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:	**Alcatel**
Model Name:	**E5La**
Market Name:	**OT-C750a**
FCC ID:	**RAD029**
Report No.:	**ER/2006/20013**
Issue Date:	**Mar. 06, 2006**
FCC Rule Part:	**2 & 22H & 24E**
Prepared for	**T&A Mobile Phones** **5/F, No.2966, Jinke Rd,** **Zhangjiang High-Teck Park,** **Pudong Shanghai 201203. P. R. China**
Prepared by	**SGS Taiwan Ltd.** **No. 134, Wu Kung Rd., Wuku Industrial Zone,** **Taipei County, Taiwan.**

VERIFICATION OF COMPLIANCE

Applicant:	T&A Mobile Phones 5/F, No.2966, Jinke Rd, Zhangjiang High-Teck Park, Pudong Shanghai 201203. P. R. China
Equipment Under Test:	GSM 850/1900 mobile phone
FCC ID Number:	RAD029
Brand Name:	Alcatel
Model No.:	E5La
Market Name:	OT-C750a
Model Difference:	N/A
File Number:	ER/2006/20013
Date of test:	Feb. 25, 2006 ~ Mar. 03, 2006
Date of EUT Received:	Feb. 24, 2006

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:	Danny Yeh	***Date***	Mar. 06, 2006
	Danny Yeh		
Prepared By:	Gigi yeh	***Date***	Mar. 06, 2006
	Gigi Yeh		
Approved By	Vincent Su	***Date***	Mar. 06, 2006
	Vincent Su		

Version

Version No.	Date
00	Mar. 06, 2006

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1. GENERAL INFORMATION

1.1 Product Description

Product	GSM 850/1900 mobile phone	
Model Name	E5La	
Market Name	OT-C750a	
Model Difference:	N/A	
Trade Name	Alcatel	
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:	Four 5V DC by AC/DC Adapters model number: 3DS09371AGAA,(supplier: Astec and Leader Electronics) model number: 3DS09371AAAA (supplier: Astec and Leader Electronics) One 5Vdc Car Charge Model number:3DS07848AAAA (supplier: Primax)

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RAD029** 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: 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)

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

C-1

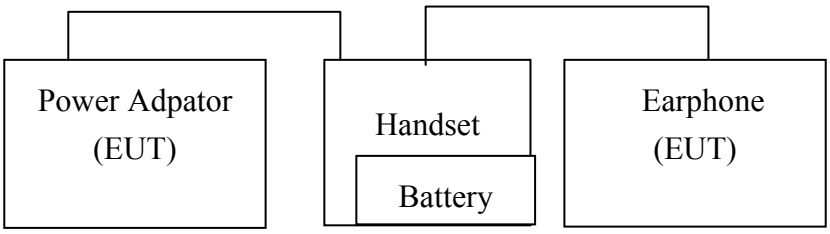


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1..	N/A					

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, and earphone. 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

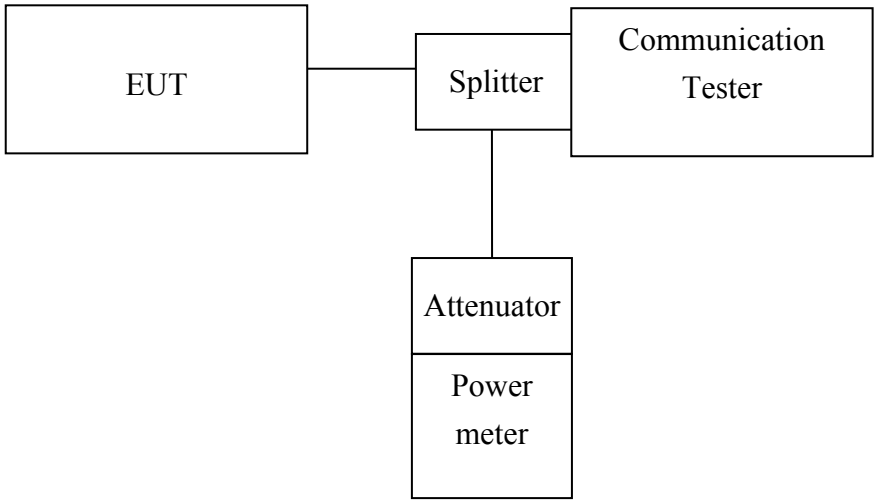
5.1 Standard Applicable

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	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-Circult	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circult	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

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	6.90	26.5	33.40
	836.60	190	6.91	26.5	33.41
	848.80	251	6.89	26.5	33.39

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	4.19	26.5	30.69
	1880.00	661	3.84	26.5	30.34
	1909.80	810	3.68	26.5	30.18

6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

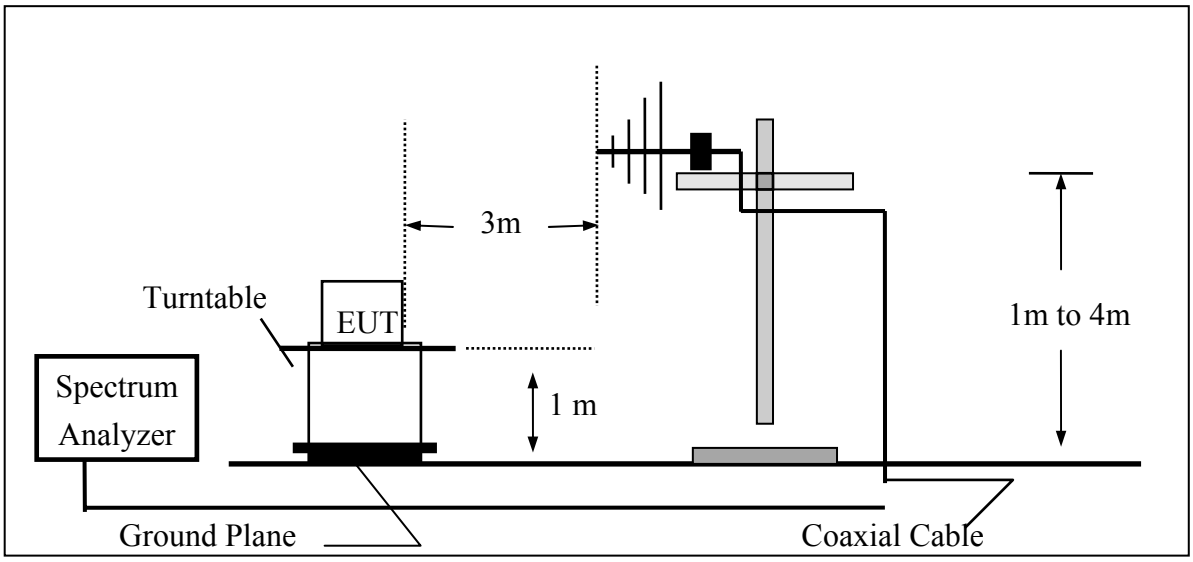
According to FCC §2.1046

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

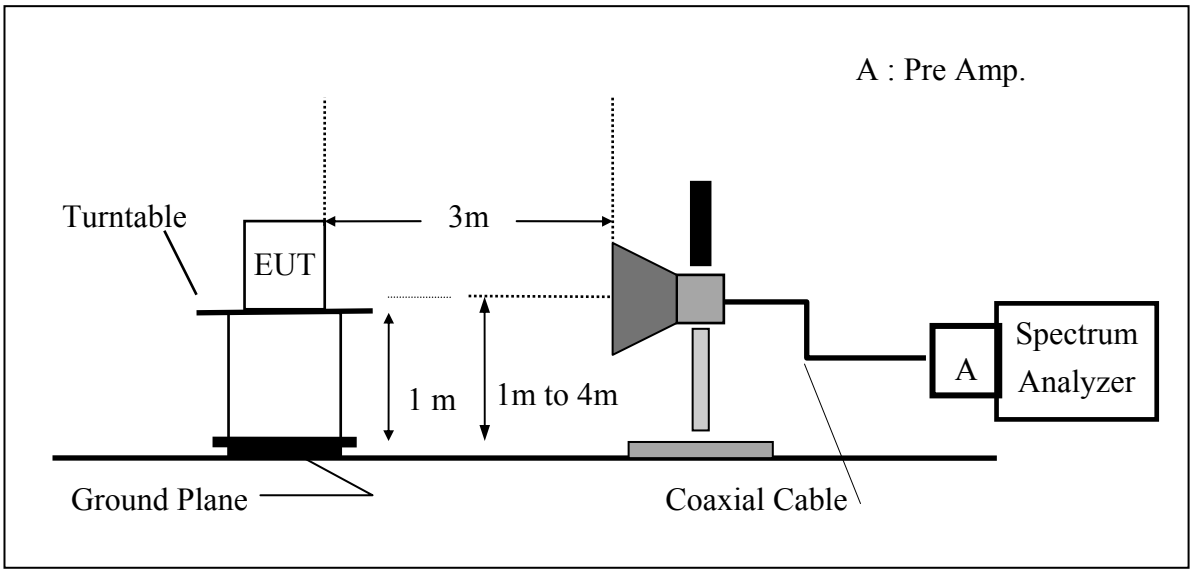
FCC 24.232(b) Mobile station are limited to 2W EIRP.

6.2 Test SET-UP (Block Diagram of Configuration)

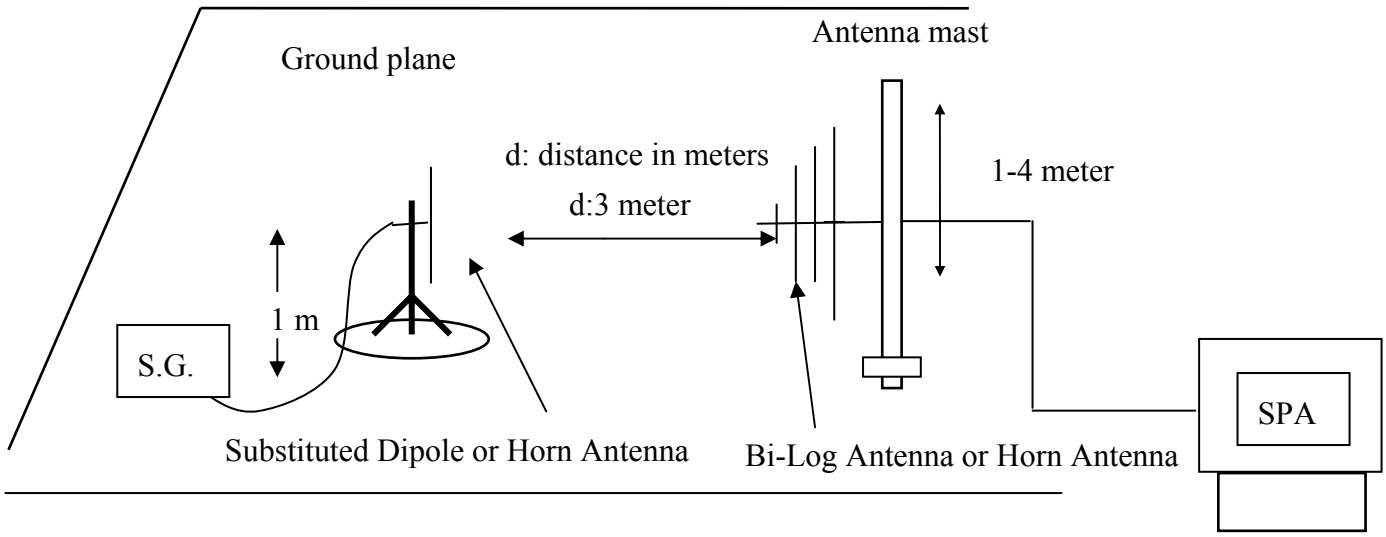
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(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:

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

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

6.4 Measurement Equipment Used:

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

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	824.20	128	H	V	121.03	33.71	-7.87	3.64	22.19	38.45
				H	127.51	39.86	-7.87	3.64	28.34	38.45
			E1	V	121.68	34.65	-7.88	3.70	23.08	38.45
				H	128.82	41.49	-7.88	3.70	29.91	38.45
			E2	V	121.43	34.69	-7.88	3.75	23.06	38.45
				H	128.18	41.16	-7.88	3.75	29.53	38.45
	836.60	190	H	V	128.81	41.49	-7.87	3.64	29.97	38.45
				H	117.55	29.90	-7.87	3.64	18.38	38.45
			E1	V	130.02	42.99	-7.88	3.70	31.42	38.45
				H	118.52	31.19	-7.88	3.70	19.61	38.45
			E2	V	129.88	43.14	-7.88	3.75	31.52	38.45
				H	117.72	30.70	-7.88	3.75	19.07	38.45
	848.80	251	H	V	115.80	28.48	-7.87	3.64	16.96	38.45
				H	128.56	40.91	-7.87	3.64	29.39	38.45
			E1	V	117.77	30.74	-7.88	3.70	19.17	38.45
				H	129.14	41.81	-7.88	3.70	30.23	38.45
			E2	V	116.34	29.60	-7.88	3.75	17.97	38.45
				H	129.38	42.36	-7.88	3.75	30.73	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

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	123.11	16.15	9.90	5.41	20.64	33.00
				H	126.76	19.87	9.90	5.41	24.36	33.00
			E1	V	121.44	14.49	9.99	5.46	19.02	33.00
				H	126.16	19.29	9.99	5.46	23.82	33.00
			E2	V	120.82	13.88	10.08	5.51	18.45	33.00
				H	125.74	18.89	9.90	5.84	22.95	33.00
	1880.00	661	H	V	127.46	20.50	9.90	5.41	24.99	33.00
				H	122.23	15.34	9.90	5.41	19.83	33.00
			E1	V	126.82	19.87	9.99	5.46	24.40	33.00
				H	120.88	14.01	9.99	5.46	18.54	33.00
			E2	V	126.79	19.85	10.08	5.51	24.42	33.00
				H	121.18	14.33	10.08	5.51	18.89	33.00
	1909.80	810	H	V	124.89	17.93	9.90	5.41	22.42	33.00
				H	130.17	23.28	9.90	5.41	27.77	33.00
			E1	V	124.20	17.25	9.99	5.46	21.78	33.00
				H	129.99	23.12	9.99	5.46	27.65	33.00
			E2	V	123.71	16.77	10.08	5.51	21.34	33.00
				H	129.67	22.82	10.08	5.51	27.38	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

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

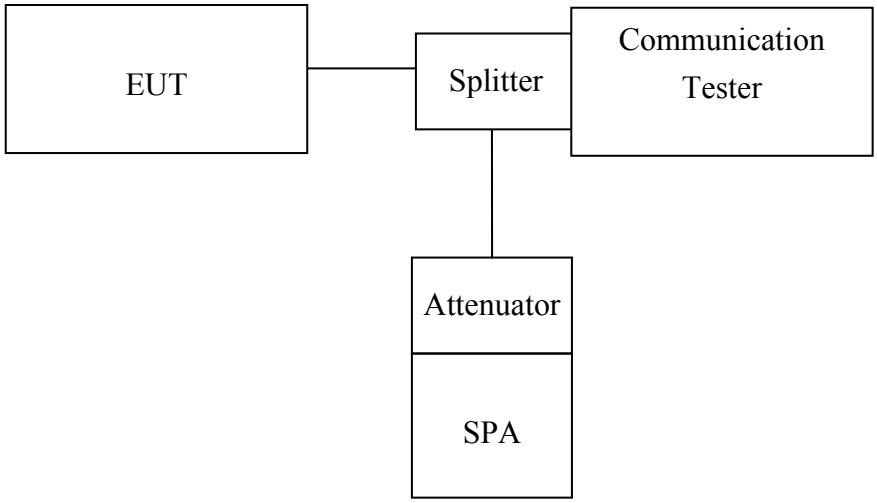
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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	03/29/2005	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-Circult	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circult	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	0.2397
	836.60	190	0.2397
	848.80	251	0.2415

EUT Mode	Frequency (MHz)	CH	99%Bandwidth (MHz)
PCS 1900	1850.20	512	0.2427
	1880.00	661	0.2347
	1909.80	810	0.2386

Figure 7-1: GSM Channel Low

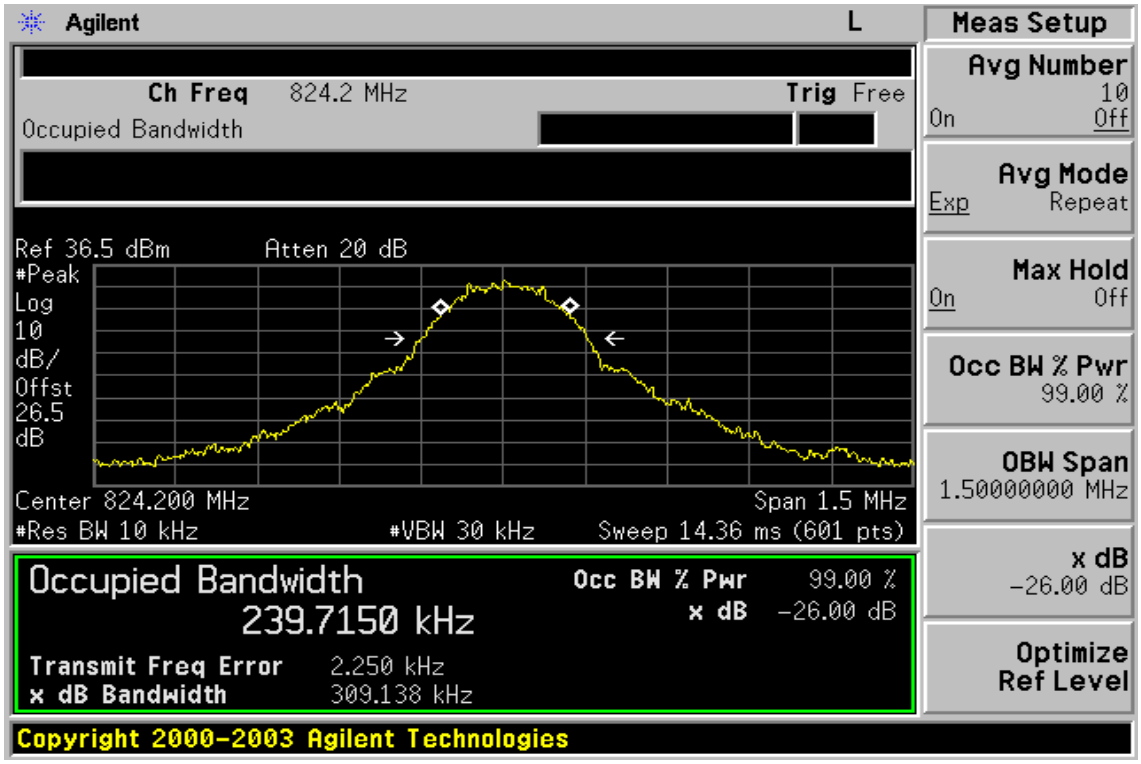


Figure 7-2 GSM Channel Mid

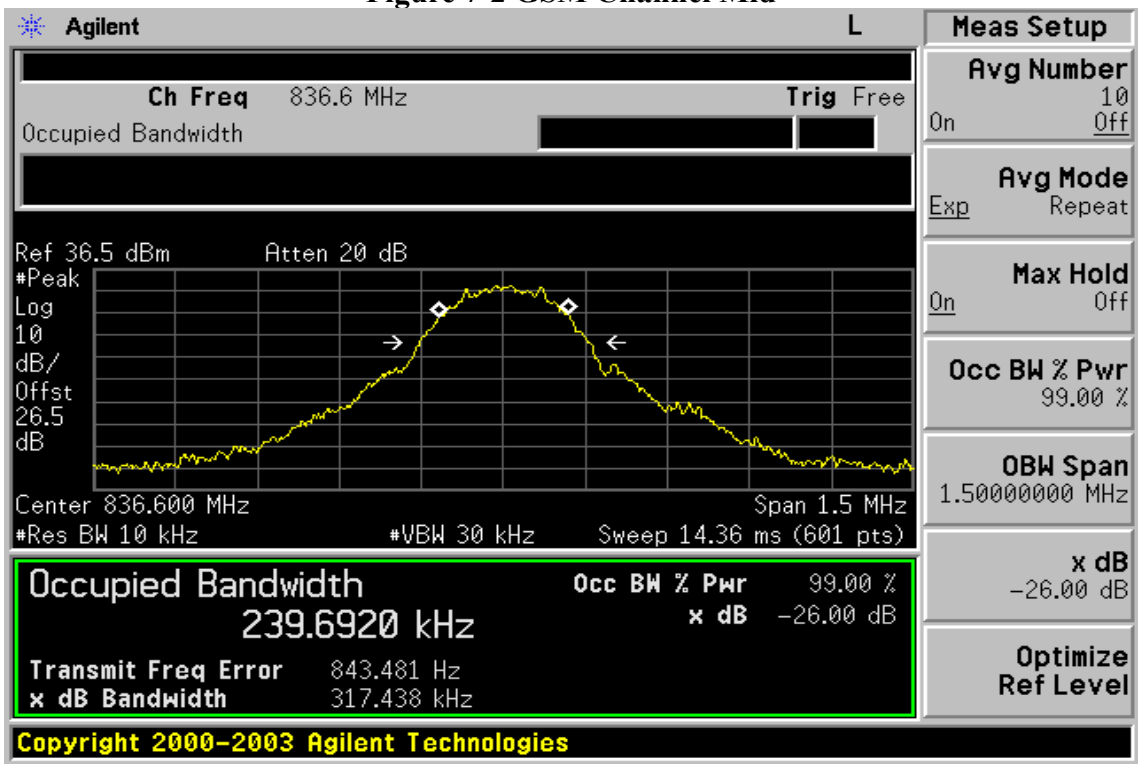


Figure 7-3: GSM Channel High

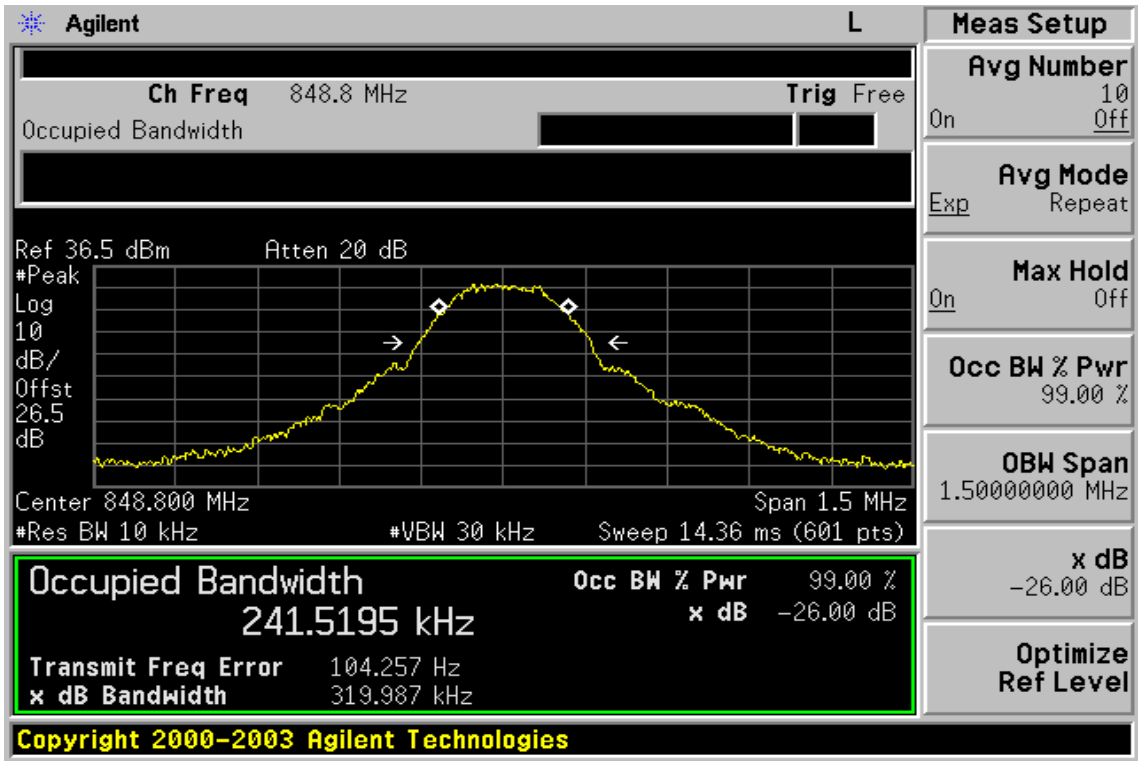


Figure 7-4: PCS Channel Low

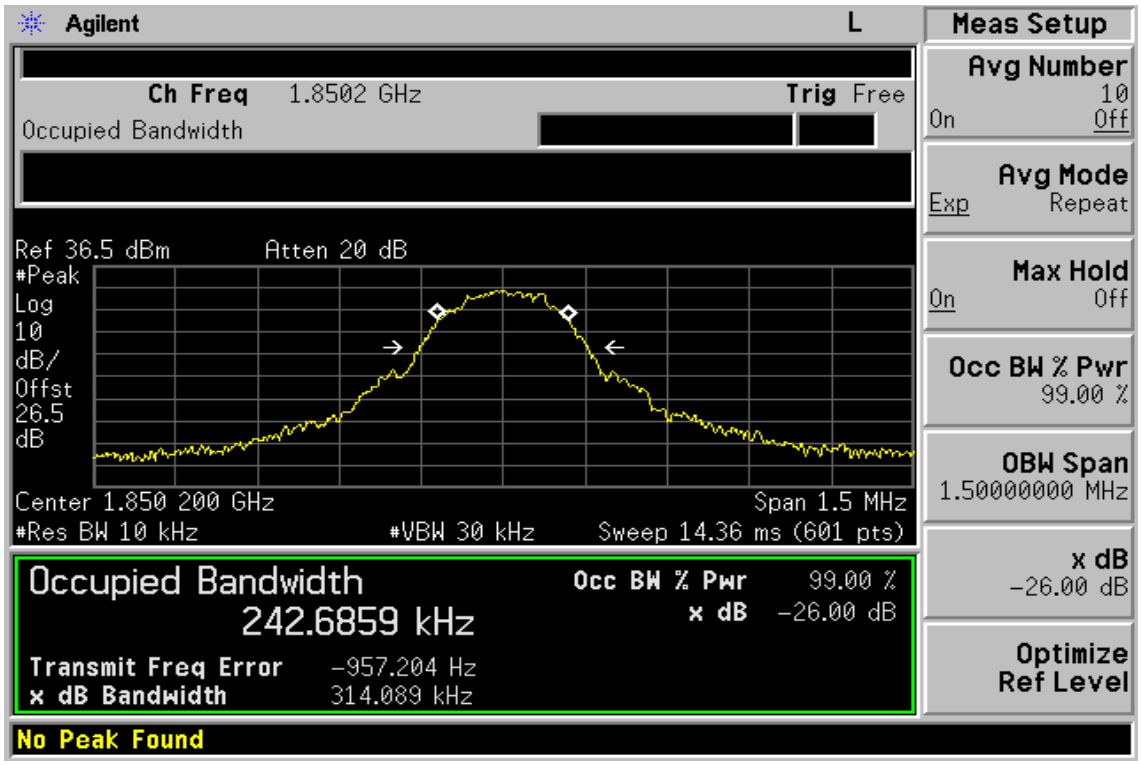


Figure 7-5 PCS Channel Mid

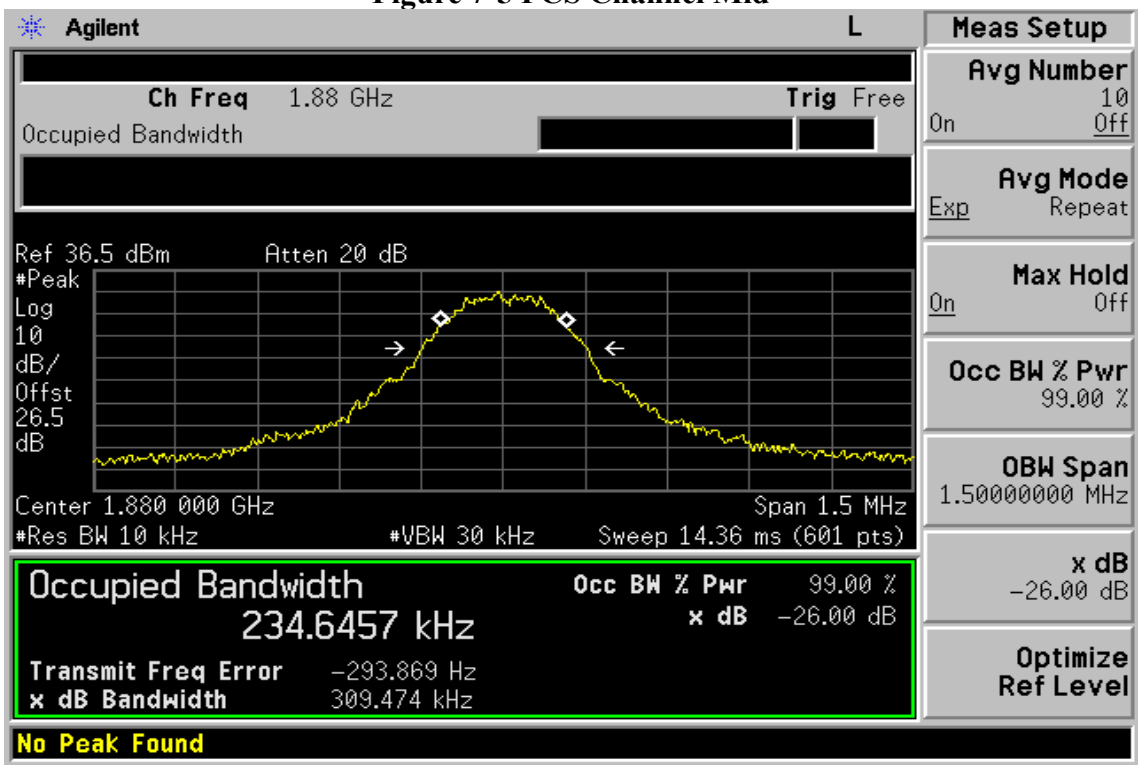
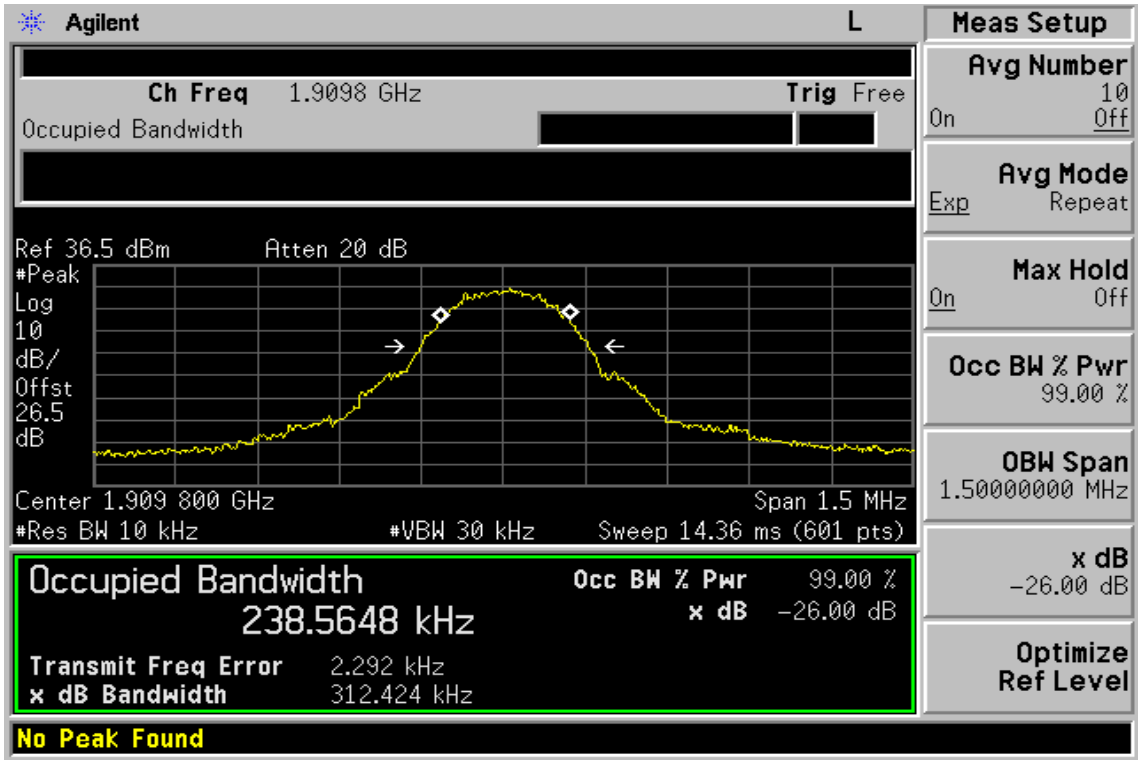


Figure 7-6: PCS Channel High



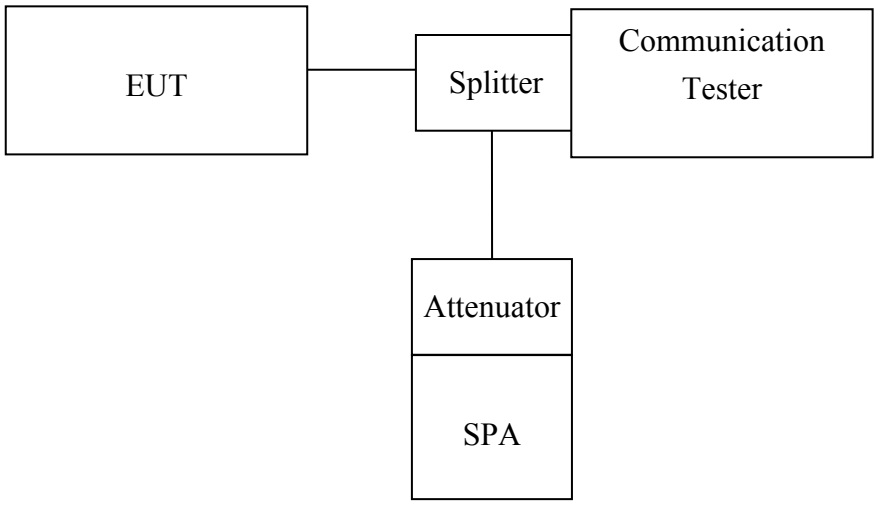
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

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

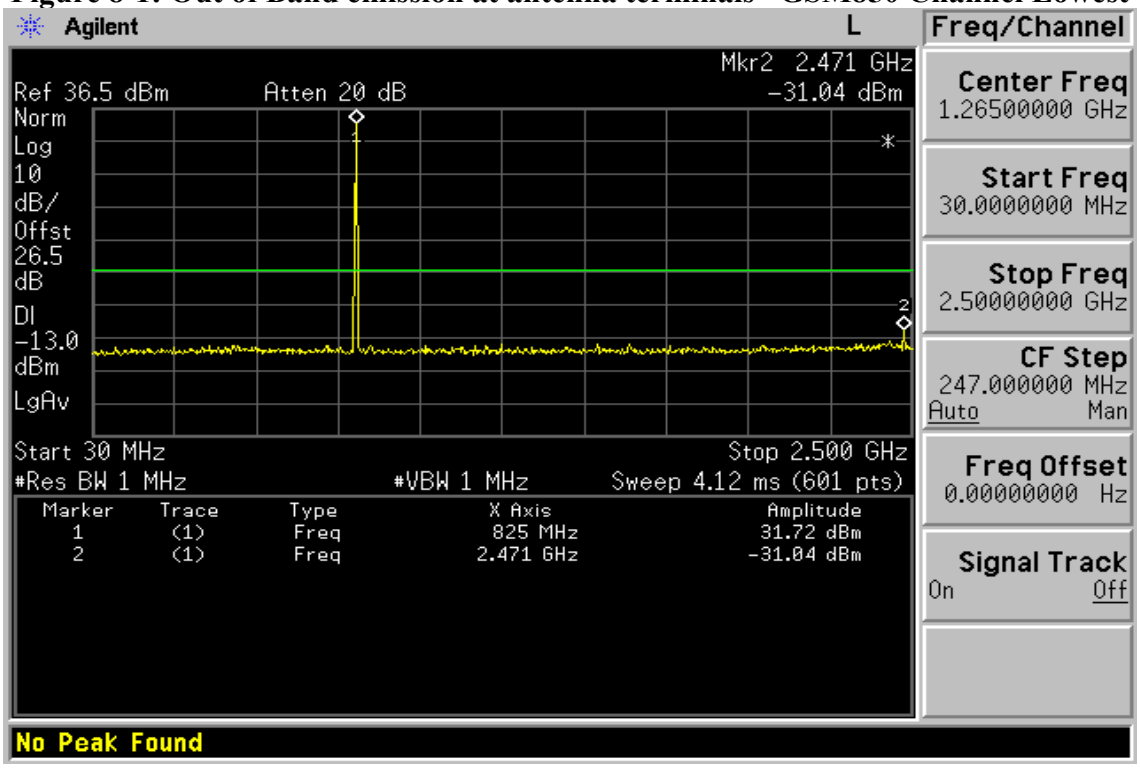
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

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	03/29/2005	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-Circult	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006

8.5 Measurement Result

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



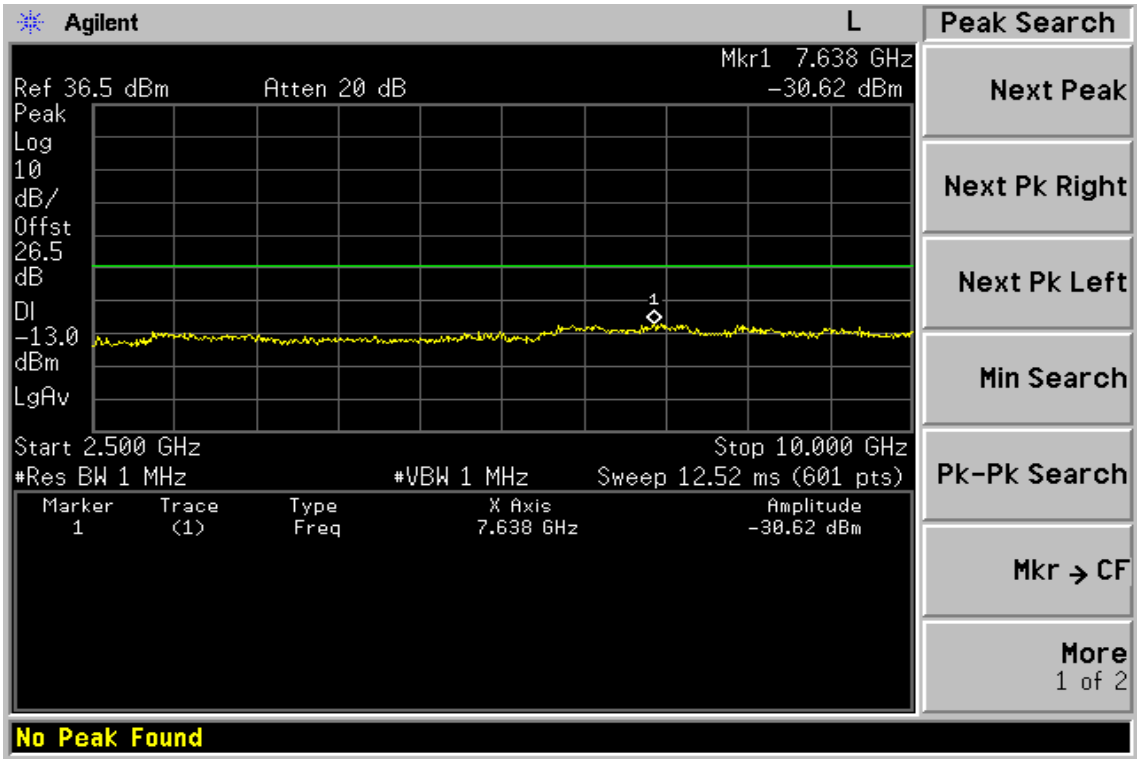
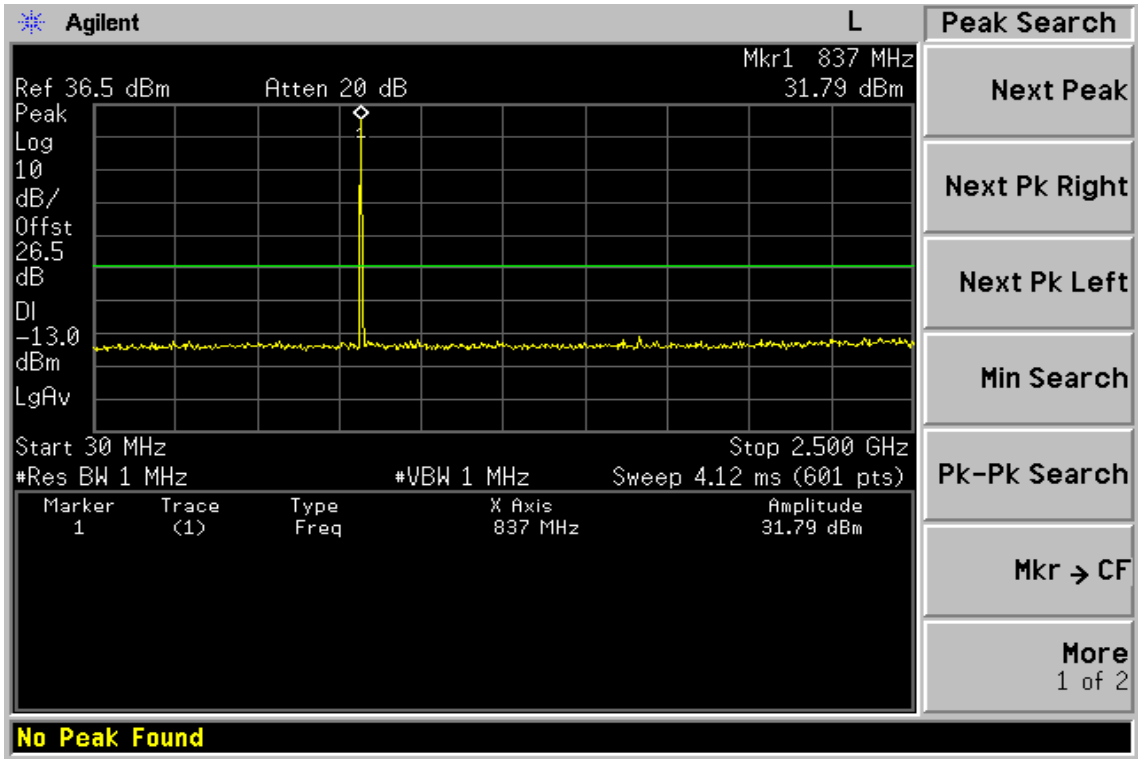


Figure 8-2: Out of Band emission at antenna terminals –GSM850 Channel Mid



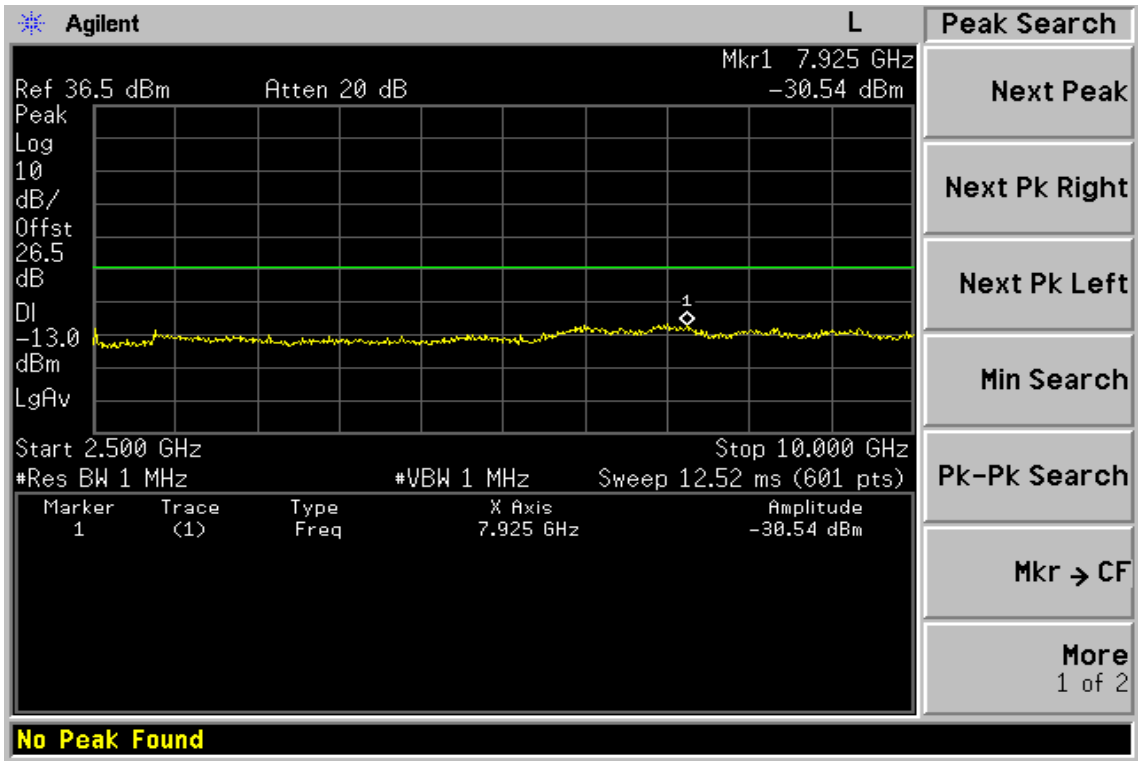
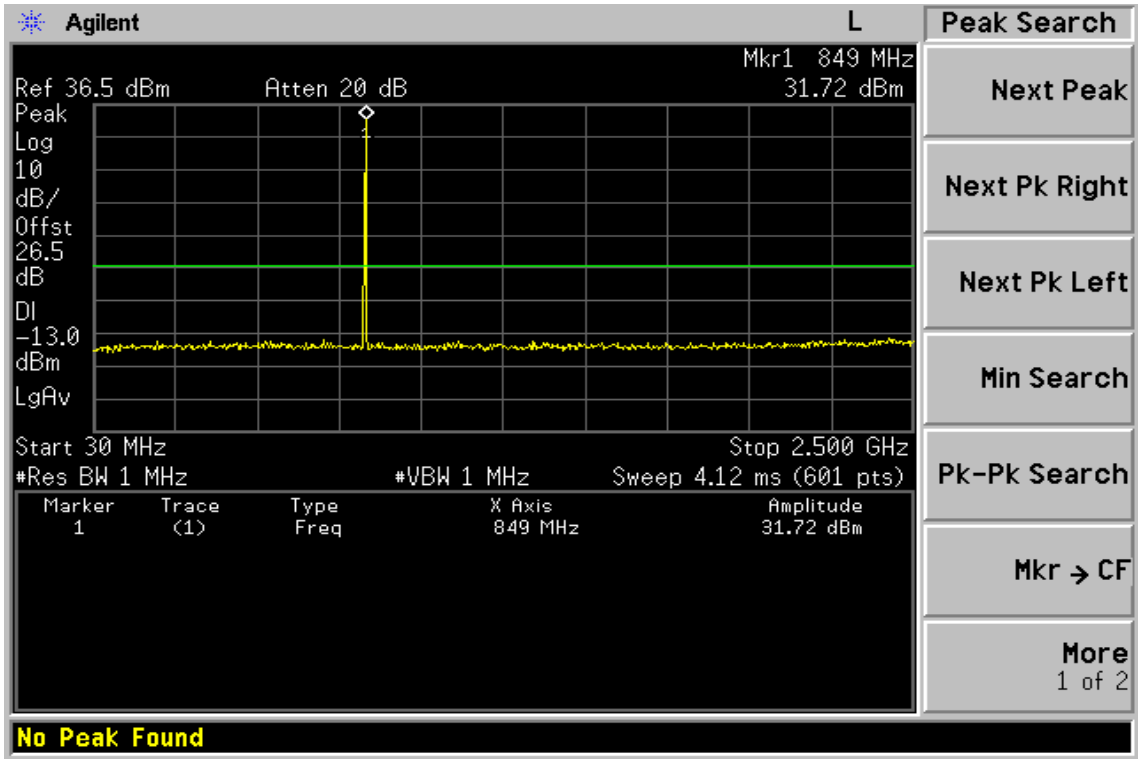


Figure 8-3: Out of Band emission at antenna terminals–GSM850 Channel Highest



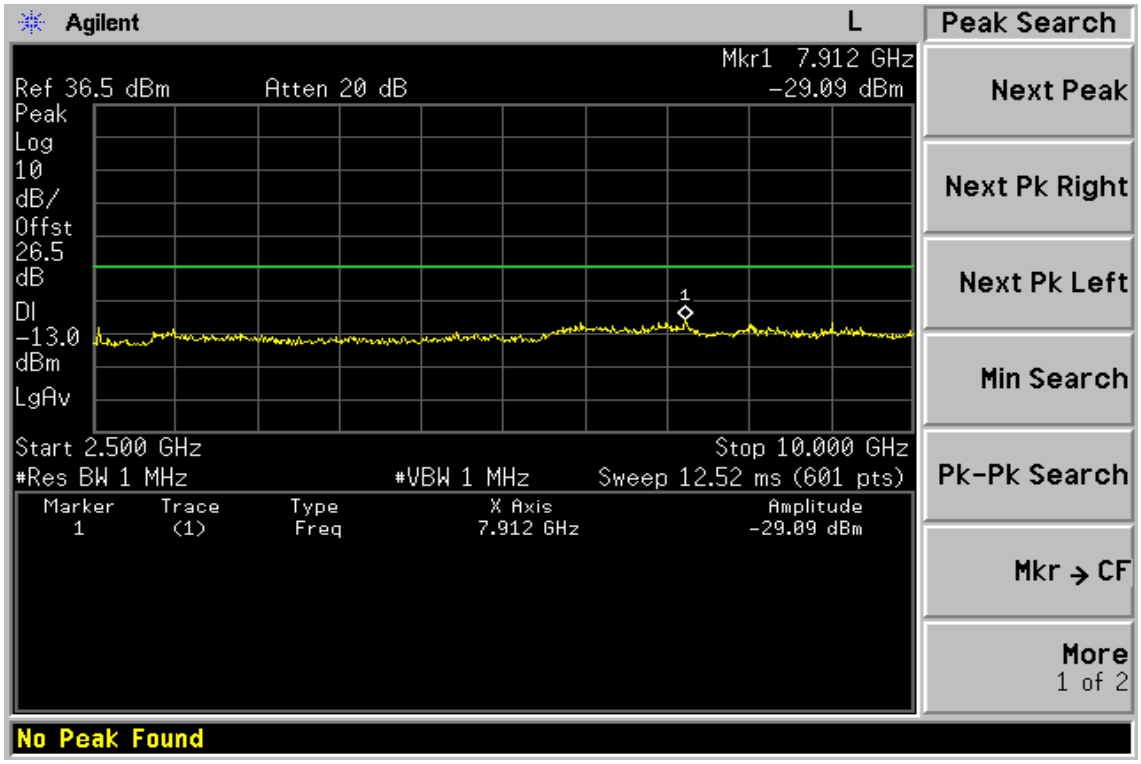


Figure 8-4: Bad edge emission at antenna terminals – GSM850 Channel Lowest

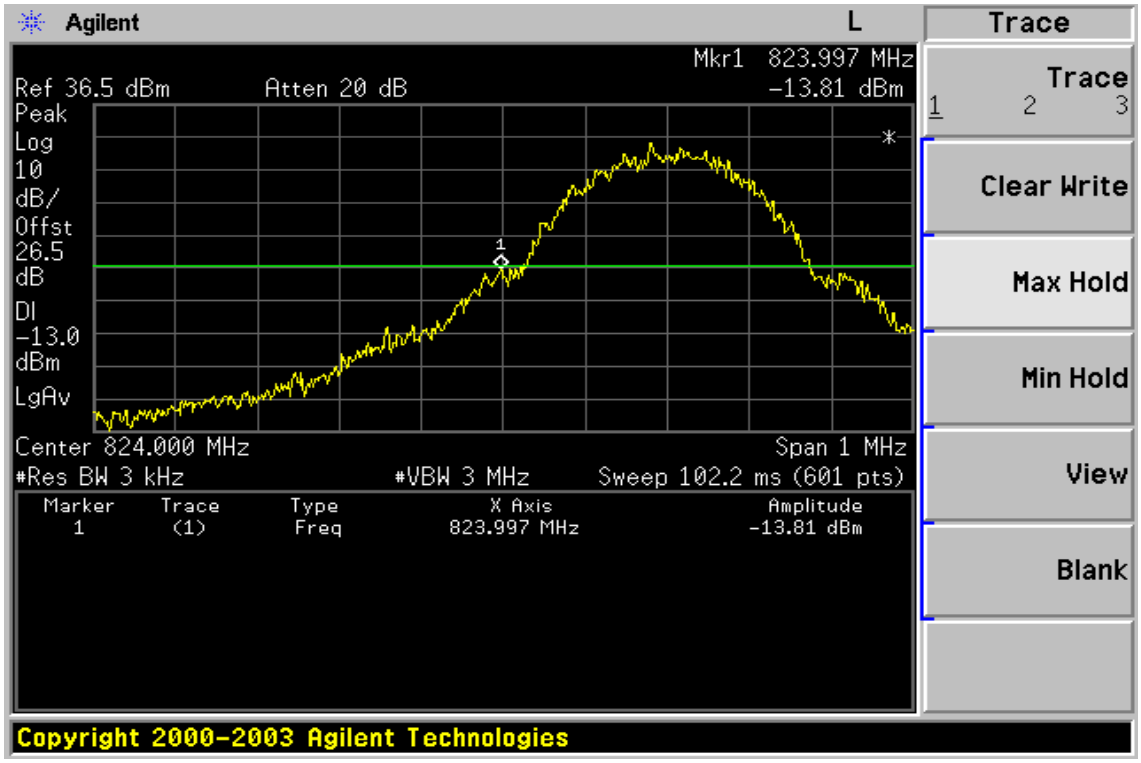


Figure 8-5: Band edge emission at antenna terminals – GSM850 Channel Highest

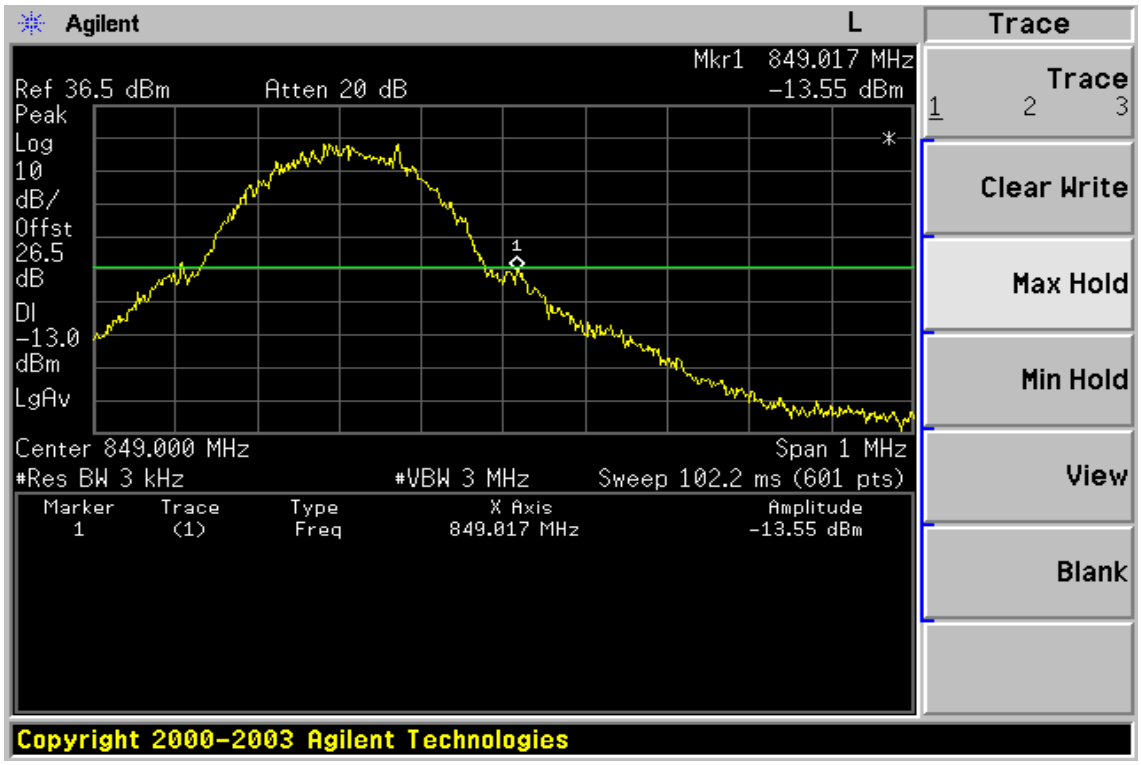
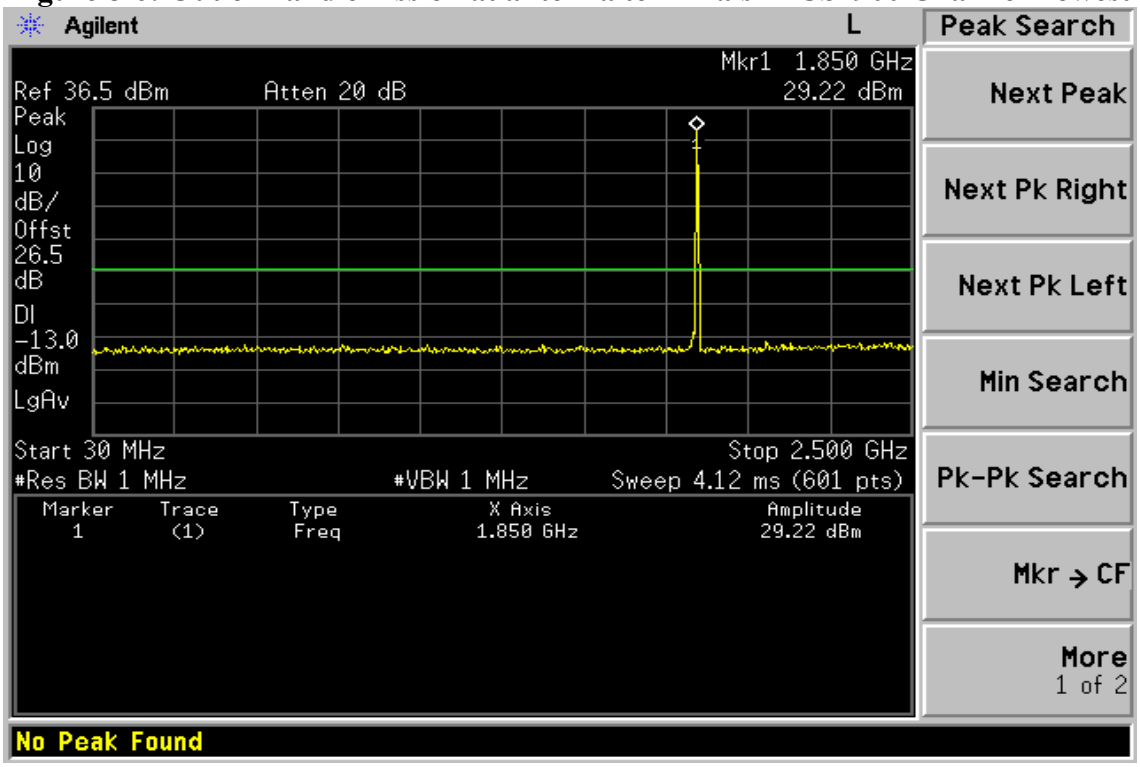


Figure 8-6: Out of Band emission at antenna terminals– PCS1900 Channel Lowest



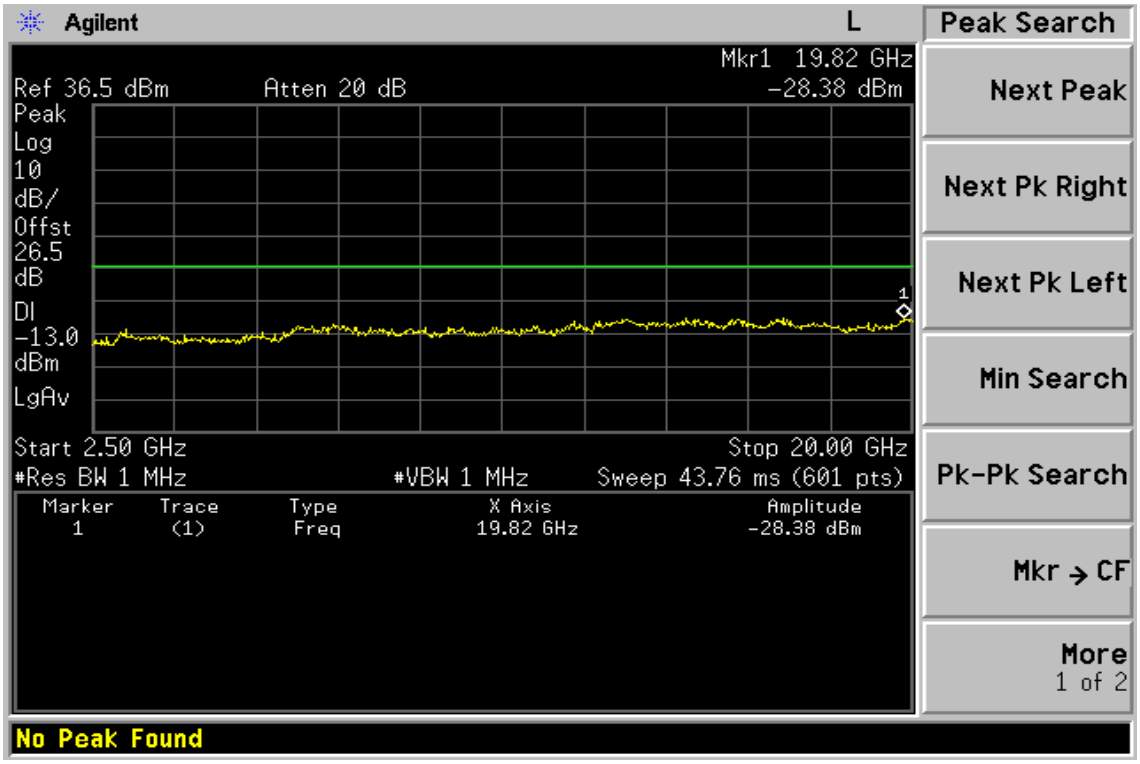
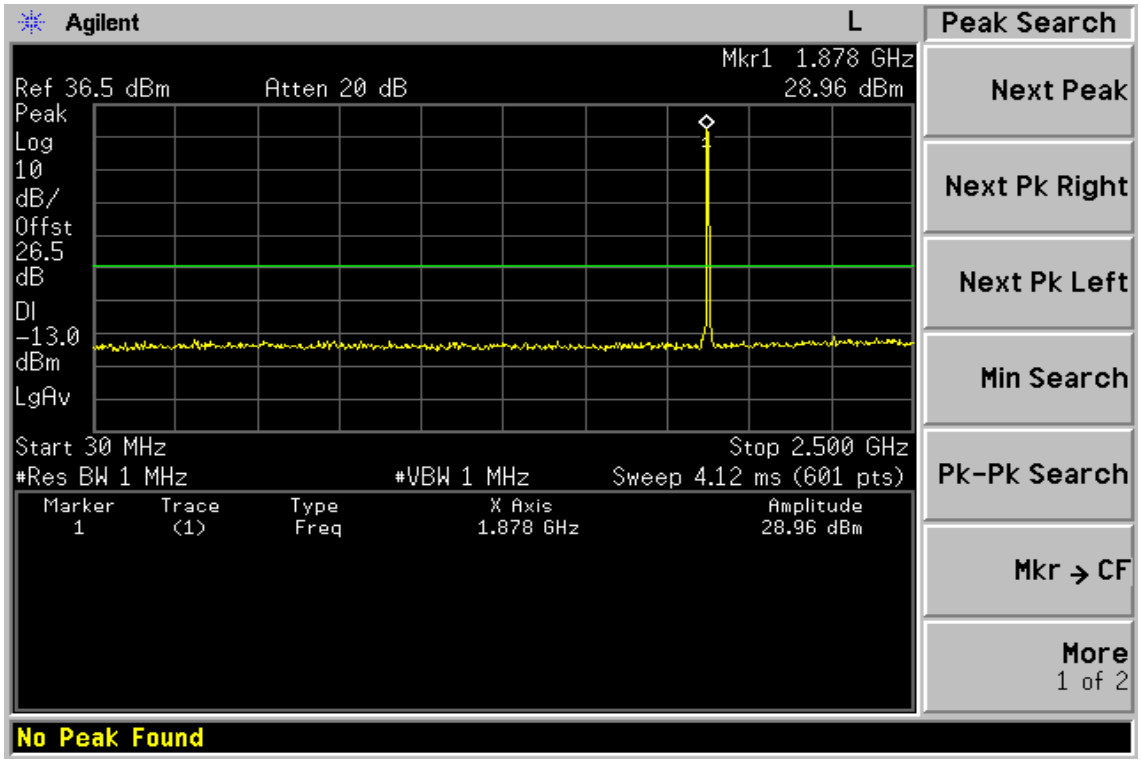


Figure 8-7: Out of Band emission at antenna terminals –PCS1900 Channel Mid



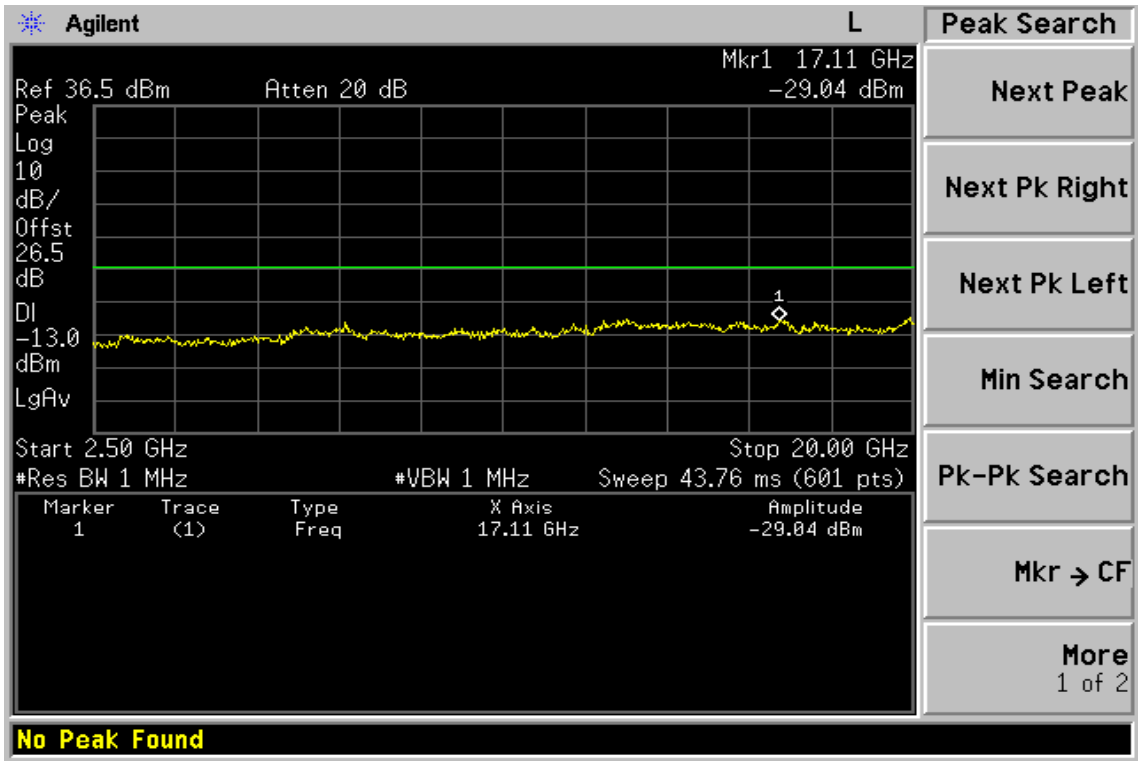
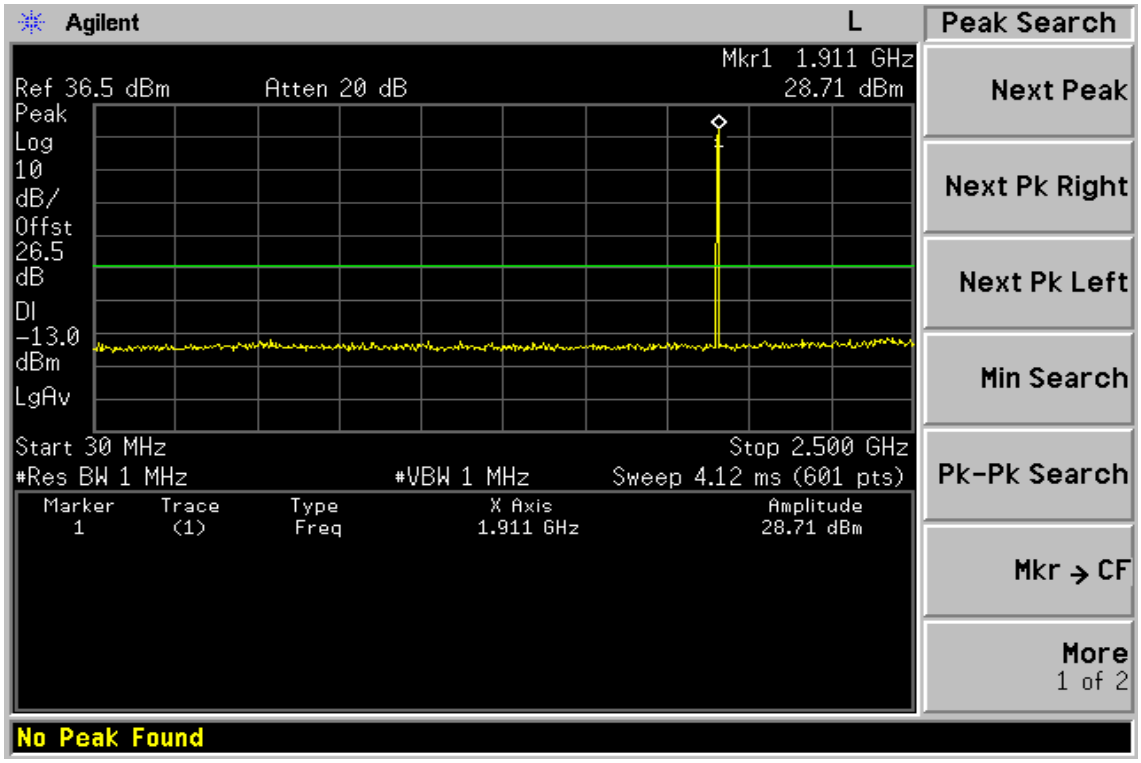


Figure 8-8: Out of Band emission at antenna terminals–PCS1900 Channel Highest



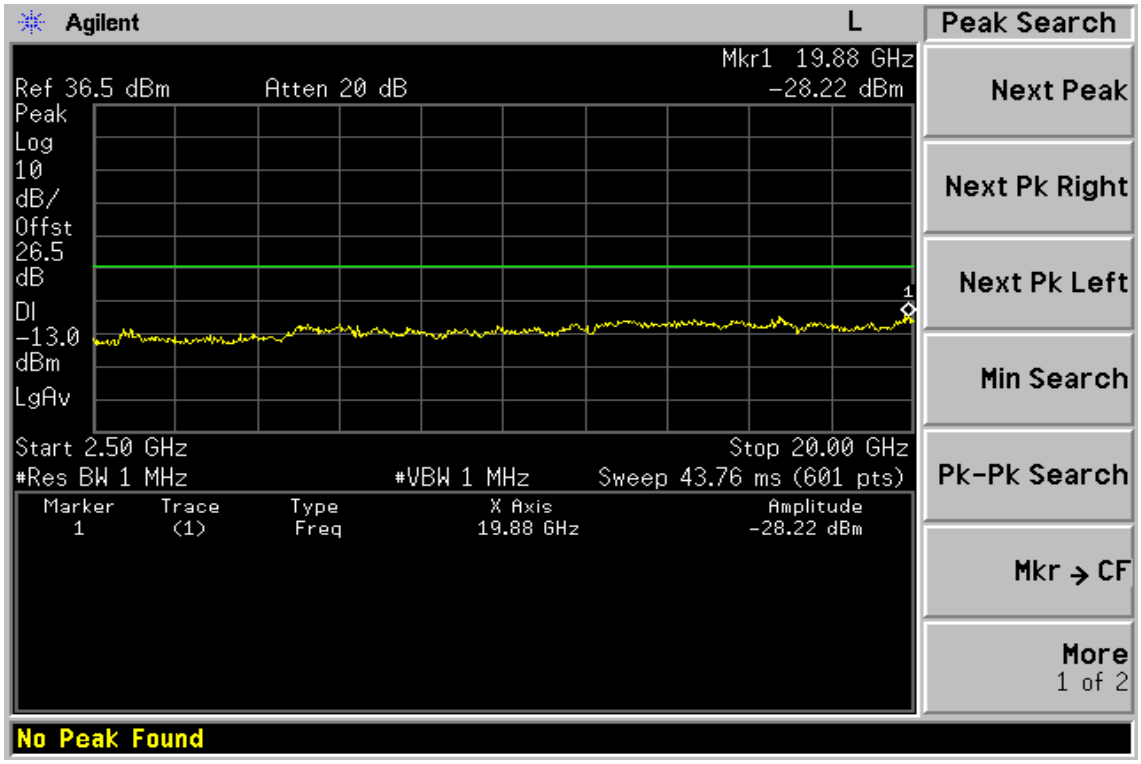


Figure 8-9: Bad edge emission at antenna terminals – PCS1900 Channel Lowest

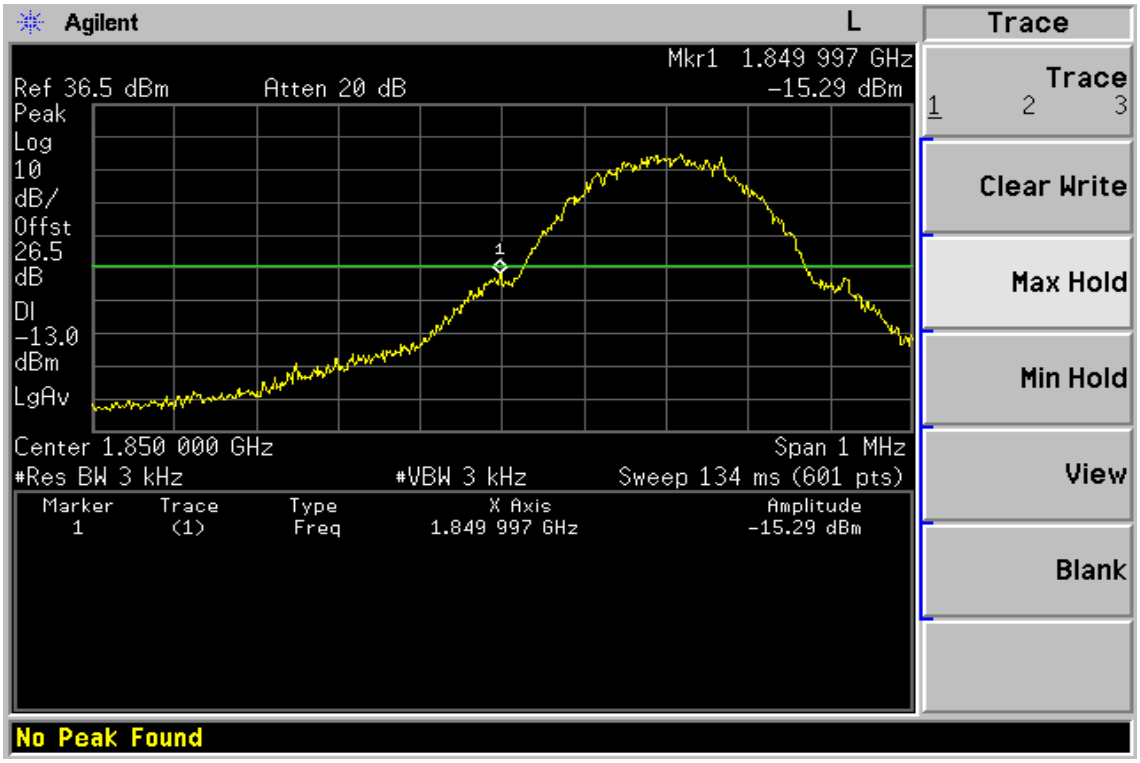
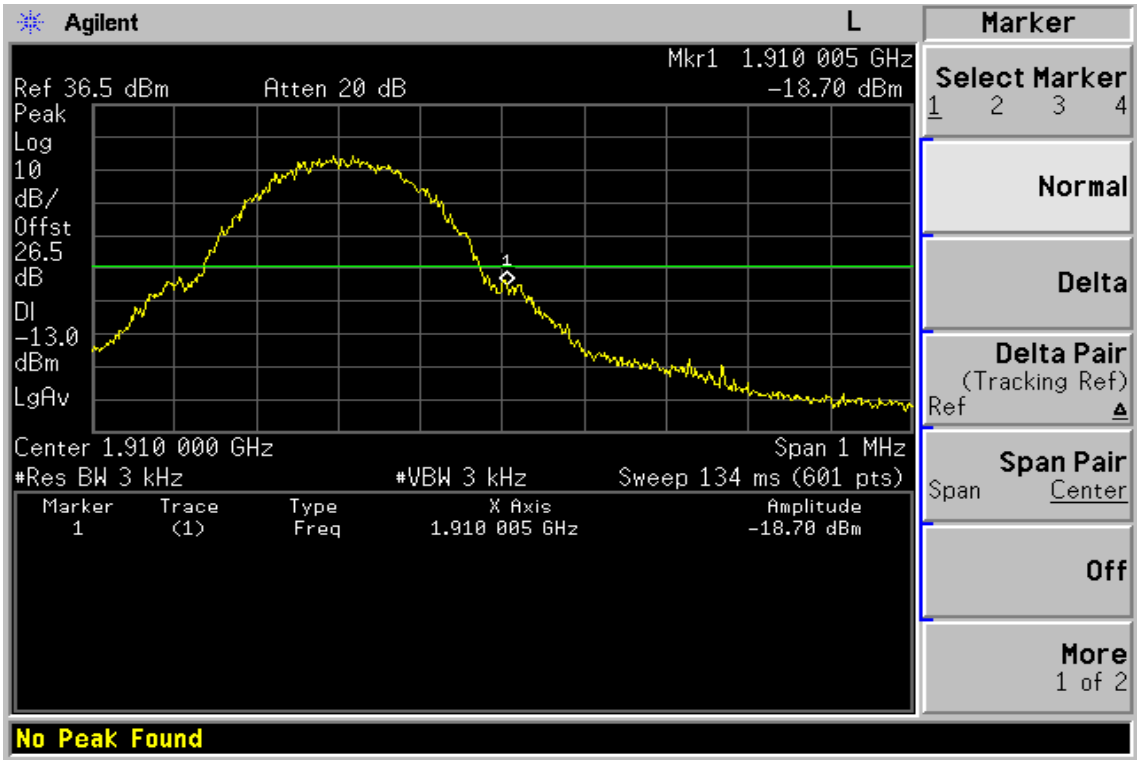


Figure 8-10: Band edge emission at antenna terminals – PCS1900 Channel Highest



9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

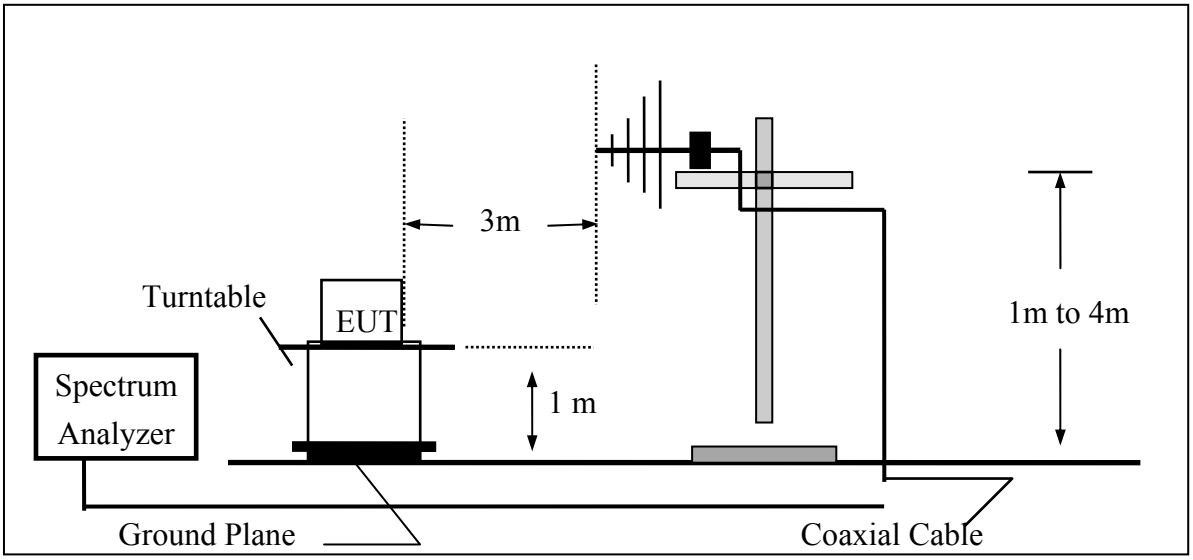
9.1 Standard Applicable

According to FCC §2.1053,

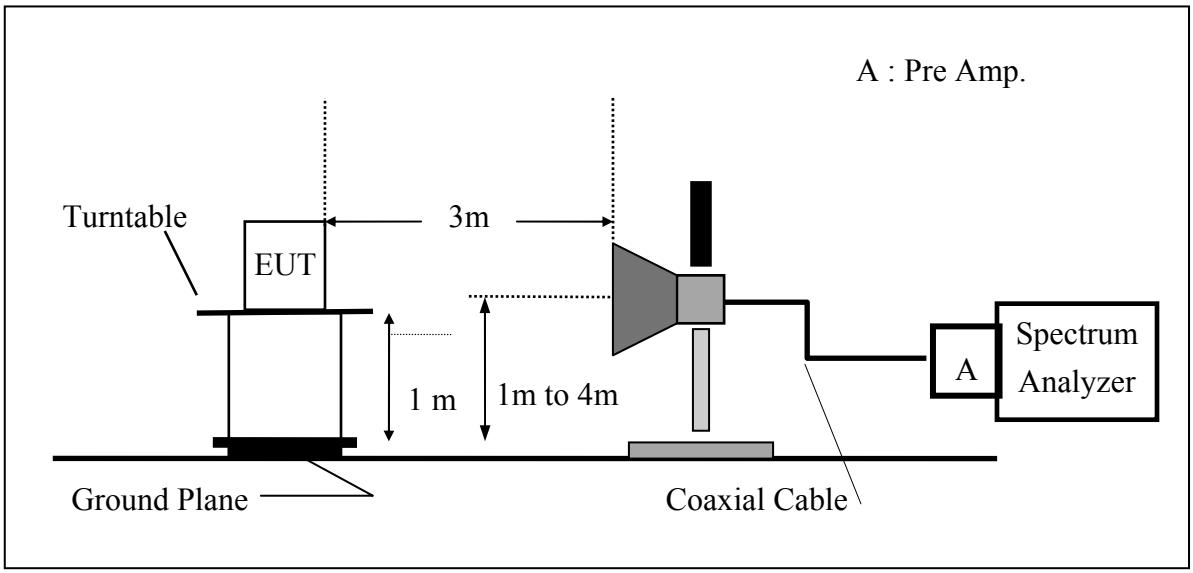
FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean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

9.2 EUT Setup (Block Diagram of Configuration)

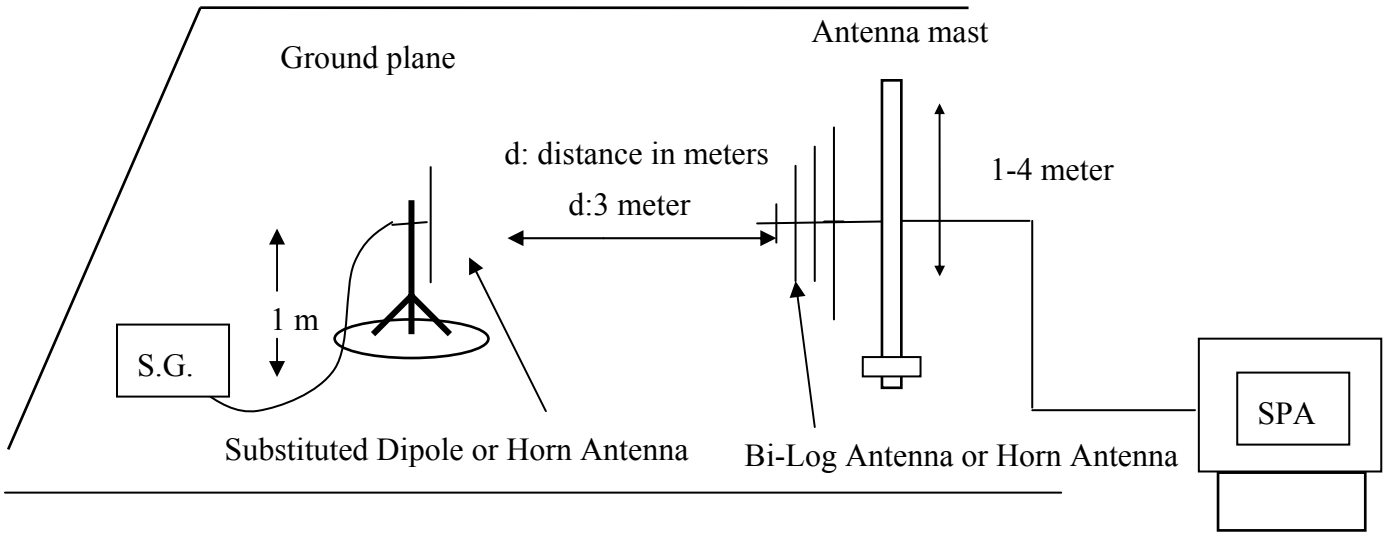
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



(C) Substituted Method Test Set-UP



9.3 Measurement Procedure

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

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

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

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

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

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-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

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:	Feb.27, 2006
Fundamental Frequency	: 824.20 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
31.94	40.54	V	-63.60	-6.43	0.70	-70.73	-13.00	-57.73
58.13	37.40	V	-73.10	-0.49	0.94	-74.52	-13.00	-61.52
823.99	82.92	V	-4.41	-7.87	3.64	-15.93	-13.00	-2.93
2472.60	46.82	V	-57.24	10.08	6.30	-53.47	-13.00	-40.47
3296.80	42.33	V	-60.25	12.17	7.26	-55.34	-13.00	-42.34
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 824.20 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	39.98	H	-65.92	-7.34	0.69	-73.95	-13.00	-60.95
56.19	36.56	H	-73.08	-0.51	0.93	-74.52	-13.00	-61.52
823.98	71.34	H	-16.32	-7.87	3.64	-27.84	-13.00	-14.84
2472.60	53.42	H	-50.64	10.08	6.30	-46.86	-13.00	-33.86
3296.80	43.00	H	-59.36	12.17	7.26	-54.45	-13.00	-41.45
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 836.60 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
31.94	40.07	V	-64.07	-6.43	0.70	-71.20	-13.00	-58.20
56.19	38.48	V	-71.18	-0.51	0.93	-72.62	-13.00	-59.62
1667.50	55.60	V	-51.43	9.35	5.09	-47.18	-13.00	-34.18
2509.80	54.89	V	-48.99	10.09	6.35	-45.25	-13.00	-32.25
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 836.60 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
41.64	39.56	H	-63.95	-2.31	0.80	-67.06	-13.00	-54.06
58.13	42.18	H	-68.25	-0.49	0.94	-69.68	-13.00	-56.68
1667.50	53.51	H	-53.49	9.35	5.09	-49.23	-13.00	-36.23
2509.80	55.27	H	-48.60	10.09	6.35	-44.86	-13.00	-31.86
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 848.8 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
31.94	40.97	V	-63.17	-6.43	0.70	-70.30	-13.00	-57.30
56.19	38.23	V	-71.43	-0.51	0.93	-72.87	-13.00	-59.87
849.02	83.41	V	-3.32	-7.88	3.75	-14.95	-13.00	-1.95
1690.00	59.48	V	-47.54	9.41	5.13	-43.26	-13.00	-30.26
2546.40	56.31	V	-47.48	10.20	6.40	-43.68	-13.00	-30.68
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 848.8 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
41.64	40.02	H	-63.49	-2.31	0.80	-66.60	-13.00	-53.60
58.13	44.60	H	-65.83	-0.49	0.94	-67.26	-13.00	-54.26
849.01	72.59	H	-14.43	-7.88	3.75	-26.05	-13.00	-13.05
2546.50	55.95	H	-47.83	10.20	6.40	-44.03	-13.00	-31.03
3395.20	44.10	H	-58.18	12.38	7.33	-53.13	-13.00	-40.13
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 1850.20MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
32.91	39.25	V	-64.61	-5.98	0.71	-71.30	-13.00	-58.30
159.98	40.12	V	-58.39	-7.81	1.49	-67.68	-13.00	-54.68
1850.00	79.58	V	-27.38	9.90	5.41	-22.89	-13.00	-9.89
3692.50	48.05	V	-53.56	12.61	7.71	-48.67	-13.00	-35.67
5550.60	41.53	V	-53.68	13.23	9.68	-50.14	-13.00	-37.14
7400.80	40.87	V	-45.13	11.50	11.28	-44.90	-13.00	-31.90
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 1850.20MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
36.79	40.32	H	-63.48	-4.16	0.75	-68.38	-13.00	-55.38
58.13	44.12	H	-66.31	-0.49	0.94	-67.74	-13.00	-54.74
1849.99	83.25	H	-23.64	9.90	5.41	-19.15	-13.00	-6.15
3527.50	39.01	H	-63.07	12.61	7.45	-57.92	-13.00	-44.92
5550.60	43.15	H	-51.98	13.23	9.68	-48.43	-13.00	-35.43
7400.80	43.50	H	-42.56	11.50	11.28	-42.34	-13.00	-29.34
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 1880MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
31.94	40.77	V	-63.37	-6.43	0.70	-70.50	-13.00	-57.50
121.18	39.35	V	-61.77	-7.78	1.32	-70.87	-13.00	-57.87
1877.50	64.89	V	-42.06	9.98	5.45	-37.53	-13.00	-24.53
5642.50	41.40	V	-53.55	13.36	9.73	-49.92	-13.00	-36.92
7517.50	39.72	V	-45.90	11.45	11.33	-45.78	-13.00	-32.78
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 1880MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
41.64	40.71	H	-62.80	-2.31	0.80	-65.91	-13.00	-52.91
58.13	44.11	H	-66.32	-0.49	0.94	-67.75	-13.00	-54.75
1877.50	67.34	H	-39.53	9.98	5.45	-35.01	-13.00	-22.01
3917.50	44.59	H	-55.86	12.60	8.07	-51.33	-13.00	-38.33
7517.50	43.60	H	-42.10	11.45	11.33	-41.98	-13.00	-28.98
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 1909.8 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
31.94	40.34	V	-63.80	-6.43	0.70	-70.93	-13.00	-57.93
58.13	38.61	V	-71.89	-0.49	0.94	-73.31	-13.00	-60.31
1910.02	77.57	V	-29.37	10.08	5.51	-24.80	-13.00	-11.80
3527.50	39.87	V	-62.50	12.61	7.45	-57.35	-13.00	-44.35
7052.50	37.65	V	-49.42	11.63	11.16	-48.95	-13.00	-35.95
7963.20	38.45	V	-45.50	11.27	11.88	-46.11	-13.00	-33.11
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date:	Feb.27, 2006
Fundamental Frequency	: 1909.8 MHz	Test By:	Danny
Temperature	: 25℃	Pol:	Hor.
Humidity	: 65%	Adaptor Model:	3DS09371AGAA
		Supplier:	Astec

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)
41.64	41.16	H	-62.35	-2.31	0.80	-65.46	-13.00	-52.46
58.13	44.49	H	-65.94	-0.49	0.94	-67.37	-13.00	-54.37
1910.00	82.68	H	-24.17	10.08	5.51	-19.61	-13.00	-6.61
3527.50	41.12	H	-60.96	12.61	7.45	-55.81	-13.00	-42.81
3977.50	48.34	H	-51.85	12.60	8.17	-47.42	-13.00	-34.42
7052.50	48.38	H	-38.74	11.63	11.16	-38.27	-13.00	-25.27
7963.20	44.45	H	-39.74	11.27	11.88	-40.34	-13.00	-27.34
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 Setting(dBm) + Antenna Gain (dBd/dBi) – Cable loss (dB)

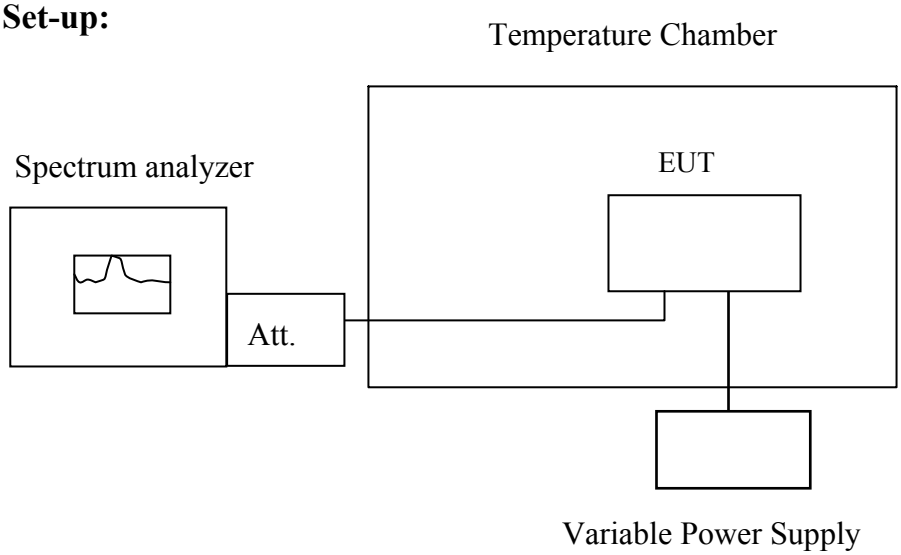
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

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-corded 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	03/29/2005	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-Circult	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circult	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

10.5 Measurement Result

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	836.600011	7.00	2091
3.7	-20	836.600015	3.00	2091
3.7	-10	836.60000	23.00	2091
3.7	0	836.60001	12.00	2091
3.7	10	836.60001	13.00	2091
3.7	20	836.60002	0.00	2091
3.7	30	836.60000	17.00	2091
3.7	40	836.60001	6.00	2091
3.7	50	836.60002	0.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	1879.99996	6.00	4700
3.7	-20	1879.99995	15.00	4700
3.7	-10	1879.99997	-2.00	4700
3.7	0	1879.99997	3.00	4700
3.7	10	1879.99998	-15.00	4700
3.7	20	1879.99997	0.00	4700
3.7	30	1879.99996	12.00	4700
3.7	40	1879.99996	6.00	4700
3.7	50	1879.99991	63.00	4700

Note: The battery is rated 3.7V dc.

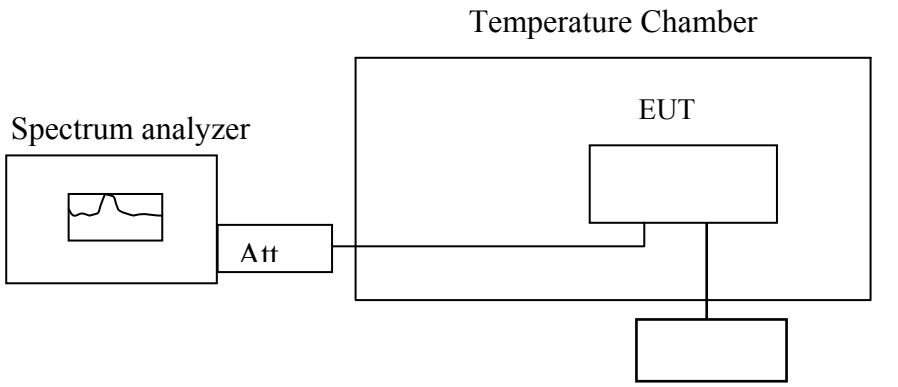
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

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℃. 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
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-Circult	BW-S10W5	N/A	09/23/2005	09/22/2006
Attenuator	Mini-Circult	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℃				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.26	25.00	836.600011	0.00	2091.00
3.70	25.00	836.600004	7.00	2091.00
3.50	25.00	836.600014	-3.00	2091.00
3.4 (End Point)	25.00	836.60001	0.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25℃				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.26	25	1879.999972	0.00	4700
3.7	25	1879.999971	1.00	4700
3.4	25	1879.999977	-5.00	4700
3.3 (Endpoint)	25	1879.99998	-3.00	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 adaptort and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

12.3 Measurement Procedure

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

12.4 Measurement Equipment Used:

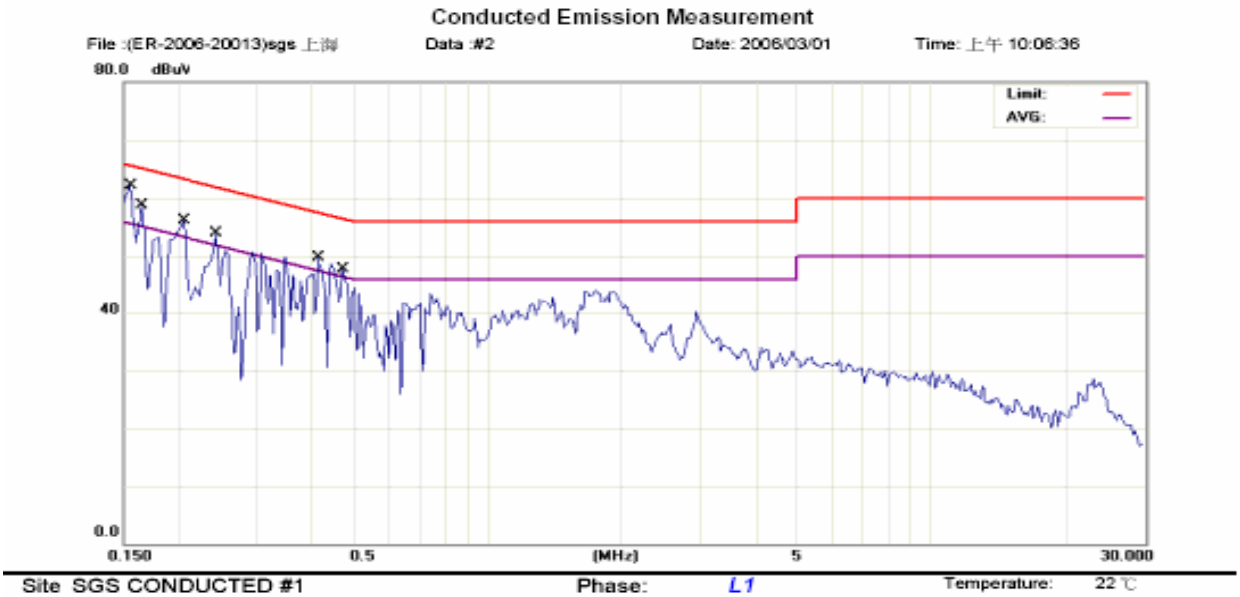
Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMC Analyzer	HP	8594EM	3624A00203	09/02/2005	09/03/2006
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2005	06/10/2006
Transient Limiter	HP	11947A	3107A02062	09/02/2005	09/03/2006
LISN	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	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Line
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	:Astec

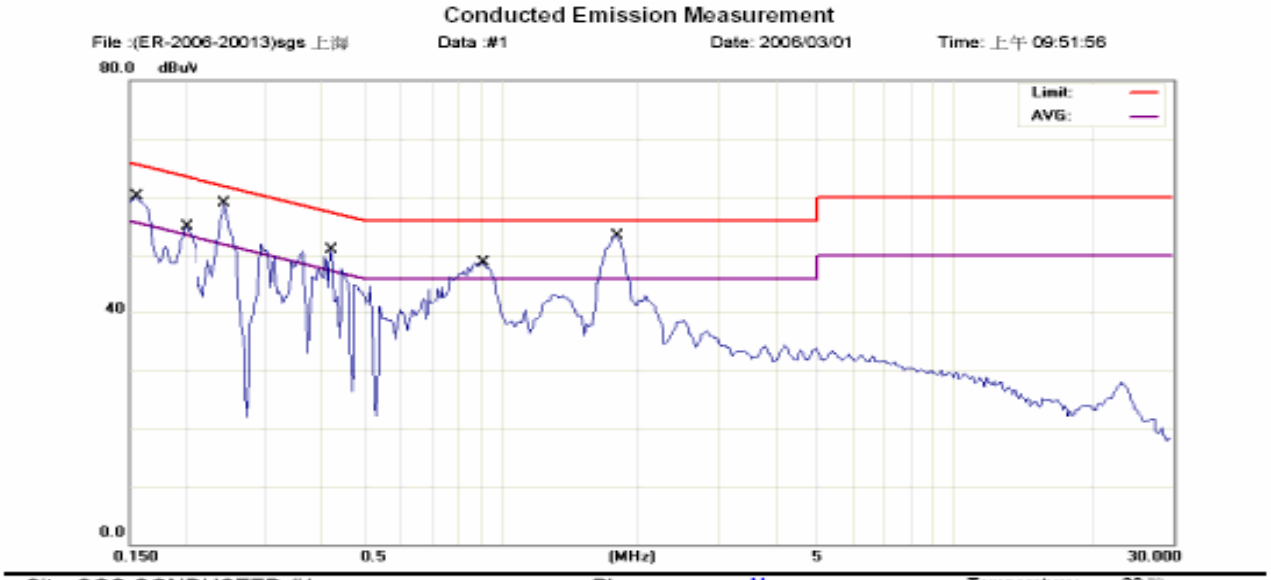


Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 22 ℃
Limit: CISPR22 Class B Conduction(QP) | Power: AC 110V/60Hz | Humidity: 58 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: E5La
Note: GSM 850 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1550	55.30	0.69	55.99	65.73	-9.74	QP	
2		0.1550	36.80	0.69	37.49	55.73	-18.24	AVG	
3		0.1650	45.00	0.70	45.70	65.21	-19.51	QP	
4		0.1650	32.80	0.70	33.50	55.21	-21.71	AVG	
5		0.2050	51.30	0.75	52.05	63.41	-11.36	QP	
6		0.2050	31.90	0.75	32.65	53.41	-20.76	AVG	
7		0.2450	48.60	0.77	49.37	61.92	-12.55	QP	
8		0.2450	36.90	0.77	37.67	51.92	-14.25	AVG	
9		0.4150	40.50	0.84	41.34	57.55	-16.21	QP	
10		0.4150	27.60	0.84	28.44	47.55	-19.11	AVG	
11		0.4700	38.50	0.87	39.37	56.51	-17.14	QP	
12		0.4700	23.00	0.87	23.87	46.51	-22.64	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Neutral
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	:Astec

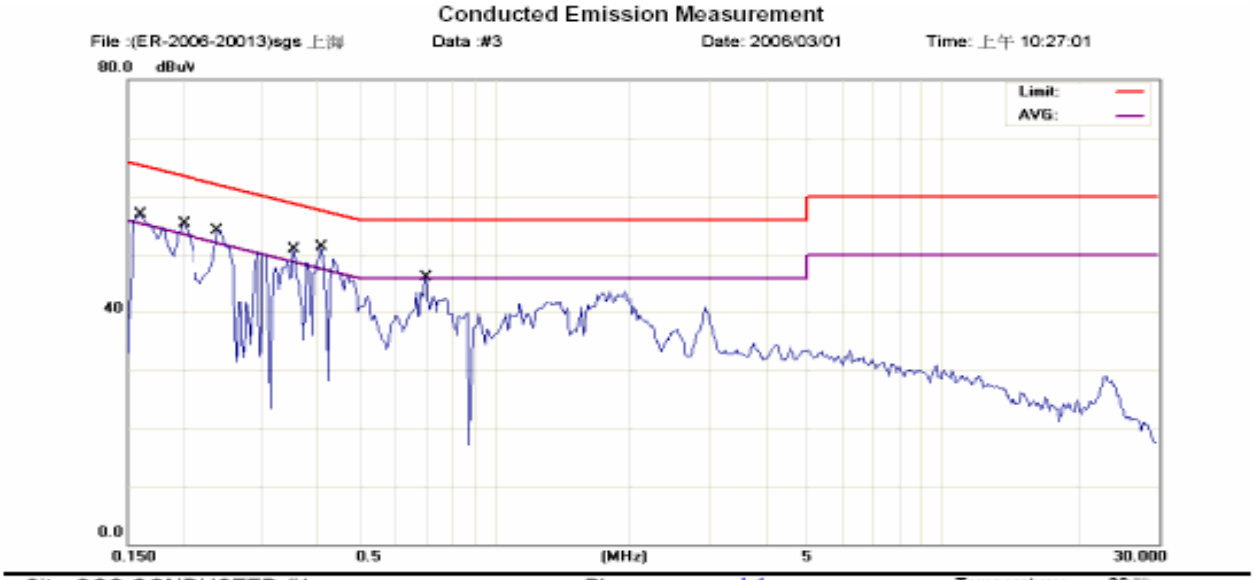


Site SGS CONDUCTED #1 | Phase: N | Temperature: 22 ℃
Limit: CISPR22 Class B Conduction(QP) | Power: AC 110V/60Hz | Humidity: 58 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: E5La
Note: GSM 850 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	54.30	0.69	54.99	65.73	-10.74	QP	
2		0.1550	42.10	0.69	42.79	55.73	-12.94	AVG	
3		0.2000	51.30	0.75	52.05	63.61	-11.56	QP	
4		0.2000	37.20	0.75	37.95	53.61	-15.66	AVG	
5		0.2450	54.70	0.77	55.47	61.92	-6.45	QP	
6	*	0.2450	46.50	0.77	47.27	51.92	-4.65	AVG	
7		0.4200	43.90	0.85	44.75	57.45	-12.70	QP	
8		0.4200	30.70	0.85	31.55	47.45	-15.90	AVG	
9		0.9100	45.70	0.63	46.33	56.00	-9.67	QP	
10		0.9100	34.80	0.63	35.43	46.00	-10.57	AVG	
11		1.7850	47.80	0.63	48.43	56.00	-7.57	QP	
12		1.7850	29.40	0.63	30.03	46.00	-15.97	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Line
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	:Astec



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: MOBILE PHONE
M/N: E5La
Note: GSM 1900 //CHARGE & OPERATION MODE

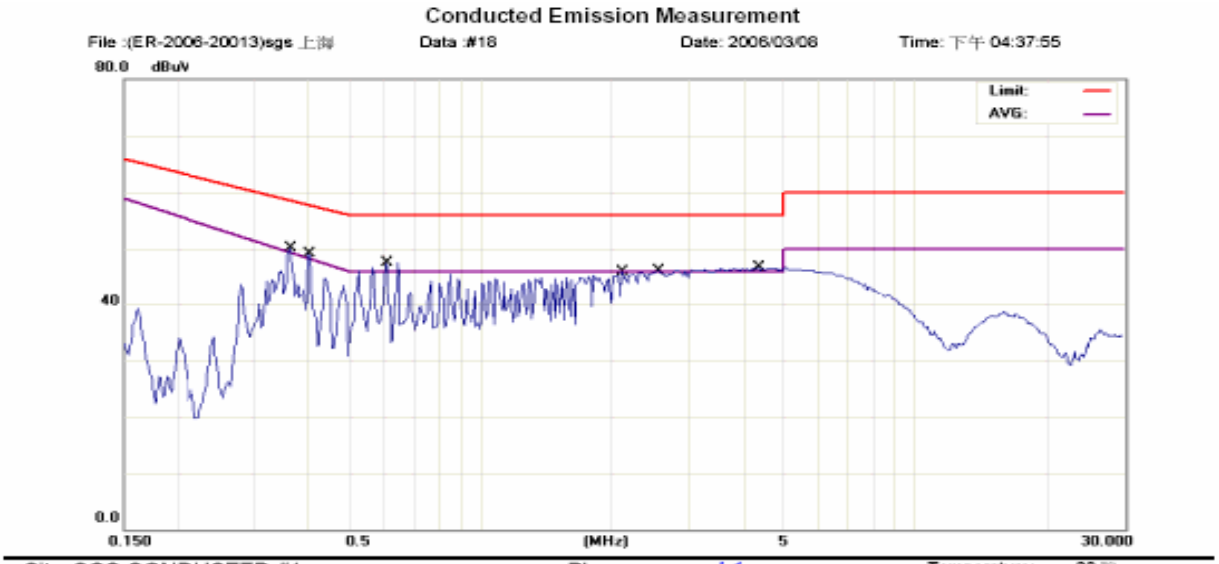
Phase: L1
Power: AC 110V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1600	55.70	0.69	56.39	65.46	-9.07	QP	
2		0.1600	37.60	0.69	38.29	55.46	-17.17	AVG	
3		0.2000	51.50	0.75	52.25	63.61	-11.36	QP	
4		0.2000	31.90	0.75	32.65	53.61	-20.96	AVG	
5		0.2400	48.80	0.77	49.57	62.10	-12.53	QP	
6		0.2400	35.60	0.77	36.37	52.10	-15.73	AVG	
7		0.3550	44.50	0.82	45.32	58.84	-13.52	QP	
8		0.3550	28.30	0.82	29.12	48.84	-19.72	AVG	
9		0.4100	41.40	0.84	42.24	57.65	-15.41	QP	
10		0.4100	25.30	0.84	26.14	47.65	-21.51	AVG	
11		0.7000	33.40	0.76	34.16	56.00	-21.84	QP	
12		0.7000	18.50	0.76	19.26	46.00	-26.74	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Neutral
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	: Leader

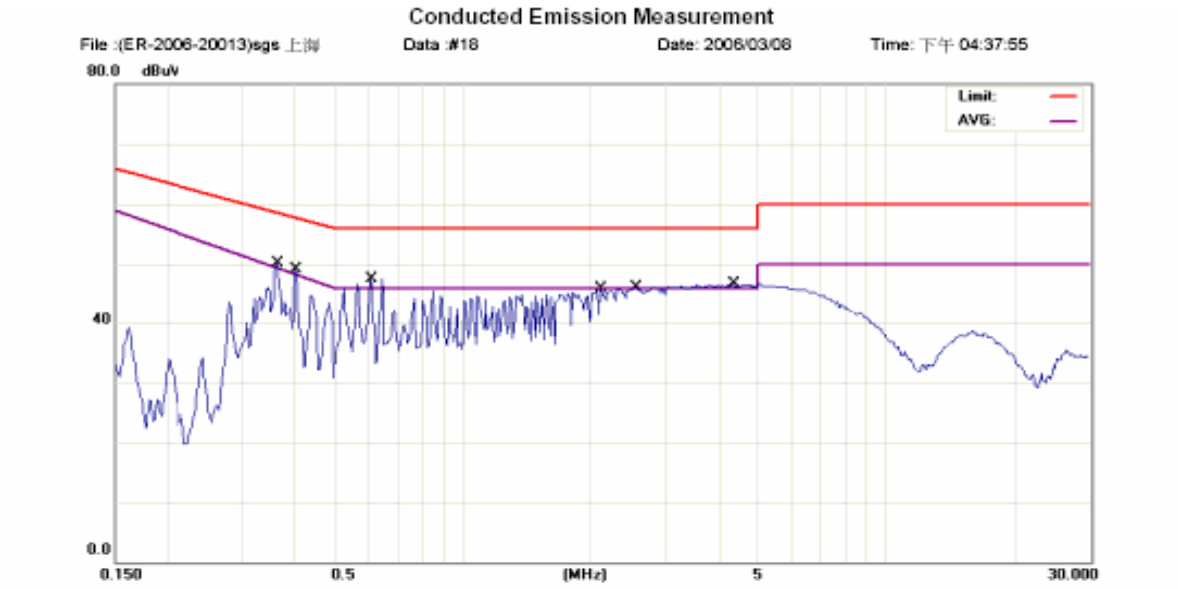


Site SGS CONDUCTED #1 | Phase: L1 | Temperature: 22 ℃
Limit: CISPR14(QP) | Power: AC 120V/60Hz | Humidity: 58 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: 3DS09371AAAA(黑底)
Note: GSM 850 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3648	48.16	0.82	48.98	58.62	-9.64	QP	
2		0.3648	45.02	0.82	45.84	49.40	-3.56	AVG	
3		0.4039	47.82	0.84	48.66	57.77	-9.11	QP	
4	*	0.4039	45.80	0.84	46.64	48.30	-1.66	AVG	
5		0.6070	45.65	0.82	46.47	56.00	-9.53	QP	
6		0.6070	43.17	0.82	43.99	46.00	-2.01	AVG	
7		2.1031	44.45	0.75	45.20	56.00	-10.80	QP	
8		2.1031	39.65	0.75	40.40	46.00	-5.60	AVG	
9		2.5484	44.41	0.76	45.17	56.00	-10.83	QP	
10		2.5484	40.81	0.76	41.57	46.00	-4.43	AVG	
11		4.3297	44.39	0.78	45.17	56.00	-10.83	QP	
12		4.3297	36.53	0.78	37.31	46.00	-8.69	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Line
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	: Leader



Site SGS CONDUCTED #1
Limit: CISPR14(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA(黑底)
Note: GSM 850 //CHARGE & OPERATION MODE

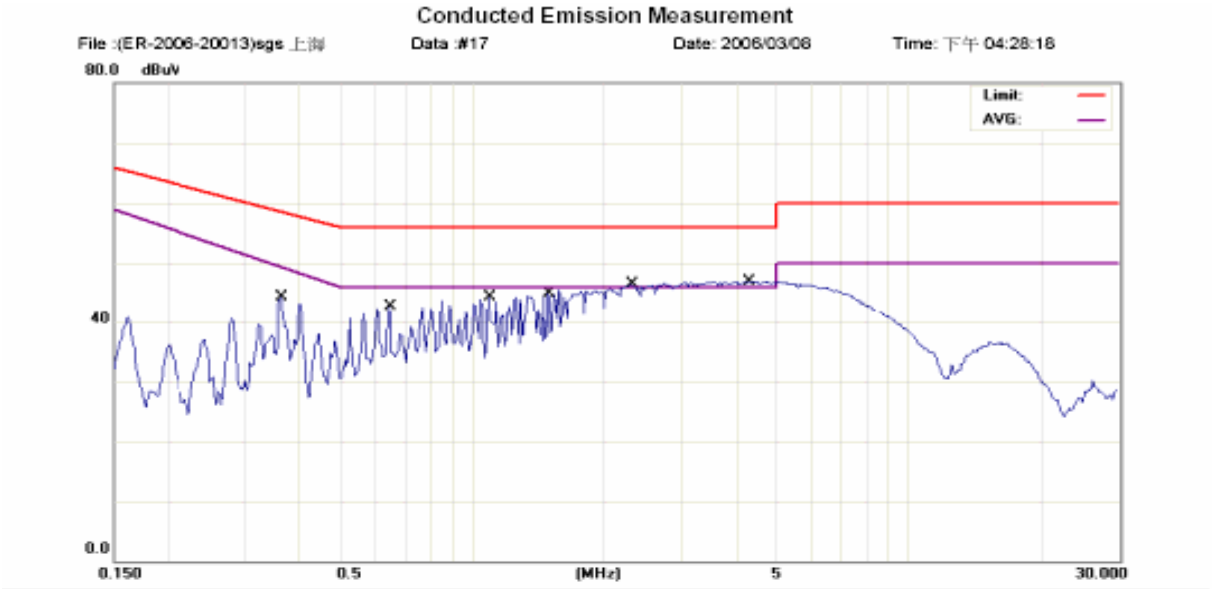
Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3648	48.16	0.82	48.98	58.62	-9.64	QP	
2		0.3648	45.02	0.82	45.84	49.40	-3.56	AVG	
3		0.4039	47.82	0.84	48.66	57.77	-9.11	QP	
4	*	0.4039	45.80	0.84	46.64	48.30	-1.66	AVG	
5		0.6070	45.65	0.82	46.47	56.00	-9.53	QP	
6		0.6070	43.17	0.82	43.99	46.00	-2.01	AVG	
7		2.1031	44.45	0.75	45.20	56.00	-10.80	QP	
8		2.1031	39.65	0.75	40.40	46.00	-5.60	AVG	
9		2.5484	44.41	0.76	45.17	56.00	-10.83	QP	
10		2.5484	40.81	0.76	41.57	46.00	-4.43	AVG	
11		4.3297	44.39	0.78	45.17	56.00	-10.83	QP	
12		4.3297	36.53	0.78	37.31	46.00	-8.69	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Neutral
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	: Leader

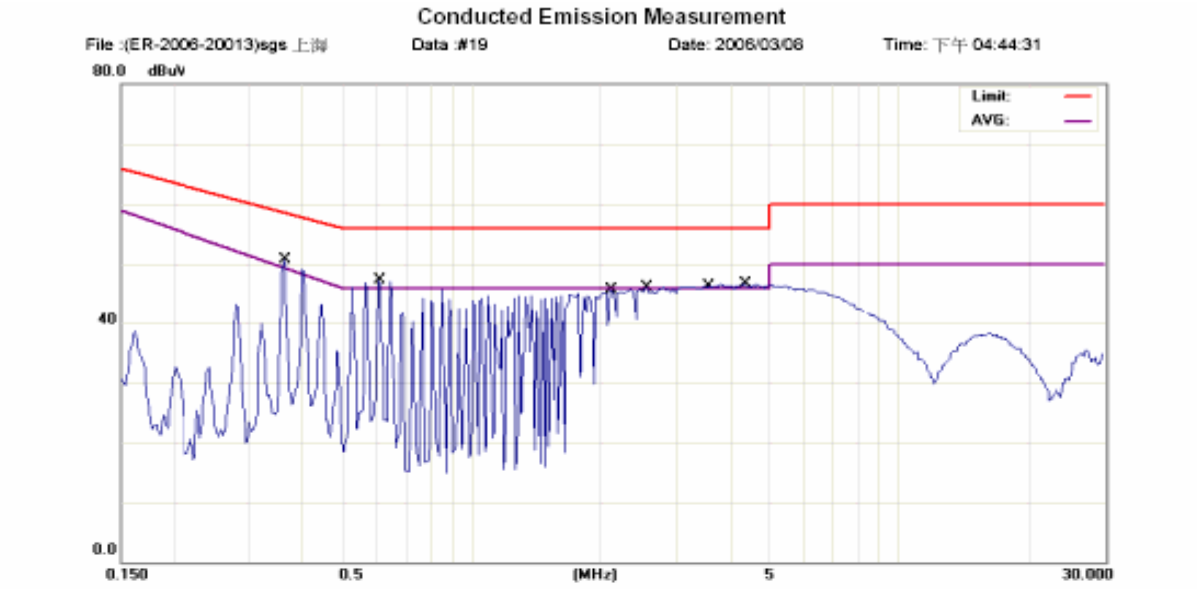


Site SGS CONDUCTED #1 | Phase: N | Temperature: 22 ℃
Limit: CISPR14(QP) | Power: AC 120V/60Hz | Humidity: 58 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: 3DS09371AAAA(黑底)
Note: GSM 850 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3648	41.57	0.82	42.39	58.62	-16.23	QP	
2		0.3648	33.19	0.82	34.01	49.40	-15.39	AVG	
3		0.6461	40.49	0.79	41.28	56.00	-14.72	QP	
4		0.6461	38.82	0.79	39.61	46.00	-6.39	AVG	
5		1.0914	42.46	0.60	43.06	56.00	-12.94	QP	
6	*	1.0914	41.18	0.60	41.78	46.00	-4.22	AVG	
7		1.4937	42.79	0.66	43.45	56.00	-12.55	QP	
8		1.4937	40.46	0.66	41.12	46.00	-4.88	AVG	
9		2.3023	42.34	0.75	43.09	56.00	-12.91	QP	
10		2.3023	39.57	0.75	40.32	46.00	-5.68	AVG	
11		4.2828	44.53	0.78	45.31	56.00	-10.69	QP	
12		4.2828	39.13	0.78	39.91	46.00	-6.09	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Line
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	: Leader



Site SGS CONDUCTED #1
Limit: CISPR14(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA(黑底)
Note: GSM 1900 //CHARGE & OPERATION MODE

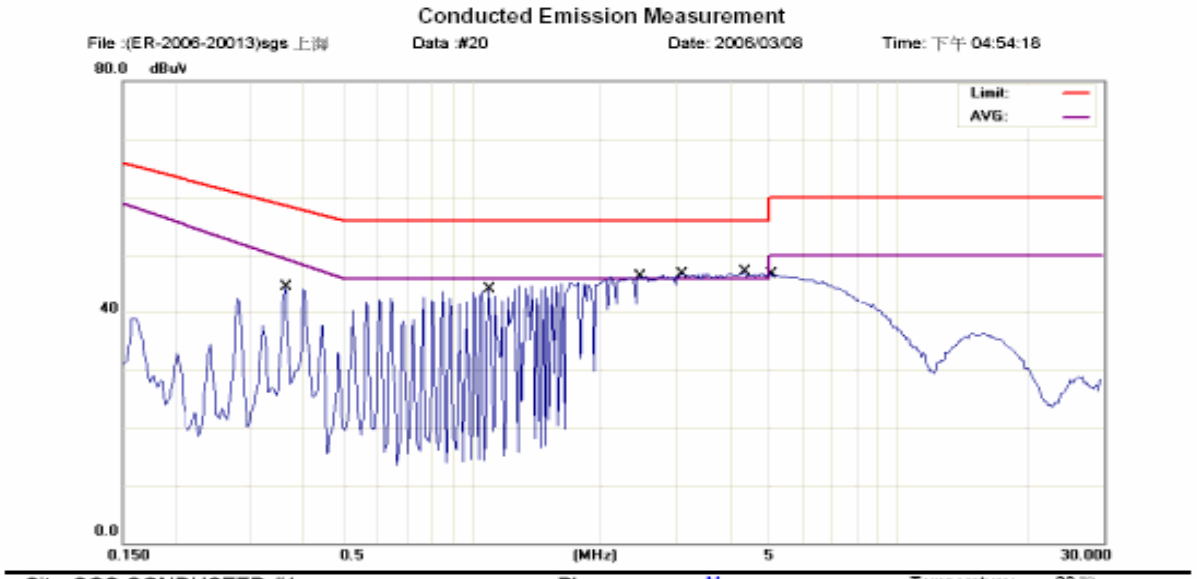
Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 22 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3648	47.96	0.82	48.78	58.62	-9.84	QP	
2		0.3648	44.42	0.82	45.24	49.40	-4.16	AVG	
3		0.6070	43.02	0.82	43.84	56.00	-12.16	QP	
4	*	0.6070	41.58	0.82	42.40	46.00	-3.60	AVG	
5		2.1031	44.40	0.75	45.15	56.00	-10.85	QP	
6		2.1031	39.95	0.75	40.70	46.00	-5.30	AVG	
7		2.5484	44.45	0.76	45.21	56.00	-10.79	QP	
8		2.5484	40.92	0.76	41.68	46.00	-4.32	AVG	
9		3.5602	40.86	0.77	41.63	56.00	-14.37	QP	
10		3.5602	35.84	0.77	36.61	46.00	-9.39	AVG	
11		4.3297	40.50	0.78	41.28	56.00	-14.72	QP	
12		4.3297	32.80	0.78	33.58	46.00	-12.42	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 22℃	Pol	:Neutral
Humidity	: 58%	Adaptor Model	:3DS09371AGAA
Test Voltage	:120Vac	Supplier	: Leader

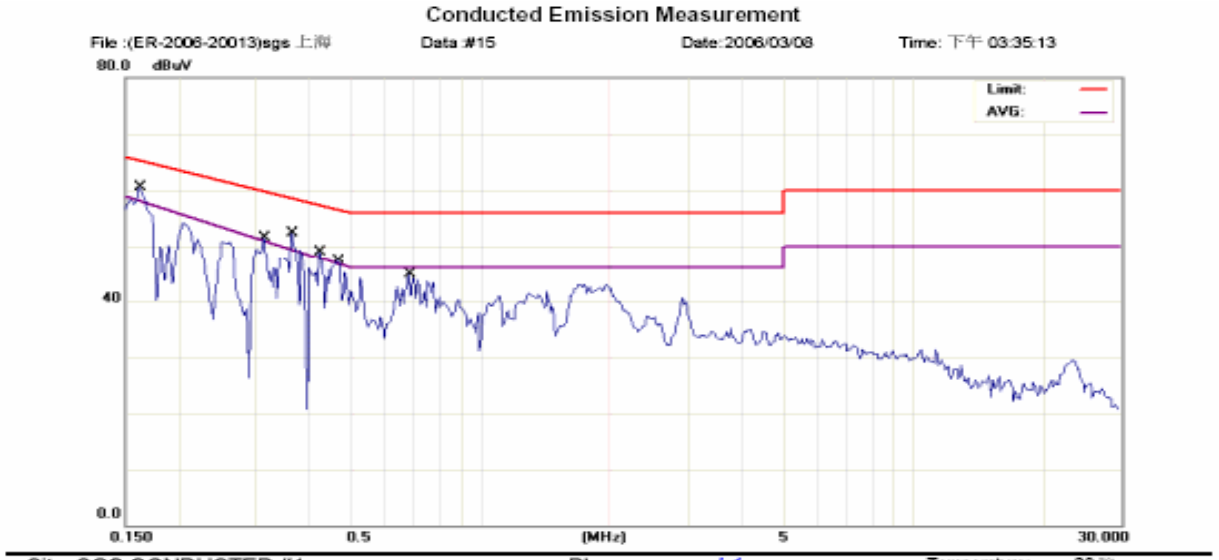


Site SGS CONDUCTED #1 | Phase: N | Temperature: 22 ℃
Limit: CISPR14(QP) | Power: AC 120V/60Hz | Humidity: 58 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: 3DS09371AAAA(黑底)
Note: GSM 1900 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3648	42.82	0.82	43.64	58.62	-14.98	QP	
2		0.3648	34.76	0.82	35.58	49.40	-13.82	AVG	
3		1.0914	42.90	0.60	43.50	56.00	-12.50	QP	
4		1.0914	36.05	0.60	36.65	46.00	-9.35	AVG	
5		2.4664	44.93	0.75	45.68	56.00	-10.32	QP	
6	*	2.4664	42.16	0.75	42.91	46.00	-3.09	AVG	
7		3.0758	44.95	0.76	45.71	56.00	-10.29	QP	
8		3.0758	39.89	0.76	40.65	46.00	-5.35	AVG	
9		4.3297	45.08	0.78	45.86	56.00	-10.14	QP	
10		4.3297	38.38	0.78	39.16	46.00	-6.84	AVG	
11		5.0563	44.86	0.80	45.66	60.00	-14.34	QP	
12		5.0563	39.86	0.80	40.66	50.00	-9.34	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Line
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	:220Vac	Supplier	:Astec



Site SGS CONDUCTED #1
Limit: CISPR14(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA(白底)
Note: GSM 850 //CHARGE & OPERATION MODE

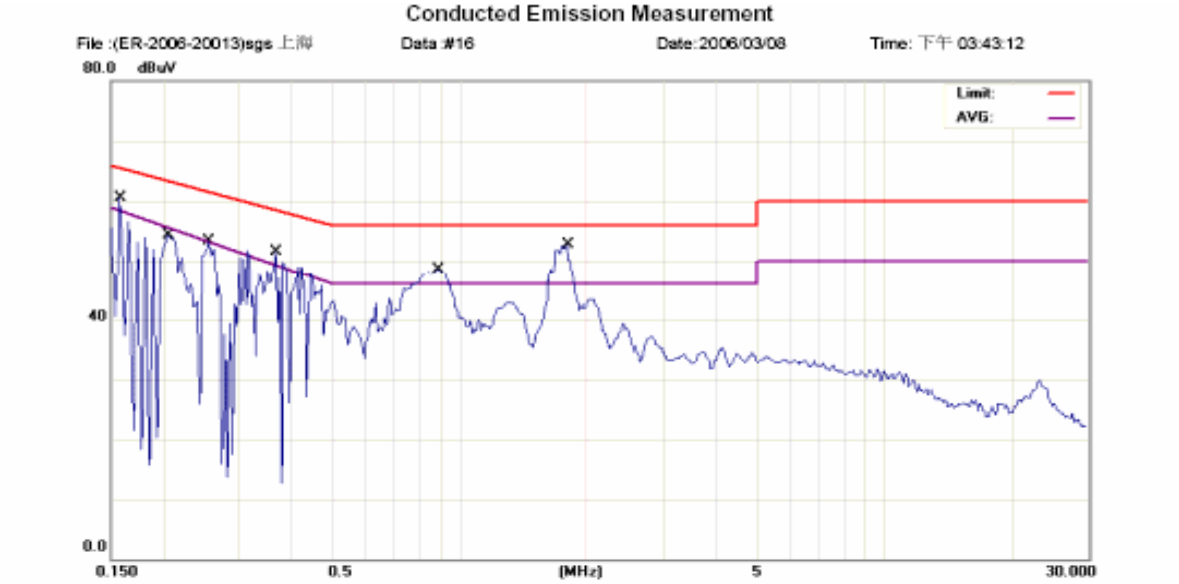
Phase: L1
Power: AC 230V/50Hz
Distance:

Temperature: 23 ℃
Humidity: 59 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1617	50.95	0.73	51.68	65.38	-13.70	QP	
2		0.1617	29.90	0.73	30.63	58.19	-27.56	AVG	
3	*	0.3141	46.14	0.80	46.94	59.86	-12.92	QP	
4		0.3141	30.86	0.80	31.66	51.02	-19.36	AVG	
5		0.3648	42.56	0.82	43.38	58.62	-15.24	QP	
6		0.3648	29.15	0.82	29.97	49.40	-19.43	AVG	
7		0.4234	41.04	0.85	41.89	57.38	-15.49	QP	
8		0.4234	23.05	0.85	23.90	47.80	-23.90	AVG	
9		0.4664	35.00	0.87	35.87	56.58	-20.71	QP	
10		0.4664	22.30	0.87	23.17	46.75	-23.58	AVG	
11		0.6852	29.56	0.77	30.33	56.00	-25.67	QP	
12		0.6852	17.59	0.77	18.36	46.00	-27.64	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Neutral
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	: 220Vac	Supplier	:Astec



Site SGS CONDUCTED #1
Limit: CISPR14(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA(白底)
Note: GSM 850 //CHARGE & OPERATION MODE

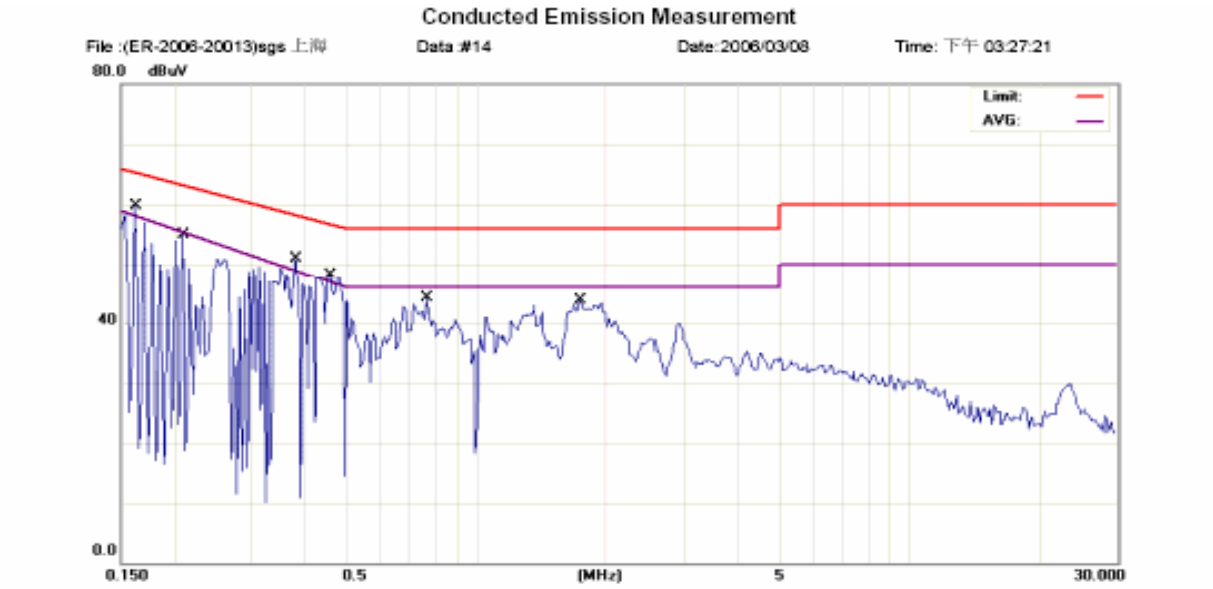
Phase: N
Power: AC 230V/50Hz
Distance:

Temperature: 23 ℃
Humidity: 59 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	53.11	0.73	53.84	65.58	-11.74	QP	
2		0.1578	40.78	0.73	41.51	58.45	-16.94	AVG	
3		0.2047	50.73	0.75	51.48	63.42	-11.94	QP	
4		0.2047	34.78	0.75	35.53	55.64	-20.11	AVG	
5		0.2555	51.85	0.77	52.62	61.58	-8.96	QP	
6	*	0.2555	45.91	0.77	46.68	53.25	-6.57	AVG	
7		0.3688	45.45	0.82	46.27	58.53	-12.26	QP	
8		0.3688	34.21	0.82	35.03	49.29	-14.26	AVG	
9		0.8922	46.12	0.64	46.76	56.00	-9.24	QP	
10		0.8922	34.23	0.64	34.87	46.00	-11.13	AVG	
11		1.8023	47.09	0.72	47.81	56.00	-8.19	QP	
12		1.8023	26.09	0.72	26.81	46.00	-19.19	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Line
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	:220Vac	Supplier	:Astec



Site SGS CONDUCTED #1
Limit: CISPR14(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA(白底)
Note: GSM 1900 //CHARGE & OPERATION MODE

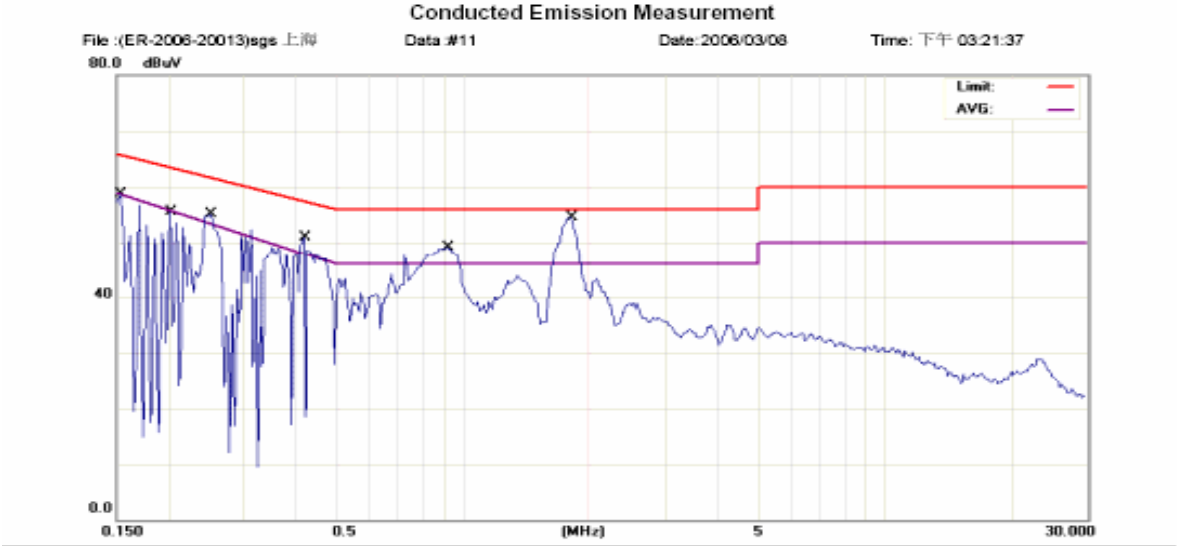
Phase: L1
Power: AC 230V/50Hz
Distance:

Temperature: 23 ℃
Humidity: 59 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1617	50.25	0.73	50.98	65.38	-14.40	QP	
2		0.1617	27.37	0.73	28.10	58.19	-30.09	AVG	
3	*	0.2086	50.65	0.75	51.40	63.26	-11.86	QP	
4		0.2086	31.89	0.75	32.64	55.44	-22.80	AVG	
5		0.3805	41.77	0.83	42.60	58.27	-15.67	QP	
6		0.3805	28.14	0.83	28.97	48.95	-19.98	AVG	
7		0.4586	35.06	0.86	35.92	56.72	-20.80	QP	
8		0.4586	7.92	0.86	8.78	46.93	-38.15	AVG	
9		0.7672	32.53	0.72	33.25	56.00	-22.75	QP	
10		0.7672	17.89	0.72	18.61	46.00	-27.39	AVG	
11		1.7398	38.09	0.71	38.80	56.00	-17.20	QP	
12		1.7398	19.15	0.71	19.86	46.00	-26.14	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Neutral
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	: 220Vac	Supplier	: Leader



Site SGS CONDUCTED #1
Limit: CISPR14(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA(白底)
Note: GSM 1900 //CHARGE & OPERATION MODE

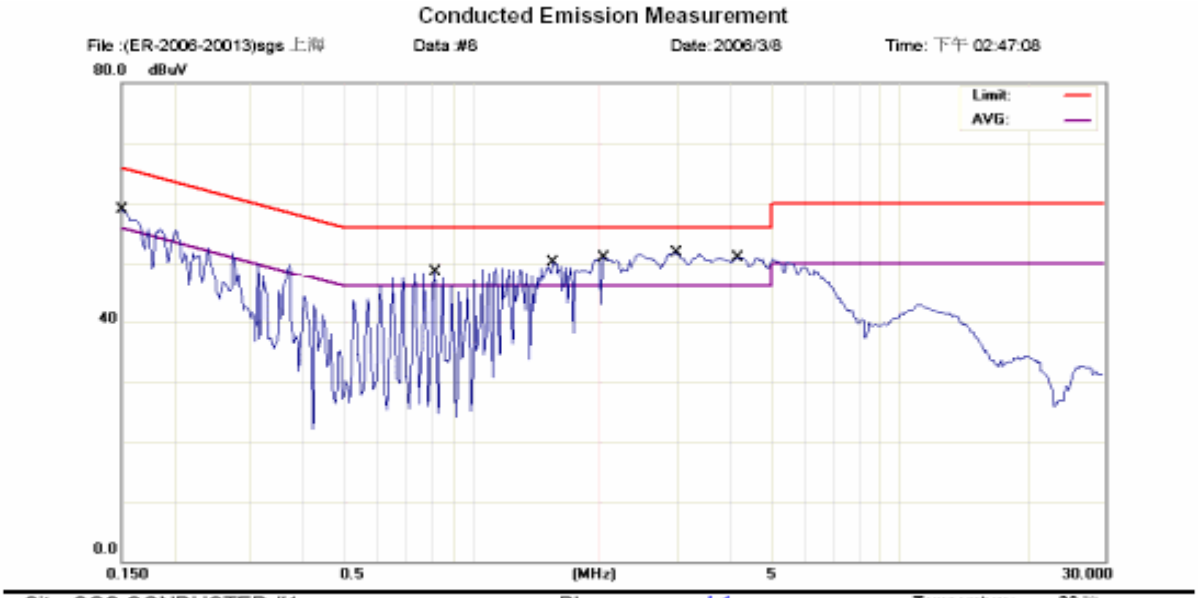
Phase: N
Power: AC 230V/50Hz
Distance:

Temperature: 23 ℃
Humidity: 59 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	54.90	0.73	55.63	65.79	-10.16	QP	
2		0.1539	41.58	0.73	42.31	58.72	-16.41	AVG	
3		0.2008	51.07	0.75	51.82	63.58	-11.76	QP	
4		0.2008	41.73	0.75	42.48	55.85	-13.37	AVG	
5		0.2516	53.97	0.77	54.74	61.70	-6.96	QP	
6	*	0.2516	46.68	0.77	47.45	53.42	-5.97	AVG	
7		0.4195	44.36	0.85	45.21	57.46	-12.25	QP	
8		0.4195	30.86	0.85	31.71	47.90	-16.19	AVG	
9		0.9195	44.16	0.63	44.79	56.00	-11.21	QP	
10		0.9195	34.19	0.63	34.82	46.00	-11.18	AVG	
11		1.8141	46.85	0.72	47.57	56.00	-8.43	QP	
12		1.8141	33.08	0.72	33.80	46.00	-12.20	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Line
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	:220Vac	Supplier	:Leader



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA
Note: GSM 850 //CHARGE & OPERATION MODE

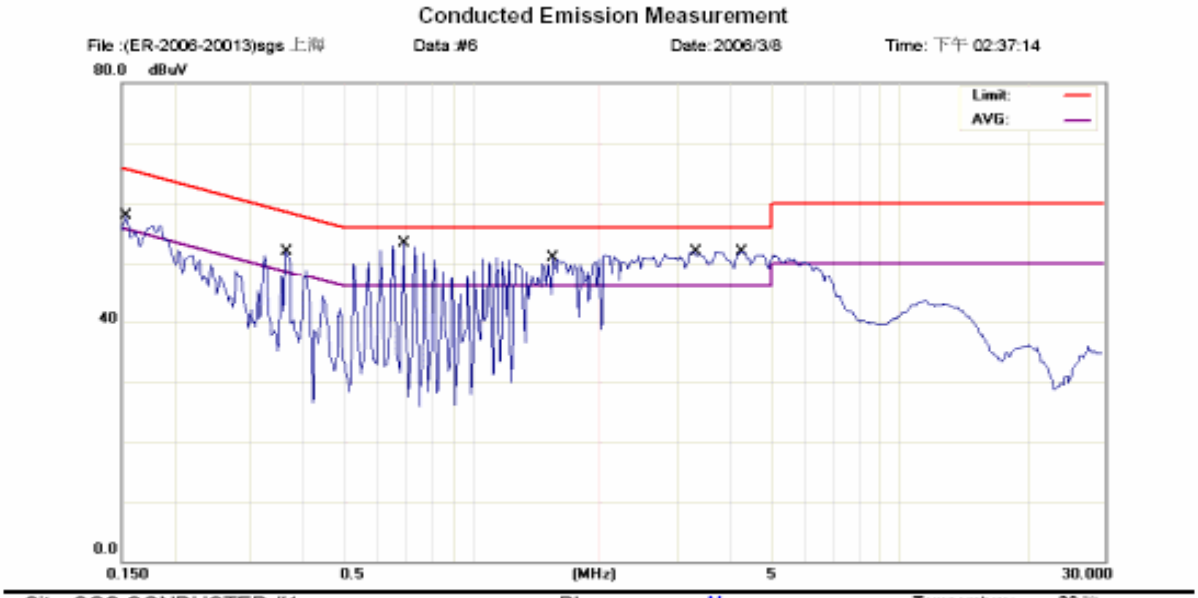
Phase: L1
Power: AC 230V/50Hz
Distance:

Temperature: 23 ℃
Humidity: 59 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	49.80	0.68	50.48	66.00	-15.52	QP	
2		0.1500	19.14	0.68	19.82	56.00	-36.18	AVG	
3		0.8141	49.82	0.69	50.51	56.00	-5.49	QP	
4		0.8141	42.23	0.69	42.92	46.00	-3.08	AVG	
5		1.5445	49.05	0.62	49.67	56.00	-6.33	QP	
6	*	1.5445	44.95	0.62	45.57	46.00	-0.43	AVG	
7		2.0328	48.83	0.65	49.48	56.00	-6.52	QP	
8		2.0328	44.92	0.65	45.57	46.00	-0.43	AVG	
9		2.9664	49.91	0.71	50.62	56.00	-5.38	QP	
10		2.9664	44.84	0.71	45.55	46.00	-0.45	AVG	
11		4.1461	48.60	0.77	49.37	56.00	-6.63	QP	
12		4.1461	43.85	0.77	44.62	46.00	-1.38	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM 850	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Neutral
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	: 220Vac	Supplier	: Leader

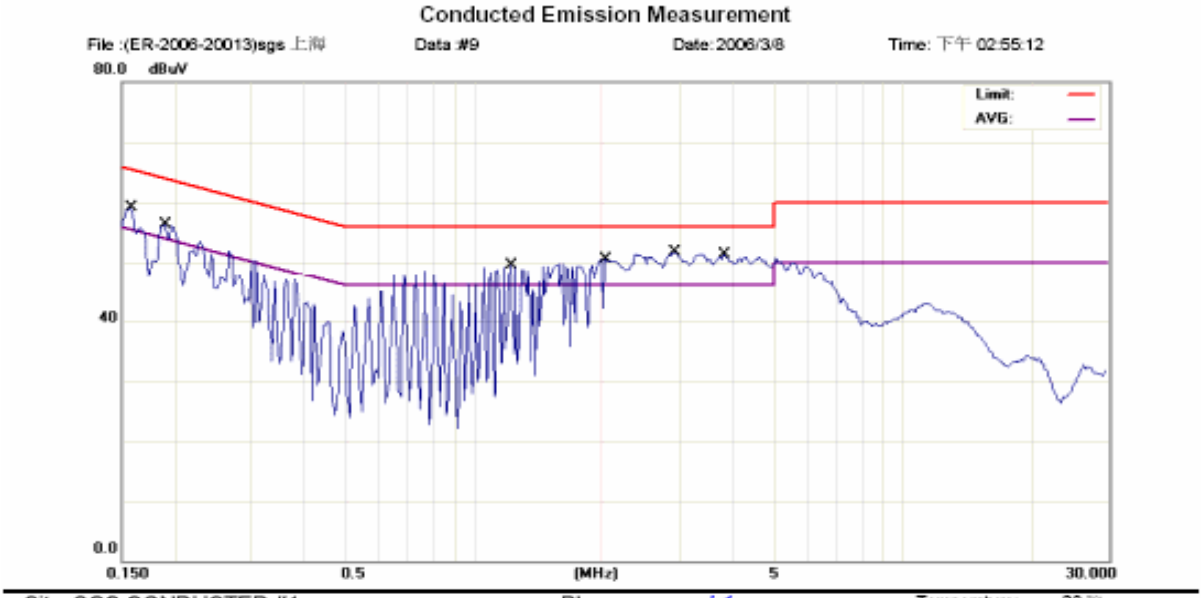


Site SGS CONDUCTED #1 | Phase: N | Temperature: 23 ℃
Limit: CISPR22 Class B Conduction(QP) | Power: AC 230V/50Hz | Humidity: 59 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: 3DS09371AAAA
Note: GSM 850 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	48.42	0.69	49.11	65.79	-16.68	QP	
2		0.1539	32.90	0.69	33.59	55.79	-22.20	AVG	
3		0.3648	46.34	0.82	47.16	58.62	-11.46	QP	
4		0.3648	39.24	0.82	40.06	48.62	-8.56	AVG	
5		0.6930	50.61	0.76	51.37	56.00	-4.63	QP	
6	*	0.6930	44.21	0.76	44.97	46.00	-1.03	AVG	
7		1.5484	49.09	0.62	49.71	56.00	-6.29	QP	
8		1.5484	44.34	0.62	44.96	46.00	-1.04	AVG	
9		3.3023	49.68	0.73	50.41	56.00	-5.59	QP	
10		3.3023	43.21	0.73	43.94	46.00	-2.06	AVG	
11		4.2398	47.90	0.78	48.68	56.00	-7.32	QP	
12		4.2398	41.29	0.78	42.07	46.00	-3.93	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Line
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	:220Vac	Supplier	: Leader



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: MOBILE PHONE
M/N: 3DS09371AAAA
Note: GSM 1900 //CHARGE & OPERATION MODE

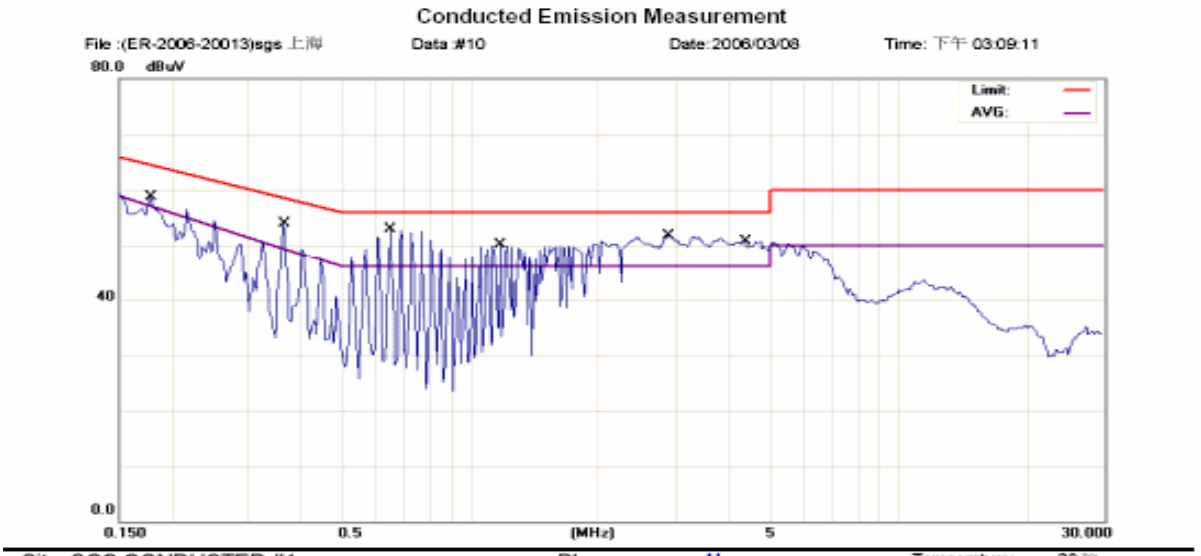
Phase: L1
Power: AC 230V/50Hz
Distance:

Temperature: 23 ℃
Humidity: 59 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	47.60	0.69	48.29	65.58	-17.29	QP	
2		0.1578	39.60	0.69	40.29	55.58	-15.29	AVG	
3		0.1891	45.57	0.73	46.30	64.08	-17.78	QP	
4		0.1891	44.71	0.73	45.44	54.08	-8.64	AVG	
5		1.2164	47.73	0.60	48.33	56.00	-7.67	QP	
6		1.2164	44.77	0.60	45.37	46.00	-0.63	AVG	
7		2.0289	49.34	0.65	49.99	56.00	-6.01	QP	
8		2.0289	44.77	0.65	45.42	46.00	-0.58	AVG	
9		2.9234	50.12	0.71	50.83	56.00	-5.17	QP	
10	*	2.9234	44.93	0.71	45.64	46.00	-0.36	AVG	
11		3.8180	47.93	0.76	48.69	56.00	-7.31	QP	
12		3.8180	43.87	0.76	44.63	46.00	-1.37	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode	: GSM1900	Test Date	:Feb.24, 2006
Fundamental Frequency	: N/A	Test By	:Danny
Temperature	: 23℃	Pol	:Neutral
Humidity	: 59%	Adaptor Model	:3DS09371AAAA
Test Voltage	: 220Vac	Supplier	: Leader



Site SGS CONDUCTED #1 | Phase: N | Temperature: 23 ℃
Limit: CISPR14(QP) | Power: AC 230V/50Hz | Humidity: 59 %
EUT: MOBILE PHONE | Distance: | Air Pressure: hpa
M/N: 3DS09371AAAA
Note: GSM 1900 //CHARGE & OPERATION MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1773	48.42	0.74	49.16	64.61	-15.45	QP	
2		0.1773	31.50	0.74	32.24	57.19	-24.95	AVG	
3		0.3648	46.24	0.82	47.06	58.62	-11.56	QP	
4		0.3648	40.11	0.82	40.93	49.40	-8.47	AVG	
5		0.6500	48.30	0.79	49.09	56.00	-6.91	QP	
6		0.6500	40.37	0.79	41.16	46.00	-4.84	AVG	
7		1.1773	48.34	0.61	48.95	56.00	-7.05	QP	
8		1.1773	44.89	0.61	45.50	46.00	-0.50	AVG	
9		2.8805	50.67	0.76	51.43	56.00	-4.57	QP	
10		2.8805	44.76	0.76	45.52	46.00	-0.48	AVG	
11		4.3414	48.97	0.78	49.75	56.00	-6.25	QP	
12	*	4.3414	44.92	0.78	45.70	46.00	-0.30	AVG	