

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: S-911 Personal Locator

Brand Name: S-911 Personal Locator

Model Name: S-911 205/206

FCC ID: TET-S911LOCATOR

Report No.: ER/2005/80021

Issue Date: May. 30 2006

FCC Rule Part: 2 & 24E& 22H

Prepared for Laipac Technology Inc.
55 West Beaver Creek Rd., Unit 1, Richmond
Hill, Ontario, L4B 1K5, Canada

Prepared by SGS Taiwan Ltd.
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Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Laipac Technology Inc.
 55 West Beaver Creek Rd., Unit 1, Richmond Hill, Ontario, L4B 1K5,
 Canada

Equipment Under Test: S-911 Personal Locator

FCC ID Number: TET-S911LOCATOR

Brand Name: S-911 Personal Locator

Model No.: S-911 205/206

Model Difference: N/A

File Number: ER/2005/80021

Date of test: Sep. 01, 2005 ~ May. 29, 2006

Date of EUT Received: Sep. 01, 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: Alex Hsieh *Date* May. 30, 2006

Alex Hsieh

Prepared By: Gigi yeh *Date* May. 30, 2006

Gigi Yeh

Approved By Vincent Su *Date* May. 30, 2006

Vincent Su

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Version

Version No.	Date
00	May. 30, 2006

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Table of Contents

1. GENERAL INFORMATION 6

1.1 Product Description 6

1.2 Related Submittal(s) / Grant (s) 7

1.3 Test Methodology 7

1.4 Test Facility 7

1.5 Special Accessories 7

1.6 Equipment Modifications 7

2. SYSTEM TEST CONFIGURATION 8

2.1 EUT Configuration 8

2.2 EUT Exercise 8

2.3 Test Procedure 8

2.4 Configuration of Tested System 9

3. SUMMARY OF TEST RESULTS 10

4. DESCRIPTION OF TEST MODES 10

5. RF POWER OUTPUT MEASUREMENT 11

5.1 Standard Applicable 11

5.2 Test Set-up: 11

5.3 Measurement Procedure 11

5.4 Measurement Equipment Used: 12

5.5 Measurement Result 13

6. ERP, EIRP MEASUREMENT 14

6.1 Standard Applicable 14

6.2 Test SET-UP (Block Diagram of Configuration) 14

6.3 Measurement Procedure 16

6.4 Measurement Equipment Used: 17

6.5 Measurement Result 18

7. 99% OCCUPIED BANDWIDTH MEASUREMENT 20

7.1 Standard Applicable 20

7.2 Test Set-up: 20

7.3 Measurement Procedure 20

7.4 Measurement Equipment Used: 21

7.5 Measurement Result: 22

8. OUT OF BAND EMISSION AT ANTENNA TERMINALS 27

8.1 Standard Applicable 27

8.2 Test SET-UP 27

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8.3	Measurement Procedure.....	27
8.4	Measurement Equipment Used:.....	28
8.5	Measurement Result.....	29
9.	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	37
9.1	Standard Applicable	37
9.2	EUT Setup (Block Diagram of Configuration).....	37
9.3	Measurement Procedure.....	39
9.4	Measurement Equipment Used:.....	40
9.5	Measurement Result.....	40
10.	FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	47
10.1	Standard Applicable	47
10.2	Test Set-up:	47
10.3	Measurement Procedure.....	47
10.4	Measurement Equipment Used:.....	48
10.5	Measurement Result.....	49
11.	FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	50
11.1	Standard Applicable	50
11.2	Test Set-up:	50
11.3	Measurement Procedure.....	50
11.4	Measurement Equipment Used:.....	51
11.5	Measurement Result.....	52
12.	AC POWER LINE CONDUCTED EMISSION TEST	53
12.1	Standard Applicable	53
12.2	EUT Setup.....	53
12.3	Measurement Procedure.....	53
12.4	Measurement Equipment Used:.....	54
12.5	Measurement Result.....	54
	PHOTOGRPHS OF SET UP.....	59
	PHOTOGRPHS OF EUT.....	62

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1. GENERAL INFORMATION

1.1 Product Description

Product	S-911 Personal Locator	
Model Name	S-911 205/206	
Model Difference:	Variant in exterior looks.	
Trade Name	S-911 Personal Locator	
Frequency Range and Power	GSM 850, TX: 824 MHz – 849MHz	33 dBm
	GSM 1900, TX:1850MHz-1910MHz	30 dBm
Hardware Version	Vers. 2.60	
Software Version	Vers. 1.32	
Type of Emission	300KGXW	
Power Supply	3.6Vdc Li-Ion Battery Pack or 5.5Vdc by AC/DC power adapter Model Number: SME-2B	

The EUT is compliance with Bluetooth Standard.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: TET-S911LOCATOR filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

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: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 & 10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by CNLA (0513).

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

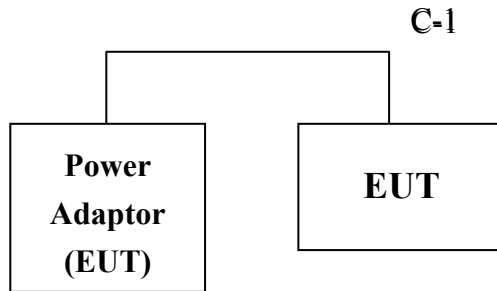


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.	Data Cable	Power Cord
1.	Adaptor	Personal Locator	SME-2B	N/A	Z3062680P	shielded	Non-shielded

3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a) §24.232(a)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (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.

5. RF POWER OUTPUT MEASUREMENT

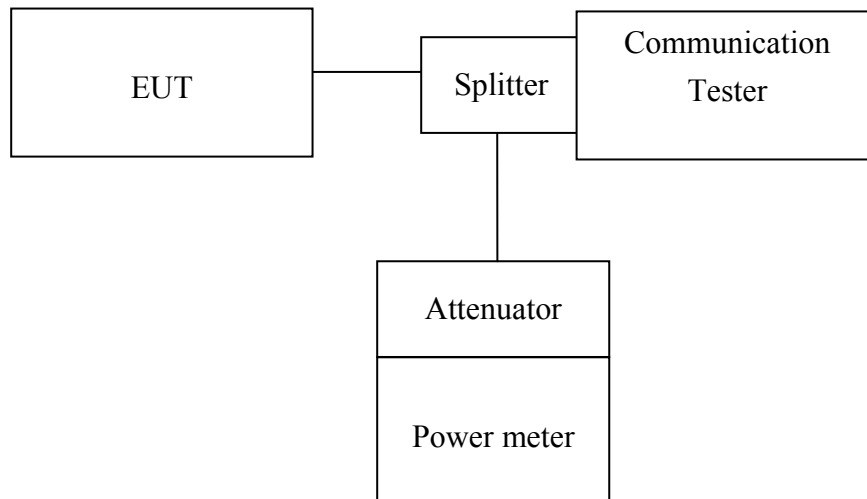
5.1 Standard Applicable

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.

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	7405A	US41160416	06/28/2005	06/29/2006
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
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

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5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Offset (dB)	Power (dBm)
GSM 850	824.20	128	9.90	22.60	32.50
	836.60	190	10.00	22.60	32.60
	848.80	251	9.80	22.60	32.40

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Offset (dB)	Power (dBm)
PCS 1900	1850.20	512	11.30	18.40	29.70
	1880.00	661	11.40	18.40	29.80
	1909.80	810	11.40	18.40	29.80

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

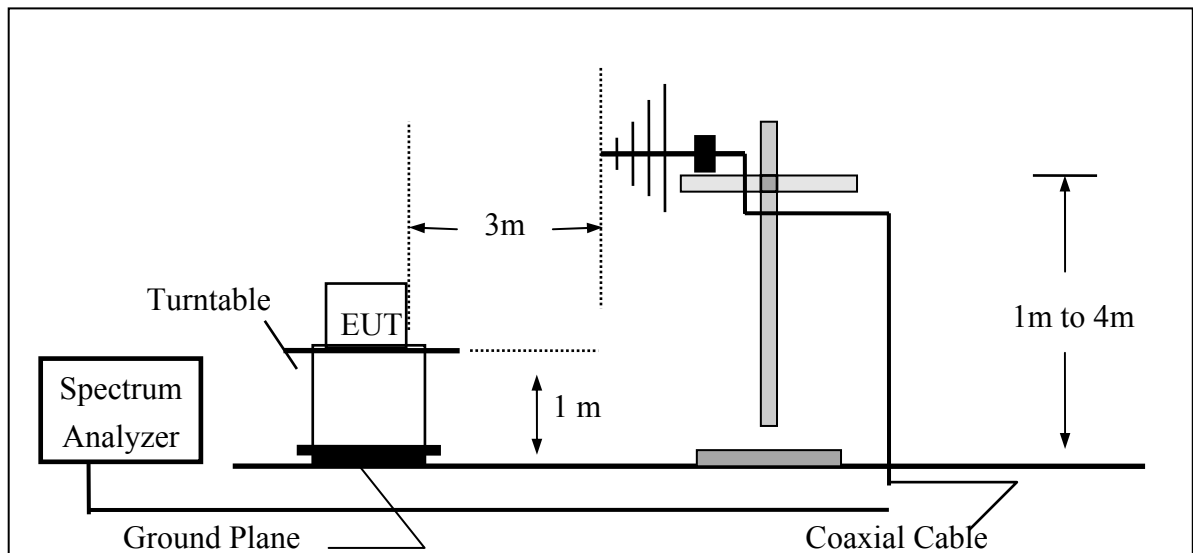
According to FCC §2.1046

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

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

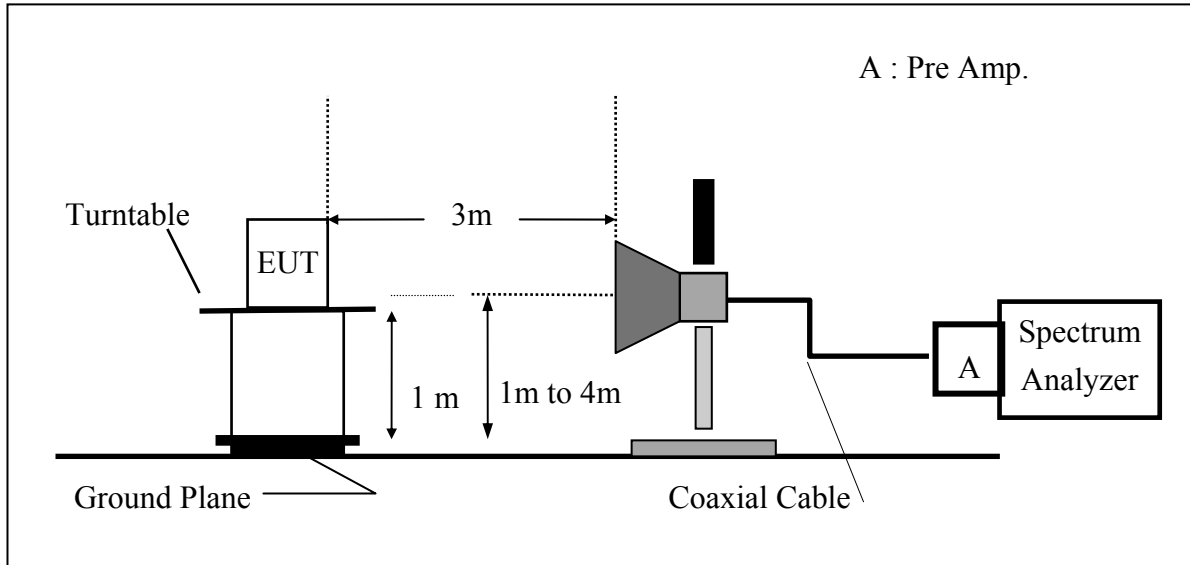
6.2 Test SET-UP (Block Diagram of Configuration)

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

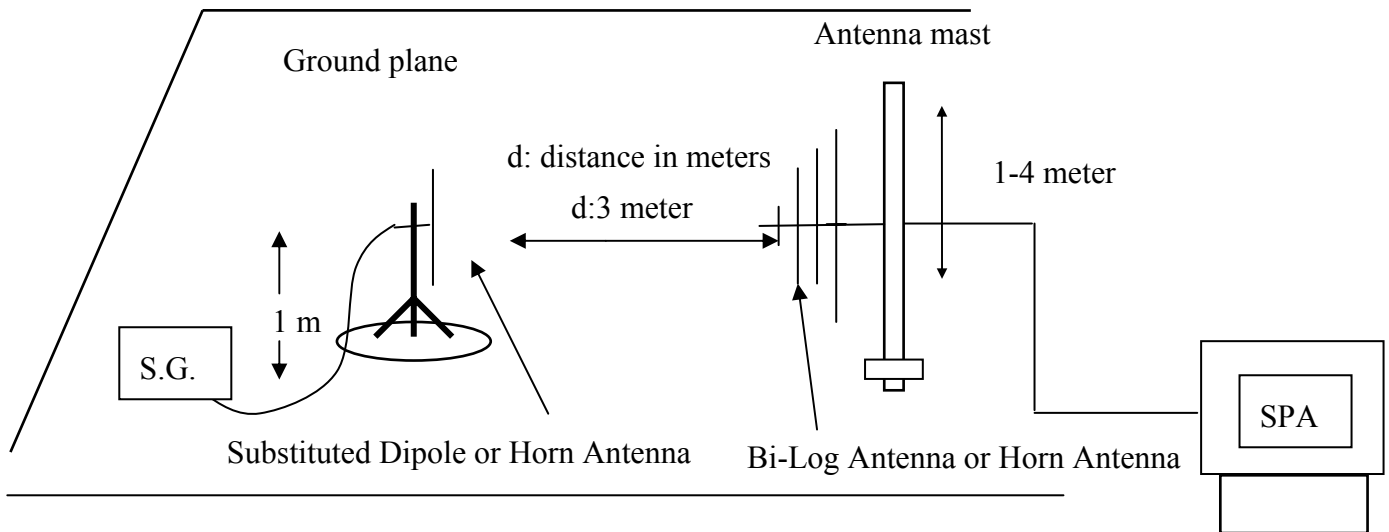


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



6.3 Measurement Procedure

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

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

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

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

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

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

6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/26/2006
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	02/26/2006	02/25/2007
Signal Generator	R&S	SMR40	100210	02/09/2006	02/10/2007
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
Site NSA	SGS	10m Open-Site	N/A	10/02/2005	10/01/2006
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2005	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2005	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2005	08/15/2006

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6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	117.40	30.08	-7.87	3.64	18.56	38.45
				H	123.86	36.21	-7.87	3.64	24.69	38.45
			E1	V	121.94	34.62	-7.87	3.64	23.10	38.45
				H	121.62	33.96	-7.87	3.64	22.45	38.45
			E2	V	118.14	30.82	-7.87	3.64	19.30	38.45
				H	121.77	34.12	-7.87	3.64	22.60	38.45
	836.60	190	H	V	119.76	32.73	-7.88	3.70	21.16	38.45
				H	126.43	39.09	-7.88	3.70	27.52	38.45
			E1	V	123.39	36.36	-7.88	3.70	24.79	38.45
				H	123.16	35.83	-7.88	3.70	24.25	38.45
			E2	V	125.40	38.37	-7.88	3.70	26.80	38.45
				H	124.72	37.39	-7.88	3.70	25.81	38.45
	848.80	251	H	V	118.14	31.40	-7.88	3.75	19.77	38.45
				H	121.77	34.75	-7.88	3.75	23.12	38.45
			E1	V	124.18	37.44	-7.88	3.75	25.82	38.45
				H	125.51	38.49	-7.88	3.75	26.86	38.45
			E2	V	125.22	38.48	-7.88	3.75	26.85	38.45
				H	126.56	39.54	-7.88	3.75	27.91	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

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	111.44	4.48	9.90	5.41	8.97	33.00
				H	127.72	20.83	9.90	5.41	25.32	33.00
			E1	V	124.92	17.96	9.90	5.41	22.45	33.00
				H	122.52	15.63	9.90	5.41	20.12	33.00
			E2	V	123.45	16.49	9.90	5.41	20.98	33.00
				H	126.17	19.28	9.90	5.84	23.34	33.00
	1880.00	661	H	V	120.42	13.47	9.99	5.46	18.00	33.00
				H	127.57	20.70	9.99	5.46	25.23	33.00
			E1	V	123.37	16.42	9.99	5.46	20.95	33.00
				H	124.43	17.56	9.99	5.46	22.09	33.00
			E2	V	122.18	15.23	9.99	5.46	19.76	33.00
				H	124.85	17.98	9.99	5.46	22.51	33.00
	1909.80	810	H	V	120.07	13.13	10.08	5.51	17.70	33.00
				H	126.74	19.89	10.08	5.51	24.45	33.00
			E1	V	123.05	16.11	10.08	5.51	20.68	33.00
				H	124.17	17.32	10.08	5.51	21.88	33.00
			E2	V	122.44	15.50	10.08	5.51	20.07	33.00
				H	124.32	17.47	10.08	5.51	22.03	33.00

Remark :

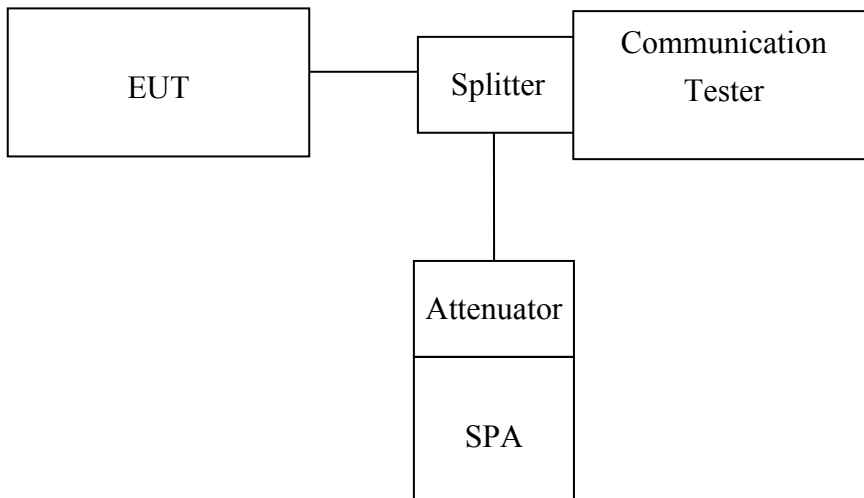
- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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.

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	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
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
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

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7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2335
	836.60	190	0.2339
	848.80	251	0.2331

EUT Mode	Frequency (MHz)	CH	99 % Bandwidth (MHz)
PCS 1900	1850.20	512	0.2304
	1880.00	661	0.2282
	1909.80	810	0.2304

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Figure 7-1: GSM 850 Channel Low

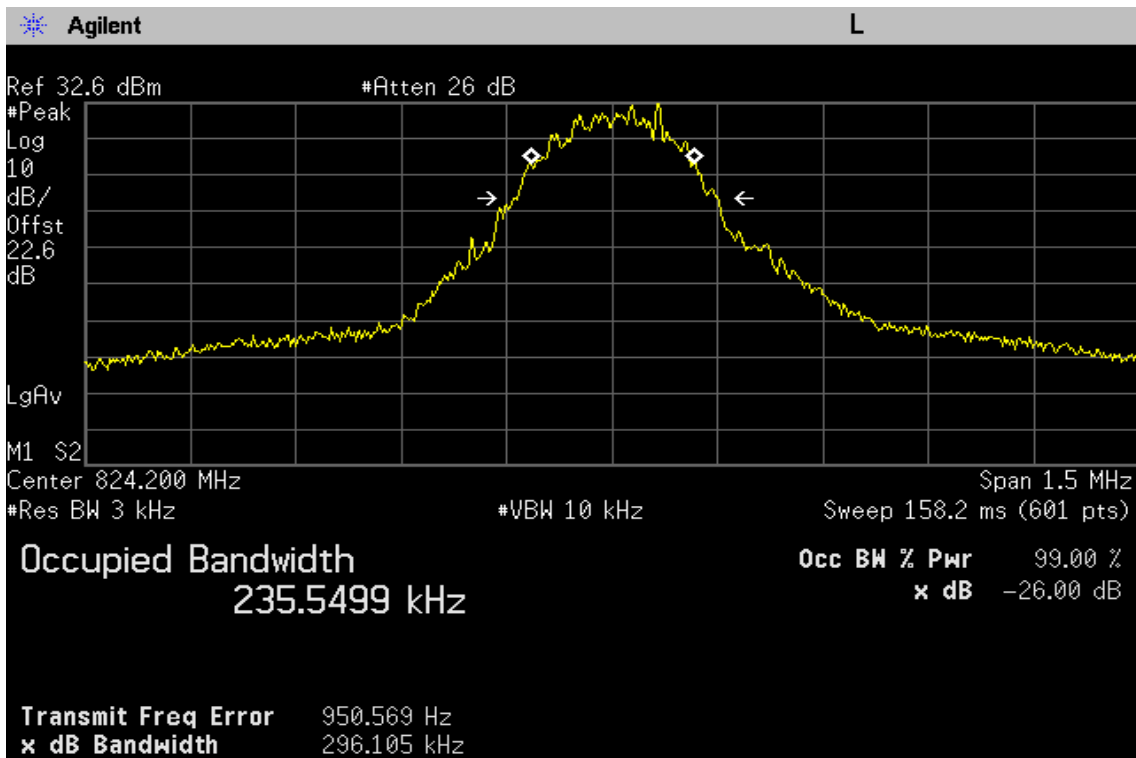
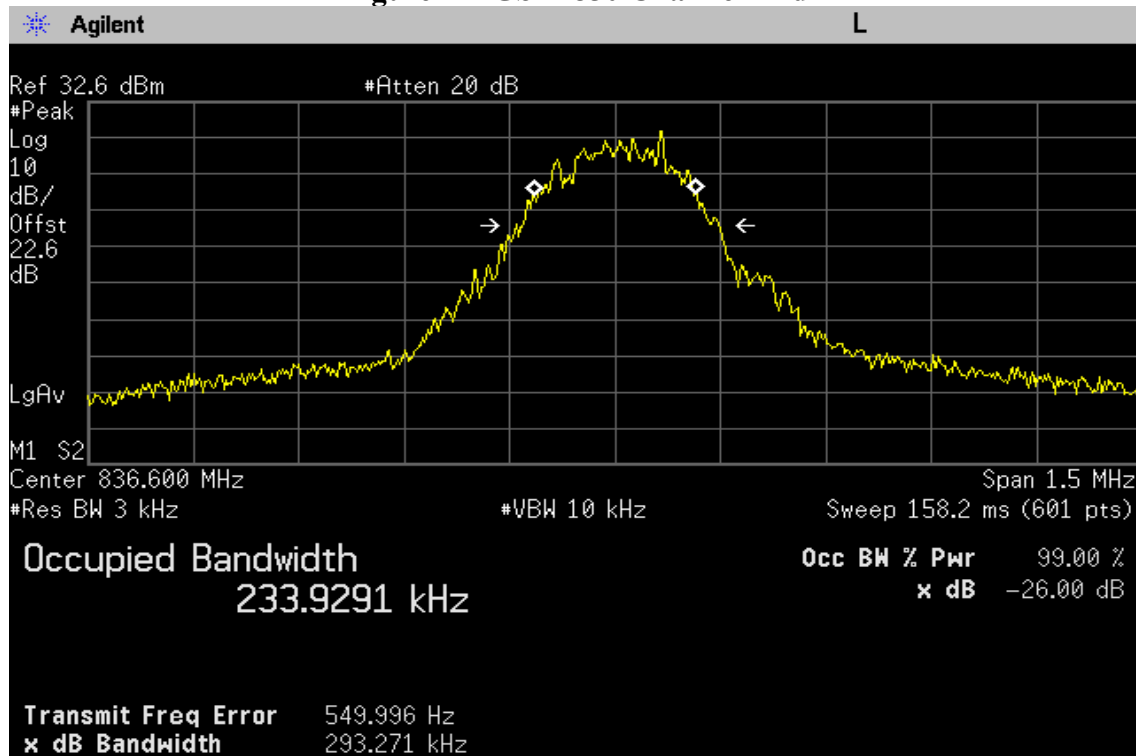
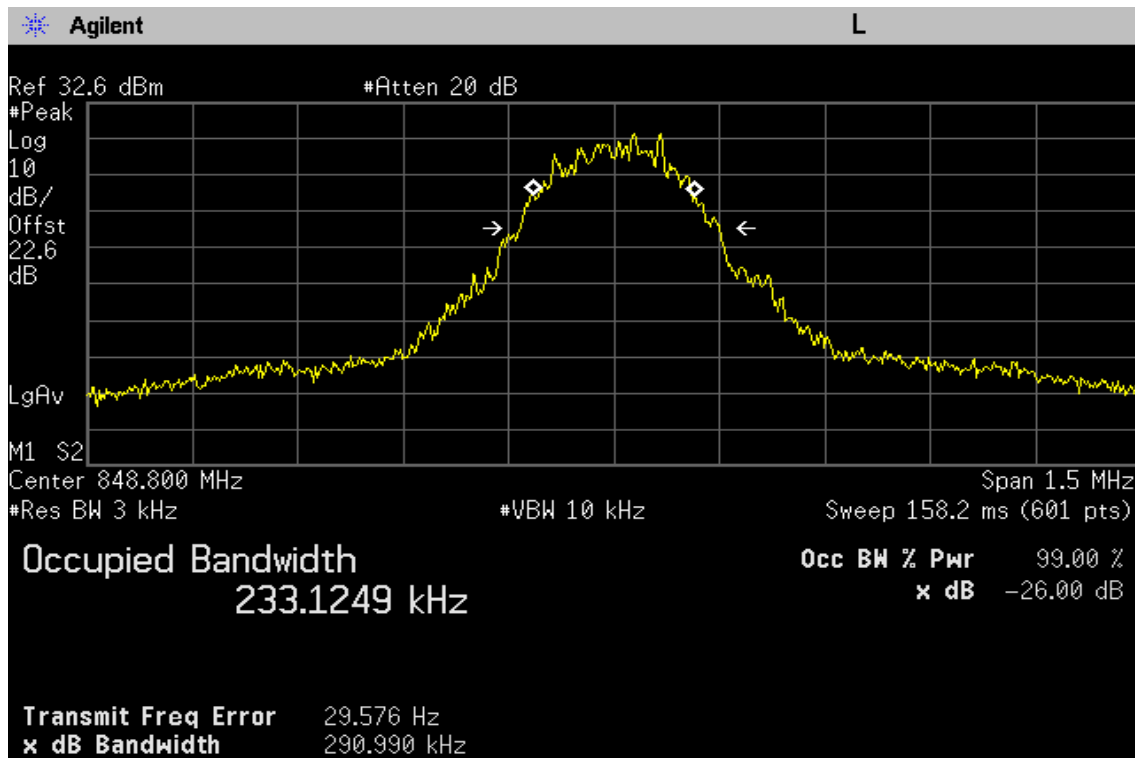


Figure 7-2 GSM 850 Channel Mid



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Figure 7-3: GSM 850 Channel High



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Figure 7-4: GSM 1900 Channel Low

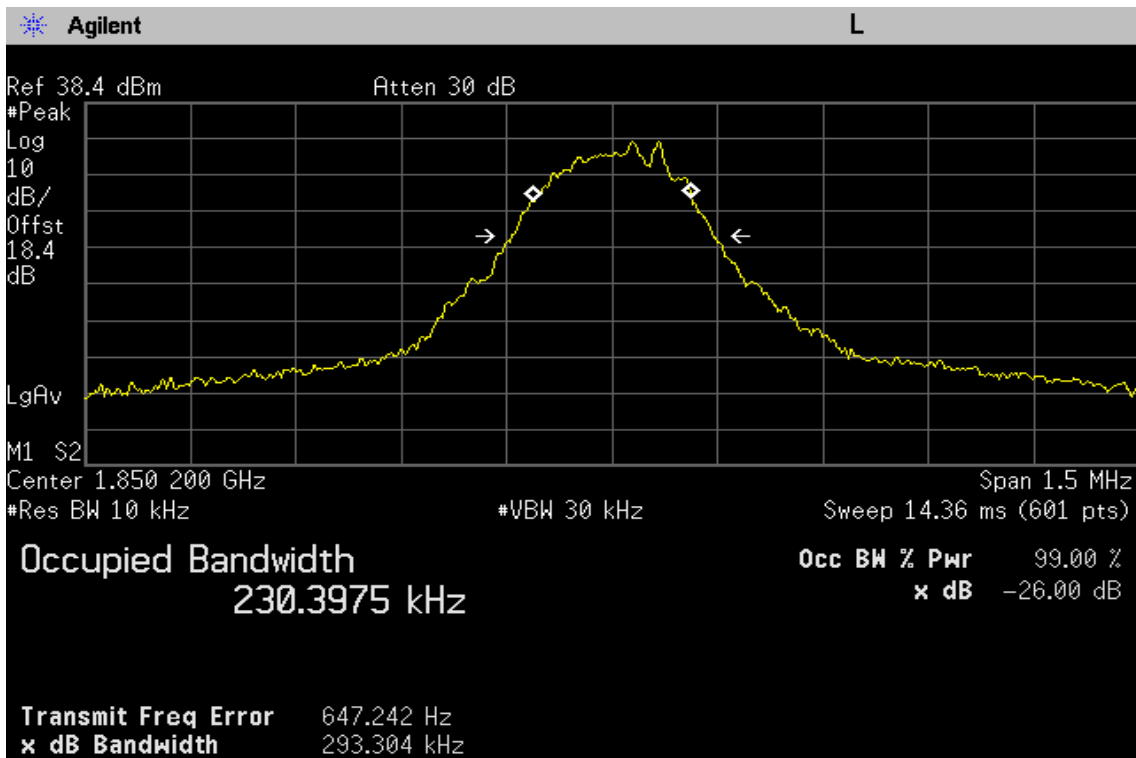
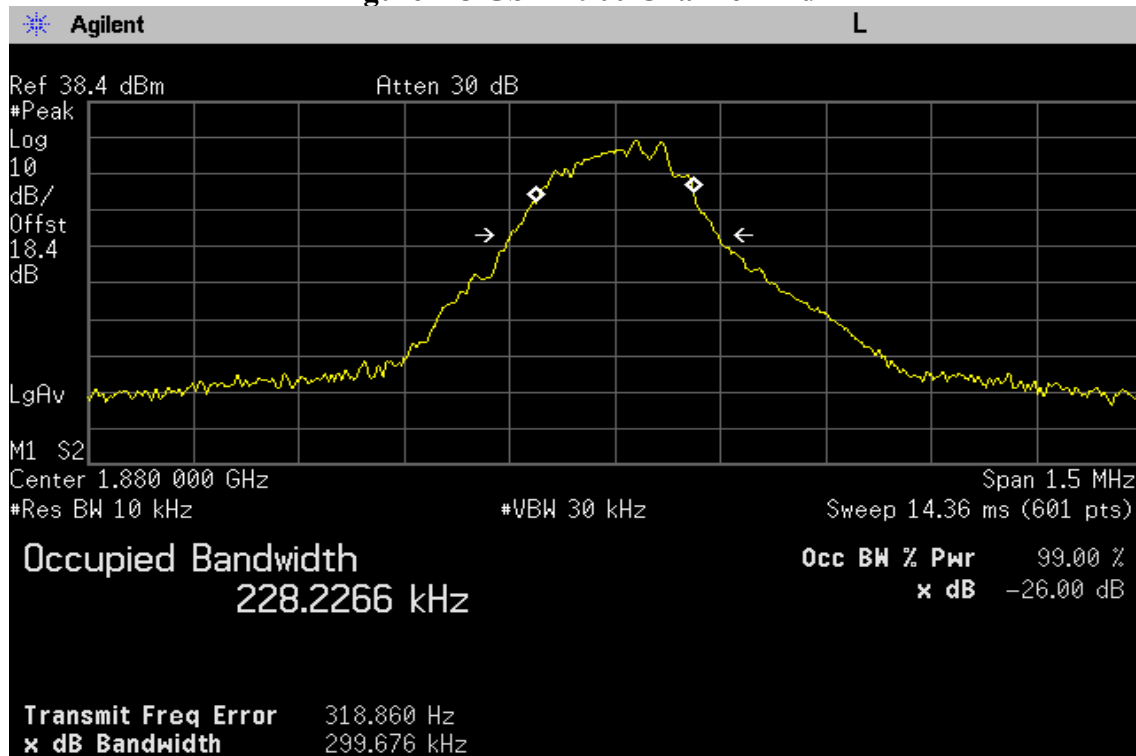
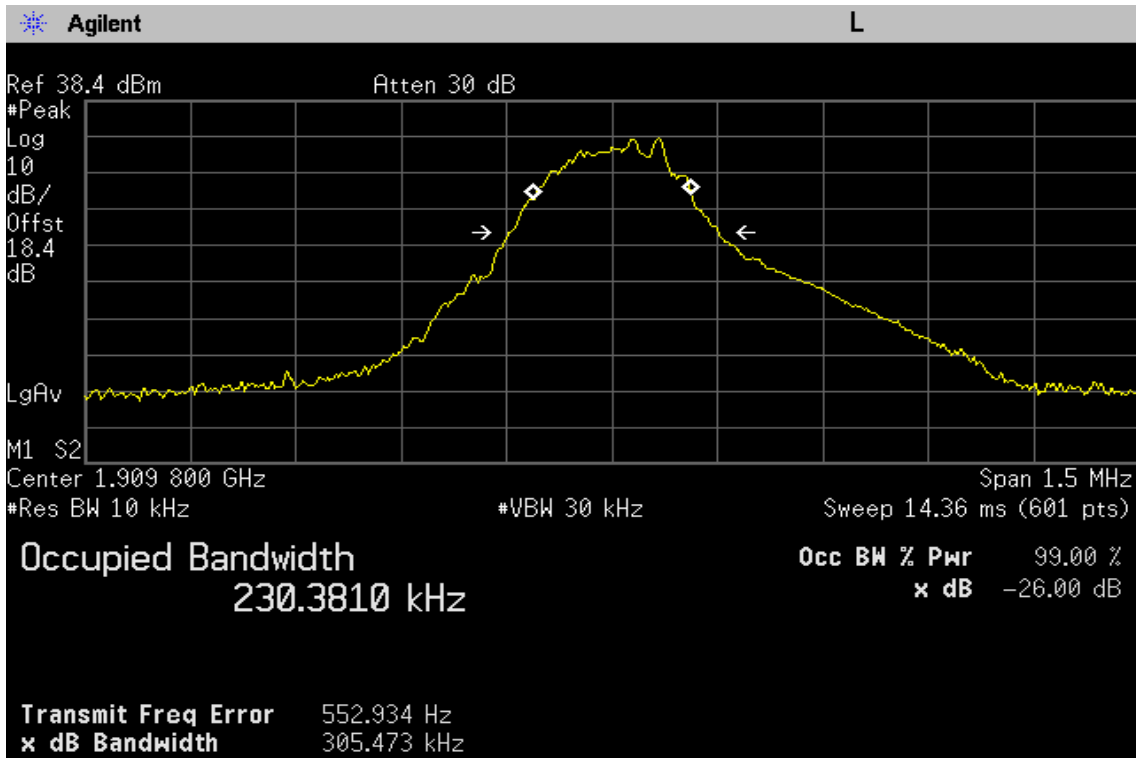


Figure 7-5 GSM 1900 Channel Mid



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Figure 7-6: GSM 1900 Channel High



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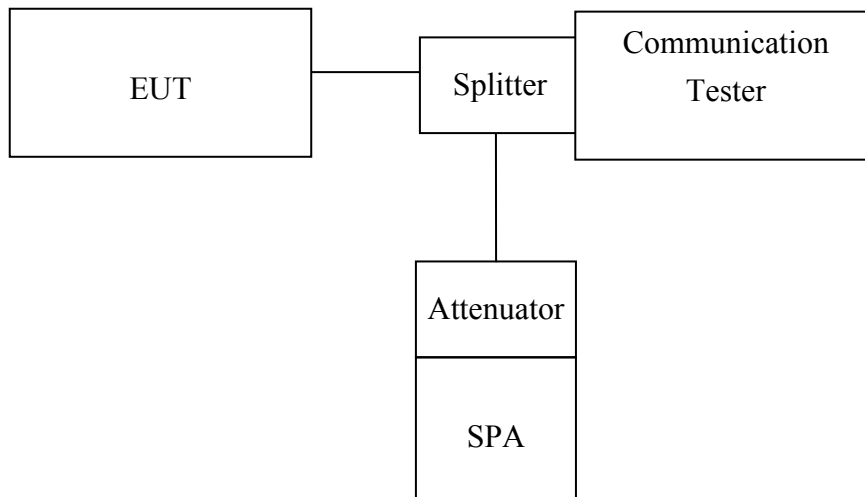
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

8.3 Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic.
Limit = -13dBm

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

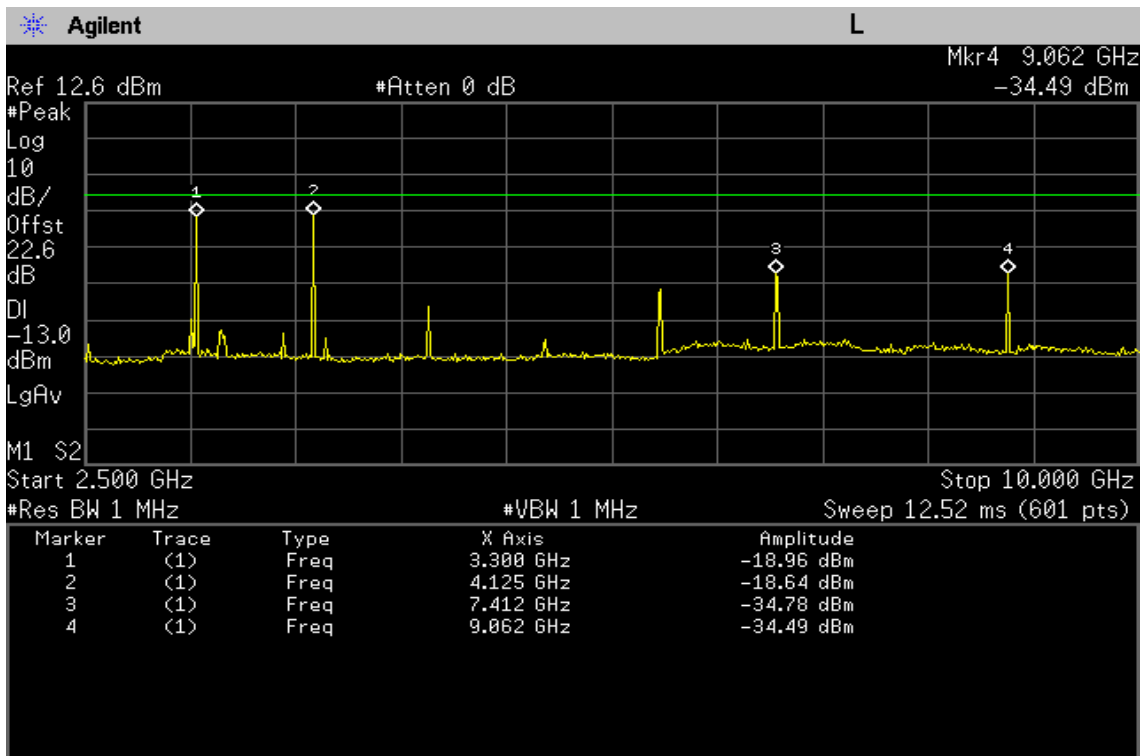
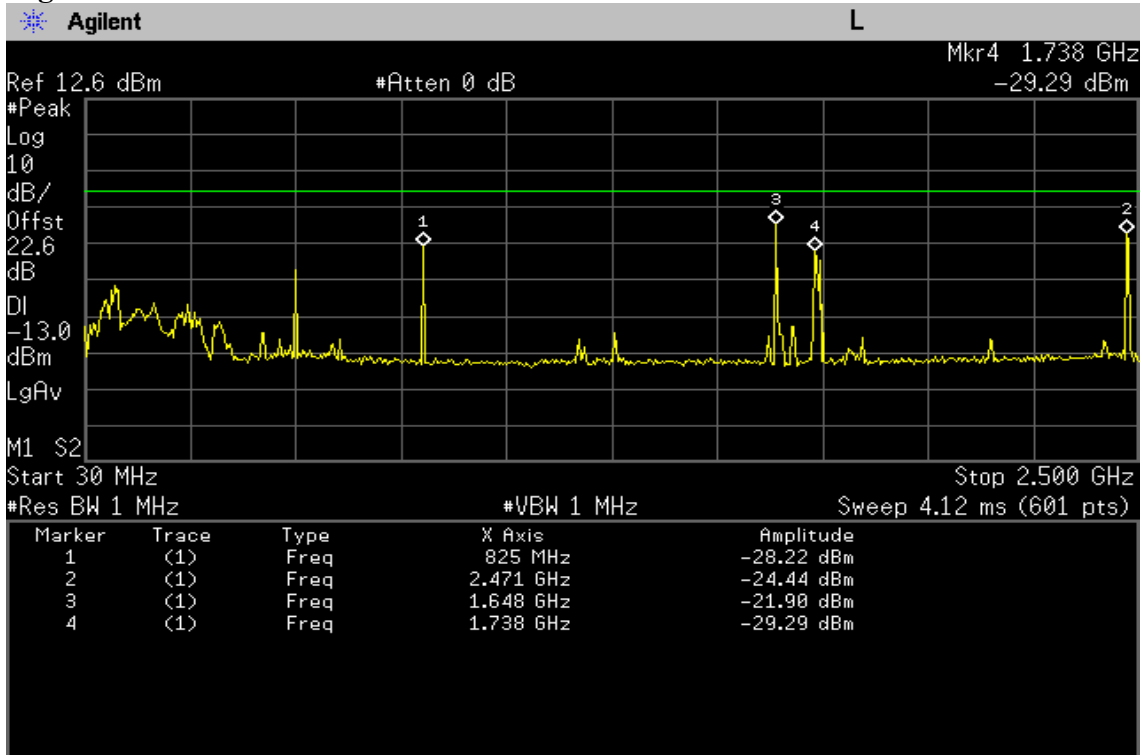
8.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
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
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

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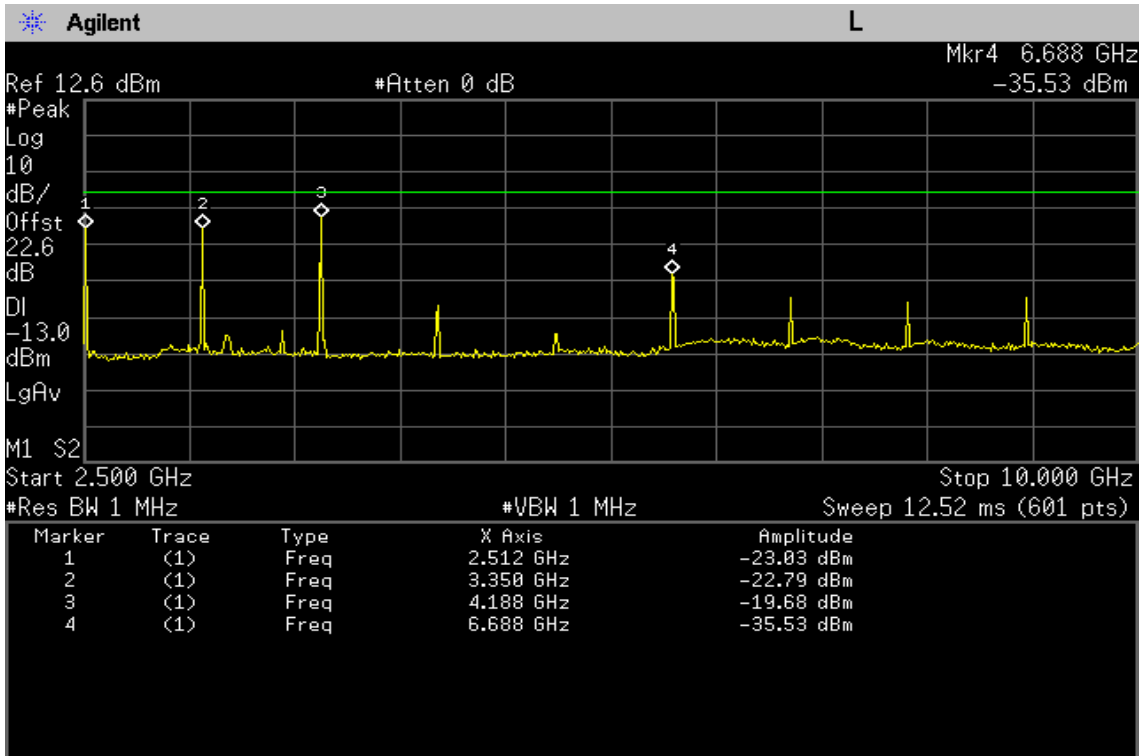
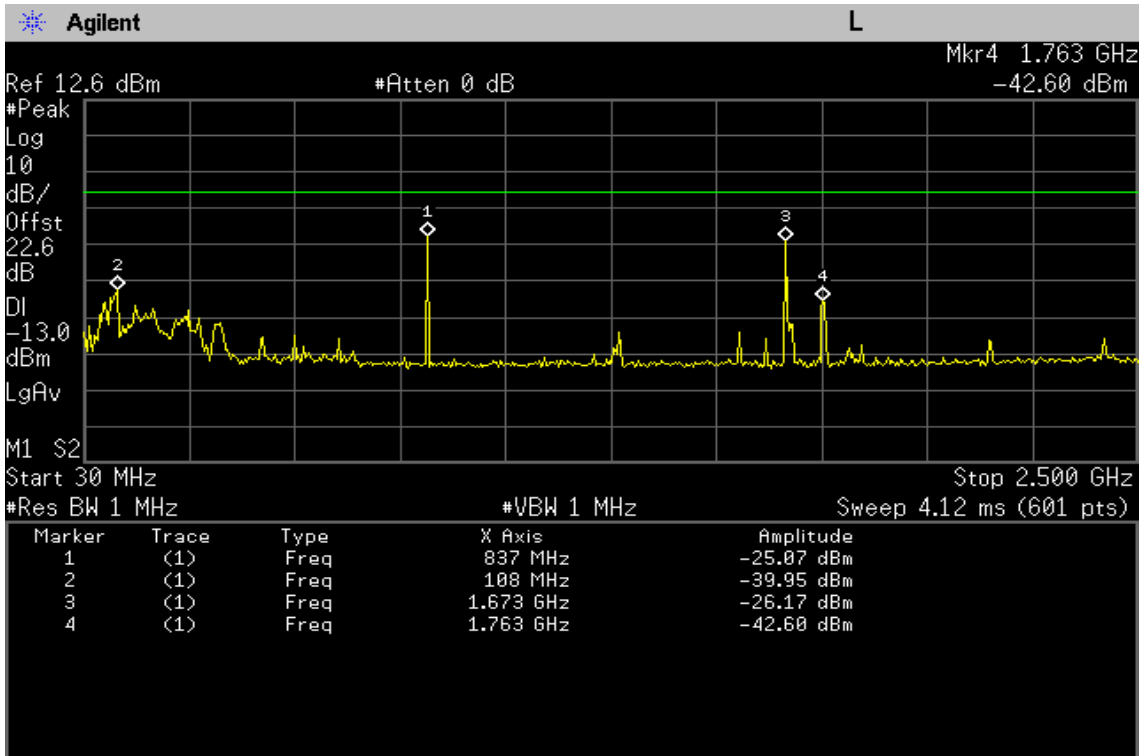
8.5 Measurement Result

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



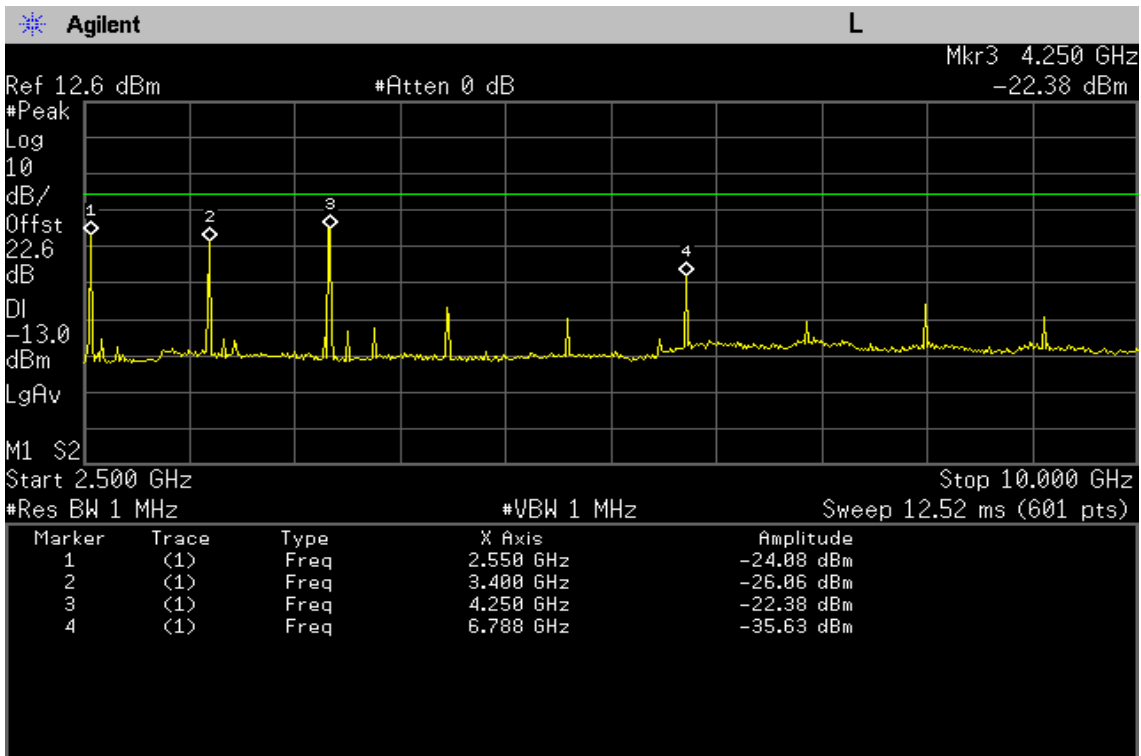
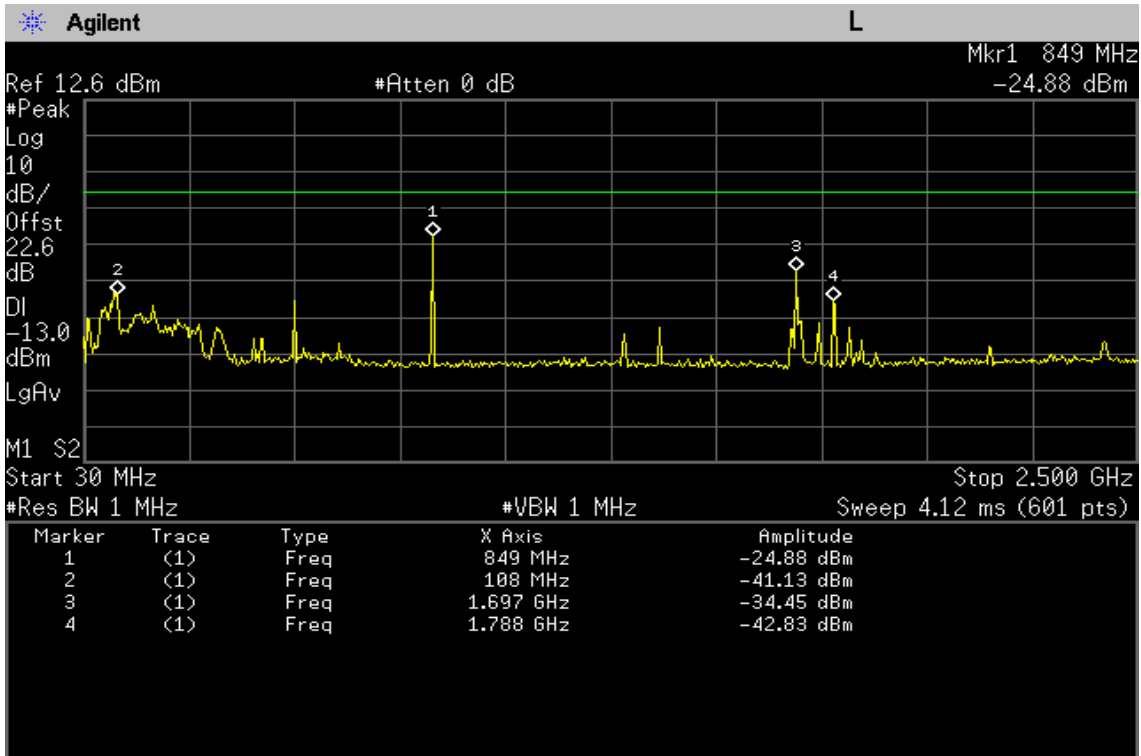
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Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid



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



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

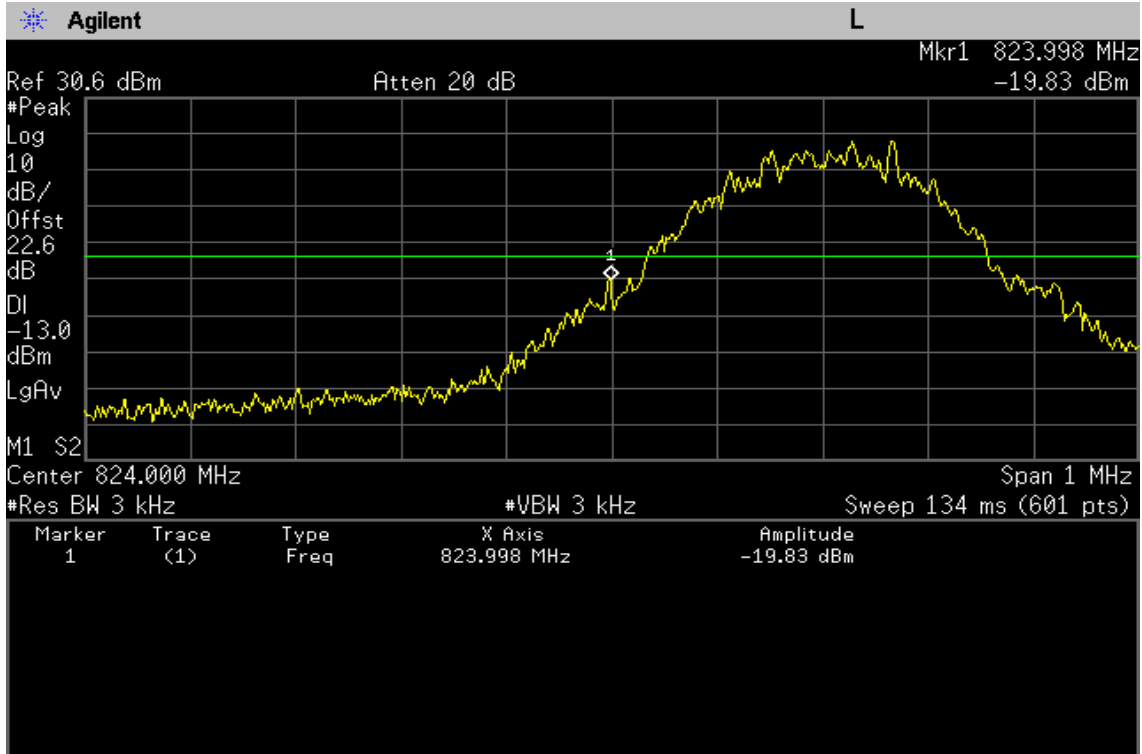
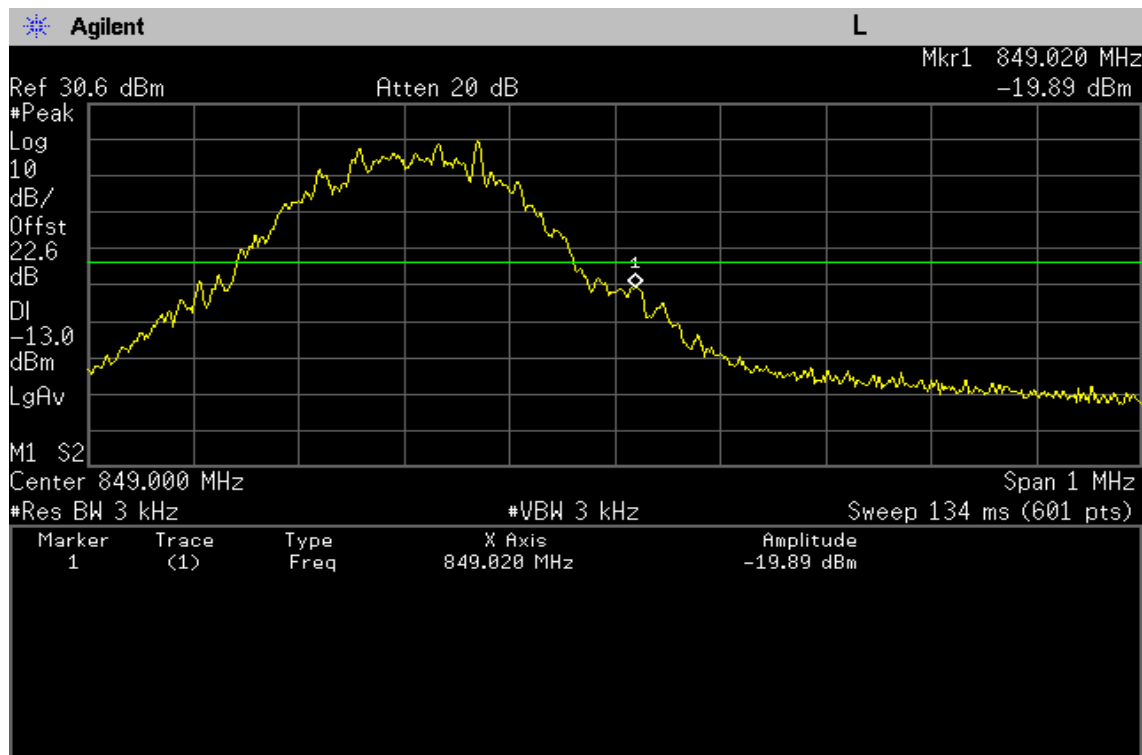
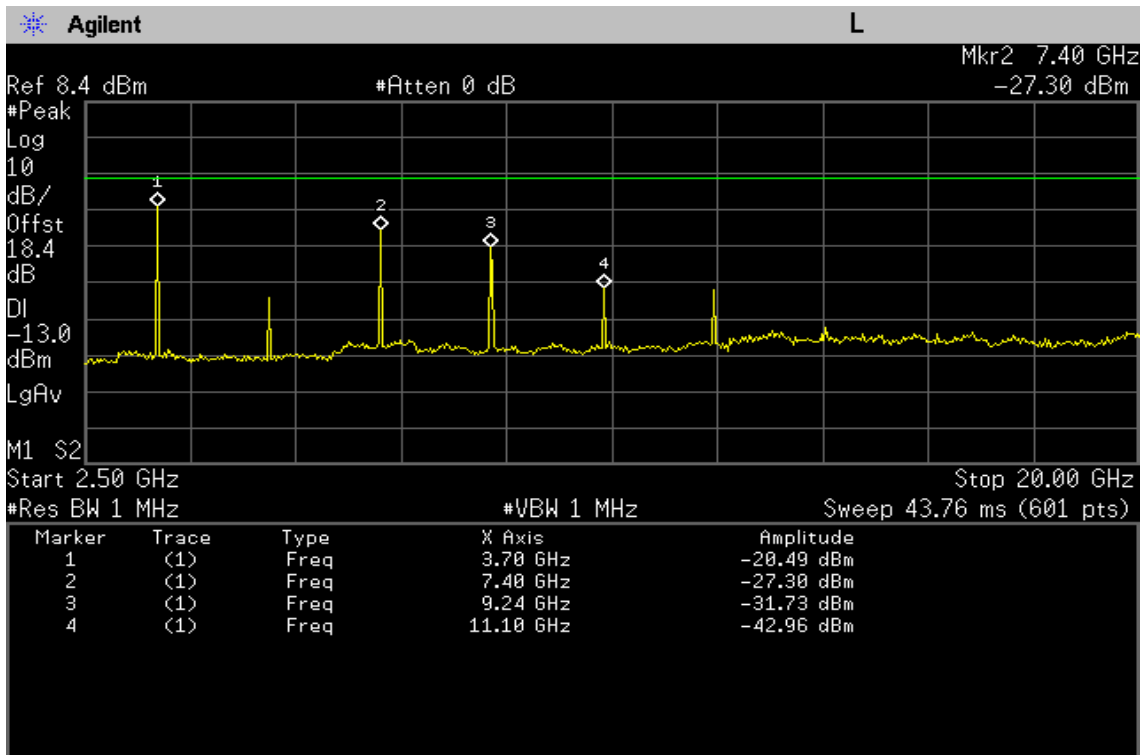
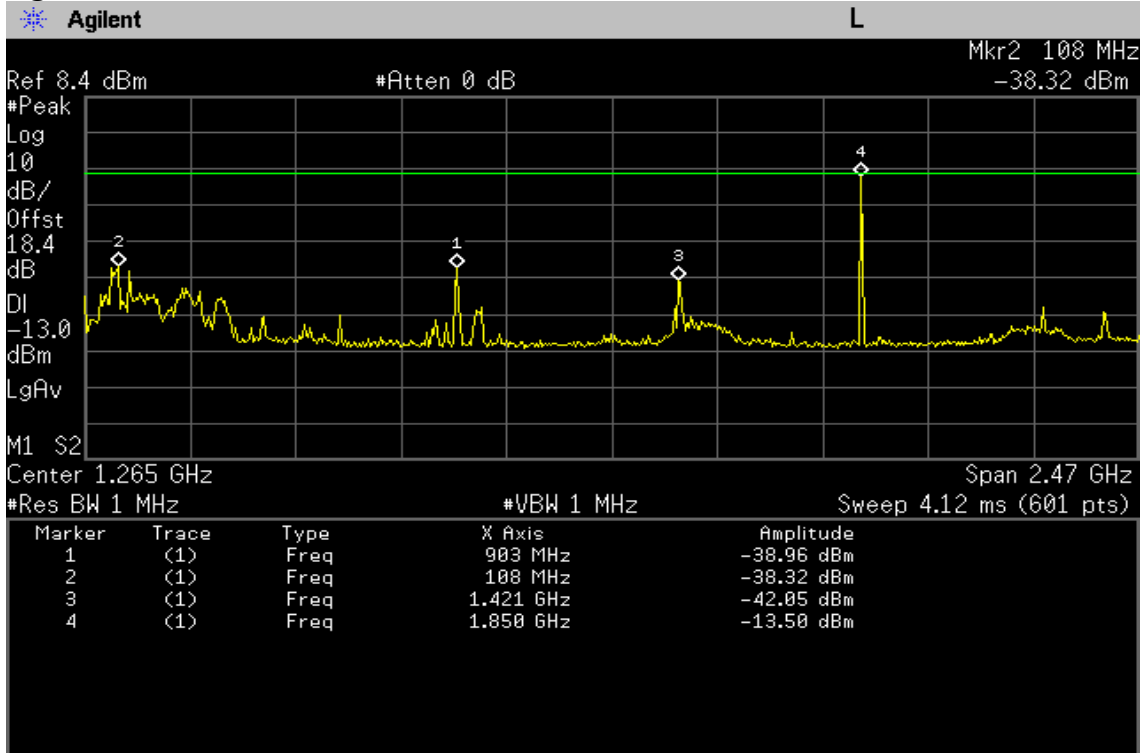


Figure 8-5: Band edge emission at antenna terminals – GSM 850 Channel Highest



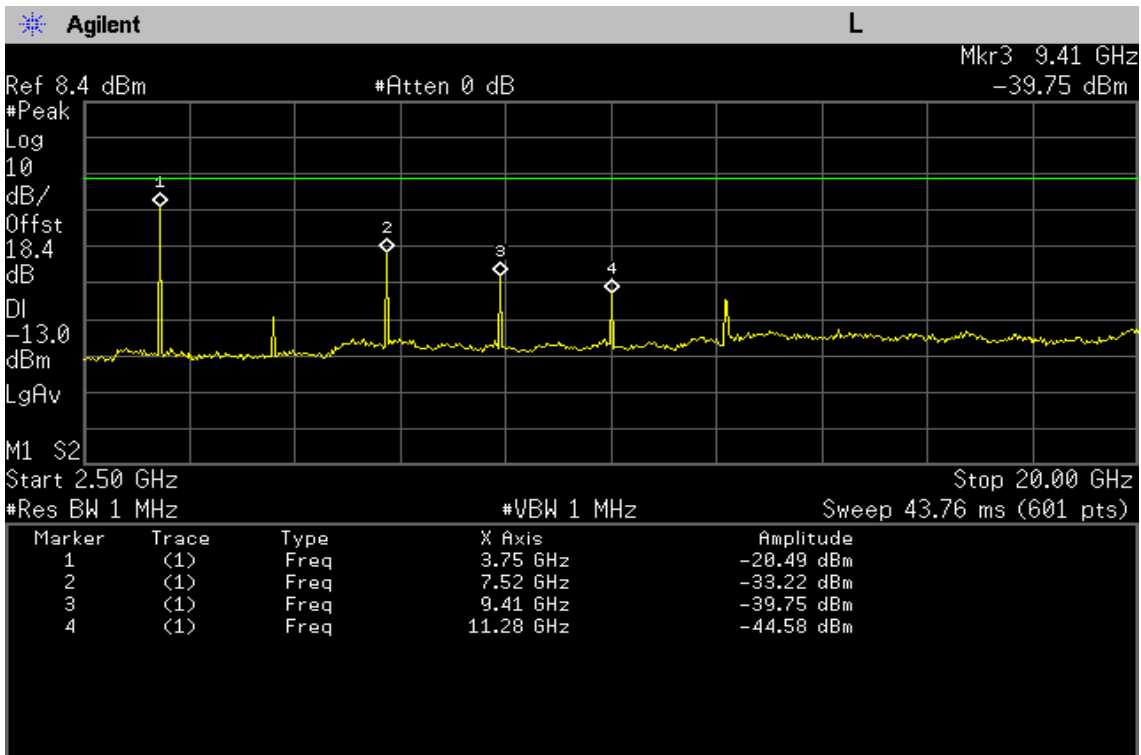
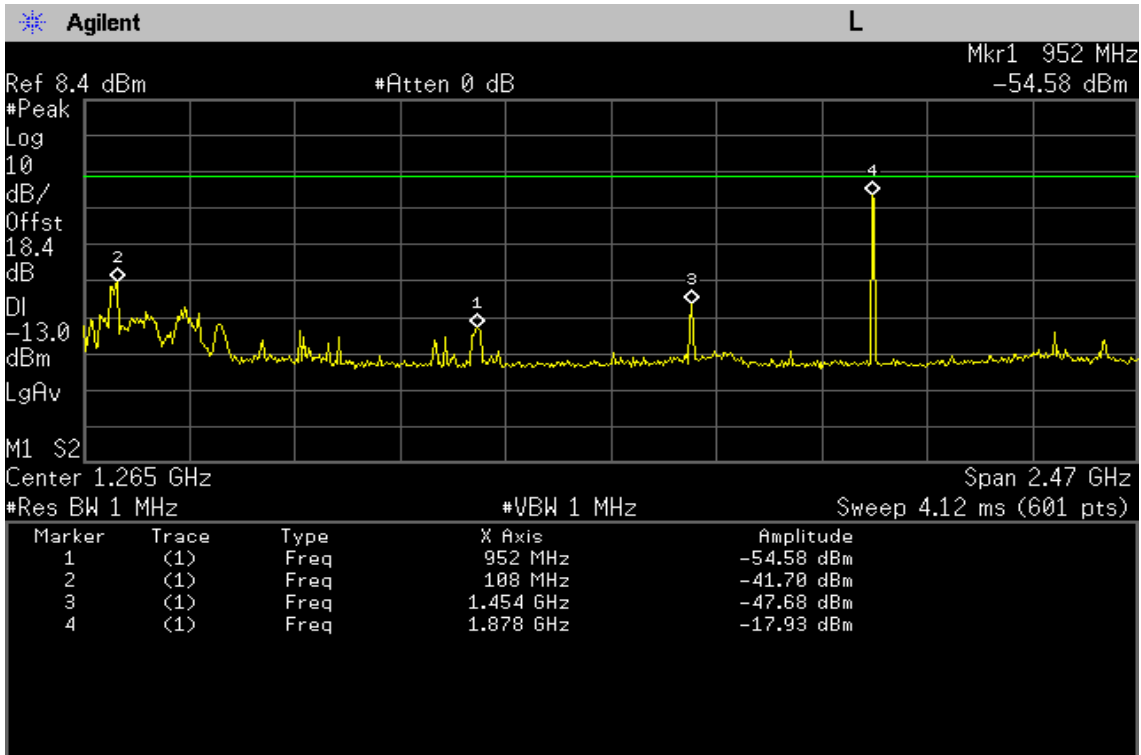
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Figure 8-6: Out of Band emission at antenna terminals– GSM 1900 Channel Lowest



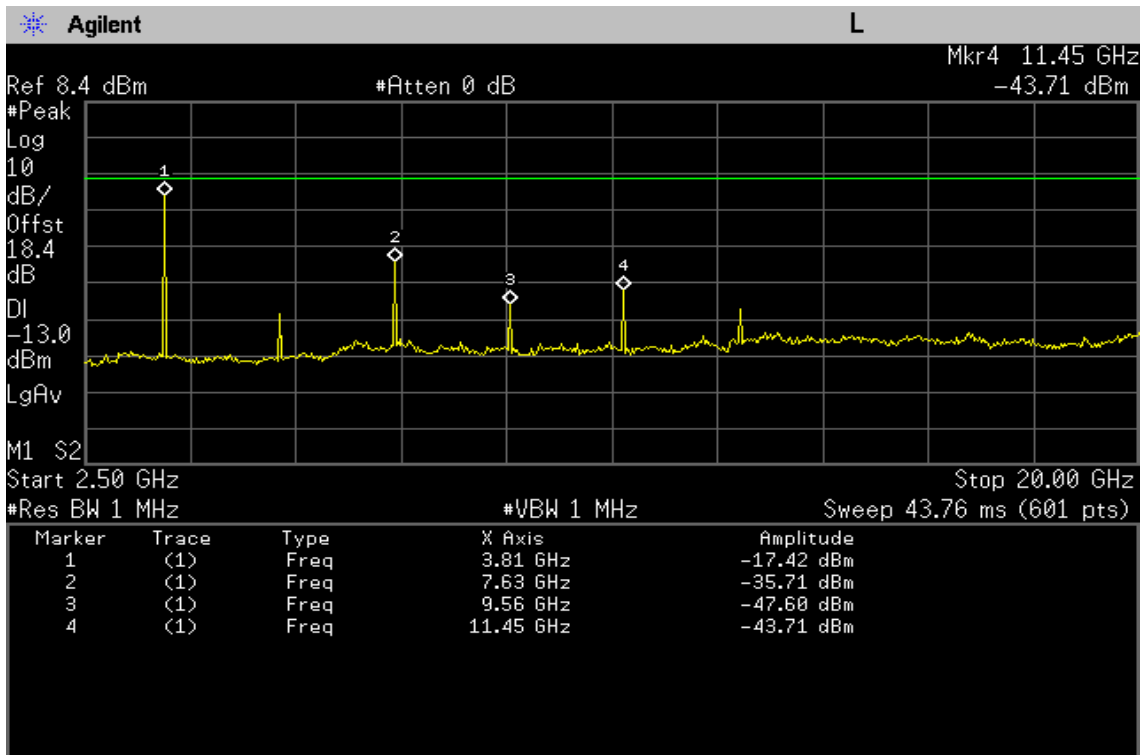
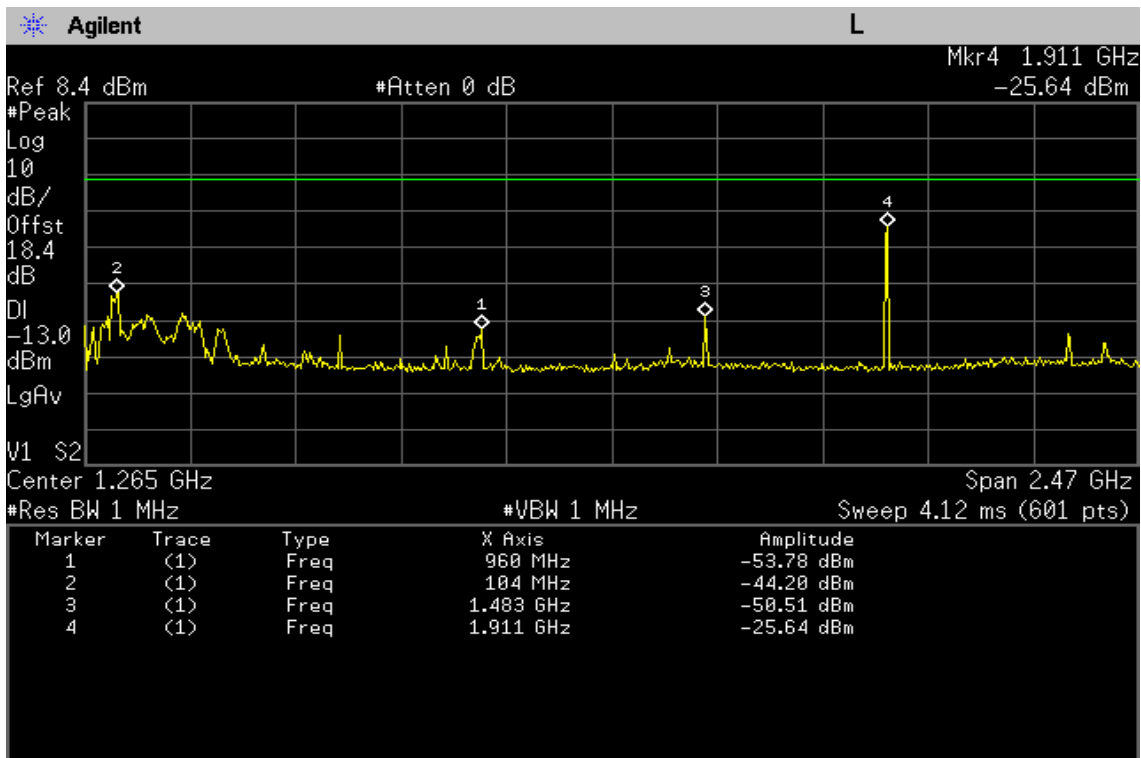
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Figure 8-7: Out of Band emission at antenna terminals –GSM 1900 Channel Mid



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



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Figure 8-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest

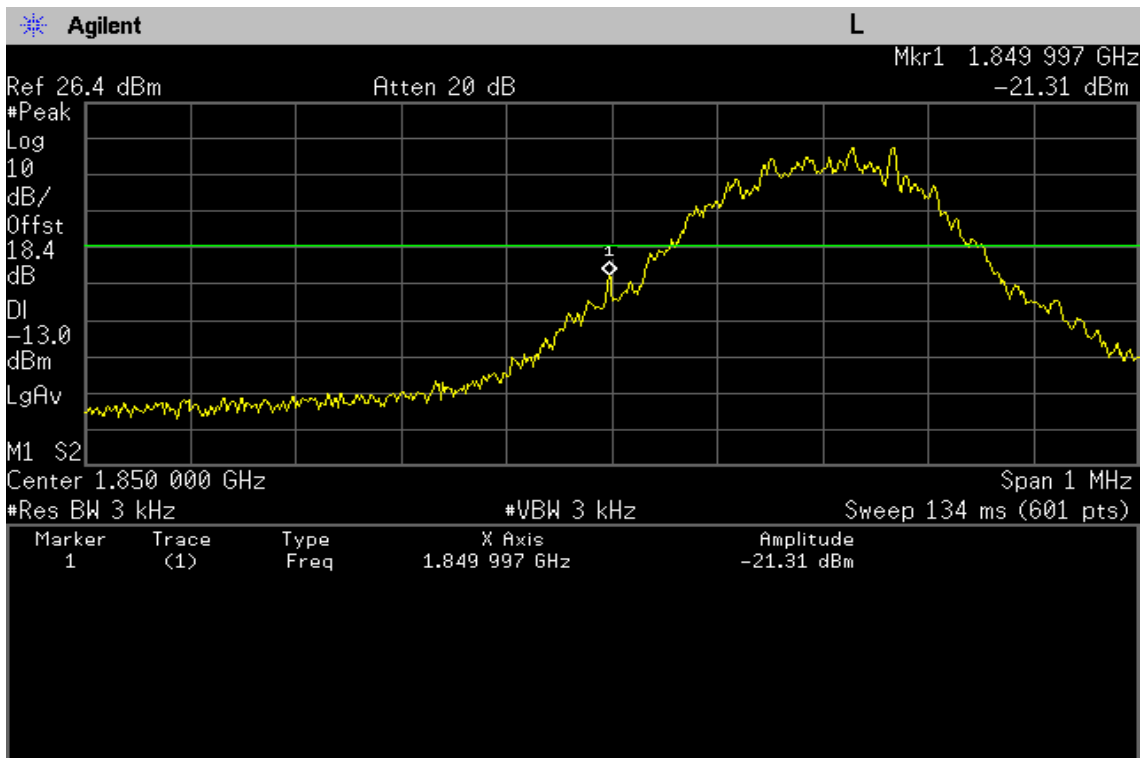
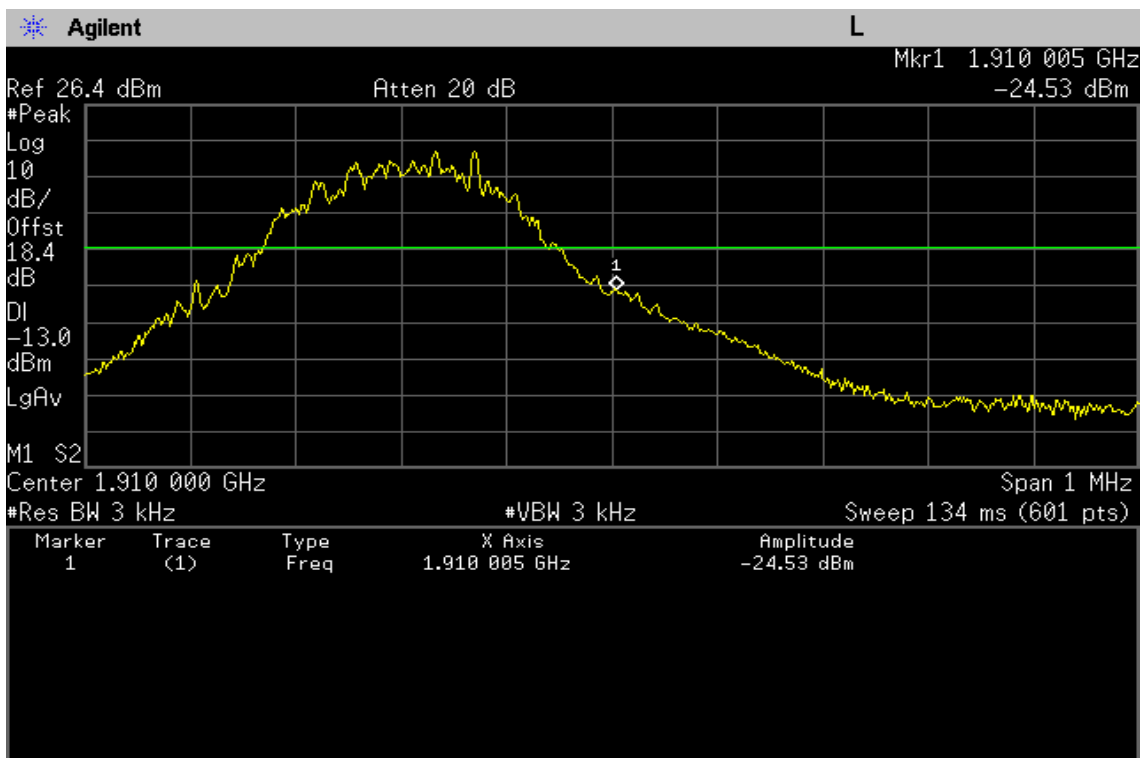


Figure 8-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

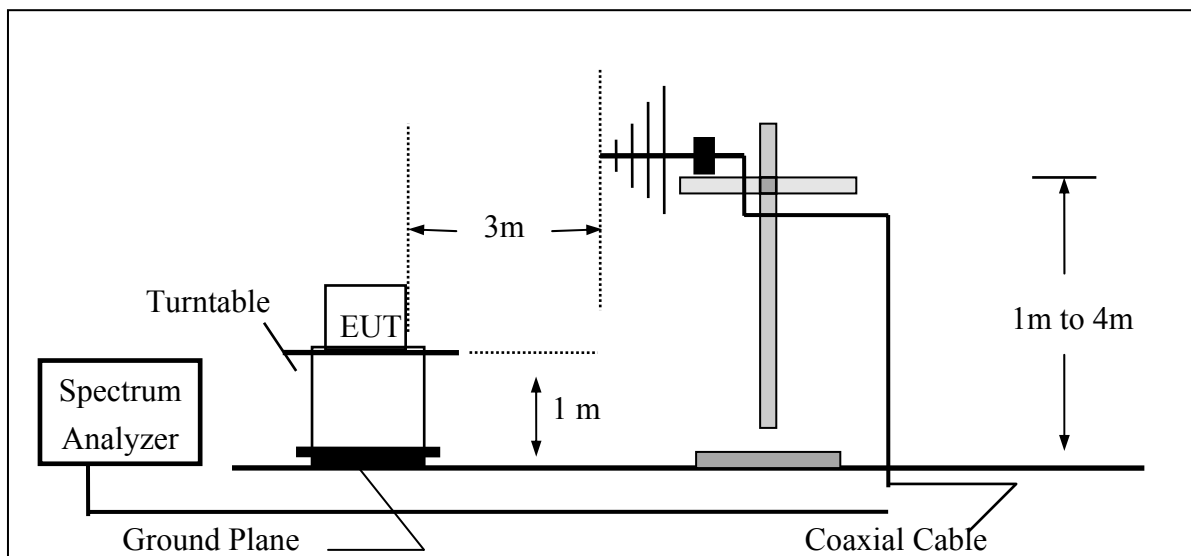
9.1 Standard Applicable

According to FCC §2.1053,

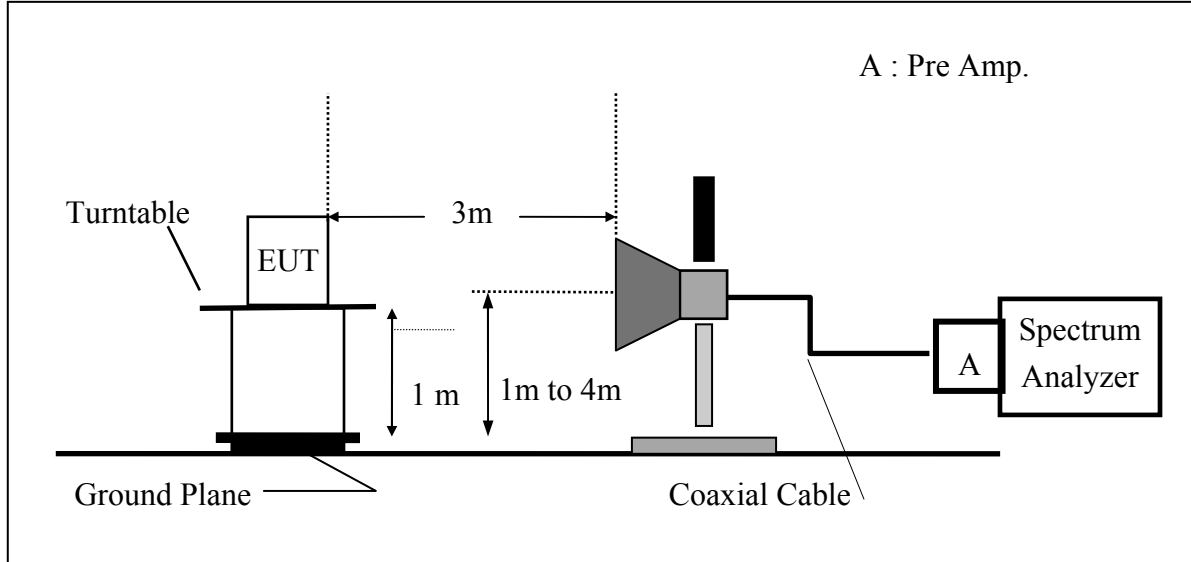
FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

9.2 EUT Setup (Block Diagram of Configuration)

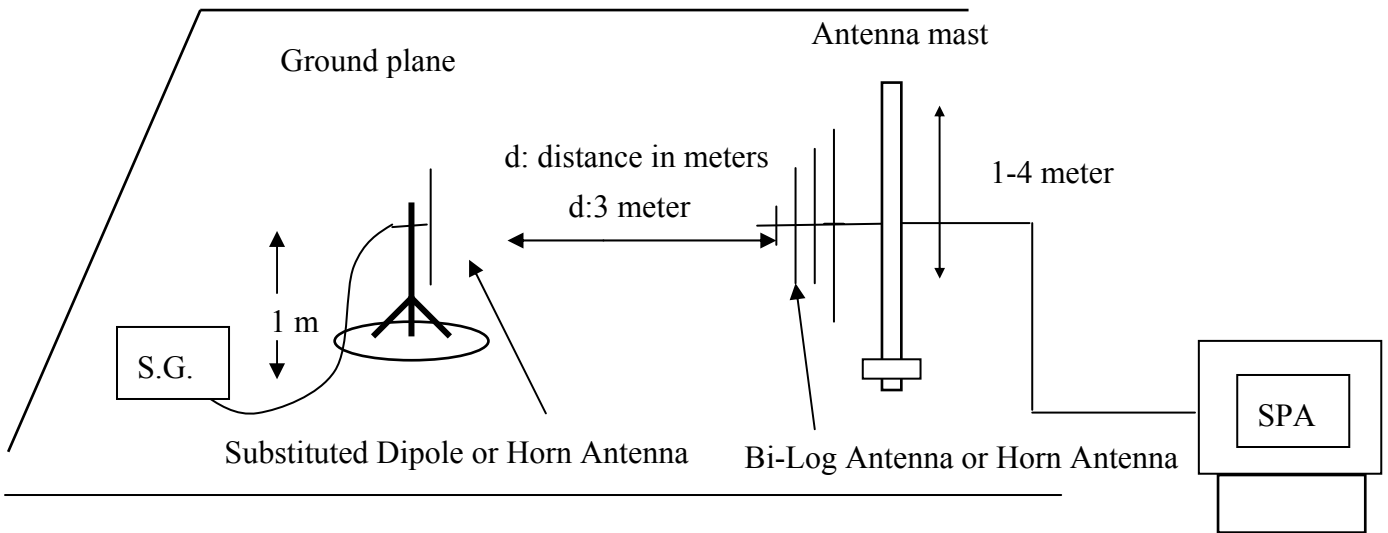
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(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.

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

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

9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/26/2006
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	02/26/2006	02/25/2007
Signal Generator	R&S	SMR40	100210	02/09/2006	02/10/2007
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
Site NSA	SGS	10m Open-Site	N/A	10/02/2005	10/01/2006
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2005	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2005	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2005	08/15/2006

9.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	: May 16, 2006
Fundamental Frequency	: 824.20 MHz	Test By:	: Alex
Temperature	: 25°C	Pol:	: Ver / Hor
Humidity	: 65%		

Freq.	SPA Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
130.88	50.53	V	-49.41	-7.78	1.37	-58.57	-13.00	-45.57
259.89	51.36	V	-49.12	-7.90	1.99	-59.00	-13.00	-46.00
824.00	74.09	V	-13.24	-7.87	3.64	-24.76	-13.00	-11.76
1648.40	72.18	V	-34.86	9.29	5.06	-30.63	-13.00	-17.63
3297.08	51.02	V	-51.56	12.17	7.26	-46.65	-13.00	-33.65
4121.35	60.37	V	-39.41	12.61	8.33	-35.12	-13.00	-22.12
4945.62	---	V	---	---	---	---	-13.00	---
5769.89	---	V	---	---	---	---	-13.00	---
6594.16	---	V	---	---	---	---	-13.00	---
7418.43	---	V	---	---	---	---	-13.00	---
8242.70	---	V	---	---	---	---	-13.00	---
133.79	48.83	H	-51.25	-7.79	1.39	-60.42	-13.00	-47.42
586.78	42.53	H	-49.27	-7.78	2.89	-59.95	-13.00	-46.95
824.00	72.68	H	-14.98	-7.87	3.64	-26.50	-13.00	-13.50
1648.40	74.17	H	-32.84	9.29	5.06	-28.61	-13.00	-15.61
4121.35	---	H	---	---	---	---	-13.00	---
4945.62	---	H	---	---	---	---	-13.00	---
5769.89	---	H	---	---	---	---	-13.00	---
6594.16	---	H	---	---	---	---	-13.00	---
7418.43	---	H	---	---	---	---	-13.00	---
8242.70	---	H	---	---	---	---	-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

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

Test Date: : May 16, 2006
 Test By: : Alex
 Pol: : Ver / Hor

Freq.	SPA Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
225.94	51.87	V	-49.50	-7.87	1.78	-59.15	-13.00	-46.15
586.78	40.76	V	-50.41	-7.78	2.89	-61.08	-13.00	-48.08
2509.80	78.20	V	-25.68	10.09	6.35	-21.94	-13.00	-8.94
3346.40	62.05	V	-40.51	12.28	7.29	-35.53	-13.00	-22.53
4183.00	60.05	V	-39.51	12.62	8.40	-35.29	-13.00	-22.29
5019.12	---	V	---	---	---	---	-13.00	---
5855.64	---	V	---	---	---	---	-13.00	---
6692.16	---	V	---	---	---	---	-13.00	---
7528.68	---	V	---	---	---	---	-13.00	---
8365.20	---	V	---	---	---	---	-13.00	---
218.18	56.97	H	-44.50	-7.86	1.72	-54.08	-13.00	-41.08
586.78	43.52	H	-48.28	-7.78	2.89	-58.96	-13.00	-45.96
2509.80	74.24	H	-29.63	10.09	6.35	-25.89	-13.00	-12.89
3346.40	62.35	H	-39.97	12.28	7.29	-34.99	-13.00	-21.99
4183.00	59.53	H	-39.89	12.62	8.40	-35.66	-13.00	-22.66
5019.12	---	H	---	---	---	---	-13.00	---
5855.64	---	H	---	---	---	---	-13.00	---
6692.16	---	H	---	---	---	---	-13.00	---
7528.68	---	H	---	---	---	---	-13.00	---
8365.20	---	H	---	---	---	---	-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

Operation Mode	: TX CH High E2 Mode	Test Date:	: May 16, 2006
Fundamental Frequency	: 848.80 MHz	Test By:	: Alex
Temperature	: 25°C	Pol:	: Ver / Hor
Humidity	: 65%		

Freq.	SPA Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
208.48	51.94	V	-49.92	-7.85	1.63	-59.40	-13.00	-46.40
849.00	80.45	V	-6.28	-7.88	3.75	-17.91	-13.00	-4.91
1693.00	81.88	V	-25.14	9.42	5.13	-20.85	-13.00	-7.85
2546.40	82.74	V	-21.05	10.20	6.40	-17.25	-13.00	-4.25
3395.20	64.83	V	-37.71	12.38	7.33	-32.66	-13.00	-19.66
4244.35	---	V	---	---	---	---	-13.00	---
5093.22	---	V	---	---	---	---	-13.00	---
5942.09	---	V	---	---	---	---	-13.00	---
6790.96	---	V	---	---	---	---	-13.00	---
7639.83	---	V	---	---	---	---	-13.00	---
8488.70	---	V	---	---	---	---	-13.00	---
586.78	45.60	H	-46.20	-7.78	2.89	-56.88	-13.00	-43.88
849.00	79.02	H	-8.00	-7.88	3.75	-19.62	-13.00	-6.62
1693.00	79.64	H	-27.34	9.42	5.13	-23.05	-13.00	-10.05
2546.40	80.15	H	-23.63	10.20	6.40	-19.83	-13.00	-6.83
3395.48	---	H	---	---	---	---	-13.00	---
4244.35	---	H	---	---	---	---	-13.00	---
5093.22	---	H	---	---	---	---	-13.00	---
5942.09	---	H	---	---	---	---	-13.00	---
6790.96	---	H	---	---	---	---	-13.00	---
7639.83	---	H	---	---	---	---	-13.00	---
8488.70	---	H	---	---	---	---	-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: PCS 1900 Mode

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

Test Date : May 16, 2006
 Test By: : Alex
 Pol: : Ver

Freq.	SPA Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
61.04	53.04	V	-58.31	-0.52	0.95	-59.79	-13.00	-46.79
780.78	44.89	V	-43.14	-7.87	3.50	-54.51	-13.00	-41.51
1850.00	70.10	V	-36.86	9.90	5.41	-32.37	-13.00	-19.37
5550.60	69.35	V	-25.86	13.23	9.68	-22.32	-13.00	-9.32
9251.00	---	V	---	---	---	---	-13.00	---
11101.20	---	V	---	---	---	---	-13.00	---
12951.40	---	V	---	---	---	---	-13.00	---
14801.60	---	V	---	---	---	---	-13.00	---
16651.80	---	V	---	---	---	---	-13.00	---
18502.00	---	V	---	---	---	---	-13.00	---
61.04	50.50	H	-60.81	-0.52	0.95	-62.29	-13.00	-49.29
96.93	52.37	H	-50.98	-7.76	1.20	-59.94	-13.00	-46.94
1850.00	81.15	H	-25.74	9.90	5.41	-21.25	-13.00	-8.25
1838.50	71.32	H	-35.58	9.86	5.39	-31.10	-13.00	-18.10
5550.60	64.01	H	-31.12	13.23	9.68	-27.57	-13.00	-14.57
9251.00	---	H	---	---	---	---	-13.00	---
11101.20	---	H	---	---	---	---	-13.00	---
12951.40	---	H	---	---	---	---	-13.00	---
14801.60	---	H	---	---	---	---	-13.00	---
16651.80	---	H	---	---	---	---	-13.00	---
18502.00	---	H	---	---	---	---	-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: PCS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date	: May 16, 2006
Fundamental Frequency	: 1880MHz	Test By	: Alex
Temperature	: 25°C	Pol	: Ver / Hor
Humidity	: 65%		

Freq.	SPA Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
33.88	52.75	V	-50.82	-5.52	0.72	-57.07	-13.00	-44.07
61.04	52.43	V	-58.92	-0.52	0.95	-60.40	-13.00	-47.40
586.78	44.74	V	-46.43	-7.78	2.89	-57.10	-13.00	-44.10
780.78	45.27	V	-42.76	-7.87	3.50	-54.13	-13.00	-41.13
5641.00	70.21	V	-24.74	13.36	9.73	-21.11	-13.00	-8.11
9400.00	---	V	---	---	---	---	-13.00	---
11280.00	---	V	---	---	---	---	-13.00	---
13160.00	---	V	---	---	---	---	-13.00	---
15040.00	---	V	---	---	---	---	-13.00	---
16920.00	---	V	---	---	---	---	-13.00	---
18800.00	---	V	---	---	---	---	-13.00	---
48.43	51.85	H	-54.57	-0.92	0.88	-56.38	-13.00	-43.38
586.78	44.78	H	-47.02	-7.78	2.89	-57.70	-13.00	-44.70
780.78	40.83	H	-47.54	-7.87	3.50	-58.91	-13.00	-45.91
1871.00	71.81	H	-35.07	9.96	5.44	-30.55	-13.00	-17.55
5641.00	64.77	H	-30.12	13.36	9.73	-26.49	-13.00	-13.49
9400.00	---	H	---	---	---	---	-13.00	---
11280.00	---	H	---	---	---	---	-13.00	---
13160.00	---	H	---	---	---	---	-13.00	---
15040.00	---	H	---	---	---	---	-13.00	---
16920.00	---	H	---	---	---	---	-13.00	---
18800.00	---	H	---	---	---	---	-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: PCS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date	: May 16, 2006
Fundamental Frequency	: 1909.8 MHz	Test By	: Alex
Temperature	: 25°C	Pol	: Ver / Hor
Humidity	: 65%		

Freq.	SPA Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
586.78	47.24	V	-43.93	-7.78	2.89	-54.60	-13.00	-41.60
1910.02	65.84	V	-41.10	10.08	5.51	-36.53	-13.00	-23.53
3821.00	58.04	V	-42.98	12.60	7.92	-38.30	-13.00	-25.30
5725.50	55.02	V	-39.69	13.49	9.78	-35.98	-13.00	-22.98
9549.00	---	V	---	---	---	---	-13.00	---
11458.80	---	V	---	---	---	---	-13.00	---
13368.60	---	V	---	---	---	---	-13.00	---
15278.40	---	V	---	---	---	---	-13.00	---
17188.20	---	V	---	---	---	---	-13.00	---
19098.00	---	V	---	---	---	---	-13.00	---
586.78	45.74	H	-46.06	-7.78	2.89	-56.74	-13.00	-43.74
935.98	41.19	H	-44.02	-7.99	3.92	-55.93	-13.00	-42.93
1910.00	75.59	H	-31.26	10.08	5.51	-26.70	-13.00	-13.70
3821.00	57.22	H	-43.63	12.60	7.92	-38.95	-13.00	-25.95
5725.50	59.40	H	-35.26	13.49	9.78	-31.55	-13.00	-18.55
9549.00	---	H	---	---	---	---	-13.00	---
11458.80	---	H	---	---	---	---	-13.00	---
13368.60	---	H	---	---	---	---	-13.00	---
15278.40	---	H	---	---	---	---	-13.00	---
17188.20	---	H	---	---	---	---	-13.00	---
19098.00	---	H	---	---	---	---	-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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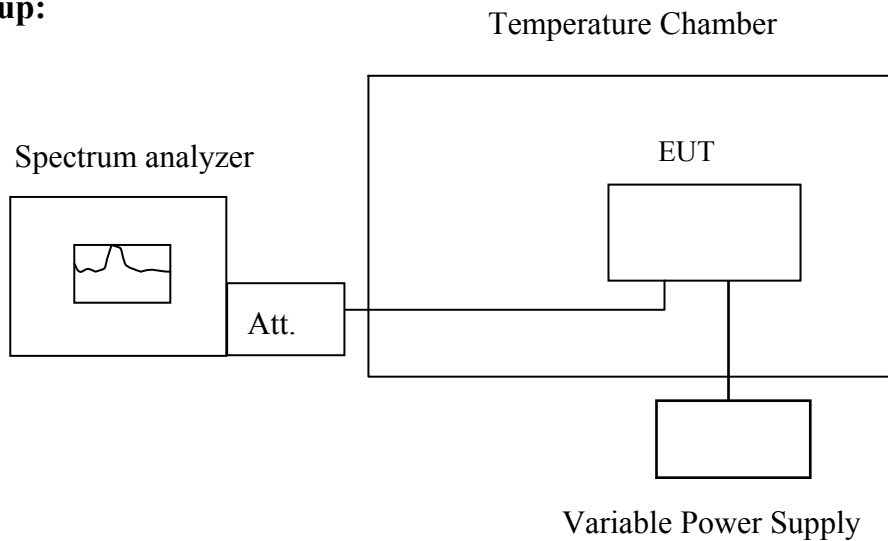
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

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 recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
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
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

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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	836.59951	370.00	2091
3.7	-20	836.59974	140.00	2091
3.7	-10	836.59968	200.00	2091
3.7	0	836.59967	210.00	2091
3.7	10	836.59979	90.00	2091
3.7	20	836.59988	0.00	2091
3.7	30	836.59975	130.00	2091
3.7	40	836.59986	20.00	2091
3.7	50	836.59987	10.00	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	1880.00136	-100.00	4700
3.7	-20	1880.00135	-90.00	4700
3.7	-10	1880.00124	20.00	4700
3.7	0	1880.00123	30.00	4700
3.7	10	1880.00136	-100.00	4700
3.7	20	1880.00126	0.00	4700
3.7	30	1880.00122	40.00	4700
3.7	40	1880.00124	20.00	4700
3.7	50	1880.00131	-50.00	4700

Note: The battery is rated 3.7V dc.

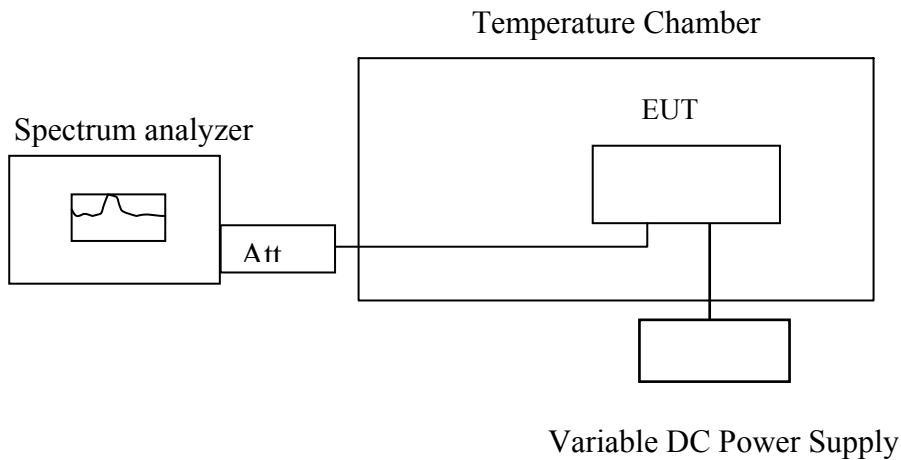
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

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	7405A	US41160416	06/28/2005	06/29/2006
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
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

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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	836.59983	0.00	2091.00
3.26	25.00	836.59986	-30.00	2091.00
3.15	25.00	836.59979	40.00	2091.00
3.13 (End Point)	25.00	836.59993	(100.00)	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	1880.00125	0.00	4700
3.255	25	1880.00124	10.00	4700
3.15	25	1880.00121	40.00	4700
3.14 (Endpoint)	25	1880.00120	50.00	4700

Note: The battery is rated 3.7V dc.

12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

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

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

Note

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

12.2 EUT Setup

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

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.

AC POWER LINE CONDUCTED EMISSION TEST DATA

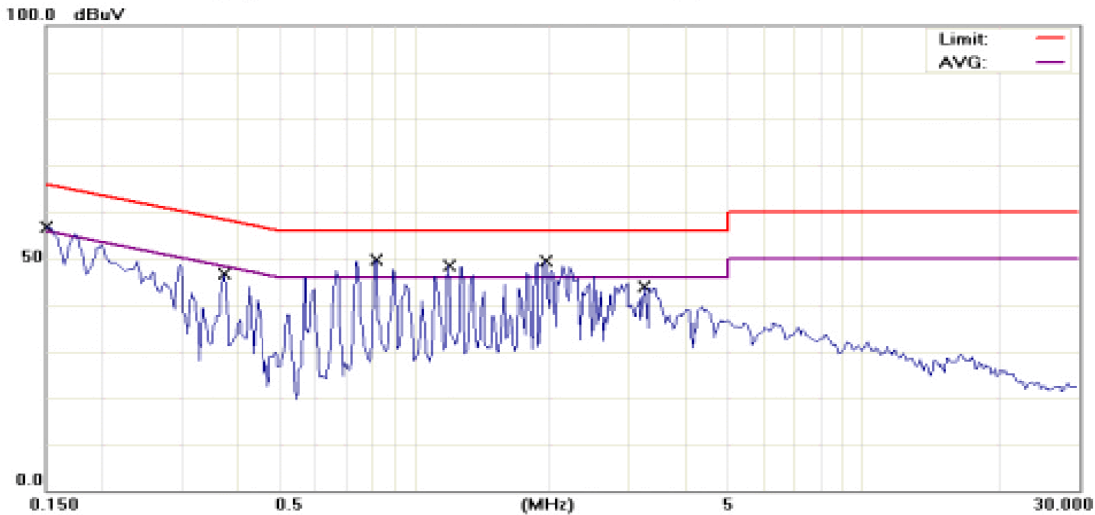
Operation Mode	: GSM850 Normal Operating	Test Date	: May.23, 2006
Fundamental Frequency	: N/A	Test By	: Alex
Temperature	: 24°C	Pol	: Line
Humidity	: 61%	Adaptor Model	: SME-2B
Test Voltage	: 120Vac	Serial number	: Laipac

Conducted Emission Measurement

File : (ER-2005-80020-21)萊普

Data : #22

Time: 下午 10:27:53



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	24 °C
Limit:	CISPR22 Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	61 %
EUT:	Personal Locator	Distance:		Air Pressure:	hpa
M/N:	911				
Note:	LINK MODE(850)				

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	47.23	0.60	47.83	66.00	-18.17	QP	
2		0.1500	29.93	0.60	30.53	56.00	-25.47	AVG	
3		0.3750	43.71	0.61	44.32	58.39	-14.07	QP	
4		0.3750	32.14	0.61	32.75	48.39	-15.64	AVG	
5	*	0.8200	47.22	0.62	47.84	56.00	-8.16	QP	
6		0.8200	32.93	0.62	33.55	46.00	-12.45	AVG	
7		1.1850	45.50	0.63	46.13	56.00	-9.87	QP	
8		1.1850	30.90	0.63	31.53	46.00	-14.47	AVG	
9		1.9450	45.08	0.65	45.73	56.00	-10.27	QP	
10		1.9450	28.32	0.65	28.97	46.00	-17.03	AVG	
11		3.2550	39.40	0.69	40.09	56.00	-15.91	QP	
12		3.2550	20.30	0.69	20.99	46.00	-25.01	AVG	

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Operation Mode : GSM850 Normal Operating
 Fundamental Frequency : N/A
 Temperature : 24°C
 Humidity : 61%
 Test Voltage : 120Vac

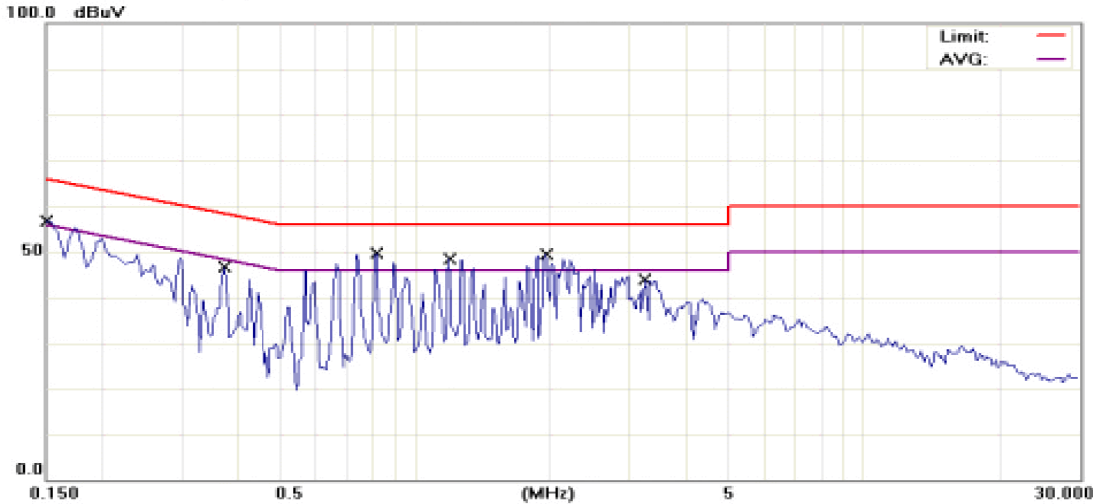
Test Date : May.23, 2006
 Test By : Alex
 Pol : Neutral
 Adaptor Model :SME-2B
 Serial number : :Laipac

Conducted Emission Measurement

File : (ER-2005-80020-21) 泰普

Data : #22

Time: 下午 10:27:53



Site: SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Personal Locator
 M/N: 911
 Note: LINK MODE(850)

Phase: **L1**
 Power: AC 120W/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 61 %
 Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1500	47.23	0.60	47.83	66.00	-18.17	QP	
2		0.1500	29.93	0.60	30.53	56.00	-25.47	AVG	
3		0.3750	43.71	0.61	44.32	58.39	-14.07	QP	
4		0.3750	32.14	0.61	32.75	48.39	-15.64	AVG	
5	*	0.8200	47.22	0.62	47.84	56.00	-8.16	QP	
6		0.8200	32.93	0.62	33.55	46.00	-12.45	AVG	
7		1.1850	45.50	0.63	46.13	56.00	-9.87	QP	
8		1.1850	30.90	0.63	31.53	46.00	-14.47	AVG	
9		1.9450	45.08	0.65	45.73	56.00	-10.27	QP	
10		1.9450	28.32	0.65	28.97	46.00	-17.03	AVG	
11		3.2550	39.40	0.69	40.09	56.00	-15.91	QP	
12		3.2550	20.30	0.69	20.99	46.00	-25.01	AVG	

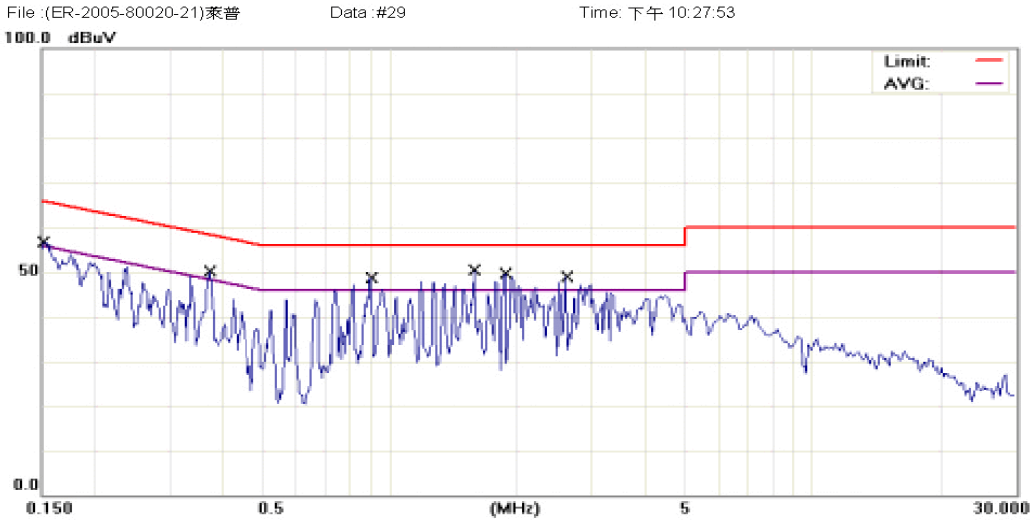
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating
 Fundamental Frequency : N/A
 Temperature : 24°C
 Humidity : 61%
 Test Voltage : 120Vac

Test Date : May.23, 2006
 Test By : Alex
 Pol : Line
 Adaptor Model : SME-2B
 Serial number : Laipac

Conducted Emission Measurement



Site: SGS CONDUCTED #1 Phase: **L1** Temperature: 24 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 61 %
 EUT: Personal Locator Distance: Air Pressure: hpa
 M/N: 911
 Note: LINK MODE(1900)

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV		dB	dBuV	dBuV		
1		0.1516	47.34	0.60	47.94	65.91	-17.97	QP	
2		0.1516	33.10	0.60	33.70	55.91	-22.21	AVG	
3		0.3750	47.59	0.61	48.20	58.39	-10.19	QP	
4		0.3750	29.63	0.61	30.24	48.39	-18.15	AVG	
5		0.9000	43.96	0.62	44.58	56.00	-11.42	QP	
6		0.9000	32.81	0.62	33.43	46.00	-12.57	AVG	
7	*	1.5800	49.68	0.64	50.32	56.00	-5.68	QP	
8		1.5800	33.49	0.64	34.13	46.00	-11.87	AVG	
9		1.8750	40.98	0.65	41.63	56.00	-14.37	QP	
10		1.8750	31.82	0.65	32.47	46.00	-13.53	AVG	
11		2.6150	42.33	0.67	43.00	56.00	-13.00	QP	
12		2.6150	28.55	0.67	29.22	46.00	-16.78	AVG	

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Operation Mode : GSM1900 Normal Operating
 Fundamental Frequency : N/A
 Temperature : 24°C
 Humidity : 61%
 Test Voltage : 120Vac

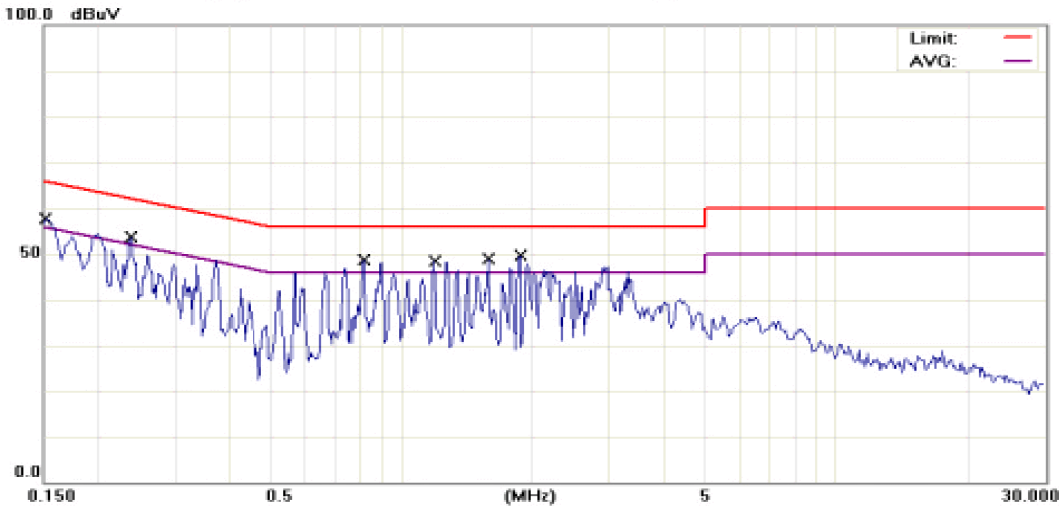
Test Date : May.23, 2006
 Test By : Alex
 Pol : Neutral
 Adaptor Model : SME-2B
 Serial number : Laipac

Conducted Emission Measurement

File : (ER-2005-80020-21)萊普

Data : #26

Time: 下午 10:27:53



Site: SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Personal Locator
 M/N: 911
 Note: LINK MODE(1900)

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

Temperature: 24 °C
 Humidity: 61 %
 Air Pressure: hpa

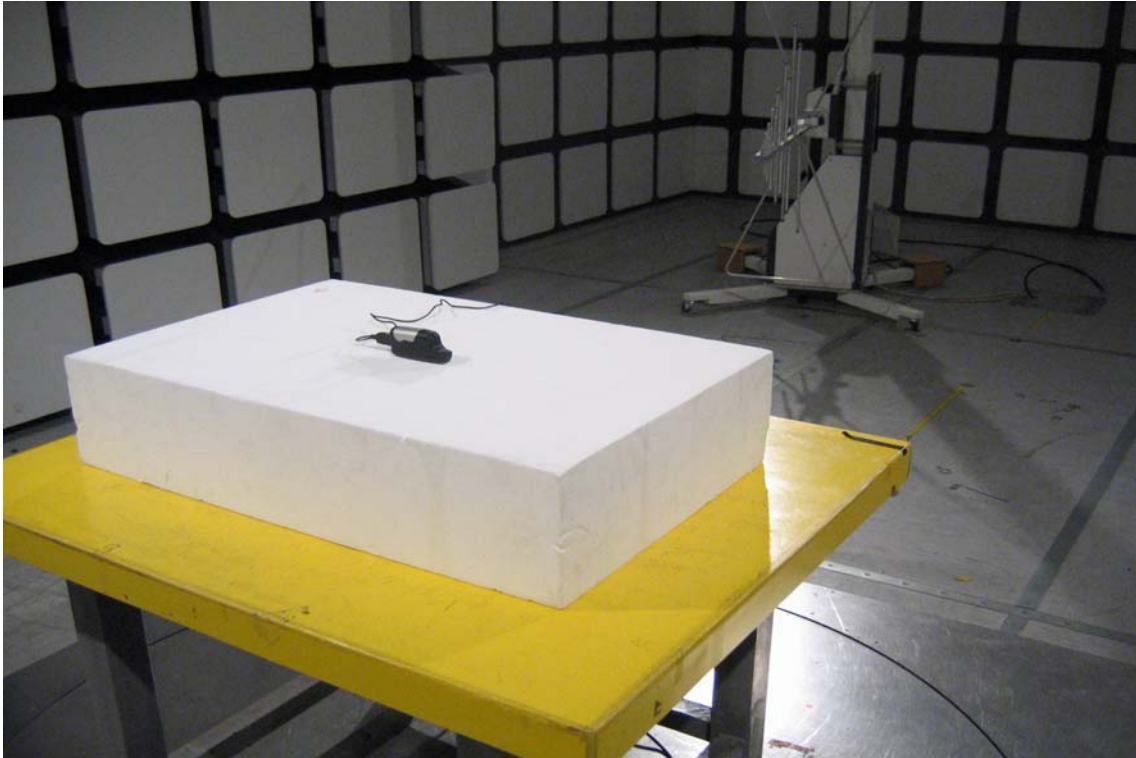
No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1516	47.62	0.60	48.22	65.91	-17.69	QP	
2		0.1516	34.17	0.60	34.77	55.91	-21.14	AVG	
3		0.2378	46.24	0.60	46.84	62.17	-15.33	QP	
4		0.2378	29.84	0.60	30.44	52.17	-21.73	AVG	
5		0.8200	43.66	0.62	44.28	56.00	-11.72	QP	
6		0.8200	27.25	0.62	27.87	46.00	-18.13	AVG	
7	*	1.1850	45.34	0.63	45.97	56.00	-10.03	QP	
8		1.1850	28.43	0.63	29.06	46.00	-16.94	AVG	
9		1.5850	44.45	0.64	45.09	56.00	-10.91	QP	
10		1.5850	30.15	0.64	30.79	46.00	-15.21	AVG	
11		1.8700	40.54	0.65	41.19	56.00	-14.81	QP	
12		1.8700	28.47	0.65	29.12	46.00	-16.88	AVG	

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APPENDIX 1

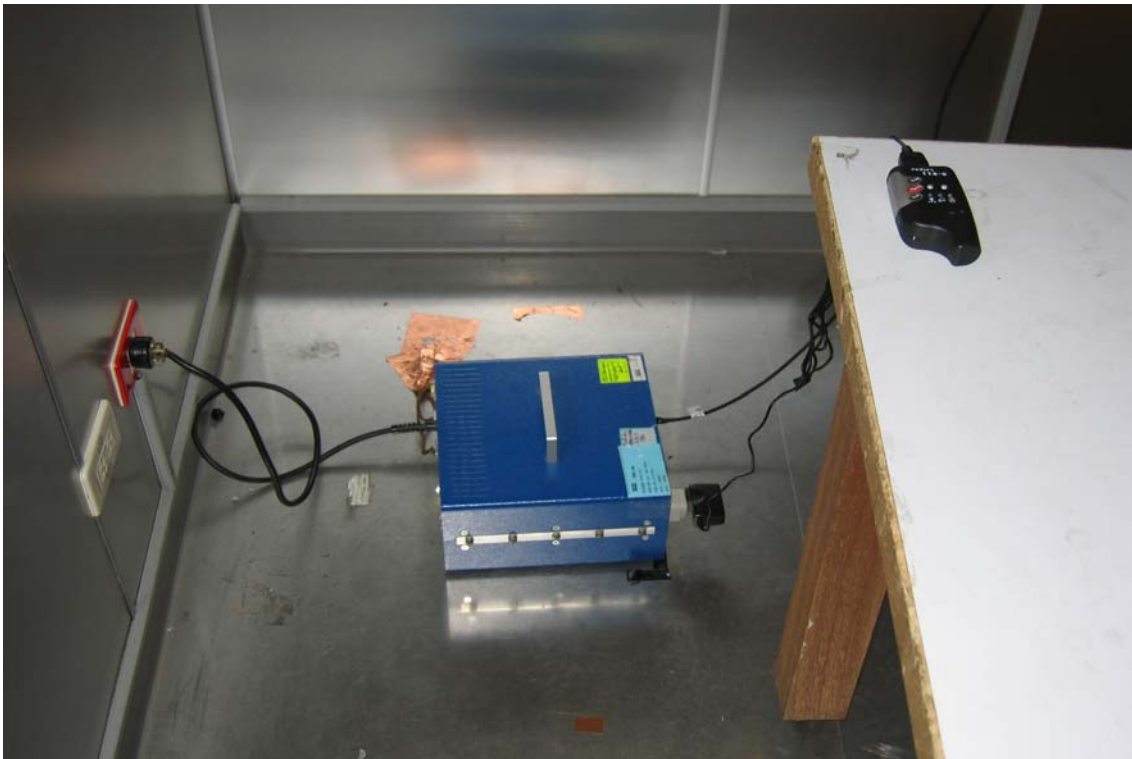
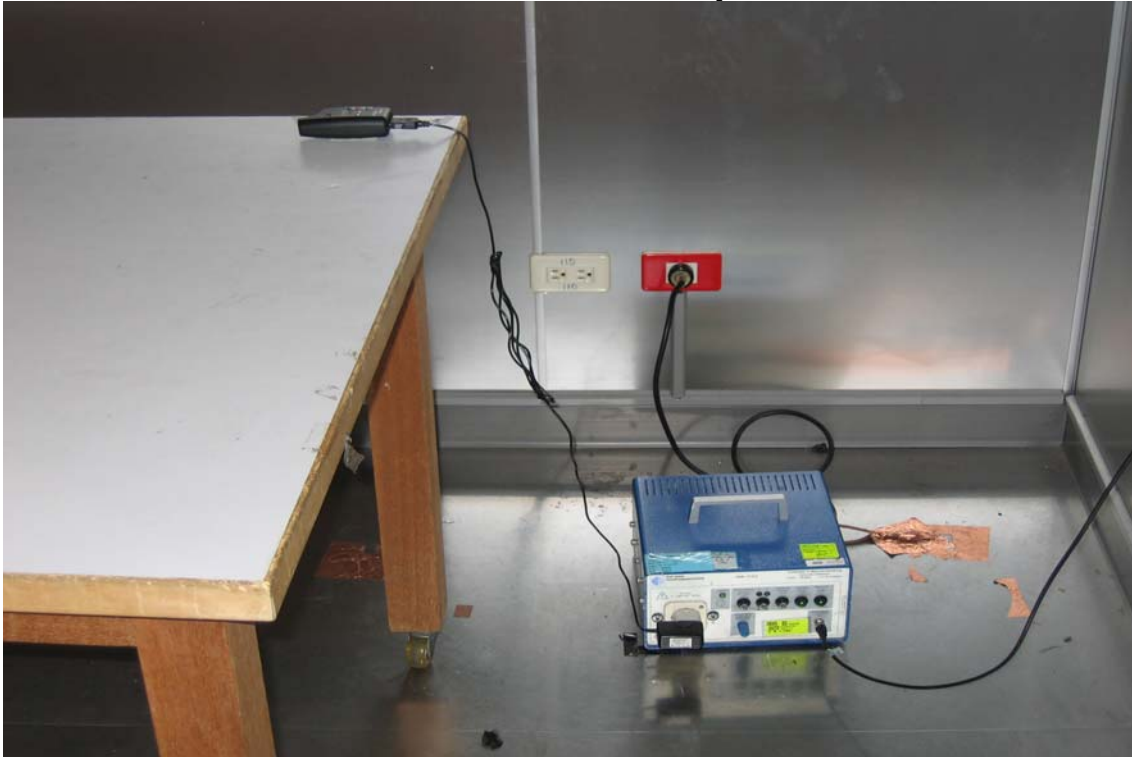
PHOTOGRPHS OF SET UP

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Radiated Emission Set up Photos

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Conducted Emission Set Up Photos



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APPENDIX 2

PHOTOGRPHS OF EUT

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All of EUT



Adaptor



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Front View of EUT



Back View of EUT



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Top View of EUT*Bottom View of EUT*

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Open View of EUT

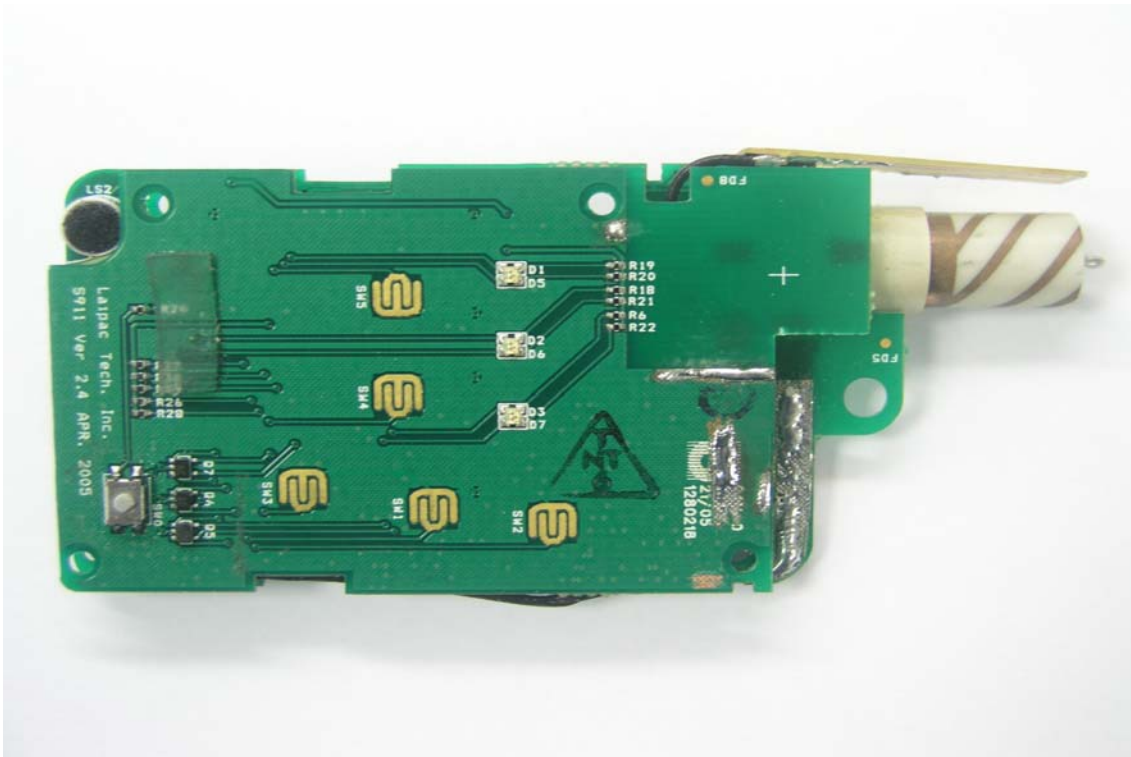


Internal of EUT - 1



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Internal of EUT – 2

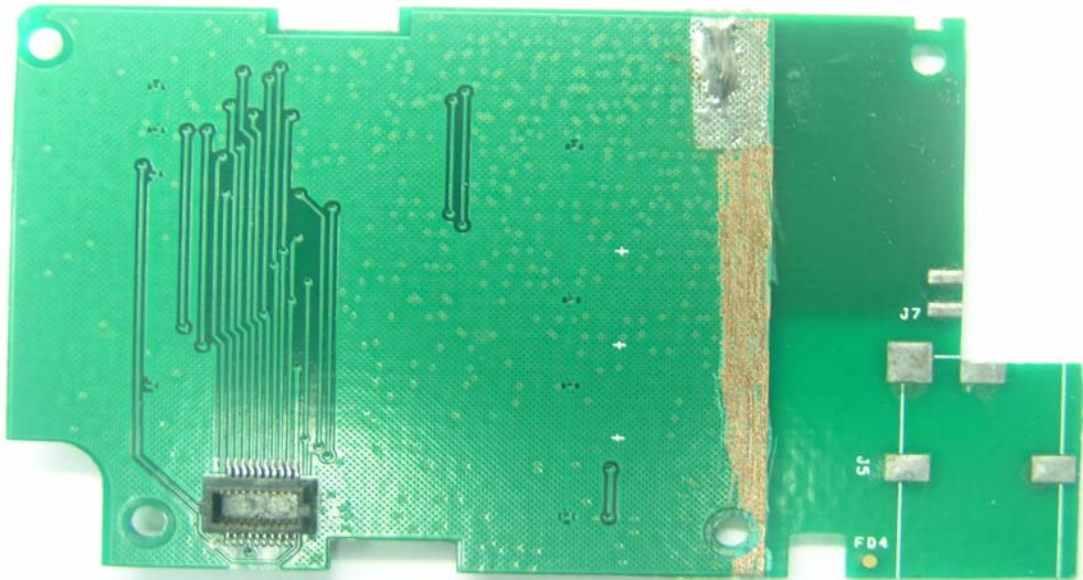


Internal of EUT – 3



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Internal of EUT --- 4



Internal of EUT --- 5

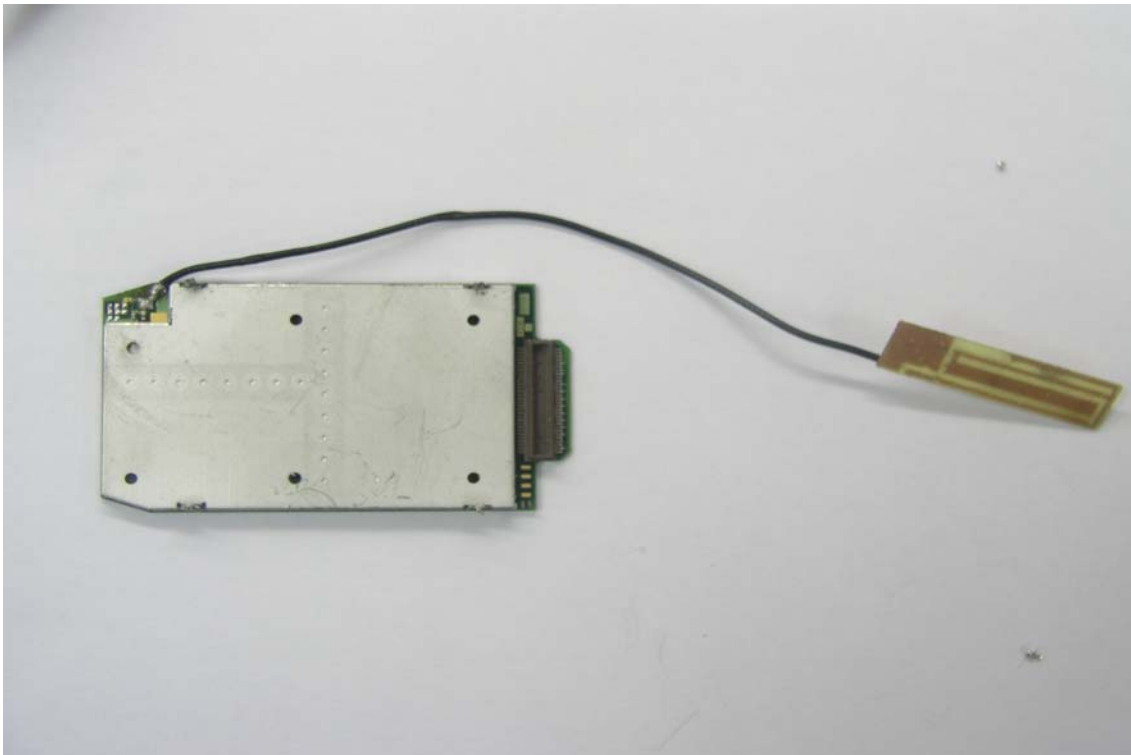


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Internal of EUT --- 6



Internal of EUT --- 7



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