



TEST REPORT

No.: HM110671

FCC PART 15 SUBPART C CERTIFICATION REPORT

FOR LOW POWER TRANSMITTER

TEST REPORT No.: HM110671

Wireless Link for POS/ECR
SPR-I
Chung Nam Electronics Co., Ltd.
Q72SPR-I

[illegible]

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The submitted product was deemed to have COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

K C Lee
for Chief Executive

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1.1 Test Laboratory

1.2 Applicant Details

HKSTC Code Number for Applicant

CHN013

CHUNG NAM ELECTRONICS CO., LTD.
No. 38 Luogang Road, LuoGang Industrial Zone,
Buji, Shen Zhen, China

[illegible]

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Product:	Wireless Link for POS/ECR
Manufacturer:	Chung Nam Electronics Co., Ltd.
Brand Name:	SPRINTER
Model Number:	SPR-I
Input Voltage:	The product draws power from the signal port of the console

The Equipment Under Test (EUT) is an Chung Nam Electronics Co., Ltd., Wireless Link for POS/ECR. The transmitter is a 2 button transmitter. The EUT continues to transmit while button is being pressed, Modulation by IC. and tape is pulse modulation.

2003-05-26

1 Sample per model

2003-06-02 to 2003-06-12

China

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2.1 Investigations Requested

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4:2000 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.249	ANSI C63.4:2000	N/A	☒	☐	☐
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.109	ANSI C63.4:2000	Class B	☒	☐	☐
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2000	Class B	☒	☐	☐

Note: N/A - Not Applicable

CONDITIONS OF ISSUANCE OF TEST REPORTS

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香港標準及檢定中心 Hong Kong Standards and Testing Centre

Date: 2003-07-14

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

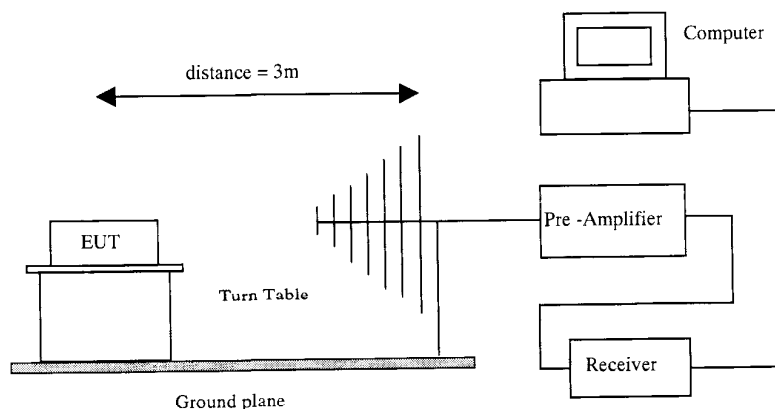
Test Requirement:	FCC 47CFR 15.249
Test Method:	ANSI C63.4:2000
Test Date:	2003-06-12
Mode of Operation:	On mode

Test Method:

The sample was placed 0.8m above the ground plane on the OATS *. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigate all operating modes, rotated about all 3 axis (X, Y & Z) to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

*: OATS [Open Area Test Site] located at HKSTC with a metal ground plane on filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 90657.

Test Setup:



Conditions of Issuance of Test Reports

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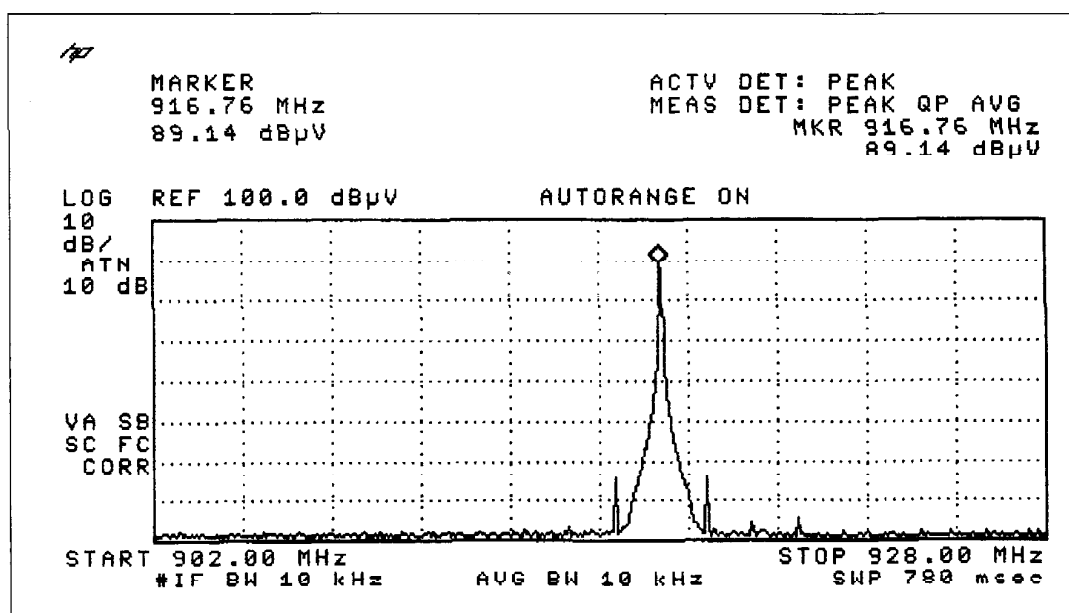


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Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Millivolts/meter]	Field Strength of Fundamental Emission [microvolts/meter]
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-22500	250	2500

Results: KP1



Field Strength of Fundamental Emissions						
Quasi-Peak						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	Antenna Polarity
916.70	59.6	29.8	89.4	29512.1	50,000	Vertical

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MARKER
914.81 MHz
89.18 dBμV

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 914.81 MHz
89.18 dBμV

LOG REF 100.0 dBμV AUTORANGE ON

10
dB/
ATTN
10 dB

VA SB
SC FC
CORR

START 902.00 MHz STOP 928.00 MHz
#IF BW 10 kHz AVG BW 10 kHz SWP 700 msec

Field Strength of Fundamental Emissions Quasi-Peak						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	Antenna Polarity
914.80	58.8	29.8	88.6	26915.3	50,000	Vortical

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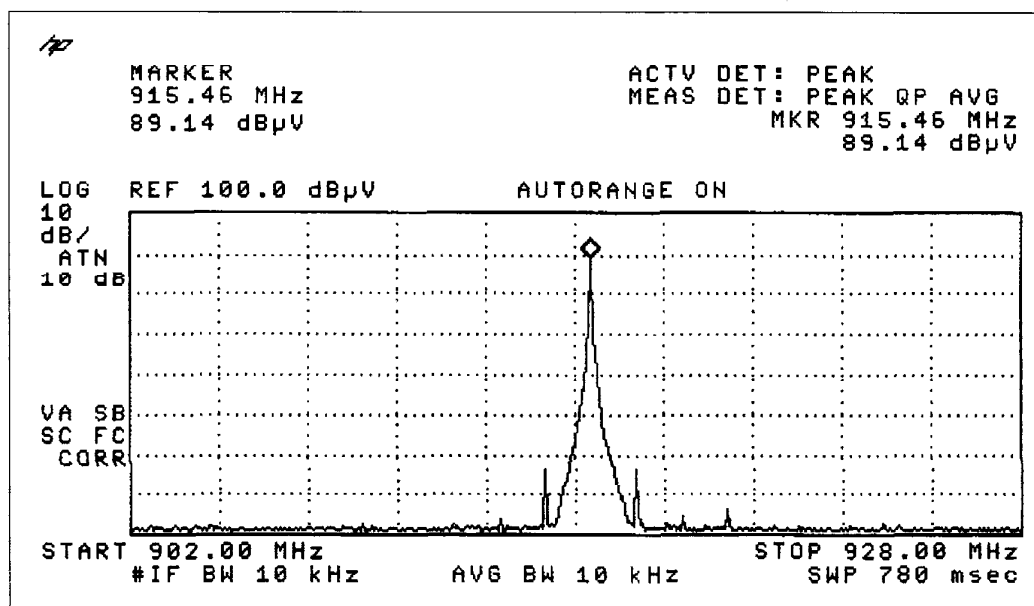


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Results: KP3



Field Strength of Fundamental Emissions						
Quasi-Peak						
Frequency	Measured Level @3m	Correction Factor	Field Strength	Field Strength	Limit @3m	Antenna Polarity
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m	
915.46	57.1	29.8	86.9	22130.9	50.000	Vertical

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17
MARKER          ACTV DET: PEAK
916.11 MHz     MEAS DET: PEAK QP AVG
89.55 dBµV     MKR 916.11 MHz
               89.55 dBµV

LOG REF 100.0 dBµV      AUTORANGE ON
10
dB/
ATN 10 dB
VA SB
SC FC
CORR

START 902.00 MHz      STOP 928.00 MHz
#IF BW 10 kHz        AVG BW 10 kHz      SWP 780 msec

```

Field Strength of Fundamental Emissions Quasi-Peak						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	Antenna Polarity
916.10	56.6	29.8	86.4	20893.0	50,000	Vertical

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Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
30-88	100
88-216	150
216-960	200
Above960	500

Results:

Radiated Emissions					
Quasi-Peak					
Emission Frequency MHz	Antenna Polarity	Level .@3m dB μ V/m	Limit .@3m dB μ V/m	Level @3m .@3m μ V/m	Limit .@3m μ V/m
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Calculated measurement uncertainty	=	30MHz to 300MHz	±3.7dB
		300MHz to 1GHz	+3.0dB / -2.7dB

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Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.4:2000
Test Date:	2003-06-02
Mode of Operation:	On mode

The test was performed in accordance with ANSI C63.4:2000, with the following: an initial measurement was performed in peak and average detection mode on the live line. Any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Diagram illustrating a cable connection setup. A table with a height of 0.8m holds a box labeled "EUT". A cable, labeled "Cable = 0.8m", runs from the EUT to a box labeled "LISN". From the LISN, a cable runs to a box labeled "AE", and another cable runs from the LISN to a box labeled "Receiver".

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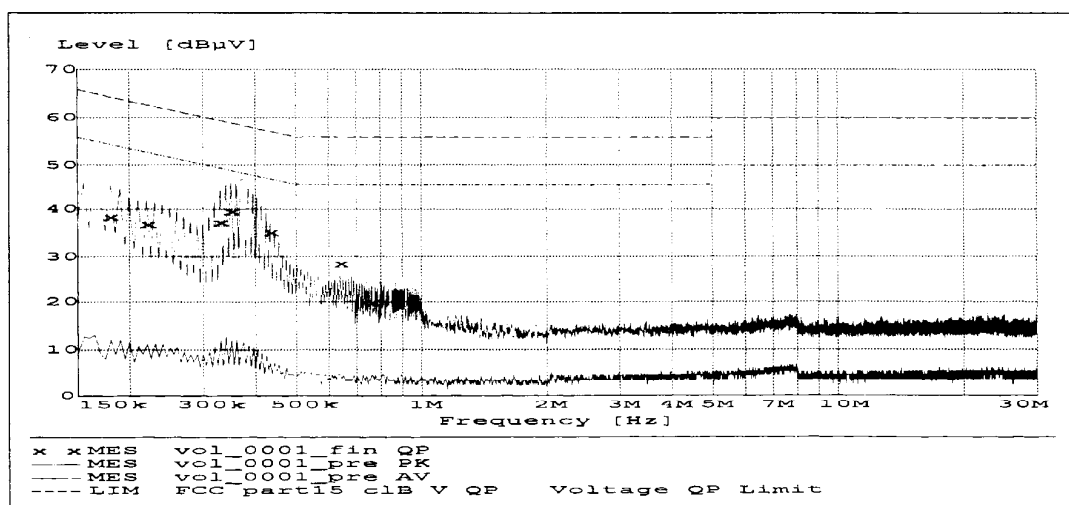
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: On Mode (KP1) TX



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Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Live	0.33	37.1	60.0	_*_	_*_
Neutral	0.180	38.3	65.0	_*_	_*_
Neutral	0.220	36.8	63.0	_*_	_*_
Neutral	0.350	39.5	59.0	_*_	_*_
Neutral	0.435	35.1	57.0	_*_	_*_
Neutral	0.640	28.5	56.0	_*_	_*_
Neutral	0.760	19.9	56.0	_*_	_*_

-*- Emission greater than 30dB below limit line.

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Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

Legend:

- x x MES vol_0001_fin QP
- MES vol_0001_pre PK
- MES vol_0001_pre AV
- LIM FCC part15 clb V QP Voltage QP Limit

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Results: On Mode (KP2) TX

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.330	37.2	60.0	-*	-*
Neutral	0.175	38.7	65.0	-*	-*
Neutral	0.225	37.0	63.0	-*	-*
Neutral	0.350	39.7	59.0	-*	-*
Neutral	0.435	34.9	57.0	-*	-*
Neutral	0.660	26.6	56.0	-*	-*
Neutral	0.880	17.9	56.0	-*	-*

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

-*- Emission greater than 30dB below limit line.

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Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

x x MES vol_0001_fin QP
 — MES vol_0001_pre PK
 — MES vol_0001_pre AV
 --- LIM FCC part15 c1B V QP Voltage QP Limit

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Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Live	0.325	36.4	60.0	_*	_*
Neutral	0.170	39.2	65.0	_*	_*
Neutral	0.235	37.4	62.0	_*	_*
Neutral	0.355	40.1	59.0	_*	_*
Neutral	0.440	34.5	57.0	_*	_*
Neutral	0.645	28.1	56.0	_*	_*
Neutral	0.865	18.2	56.0	_*	_*

-*- Emission greater than 30dB below limit line.

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Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

x x MES vol_00001_fin QP
 --- MES vol_00001_ptrs PK
 --- MES vol_00001_ptrs AV
 ---- LIM FCC part15 c1B V QP Voltage QP Limit

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Results: On Mode (KP4) TX

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.330	37.7	60.0	-*	-*
Neutral	0.175	39.3	65.0	-*	-*
Neutral	0.215	37.6	63.0	-*	-*
Neutral	0.350	39.9	59.0	-*	-*
Neutral	0.440	34.4	57.0	-*	-*
Neutral	0.645	28.1	56.0	-*	-*
Neutral	0.870	18.1	56.0	-*	-*

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

-*- Emission greater than 30dB below limit line.

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Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

— MES vol_0001_pre PK
 — MES vol_0001_pre AV
 - - - LIM FCC part15 c1B V QP Voltage QP Limit
 - - - LIM FCC part15 c1B V AV Voltage AV Limit

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

-*- Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports

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Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

— MES vol_0001_pre PK
 — MES vol_0001_pre AV
 - - - LIM FCC part15 cl8 V QP Voltage QP Limit
 - - - LIM FCC part15 cl8 V AV Voltage AV Limit

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBµV	Limit dBµV	Level dBµV	Limit dBµV
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

-*- Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports

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香港標準及檢定中心
Hong Kong Standards and Testing Centre

Date: 2003-07-14

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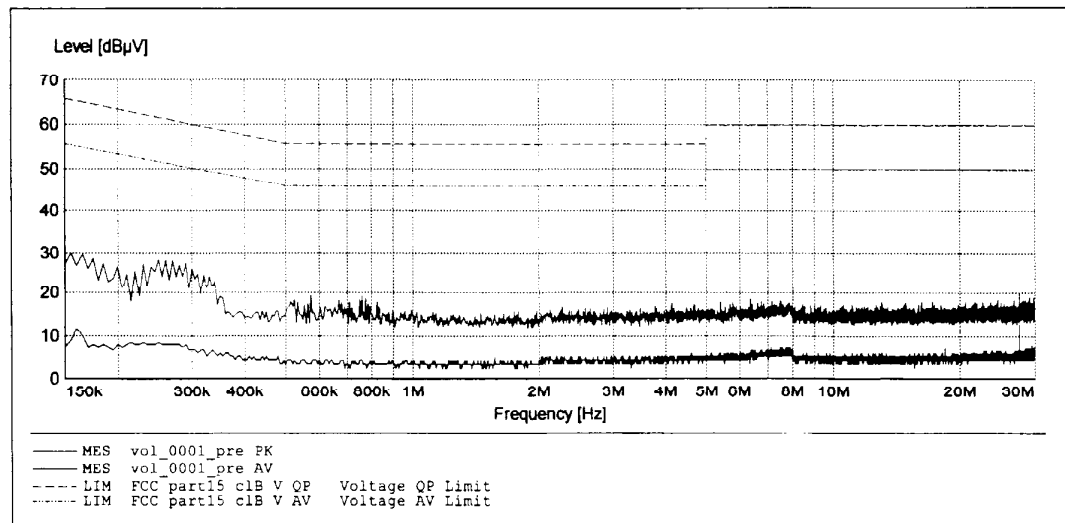
Limit for Conducted Emissions (FCC 47 CFR 15.107):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Results: RX Mode (Printer ID 3)



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$
 *- Emission greater than 30dB below limit line.

Conditions of Issuance of Test Reports

The test reports are issued under the following conditions:

1. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

2. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

3. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

4. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

5. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

6. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

7. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

8. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

9. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

10. The test reports are issued only for the test results obtained from the test conducted in accordance with the test method specified in the test report.

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TEST REPORT

No.: HM110671

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

Legend:

- MES vol_0001_pre PK
- MES vol_0001_pre AV
- LIM FCC part15 c1B V QP Voltage QP Limit
- LIM FCC part15 c1B V AV Voltage AV Limit

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
NO EMISSION DETECTED WITHIN 20dB OF THE FCC LIMITS					

Calculated measurement uncertainty = $\pm 2.3\text{dB}$
 -* Emission greater than 30dB below limit line.

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TEST REPORT

No.: HM110671

Frequency Range [MHz]	Quasi-Peak Limits [dD μ V]	Average [dD μ V]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dB μ V]

Frequency [Hz]

x x x MES vol_0001_fin QP
 + + + MES vol_0001_fin AV
 — MES vol_0001_pre PK
 — MES vol_0001_pre AV

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TEST REPORT

No.: HM110671

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.175	57.1	60.0	—	—
Live	0.200	42.7	60.0	—	—
Live	0.290	—	—	31.8	51.0
Live	0.350	—	—	28.8	49.0
Live	0.455	26.6	60.0	—	—
Live	2.720	14.0	60.0	—	—
Live	3.585	12.4	60.0	—	—
Live	5.440	—	—	14.9	50.0
Live	6.425	—	—	19.9	50.0
Live	8.800	—	—	11.3	50.0
Live	13.150	—	—	21.2	50.0
Live	13.265	27.3	60.0	—	—
Live	17.385	30.6	60.0	—	—
Live	17.560	—	—	24.7	50.0
Live	17.790	29.7	60.0	—	—
Live	17.850	—	—	23.4	50.0
Live	25.990	—	—	21.7	50.0
Live	26.000	27.2	60.0	—	—

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TEST REPORT

No.: HM110671

Results: PC On TX Mode

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Neutral	0.175	-*-	-*-	40.4	55.0
Neutral	0.230	-*-	-*-	33.2	52.0
Neutral	0.260	37.4	61.0	-*-	-*-
Neutral	0.350	37.9	59.0	-*-	-*-
Neutral	0.460	-*-	-*-	13.0	47.0
Neutral	0.635	21.3	56.0	-*-	-*-
Neutral	0.695	-*-	-*-	13.9	46.0
Neutral	0.805	17.9	56.0	-*-	-*-
Neutral	0.925	-*-	-*-	6.7	46.0
Neutral	1.215	13.1	56.0	5.1	46.0
Neutral	1.445	11.3	56.0	4.7	46.0
Neutral	1.735	10.5	56.0	-*-	-*-
Neutral	1.910	-*-	-*-	4.9	46.0
Neutral	2.430	-*-	-*-	5.6	46.0
Neutral	2.950	-*-	-*-	6.4	46.0
Neutral	3.645	-*-	-*-	7.5	46.0
Neutral	4.340	11.7	56.0	-*-	-*-
Neutral	4.860	12.7	56.0	-*-	-*-

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

-*- Emission greater than 30dB below limit line.

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TEST REPORT

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Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram labelled as (QP and AV).

Level [dBμV]

Frequency [Hz]

x x >MES vol_0001_fin QP
 + + +MES vol_0001_fin AV
 — MES vol_0001_pre PK
 MES vol_0001_pre AV

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No.: HM110671

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Live	0.170	59.6	65.0	-*-	-*-
Live	0.280	39.8	61.0	-*-	-*-
Live	0.450	28.5	57.0	-*-	-*-
Live	1.180	-*-	-*-	4.3	46.0
Live	1.915	-*-	-*-	5.7	46.0
Live	2.590	-*-	-*-	7.2	46.0
Live	2.760	15.3	56.0	-*-	-*-
Live	4.730	25.2	56.0	-*-	-*-
Live	5.750	-*-	-*-	13.4	50.0
Live	6.710	-*-	-*-	10.4	50.0
Live	13.500	-*-	-*-	25.2	50.0
Live	17.640	31.2	60.0	-*-	-*-
Live	17.660	-*-	-*-	25.6	50.0
Live	18.065	32.2	60.0	-*-	-*-
Live	18.140	-*-	-*-	26.2	50.0
Live	27.005	-*-	-*-	20.8	50.0
Live	27.500	25.4	60.0	-*-	-*-

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TEST REPORT

No.: HM110671

Results: PC On RX Mode

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Neutral	0.170	-*	-*	47.9	55
Neutral	0.225	48.1	63.0	35.0	53.0
Neutral	0.280	-*	-*	24.0	51.0
Neutral	0.395	33.0	58.0	19.4	48.0
Neutral	0.450	-*	-*	12.4	47.0
Neutral	0.565	23.7	56.0	-*	-*
Neutral	0.675	-*	-*	5.6	46.0
Neutral	0.830	18.4	56.0	-*	-*
Neutral	0.900	-*	-*	4.5	46.0
Neutral	1.125	14.3	56.0	-*	-*
Neutral	1.405	-*	-*	4.3	46.0
Neutral	1.410	11.7	56.0	-*	-*
Neutral	1.855	10.5	56.0	-*	-*
Neutral	2.815	-*	-*	17.2	46.0
Neutral	3.490	18.8	56.0	-*	-*
Neutral	3.605	-*	-*	15.2	46.0
Neutral	4.000	29.5	56.0	-*	-*
Neutral	9.310	-*	-*	9.2	50.0
Neutral	13.490	27.2	60.0	-*	-*

Remarks:

Calculated measurement uncertainty = $\pm 2.3\text{dB}$

-*- Emission greater than 30dB below limit line.

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TEST REPORT

No.: HM110671

Test Equipment Audit

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	14/03/03
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	14/03/03
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	14/03/03
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	14/03/03
EM011	ATTENUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	14/03/03
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	14/03/03
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	CM
EM020	HORN ANTENNA	EMCO	3115	4032	19/07/00
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	04/08/00
EM072	SIGNAL GENERATOR	HEWLETT PACKARD	8640B	1948A11892	N/A
EM083	HKSTC OPEN AREA TEST SITE	HKSTC	N/A	N/A	08/11/02
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	18/12/01
EM145	EMI TEST RECEIVER	R & S	ESG3 30	830245/021	22/07/02
EM194	BICONILOG ANTENNA	EMCO	3142B	1795	14/05/02
EM195	ANTENNA POSITIONING MAST	EMCO	2075	2368	N/A
EM196	MULTI-DEVICE CONTROLLER	EMCO	2090	1662	N/A

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM078	VARIAC	SHANGHAI VOLTAGE	TDGC-3/0.5	N/A	CM
EM081	SMALL SCREENED ROOM	MIKO INST HK	N/A	N/A	18/10/02
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	01/10/02
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	CM
EM142	PULSES LIMITER	R & S	ESH3Z2	357.8810.52	03/07/02
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	28/11/01
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057-99A	18/10/02
EM197	LISN	EMCO	4825/2	1193	08/04/03

CM	Corrective Maintenance
N/A	Not Applicable or Not Available
TBD	To Be Determined

[illegible]

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Appendix B

Photographs of EUT

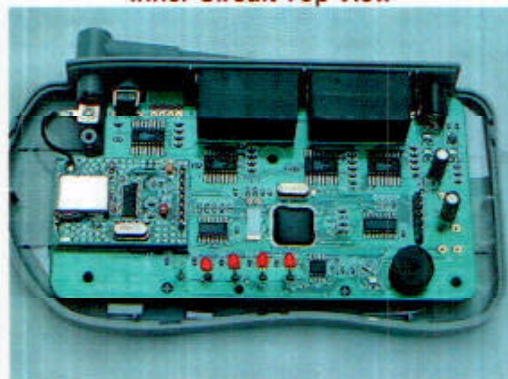
Front View of the product



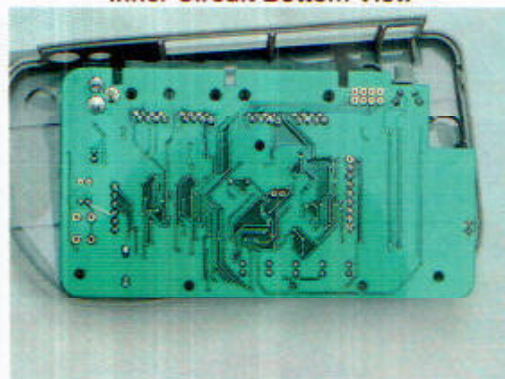
Rear View of the product



Inner Circuit Top View



Inner Circuit Bottom View



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Photographs of EUT

Measurement of Radiated Emission Test Set Up



Measurement of Conducted Emission Test Set Up



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