TEST REPORT

Page 1 of 27

No.: HM109541

Date: 2003-01-14

## FCC PART 15 SUBPART C CERTIFICATION REPORT

## FOR LOW POWER TRANSMITTER

TEST REPORT No.: HM109541

Equipment Under Test [EUT]: FM Audio Transmitter

Model Number: F8V367-APL
Applicant: Belkin Corporation
FCC ID: K7SF8V367APL

Date: 2003-01-14	TEST REPORT	Page 2 of 27

No.: HM109541

### **CONTENT:**

	Cover Content Conclusion	Page 1 of 27 Page 2-3 of 27 Page 4 of 27
<u>1.0</u>	General Details	
1.1	Test Laboratory	Page 5 of 27
1.2	Applicant Details Applicant HKSTC Code Number for Applicant Manufacturer	Page 5 of 27
1.3	Equipment Under Test [EUT] Description of EUT operation	Page 6 of 27
1.4	Date of Order	Page 6 of 27
1.5	Submitted Sample	Page 6 of 27
1.6	Test Duration	Page 6 of 27
1.7	Country of Origin	Page 6 of 27
1.8	Additional Information of EUT	Page 7 of 27
<u>2.0</u>	Technical Details	
2.1	Investigations Requested	Page 8 of 27
2.2	Test Standards and Results Summary	Page 8 of 27
<u>3.0</u>	Test Results	
3.1	Emission	Page 9-13 of 27
3.2	Bandwidth Measurement	Page 14-15 of 27

No.: HM109541

Appendix A

List of Measurement Equipment Page 16 of 27

**Appendix B** 

Photographs Page 19-27 of 27

## **TEST REPORT**

Page 4 of 27

No.: HM109541

#### **CONCLUSION**

The submitted product was deemed to have <u>COMPLIED</u> after modification by customer 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.

Verify by	Patrick Wong for Chief Executive

No.: HM109541

#### 1.0 General Details

### 1.1 Test Laboratory

The Hong Kong Standards and Testing Centre Ltd. EMC Laboratory 10 Dai Wang Street, Taipo Industrial Estate New Territories, Hong Kong

Telephone: 852 2666 1888 Fax: 852 2664 4353

# 1.2 Applicant Details Applicant

BELKIN CORPORATION 501 West Walnut Street, Comton, CA 90220-5221, USA

Telephone: 2401 6808 / 0769 652 7391 Fax: 2480 0926 / 0769 652 7392

#### **HKSTC Code Number for Applicant**

**BEC011** 

### Manufacturer

DONGGUAN REGALTRONIC ELECTRONIC CO., LTD. Sei Chung Ind. Est., Eastern River Rd., Central, Sei Pai, Dongguan, China

Telephone: 86 769 652 7391 Fax: 86 769 652 7392

No.: HM109541

# 1.3 Equipment Under Test [EUT] Description of Sample

Product: FM Audio Transmitter

Manufacturer: Dongguan Regaltronic Electronic Co., Ltd.

Brand Name: Belkin Model Number: F8V367-APL

Input Voltage: 3Vd.c ("AAA" size battery x 2)

#### 1.3.1 Description of EUT Operation

The Equipment Under Test(EUT) is an Belkin Corporation, FM Audio Transmitter. The transmitter is a 2 button transmitter. The EUT continues to transmit while button is being pressed. It is voice transmission, Modulation by audio output. and tape is frequency modulation.

#### 1.4 Date of Order

2002-12-30

### 1.5 Submitted Sample(s):

4 Samples per model

#### 1.6 Test Duration

2003-01-13

### 1.7 Country of Origin

China

Date: 2003-01-14	<b>TEST REPORT</b>	Page 7 of 27
No.: HM109541		

## 1.8 Additional Information of EUT

	Submitted	Not Available
User Manual		
Part List		
Circuit Diagram		
Printed Circuit Board [PCB] Layout		
Block diagram		
FCC ID Label	$\boxtimes$	

No.: HM109541

### 2.0 Technical Details

## 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								
	Resu	Its Summary						
Test Condition	Test Requirement	Test Method	Class /	Te	est Resul	t		
			Severit	Pass	Failed	N/A		
			У					
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.239	ANSI C63.4:2000	N/A					
Radiated Emissions, 30MHz to 1GHz	FCC 47CFR 15.209	ANSI C63.4:2000	Class B					
Conducted Emissions on AC, 0.45MHz to 30MHz	FCC 47CFR 15.207	ANSI C63.4:2000	Class B					

Note: N/A - Not Applicable

Page 9 of 27

Date: 2003-01-14 No.: HM109541

## 3.0 Test Results

#### 3.1 Emission

#### 3.1.1 Radiated Emissions

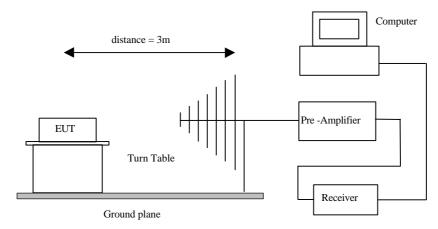
Test Requirement: FCC 47CFR 15.239
Test Method: ANSI C63.4:2000
Test Date: 2003-01-13
Mode of Operation: On mode

#### **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:**



## **TEST REPORT**

Page 10 of 27

No.: HM109541

#### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of	Peak Limits	Average Limits
Fundamental		_
[MHz]	[μV/m]	[μV/m]
88-108	2,500	250

#### Results:

Field Strength of Fundamental Emissions Peak Value							
			Peak value	;			
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m		
88.70	32.1	10.3	42.4	131.8	2,500	Horizontal	

Field Strength of Fundamental Emissions Average Value*							
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna	
Level @3m Factor Strength Strength Polarity						Polarity	
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m		
88.70	31.7	10.3	42.0	125.9	250	Horizontal	

#### Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth = 3MHz Video Bandwidth 1Hz

No.: HM109541

## Limited for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

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

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

#### Results:

	Radiated Emissions  Quasi-Peak								
Frequency	Me	asured	Correction		Field		Field	Limit @3m	Antenna
	Lev	el @3m	Factor	S	trength	S	trength		Polarity
MHz	dE	BμV/m	dBμV/m	d	BμV/m		μV/m	μV/m	
177.40	<	1.0	13.2	٧	14.2	٧	5.1	150	Vertical
266.10	<	1.0	9.8	٧	10.8	٧	3.5	150	Vertical
354.80	<	1.0	11.5	٧	12.5	٧	4.2	150	Vertical
443.50	<	1.0	15.9	٧	16.9	٧	7.0	200	Vertical
532.20	<	1.0	17.4	٧	18.4	٧	8.3	200	Vertical
620.90	<	1.0	17.2	٧	18.2	٧	8.1	200	Vertical
709.60	<	1.0	18.8	٧	19.8	٧	9.8	200	Vertical
798.30	<	1.0	19.7	٧	20.7	٧	10.8	200	Vertical
887.00	<	1.0	20.6	٧	21.6	٧	12.0	200	Vertical

#### Remarks:

\*: Linear interpolations

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

## **TEST REPORT**

Page 12 of 27

No.: HM109541

#### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of	Peak Limits	Average Limits
Fundamental		
[MHz]	[μV/m]	[μV/m]
88-108	2,500	250

#### Results:

	Field Strength of Fundamental Emissions Peak Value										
			reak value								
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna					
	Level @3m	Factor	Strength	Strength		Polarity					
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m						
88.50	32.7	10.3	43.0	141.3	2,500	Horizontal					

Field Strength of Fundamental Emissions Average Value*									
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
88.50	32.4	10.3	42.7	136.5	250	Horizontal			

#### Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth = 3MHz Video Bandwidth 1Hz

## TEST REPORT Page 13 of 27

No.: HM109541

Date: 2003-01-14

## Limited for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

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

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

#### Results:

	Radiated Emissions Quasi-Peak										
Frequency	Me	easured	Correction		Field		Field	Limit @3m	Antenna		
	Lev	el @3m	Factor	S	trength	S	trength		Polarity		
MHz	dl	3μV/m	dBμV/m	d	BμV/m		μV/m	μV/m			
177.00	<	1.0	13.2	<	14.2	<	5.1	150	Vertical		
265.50	<	1.0	9.8	<	10.8	<	3.5	150	Vertical		
354.00	<	1.0	11.5	<	12.5	<	4.2	150	Vertical		
442.50	<	1.0	15.9	<	16.9	<	7.0	200	Vertical		
531.00	٧	1.0	17.4	<	18.4	<	8.3	200	Vertical		
619.50	<	1.0	17.2	<	18.2	<	8.1	200	Vertical		
708.00	<	1.0	18.8	<	19.8	<	9.8	200	Vertical		
796.50	<	1.0	19.7	<	20.7	<	10.8	200	Vertical		
885.00	<	1.0	20.6	<	21.6	<	12.0	200	Vertical		

#### Remarks:

\*: Linear interpolations

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

## **TEST REPORT**

Page 14 of 27

No.: HM109541

### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of	Peak Limits	Average Limits
Fundamental		_
[MHz]	[μV/m]	[μV/m]
88-108	2,500	250

#### Results:

	Field Strength of Fundamental Emissions Peak Value										
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna					
	Level @3m	Factor	Strength	Strength		Polarity					
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m	_					
88.30	33.2	10.3	43.5	149.6	2,500	Horizontal					

Field Strength of Fundamental Emissions Average Value*									
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
88.30	32.8	10.3	43.1	142.9	250	Horizontal			

#### Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth = 3MHz Video Bandwidth 1Hz

## TEST REPORT Page 15 of 27

No.: HM109541

Date: 2003-01-14

## Limited for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

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

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

#### Results:

	Radiated Emissions Quasi-Peak										
Frequency	Me	asured	Correction		Field		Field	Limit @3m	Antenna		
	Lev	el @3m	Factor	S	trength	S	trength		Polarity		
MHz	dE	BμV/m	dBμV/m	d	BμV/m		μV/m	μV/m			
176.60	٧	1.0	13.2	٧	14.2	<	5.1	150	Vertical		
264.90	٧	1.0	9.8	٧	10.8	<	3.5	150	Vertical		
353.20	٧	1.0	11.5	٧	12.5	<	4.2	150	Vertical		
441.50	<	1.0	15.9	٧	16.9	<	7.0	200	Vertical		
529.80	<	1.0	17.4	٧	18.4	<	8.3	200	Vertical		
618.10	<	1.0	17.2	٧	18.2	<	8.1	200	Vertical		
706.40	<	1.0	18.8	٧	19.8	<	9.8	200	Vertical		
794.70	<	1.0	19.7	٧	20.7	<	10.8	200	Vertical		
883.00	<	1.0	20.6	٧	21.6	<	12.0	200	Vertical		

#### Remarks:

\*: Linear interpolations

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

## **TEST REPORT**

Page 16 of 27

No.: HM109541

### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:

Frequency Range of	Peak Limits	Average Limits
Fundamental		
[MHz]	[μV/m]	[μV/m]
88-108	2,500	250

#### Results:

	Field Strength of Fundamental Emissions Peak Value										
			reak value								
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna					
	Level @3m	Factor	Strength	Strength		Polarity					
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m						
88.10	33.8	10.3	44.1	160.3	2,500	Horizontal					

Field Strength of Fundamental Emissions Average Value*									
Frequency	Measured	Correction	Field	Field	Limit @3m	Antenna			
	Level @3m	Factor	Strength	Strength		Polarity			
MHz	dBμV/m	dBμV/m	dBμV/m	μV/m	μV/m				
88.10	33.2	10.3	43.5	149.6	250	Horizontal			

#### Remarks:

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

According to FCC 47CFR15.35, the limit on the radio frequency emissions as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

For effective averaging, the bandwidth of the video filter must be smaller than the resolution bandwidth. The higher the ratio of resolution bandwidth to video bandwidth, the greater the averaging will be. Below setting for HP8572A EMI Receiver.

Resolution Bandwidth = 3MHz Video Bandwidth 1Hz

No.: HM109541

## Limited for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

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

The emission limits shown in the above table are based on measurement employing a CISPR quasipeak detector and above 1000MHz are based on measurements employing an average detector.

#### Results:

Radiated Emissions Quasi-Peak									
Frequency	Me	asured	Correction		Field		Field	Limit @3m	Antenna
	Lev	el @3m	Factor	Strength		Strength			Polarity
MHz	dE	BμV/m	dBμV/m	d	BμV/m		μV/m	μV/m	
176.20	٧	1.0	13.2	<	14.2	٧	5.1	150	Vertical
264.30	٧	1.0	9.8	<	10.8	٧	3.5	150	Vertical
352.40	٧	1.0	11.5	<	12.5	٧	4.2	150	Vertical
440.50	٧	1.0	15.9	<	16.9	٧	7.0	200	Vertical
528.60	٧	1.0	17.4	<	18.4	٧	8.3	200	Vertical
616.70	٧	1.0	17.2	<	18.2	٧	8.1	200	Vertical
704.80	٧	1.0	18.8	<	19.8	٧	9.8	200	Vertical
792.90	٧	1.0	19.7	<	20.7	٧	10.8	200	Vertical
881.00	٧	1.0	20.6	<	21.6	٧	12.0	200	Vertical

#### Remarks:

\*: Linear interpolations

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty = 30MHz to 300MHz ±3.7dB

300MHz to 1GHz +3.0dB / -2.7dB

No.: HM109541

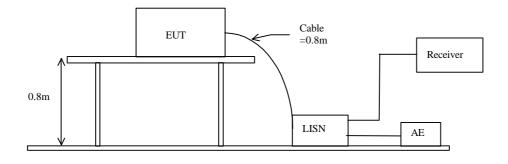
#### 3.1.1 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207
Test Method: ANSI C63.4:2000
Test Date: 2003-01-13
Mode of Operation: On mode

#### **Test Method:**

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.

#### **Test Setup:**



## **TEST REPORT**

Page 19 of 27

No.: HM109541

### Limit for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range	Quasi-Peak Limits
[MHz]	[μV/m]
0.15-30	250

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

Results: N/A

The EUT is operated by internal battery power only, therefore power line conducted emission was deemed unnecessary.

Remarks:

Calculated measurement uncertainty =  $\pm 2.3 dB$ 

No.: HM109541

#### 3.2 26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.227

Test Method: ANSI C63.4:2000 (Section 13.1.7)

Test Date: 2003-01-13 Mode of Operation: On mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

## **TEST REPORT**

Page 21 of 27

No.: HM109541

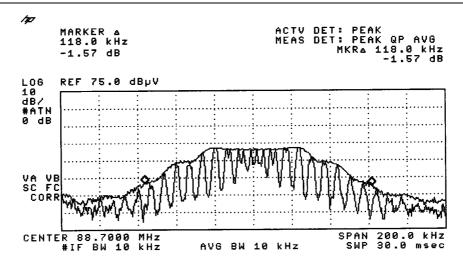
### Limits for 26 dB Bandwidth of Fundamental Emission:

Frequency Range	26dB Bandwidth	FCC Limits *
[MHz]	[KHz]	[KHz]
88.7	118	200

#### Result:

The following figure is the measured bandwidth of Fundamental Emission.

## 26dB Bandwidth of Fundamental Emission



## **TEST REPORT**

Page 22 of 27

No.: HM109541

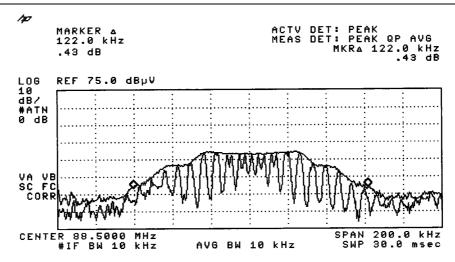
#### Limits for 26 dB Bandwidth of Fundamental Emission:

Frequency Range [MHz]	26dB Bandwidth [KHz]	FCC Limits * [KHz]
88.5	122	200

#### Result:

The following figure is the measured bandwidth of Fundamental Emission.

## 26dB Bandwidth of Fundamental Emission



## **TEST REPORT**

Page 23 of 27

No.: HM109541

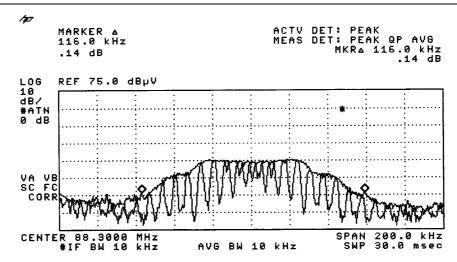
### Limits for 26 dB Bandwidth of Fundamental Emission:

Frequency Range	26dB Bandwidth	FCC Limits *
[MHz]	[KHz]	[KHz]
88.3	116	200

#### Result:

The following figure is the measured bandwidth of Fundamental Emission.

## 26dB Bandwidth of Fundamental Emission



## **TEST REPORT**

Page 24 of 27

No.: HM109541

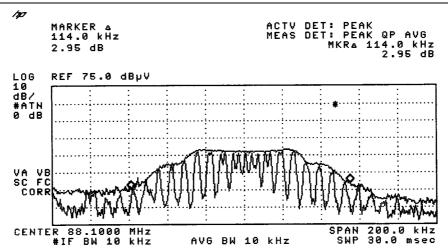
### Limits for 26 dB Bandwidth of Fundamental Emission:

Frequency Range	26dB Bandwidth	FCC Limits *
[MHz]	[KHz]	[KHz]
88.1	114	200

#### Result:

The following figure is the measured bandwidth of Fundamental Emission.





# TEST REPORT Page 25 of 27

No.: HM109541

Date: 2003-01-14

## Appendix A

## **Test Equipment Audit**

### **Radiated Emission**

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EM007	SPECTRUM ANALYZER	HEWLETT PACKARD	HP85660B	3144A21192	07/09/01
EM008	SPECTRUM ANALYZER DISPLAY	HEWLETT PACKARD	HP85662A	3144A20514	07/09/01
EM009	QUASI PEAK ADAPTOR	HEWLETT PACKARD	HP85650A	3303A01702	07/09/01
EM010	RF PRESELECTOR	HEWLETT PACKARD	HP85685A	3221A01410	07/09/01
EM011	ATTENNUATOR/SWITCH	HEWLETT PACKARD	HP11713A	2508A10595	07/09/01
EM012	PRE-AMPLIFIER	HEWLETT PACKARD	HP8449B	3008A00262	07/09/01
EM013	CONTROLLER (COMPUTER), COLOR MONITOR, KEYBOARD & MOUSE FLOPPY DRIVE	HEWLETT PACKARD HEWLETT PACKARD HEWLETT PACKARD	HP9000 HP A1097C HP9133L	6226A60314 3151J39517 2623A02468	СМ
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	14/02/02
EM131	PORTABLE SPECTRUM ANALYSER	HEWLETT PACKARD	8595EM	3710A00155	18/12/01
EM145	EMI TEST RECEIVER	R&S	ESCS 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

### **Conducted Emission**

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	04/10/01
EM119	LISN	R&S	ESH3-Z5	0831.5518.52	31/08/00
EM127	ISOLATION TRANSFORMER 220 TO 300	WING SUN	N/A	N/A	СМ
EM142	PULES LIMITER	R&S	ESH3Z2	357.8810.52	04/07/01
EM181	EMI TEST RECEIVER	R&S	ESIB7	100072	28/11/01
EM154	SHIELDING ROOM	SIEMENA MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	02/01/02
EM197	LISN	EMCO	4825/2	1193	28/03/02

#### Remarks:

CM Corrective Maintenance N/A Not Applicable or Not Available

TBD To Be Determined

# **TEST REPORT**

Page 26 of 27

No.: HM109541

## Appendix B

## Photographs of EUT

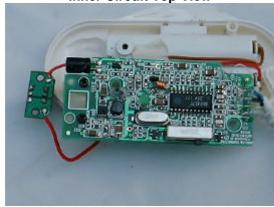
Front View of the product



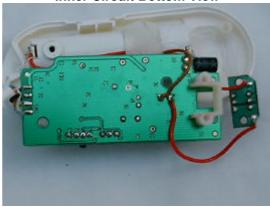
Rear View of the product



Inner Circuit Top View



**Inner Circuit Bottom View** 



# **TEST REPORT**

Page 27 of 27

No.: HM109541

Date: 2003-01-14

## Photographs of EUT

Measurement of Radiated Emission Test Set Up



**End of Document**