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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: VLE5

Market Name: OT-E260a

FCC ID: **RAD028**

ER/2005/C0013 **Report No.:**

Issue Date: Jan. 02, 2006

FCC Rule Part: 2,22H & 24E

Prepared for **TCL&Alcatel Mobile Phones**

30/F, Times Square, 500 Shen Minlei RD.

Shanghai 200122, P.R.China

Prepared by SGS Taiwan Ltd.

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

Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

TCL&Alcatel Mobile Phones **Applicant:**

30/F, Times Square, 500 Shen Minlei RD. Shanghai 200122, P.R.China

Equipment Under Test: GSM 850/1900 mobile phone

FCC ID Number: RAD028 **Brand Name:** Alcatel Model No.: VLE5

Market Name: OT-E260a

Model Difference: N/A

File Number: ER/2005/C0013

Date of test: Dec. 21, 2005 ~ Dec. 31, 2005

Date of EUT Received: Dec 21, 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.

11 1 11 .5

Test By:	Henk Huany	Date	Jan. 02, 2006	
Prepared By:	Henk Huang Gigi yeh	Date	Jan. 02, 2006	
Approved By	Gigi Yeh Tinlet Su Vincent Su	Date 	Jan. 02, 2006	



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Version

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GENERAL INFORMATION

Product Description 1.1

Product	GSM 850/1900 mobile phone				
Model Name	VLE5				
Market Name	OT-E260a				
Model Difference:	N/A				
Trade Name	Alcatel				
Frequency Range and	TX: 824.2 MHz – 848.8 MHz		33 dBm		
Power	TX: 185	0.2MHz –1909.8MHz	30 dBm		
Type of Emission	300KGX	ζW			
	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter or Car charger				
Power Supply	Four 5V DC by AC/DC Adapters 3DS09371AGAA (supplier: Astec and Leader Eletronics) Model: 3DS09371AAAA (supplier: Astec and Leader Eletronics) One 5Vdc Car Charge Model number:3DS07848AAAA (supplier: Primage)		applier: Astec and Leader Elec- applier: Astec and Leader Elec- e		

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RAD028** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

Test Methodology 1.3

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.



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1.4 Test Facility

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

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.



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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 **Test Procedure**

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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



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2.4 Configuration of Tested System

Fig. 2-1 ConFig. 2-1 Configuration of Tested System

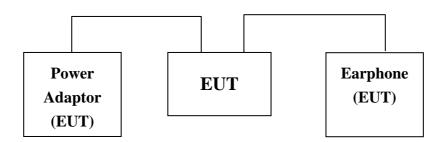


Table 2-1 Equipment Used in Tested System

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



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3. SUMMARY OF TEST RESULTS

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

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. The worst-case E2 mode for GSM 850 band and H mode for GSM 1900 band with power adaptor model number: 3DS07848AAAA for channel Low, Mid and High at GSM/PCS mode was reported.



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RF POWER OUTPUT MEASUREMENT

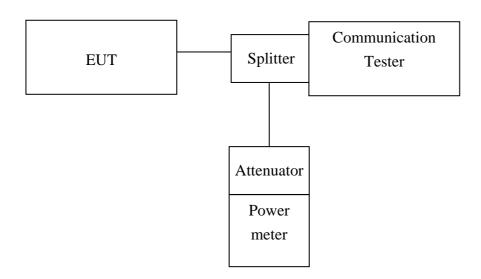
5.1 Standard Applicable

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



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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+SUHNE R	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)	СН	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
	824.20	128	16.34	16.50	32.84
GSM 850	836.60	190	16.42	16.50	32.92
	848.80	251	16.39	16.50	32.89

EUT Mode	Frequency (MHz)	СН	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	13.59	16.50	30.09
	1880.00	661	13.77	16.50	30.27
	1909.80	810	13.52	16.50	30.02



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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

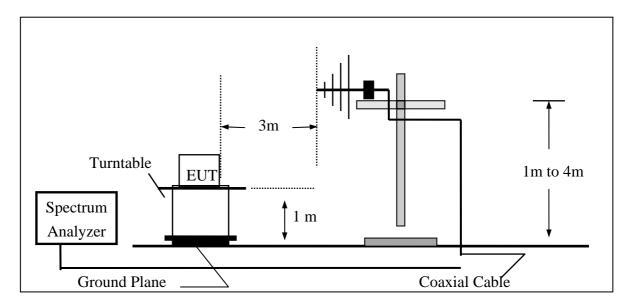
According to FCC §2.1046

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

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

6.2 Test SET-UP (Block Diagram of Configuration)

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

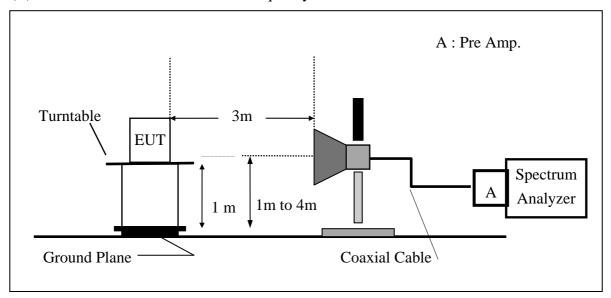




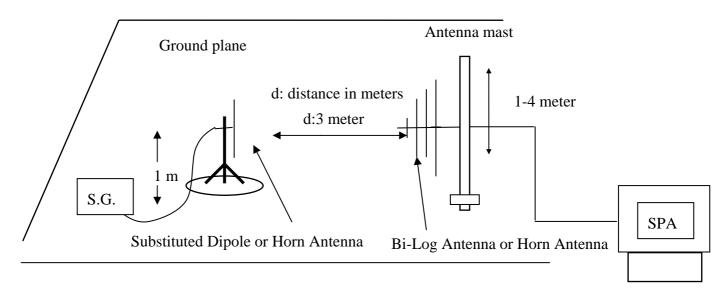
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP





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6.3 Measurement Procedure

The EUT was placed on 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)



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6.4 Measurement Equipment Used:

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2005	03/28/2006
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2005	11/10/2006
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2005	06/02/2006
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2005	08/15/2006
Pre-Amplifier	HP	8447D	2944A09469	07/19/2005	07/18/2006
Pre-Amplifier	HP	8494B	3008A00578	02/26/2005	02/25/2006
Signal Generator	R&S	SMR40	100210	02/09/2005	02/10/2006
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2005	09/22/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2004	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2004	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2004	08/15/2006



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6.5 Measurement Result

EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
				V	125.84	38.52	-7.87	3.64	27.00	38.45
			Н	Н	130.01	42.35	-7.87	3.64	30.83	38.45
			E1	V	127.59	40.26	-7.87	3.64	28.75	38.45
	824.20	128	EI	Н	126.27	38.61	-7.87	3.64	27.09	38.45
			E2	V	122.22	34.90	-7.87	3.64	23.38	38.45
			E2	Н	132.10	44.44	-7.87	3.64	32.92	38.45
	836.60	190	Н	V	126.11	39.08	-7.88	3.70	27.51	38.45
				Н	131.74	44.40	-7.88	3.70	32.83	38.45
			E1	V	128.80	41.77	-7.88	3.70	30.20	38.45
GSM 850				Н	127.25	39.91	-7.88	3.70	28.34	38.45
			E2	V	122.12	35.09	-7.88	3.70	23.52	38.45
				Н	132.65	45.32	-7.88	3.70	33.74	38.45
				V	125.36	38.62	-7.88	3.75	26.99	38.45
			Н	Н	131.56	44.54	-7.88	3.75	32.91	38.45
	848.80	251	E1	V	128.05	41.31	-7.88	3.75	29.68	38.45
	040.00	251	EI	Н	127.19	40.17	-7.88	3.75	28.54	38.45
			F2	V	121.72	34.98	-7.88	3.75	23.35	38.45
			E2	Н	132.40	45.38	-7.88	3.75	33.75	38.45

Remark:

(1) The RBW, VBW of SPA for frequency

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

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



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EUT Mode	Frequency (MHz)	СН	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
				V	132.03	25.07	9.90	5.41	29.56	33.00
			Н	Н	131.87	24.98	9.90	5.41	29.47	33.00
			E1	V	130.04	23.08	9.90	5.41	27.57	33.00
	1850.20	512	EI	Н	121.95	15.06	9.90	5.41	19.55	33.00
			E2	V	127.86	20.90	9.90	5.41	25.39	33.00
			E2	Н	131.68	24.79	9.90	5.84	28.85	33.00
		661	Н	V	131.48	24.53	9.99	5.46	29.06	33.00
				Н	130.97	24.10	9.99	5.46	28.63	33.00
DGG 1000	1880.00 66		E1	V	131.57	24.62	9.99	5.46	29.15	33.00
PCS 1900				Н	123.63	16.76	9.99	5.46	21.29	33.00
			E2	V	127.62	20.67	9.99	5.46	25.20	33.00
				Н	131.21	24.34	9.99	5.46	28.87	33.00
				V	129.29	22.35	10.08	5.51	26.92	33.00
			Н	Н	129.66	22.81	10.08	5.51	27.37	33.00
	1000.80	910	E 1	V	131.72	24.78	10.08	5.51	29.35	33.00
	1909.80	810	E1	Н	125.25	18.40	10.08	5.51	22.96	33.00
			E2	V	125.07	18.13	10.08	5.51	22.70	33.00
				Н	130.00	23.15	10.08	5.51	27.71	33.00

Remark:

The RBW, VBW of SPA for frequency (1)

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

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



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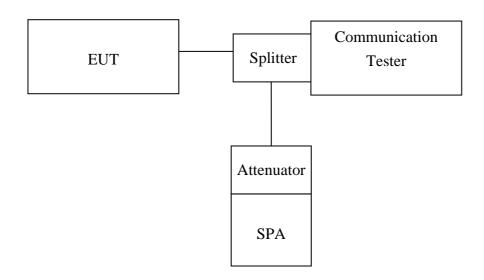
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7. OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

7.3 **Measurement Procedure**

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



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7.4 Measurement Equipment Used:

Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
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+SUHNE R	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)	СН	99%Bandwidth (MHz)	
	824.20	128	0.2401	
GSM 850	836.60	190	0.2402	
	848.80	251	0.2395	

EUT Mode	Frequency (MHz)	СН	99%Bandwidth (MHz)	
	1850.20	512	0.2373	
PCS 1900	1880.00	661	0.2368	
	1909.80	810	0.2374	



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Figure 7-1: GSM Channel Low

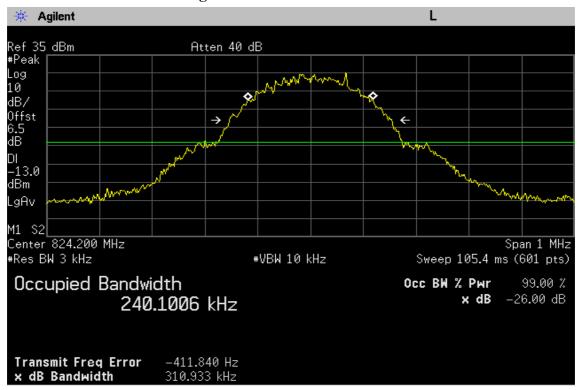
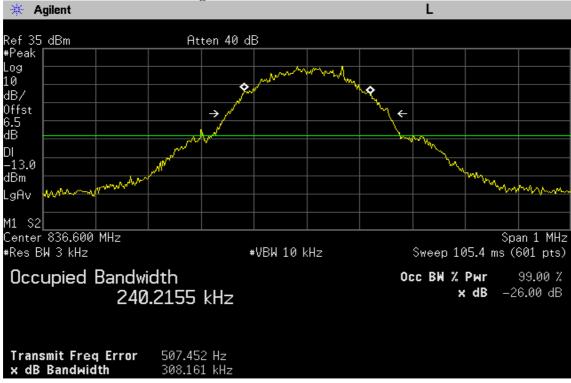


Figure 7-2 GSM Channel Mid

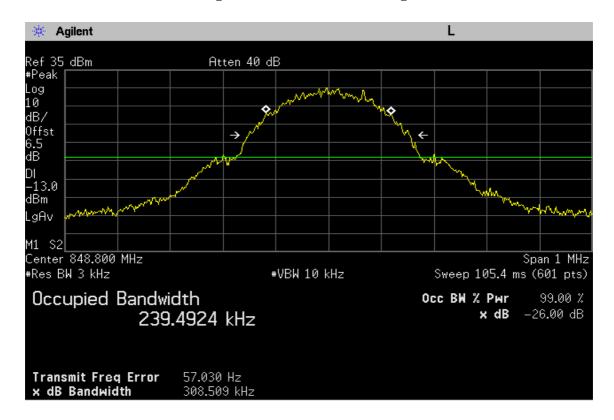




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Figure 7-3: GSM Channel High

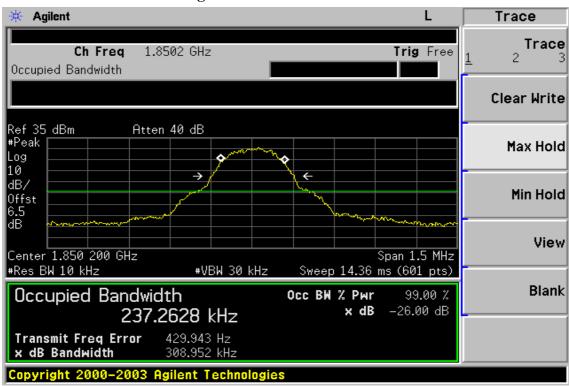




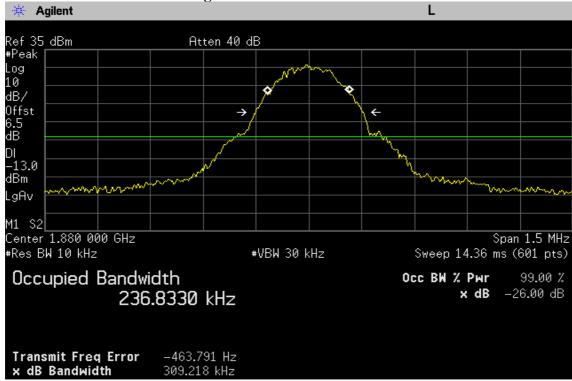
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Figure 7-4: PCS Channel Low





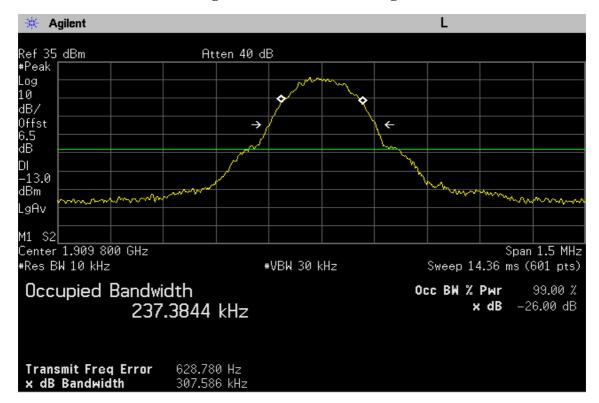




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Figure 7-6: PCS Channel High





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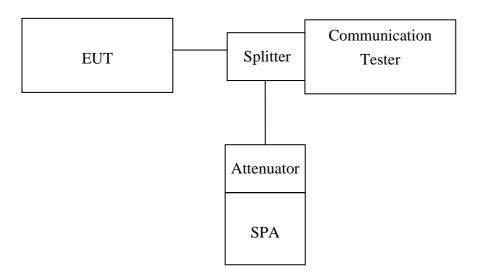
OUT OF BAND EMISSION AT ANTENNA TERMINALS

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= 10th harmonic. Limit = -13dBm

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



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8.4 Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	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+SUHNE R	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			



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8.5 **Measurement Result**

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

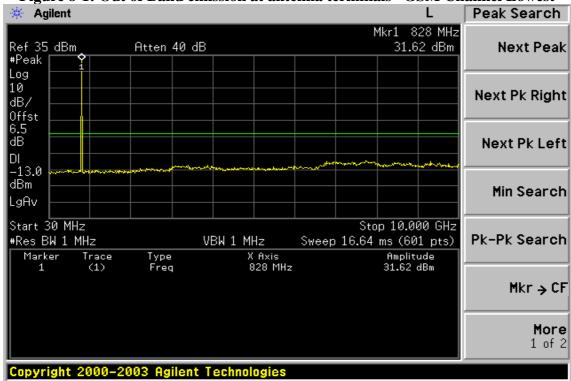
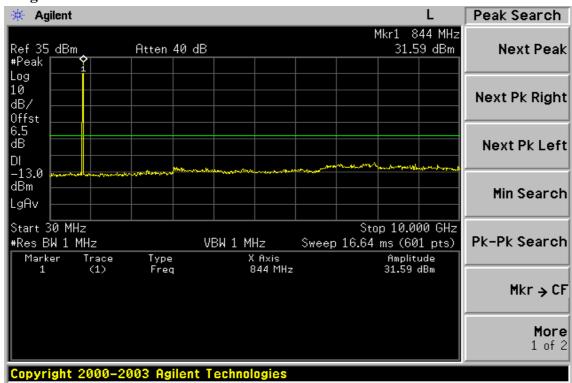


Figure 8-2: Out of Band emission at antenna terminals -GSM Channel Mid

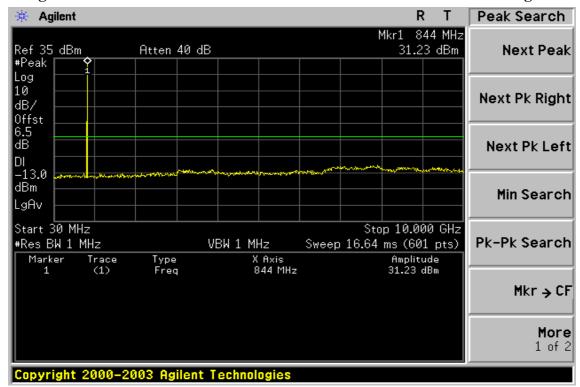




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Figure 8-3: Out of Band emission at antenna terminals-GSM Channel Highest





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

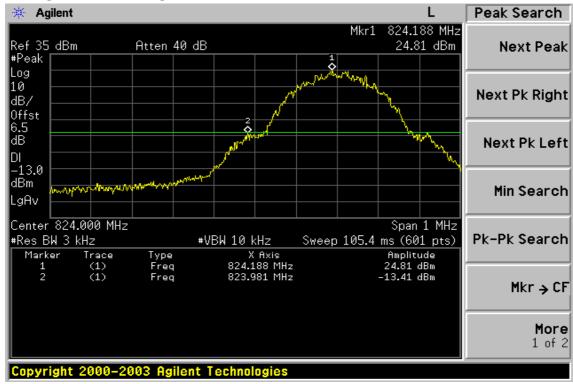
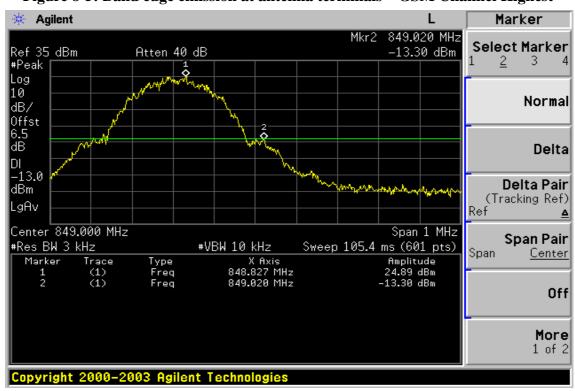


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest





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

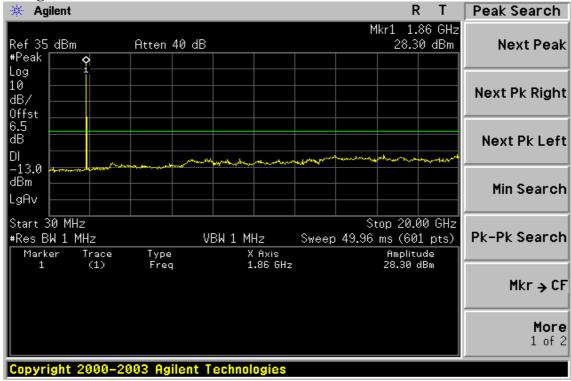
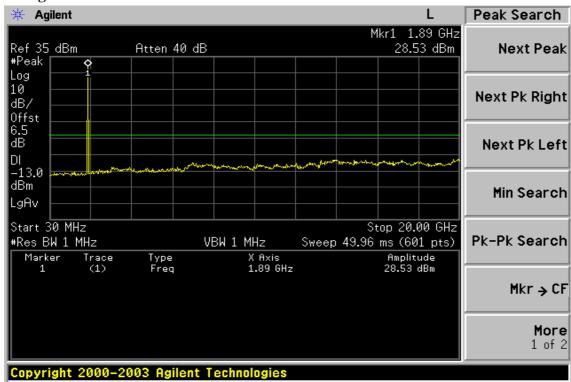


Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid

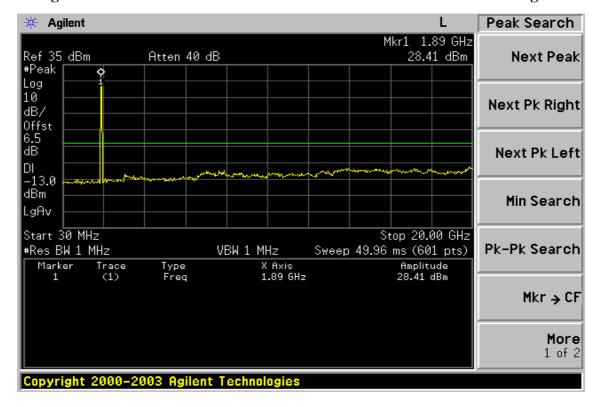




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Figure 8-8: Out of Band emission at antenna terminals-PCS Channel Highest





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

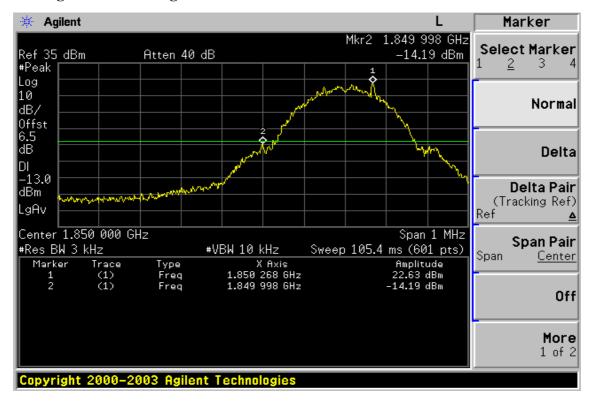


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest





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FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

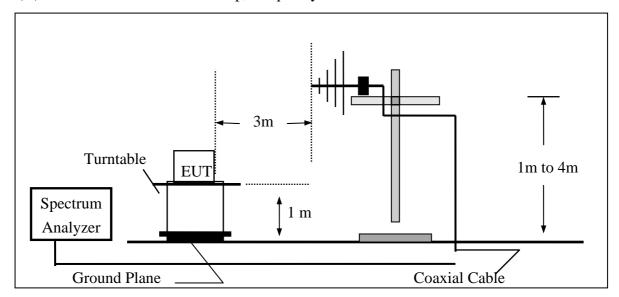
9.1 **Standard Applicable**

According to FCC §2.1053,

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

9.2 EUT Setup (Block Diagram of Configuration)

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

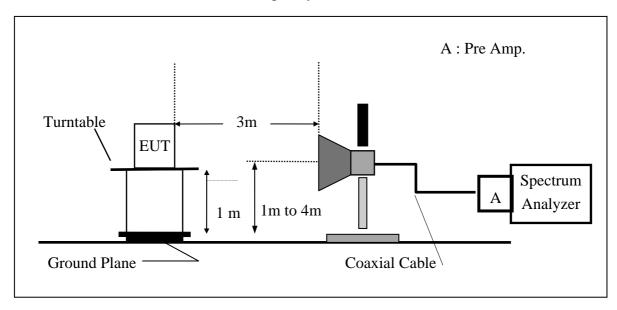




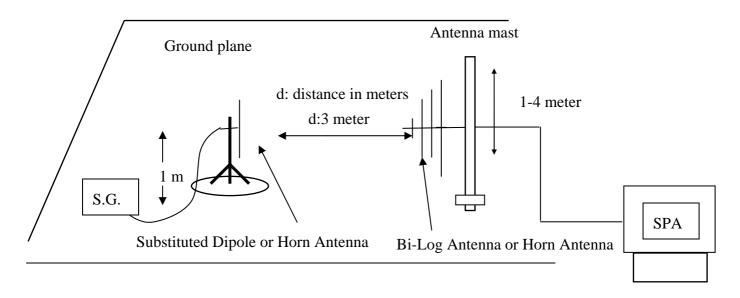
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP





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Measurement Procedure 9.3

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 <math>(dB)

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



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9.4 Measurement Equipment Used:

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
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

9.5 **Measurement Result**

Refer to attach tabular data sheets.



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Radiated Spurious Emission Measurement Result: GSM 850 Mode

: TX CH Low E2 Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

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)
75.59	40.95	V	-70.57	-1.85	1.05	-73.48	-13.00	-60.48
824.00	74.72	V	-12.61	-7.87	3.64	-24.13	-13.00	-11.13
1648.40	77.07	V	-29.97	9.30	5.06	-25.73	-13.00	-12.73
2472.60	62.66	V	-41.38	10.07	6.30	-37.61	-13.00	-24.61
3296.80	54.04	V	-48.54	12.18	7.26	-43.62	-13.00	-30.62
4121.00	48.87	V	-50.96	12.61	8.31	-46.66	-13.00	-33.66
4945.20	42.86	V	-53.78	12.65	9.17	-50.30	-13.00	-37.30
5769.40	38.97	V	-55.66	13.53	9.79	-51.92	-13.00	-38.92
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	

- 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)



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Radiated Spurious Emission Measurement Result: GSM 850 Mode

: TX CH Low E2 Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity Adaptor Model : 65% :3DS07848AAAA

> Supplier :Primax

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
90.14	38.87	Н	-64.82	-7.75	1.16	-73.74	-13.00	-60.74
824.00	84.71	Н	-2.72	-7.88	3.68	-14.28	-13.00	-1.28
1648.40	69.60	Н	-37.41	9.30	5.06	-33.17	-13.00	-20.17
2472.60	53.83	Н	-50.20	10.07	6.30	-46.43	-13.00	-33.43
3296.80	56.15	Н	-46.21	12.18	7.26	-41.29	-13.00	-28.29
4121.00	58.11	Н	-41.60	12.61	8.31	-37.30	-13.00	-24.30
4945.20	44.03	Н	-52.53	12.65	9.17	-49.05	-13.00	-36.05
5769.40	42.72	Н	-51.87	13.53	9.79	-48.13	-13.00	-35.13
6593.60		Н		12.05	10.61		-13.00	
7417.80		Н		11.49	11.28		-13.00	
8242.00		Н		11.48	12.26		-13.00	

- 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)



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Radiated Spurious Emission Measurement Result: GSM 850 Mode

: TX CH Mid E2 Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity Adaptor Model : 65% :3DS07848AAAA

> Supplier :Primax

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)
159.98	37.58	V	-60.93	-7.81	1.49	-70.22	-13.00	-57.22
1673.20	73.90	V	-33.13	9.35	5.09	-28.88	-13.00	-15.88
2509.80	63.15	V	-40.71	10.10	6.35	-36.97	-13.00	-23.97
3346.40	56.40	V	-46.16	12.26	7.29	-41.19	-13.00	-28.19
4183.00	44.84	V	-54.73	12.62	8.39	-50.50	-13.00	-37.50
5019.60	42.60	V	-53.73	12.66	9.25	-50.32	-13.00	-37.32
5856.20	39.69	V	-54.67	13.68	9.84	-50.83	-13.00	-37.83
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	

- 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)



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Radiated Spurious Emission Measurement Result: GSM 850 Mode

: TX CH Mid E2 Mode Operation Mode Test Date :Dec.26, 2005

Fundamental Frequency : 836.60 MHz Test By :Henk Temperature Pol. : 25°C :Hor.

Humidity Adaptor Model : 65% :3DS07848AAAA

> Supplier :Primax

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
60.72	41.30	Н	-69.98	-0.50	0.95	-71.43	-13.00	-58.43
75.59	46.82	Н	-65.54	-1.85	1.05	-68.44	-13.00	-55.44
90.14	39.26	Н	-64.43	-7.75	1.16	-73.35	-13.00	-60.35
1673.20	70.78	Н	-36.22	9.35	5.09	-31.96	-13.00	-18.96
2509.80	53.34	Н	-50.52	10.10	6.35	-46.77	-13.00	-33.77
3346.40	56.07	Н	-46.26	12.26	7.29	-41.29	-13.00	-28.29
4183.00	49.26	Н	-50.17	12.62	8.39	-45.94	-13.00	-32.94
5019.60	42.18	Н	-54.10	12.66	9.25	-50.69	-13.00	-37.69
5856.20	43.63	Н	-50.70	13.68	9.84	-46.87	-13.00	-33.87
6692.80		Н		11.95	10.74		-13.00	
7529.40		Н		11.45	11.35		-13.00	
8366.00		Н		11.59	12.43		-13.00	

- 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)



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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode Test Date :Dec.26, 2005

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

Humidity Adaptor Model : 65% :3DS07848AAAA

> Supplier :Primax

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)
167.74	39.00	V	-60.20	-7.81	1.50	-69.52	-13.00	-56.52
850.00	75.47	V	-11.26	-7.88	3.75	-22.89	-13.00	-9.89
1697.60	71.73	V	-35.29	9.41	5.13	-31.01	-13.00	-18.01
2546.40	58.68	V	-45.09	10.21	6.41	-41.29	-13.00	-28.29
3395.20	56.02	V	-46.52	12.38	7.33	-41.48	-13.00	-28.48
4244.00	43.35	V	-56.01	12.63	8.46	-51.84	-13.00	-38.84
5092.80	44.37	V	-51.81	12.73	9.31	-48.39	-13.00	-35.39
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	

- 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)



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Radiated Spurious Emission Measurement Result: GSM 850 Mode

: TX CH High E2 Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity Adaptor Model :3DS07848AAAA : 65%

> Supplier :Primax

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
60.72	43.84	Н	-67.44	-0.50	0.95	-68.89	-13.00	-55.89
75.59	49.10	Н	-63.26	-1.85	1.05	-66.16	-13.00	-53.16
90.14	38.47	Н	-65.22	-7.75	1.16	-74.14	-13.00	-61.14
850.00	84.58	Н	-2.44	-7.88	3.75	-14.06	-13.00	-1.06
1697.60	73.65	Н	-33.34	9.41	5.13	-29.05	-13.00	-16.05
2546.40	53.17	Н	-50.59	10.21	6.41	-46.79	-13.00	-33.79
3395.20	54.76	Н	-47.53	12.38	7.33	-42.48	-13.00	-29.48
4244.00	50.43	Н	-48.78	12.63	8.46	-44.60	-13.00	-31.60
5092.80	41.09	Н	-55.04	12.73	9.31	-51.61	-13.00	-38.61
5941.60	38.95	Н	-55.14	13.81	9.89	-51.22	-13.00	-38.22
6790.40		Н		11.86	10.87		-13.00	
7639.20		Н		11.40	11.48		-13.00	
8488.00		Н		11.70	12.59		-13.00	

- 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)



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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH Low H Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

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)
33.88	38.69	V	-64.88	-5.52	0.72	-71.13	-13.00	-58.13
1850.00	82.23	V	-24.73	9.90	5.41	-20.24	-13.00	-7.24
3700.40	59.67	V	-41.94	12.61	7.71	-37.05	-13.00	-24.05
5550.60	42.35	V	-52.85	13.23	9.68	-49.31	-13.00	-36.31
7400.80	41.80	V	-44.23	11.50	11.27	-44.00	-13.00	-31.00
9251.00		V		11.92	13.10		-13.00	
11101.20		V		11.66	14.33		-13.00	
12951.40		V		13.63	15.98		-13.00	
14801.60		V		12.76	17.27		-13.00	
16651.80		V		15.92	19.04		-13.00	
18502.00		V		18.75	21.21		-13.00	

- 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)



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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH Low H Mode Operation Mode Test Date :Dec.26, 2005

Fundamental Frequency: 1850.20MHz Test By :Henk Temperature Pol. :Hor. : 25°C

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

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)
33.88	37.52	Н	-67.18	-5.52	0.72	-73.42	-13.00	-60.42
1850.00	83.24	Н	-23.65	9.90	5.41	-19.16	-13.00	-6.16
3700.40	58.82	Н	-42.57	12.61	7.71	-37.68	-13.00	-24.68
5550.60	46.77	Н	-48.35	13.23	9.68	-44.81	-13.00	-31.81
7400.80	40.11	Н	-45.98	11.50	11.27	-45.76	-13.00	-32.76
9251.00		Н		11.92	13.10		-13.00	
11101.20		Н		11.66	14.33		-13.00	
12951.40		Н		13.63	15.98		-13.00	
14801.60		Н		12.76	17.27		-13.00	
16651.80		Н		15.92	19.04		-13.00	
18502.00		Н		18.75	21.21		-13.00	

- 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)



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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH Mid H Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

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	39.14	V	-65.00	-6.43	0.70	-72.13	-13.00	-59.13
92.08	40.91	V	-63.34	-7.75	1.17	-72.27	-13.00	-59.27
1877.50	43.81	V	-63.19	9.57	5.22	-58.84	-13.00	-45.84
7520.00	69.93	V	-37.02	9.98	5.45	-32.49	-13.00	-19.49
9400.00	58.29	V	-43.05	12.60	7.81	-38.25	-13.00	-25.25
11280.00	40.80	V	-54.15	13.36	9.73	-50.52	-13.00	-37.52
13160.00	50.25	V	-35.37	11.45	11.33	-35.25	-13.00	-22.25
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	

- 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)



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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH Mid H Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

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	42.22	Н	-61.29	-2.31	0.80	-64.40	-13.00	-51.40
1877.50	71.78	Н	-35.09	9.98	5.45	-30.57	-13.00	-17.57
7520.00	62.24	Н	-38.90	12.60	7.81	-34.10	-13.00	-21.10
9400.00	46.62	Н	-48.26	13.36	9.73	-44.63	-13.00	-31.63
11280.00	53.94	Н	-31.76	11.45	11.33	-31.64	-13.00	-18.64
13160.00		Н		13.33	16.11		-13.00	
15040.00		Н		13.76	17.57		-13.00	
16920.00		Н		15.27	19.66		-13.00	
18800.00		Н		18.68	21.34		-13.00	

- 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)



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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH High H Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
92.08	41.64	V	-62.61	-7.75	1.17	-71.54	-13.00	-58.54
1910.00	79.15	V	-27.79	10.08	5.51	-23.22	-13.00	-10.22
3981.60	54.59	V	-46.51	12.60	7.89	-41.80	-13.00	-28.80
5972.40	38.37	V	-56.37	13.48	9.77	-52.66	-13.00	-39.66
7963.20	50.14	V	-35.06	11.41	11.47	-35.12	-13.00	-22.12
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	

- 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)



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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

: TX CH High H Mode Operation Mode Test Date :Dec.26, 2005

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

Humidity : 65% Adaptor Model :3DS07848AAAA

> Supplier :Primax

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)
191.99	36.76	Н	-64.52	-7.83	1.55	-73.90	-13.00	-60.90
1742.50	41.13	Н	-65.82	9.57	5.22	-61.47	-13.00	-48.47
1910.00	82.44	Н	-24.41	10.08	5.51	-19.85	-13.00	-6.85
3981.60	63.90	Н	-37.02	12.60	7.89	-32.31	-13.00	-19.31
5972.40	43.78	Н	-50.91	13.48	9.77	-47.20	-13.00	-34.20
7963.20	46.45	Н	-38.87	11.41	11.47	-38.93	-13.00	-25.93
9954.00		Н		12.08	13.43		-13.00	
11944.80		Н		13.08	15.21		-13.00	
13935.60		Н		11.82	16.86		-13.00	
15926.40		Н		17.08	18.33		-13.00	

- 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)



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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

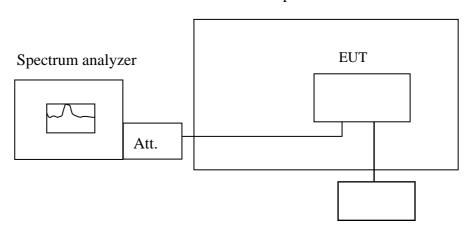
10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

10.2 Test Set-up:

Temperature Chamber



Variable Power Supply

Note: Measurement setup for testing on Antenna connector

10.3 Measurement Procedure

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



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10.4 Measurement Equipment Used:

	Conducto	ed Emission T	Cest Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
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+SUHNE R	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



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10.5 Measurement Result

Re	ference Frequency:	GSM Mid Channe	el 836.6 MHz @ 25	5
	Limit	: +/- 2.5 ppm = 20	91 Hz	
Power Supply	Environment	Frequency	Dalta (Ha)	Limit (II-)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
3.7	-30	836.600087	-85.00	2091
3.7	-20	836.600023	-21.00	2091
3.7	-10	836.600013	-11.00	2091
3.7	0	836.600005	-3.00	2091
3.7	10	836.599997	5.00	2091
3.7	20	836.600002	0.00	2091
3.7	30	836.599998	4.00	2091
3.7	40	836.599996	6.00	2091
3.7	50	836.600001	1.00	2091

Re	eference Frequency	: PCS Mid Channe	el 1880 MHz @ 25	5
	Limit	+/-2.5 ppm = 470	00 Hz	
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature ()	(MHz)	Delta (112)	Limit (112)
3.7	-30	1880.000011	-24.00	4700
3.7	-20	1880.000005	-18.00	4700
3.7	-10	1879.999992	-5.00	4700
3.7	0	1879.999961	26.00	4700
3.7	10	1879.999995	-8.00	4700
3.7	20	1879.999987	0.00	4700
3.7	30	1879.999999	-12.00	4700
3.7	40	1879.999993	-6.00	4700
3.7	50	1879.999978	9.00	4700

Note: The battery is rated 3.7V dc.



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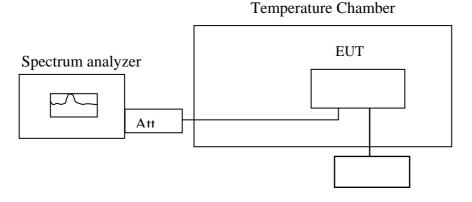
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

11.2 Test Set-up:



Variable DC Power Supply

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.



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11.4 Measurement Equipment Used:

	Conducto	ed Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
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+SUHNE R	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



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11.5 Measurement Result

Re	eference Frequency	: GSM Mid Channe	el 836.6 MHz @ 25	
	Limit	:: +/- 2.5 ppm = 209	91 Hz	
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Uz)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
3.70	25.00	836.600002	0.00	2091.00
3.40	25.00	836.600022	-20.00	2091.00
4.26	25.00	836.599989	13.00	2091.00
3.39	25.00	026 600012	10.00	2001.00
(End Point)	25.00	836.600012	-10.00	2091.00

R	eference Frequency	: PCS Mid Channe	el 1880 MHz @ 25	
	Limit	: +/- 2.5 ppm = 470	00 Hz	
Power Supply	Environment	Frequency	Dolto (Hz)	Limit (Uz)
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
3.7	25	1879.999987	0.00	4700
3.31	25	1880.000004	-17.00	4700
4.26	25	1880.000012	-25.00	4700
3.30	25	1070 00000	11.00	4700
(Endpoint)	25	1879.999998	-11.00	4700

Note: The battery is rated 3.7V dc.



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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

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

Frequency range		mits (uV)
MHz	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

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.

^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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12.4 Measurement Equipment Used:

	Conduc	ted Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
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	12/31/2004	12/30/2005
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2004	12/23/2005
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2005	12/23/2006

12.5 Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.



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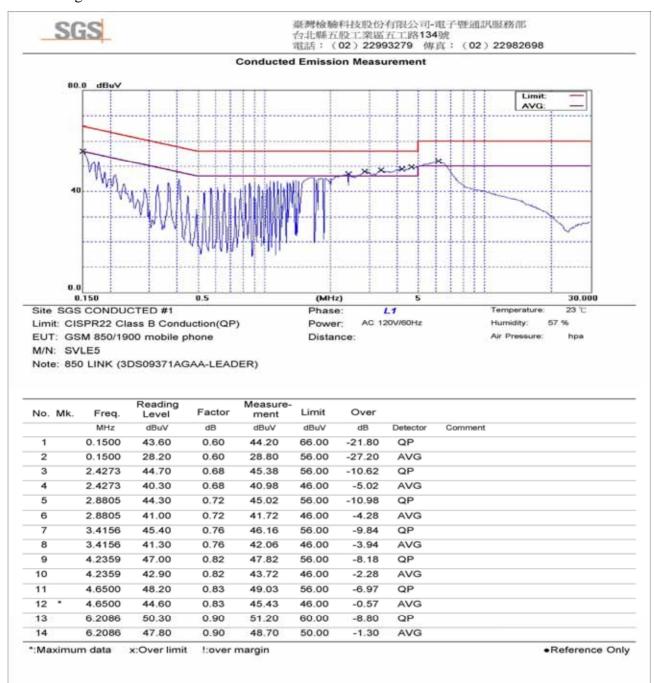
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency : N/A Test By :Henk Temperature : $23^{\circ}C$ Pol :Line

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Serial number :Leader





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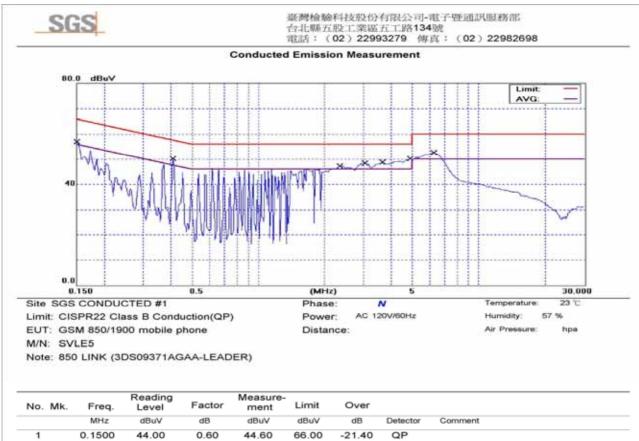
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating **Test Date** :Dec.28, 2005

Fundamental Frequency: N/A Test By :Henk **Temperature** Pol :Neutral : 23°C

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Serial number :Leader



No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	44.00	0.60	44.60	66.00	-21.40	QP	
2		0.1500	27.30	0.60	27.90	56.00	-28.10	AVG	
3		0.4117	49.30	0.61	49.91	57.61	-7.70	QP	
4	*	0.4117	46.80	0.61	47.41	47.61	-0.20	AVG	
5		2.3531	43.30	0.68	43.98	56.00	-12.02	QP	
6		2.3531	40.50	0.68	41.18	46.00	-4.82	AVG	
7		3.0562	45.10	0.73	45.83	56.00	-10.17	QP	
8		3.0562	41.20	0.73	41.93	46.00	-4.07	AVG	
9		3.6773	46.70	0.78	47.48	56.00	-8.52	QP	
10		3.6773	44.20	0.78	44.98	46.00	-1.02	AVG	
11		4.9195	48.80	0.84	49.64	56.00	-6.36	QP	
12		4.9195	44.70	0.84	45.54	46.00	-0.46	AVG	
13		6.2828	50.50	0.90	51.40	60.00	-8.60	QP	
14		6.2828	47.20	0.90	48.10	50.00	-1.90	AVG	
Ма	ximur	n data	x:Over limit	!:over	margin				Reference On



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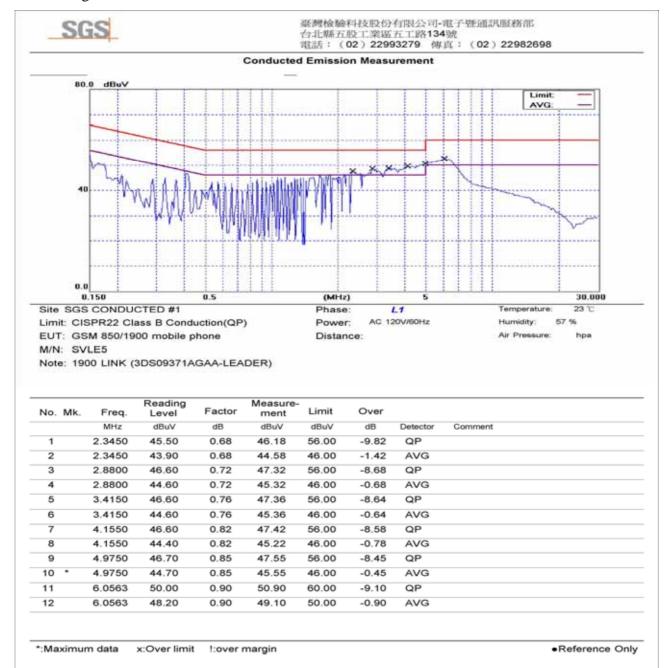
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency : N/A Test By :Henk Temperature : $23^{\circ}C$ Pol :Line

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Serial number :Leader





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Reference Only

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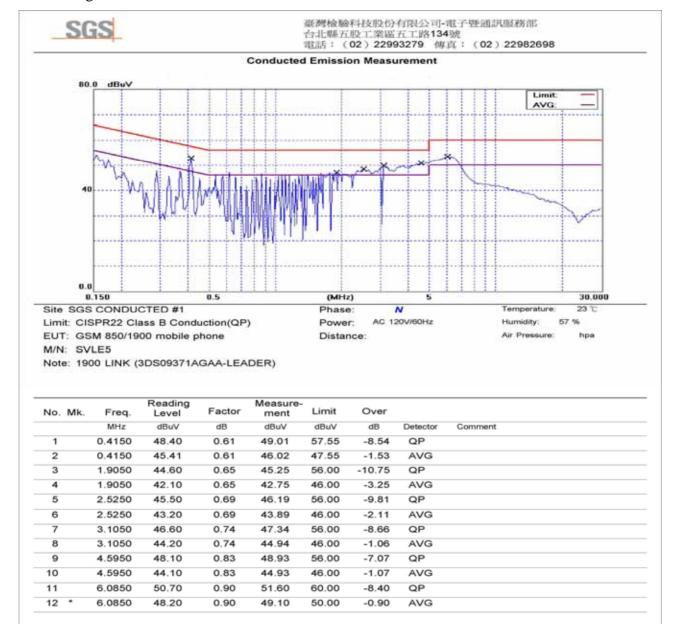
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency: N/A
Test By: Henk
Temperature: 23°C
Pol: Neutral

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Serial number :Leader



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

*:Maximum data

x:Over limit

!:over margin



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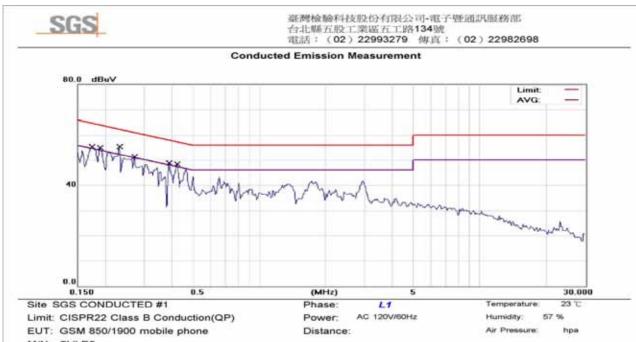
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating **Test Date** :Dec.28, 2005

Fundamental Frequency: N/A Test By :Henk Pol :Line Temperature : 23℃

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Supplier :Astec



M/N: SVLE5

Note: 850 LINK (3DS09371AGAA-ASTEC)

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1734	52.35	0.60	52.95	64.80	-11.85	QP	
2		0.1734	29.91	0.60	30.51	54.80	-24.29	AVG	
3		0.1891	50.65	0.60	51.25	64.08	-12.83	QP	
4		0.1891	31.09	0.60	31.69	54.08	-22.39	AVG	
5	*	0.2320	50.33	0.60	50.93	62.38	-11.45	QP	
6		0.2320	30.76	0.60	31.36	52.38	-21.02	AVG	
7		0.2711	48.47	0.60	49.07	61.08	-12.01	QP	
8		0.2711	29.54	0.60	30.14	51.08	-20.94	AVG	
9		0.3883	42.20	0.61	42.81	58.10	-15.29	QP	
10		0.3883	22.11	0.61	22.72	48.10	-25.38	AVG	
11		0.4234	39.56	0.61	40.17	57.38	-17.21	QP	
12		0.4234	21.11	0.61	21.72	47.38	-25.66	AVG	

*:Maximum data x:Over limit !:over margin Reference Only



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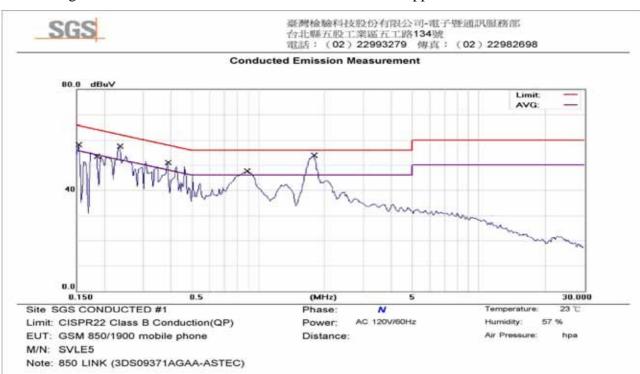
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating **Test Date** :Dec.28, 2005

Fundamental Frequency: N/A Test By :Henk **Temperature** Pol :Neutral : 23°C

Adaptor Model :3DS09371AGAA Humidity : 57%

Test Voltage :120Vac Supplier :Astec



No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	51.92	0.60	52.52	65.79	-13.27	QP	
2		0.1539	31.50	0.60	32.10	55.79	-23.69	AVG	
3		0.1863	50.09	0.60	50.69	64.20	-13.51	QP	
4		0.1863	29.75	0.60	30.35	54.20	-23.85	AVG	
5		0.2359	51.28	0.60	51.88	62.24	-10.36	QP	
6		0.2359	34.47	0.60	35.07	52.24	-17.17	AVG	
7		0.3883	45.13	0.61	45.74	58.10	-12.36	QP	
8		0.3883	29.95	0.61	30.56	48.10	-17.54	AVG	
9		0.8883	44.50	0.62	45.12	56.00	-10.88	QP	
10		0.8883	30.78	0.62	31.40	46.00	-14.60	AVG	
11	*	1.7945	47.67	0.64	48.31	56.00	-7.69	QP	
12		1.7945	26.99	0.64	27.63	46.00	-18.37	AVG	

*:Maximum data x:Over limit !:over margin Reference Only



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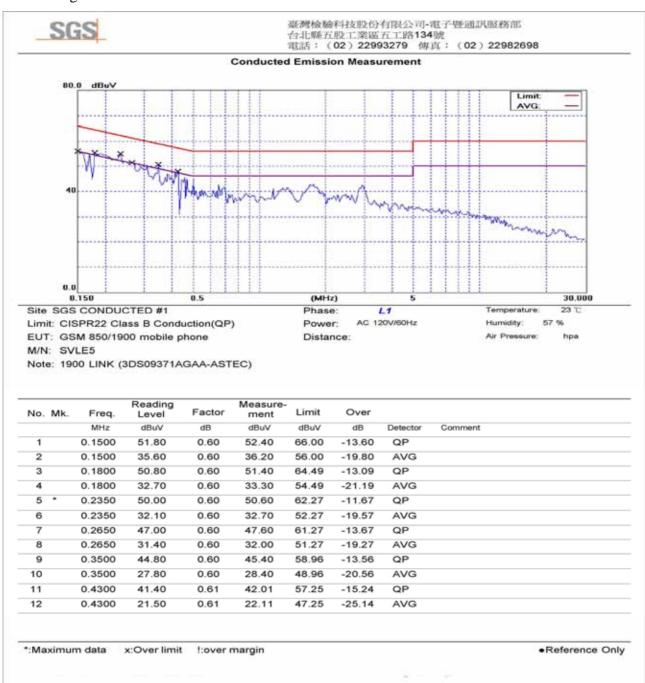
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency : N/A Test By :Henk Temperature : $23^{\circ}C$ Pol :Line

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Serial number :Astec





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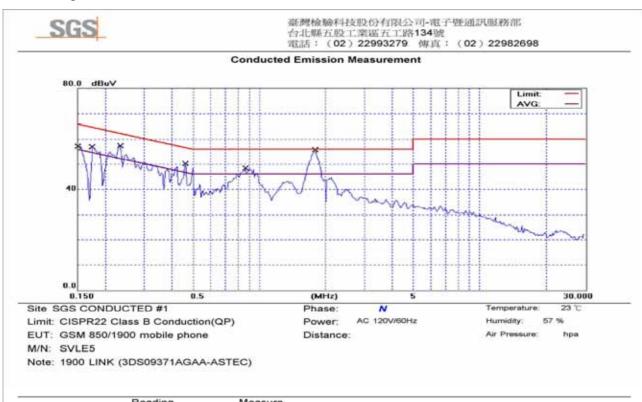
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating **Test Date** :Dec.28, 2005

Fundamental Frequency: N/A Test By :Henk **Temperature** Pol :Neutral : 23°C

Humidity : 57% Adaptor Model :3DS09371AGAA

Test Voltage :120Vac Serial number :Astec



No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1524	52.50	0.60	53.10	65.87	-12.77	QP	
2	0.1524	37.10	0.60	37.70	55.87	-18.17	AVG	
3	0.1750	52.70	0.60	53.30	64.72	-11.42	QP	
4	0.1750	37.00	0.60	37.60	54.72	-17.12	AVG	
5	0.2350	50.50	0.60	51.10	62.27	-11.17	QP	
6	0.2350	31.00	0.60	31.60	52.27	-20.67	AVG	
7	0.4650	42.70	0.61	43.31	56,60	-13.29	QP	
8	0.4650	28.10	0.61	28.71	46.60	-17.89	AVG	
9	0.8700	45.50	0.62	46.12	56.00	-9.88	QP	
10	0.8700	34.10	0.62	34.72	46.00	-11.28	AVG	
11 *	1.8000	46.30	0.64	46.94	56.00	-9.06	QP	
12	1.8000	27.40	0.64	28.04	46.00	-17.96	AVG	

*:Maximum data x:Over limit !:over margin Reference Only



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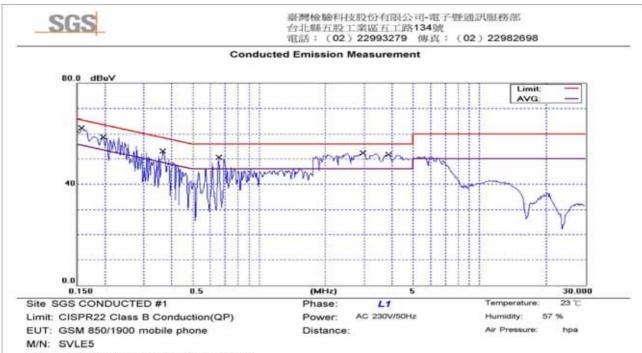
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating Test Date :Dec 28, 2005

Fundamental Frequency: N/A Test By :Henk Pol :Line Temperature : 23°C

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Supplier :Leader



Note: 850 LINK (3DS09371AAAA-LEADER)

No. M	lk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	53.40	0.60	54.00	65.58	-11.58	QP	
2		0.1578	41.00	0.60	41.60	55.58	-13.98	AVG	
3		0.1969	49.60	0.60	50.20	63.74	-13.54	QP	
4		0.1969	41.30	0.60	41.90	53.74	-11.84	AVG	
5		0.3688	48.10	0.61	48.71	58,53	-9.82	QP	
6		0.3688	38.20	0.61	38.81	48.53	-9.72	AVG	
7		0.6578	45.20	0.61	45.81	56.00	-10.19	QP	
8		0.6578	39.40	0.61	40.01	46.00	-5.99	AVG	
9		2.9547	45.80	0.73	46.53	56.00	-9.47	QP	
10 *		2.9547	44.00	0.73	44.73	46.00	-1.27	AVG	
11		3.9014	47.90	0.80	48.70	56.00	-7.30	QP	
12		3.9014	44.60	0.80	45.40	46.00	-0.60	AVG	

*:Maximum data x:Over limit !:over margin Reference Only



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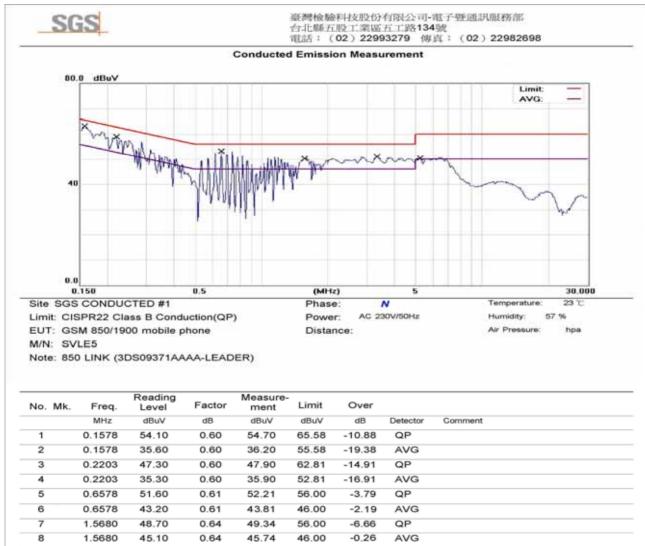
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating Test Date :Dec 28, 2005

Fundamental Frequency: N/A Test By :Henk **Temperature** Pol :Neutral : 23°C

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Supplier :Leader



*:Maximum data x:Over limit			!:over	margin				Reference On
	0.2201	10.20	0.00	10.00	00.00	0.07	7,10	
12	5.2281	45.20	0.86	46.06	50.00	-3.94	AVG	
11	5.2281	47.90	0.86	48.76	60.00	-11.24	QP	
10	3.3375	44.60	0.76	45.36	46.00	-0.64	AVG	
9	3.3375	48.40	0.76	49.16	56.00	-6.84	QP	
8	1.5680	45.10	0.64	45.74	46.00	-0.26	AVG	
7	1.5680	48.70	0.64	49.34	56.00	-6.66	QP	
6	0.6578	43.20	0.61	43.81	46.00	-2.19	AVG	
5	0.6578	51.60	0.61	52.21	56.00	-3.79	QP	
4	0.2203	35.30	0.60	35.90	52.81	-16.91	AVG	
3	0.2203	47.30	0.60	47.90	62.81	-14.91	QP	
2	0.1578	35.60	0.60	36.20	55.58	-19.38	AVG	
1	0.1578	54.10	0.60	54.70	65.58	-10.88	QP	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment



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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency: N/A

Test By

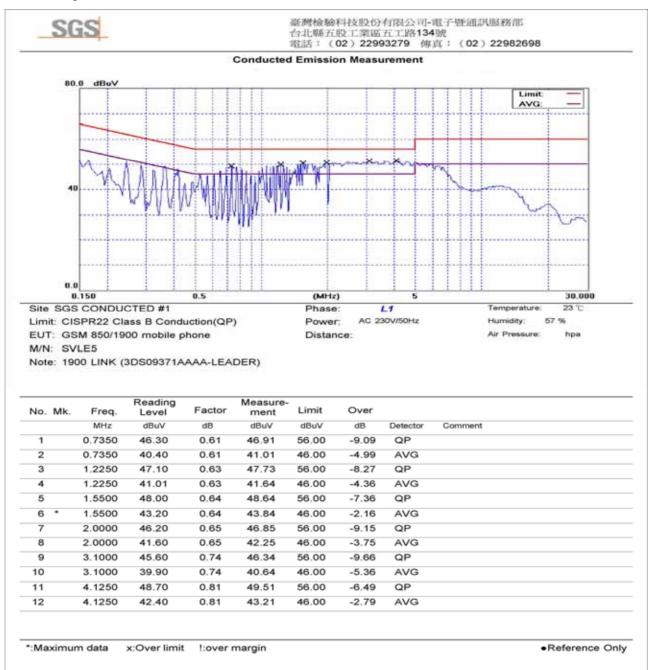
:Henk

Temperature: 23°C

Pol: Line

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Serial number :Leader





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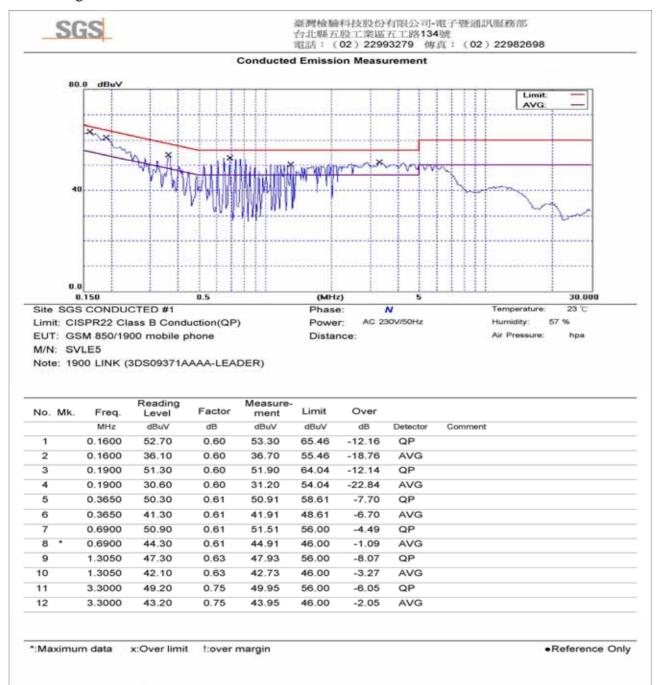
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency : N/A Test By :Henk Temperature : 23° C Pol :Neutral

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Serial number :Leader





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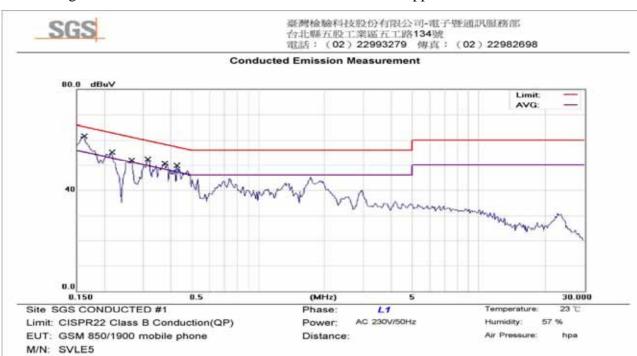
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating Test Date :Dec 28, 2005

Fundamental Frequency: N/A Test By :Henk Pol :Line Temperature : 23°C

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Supplier :Astec



Note: 850 LINK (3DS09371AAAA-ASTEC)

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1617	55.10	0.60	55.70	65.38	-9.68	QP	
2		0.1617	35.70	0.60	36.30	55.38	-19.08	AVG	
3		0.2164	51.20	0.60	51.80	62.96	-11.16	QP	
4		0.2164	32.20	0.60	32.80	52.96	-20.16	AVG	
5		0.2672	48.20	0.60	48.80	61.20	-12.40	QP	
6		0.2672	34.90	0.60	35.50	51.20	-15.70	AVG	
7		0.3141	45.90	0.60	46.50	59.86	-13.36	QP	
8		0.3141	30.50	0.60	31.10	49.86	-18.76	AVG	
9		0.3766	41.60	0.61	42.21	58.35	-16.14	QP	
10		0.3766	28.00	0.61	28.61	48.35	-19.74	AVG	
11		0.4273	37.50	0.61	38.11	57.31	-19.20	QP	
12		0.4273	24.00	0.61	24.61	47.31	-22.70	AVG	

*:Maximum data x:Over limit !:over margin Reference Only



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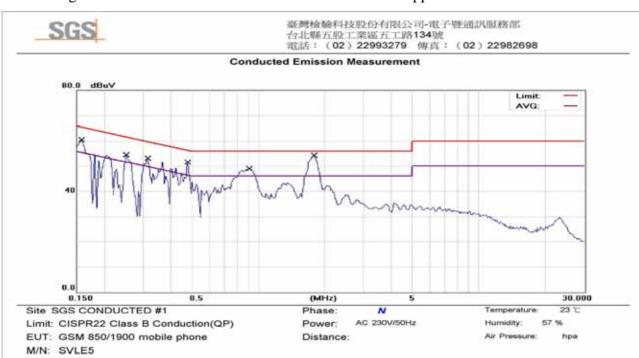
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM850 Normal Operating Test Date :Dec 28, 2005

Fundamental Frequency: N/A Test By :Henk **Temperature** Pol :Neutral : 23°C

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Supplier :Astec



Note: 850 LINK (3DS09371AAAA-ASTEC)

No. I	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1578	53.98	0.60	54.58	65.58	-11.00	QP	
2		0.1578	39.69	0.60	40.29	55.58	-15.29	AVG	
3		0.2516	49.70	0.60	50.30	61.70	-11.40	QP	
4	*	0.2516	45.10	0.60	45.70	51.70	-6.00	AVG	
5		0.3141	47.90	0.60	48.50	59.86	-11.36	QP	
6		0.3141	37.90	0.60	38.50	49.86	-11.36	AVG	
7		0.4781	42.90	0.61	43.51	56.37	-12.86	QP	
8		0.4781	30.80	0.61	31.41	46.37	-14.96	AVG	
9		0.9078	45.70	0.62	46.32	56.00	-9.68	QP	
10		0.9078	28.30	0.62	28.92	46.00	-17.08	AVG	
11		1.7945	49.20	0.64	49.84	56.00	-6.16	QP	
12		1.7945	29.70	0.64	30.34	46.00	-15.66	AVG	

*:Maximum data x:Over limit !:over margin Reference Only



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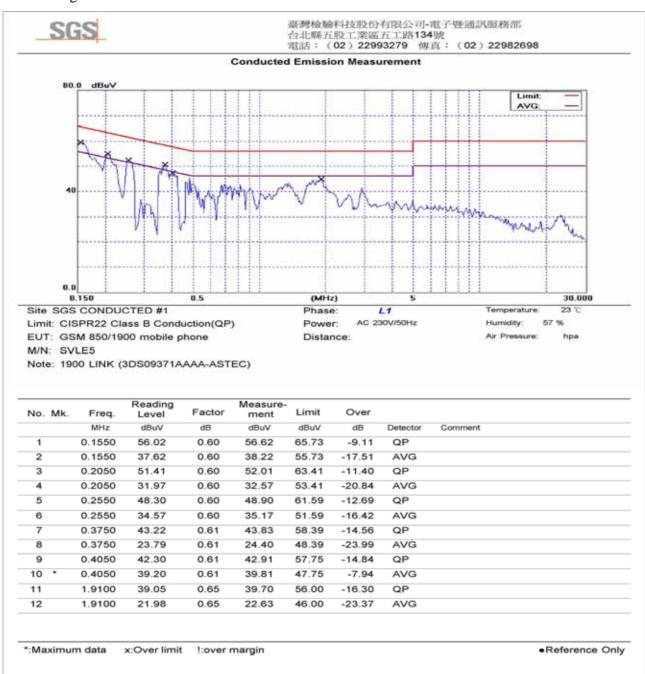
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating Test Date :Dec.28, 2005

Fundamental Frequency : N/A Test By :Henk Temperature : $23^{\circ}C$ Pol :Line

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Serial number :Astec





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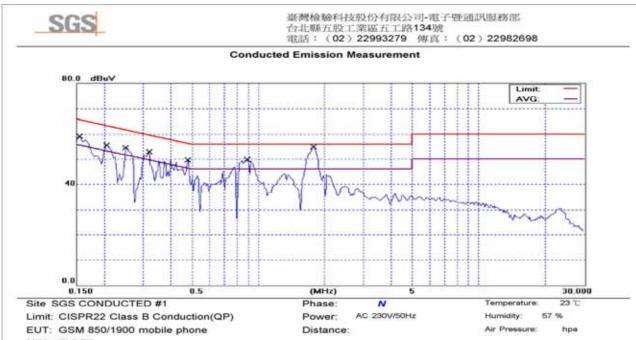
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode : GSM1900 Normal Operating **Test Date** :Dec.28, 2005

Fundamental Frequency: N/A Test By :Henk **Temperature** Pol :Neutral : 23°C

Humidity : 57% Adaptor Model :3DS09371AAAA

Test Voltage :230Vac Serial number :Astec



M/N: SVLE5

Note: 1900 LINK (3DS09371AAAA-ASTEC)

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	55.66	0.60	56.26	65.73	-9.47	QP	
2		0.1550	41.64	0.60	42.24	55.73	-13.49	AVG	
3		0.2050	51.35	0.60	51.95	63.41	-11.46	QP	
4		0.2050	35.03	0.60	35.63	53.41	-17.78	AVG	
5		0.2500	52.60	0.60	53.20	61,76	-8.56	QP	
6	*	0.2500	43.30	0.60	43.90	51.76	-7.86	AVG	
7		0.3200	48.00	0.60	48.60	59.71	-11.11	QP	
8		0.3200	38.70	0.60	39.30	49.71	-10.41	AVG	
9		0.4800	43.20	0.61	43.81	56.34	-12.53	QP	
10		0.4800	31.10	0.61	31.71	46.34	-14.63	AVG	
11		0.8950	47.30	0.62	47.92	56.00	-8.08	QP	
12		0.8950	36.00	0.62	36.62	46.00	-9.38	AVG	
13		1.7750	47.10	0.64	47.74	56.00	-8.26	QP	
14		1.7750	28.70	0.64	29.34	46.00	-16.66	AVG	
:Ma	ximur	m data	x:Over limit	!:over	margin				Reference On



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APPENDIX 1

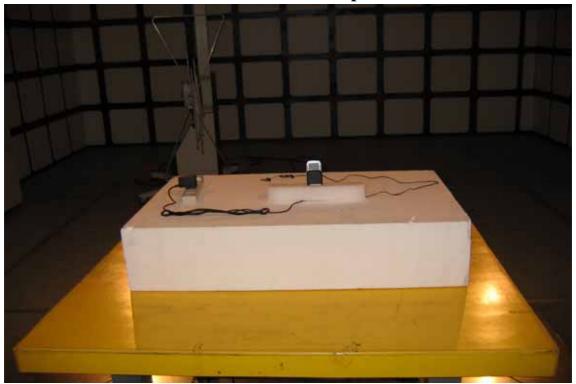
PHOTOGRPHS OF SET UP



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Radiated Emission Set up Photos



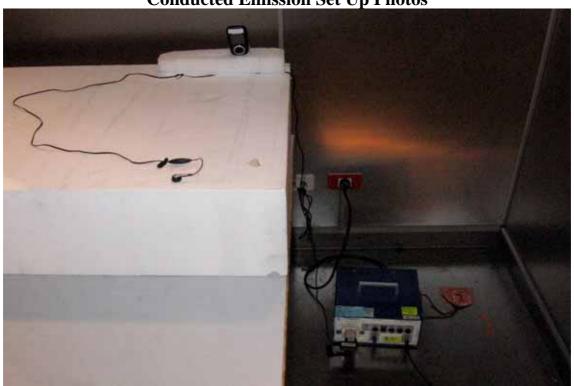


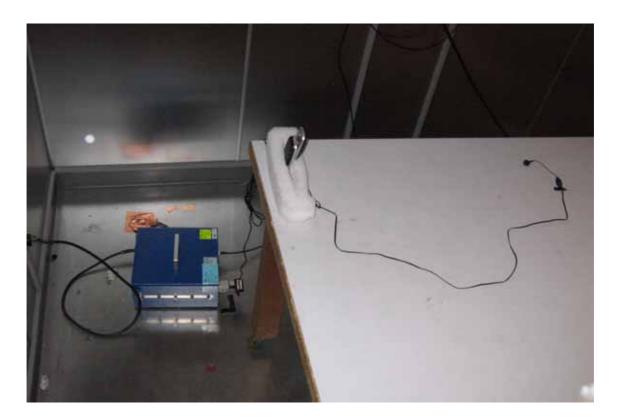


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Conducted Emission Set Up Photos







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APPENDIX 2 PHOTOGRPHS OF EUT



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All of EUT



Front View of EUT





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Back View of EUT



Left View of EUT





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Right View of EUT



Top View of EUT

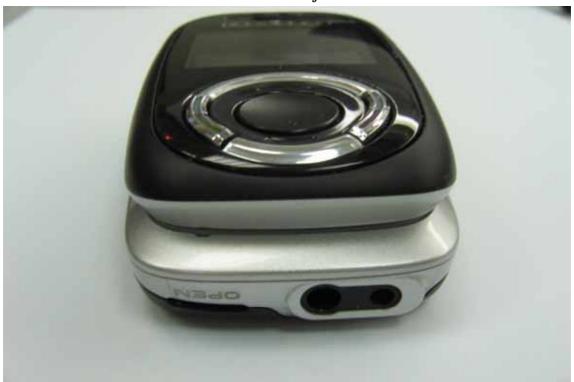




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Bottom View of EUT







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Adaptor-3DS09371AGAA Supplier: Astec



Adaptor-3DS09371AAAA Supplier: Astec





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Adaptor-3DS09371AGAA Supplier: Leader Electronics



Adaptor-3DS09371AGAA Supplier: Leader Electronics





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Adaptor-3DS07848AAAA Supplier: Primax





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Open View of EUT



Internal of EUT --- 1





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Internal of EUT --- 2



Internal of EUT --- 3





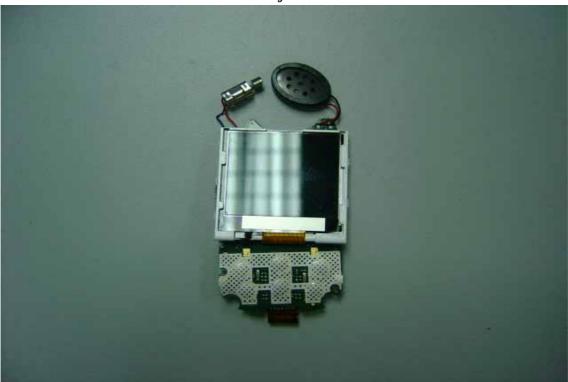
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Internal of EUT --- 4



Internal of EUT --- 5





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Internal of EUT --- 6



Internal of EUT --- 7

