

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: GSM 850/1900 mobile phone

Brand Name: Sagem

Model Name: A2005sa

Market Name: my100B or my100L

FCC ID: M9HA5SE1

Report No.: ER/2005/C0012

Issue Date: Feb. 13, 2006

FCC Rule Part: 2 & 22H & 24E

Prepared for SAGEM Communication
2,rue du Petit Albi BP28250
95801 CERGY PONTOISE Cedex

Prepared by SGS Taiwan Ltd.

No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: SAGEM Communication
2,rue du Petit Albi BP28250 95801 CERGY PONTOISE Cedex

Equipment Under Test: GSM 850/1900 mobile phone

FCC ID Number: M9HA5SE1

Brand Name: Sagem

Model No.: A2005sa

Market Name: my100B or my100L

Model Difference: N/A

File Number: ER/2005/C0012

Date of test: Dec. 15, 2005 ~ Dec. 26, 2005

Date of EUT Received: Dec. 15, 2005

We hereby certify that:

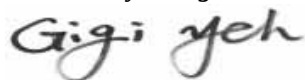
The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-1-1998 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H and FCC PART 24 subpart E.

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

Test By:**Date**

Feb. 13, 2006

Sky Wang

Prepared By:**Date**

Feb. 13, 2006

Gigi Yeh

Approved By**Date**

Feb. 13, 2006

Vincent Su

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Version

Version No.	Date
00	Dec. 27, 2005
01	Feb. 13, 2006

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1. GENERAL INFORMATION

1.1 Product Description

Product	GSM 850/1900 mobile phone	
Model Name	A2005sa	
Market Name	my100B or my100L	
Model Difference:	N/A	
Trade Name	Sagem	
Frequency Range and Power	TX: 824.2 MHz – 848.8 MHz	33 dBm
	TX: 1850.2MHz –1909.8MHz	30 dBm
Type of Emission	300KGXW	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Model:	Five 5V DC by AC/DC Adapters, Input :100-240Vac, 0.3A, 50/60Hz, Output: 5Vdc, 0.4A 1.SAGEM, powersupply1 with 18 867 925-5; 2.SAGEM, powersupply2 with 18 865 855-8; 3.SAGEM, powersupply3 with 18 865 853-7; 4.SAGEM, powersupply4 with 18 864 404-6; 5.SAGEM, powersupply5 with 18 869 2000; One Car Charger Input :12-24Vdc, 0.4A, Output: 6.5Vdc, 0.5A 1.SAGEM, cigar light adapter with 18 871 842-4

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **M9HA5SE1** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

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1.3 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.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 1993 and CISPR 22/EN 55022 requirements. Site No. 1(3 & 10 meters) Registration Number: 94644, Anechoic chamber (3 meters) was accredited by CNLA(0513) and NVLAP (200704-0).

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

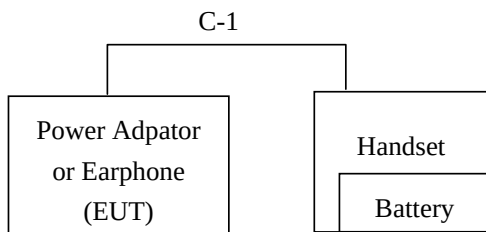


Fig. 2-2 Configuration of Tested System

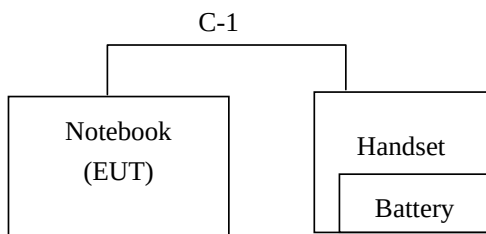


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1..	Notebook	TOSHIBA	PSA10L-3V1JDP	N/A	1.2m, shielding	1.8m,un-shielding

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§ 2.1046(a) § 22.913(a) § 24.232(a)	RF Power Output	Compliant
§ 2.1046(a) § 22.913(a) § 24.232(a)	ERP/ EIRP measurement	Compliant
§ 2.1049(h)	99% Occupied Bandwidth	Compliant
§ 2.1051 § 22.917(a) § 24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§ 2.1053 § 22.917(a) § 24.238(a)	Field Strength of Spurious Radiation	Compliant
§ 2.1055(a)(1)(b) § 24.235	Frequency Stability vs. Temperature	Compliant
§ 2.1055(d)(1)(2) § 24.235	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 and band with rated data rate are 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 and Data cable. The worst-case E2 mode for GSM 850 band and H mode for GSM 1900 band with earphone mode for channel Low, Mid and High at GSM mode was reported.

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5. RF POWER OUTPUT MEASUREMENT

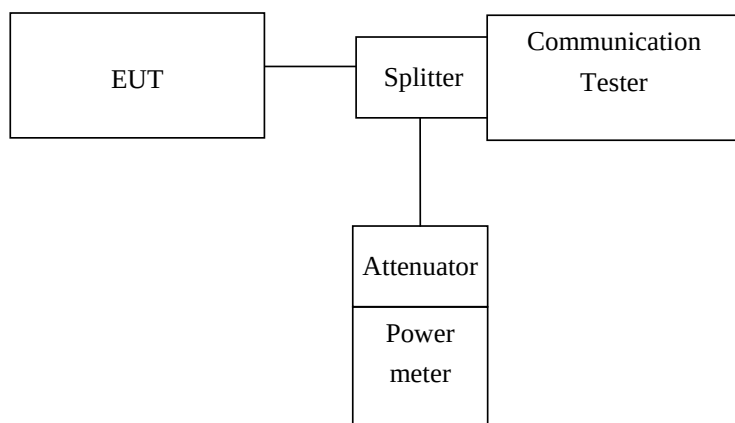
5.1 Standard Applicable

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 TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2005	09/22/2006
Splitter	Agilent	11636B	51728	09/23/2005	09/22/2006
AC Power Supply	APW-105N	887592	All Power	N/A	N/A

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5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	5.35	27.4	32.75
	836.60	190	5.50	27.4	32.90
	848.80	251	5.58	27.4	32.98

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	3.22	27.20	30.42
	1880.00	661	3.38	27.20	30.58
	1909.80	810	3.38	27.20	30.58

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

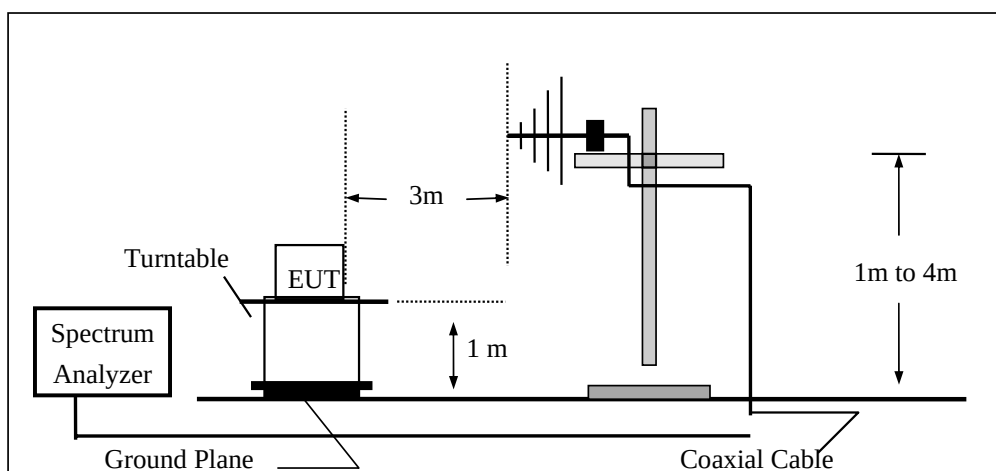
According to FCC §2.1046

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

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

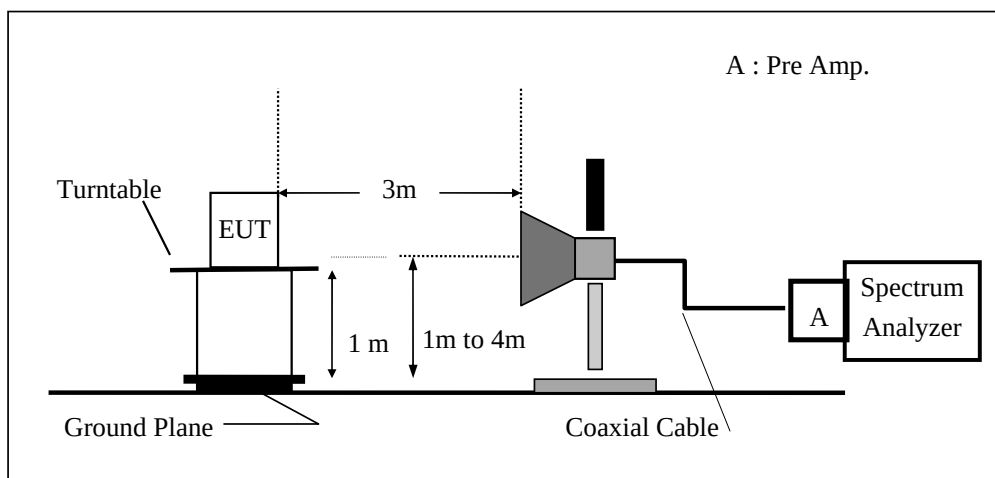
6.2 Test SET-UP (Block Diagram of Configuration)

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

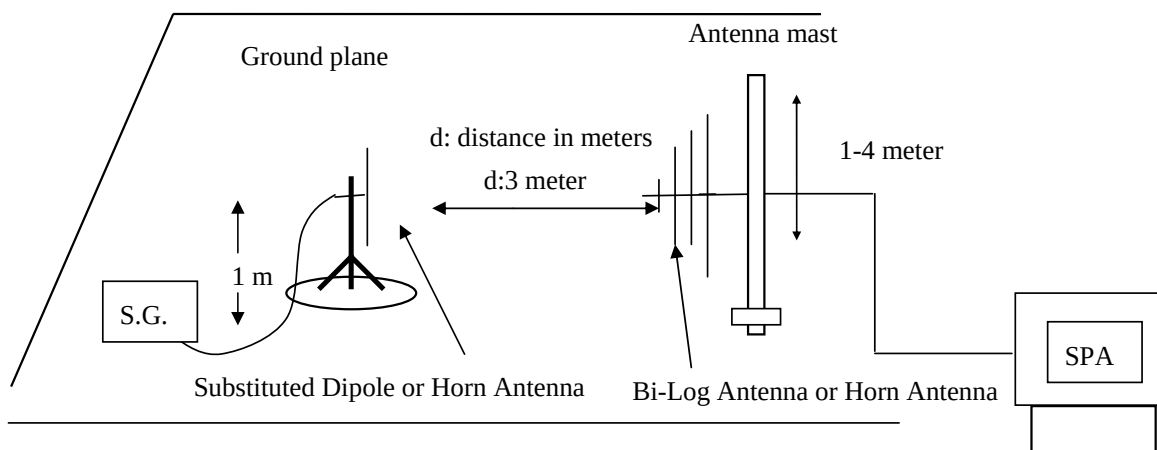


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

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

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

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

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

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

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

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6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2005	06/02/2006
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2005	08/15/2006
Pre-Amplifier	HP	8447D	2944A09469	07/19/2005	07/18/2006
Pre-Amplifier	HP	8494B	3008A00578	02/26/2005	02/25/2006
Signal Generator	R&S	SMR40	100210	02/09/2005	02/10/2006
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	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2005	09/22/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2004	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2004	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2004	08/15/2006

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6.5 Measurement Result

Test Configuration Mode: Earphone:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.00	128	H	V	127.34	40.02	-7.87	3.64	28.50	38.45
				H	130.32	42.66	-7.87	3.64	31.14	38.45
			E1	V	127.68	40.35	-7.87	3.64	28.84	38.45
				H	125.93	38.27	-7.87	3.64	26.75	38.45
			E2	V	123.61	36.29	-7.87	3.64	24.77	38.45
				H	130.87	43.21	-7.87	3.64	31.69	38.45
	836.50	190	H	V	126.31	39.28	-7.88	3.70	27.71	38.45
				H	130.13	42.79	-7.88	3.70	31.22	38.45
			E1	V	127.32	40.29	-7.88	3.70	28.72	38.45
				H	125.83	38.49	-7.88	3.70	26.92	38.45
			E2	V	121.25	34.22	-7.88	3.70	22.65	38.45
				H	130.46	43.13	-7.88	3.70	31.55	38.45
	848.80	251	H	V	126.36	39.62	-7.88	3.75	27.99	38.45
				H	130.02	43.00	-7.88	3.75	31.37	38.45
			E1	V	127.99	41.25	-7.88	3.75	29.62	38.45
				H	123.84	36.82	-7.88	3.75	25.19	38.45
			E2	V	123.23	36.49	-7.88	3.75	24.86	38.45
				H	129.53	42.51	-7.88	3.75	30.88	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Test Configuration Mode: Earphone:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	127.91	20.95	9.90	5.41	25.44	33.00
				H	131.19	24.30	9.90	5.41	28.79	33.00
			E1	V	129.72	22.76	9.90	5.41	27.25	33.00
				H	130.64	23.75	9.90	5.41	28.24	33.00
			E2	V	130.22	23.26	9.90	5.41	27.75	33.00
				H	129.86	22.97	9.90	5.84	27.03	33.00
	1880.00	661	H	V	125.88	18.93	9.99	5.46	23.46	33.00
				H	130.11	23.24	9.99	5.46	27.77	33.00
			E1	V	129.19	22.24	9.99	5.46	26.77	33.00
				H	130.10	23.23	9.99	5.46	27.76	33.00
			E2	V	128.55	21.60	9.99	5.46	26.13	33.00
				H	128.29	21.42	9.99	5.46	25.95	33.00
	1909.80	810	H	V	125.31	18.37	10.08	5.51	22.94	33.00
				H	129.31	22.46	10.08	5.51	27.02	33.00
			E1	V	129.19	22.25	10.08	5.51	26.82	33.00
				H	129.66	22.81	10.08	5.51	27.37	33.00
			E2	V	127.97	21.03	10.08	5.51	25.60	33.00
				H	128.42	21.57	10.08	5.51	26.13	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

格式化: 項目符號及編號

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Test Configuration Mode: Power adaptor

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.00	128	H	V	126.72	39.40	-7.87	3.64	27.88	38.45
				H	125.95	38.29	-7.87	3.64	26.77	38.45
			E1	V	129.54	42.21	-7.87	3.64	30.70	38.45
				H	130.66	43.00	-7.87	3.64	31.48	38.45
			E2	V	125.64	38.32	-7.87	3.64	26.80	38.45
				H	131.20	43.54	-7.87	3.64	32.02	38.45
	836.50	190	H	V	124.59	37.56	-7.88	3.70	25.99	38.45
				H	126.20	38.86	-7.88	3.70	27.29	38.45
			E1	V	128.07	41.04	-7.88	3.70	29.47	38.45
				H	130.29	42.95	-7.88	3.70	31.38	38.45
			E2	V	125.19	38.16	-7.88	3.70	26.59	38.45
				H	130.68	43.35	-7.88	3.70	31.77	38.45
	848.80	251	H	V	124.29	37.55	-7.88	3.75	25.92	38.45
				H	125.69	38.67	-7.88	3.75	27.04	38.45
			E1	V	127.36	40.62	-7.88	3.75	28.99	38.45
				H	128.77	41.75	-7.88	3.75	30.12	38.45
			E2	V	122.46	35.72	-7.88	3.75	24.09	38.45
				H	129.05	42.03	-7.88	3.75	30.40	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Test Configuration Mode: Power adaptor

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	124.81	17.85	9.90	5.41	22.34	33.00
				H	131.00	24.11	9.90	5.41	28.60	33.00
			E1	V	127.87	20.91	9.90	5.41	25.40	33.00
				H	130.77	23.88	9.90	5.41	28.37	33.00
			E2	V	130.49	23.53	9.90	5.41	28.02	33.00
				H	129.21	22.32	9.90	5.84	26.38	33.00
	1880.00	661	H	V	124.23	17.28	9.99	5.46	21.81	33.00
				H	131.01	24.14	9.99	5.46	28.67	33.00
			E1	V	127.87	20.92	9.99	5.46	25.45	33.00
				H	130.57	23.70	9.99	5.46	28.23	33.00
			E2	V	130.05	23.10	9.99	5.46	27.63	33.00
				H	128.01	21.14	9.99	5.46	25.67	33.00
	1909.80	810	H	V	124.32	17.38	10.08	5.51	21.95	33.00
				H	130.15	23.30	10.08	5.51	27.86	33.00
			E1	V	126.60	19.66	10.08	5.51	24.23	33.00
				H	121.14	14.29	10.08	5.51	18.85	33.00
			E2	V	129.49	22.55	10.08	5.51	27.12	33.00
				H	127.70	20.85	10.08	5.51	25.41	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Test Configuration Mode: Data Cable

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.00	128	H	V	124.32	37.00	-7.87	3.64	25.48	38.45
				H	129.39	41.73	-7.87	3.64	30.21	38.45
			E1	V	129.31	41.98	-7.87	3.64	30.47	38.45
				H	122.65	34.99	-7.87	3.64	23.47	38.45
			E2	V	124.60	37.28	-7.87	3.64	25.76	38.45
				H	131.73	44.07	-7.87	3.64	32.55	38.45
	836.50	190	H	V	124.20	37.17	-7.88	3.70	25.60	38.45
				H	130.41	43.07	-7.88	3.70	31.50	38.45
			E1	V	128.34	41.31	-7.88	3.70	29.74	38.45
				H	121.85	34.51	-7.88	3.70	22.94	38.45
			E2	V	123.26	36.23	-7.88	3.70	24.66	38.45
				H	131.14	43.81	-7.88	3.70	32.23	38.45
	848.80	251	H	V	121.65	34.91	-7.88	3.75	23.28	38.45
				H	128.69	41.67	-7.88	3.75	30.04	38.45
			E1	V	127.56	40.82	-7.88	3.75	29.19	38.45
				H	122.64	35.62	-7.88	3.75	23.99	38.45
			E2	V	122.29	35.55	-7.88	3.75	23.92	38.45
				H	131.10	44.08	-7.88	3.75	32.45	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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Test Configuration Mode: Data Cable

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	125.75	18.79	9.90	5.41	23.28	33.00
				H	130.70	23.81	9.90	5.41	28.30	33.00
			E1	V	129.85	22.89	9.90	5.41	27.38	33.00
				H	128.36	21.47	9.90	5.41	25.96	33.00
			E2	V	128.94	21.98	9.90	5.41	26.47	33.00
				H	127.42	20.53	9.90	5.84	24.59	33.00
	1880.00	661	H	V	124.22	17.27	9.99	5.46	21.80	33.00
				H	128.51	21.64	9.99	5.46	26.17	33.00
			E1	V	128.93	21.98	9.99	5.46	26.51	33.00
				H	127.93	21.06	9.99	5.46	25.59	33.00
			E2	V	127.73	20.78	9.99	5.46	25.31	33.00
				H	126.11	19.24	9.99	5.46	23.77	33.00
	1909.80	810	H	V	122.85	15.91	10.08	5.51	20.48	33.00
				H	128.19	21.34	10.08	5.51	25.90	33.00
			E1	V	128.16	21.22	10.08	5.51	25.79	33.00
				H	126.65	19.80	10.08	5.51	24.36	33.00
			E2	V	126.86	19.92	10.08	5.51	24.49	33.00
				H	125.30	18.45	10.08	5.51	23.01	33.00

Remark :

- The RBW,VBW of SPA for frequency
Below 1GHz was RBW=100 KHz, VBW=300KHz,
Above 1GHz was RBW= 1MHz , VBW= 3MHz

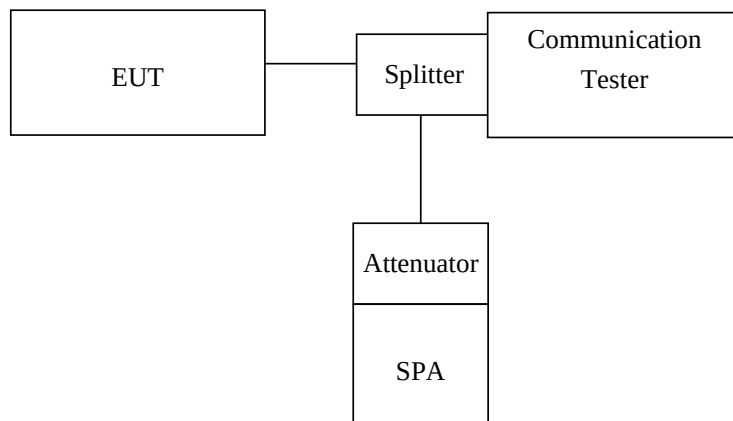
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

7. OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 Measurement Procedure

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

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7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2005	09/22/2006
Splitter	Agilent	11636B	51728	09/23/2005	09/22/2006
AC Power Supply	APW-105N	887592	All Power	N/A	N/A

7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99%Bandwidth (MHz)
GSM 850	824.20	128	0.2494
	836.60	190	0.2499
	848.80	251	0.2493

EUT Mode	Frequency (MHz)	CH	99%Bandwidth (MHz)
PCS 1900	1850.20	512	0.2502
	1880.00	661	0.2530
	1909.80	810	0.2508

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Figure 7-1: GSM Channel Low

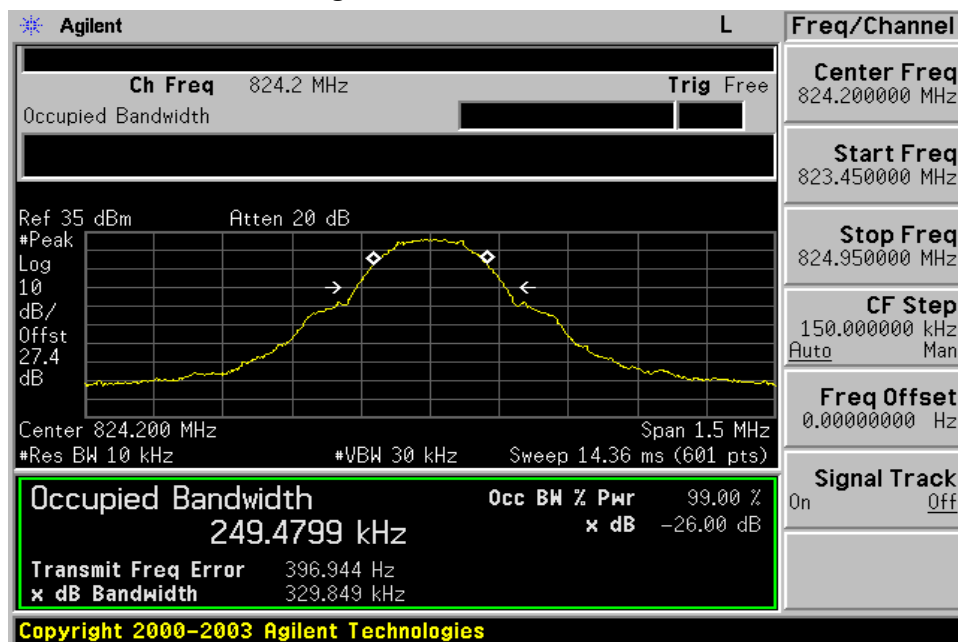
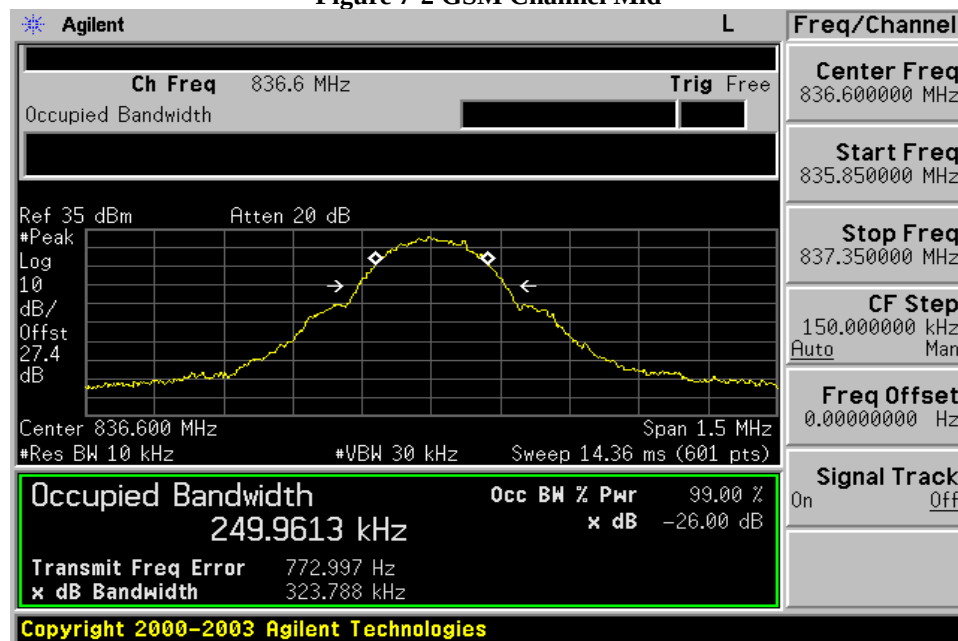
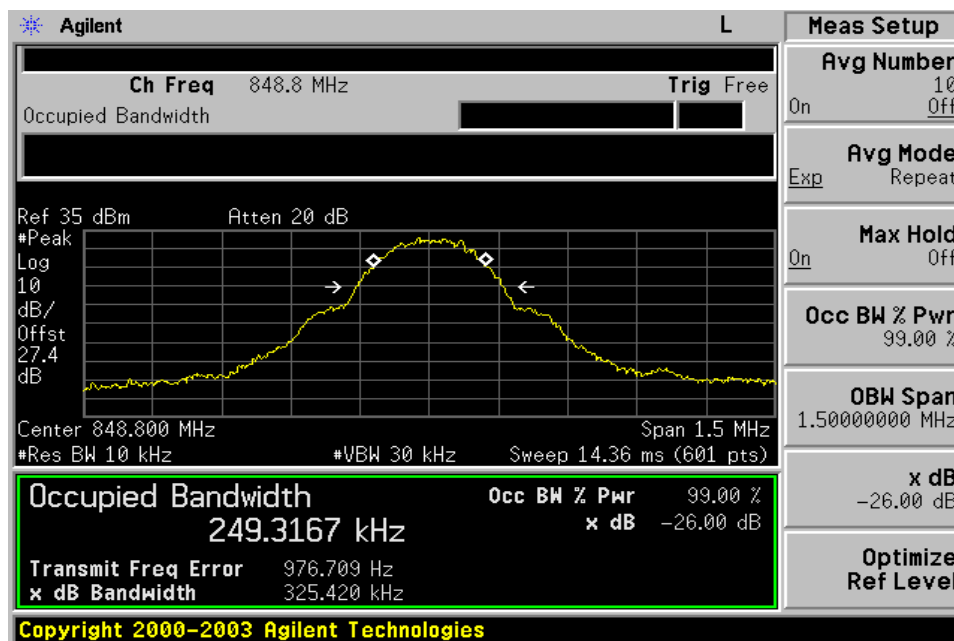


Figure 7-2 GSM Channel Mid



The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Figure 7-3: GSM Channel High



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Figure 7-4: PCS Channel Low

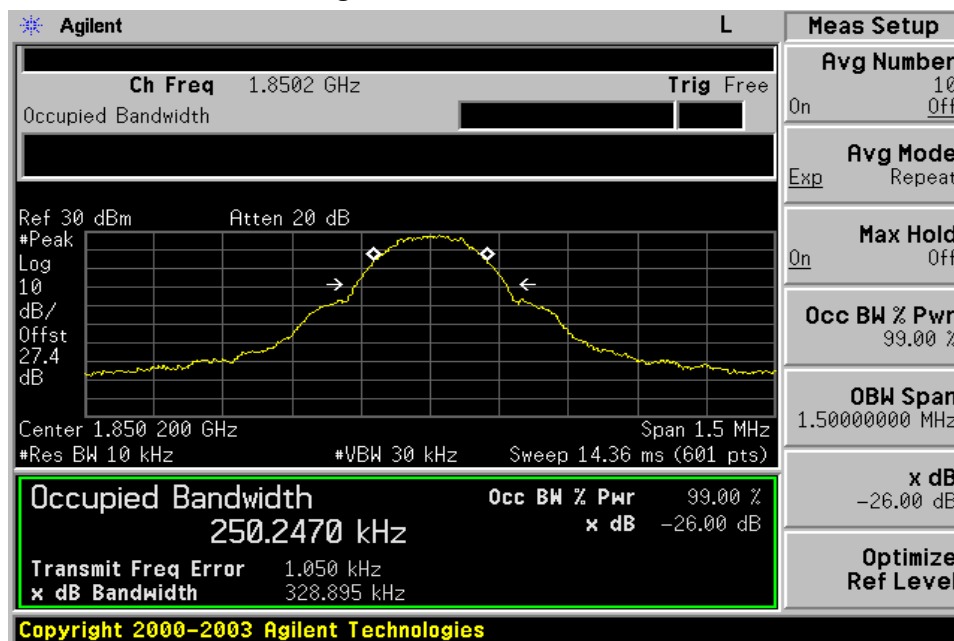
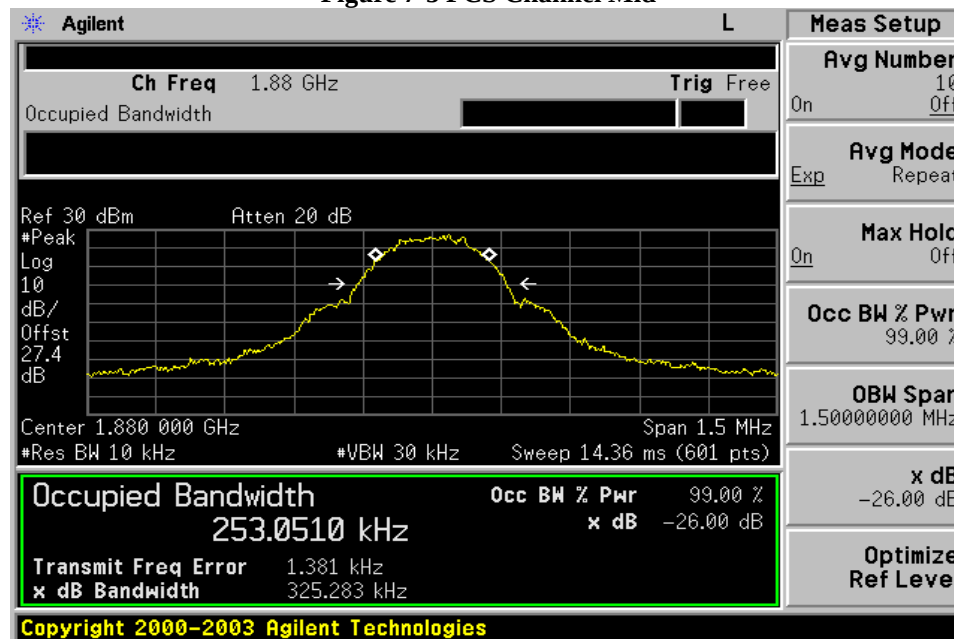
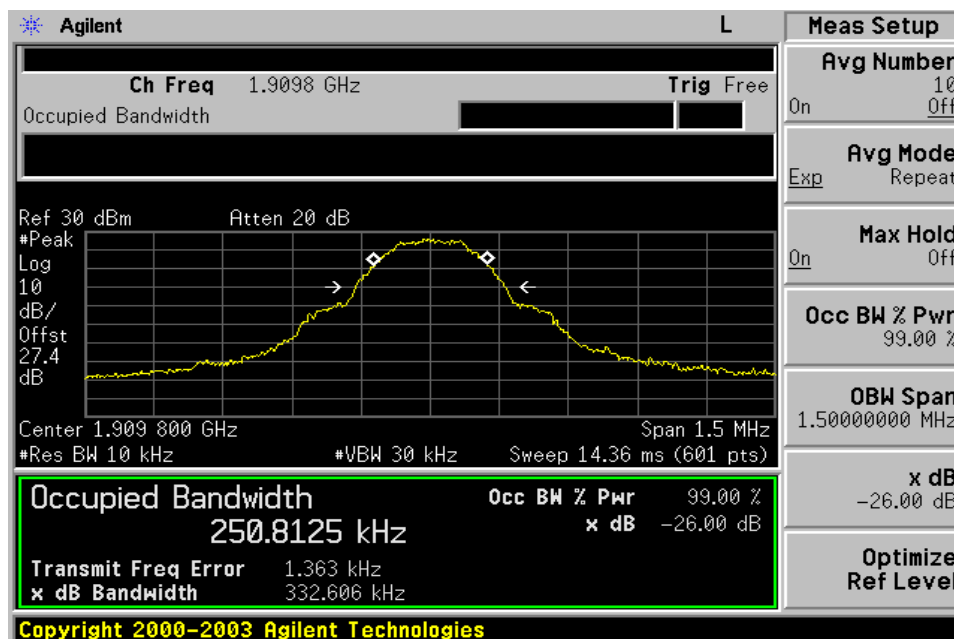


Figure 7-5: PCS Channel Mid



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Figure 7-6: PCS Channel High



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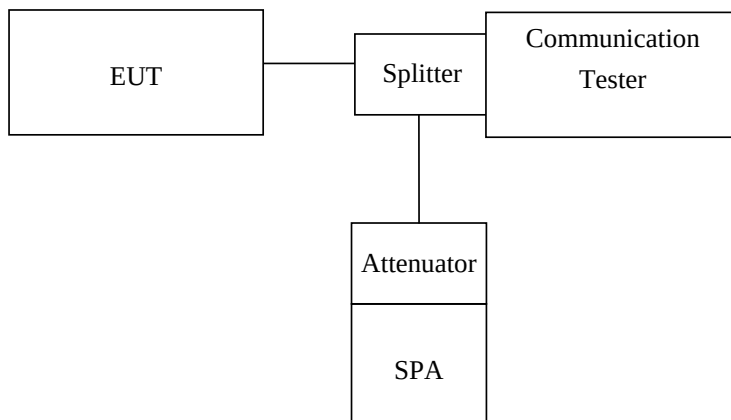
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

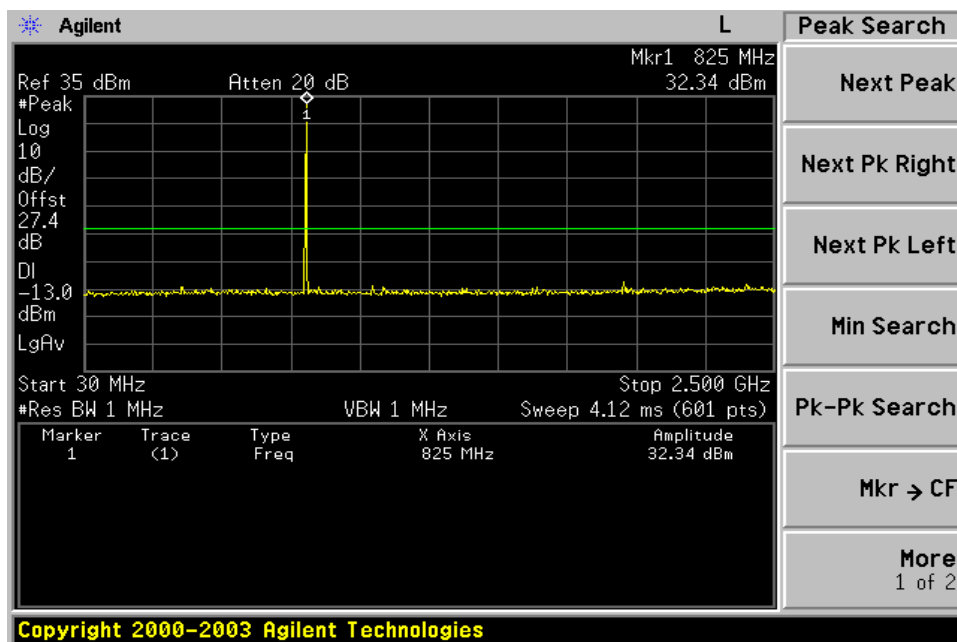
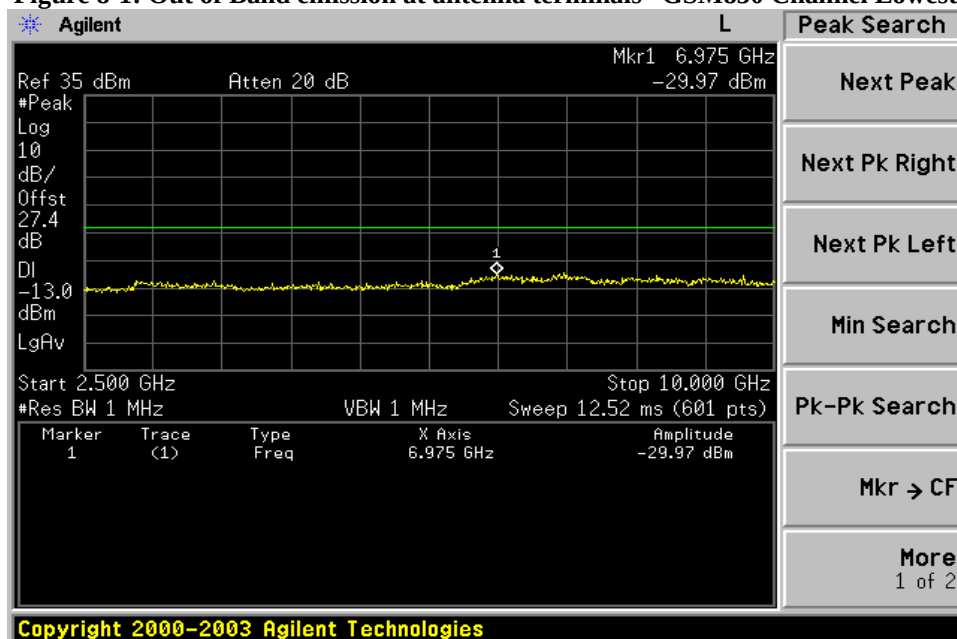
8.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2005	11/12/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

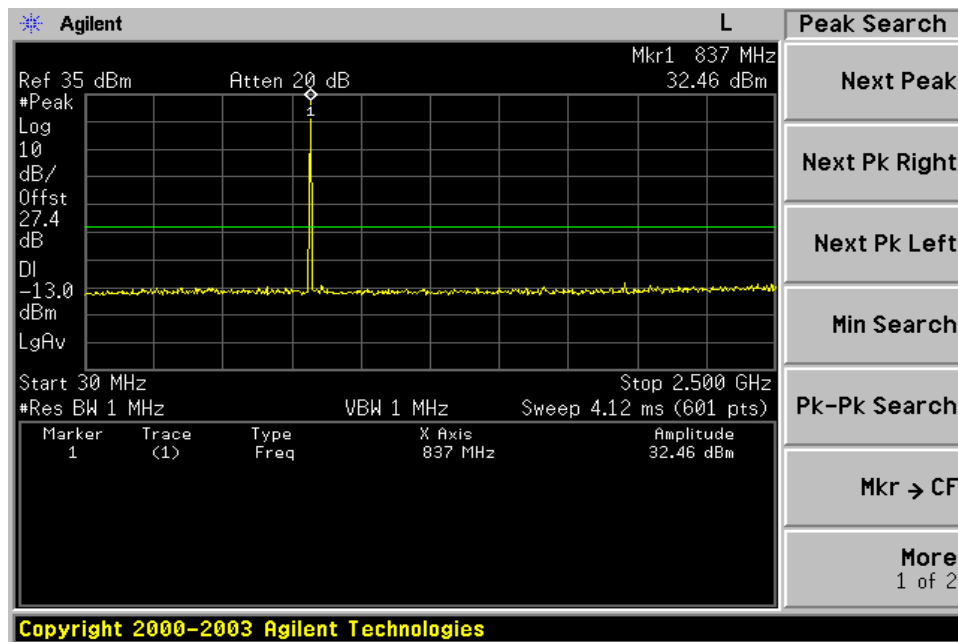
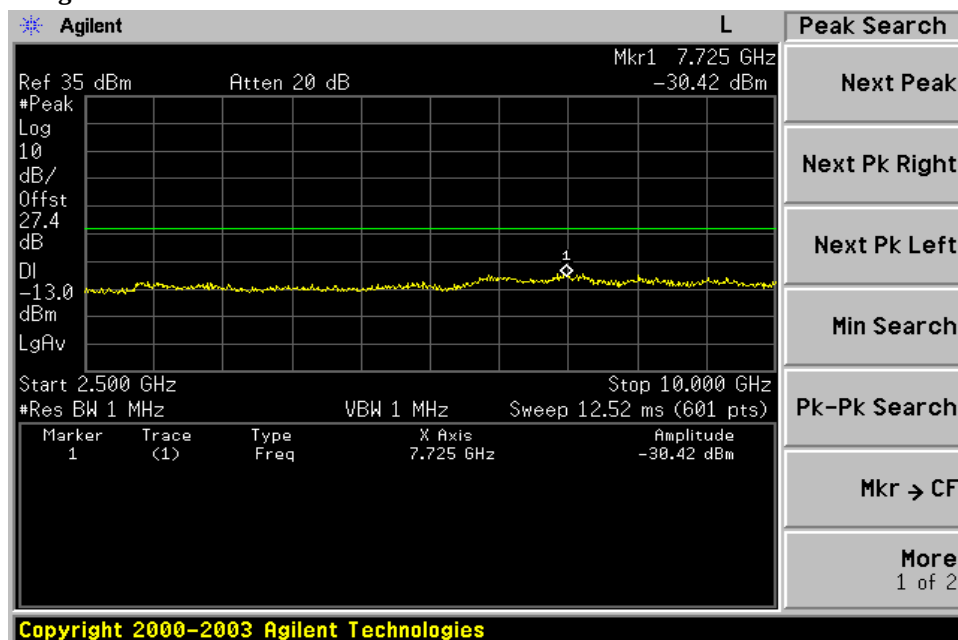
8.5 Measurement Result

Figure 8-1: Out of Band emission at antenna terminals– GSM850 Channel Lowest

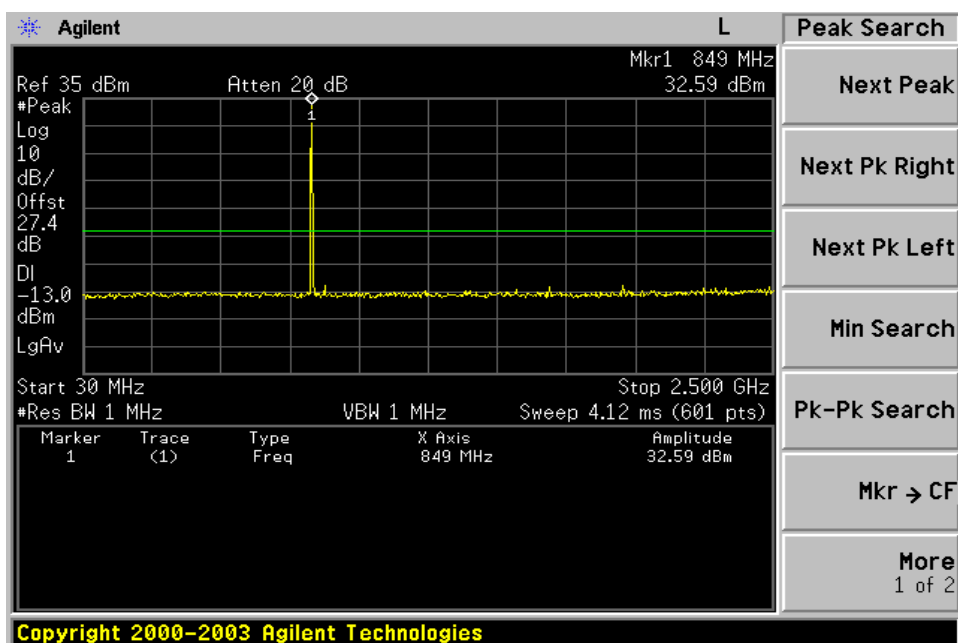
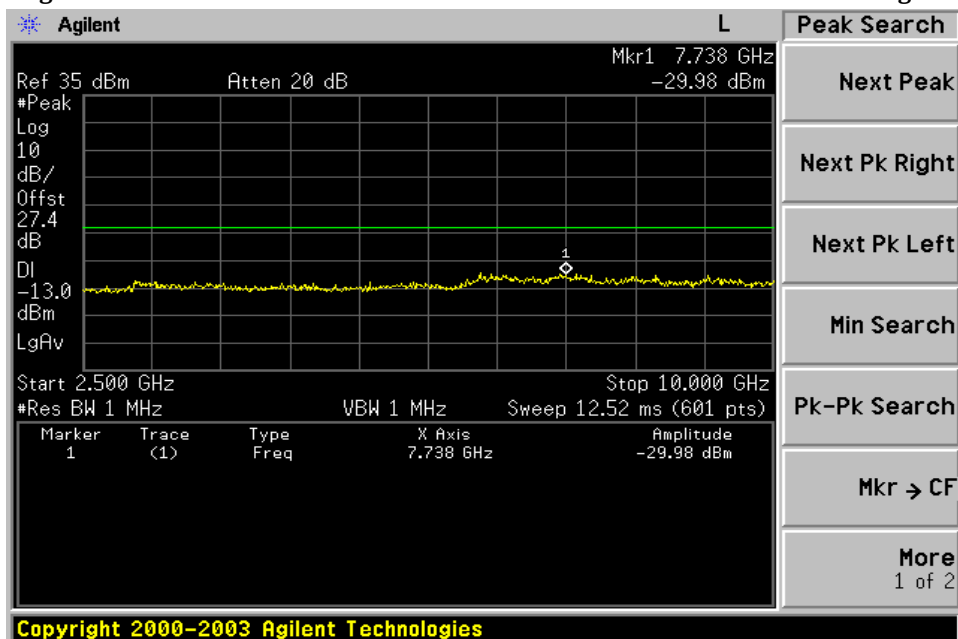


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Figure 8-2: Out of Band emission at antenna terminals –GSM850 Channel Mid



The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Figure 8-3: Out of Band emission at antenna terminals–GSM850 Channel Highest


The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Figure 8-4: Bad edge emission at antenna terminals – GSM850 Channel Lowest

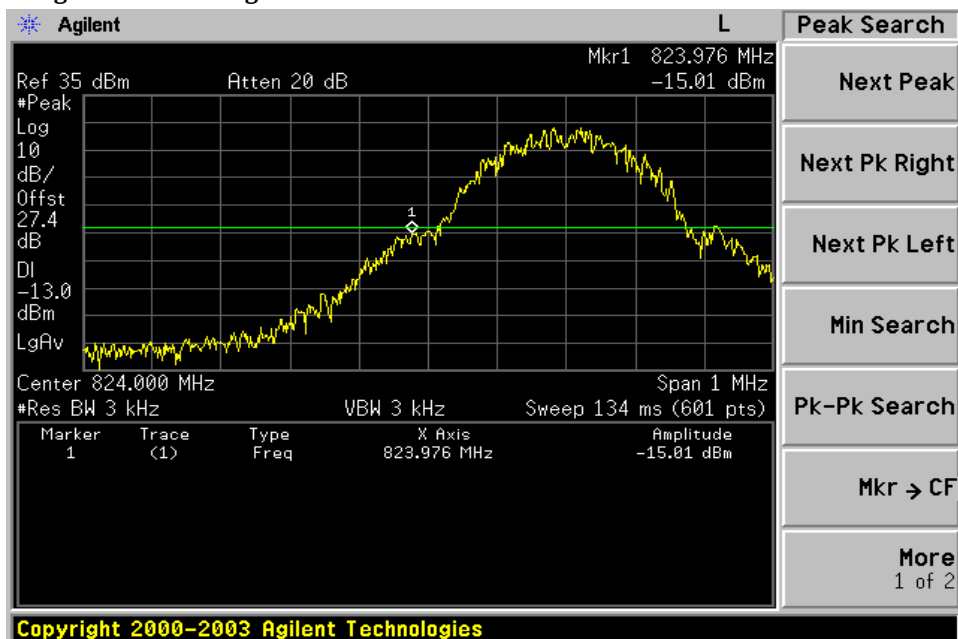
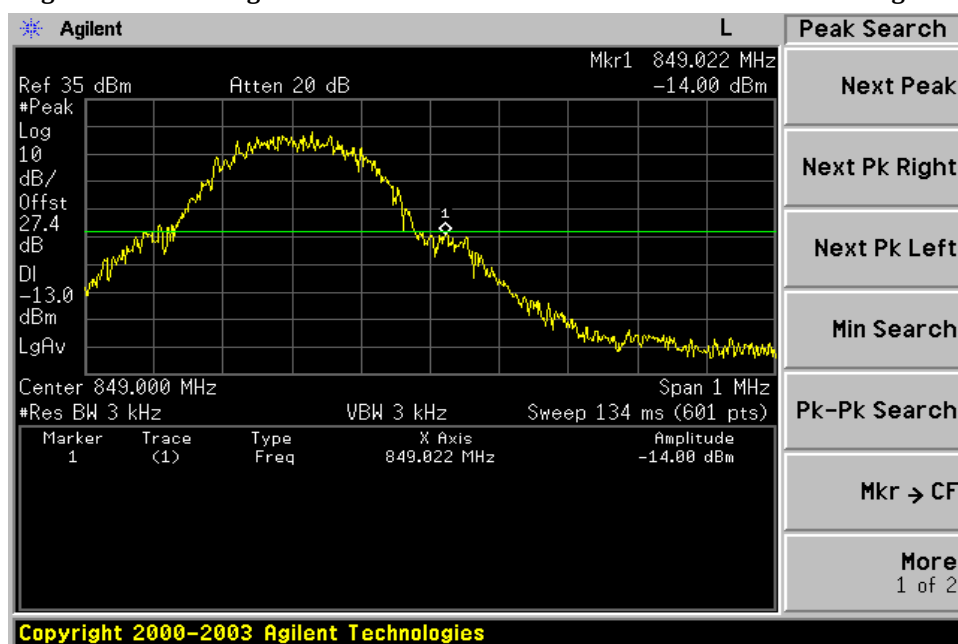
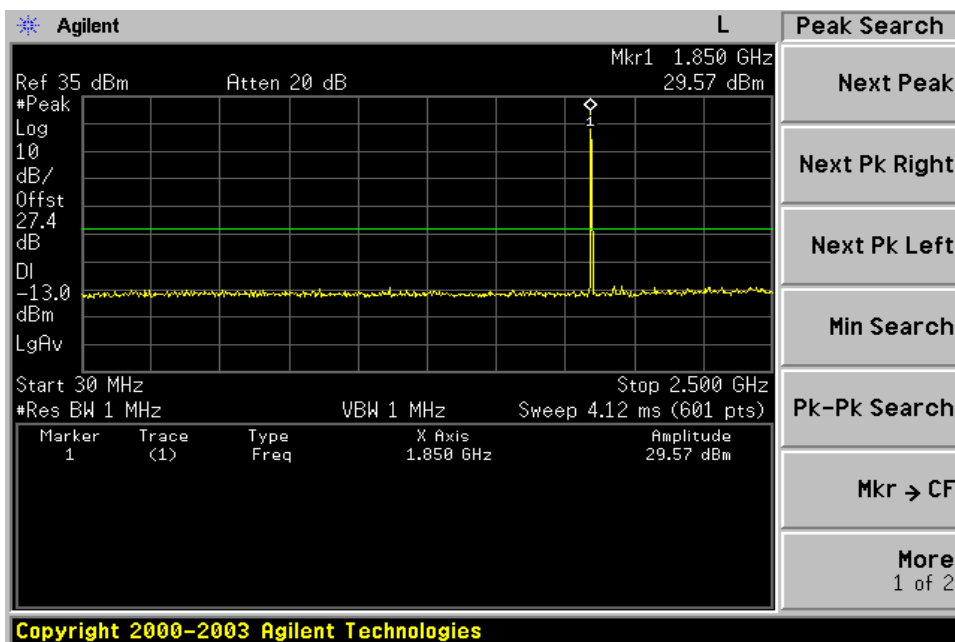
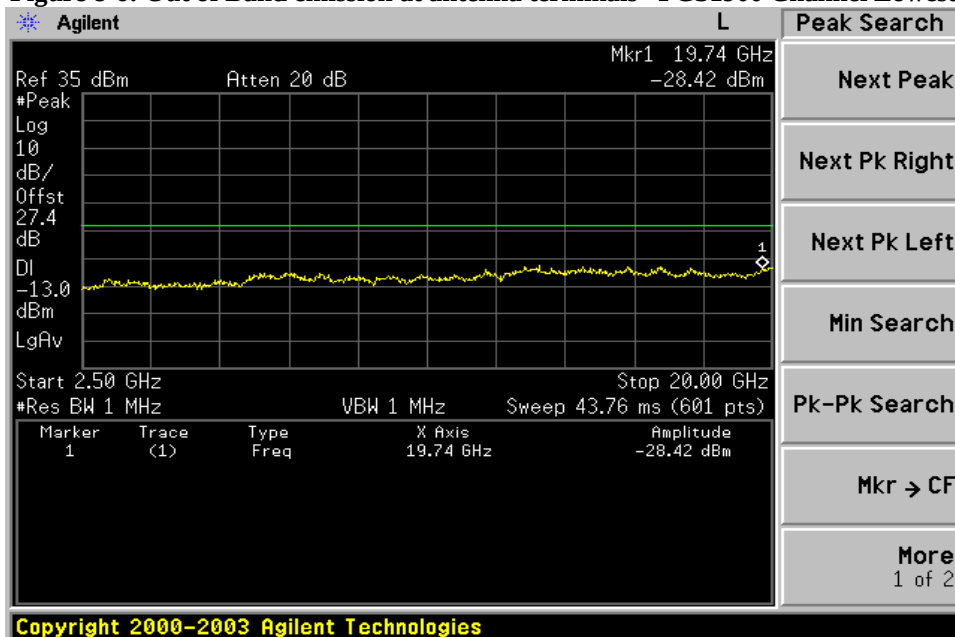


Figure 8-5: Band edge emission at antenna terminals – GSM850 Channel Highest



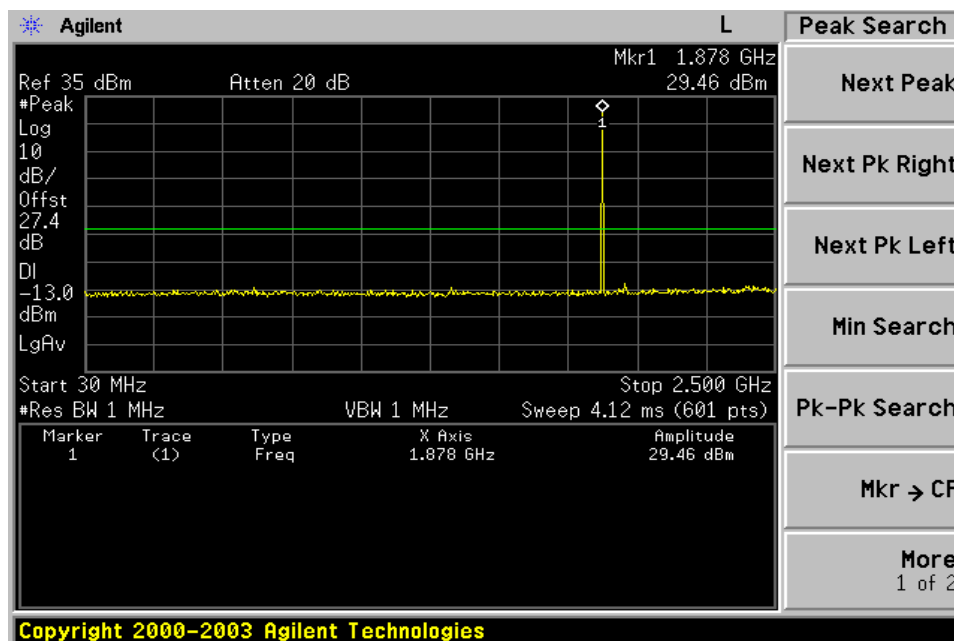
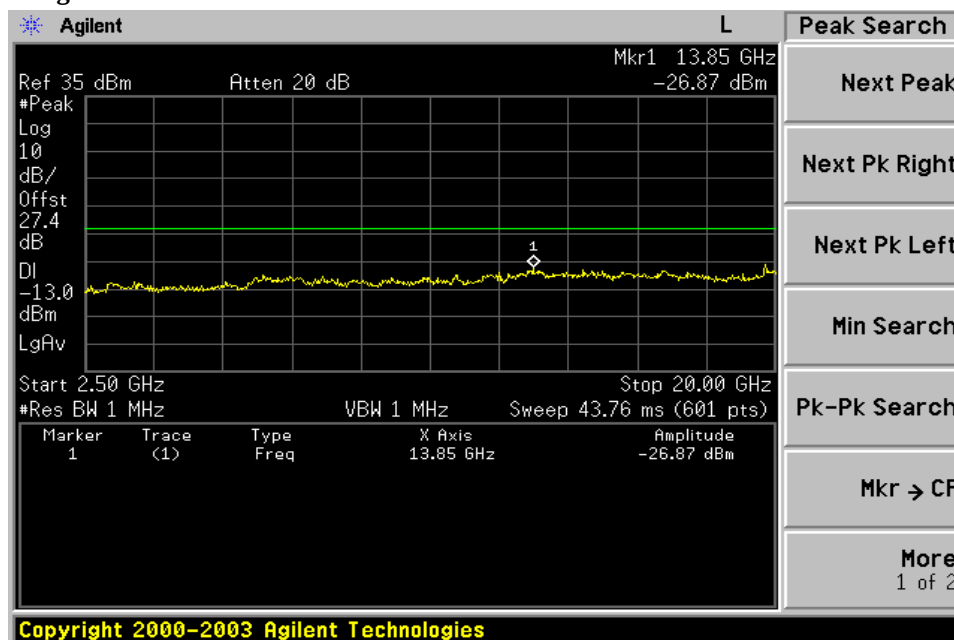
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Figure 8-6: Out of Band emission at antenna terminals– PCS1900 Channel Lowest



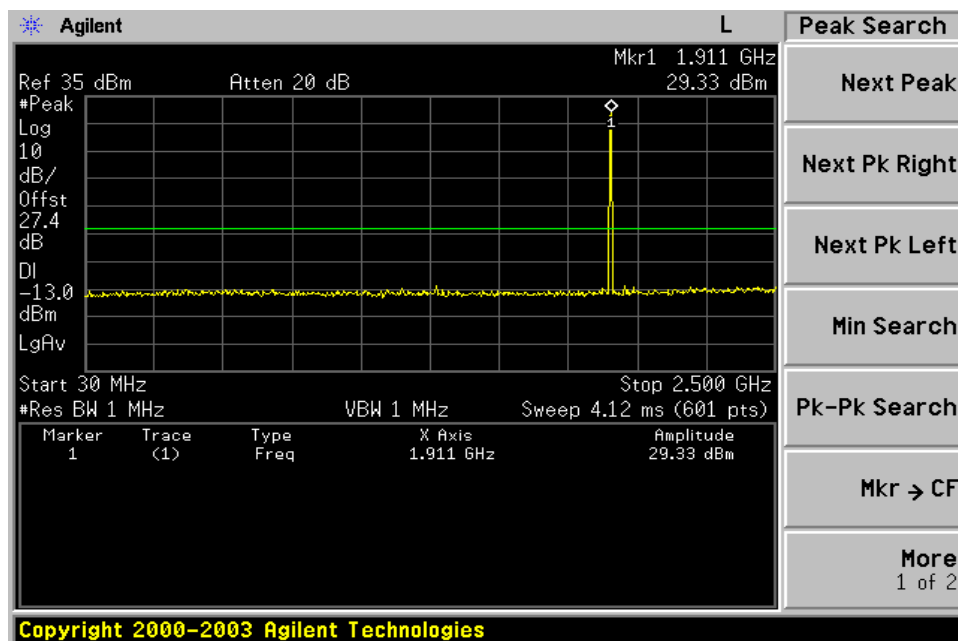
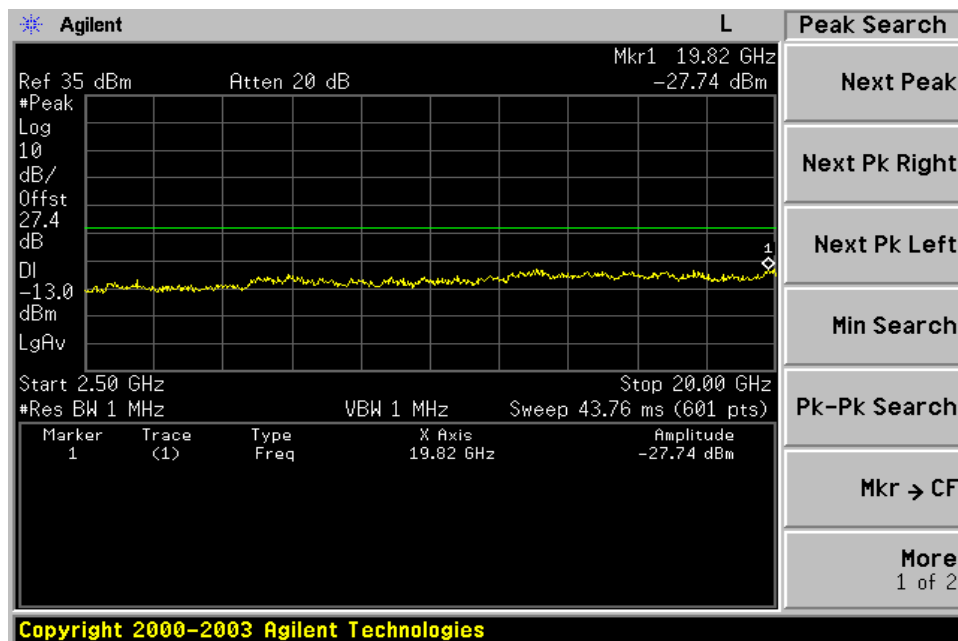
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Figure 8-7: Out of Band emission at antenna terminals –PCS1900 Channel Mid



The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Figure 8-8: Out of Band emission at antenna terminals–PCS1900 Channel Highest



The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Figure 8-9: Bad edge emission at antenna terminals – PCS1900 Channel Lowest

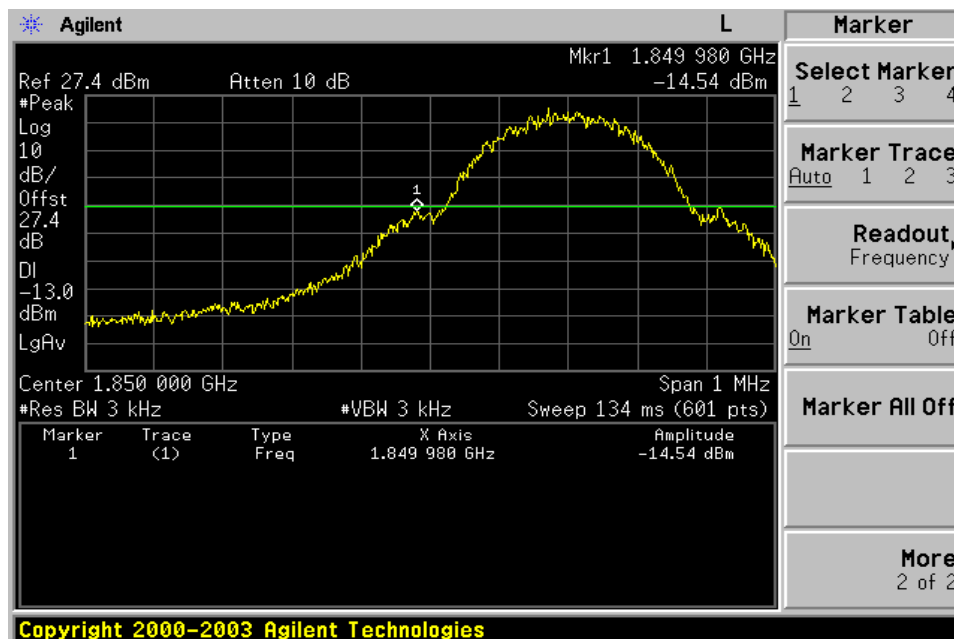
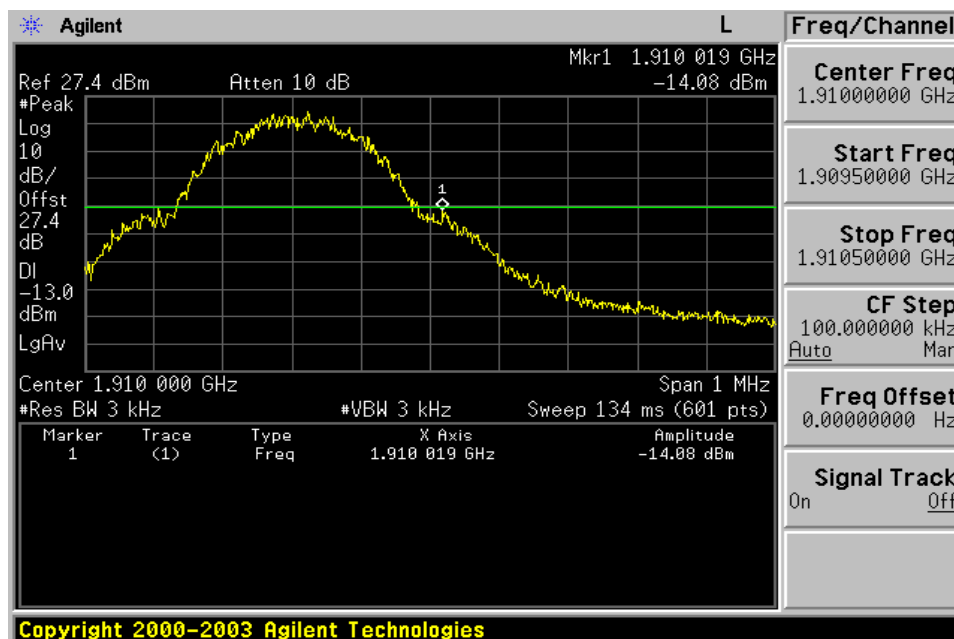


Figure 8-10: Band edge emission at antenna terminals – PCS1900 Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

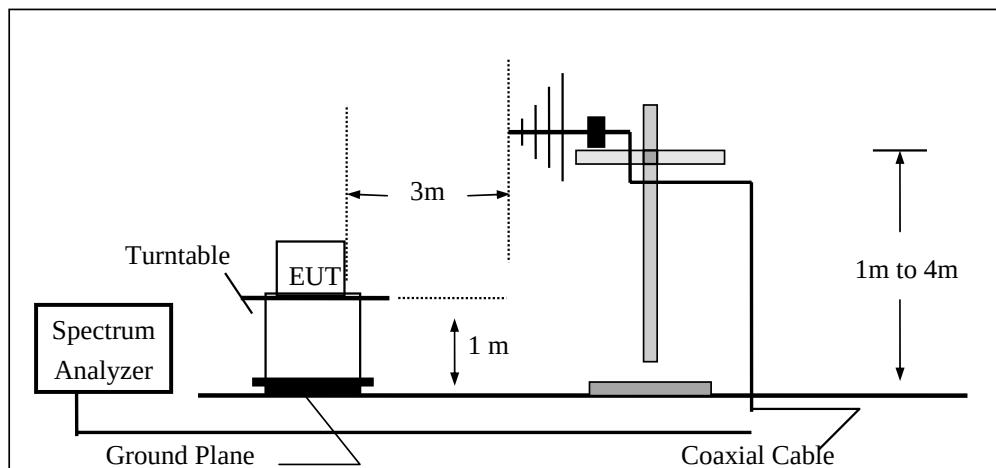
9.1 Standard Applicable

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)

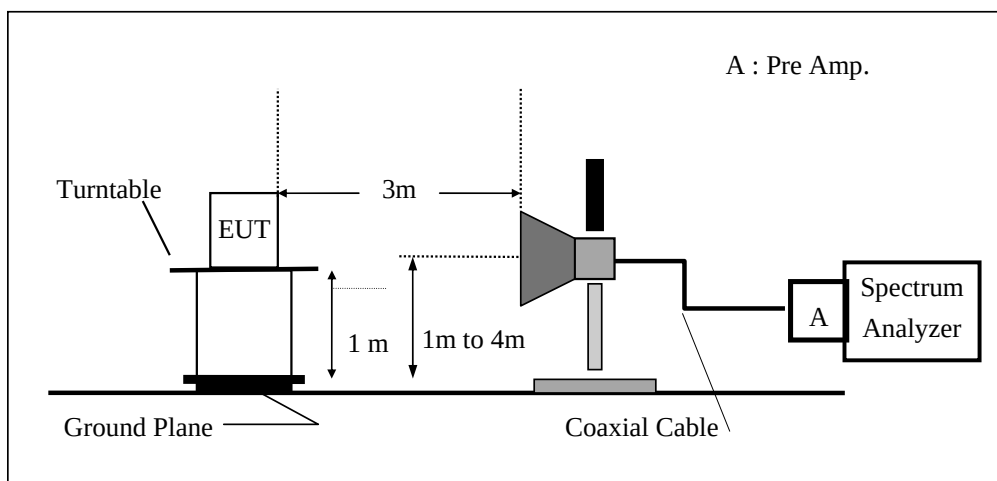
9.2 EUT Setup (Block Diagram of Configuration)

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

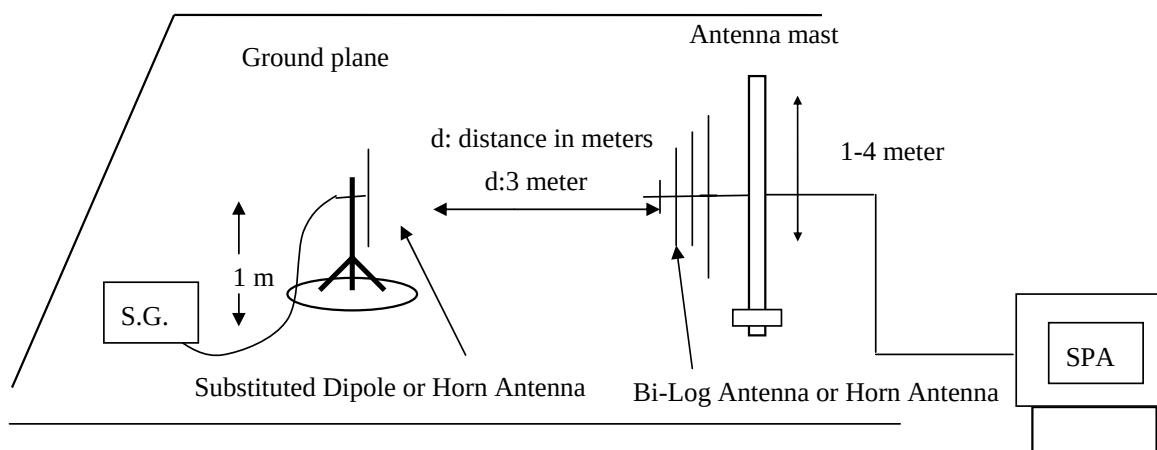


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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9.3 Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

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

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

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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	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2005	06/02/2006
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2005	08/15/2006
Pre-Amplifier	HP	8447D	2944A09469	07/19/2005	07/18/2006
Pre-Amplifier	HP	8494B	3008A00578	02/26/2005	02/25/2006
Signal Generator	R&S	SMR40	100210	02/09/2005	02/10/2006
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	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2005	09/22/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2004	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2004	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2004	08/15/2006

格式化: 項目符號及編號

Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Earphone mode

Operation Mode : TX CH Low E2 Mode

Fundamental Frequency : 824.20 MHz

Temperature : 25°C

Humidity : 65%

Test Date: Dec.20, 2005

Test By: Sky

Pol: Hor.

Adaptor Model: N/A

Supplier: Sagem

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	46.96	V	-63.54	-0.49	0.94	-64.96	-13.00	-51.96
85.29	54.43	V	-49.49	-7.75	1.13	-58.37	-13.00	-45.37
111.48	42.87	V	-59.43	-7.77	1.28	-68.48	-13.00	-55.48
824.00	85.54	V	-1.79	-7.87	3.64	-13.31	-13.00	-0.31
1648.40	63.14	V	-43.90	9.29	5.06	-39.67	-13.00	-26.67
2472.60	---	V		10.08	6.30		-13.00	
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	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Earphone mode

Operation Mode : TX CH Low E2 Mode
Fundamental Frequency : 824.20 MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Hor.
Adaptor Model: N/A
Supplier: Sagem

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)
60.72	41.47	H	-69.81	-0.50	0.95	-71.26	-13.00	-58.26
75.59	47.24	H	-65.12	-1.85	1.05	-68.02	-13.00	-55.02
92.08	46.91	H	-56.69	-7.75	1.17	-65.61	-13.00	-52.61
824.00	85.43	H	-2.23	-7.87	3.64	-13.75	-13.00	-0.75
1648.40	66.99	H	-40.02	9.29	5.06	-35.79	-13.00	-22.79
2472.60	---	H		10.08	6.30		-13.00	
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-13.00	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Earphone mode

Operation Mode : TX CH Mid E2 Mode
Fundamental Frequency : 836.60 MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Ver
Adaptor Model: N/A
Supplier: Sagem

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)
58.13	48.14	V	-62.36	-0.49	0.94	-63.78	-13.00	-50.78
85.29	55.99	V	-47.93	-7.75	1.13	-56.81	-13.00	-43.81
111.48	43.85	V	-58.45	-7.77	1.28	-67.50	-13.00	-54.50
1673.20	70.29	V	-36.74	9.36	5.10	-32.48	-13.00	-19.48
2509.80	---	V		10.09	6.35		-13.00	
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	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Earphone mode

Operation Mode : TX CH Mid E2 Mode
Fundamental Frequency : 836.60 MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Hor.
Adaptor Model: N/A
Supplier: Sagem

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)
60.72	41.30	H	-69.98	-0.50	0.95	-71.43	-13.00	-58.43
75.59	46.82	H	-65.54	-1.85	1.05	-68.44	-13.00	-55.44
92.08	41.74	H	-61.86	-7.75	1.17	-70.78	-13.00	-57.78
1673.20	65.14	H	-41.86	9.36	5.10	-37.59	-13.00	-24.59
2509.80	---	H		10.09	6.35		-13.00	
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-13.00	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Earphone mode

Operation Mode : TX CH High E2 Mode
 Fundamental Frequency : 848.8 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Dec.20, 2005
 Test By: Sky
 Pol: Ver
 Adaptor Model: N/A
 Supplier: Sagem

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	47.31	V	-63.19	-0.49	0.94	-64.61	-13.00	-51.61
85.29	53.57	V	-50.35	-7.75	1.13	-59.23	-13.00	-46.23
111.48	44.94	V	-57.36	-7.77	1.28	-66.41	-13.00	-53.41
850.00	83.79	V	-2.92	-7.88	3.75	-14.55	-13.00	-1.55
1697.60	70.18	V	-36.84	9.44	5.14	-32.55	-13.00	-19.55
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	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Earphone mode

Operation Mode : TX CH High E2 Mode
Fundamental Frequency : 848.8 MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Hor.
Adaptor Model: N/A
Supplier: Sagem

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)
60.72	43.84	H	-67.44	-0.50	0.95	-68.89	-13.00	-55.89
75.59	49.10	H	-63.26	-1.85	1.05	-66.16	-13.00	-53.16
92.08	44.72	H	-58.88	-7.75	1.17	-67.80	-13.00	-54.80
850.00	83.23	H	-3.76	-7.88	3.75	-15.39	-13.00	-2.39
1697.60	62.98	H	-44.00	9.44	5.14	-39.71	-13.00	-26.71
2546.40	---	H		10.20	6.40		-13.00	
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-13.00	
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-13.00	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Earphone mode

Operation Mode : TX CH Low H Mode
 Fundamental Frequency : 1850.20MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Dec.20, 2005
 Test By: Sky
 Pol: Ver
 Adaptor Model: N/A
 Supplier: Sagem

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)
58.13	47.01	V	-63.49	-0.49	0.94	-64.91	-13.00	-51.91
85.29	52.12	V	-51.80	-7.75	1.13	-60.68	-13.00	-47.68
111.48	45.78	V	-56.52	-7.77	1.28	-65.57	-13.00	-52.57
1840.00	67.02	V	-39.94	9.87	5.39	-35.47	-13.00	-22.47
1850.00	78.27	V	-28.69	9.90	5.41	-24.20	-13.00	-11.20
3700.40	48.63	V	-52.95	12.61	7.73	-48.07	-13.00	-35.07
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	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Earphone mode

Operation Mode : TX CH Low H Mode
Fundamental Frequency : 1850.20MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Hor.
Adaptor Model: N/A
Supplier: Sagem

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)
60.72	42.65	H	-68.63	-0.50	0.95	-70.08	-13.00	-57.08
75.59	46.46	H	-65.90	-1.85	1.05	-68.80	-13.00	-55.80
92.08	44.89	H	-58.71	-7.75	1.17	-67.63	-13.00	-54.63
1840.00	70.76	H	-36.14	9.87	5.39	-31.66	-13.00	-18.66
1850.00	82.95	H	-23.94	9.90	5.41	-19.45	-13.00	-6.45
3700.40	47.91	H	-53.45	12.61	7.73	-48.57	-13.00	-35.57
5550.60	---	H		13.23	9.68		-13.00	
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-13.00	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Earphone mode

Operation Mode : TX CH Mid H Mode
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Dec.20, 2005
 Test By: Sky
 Pol: Ver
 Adaptor Model: N/A
 Supplier: Sagem

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)
58.13	47.18	V	-63.32	-0.49	0.94	-64.74	-13.00	-51.74
85.29	54.99	V	-48.93	-7.75	1.13	-57.81	-13.00	-44.81
111.48	45.37	V	-56.93	-7.77	1.28	-65.98	-13.00	-52.98
1877.50	66.38	V	-40.57	9.98	5.45	-36.04	-13.00	-23.04
7520.00	45.98	V	-39.63	11.45	11.33	-39.52	-13.00	-26.52
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	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Earphone mode

Operation Mode : TX CH Mid H Mode

Fundamental Frequency : 1880MHz

Temperature : 25°C

Humidity : 65%

Test Date: Dec.20, 2005

Test By: Sky

Pol: Hor.

Adaptor Model: N/A

Supplier: Sagem

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)
60.72	40.82	H	-70.46	-0.50	0.95	-71.91	-13.00	-58.91
75.59	48.91	H	-63.45	-1.85	1.05	-66.35	-13.00	-53.35
92.08	42.60	H	-61.00	-7.75	1.17	-69.92	-13.00	-56.92
1877.50	68.28	H	-38.59	9.98	5.45	-34.07	-13.00	-21.07
7520.00	45.77	H	-39.92	11.45	11.33	-39.80	-13.00	-26.80
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-13.00	

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Earphone mode

Operation Mode : TX CH High H Mode
Fundamental Frequency : 1909.8 MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Ver
Adaptor Model: N/A
Supplier: Sagem

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)
58.13	48.09	V	-62.41	-0.49	0.94	-63.83	-13.00	-50.83
85.29	54.28	V	-49.64	-7.75	1.13	-58.52	-13.00	-45.52
111.48	45.22	V	-57.08	-7.77	1.28	-66.13	-13.00	-53.13
1910.00	78.06	V	-28.88	10.08	5.51	-24.31	-13.00	-11.31
1915.00	59.08	V	-47.85	10.09	5.52	-43.28	-13.00	-30.28
3981.60	45.62	V	-54.66	12.60	8.17	-50.24	-13.00	-37.24
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	

Remark :

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Earphone mode

Operation Mode : TX CH High H Mode
Fundamental Frequency : 1909.8 MHz
Temperature : 25°C
Humidity : 65%

Test Date: Dec.20, 2005
Test By: Sky
Pol: Hor.
Adaptor Model: N/A
Supplier: Sagem

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)
1915.00	64.00	H	-42.85	10.09	5.52	-38.28	-13.00	-25.28
3805.00	47.04	H	-53.88	12.60	7.89	-49.17	-13.00	-36.17
60.72	44.82	H	-66.46	-0.50	0.95	-67.91	-13.00	-54.91
75.59	47.90	H	-64.46	-1.85	1.05	-67.36	-13.00	-54.36
92.08	45.28	H	-58.32	-7.75	1.17	-67.24	-13.00	-54.24
1910.00	80.54	H	-26.31	10.08	5.51	-21.75	-13.00	-8.75
1915.00	64.00	H	-42.85	10.09	5.52	-38.28	-13.00	-25.28
3981.60	47.04	H	-53.14	12.60	8.17	-48.71	-13.00	-35.71
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	

Remark :

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

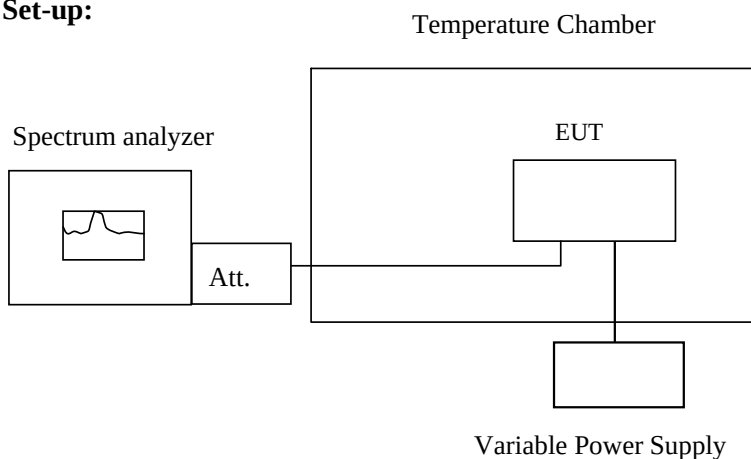
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

10.2 Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes re-recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2005	09/22/2006
Splitter	Agilent	11636B	51728	09/23/2005	09/22/2006
AC Power Supply	APW-105N	887592	All Power	N/A	N/A

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10.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.59965	290.00	2091
3.7	-20	836.5997	240.00	2091
3.7	-10	836.59972	220.00	2091
3.7	0	836.59987	70.00	2091
3.7	10	836.59990	40.00	2091
3.7	20	836.59994	0.00	2091
3.7	30	836.60005	-110.00	2091
3.7	40	836.60005	-110.00	2091
3.7	50	836.60007	-130.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.99980	150.00	4700
3.7	-20	1879.99980	150.00	4700
3.7	-10	1879.99986	90.00	4700
3.7	0	1879.99990	50.00	4700
3.7	10	1879.99990	50.00	4700
3.7	20	1879.99995	0.00	4700
3.7	30	1879.99995	0.00	4700
3.7	40	1879.99999	-40.00	4700
3.7	50	1880.00004	-90.00	4700

Note: The battery is rated 3.7V dc.

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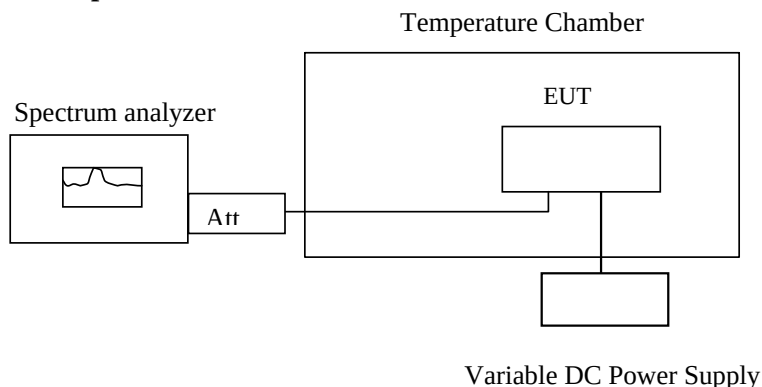
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

11.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

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

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

11.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2005	06/29/2006

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2005	09/22/2006
Splitter	Agilent	11636B	51728	09/23/2005	09/22/2006
AC Power Supply	APW-105N	887592	All Power	N/A	N/A

11.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.70	25.00	836.59994	0.00	2091.00
3.65	25.00	836.5999	40.00	2091.00
4.26	25.00	836.60008	-140.00	2091.00
3.64 (End Point)	25.00	836.59990	40.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	25	1879.99995	0.00	4700
3.35	25	1879.9999	50.00	4700
4.255	25	1880.00002	-70.00	4700
3.34 (Endpoint)	25	1879.99990	50.00	4700

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.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power 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 110Vac/60Hz power source.

12.3 Measurement Procedure

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

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12.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2005	09/03/2006
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2005	06/10/2006
Transient Limiter	HP	11947A	3107A02062	09/02/2005	09/03/2006
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2005	12/30/2006
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2005	12/23/2006
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2005	12/23/2006

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
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply1
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1 Phase: **L7** Temperature: 25 °C
Limit: CISPR22 Class B Conduction(QP) Power: AC 120V50Hz Humidity: 57 %
EUT: GSM850/1900 mobile phone Air Pressure: hpa
MW: A2005sa
Note: GSM850 LINK (Adapter: powersupply1 with 18 867 925-5)

No.	Mk.	Freq. MHz	Reading Level dBu/V	Factor dB	Measure- ment dBu/V	Limit dBu/V	Over dB	Detector	Comment
1		0.3650	42.04	0.61	42.65	58.61	-15.96	QP	
2		0.3650	32.76	0.61	33.37	48.61	-15.24	AVG	
3		0.4350	42.36	0.61	42.97	57.16	-14.19	QP	
4		0.4350	33.37	0.61	33.98	47.16	-13.18	AVG	
5		0.4850	40.55	0.61	41.16	56.25	-15.09	QP	
6		0.4850	30.21	0.61	30.82	46.25	-15.43	AVG	
7		0.7100	42.55	0.61	43.16	55.00	-12.84	QP	
8	*	0.7100	35.99	0.61	36.60	45.00	-9.40	AVG	
9		1.2700	22.34	0.63	22.97	55.00	-33.03	QP	
10		1.2700	31.80	0.63	32.43	45.00	-13.57	AVG	
11		2.0050	45.91	0.65	46.56	55.00	-9.44	QP	
12		2.0050	34.06	0.65	34.71	45.00	-11.29	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply1
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Phase: N

Temperature: 23 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V60Hz

Humidity: 57 %

EUT: GSM850/1900 mobile phone

Air Pressure: hpa

MN: A2005sa

Note: GSM850 LINK (Adaptor: powersupply1 with 18 867 925-5)

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2100	45.58	0.60	47.18	53.21	-16.03	QP	
2		0.2100	35.05	0.60	35.65	53.21	-17.56	AVG	
3		0.3500	48.18	0.60	48.78	58.96	-10.18	QP	
4		0.3500	35.71	0.60	37.31	48.96	-11.65	AVG	
5		0.4050	40.36	0.61	40.97	57.75	-16.78	QP	
6		0.4050	30.68	0.61	31.29	47.75	-16.46	AVG	
7		1.1450	45.38	0.62	46.00	55.00	-10.00	QP	
8		1.1450	31.02	0.62	31.64	45.00	-14.36	AVG	
9		1.5050	43.23	0.64	43.87	55.00	-12.13	QP	
10		1.5050	28.48	0.64	29.12	45.00	-16.88	AVG	
11	*	1.7150	50.49	0.64	51.13	55.00	-4.87	QP	
12		1.7150	39.57	0.64	40.21	45.00	-5.79	AVG	

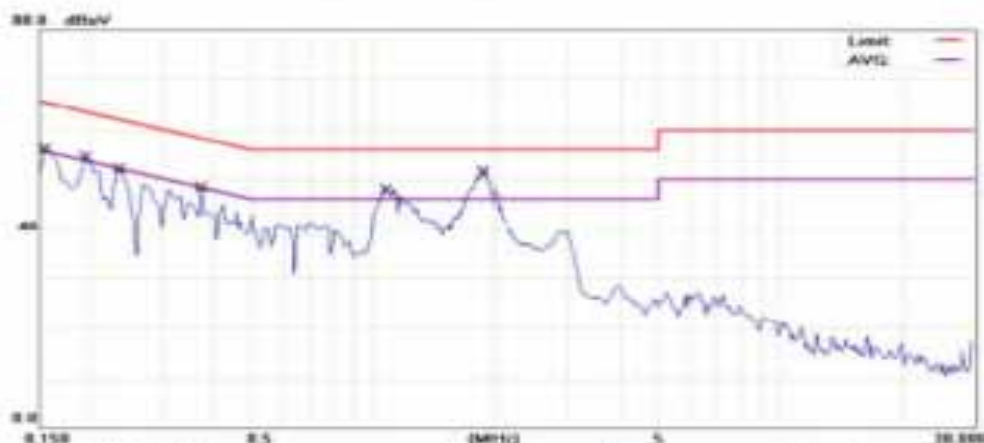
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply1
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: GSM850/1900 mobile phone
M/N: A2005sa
Note: GSM1900 LINK (Adaptor: powersupply1 with 18 867 925-5)
Phase: L1
Power: AC 120V/60Hz
Distance:
Temperature: 23 °C
Humidity: 57 %
At Pressure: 8ps

No.	Mk.	Freq. (MHz)	Reading Level (dBuV)	Factor (dB)	Measure- ment (dBuV)	Limit (dBuV)	Over (dB)	Detected	Comments
1		0.1550	49.43	0.60	50.03	65.73	-15.70	QP	
2		0.1550	30.15	0.60	30.75	55.73	-24.98	AVG	
3		0.1950	48.27	0.60	48.87	63.82	-14.95	QP	
4		0.1950	29.70	0.60	30.30	53.82	-23.52	AVG	
5		0.2350	45.78	0.60	46.38	62.27	-15.89	QP	
6		0.2350	31.97	0.60	32.57	52.27	-19.70	AVG	
7		0.3750	36.48	0.61	36.10	56.39	-19.28	QP	
8		0.3750	22.58	0.61	23.19	48.39	-25.20	AVG	
9		1.0800	41.76	0.62	42.40	56.00	-13.60	QP	
10		1.0800	25.75	0.62	26.37	46.00	-19.63	AVG	
11		1.8800	44.60	0.65	45.25	56.00	-10.75	QP	
12		1.8800	26.80	0.65	27.45	46.00	-18.55	AVG	

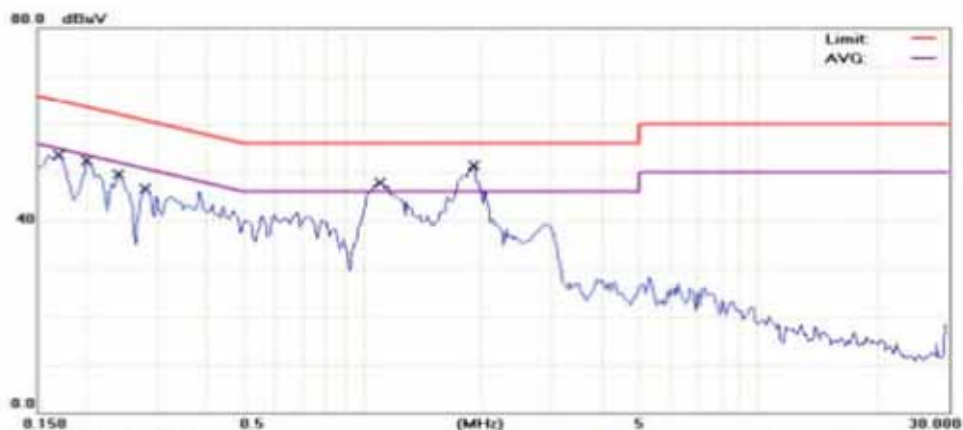
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply1
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adaptor: powersupply1 with 18 867 925-5)

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 23°C

Humidity: 57%

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	46.93	0.60	47.53	64.96	-17.43	QP	
2		0.1700	31.22	0.60	31.82	54.96	-23.14	AVG	
3		0.2000	48.39	0.60	48.99	63.61	-14.62	QP	
4		0.2000	28.66	0.60	29.26	53.61	-24.35	AVG	
5		0.2400	45.76	0.60	46.36	62.10	-15.74	QP	
6		0.2400	34.70	0.60	35.30	52.10	-16.80	AVG	
7		0.2800	43.10	0.60	43.70	60.82	-17.12	QP	
8		0.2800	27.39	0.60	27.99	50.82	-22.83	AVG	
9		1.1100	43.71	0.62	44.33	56.00	-11.67	QP	
10		1.1100	27.46	0.62	28.08	46.00	-17.92	AVG	
11	*	1.9050	44.55	0.65	45.20	56.00	-10.80	QP	
12		1.9050	26.52	0.65	27.17	46.00	-18.83	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850
 Fundamental Frequency : N/A
 Temperature : 23°C
 Humidity : 57%
 Test Voltage : 120Vac

Test Date : Dec.20, 2005
 Test By : Sky
 Pol : Line
 Adaptor Model : powersupply2
 Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Phase: L7

Temperature: 23 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120W@50Hz

Humidity: 57 %

EUT: GSM850/1900 mobile phone

Air Pressure: hpa

M/N: A2005aa

Note: GSM850 LINK (Adaptor: powersupply2 with 18 985 855-9)

No.	Mk.	Freq. MHz	Reading Level dBμV	Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1		0.1850	40.83	0.60	41.43	54.26	-22.83	QP	
2		0.1850	32.37	0.60	32.97	54.26	-21.29	AVG	
3		0.2300	48.36	0.60	48.96	62.45	-13.49	QP	
4		0.2300	30.55	0.60	31.15	62.45	-21.30	AVG	
5		0.2800	45.28	0.60	45.88	60.82	-14.94	QP	
6		0.2800	27.37	0.60	27.97	60.82	-22.85	AVG	
7		0.3250	42.16	0.60	42.76	59.58	-16.82	QP	
8		0.3250	27.73	0.60	28.33	59.58	-21.25	AVG	
9		1.1600	38.79	0.62	39.41	55.00	-16.59	QP	
10		1.1600	22.01	0.62	22.63	55.00	-23.37	AVG	
11	*	1.7850	46.14	0.64	46.78	55.00	-8.22	QP	
12		1.7850	29.17	0.64	29.81	55.00	-16.19	AVG	

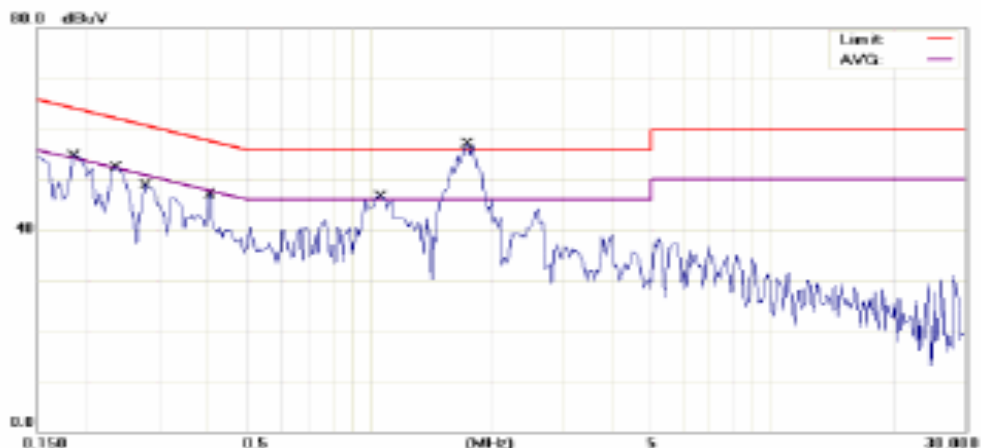
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply2
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: GSM850/1900 mobile phone
MN: A2005sa
Note: GSM850 LINK (Adaptor: powersupply2 with 18.865 855-8)

Phase: N
Power: AC 120V60Hz
Temperature: 23 °C
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBu/V	dB	dBu/V	dBu/V	dB		
1		0.1850	45.99	0.60	46.59	64.26	-17.67	QP	
2		0.1850	35.18	0.60	36.78	54.26	-17.48	AVG	
3		0.2350	48.66	0.60	49.26	62.27	-13.01	QP	
4		0.2350	31.20	0.60	31.80	52.27	-20.47	AVG	
5		0.2800	44.65	0.60	45.25	60.82	-15.57	QP	
6		0.2800	28.27	0.60	28.87	50.82	-21.95	AVG	
7		0.4050	40.99	0.61	41.60	57.75	-16.15	QP	
8		0.4050	25.87	0.61	27.48	47.75	-20.27	AVG	
9		1.0650	41.18	0.62	41.80	56.00	-14.20	QP	
10		1.0650	28.46	0.62	29.08	46.00	-16.92	AVG	
11	*	1.7400	50.87	0.64	51.51	56.00	-4.49	QP	
12		1.7400	38.24	0.64	38.88	46.00	-7.12	AVG	

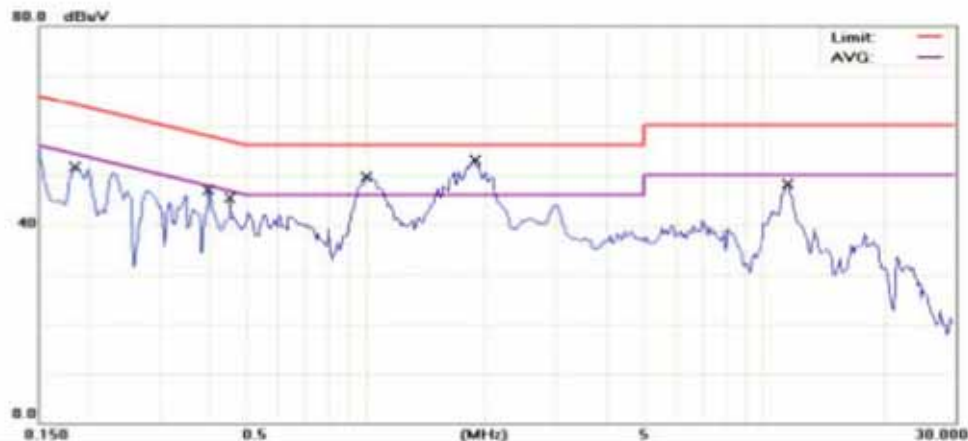
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply2
Supplier : Sagem

Conducted Emission Measurement



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adapler: powersupply2 with 18 865 855-8)

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

Humidity: 57 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1850	47.39	0.60	47.99	64.26	-16.27	QP	
2		0.1850	28.75	0.60	29.35	54.26	-24.91	AVG	
3		0.4000	39.11	0.61	39.72	57.85	-18.13	QP	
4		0.4000	21.74	0.61	22.35	47.85	-25.50	AVG	
5		0.4550	39.34	0.61	39.95	56.78	-16.83	QP	
6		0.4550	24.93	0.61	25.54	46.78	-21.24	AVG	
7		1.0000	44.65	0.62	45.27	56.00	-10.73	QP	
8		1.0000	26.47	0.62	27.09	46.00	-18.91	AVG	
9	*	1.8700	46.69	0.65	47.34	56.00	-8.66	QP	
10		1.8700	25.46	0.65	26.11	46.00	-19.89	AVG	
11		11.5500	40.36	0.95	41.31	60.00	-18.69	QP	
12		11.5500	29.85	0.95	30.80	50.00	-19.20	AVG	

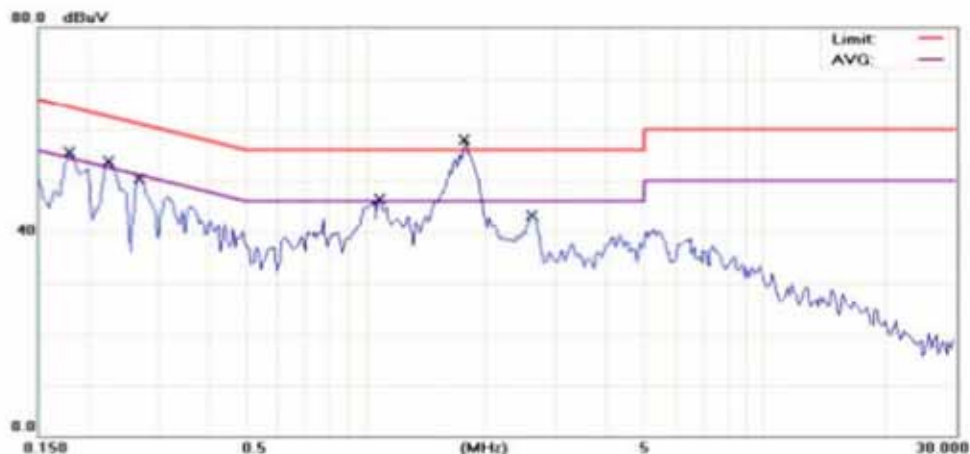
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply2
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adaptor: powersupply2 with 18 865 855-8)

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 23°C

Humidity: 57%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1800	48.45	0.60	49.05	64.49	-15.44	QP	
2		0.1800	30.07	0.60	30.67	54.49	-23.82	AVG	
3		0.2250	46.35	0.60	46.95	62.63	-15.68	QP	
4		0.2250	27.03	0.60	27.63	52.63	-25.00	AVG	
5		0.2700	42.44	0.60	43.04	61.12	-18.08	QP	
6		0.2700	23.03	0.60	23.63	51.12	-27.49	AVG	
7		1.0800	39.30	0.62	39.92	56.00	-16.08	QP	
8		1.0800	21.86	0.62	22.48	46.00	-23.52	AVG	
9	*	1.7700	50.28	0.64	50.92	56.00	-5.08	QP	
10		1.7700	27.26	0.64	27.90	46.00	-18.10	AVG	
11		2.6200	38.94	0.67	39.61	56.00	-16.39	QP	
12		2.6200	20.34	0.67	21.01	46.00	-24.99	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply3
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1 Phase: L7 Temperature: 23 °C
Limit: CISPR22 Class B Conduction(QP) Power: AC 120W/50Hz Humidity: 57 %
EUT: GSM850/1900 mobile phone Air Pressure: hpa
Mk: A2005sa
Note: GSM850 LINK (Adaptor: powersupply3 with 18 865 853-7)

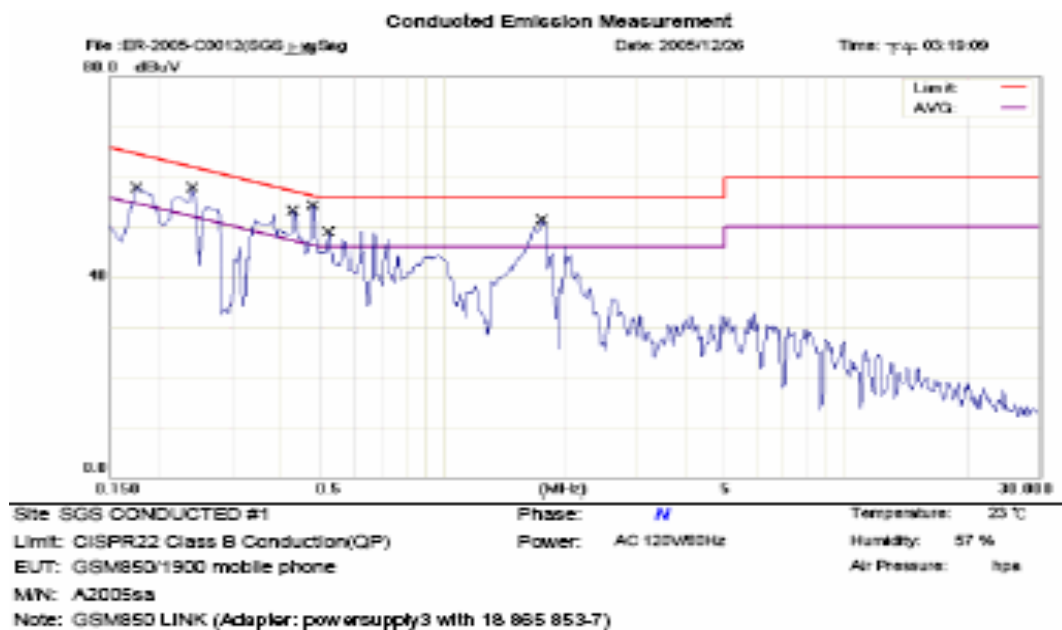
No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3400	52.69	0.60	53.29	62.10	-8.81	QP	
2		0.3400	24.55	0.60	25.15	52.10	-26.95	AVG	
3		0.3650	50.61	0.60	50.61	61.27	-10.66	QP	
4		0.3650	28.37	0.60	28.97	51.27	-22.30	AVG	
5		0.3850	47.10	0.61	47.71	58.17	-10.46	QP	
6		0.3850	25.98	0.61	26.59	48.17	-21.58	AVG	
7		0.4300	43.19	0.61	43.80	57.25	-13.45	QP	
8		0.4300	20.34	0.61	20.95	47.25	-26.30	AVG	
9		0.4800	50.21	0.61	50.82	56.34	-5.52	QP	
10		0.4800	24.77	0.61	25.38	46.34	-20.96	AVG	
11	*	1.8250	50.53	0.64	51.17	55.00	-4.83	QP	
12		1.8250	33.07	0.64	33.71	46.00	-12.29	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply3
Supplier : Sagem



No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBu/V	dB	dBu/V	dBu/V	dB		
1		0.1750	52.62	0.60	53.22	64.72	-11.50	QP	
2		0.1750	22.63	0.60	23.23	54.72	-31.49	AVG	
3		0.2400	41.88	0.60	42.48	62.10	-19.62	QP	
4		0.2400	39.61	0.60	40.21	52.10	-11.89	AVG	
5		0.4300	47.52	0.61	48.13	57.25	-9.12	QP	
6		0.4300	32.57	0.61	33.18	47.25	-14.07	AVG	
7	*	0.4800	45.87	0.61	47.48	55.34	-8.86	QP	
8		0.4800	27.13	0.61	27.74	45.34	-18.60	AVG	
9		0.5250	42.63	0.61	43.24	55.00	-12.76	QP	
10		0.5250	26.21	0.61	26.82	45.00	-19.18	AVG	
11		1.7450	42.80	0.64	43.44	55.00	-12.56	QP	
12		1.7450	25.06	0.64	25.70	45.00	-20.30	AVG	

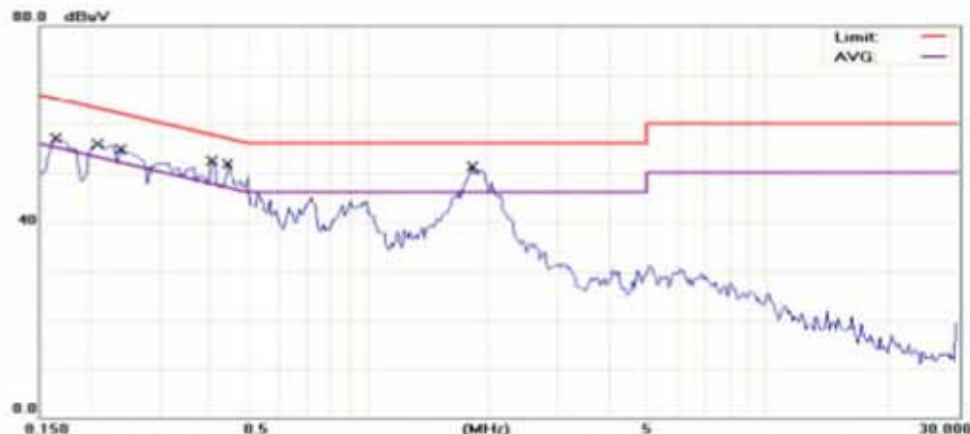
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply3
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adaptor: powersupply3 with 18 865 853-7)

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 23°C

Humidity: 57%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1650	52.44	0.60	53.04	65.21	-12.17	QP	
2		0.1650	31.71	0.60	32.31	55.21	-22.90	AVG	
3	*	0.2100	52.21	0.60	52.81	63.21	-10.40	QP	
4		0.2100	31.70	0.60	32.30	53.21	-20.91	AVG	
5		0.2400	44.28	0.60	44.88	62.10	-17.22	QP	
6		0.2400	20.84	0.60	21.44	52.10	-30.66	AVG	
7		0.4050	45.25	0.61	45.86	57.75	-11.89	QP	
8		0.4050	24.70	0.61	25.31	47.75	-22.44	AVG	
9		0.4450	42.82	0.61	43.43	56.97	-13.54	QP	
10		0.4450	24.68	0.61	25.29	46.97	-21.68	AVG	
11		1.8250	42.45	0.64	43.09	56.00	-12.91	QP	
12		1.8250	20.81	0.64	21.45	46.00	-24.55	AVG	

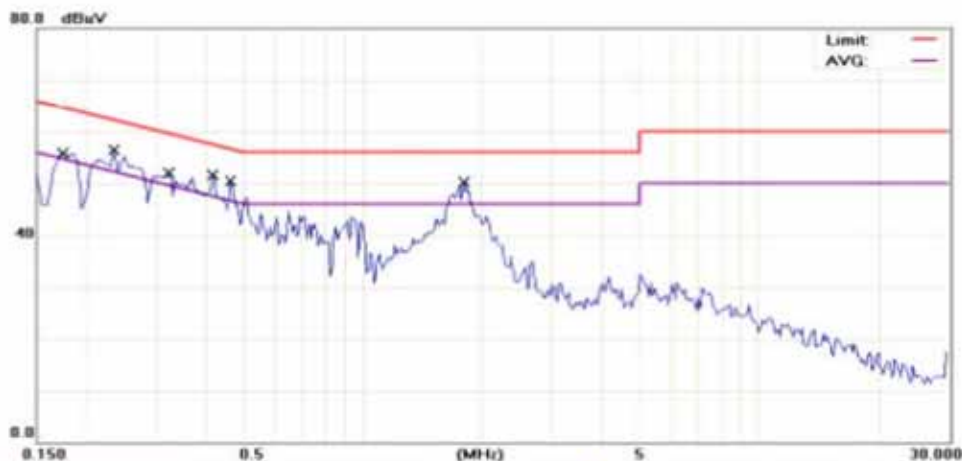
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply3
Supplier : Sagem

Conducted Emission Measurement



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adapter: powersupply3 with 18 865 853-7)

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

Humidity: 57 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1750	52.38	0.60	52.98	64.72	-11.74	QP	
2		0.1750	34.99	0.60	35.59	54.72	-19.13	AVG	
3		0.2350	51.03	0.60	51.63	62.27	-10.64	QP	
4		0.2350	33.49	0.60	34.09	52.27	-18.18	AVG	
5	*	0.3250	49.07	0.60	49.67	59.58	-9.91	QP	
6		0.3250	33.14	0.60	33.74	49.58	-15.84	AVG	
7		0.4150	45.82	0.61	46.43	57.55	-11.12	QP	
8		0.4150	28.76	0.61	29.37	47.55	-18.18	AVG	
9		0.4650	45.48	0.61	46.09	56.60	-10.51	QP	
10		0.4650	31.01	0.61	31.62	46.60	-14.98	AVG	
11		1.7950	43.00	0.64	43.64	56.00	-12.36	QP	
12		1.7950	20.06	0.64	20.70	46.00	-25.30	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
 Fundamental Frequency : N/A
 Temperature : 23°C
 Humidity : 57%
 Test Voltage : 120Vac

Test Date : Dec.20, 2005
 Test By : Sky
 Pol : Line
 Adaptor Model : powersupply4
 Supplier : Sagem

Conducted Emission Measurement



Site: SGS-CONDUCTED #1 Phase: 1.7 Temperature: 23 °C
 Limit: CISPR22 Class B Conduction (QP) Power: AC 120V/60Hz Humidity: 57 %
 EUT: GSM850/1900 mobile phone Distance: Air Pressure: hpa
 MW: A2005sa
 Note: GSM850 LINK (Adapter: powersupply4 with 18 864 404-6)

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1800	48.09	0.60	48.69	54.49	-15.80	QP	
2		0.1800	29.74	0.60	30.34	54.49	-24.15	AVG	
3		0.9250	40.41	0.62	41.03	56.00	-14.97	QP	
4		0.9250	25.36	0.62	25.98	46.00	-20.02	AVG	
5		1.2650	40.46	0.63	41.09	56.00	-14.91	QP	
6		1.2650	21.89	0.63	22.52	46.00	-23.48	AVG	
7		1.4600	41.78	0.63	42.41	56.00	-13.59	QP	
8		1.4600	24.54	0.63	25.17	46.00	-20.83	AVG	
9		1.6100	43.58	0.64	44.22	56.00	-11.78	QP	
10		1.6100	23.68	0.64	24.32	46.00	-21.68	AVG	
11	*	1.8850	50.69	0.65	51.34	56.00	-4.66	QP	
12		1.8850	28.71	0.65	29.36	46.00	-16.64	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
 Fundamental Frequency : N/A
 Temperature : 23°C
 Humidity : 57%
 Test Voltage : 120Vac

Test Date : Dec.20, 2005
 Test By : Sky
 Pol : Neutral
 Adaptor Model : powersupply4
 Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1 Phase: **N** Temperature: 23 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 57 %
 EUT: GSM850/1900 mobile phone Air Pressure: hpa
 MN: A2005sa
 Note: GSM850 LINK (Adaptor: powersupply4 with 18 864 404-6)

No.	Mk.	Freq. MHz	Reading Level dBu/V	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1800	47.13	0.60	47.73	64.49	-16.76	QP	
2		0.1800	32.29	0.60	32.89	54.49	-21.60	AVG	
3		0.2250	43.73	0.60	44.33	62.63	-18.30	QP	
4		0.2250	30.20	0.60	30.80	52.63	-21.83	AVG	
5		0.9400	44.35	0.62	44.97	55.00	-11.03	QP	
6		0.9400	25.54	0.62	27.16	45.00	-18.84	AVG	
7		1.2850	42.87	0.63	43.50	55.00	-12.50	QP	
8		1.2850	23.84	0.63	24.47	45.00	-21.53	AVG	
9		1.5600	44.67	0.64	45.31	55.00	-10.69	QP	
10		1.5600	25.46	0.64	26.10	45.00	-19.90	AVG	
11	*	1.7750	49.14	0.64	49.78	55.00	-5.22	QP	
12		1.7750	30.07	0.64	30.71	45.00	-15.29	AVG	

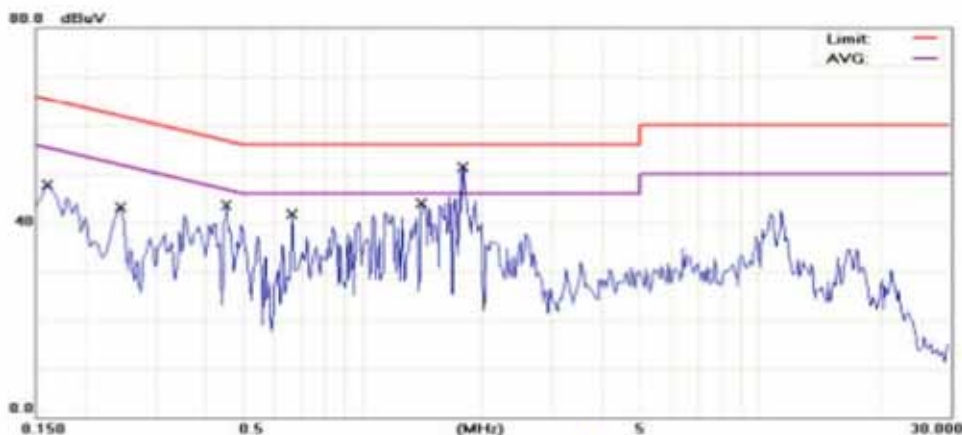
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply4
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(OP)
EUT: GSM850/1900 mobile phone
M/N: A2005sa
Note: GSM1900 LINK (Adaptor: powersupply4 with 18 864 404-6)

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

Temperature: 23 °C
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1600	38.09	0.60	38.69	65.46	-26.77	QP	
2		0.1600	25.25	0.60	25.85	55.46	-29.61	AVG	
3		0.2450	34.21	0.60	34.81	61.92	-27.11	QP	
4		0.2450	12.71	0.60	13.31	51.92	-38.61	AVG	
5		0.4550	32.87	0.61	33.48	56.78	-23.30	QP	
6		0.4550	28.14	0.61	28.75	46.78	-18.03	AVG	
7		0.6650	33.28	0.61	33.89	56.00	-22.11	QP	
8		0.6650	28.19	0.61	28.80	46.00	-17.20	AVG	
9		1.4100	36.90	0.63	37.53	56.00	-18.47	QP	
10	*	1.4100	28.76	0.63	29.39	46.00	-16.61	AVG	
11		1.7900	34.99	0.64	35.63	56.00	-20.37	QP	
12		1.7900	21.52	0.64	22.16	46.00	-23.84	AVG	

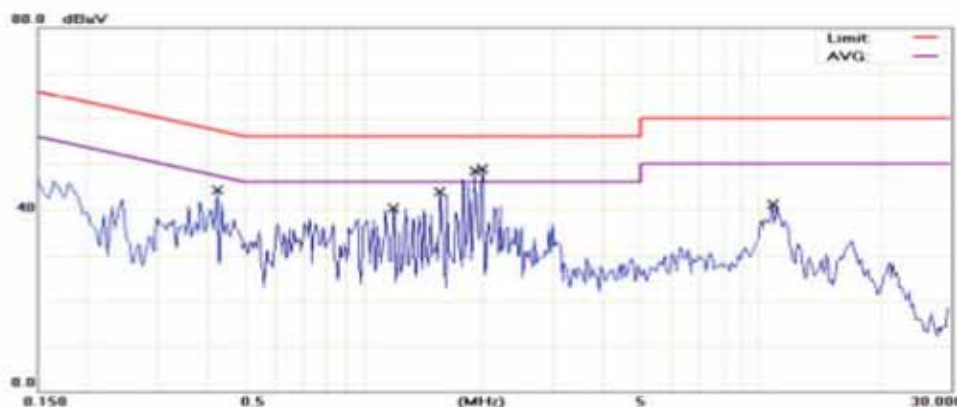
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply4
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: GSM850/1900 mobile phone
M/N: A2005sa
Note: GSM1900 LINK (Adapter: powersupply4 with 18 864 404-6)

Phase: N
Power: AC 120V/60Hz
Distance:
Temperature: 23 °C
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4250	32.92	0.61	33.53	57.35	-23.82	QP	
2		0.4250	20.22	0.61	20.83	47.35	-26.52	AVG	
3		1.1900	25.26	0.63	25.89	56.00	-30.11	QP	
4		1.1900	21.82	0.63	22.45	46.00	-23.55	AVG	
5		1.5550	26.98	0.64	27.62	56.00	-28.38	QP	
6		1.5550	19.72	0.64	20.36	46.00	-25.64	AVG	
7	*	1.9050	34.14	0.65	34.79	56.00	-21.21	QP	
8		1.9050	20.15	0.65	20.80	46.00	-25.20	AVG	
9		1.9850	32.56	0.65	33.21	56.00	-22.79	QP	
10		1.9850	21.04	0.65	21.69	46.00	-24.31	AVG	
11		10.8000	27.88	0.96	28.84	60.00	-31.16	QP	
12		10.8000	12.23	0.96	13.19	50.00	-36.81	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply5
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Phase: L7

Temperature: 23 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/50Hz

Humidity: 57 %

EUT: GSM850/1900 mobile phone

Air Pressure: hpa

MM: A2005aa

Note: GSM850 LINK (Adaptor : powersupply5 with 18 869 2000)

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.4350	41.58	0.61	42.19	57.16	-14.97	QP	
2		0.4350	27.69	0.61	28.30	47.16	-18.86	AVG	
3	"	0.4750	45.82	0.61	46.43	55.43	-10.00	QP	
4		0.4750	32.27	0.61	32.88	45.43	-13.55	AVG	
5		0.5650	41.40	0.61	42.01	55.00	-13.99	QP	
6		0.5650	30.75	0.61	31.36	45.00	-14.64	AVG	
7		1.0650	42.57	0.62	43.19	55.00	-12.81	QP	
8		1.0650	28.19	0.62	28.81	45.00	-17.19	AVG	
9		1.5300	41.53	0.64	42.17	55.00	-13.83	QP	
10		1.5300	30.66	0.64	31.30	45.00	-14.70	AVG	
11		2.0150	42.84	0.65	43.49	55.00	-12.51	QP	
12		2.0150	35.23	0.65	35.88	45.00	-10.12	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM 850
 Fundamental Frequency : N/A
 Temperature : 23°C
 Humidity : 57%
 Test Voltage : 120Vac

Test Date : Dec.20, 2005
 Test By : Sky
 Pol : Neutral
 Adaptor Model : powersupply5
 Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Phase: N

Temperature: 23 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V60Hz

Humidity: 57 %

EUT: GSM850/1900 mobile phone

Air Pressure: hpa

M/N: A2005ss

Note: GSM850 LINK (Adaptor : powersupply5 with 18 850 2000)

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBu/V	dB	dBu/V	dBu/V	dB	Detector	Comment
1		0.3500	42.04	0.60	42.64	58.96	-16.32	QP	
2		0.3500	28.77	0.60	29.37	48.96	-19.59	AVG	
3		0.3850	41.71	0.61	42.32	58.17	-15.85	QP	
4		0.3850	25.44	0.61	26.05	48.17	-22.12	AVG	
5		0.4350	41.94	0.61	42.55	57.16	-14.61	QP	
6		0.4350	27.50	0.61	28.11	47.16	-19.05	AVG	
7		0.4900	39.84	0.61	40.45	56.17	-15.72	QP	
8		0.4900	25.87	0.61	26.48	45.17	-18.69	AVG	
9	*	1.7600	48.03	0.64	48.67	55.00	-7.33	QP	
10		1.7600	31.15	0.64	31.79	45.00	-14.21	AVG	
11		2.6600	39.73	0.67	40.40	55.00	-15.60	QP	
12		2.6600	24.57	0.67	25.24	45.00	-20.76	AVG	

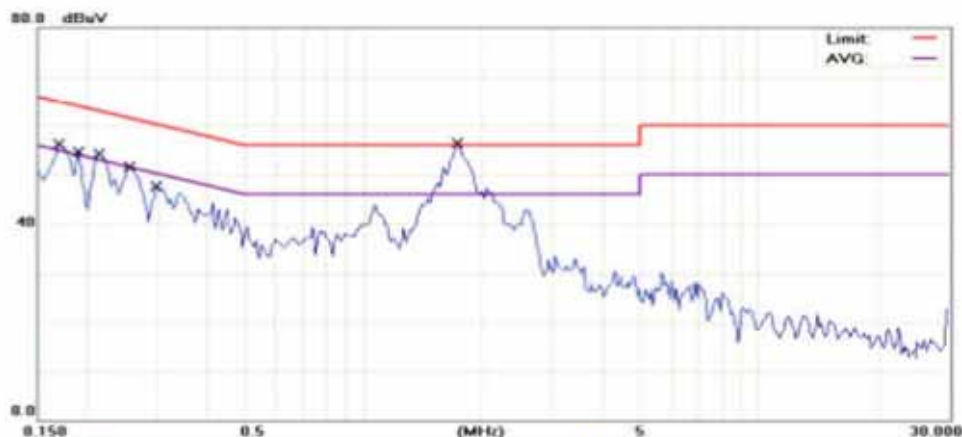
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : powersupply5
Supplier : Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adapter: powersupply5 with 18 869 2000)

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 23 °C

Humidity: 57 %

Air Pressure: hpa

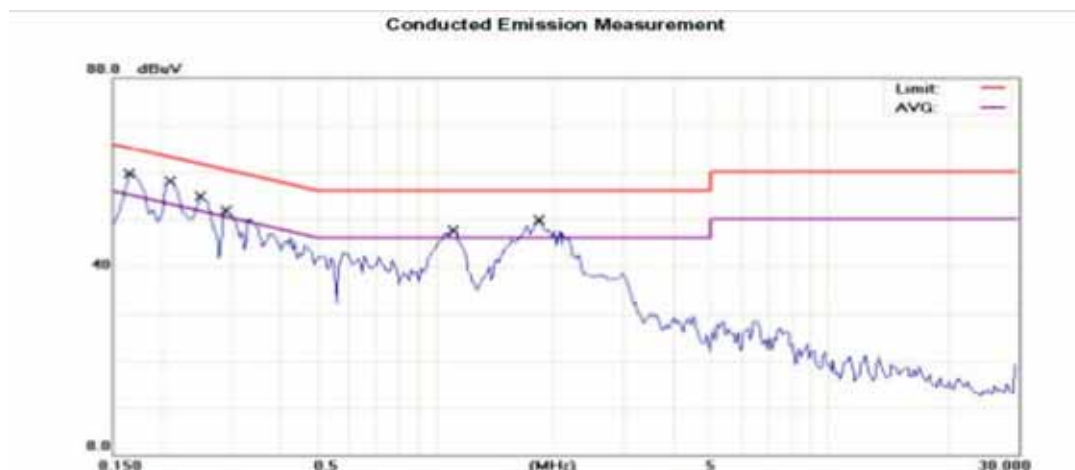
No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV	dB	Detector	Comment
1		0.1700	50.75	0.60	51.35	64.96	-13.61	QP	
2		0.1700	31.35	0.60	31.95	54.96	-23.01	AVG	
3		0.1900	45.13	0.60	45.73	64.04	-18.31	QP	
4		0.1900	28.01	0.60	28.61	54.04	-25.43	AVG	
5		0.2150	49.76	0.60	50.36	63.01	-12.65	QP	
6		0.2150	28.49	0.60	29.09	53.01	-23.92	AVG	
7		0.2550	46.14	0.60	46.74	61.59	-14.85	QP	
8		0.2550	28.64	0.60	29.24	51.59	-22.35	AVG	
9		0.3000	43.17	0.60	43.77	60.24	-16.47	QP	
10		0.3000	21.30	0.60	21.90	50.24	-28.34	AVG	
11	*	1.7300	49.03	0.64	49.67	56.00	-6.33	QP	
12		1.7300	28.58	0.64	29.22	46.00	-16.78	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Neutral
Adaptor Model : powersupply5
Supplier : Sagem



Site: SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (Adapter: powersupply5 with 18 869 2000)

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 23°C

Humidity: 57 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV	dB	Detector	Comment
1		0.1650	52.16	0.60	52.76	65.21	-12.45	QP	
2		0.1650	32.16	0.60	32.76	55.21	-22.45	AVG	
3	*	0.2100	52.55	0.60	53.15	63.21	-10.06	QP	
4		0.2100	29.85	0.60	30.45	53.21	-22.76	AVG	
5		0.2500	48.77	0.60	49.37	61.76	-12.39	QP	
6		0.2500	35.63	0.60	36.23	51.76	-15.53	AVG	
7		0.2900	41.99	0.60	42.59	60.52	-17.93	QP	
8		0.2900	22.95	0.60	23.55	50.52	-26.97	AVG	
9		1.1050	43.25	0.62	43.87	56.00	-12.13	QP	
10		1.1050	27.79	0.62	28.41	46.00	-17.59	AVG	
11		1.8200	42.39	0.64	43.03	56.00	-12.97	QP	
12		1.8200	23.78	0.64	24.42	46.00	-21.58	AVG	

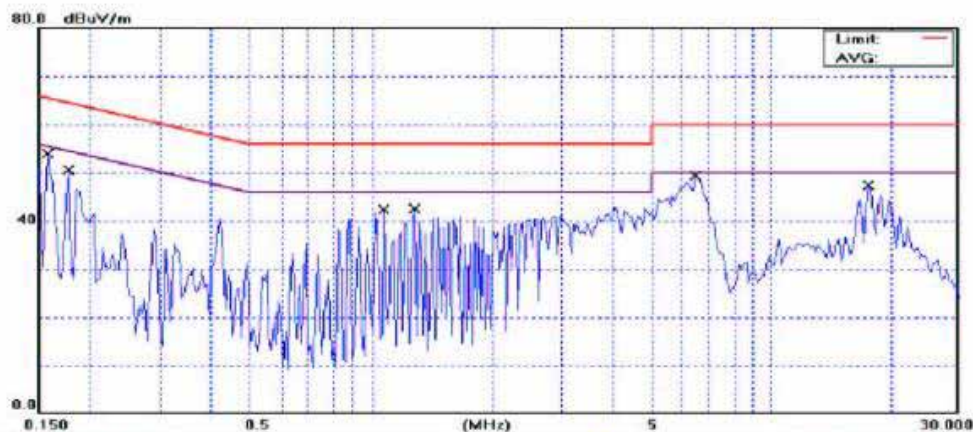
The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : Data cable
Fundamental Frequency : N/A
Temperature : 23°C
Humidity : 57%
Test Voltage : 120Vac

Test Date : Dec.20, 2005
Test By : Sky
Pol : Line
Adaptor Model : N/A
Supplier : Sagem

Conducted Emission Measurement



Site SGS CONDUCTED #1

Limit: EN55022 Class B Conduction(QP)

EUT: GSM850/1900 mobile phone

M/N: A2005sa

Note: GSM1900 LINK (data cable)

Phase: L1

Power: AC120V/60HZ

Distance:

Temperature: 24 °C

Humidity: 66 %

Air Pressure: hpa

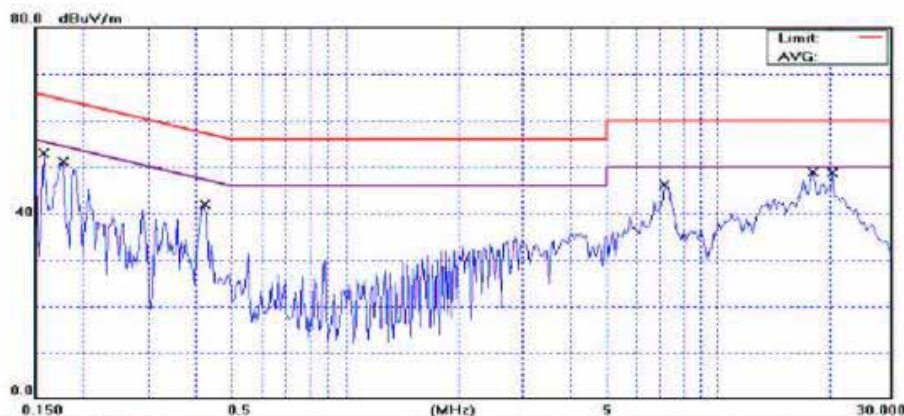
No.	MHz	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1		0.1578	57.39	0.20	57.59	65.58	-7.99	QP	
2		0.1578	35.65	0.20	35.85	55.58	-19.73	AVG	
3		0.1773	51.22	0.20	51.42	64.61	-13.19	QP	
4		0.1773	34.39	0.20	34.59	54.61	-20.02	AVG	
5		1.0836	43.38	0.20	43.58	56.00	-12.42	QP	
6	*	1.0836	42.85	0.20	43.05	46.00	-2.95	AVG	
7		1.2828	43.84	0.20	44.04	56.00	-11.96	QP	
8		1.2828	42.03	0.20	42.23	46.00	-3.77	AVG	
9		6.5094	43.82	0.53	44.35	60.00	-15.65	QP	
10		6.5094	43.35	0.53	43.88	50.00	-6.12	AVG	
11		17.5055	46.16	0.70	46.86	60.00	-13.14	QP	
12		17.5055	40.79	0.70	41.49	50.00	-8.51	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: Normal Operating	Test Date	: Dec.20, 2005
Fundamental Frequency	: N/A	Test By	: Sky
Temperature	: 23°C	Pol	: Neutral
Humidity	: 57%	Adaptor Model	: Data cable
Test Voltage	: 120Vac	Supplier	: Sagem

Conducted Emission Measurement



Site: SGS CONDUCTED #1
Limit: EN55022 Class B Conduction(QP)
EUT: GSM850/1900 mobile phone
M/N: A2005sa
Note: GSM1900 LINK (data cable)

Phase: N
Power: AC120V/60HZ
Distance:
Temperature: 24°C
Humidity: 56 %
Air Pressure: hpa

No.	Hz	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1		0.1578	57.22	0.20	57.42	65.58	-8.16	QP	
2		0.1578	40.47	0.20	40.67	55.58	-14.91	AVG	
3		0.1773	51.02	0.20	51.22	64.61	-13.39	QP	
4		0.1773	36.47	0.20	36.67	54.61	-17.94	AVG	
5		0.4234	40.25	0.20	40.45	57.38	-16.93	QP	
6	*	0.4234	39.89	0.20	40.09	47.38	-7.29	AVG	
7		7.2008	43.78	0.56	44.34	60.00	-15.66	QP	
8		7.2008	36.53	0.56	37.09	50.00	-12.91	AVG	
9		17.9625	44.98	0.76	45.74	60.00	-14.26	QP	
10		17.9625	36.90	0.76	37.66	50.00	-12.34	AVG	
11		20.2594	40.82	0.81	41.63	60.00	-18.37	QP	
12		20.2594	32.82	0.81	33.63	50.00	-16.37	AVG	

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APPENDIX 1

PHOTOGRPHS OF SET UP

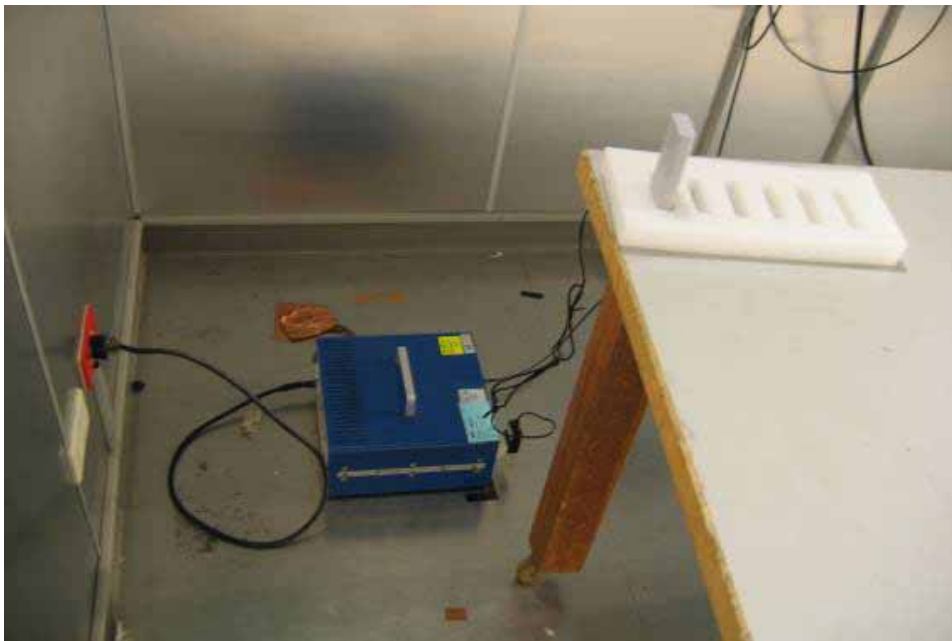
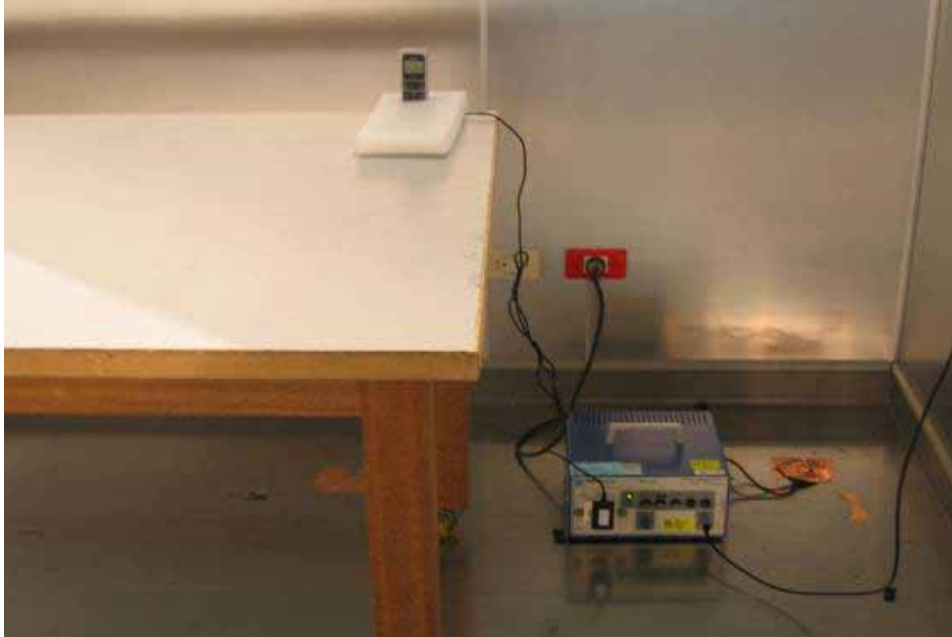
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Radiated Emission Set up Photos



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Conducted Emission Test Setup Photo(Power Adaptor)



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APPENDIX 2

PHOTOGRPHS OF EUT

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All of EUT



Adapter(powersupply1 with 18 867 925-5)



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Adapter((powersupply2 with 18 865 855-8)



Adapter(powersupply3 with 18 865 853-7)



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Adapter(powersupply4 with 18 864 404-6)



Adapter(powersupply5 with 18 869 2000)



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Front View of EUT



Back View of EUT



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Left View of EUT



Right View of EUT



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Internal of EUT --- 1



Internal of EUT --- 2



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Internal of EUT --- 5



Internal of EUT --- 6



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