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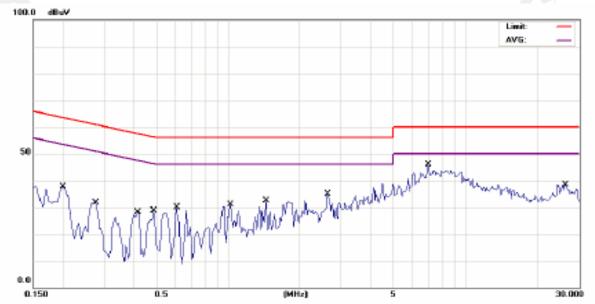


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK			Test Date:	Dec. 03, 2007
Temperature:	25 ℃	Humidity:	62%	Test By:	Bondi
Adaptor:	S002EU0450030)			



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: mobile phone M/N: Bubble US

Note: GSM 850 LINK // CHARGER

i ilase.	E1		
Power:	AC 120V/50Hz	Humidity:	59 %
Distance:		Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2000	37.72	0.02	37.74	63.61	-25.87	QP	
2	0.2750	31.54	0.02	31.56	60.97	-29.41	QP	
3	0.4150	28.14	0.02	28.16	57.55	-29.39	QP	
4	0.4850	28.54	0.02	28.56	56.25	-27.69	QP	
5	0.6050	29.85	0.02	29.87	56.00	-26.13	QP	
6	1.0250	30.91	0.01	30.92	56.00	-25.08	QP	
7	1.4450	32.24	0.02	32.26	56.00	-23.74	QP	
8	2.6450	34.74	0.05	34.79	56.00	-21.21	QP	
9 ×	6.9200	45.71	0.16	45.87	60.00	-14.13	QP	
10	26.3000	38.08	0.42	38.50	60.00	-21.50	QP	

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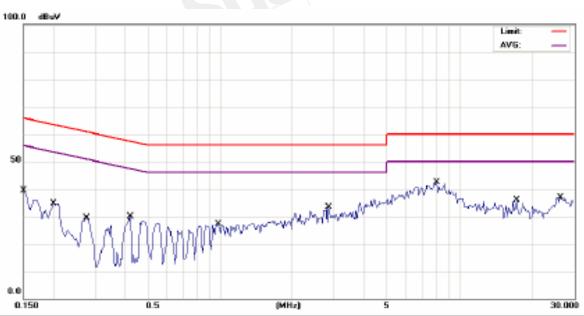
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Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: mobile phone M/N: Bubble US

Note: GSM 850 LINK // CHARGER

Phase:	N	i emperature:	25 C
Power:	AC 120V/50Hz	Humidity:	59 %
Distance:		Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	39.31	0.00	39.31	66.00	-26.69	QP	
2	0.2000	34.57	0.02	34.59	63.61	-29.02	QP	
3	0.2750	29.30	0.02	29.32	60.97	-31.65	QP	
4	0.4200	29.85	0.02	29.87	57.45	-27.58	QP	
5	0.9800	27.13	0.01	27.14	56.00	-28.86	QP	
6	2.8400	33.24	0.05	33.29	56.00	-22.71	QP	
7 *	7.9800	42.13	0.19	42.32	60.00	-17.68	QP	
8	17.3400	35.64	0.31	35.95	60.00	-24.05	QP	
9	26.3400	36.48	0.42	36.90	60.00	-23.10	QP	

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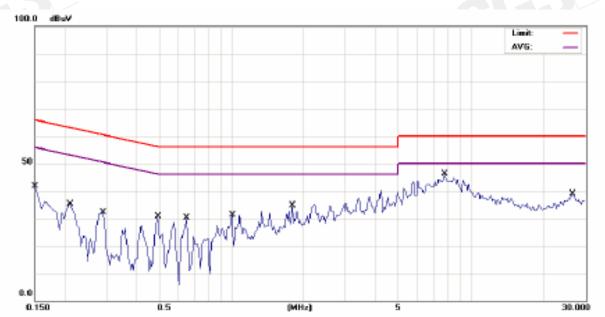


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK		Test Date:	Dec. 03, 2007	
Temperature:	25 ℃	Humidity:	62%	Test By:	Bondi
Adaptor:	S002EU0450030)			



Phase

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: mobile phone M/N: Bubble US

Note: GSM 1900 LINK // CHARGER

		-	
Power:	AC 120V/50Hz	Humidity:	59 %
Distance:		Air Pressure:	hpa

emperature:

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	40.50	1.18	41.68	66.00	-24.32	QP	
2		0.2100	35.18	0.02	35.20	63.21	-28.01	QP	
3		0.2900	32.18	0.02	32.20	60.52	-28.32	QP	
4		0.4900	30.50	0.02	30.52	56.17	-25.65	QP	
5		0.6500	29.99	0.02	30.01	56.00	-25.99	QP	
6		1.0100	31.15	0.01	31.16	56.00	-24.84	QP	
7		1.8050	34.72	0.03	34.75	56.00	-21.25	QP	
8	*	7.7400	46.01	0.18	46.19	60.00	-13.81	QP	
9		26.6000	38.45	0.42	38.87	60.00	-21.13	QP	

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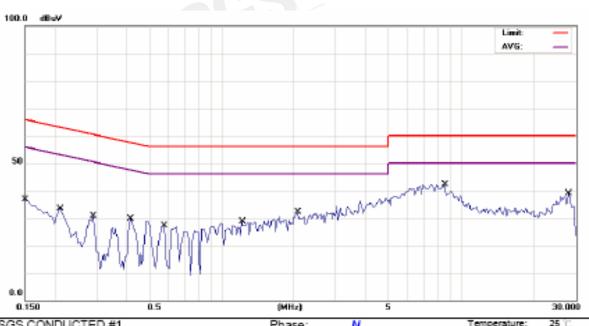
Report No.: ER/2007/B0059 **Issue Date: Dec. 11, 2007**

Temperature:

hpa

Humidity: Air Pressure:

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Phase:

Power:

Distance:

Ν

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: mobile phone

M/N: Bubble US

Note: GSM 1900 LINK // CHARGER

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	36.55	0.00	36.55	66.00	-29.45	QP	
2	0.2100	33.47	0.02	33.49	63.21	-29.72	QP	
3	0.2900	30.54	0.02	30.56	60.52	-29.96	QP	
4	0.4150	29.51	0.02	29.53	57.55	-28.02	QP	
5	0.5750	27.17	0.02	27.19	56.00	-28.81	QP	
6	1.2200	28.55	0.02	28.57	56.00	-27.43	QP	
7	2.0900	31.99	0.04	32.03	56.00	-23.97	QP	
8 *	8.5200	41.90	0.20	42.10	60.00	-17.90	QP	
9	28.2800	38.32	0.44	38.76	60.00	-21.24	QP	

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APPENDIX 1 PHOTOGRAPHS OF SET UP

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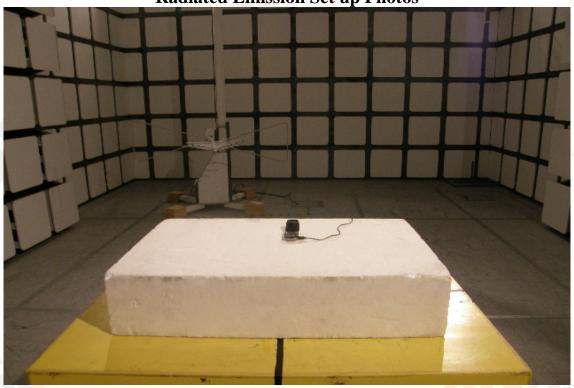
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Radiated Emission Set up Photos



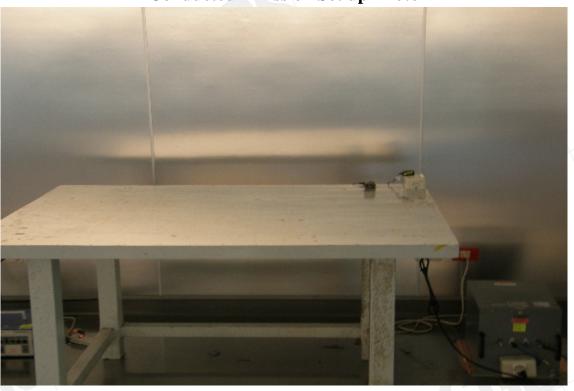
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Conducted Emission Set up Photo





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APPENDIX 2 PHOTOGRAPHS OF EUT

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All View of EUT



Adaptor



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Battery



Front View of EUT



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Back View of EUT



Side View of EUT



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Side View of EUT



Side View of EUT



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Inside View of EUT



Open View of EUT - 1



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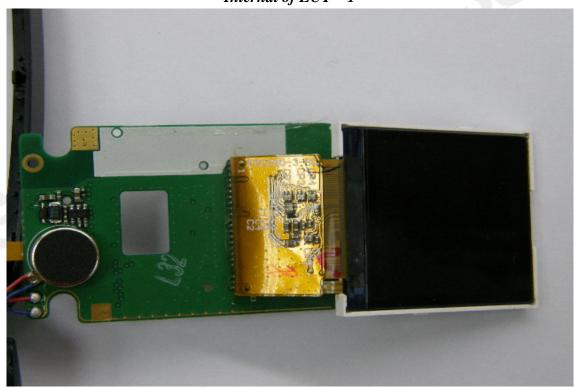
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Open View of EUT - 2



Internal of EUT – 1



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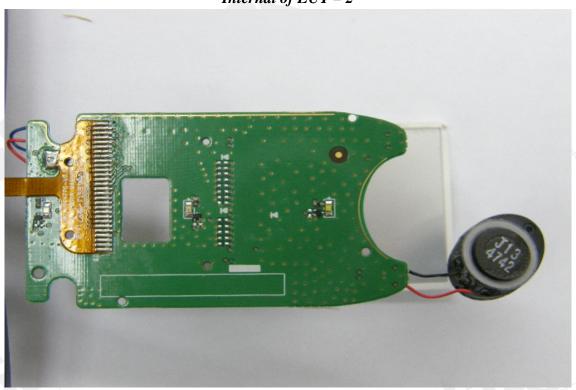
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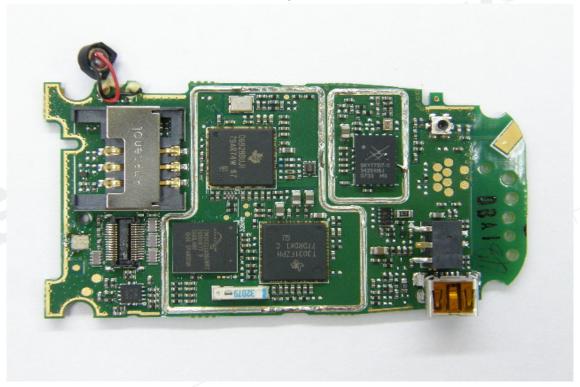
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Internal of EUT – 2



Internal of EUT – 3



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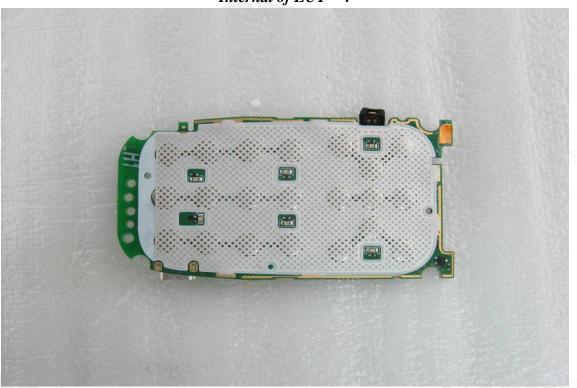
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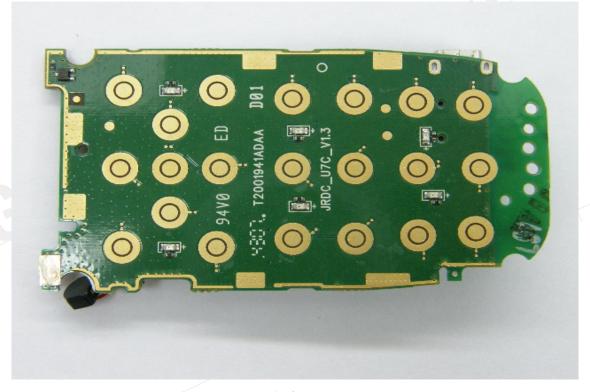
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Internal of EUT - 4



Internal of EUT - 5



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