ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART PART 24 SUBPART E

OF

Product Name:	**DX2007S1**
Brand Name:	**SAGEM**
Model Name:	**DX2007S1**
FCC ID:	**M9HDX07S1**
Report No.:	**ER/2007/50002**
Issue Date:	**May 16, 2007**
FCC Rule Part:	**2 , 24E**
Prepared for	**SAGEM Communication** **2, rue du Petit Albi, BP 28250, 95801 CERGY PONTOISE Cedex**
Prepared by	**SGS Taiwan Ltd.** **No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.**

VERIFICATION OF COMPLIANCE

Applicant:	SAGEM Communication 2, rue du Petit Albi, BP 28250, 95801 CERGY PONTOISE Cedex
Equipment Under Test:	DX2007S1
FCC ID Number:	M9HDX07S1
Brand Name:	SAGEM
Model No.:	DX2007S1
Model Difference:	N/A
File Number:	ER/2007/50002
Date of test:	May 05, 2007 ~ May. 15, 2007
Date of EUT Received:	May 05, 2007

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-1-1998 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 PART 24 subpart E.

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

Test By:	Jazz Huang	***Date***	May 16, 2007
	Jazz Huang/Engineer		
Prepared By:	Elisa Chen	***Date***	May 16, 2007
	Elisa Chen/Asst. Supervisor		
Approved By:	Vincent Su	***Date***	May 16, 2007
	Vincent Su/Manager		

Version

Version No.	Date
00	May 16, 2007
01	May 18, 2007

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GENERAL INFORMATION

Product Description

Product	DX2007S1
Brand Name	SAGEM
Model Name	DX2007S1
Model Difference:	N/A
Power Supply	3.7 Vdc from re-chargeable battery, model: 287121652 and 287144366, or 12Vdc from car adaptor model: 189480235, or 5Vdc from AC/DC power adapters, model: 189193837, Supplier: SAGEM

GSM:

Frequency Range and Power	GSM 1900: 1850MHz –1910MHz	30 dBm
Type of Emission	300KGXW	
Software Version	L 5,RE	
Hardware Version	V0x	
IMEI	011273009995721	

Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	-0.22 dBm
Modulation type	Frequency Hopping Spread Spectrum (FHSS)(FGSK)
Antenna Designation	PIFA Antenna, -0.1 dBi

The EUT is compliance with Bluetooth Standard.

1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **M9HDX07S1** filing to comply with Section Part 24 subpart E of the FCC CFR 47 Rules.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

1.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 &10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by TAF (0513). Canada Registration Number: 4620A-1

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 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

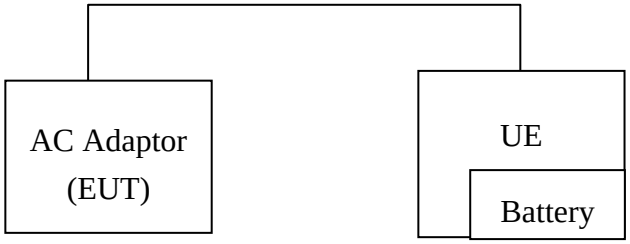
The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

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



Remote Side

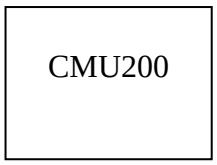


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded

3. SUMMARY OF TEST RESULTS

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

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for both GSM and GPRS with all power adaptors, earphone and Data cable. The worst-case E1 mode for GSM 1900 band with adaptor for channel Low, Mid and High at GSM mode was reported.

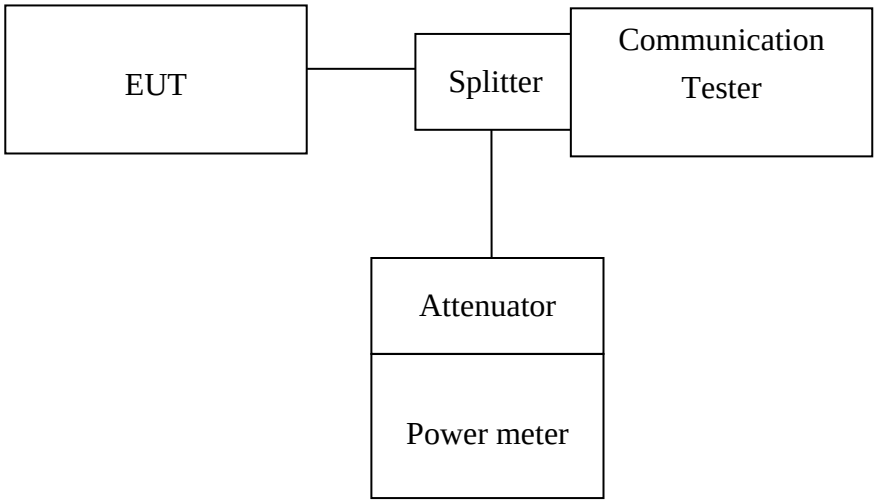
5. RF POWER OUTPUT MEASUREMENT

5.1 Standard Applicable

According to FCC §2.1046.

FCC 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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2006	06/29/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2006	10/13/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2006	09/22/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2006	09/22/2007
Splitter	Agilent	11636B	51728	09/23/2006	09/22/2007
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	3.68	26.60	30.28
	1880.00	661	3.30	26.60	29.90
	1909.80	810	3.22	26.60	29.82

6. ERP, EIRP MEASUREMENT

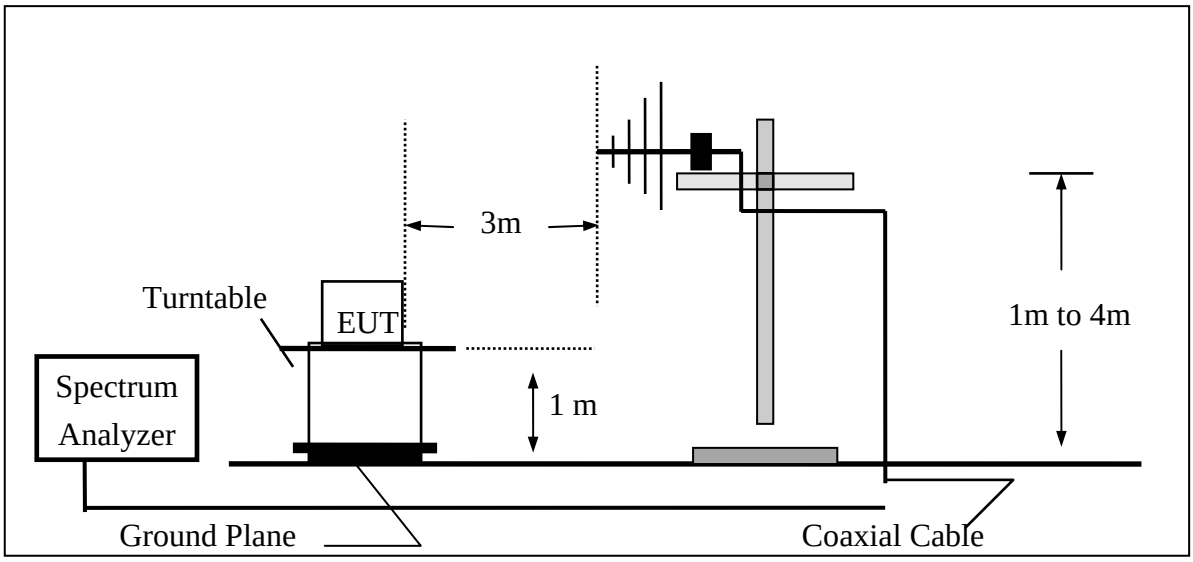
6.1 Standard Applicable

According to FCC §2.1046

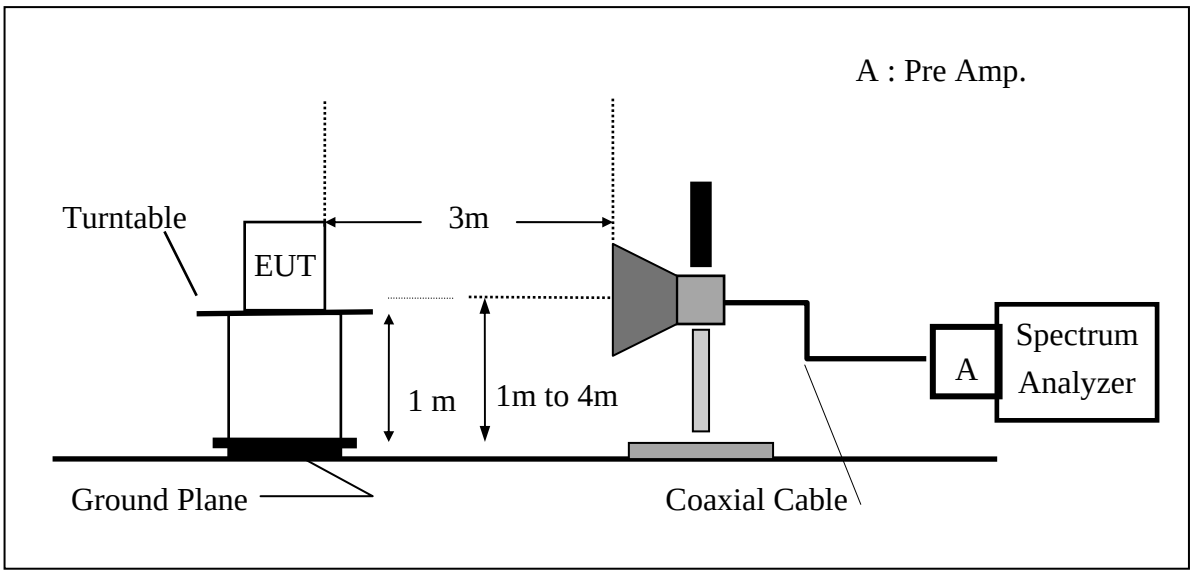
FCC 24.232(b) Mobile station are limited to 2W EIRP.

6.2 Test SET-UP (Block Diagram of Configuration)

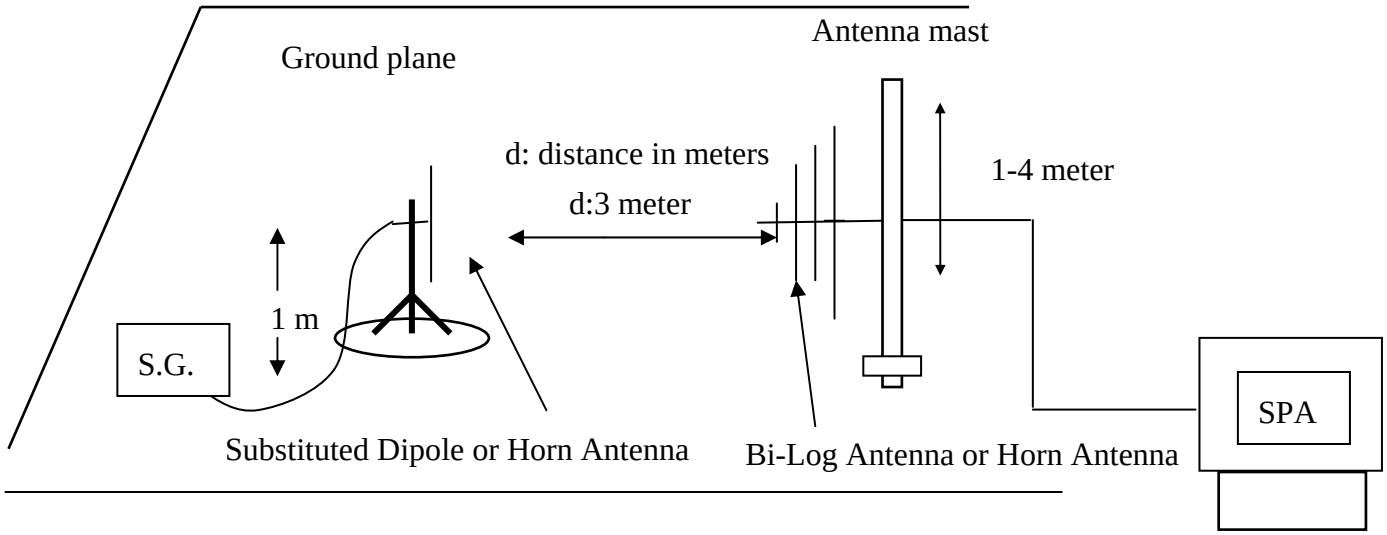
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(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.

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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2006	06/02/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2006	09/22/2007
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2006	06/11/2007
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2006	06/11/2007
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2006	08/15/2007

6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	125.23	20.84	9.90	5.56	25.18	33.00
				H	128.18	24.00	9.90	5.56	28.34	33.00
			E1	V	128.73	24.34	9.90	5.56	28.68	33.00
				H	126.46	22.28	9.90	5.56	26.62	33.00
			E2	V	127.48	23.09	9.90	5.56	27.43	33.00
				H	128.52	24.34	9.90	5.84	28.40	33.00
	1880.00	661	H	V	126.52	22.16	9.99	5.61	26.54	33.00
				H	130.83	26.69	9.99	5.61	31.06	33.00
			E1	V	129.95	25.59	9.99	5.61	29.97	33.00
				H	127.72	23.58	9.99	5.61	27.95	33.00
			E2	V	127.87	23.51	9.99	5.61	27.89	33.00
				H	129.78	25.64	9.99	5.61	30.01	33.00
	1909.80	810	H	V	125.76	21.43	10.08	5.66	25.85	33.00
				H	129.92	25.81	10.08	5.66	30.23	33.00
			E1	V	129.63	25.30	10.08	5.66	29.72	33.00
				H	126.09	21.98	10.08	5.66	26.40	33.00
			E2	V	128.60	24.27	10.08	5.66	28.69	33.00
				H	130.04	25.93	10.08	5.66	30.35	33.00

Remark：

(1) The RBW,VBW of SPA for frequency

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

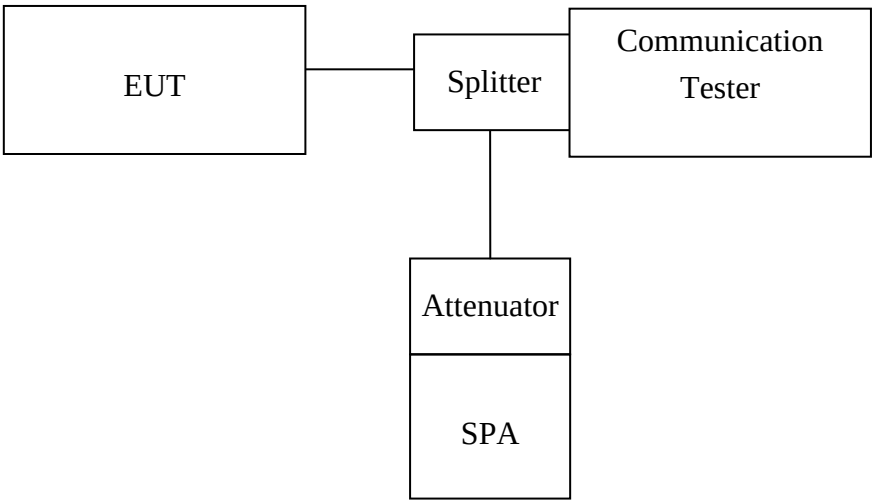
Above 1GHz was RBW= 1MHz , VBW= 3MHz

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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2457
	1880.00	661	0.2481
	1909.80	810	0.2431

Figure 7-4: PCS Channel Low

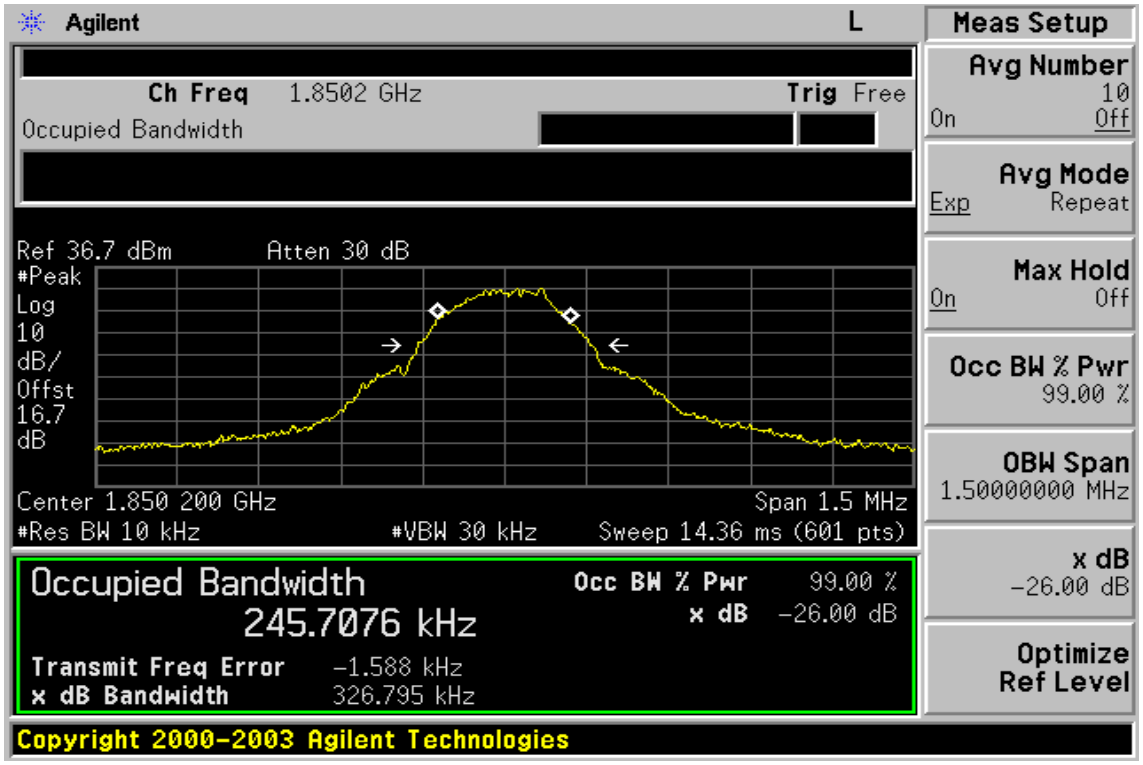


Figure 7-5 PCS Channel Mid

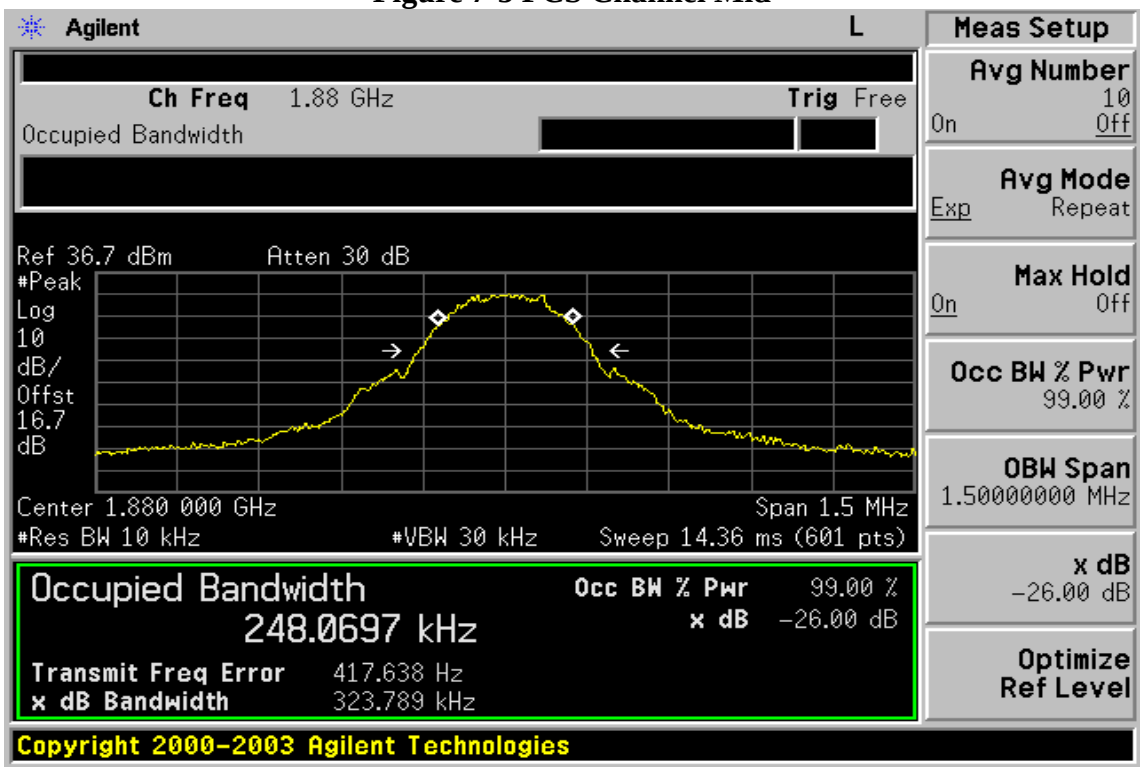
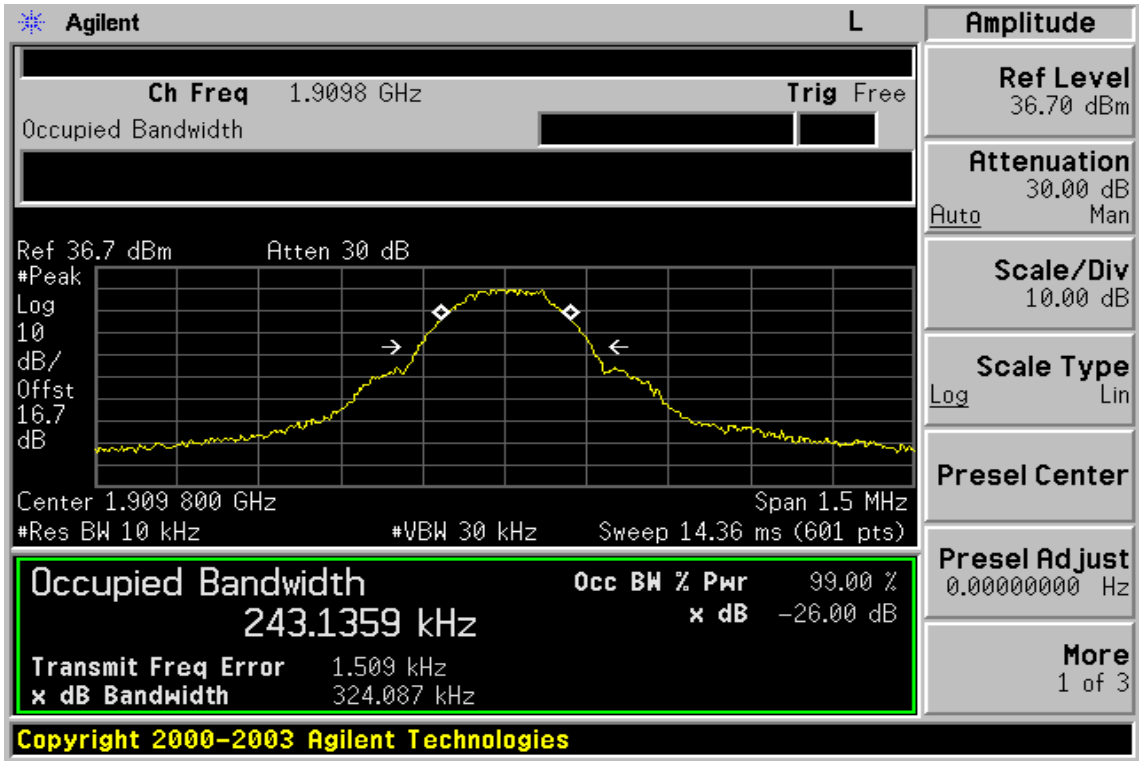


Figure 7-6: PCS Channel High



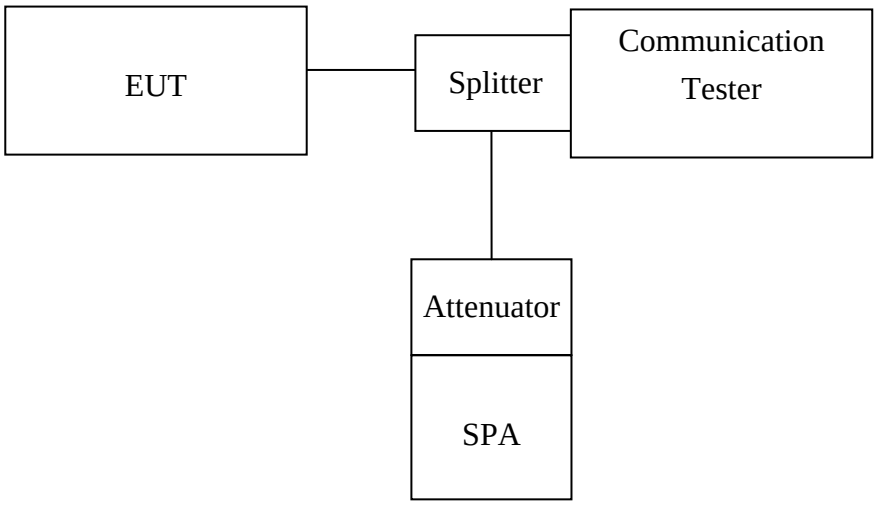
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

FCC §24.238(a), the magnitude of 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

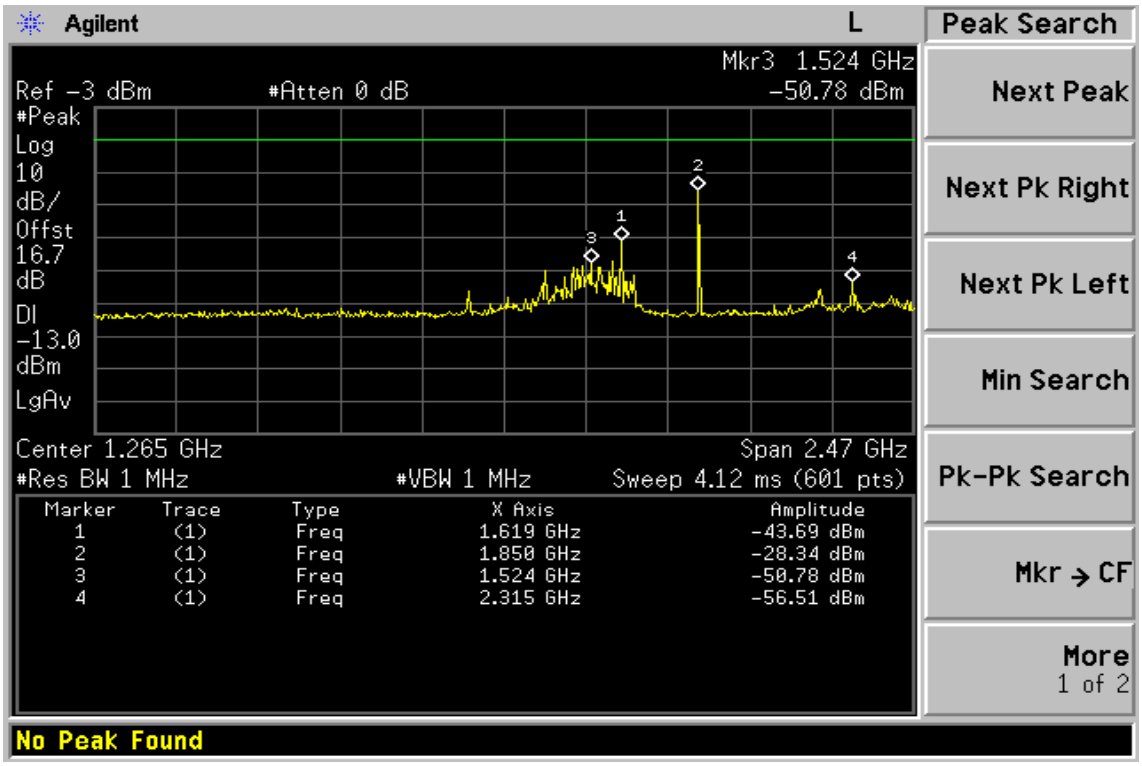
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

8.5 Measurement Result

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



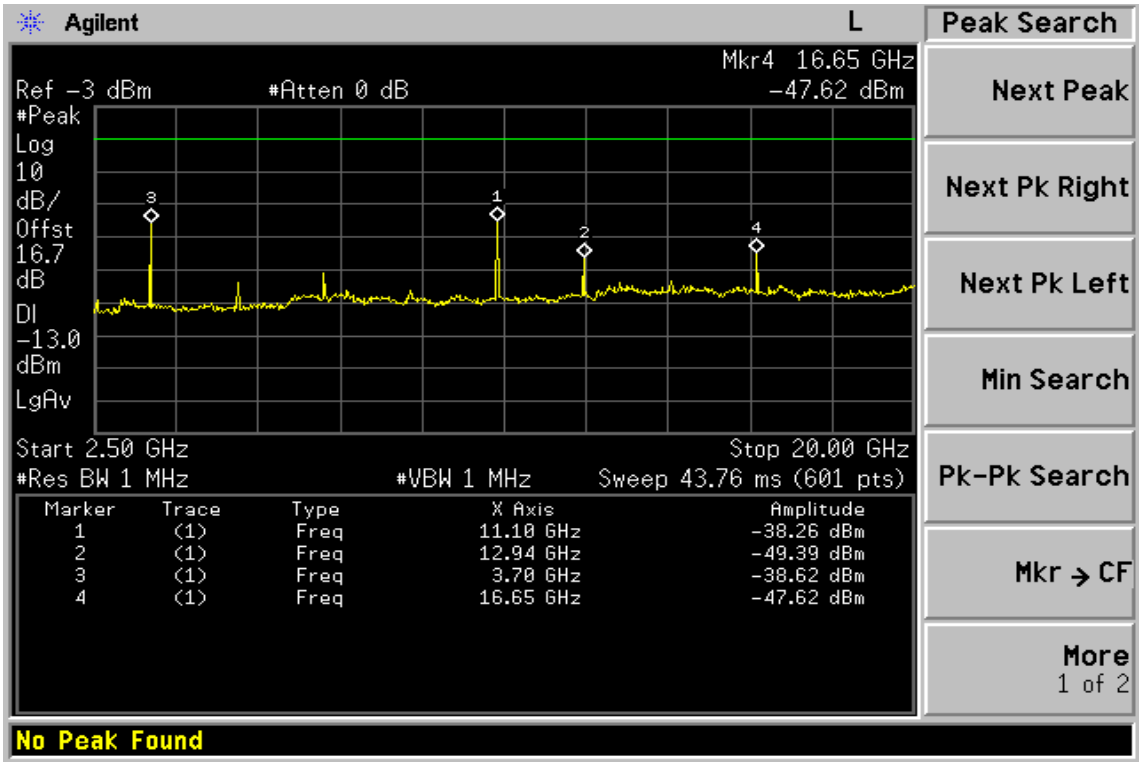
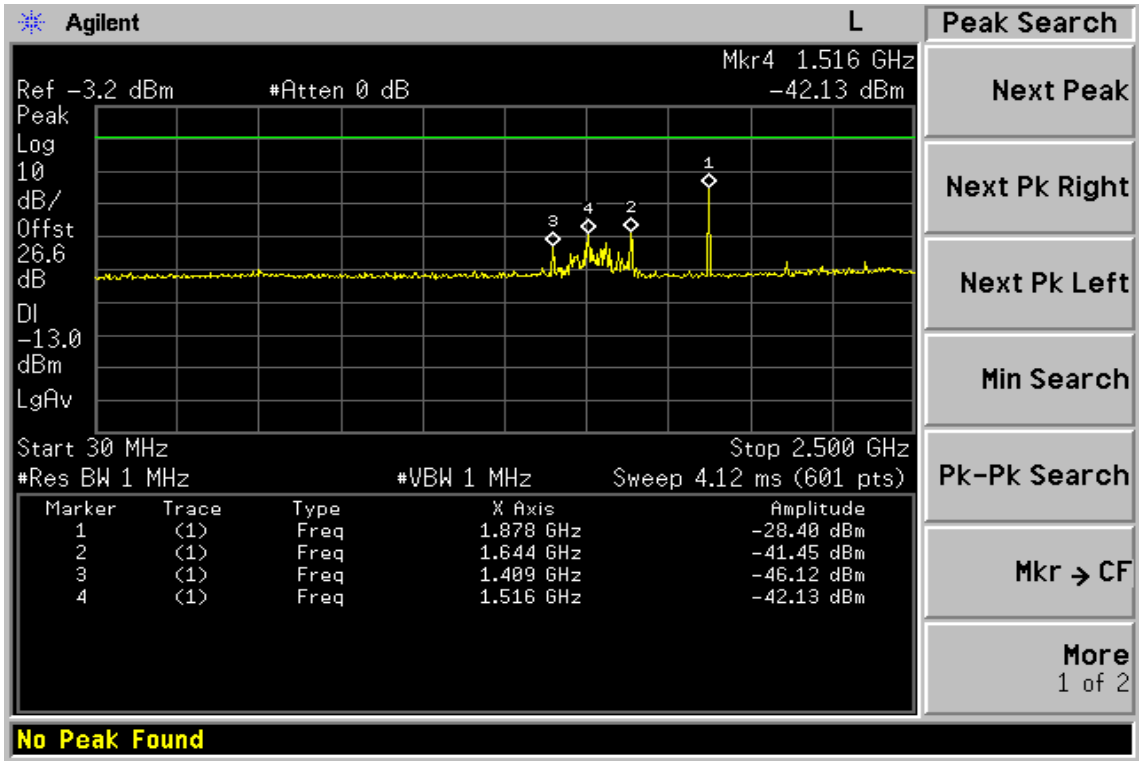


Figure 8-2: Out of Band emission at antenna terminals –PCS Channel Mid



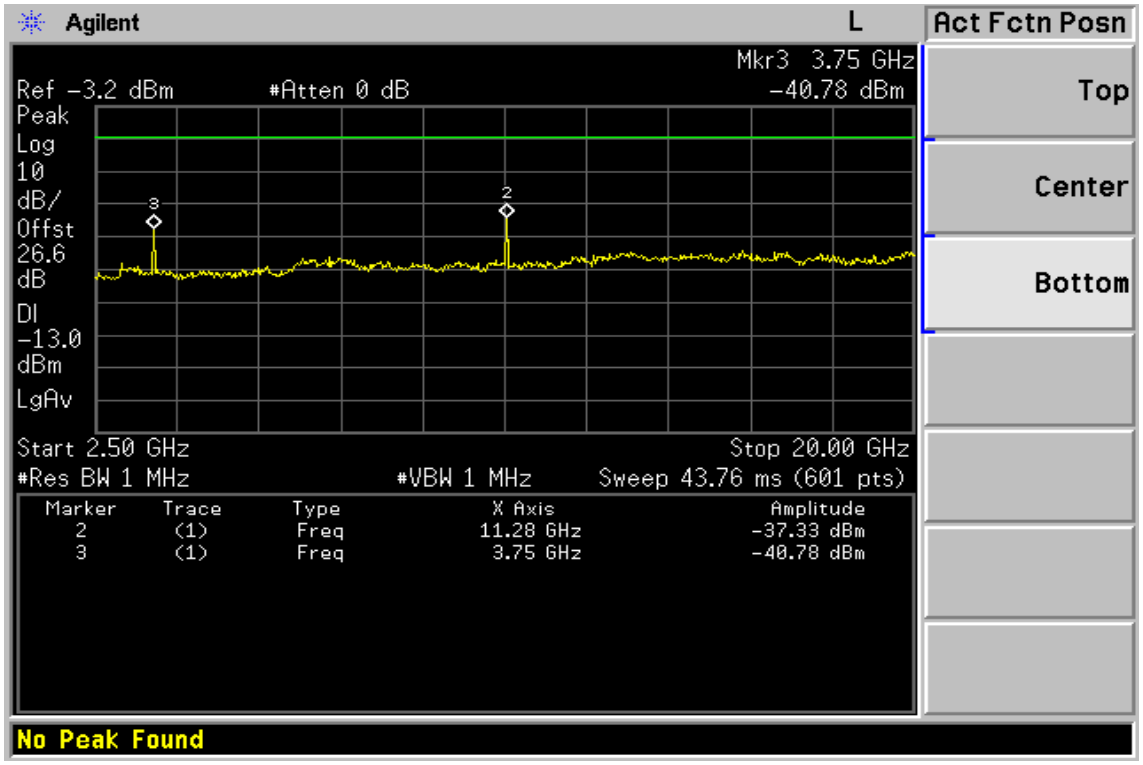
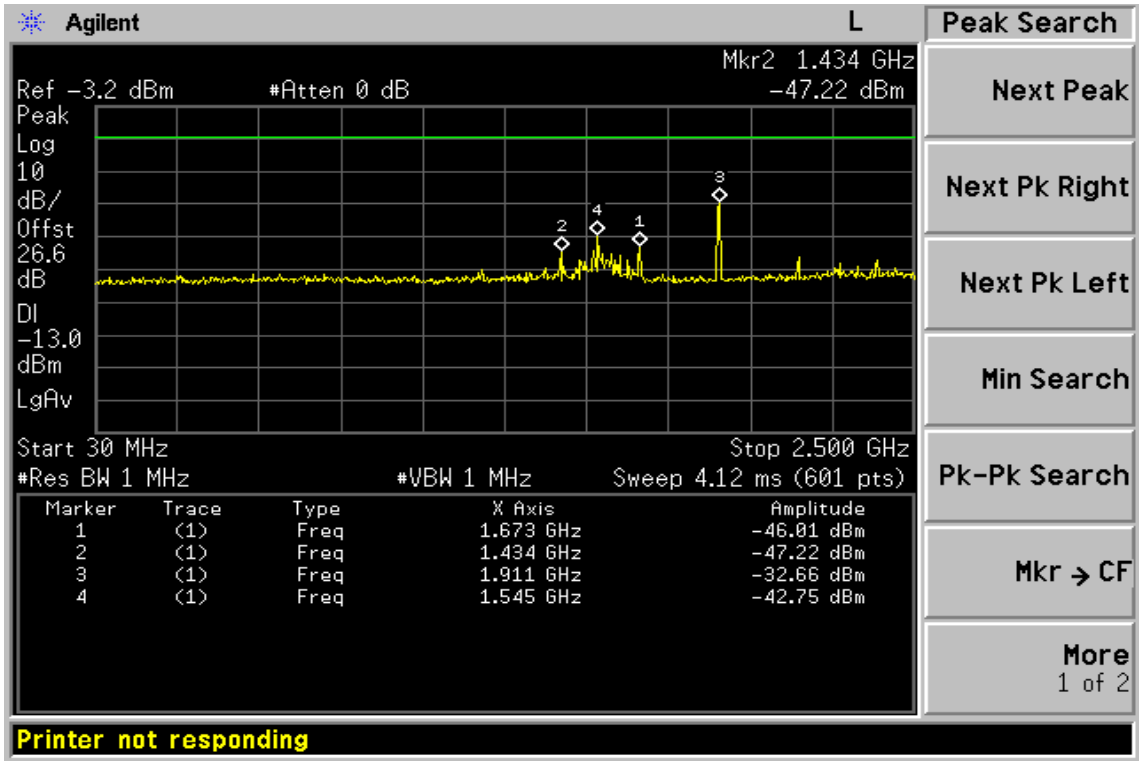


Figure 8-3: Out of Band emission at antenna terminals–PCS Channel Highest



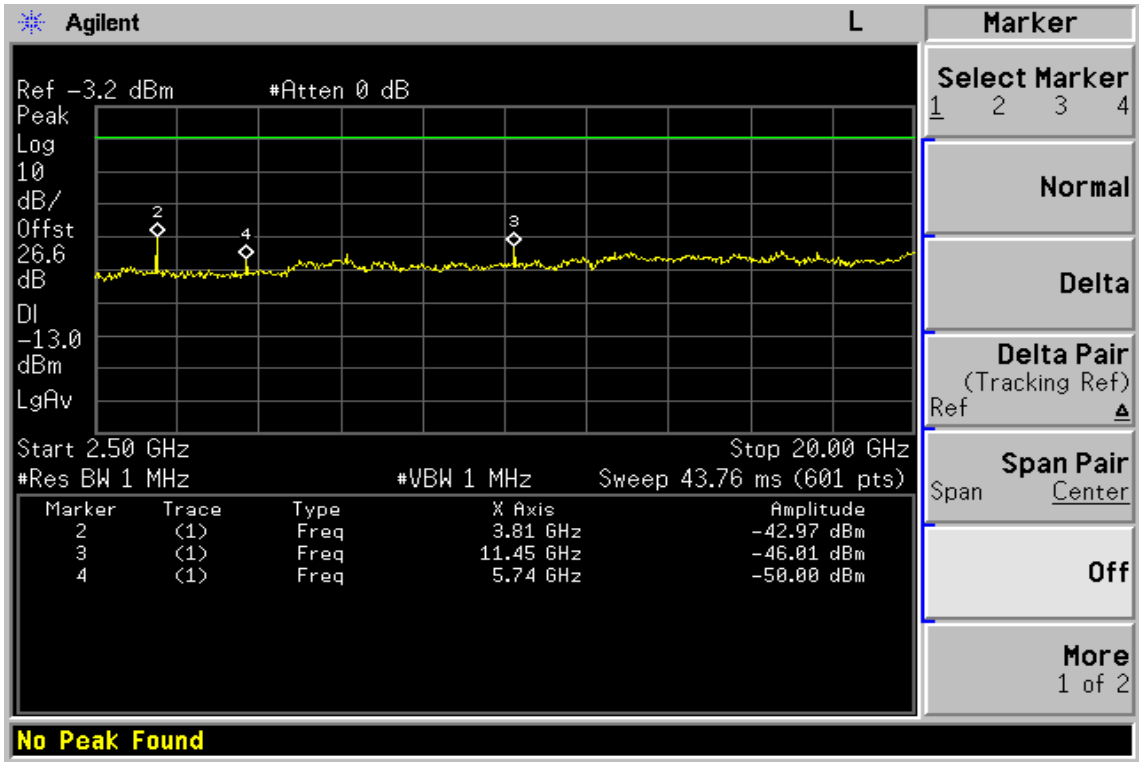


Figure 8-4: Band edge emission at antenna terminals – PCS Channel Lowest

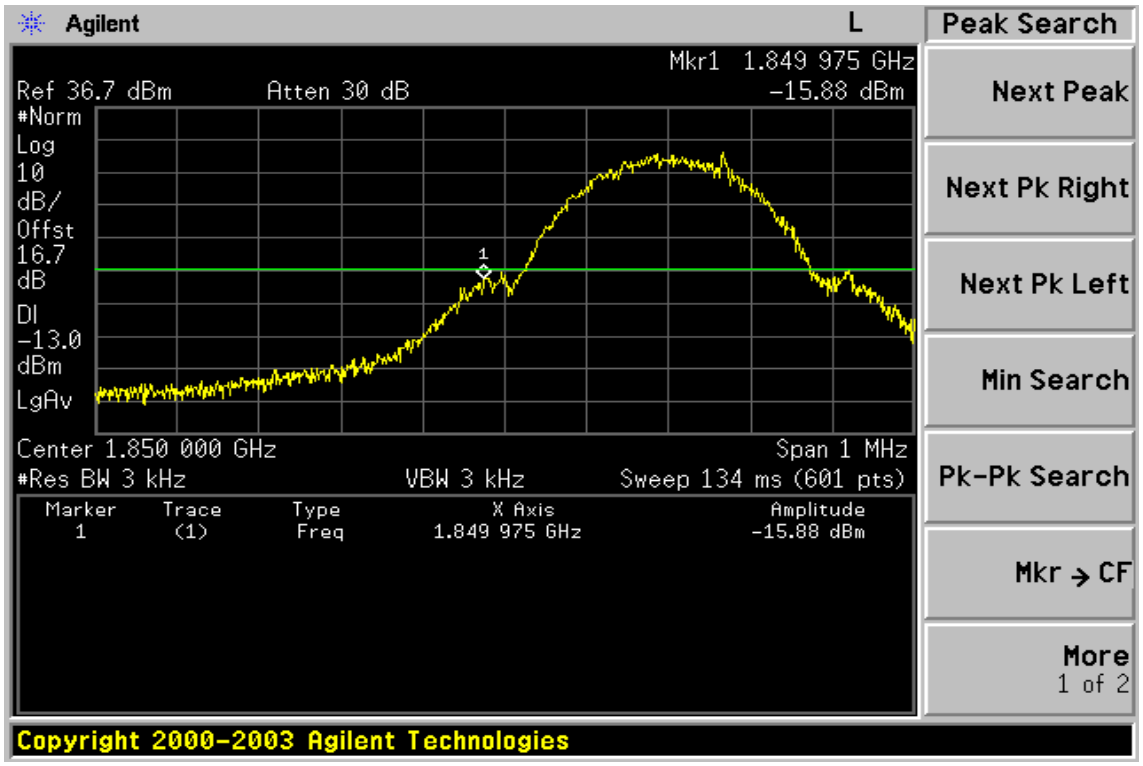
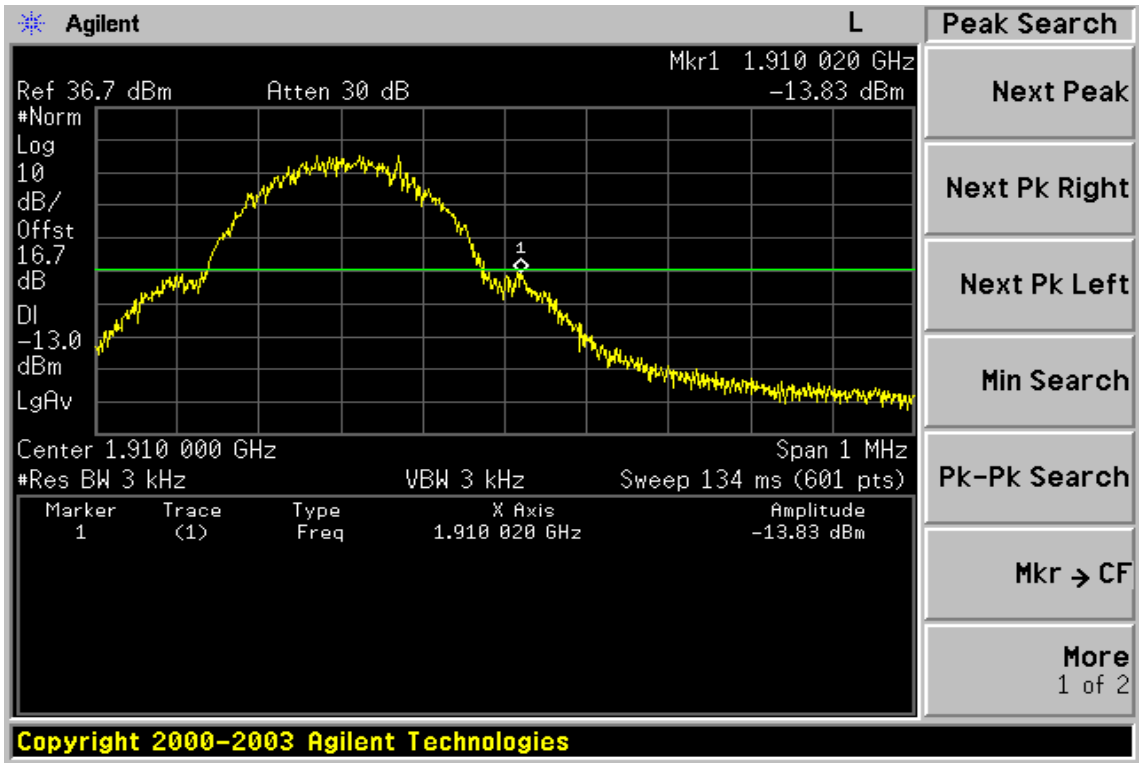


Figure 8-5: Band edge emission at antenna terminals – PCS Channel Highest



9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

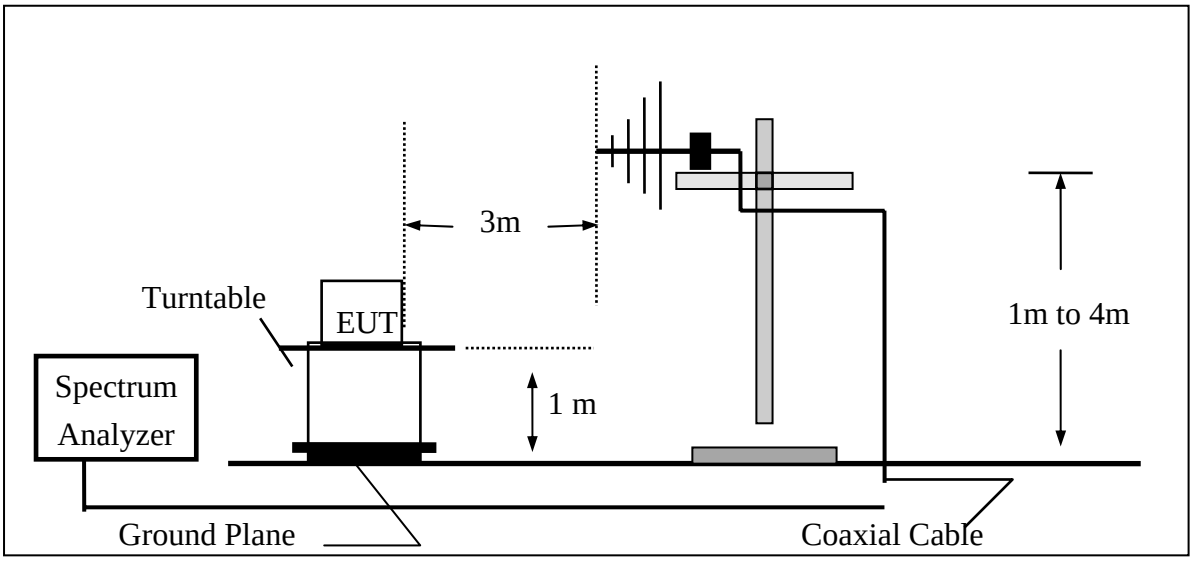
9.1 Standard Applicable

According to FCC §2.1053,

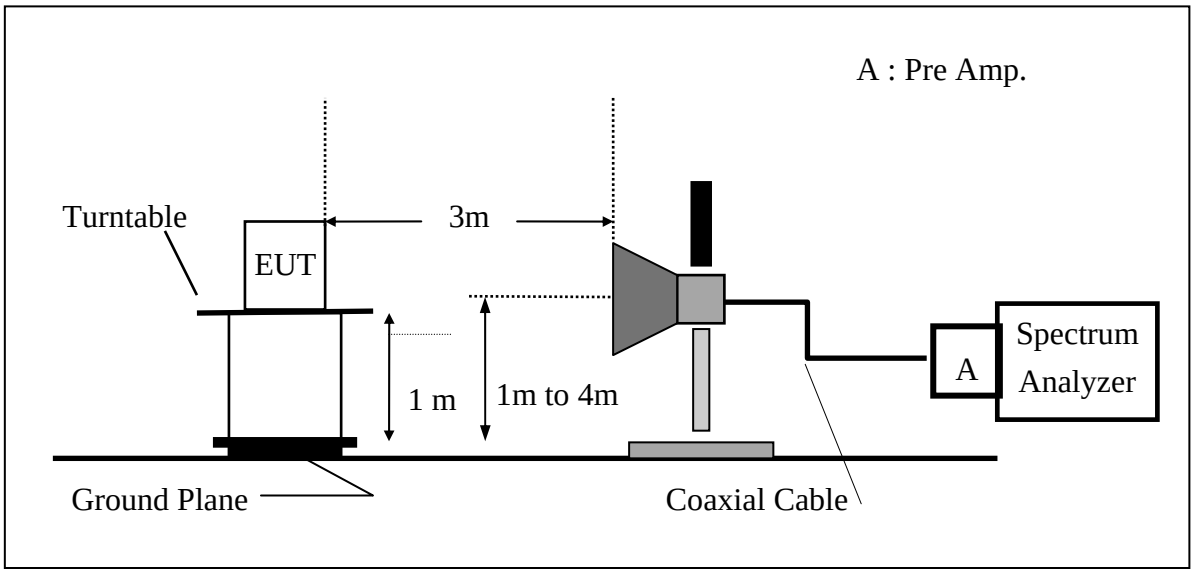
FCC §24.238(a), the magnitude of spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside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

9.2 EUT Setup (Block Diagram of Configuration)

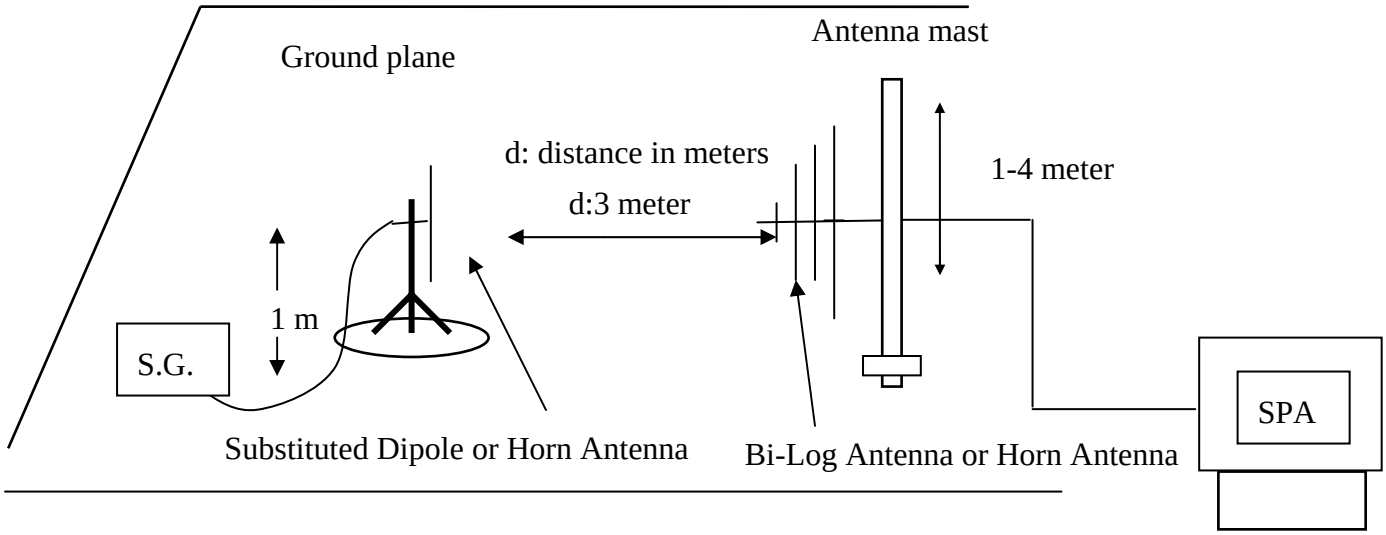
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(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.

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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2006	08/26/2007
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2006	06/02/2007
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2006	08/15/2007
Pre-Amplifier	HP	8447D	2944A09469	07/19/2006	07/18/2007
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2006	10/08/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2006	10/08/2007
Site NSA	SGS	966 chamber	N/A	11/17/2006	11/16/2007
Site NSA	SGS	10m Open-Site	N/A	10/02/2006	10/01/2007
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2006	10/13/2007
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2006	06/11/2007
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2006	06/11/2007
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2006	08/15/2007

9.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date	May 11, 2007
Fundamental Frequency	: 1850.20MHz	Test By:	Jazz
Temperature	: 25℃	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	52.17	V	-51.97	-6.43	0.94	-59.34	-13.00	-46.34
58.13	46.94	V	-63.56	-0.49	1.08	-65.12	-13.00	-52.12
101.78	43.40	V	-58.36	-7.76	1.37	-67.48	-13.00	-54.48
1609.00	43.14	V	-61.48	9.17	5.16	-57.47	-13.00	-44.47
1849.99	80.06	V	-24.33	9.90	5.56	-19.99	-13.00	-6.99
3688.00	39.75	V	-58.23	12.61	8.29	-53.92	-13.00	-40.92
3700.40	---	V		12.61	8.31		-13.00	
5543.00	44.89	V	-45.97	13.21	10.32	-43.08	-13.00	-30.08
5550.60	---	V		13.23	10.33		-13.00	
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date	May 11, 2007
Fundamental Frequency	: 1850.20MHz	Test By:	Jazz
Temperature	: 25℃	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
43.58	46.56	H	-57.78	-1.92	0.98	-60.67	-13.00	-47.67
70.74	48.24	H	-64.07	-1.18	1.16	-66.41	-13.00	-53.41
101.78	44.31	H	-58.50	-7.76	1.37	-67.63	-13.00	-54.63
1434.00	42.21	H	-62.66	8.46	4.32	-58.52	-13.00	-45.52
1609.00	47.61	H	-56.84	9.17	5.16	-52.83	-13.00	-39.83
1849.98	81.01	H	-23.17	9.90	5.56	-18.83	-13.00	-5.83
3688.00	41.56	H	-56.54	12.61	8.29	-52.22	-13.00	-39.22
3700.40	---	H		12.61	8.31		-13.00	
5543.00	43.07	H	-48.01	13.21	10.32	-45.11	-13.00	-32.11
5550.60	---	H		13.23	10.33		-13.00	
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date	May 11, 2007
Fundamental Frequency	: 1880MHz	Test By	Jazz
Temperature	: 25℃	Pol	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
31.94	52.64	V	-51.50	-6.43	0.94	-58.87	-13.00	-45.87
58.13	49.29	V	-61.21	-0.49	1.08	-62.77	-13.00	-49.77
101.78	45.73	V	-56.03	-7.76	1.37	-65.15	-13.00	-52.15
1644.00	40.56	V	-64.03	9.27	5.22	-59.97	-13.00	-46.97
3760.00	38.42	V	-59.24	12.60	8.39	-55.02	-13.00	-42.02
5634.00	45.77	V	-44.83	13.35	10.41	-41.88	-13.00	-28.88
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date	May 11, 2007
Fundamental Frequency	: 1880MHz	Test By	Jazz
Temperature	: 25℃	Pol	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
30.00	45.32	H	-60.58	-7.34	0.95	-68.87	-13.00	-55.87
70.74	49.01	H	-63.30	-1.18	1.16	-65.64	-13.00	-52.64
101.78	44.35	H	-58.46	-7.76	1.37	-67.59	-13.00	-54.59
1644.00	43.35	H	-61.06	9.27	5.22	-57.00	-13.00	-44.00
3760.00	38.46	H	-59.31	12.60	8.39	-55.10	-13.00	-42.10
5634.00	43.35	H	-47.42	13.35	10.41	-44.48	-13.00	-31.48
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date	May 11, 2007
Fundamental Frequency	: 1909.8 MHz	Test By	Jazz
Temperature	: 25℃	Pol	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	46.94	V	-63.56	-0.49	1.08	-65.12	-13.00	-52.12
101.78	43.40	V	-58.36	-7.76	1.37	-67.48	-13.00	-54.48
130.88	34.34	V	-64.72	-7.78	1.50	-74.01	-13.00	-61.01
1658.00	45.85	V	-58.73	9.32	5.24	-54.65	-13.00	-41.65
1910.20	80.32	V	-24.01	10.08	5.66	-19.59	-13.00	-6.59
3981.60		V		12.60	8.69		-13.00	
5718.00	47.69	V	-42.66	13.48	10.49	-39.67	-13.00	-26.67
5972.40	---	V		13.86	10.73		-13.00	
7963.20	---	V		11.27	12.49		-13.00	
9954.00	---	V		12.08	14.24		-13.00	
11944.80	---	V		13.08	15.87		-13.00	
13935.60	---	V		11.82	17.21		-13.00	
15926.40	---	V		17.08	18.70		-13.00	
17917.20	---	V		9.63	19.97		-13.00	
19908.00	---	V		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH High H Mode	Test Date	May 11, 2007
Fundamental Frequency	: 1909.8 MHz	Test By	Jazz
Temperature	: 25℃	Pol	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	48.24	H	-64.07	-1.18	1.16	-66.41	-13.00	-53.41
101.78	44.31	H	-58.50	-7.76	1.37	-67.63	-13.00	-54.63
1434.00	41.05	H	-63.82	8.46	4.32	-59.68	-13.00	-46.68
1658.00	43.72	H	-60.67	9.32	5.24	-56.60	-13.00	-43.60
1910.00	83.36	H	-20.75	10.08	5.66	-16.33	-13.00	-3.33
3981.60	---	H		12.60	8.69		-13.00	
5718.00	44.19	H	-46.30	13.48	10.49	-43.31	-13.00	-30.31
5972.40	---	H		13.86	10.73		-13.00	
7963.20	---	H		11.27	12.49		-13.00	
9954.00	---	H		12.08	14.24		-13.00	
11944.80	---	H		13.08	15.87		-13.00	
13935.60	---	H		11.82	17.21		-13.00	
15926.40	---	H		17.08	18.70		-13.00	
17917.20	---	H		9.63	19.97		-13.00	
19908.00	---	H		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 (dB/dBi) – Cable loss (dB)

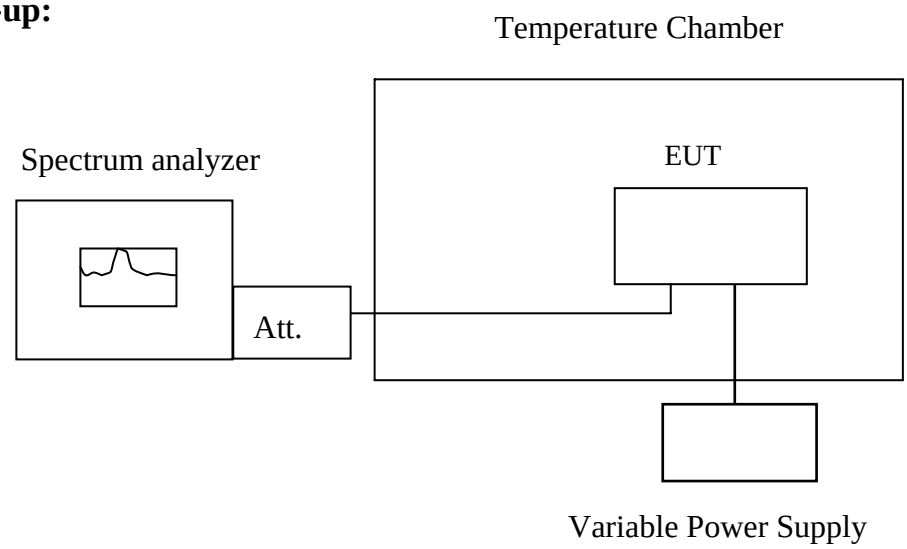
10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

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^{o}C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30^{o}C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10^{o}C increased per stage until the highest temperature of +50^{o}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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

10.5 Measurement Result

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	1879.999976	-2.00	4700
3.7	-20	1879.999974	0.00	4700
3.7	-10	1879.999979	-5.00	4700
3.7	0	1879.999976	-2.00	4700
3.7	10	1879.999977	-3.00	4700
3.7	20	1879.999974	0.00	4700
3.7	30	1879.999961	13.00	4700
3.7	40	1879.999967	7.00	4700
3.7	50	1879.999971	3.00	4700

Note: The battery is rated 3.7V dc.

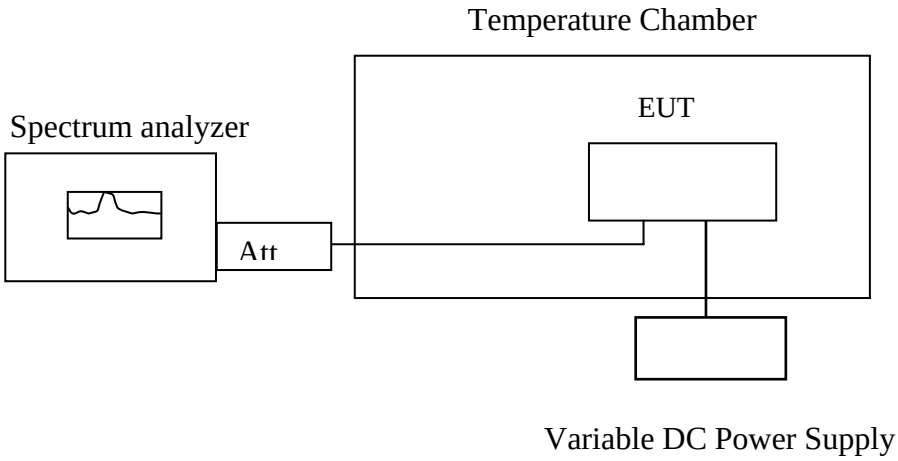
11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2006	06/29/2007
Power Sensor	Anritsu	MA2490A	31431	06/28/2006	06/29/2007
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2006	06/29/2007
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2006	11/12/2007
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2006	10/06/2007
Attenuator	Mini-Circult	BW-S6W5	N/A	10/07/2006	10/06/2007
Splitter	Mini-Circult	ZFSC-2-10G	N/A	10/07/2006	10/06/2007
Signal Generator	R&S	SMR40	100210	11/09/2006	11/10/2007
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2007	01/05/2008

11.5 Measurement Result

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)		
3.70	25	1879.999963	0.00	4700
3.60	25	1879.999967	-4.00	4700
3.50	25	1879.999964	-1.00	4700
3.40 (Endpoint)	25	1879.999969	-6.00	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 C63.4-2003.
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:

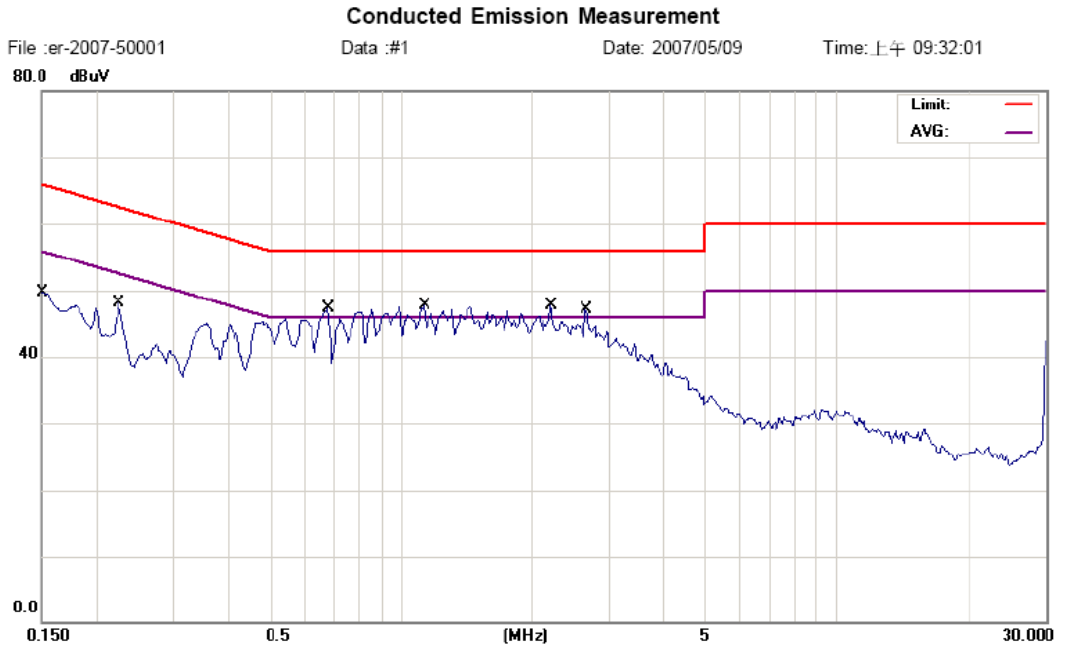
Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMC Analyzer	HP	8594EM	3624A00203	09/02/2006	09/03/2007
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2006	06/10/2007
Transient Limiter	HP	11947A	3107A02062	09/02/2006	09/03/2007
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2006	12/23/2007

12.5 Measurement Result

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

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK			Test Date:	May 09, 2007
Temperature:	25 ℃	Humidity:	62%	Test By:	Jazz



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 LINK

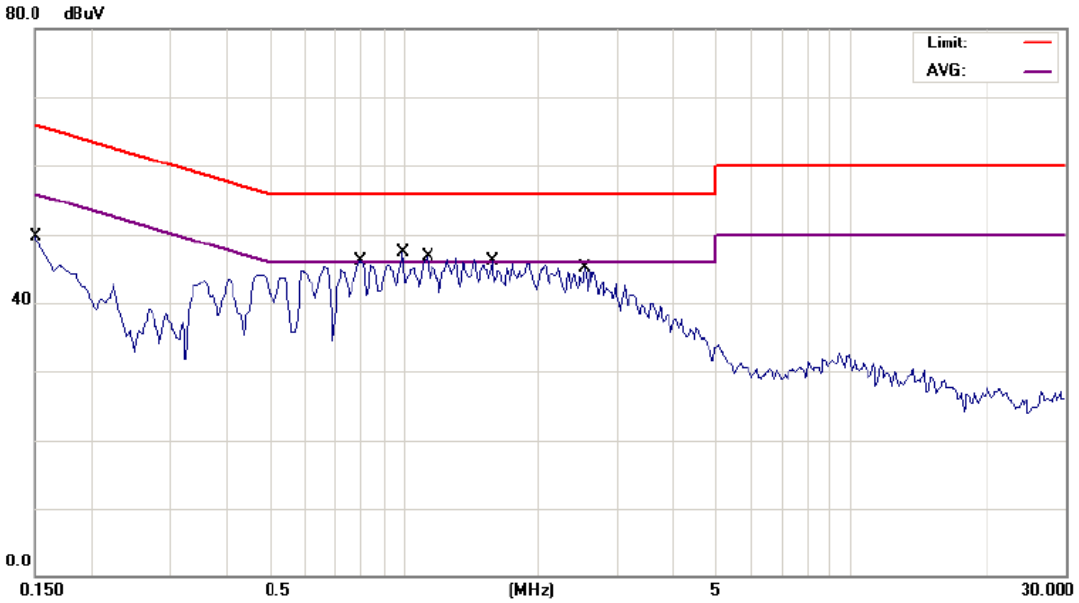
Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	38.00	0.45	38.45	66.00	-27.55	QP	
2		0.1500	30.80	0.45	31.25	56.00	-24.75	AVG	
3		0.2250	40.00	0.53	40.53	62.63	-22.10	QP	
4		0.2250	32.20	0.53	32.73	52.63	-19.90	AVG	
5		0.6800	42.10	0.71	42.81	56.00	-13.19	QP	
6		0.6800	31.00	0.71	31.71	46.00	-14.29	AVG	
7	*	1.1300	43.40	0.81	44.21	56.00	-11.79	QP	
8		1.1300	28.20	0.81	29.01	46.00	-16.99	AVG	
9		2.2100	41.20	0.85	42.05	56.00	-13.95	QP	
10		2.2100	27.00	0.85	27.85	46.00	-18.15	AVG	
11		2.6600	40.00	0.88	40.88	56.00	-15.12	QP	
12		2.6600	25.50	0.88	26.38	46.00	-19.62	AVG	

Conducted Emission Measurement

File :er-2007-50001 Data :#2 Date: 2007/05/09 Time: 上午 09:38:42



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 LINK

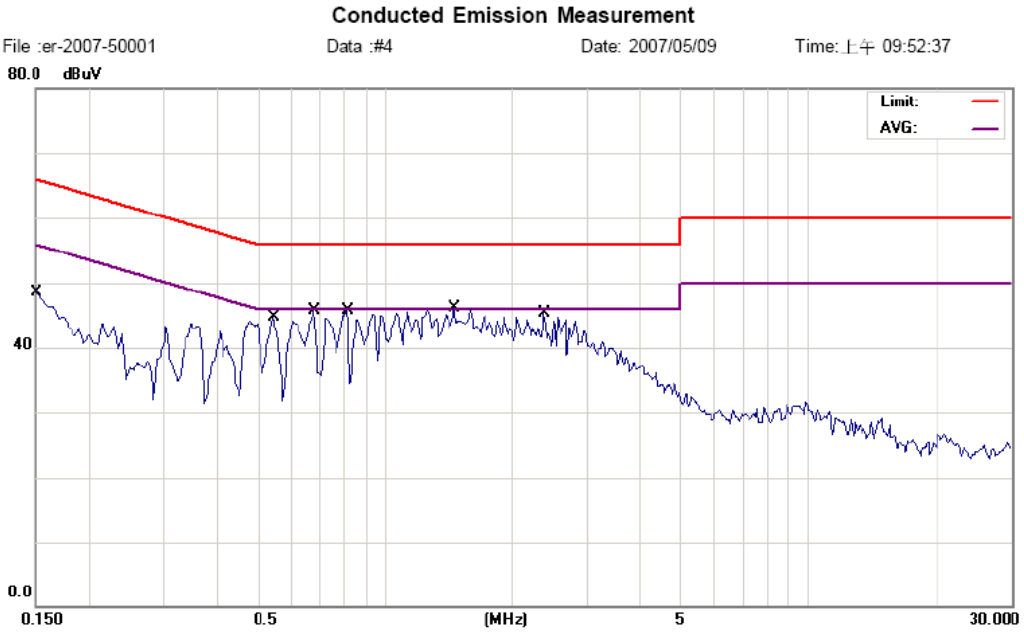
Phase: *N*
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	36.50	0.45	36.95	66.00	-29.05	QP	
2		0.1500	28.00	0.45	28.45	56.00	-27.55	AVG	
3		0.8000	42.00	0.75	42.75	56.00	-13.25	QP	
4		0.8000	27.00	0.75	27.75	46.00	-18.25	AVG	
5		0.9950	43.00	0.81	43.81	56.00	-12.19	QP	
6		0.9950	28.00	0.81	28.81	46.00	-17.19	AVG	
7	*	1.1300	43.40	0.83	44.23	56.00	-11.77	QP	
8		1.1300	27.00	0.83	27.83	46.00	-18.17	AVG	
9		1.5800	42.30	0.89	43.19	56.00	-12.81	QP	
10		1.5800	25.10	0.89	25.99	46.00	-20.01	AVG	
11		2.5400	40.60	0.98	41.58	56.00	-14.42	QP	
12		2.5400	27.10	0.98	28.08	46.00	-17.92	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 IDLE			Test Date:	May 09, 2007
Temperature:	25 ℃	Humidity:	62%	Test By:	Jazz



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 IDLE

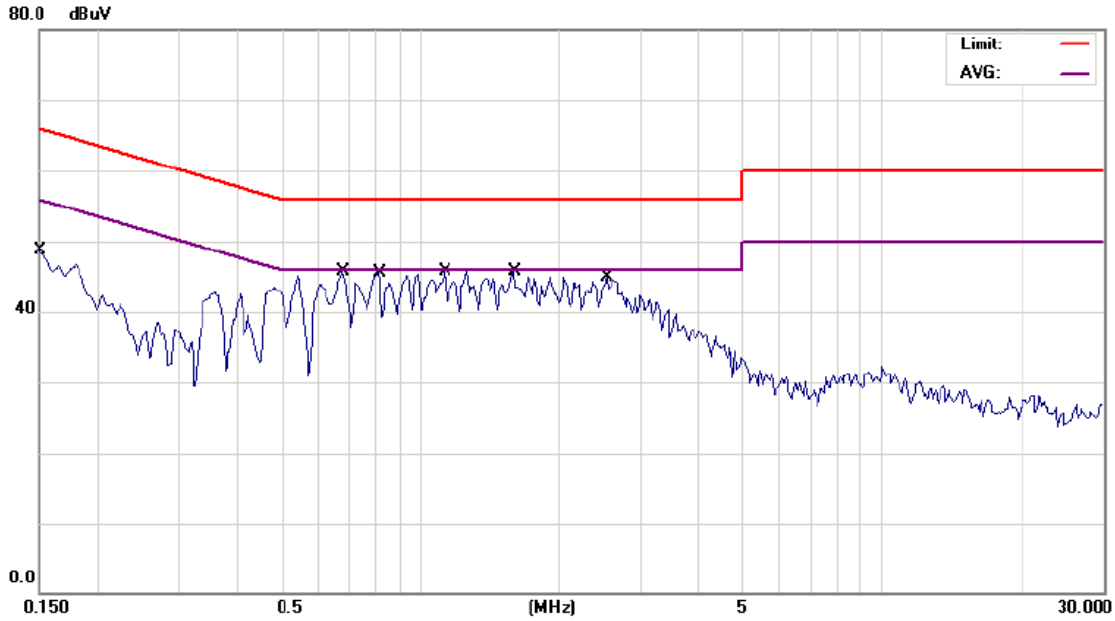
Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	45.70	0.45	46.15	66.00	-19.85	QP	
2		0.1500	28.70	0.45	29.15	56.00	-26.85	AVG	
3		0.5450	42.60	0.67	43.27	56.00	-12.73	QP	
4		0.5450	27.10	0.67	27.77	46.00	-18.23	AVG	
5		0.6800	42.50	0.71	43.21	56.00	-12.79	QP	
6		0.6800	30.50	0.71	31.21	46.00	-14.79	AVG	
7		0.8150	42.00	0.75	42.75	56.00	-13.25	QP	
8		0.8150	29.00	0.75	29.75	46.00	-16.25	AVG	
9	*	1.4600	43.20	0.82	44.02	56.00	-11.98	QP	
10		1.4600	28.20	0.82	29.02	46.00	-16.98	AVG	
11		2.3750	41.50	0.87	42.37	56.00	-13.63	QP	
12		2.3750	25.00	0.87	25.87	46.00	-20.13	AVG	

Conducted Emission Measurement

File :er-2007-50001 Data :#3 Date: 2007/05/09 Time:上午 09:45:58

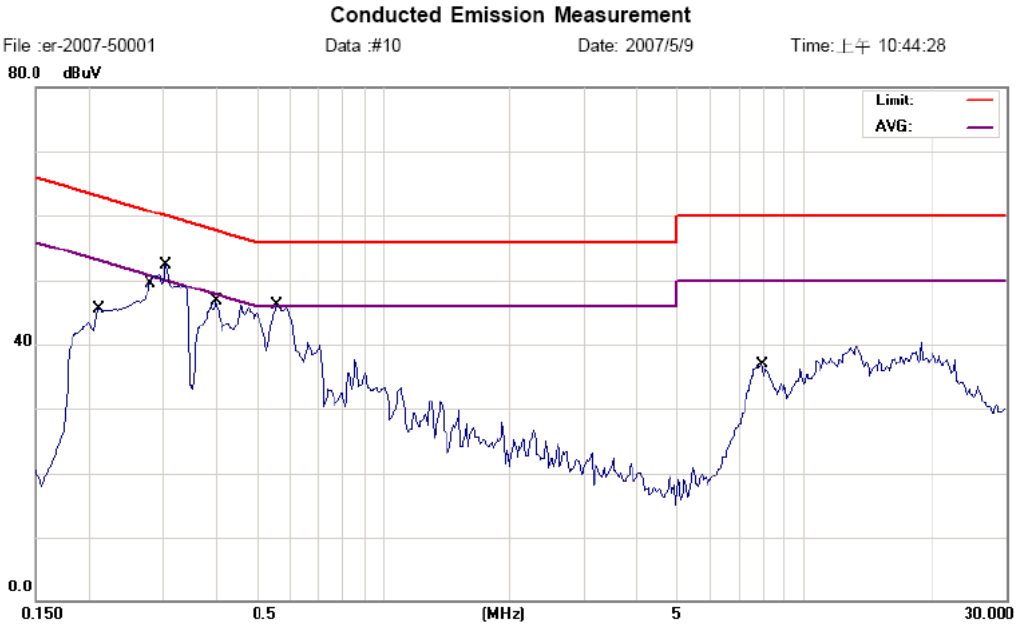


Site SGS CONDUCTED #1	Phase: N	Temperature: 25 ℃
Limit: CISPR22 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 62 %
EUT: DX2007S1	Distance:	Air Pressure: hpa
M/N: DX2007S1		
Note: GSM1900 IDLE		

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	36.30	0.45	36.75	66.00	-29.25	QP	
2		0.1500	25.50	0.45	25.95	56.00	-30.05	AVG	
3		0.6800	43.00	0.71	43.71	56.00	-12.29	QP	
4		0.6800	29.50	0.71	30.21	46.00	-15.79	AVG	
5		0.8150	42.50	0.75	43.25	56.00	-12.75	QP	
6		0.8150	28.60	0.75	29.35	46.00	-16.65	AVG	
7		1.1300	42.30	0.83	43.13	56.00	-12.87	QP	
8		1.1300	25.70	0.83	26.53	46.00	-19.47	AVG	
9	*	1.5950	43.50	0.89	44.39	56.00	-11.61	QP	
10		1.5950	25.50	0.89	26.39	46.00	-19.61	AVG	
11		2.5400	38.50	0.98	39.48	56.00	-16.52	QP	
12		2.5400	25.70	0.98	26.68	46.00	-19.32	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK + CABLE LINK			Test Date:	May 09, 2007
Temperature:	25 ℃	Humidity:	62%	Test By:	Jazz



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 LIN K+CABLE LINK

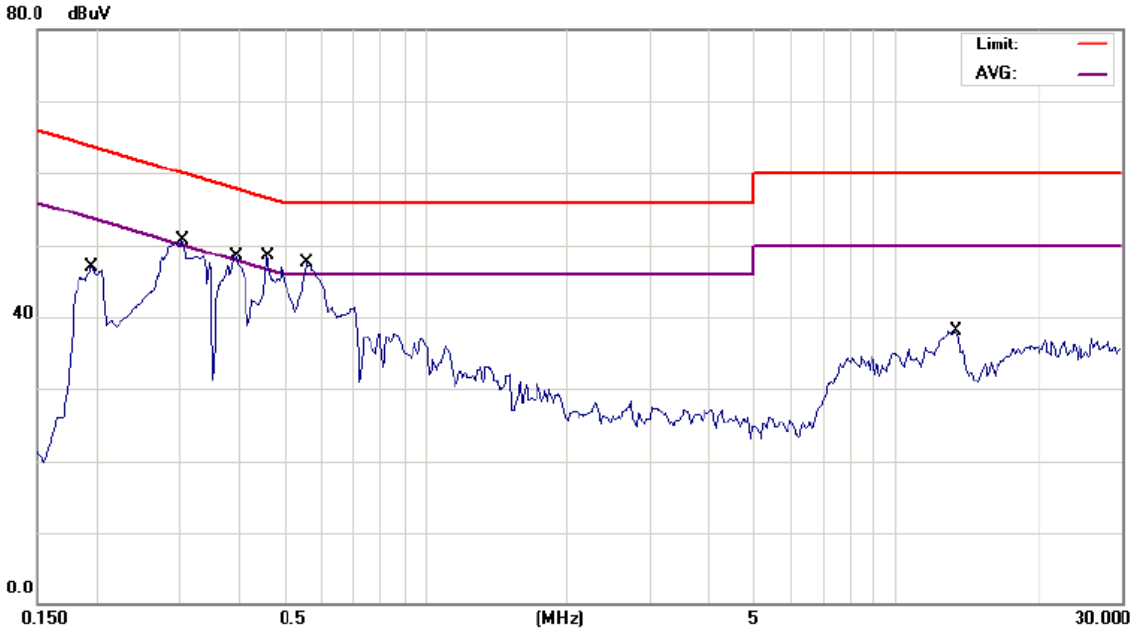
Phase: L1
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2100	42.30	0.53	42.83	63.21	-20.38	QP	
2		0.2100	25.60	0.53	26.13	53.21	-27.08	AVG	
3		0.2759	44.50	0.56	45.06	60.94	-15.88	QP	
4		0.2759	32.50	0.56	33.06	50.94	-17.88	AVG	
5		0.3050	45.70	0.57	46.27	60.11	-13.84	QP	
6		0.3050	34.00	0.57	34.57	50.11	-15.54	AVG	
7		0.4000	41.50	0.62	42.12	57.85	-15.73	QP	
8		0.4000	33.00	0.62	33.62	47.85	-14.23	AVG	
9	*	0.5600	41.50	0.67	42.17	56.00	-13.83	QP	
10		0.5600	29.50	0.67	30.17	46.00	-15.83	AVG	
11		7.9600	30.50	1.09	31.59	60.00	-28.41	QP	
12		7.9600	25.80	1.09	26.89	50.00	-23.11	AVG	

Conducted Emission Measurement

File :er-2007-50001 Data :#11 Date: 2007/5/9 Time:上午 10:50:14



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 LIN K+CABLE LINK

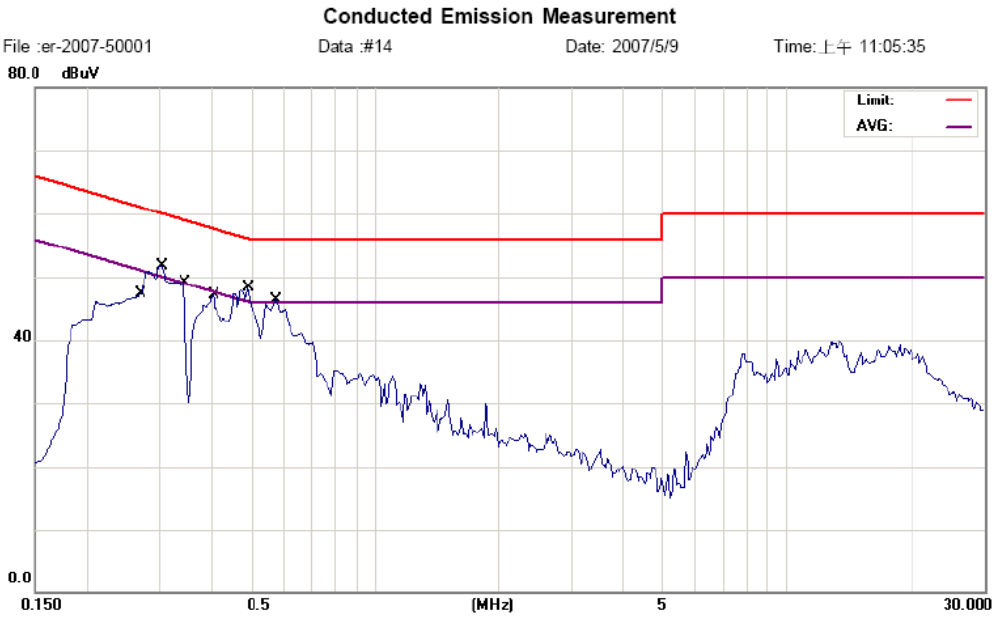
Phase: N
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1950	44.00	0.51	44.51	63.82	-19.31	QP	
2		0.1950	38.00	0.51	38.51	53.82	-15.31	AVG	
3		0.3050	45.10	0.57	45.67	60.11	-14.44	QP	
4		0.3050	35.00	0.57	35.57	50.11	-14.54	AVG	
5		0.3950	43.20	0.62	43.82	57.96	-14.14	QP	
6		0.3950	34.50	0.62	35.12	47.96	-12.84	AVG	
7		0.4600	42.20	0.64	42.84	56.69	-13.85	QP	
8		0.4600	30.90	0.64	31.54	46.69	-15.15	AVG	
9	*	0.5600	44.20	0.67	44.87	56.00	-11.13	QP	
10		0.5600	30.80	0.67	31.47	46.00	-14.53	AVG	
11		13.4400	30.80	1.26	32.06	60.00	-27.94	QP	
12		13.4400	25.40	1.26	26.66	50.00	-23.34	AVG	

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 IDLE + CABLE LINK			Test Date:	May 09, 2007
Temperature:	25 ℃	Humidity:	62%	Test By:	Jazz



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 IDLE+CABLE LINK

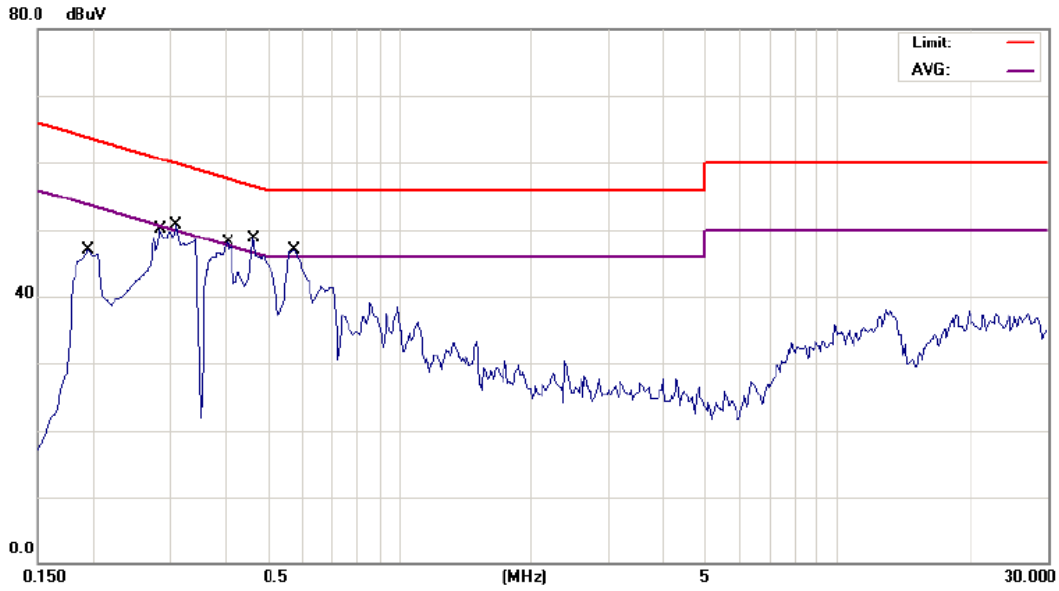
Phase: *L1*
Power: AC 120V/60Hz
Distance:

Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2672	45.40	0.55	45.95	61.20	-15.25	QP	
2		0.2672	34.50	0.55	35.05	51.20	-16.15	AVG	
3		0.3050	45.30	0.57	45.87	60.11	-14.24	QP	
4		0.3050	34.50	0.57	35.07	50.11	-15.04	AVG	
5		0.3450	46.40	0.59	46.99	59.08	-12.09	QP	
6		0.3450	30.40	0.59	30.99	49.08	-18.09	AVG	
7		0.4050	42.20	0.62	42.82	57.75	-14.93	QP	
8		0.4050	33.50	0.62	34.12	47.75	-13.63	AVG	
9		0.4900	43.50	0.65	44.15	56.17	-12.02	QP	
10		0.4900	33.40	0.65	34.05	46.17	-12.12	AVG	
11	*	0.5750	43.50	0.68	44.18	56.00	-11.82	QP	
12		0.5750	31.10	0.68	31.78	46.00	-14.22	AVG	

Conducted Emission Measurement

File :er-2007-50001 Data :#15 Date: 2007/5/9 Time:上午 11:18:30



Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: DX2007S1
M/N: DX2007S1
Note: GSM1900 IDLE+CABLE LINK

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

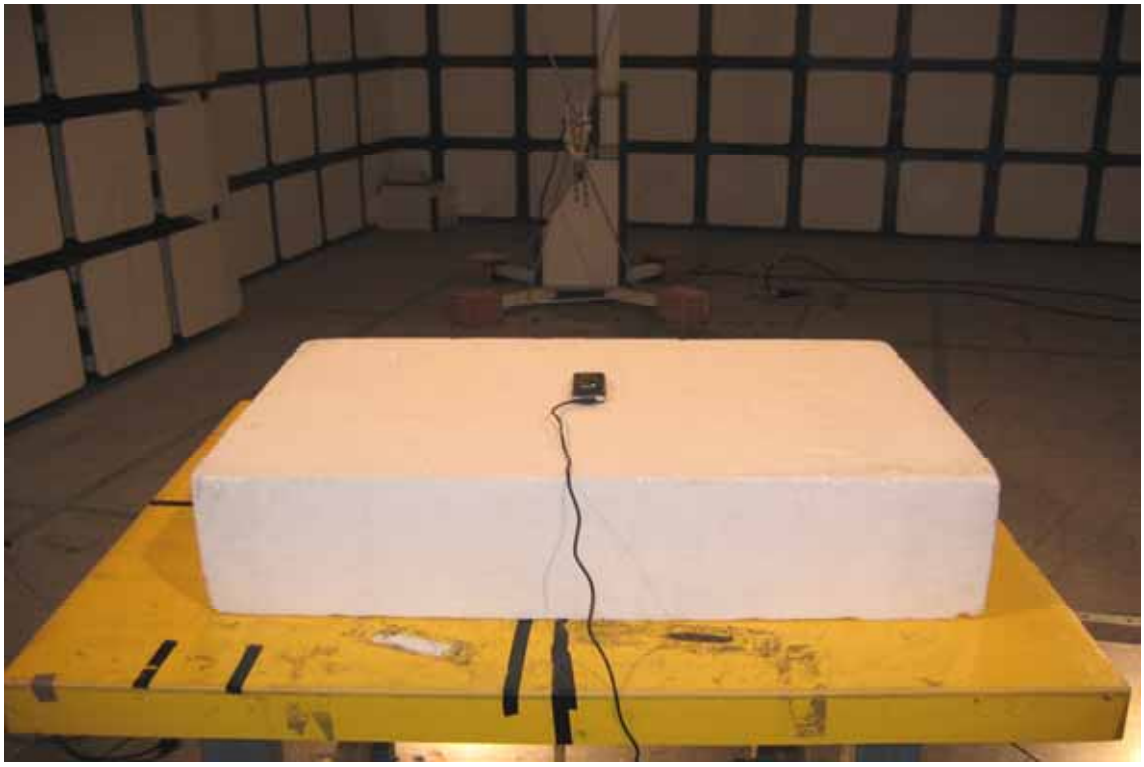
Temperature: 25 ℃
Humidity: 62 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1950	44.30	0.51	44.81	63.82	-19.01	QP	
2		0.1950	38.30	0.51	38.81	53.82	-15.01	AVG	
3		0.2850	44.00	0.56	44.56	60.67	-16.11	QP	
4		0.2850	34.50	0.56	35.06	50.67	-15.61	AVG	
5		0.3100	45.20	0.57	45.77	59.97	-14.20	QP	
6		0.3100	30.40	0.57	30.97	49.97	-19.00	AVG	
7		0.4050	44.70	0.62	45.32	57.75	-12.43	QP	
8		0.4050	34.90	0.62	35.52	47.75	-12.23	AVG	
9		0.4650	43.80	0.64	44.44	56.60	-12.16	QP	
10		0.4650	31.00	0.64	31.64	46.60	-14.96	AVG	
11	*	0.5750	44.60	0.68	45.28	56.00	-10.72	QP	
12		0.5750	32.20	0.68	32.88	46.00	-13.12	AVG	

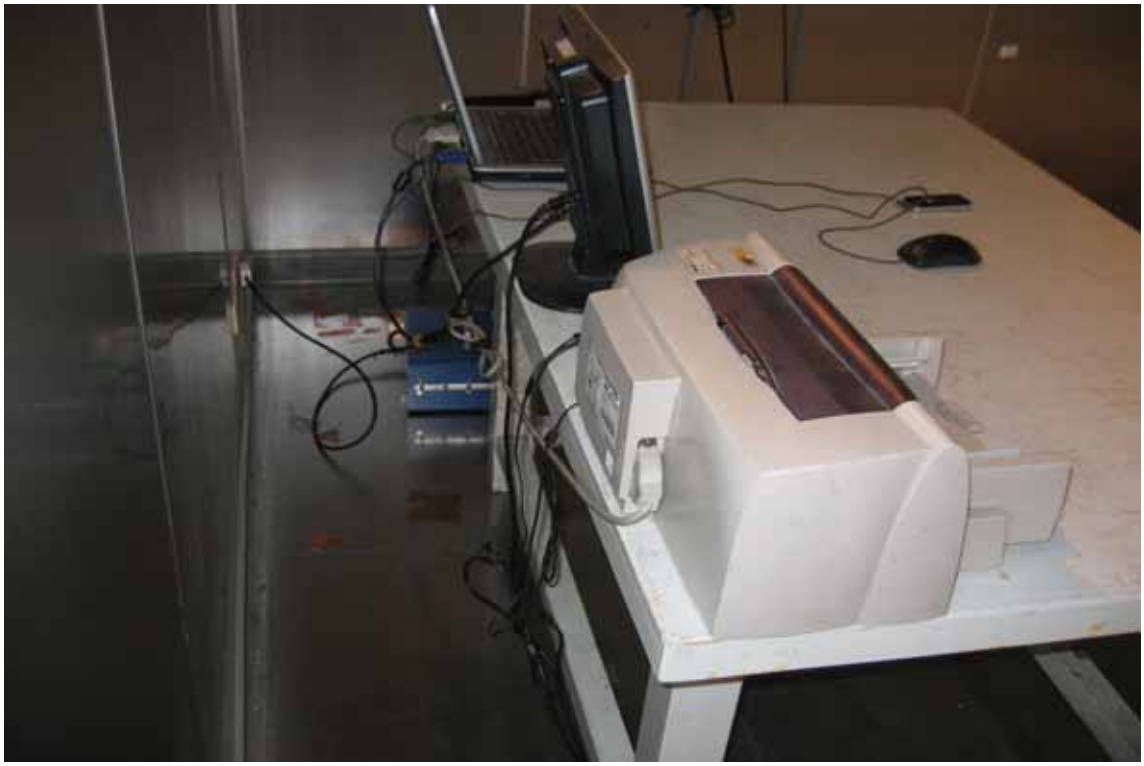
APPENDIX 1

PHOTOGRAPHS OF SET UP

Radiated Emission Set up Photos



Conducted Emission Set up Photo



APPENDIX 2

PHOTOGRAPHS OF EUT

All View of EUT

Adaptor

Battery – 1

Battery – 2

Front View of EUT

Back View of EUT

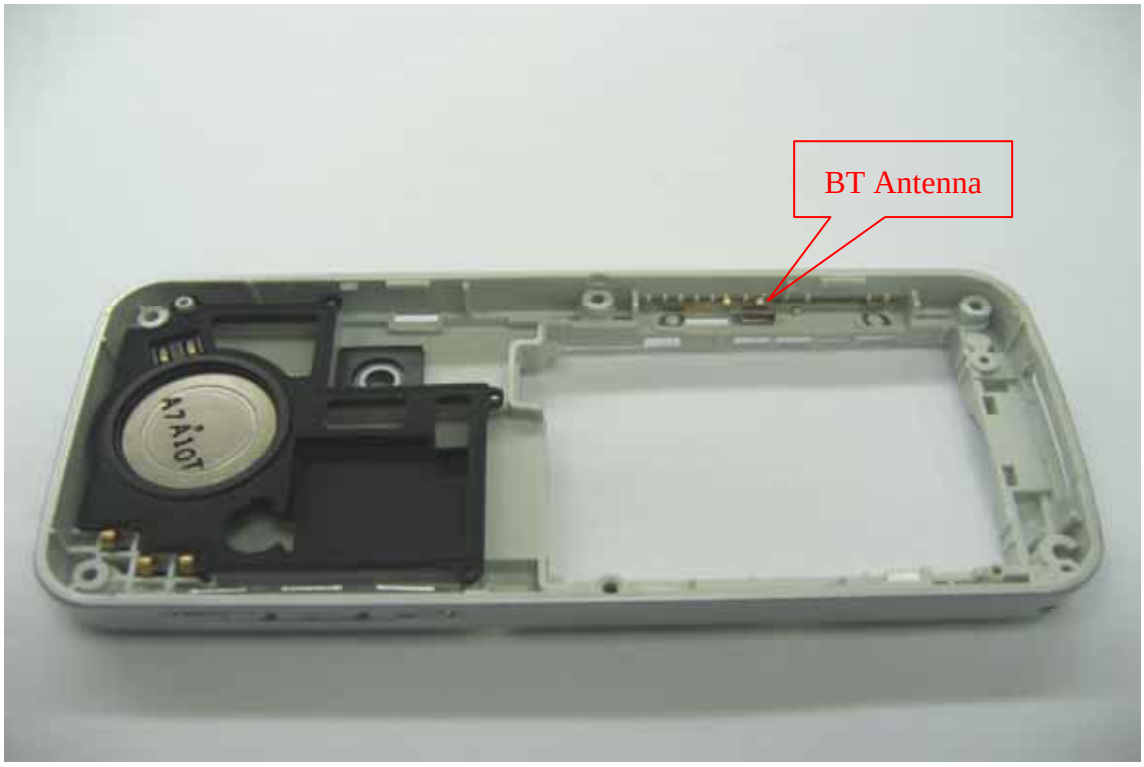
Side View of EUT – 1

Side View of EUT – 2

Open View of EUT

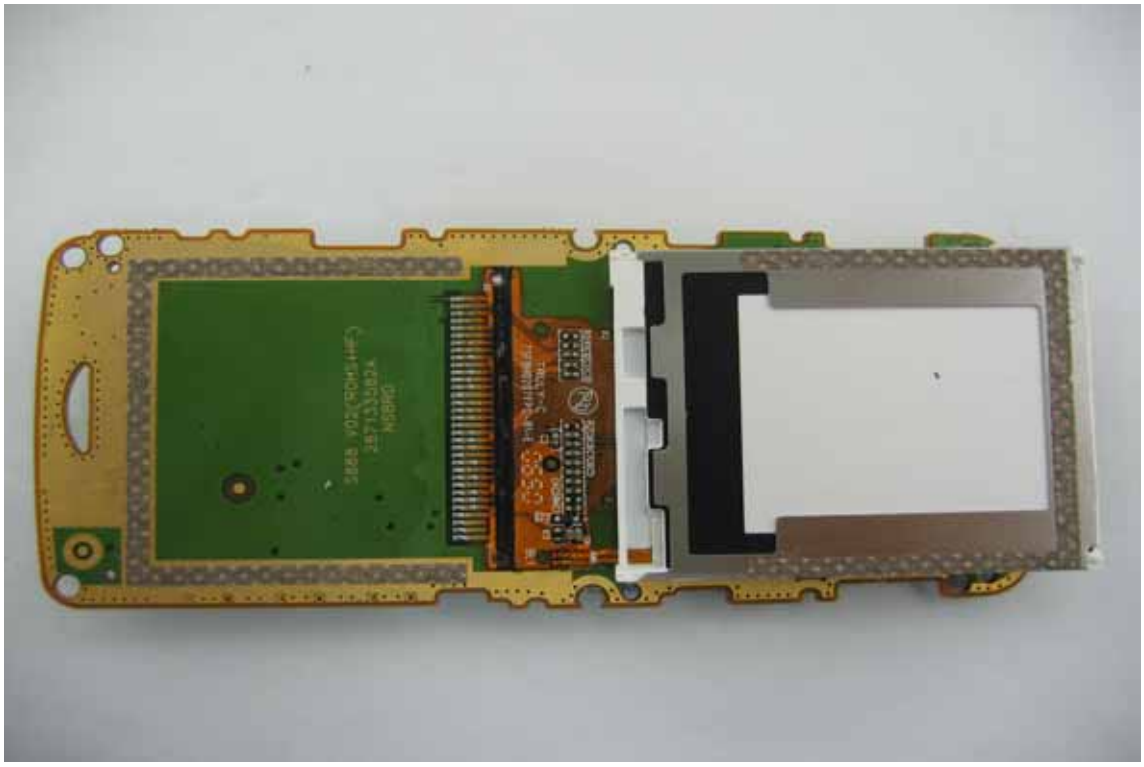
Internal View of EUT – 1

Internal View of EUT – 2



Internal View of EUT – 3

Internal View of EUT – 4



Internal View of EUT – 5