

FCC TEST REPORT

Under
FCC Part 74 Subpart H,

Prepared For:

Dexun Electronic Technology Co., Ltd.

North Banlieue Aote Industry Building Enping Guangdong, China.

FCC ID: RFP-DH902

EUT: Wireless Microphone

Model: DH-902

September 26, 2003

Report Type: Original Report

Test Engineer: Peter Lin

Test Date: September 6, 2003


Review By: Apollo Liu / Manager

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1.2 Testing Laboratory

Ke Mei Ou Laboratory Co., Ltd.

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1.3 Details of Applicant

Name : Dexun Electronic Technology Co., Ltd.
Address : North Banlieue Aote Industry Building Enping Guangdong, China.
Contact : Z.J.Feng / General Manager
Tel : + 86 750 7117790
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1.4 Application Details

Date of Receipt of Application : July 2, 2003
Date of Receipt of Test Item : July 2, 2003
Date of Test : July 6, 2003 ~ September 26, 2003

1.5 Test Item

Manufacturer : See Applicant
Brand Name : DEXUN, API, AC, MAX, Hisonic, KAM, Gemini, BST, JBSsystem, WECONIC, Nady.
Model No. : DH-902, DX-80, DX-81, DX-83, DX-84, DX-87, DX-82, DR-2388, DR-3000, MIC-88, KWM-5, KWM-10, DH-901, 401
Description : Wireless Microphone

Additional Information

Frequency : 174.095MHz~205.597MHz
Modulation Mode : FM
Audio Frequency Response : 50Hz~15KHz \pm 3dB
Power : 9V Layers Style
Operating environment Temp. : -10°C~40°C

1. 6 Test Standards

FCC Part 74 Subpart H

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2.1 Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Test	N/A	Owing to the DC operation of EUT, this test item is not performed.
FCC Part 74, Paragraph 74.861(e)(1)(i)	Output Power Measurement	PASS	Complies.
FCC Part 2, Paragraph 2.1047(a)	Modulation Characteristics	PASS	Complies
FCC Part 2, Paragraph 2.1049 (c)(1)	Occupied Bandwidth of Emission	PASS	Complies.
FCC Part 2, Paragraph 2.1053 & FCC Part 74, Paragraph 74.861(e)(6)	Field Strength of Emission	PASS	Complies.
FCC Part 2, Paragraph 2.1055 (a)(1)(d)(2) & FCC Part 74, Paragraph 74.861(e)(4).	Measured Bandwidth	PASS	Complies.

3. EUT Modifications

No modification by Ke Mei Ou Laboratory Co., Ltd.

4. Conducted Power Line Test

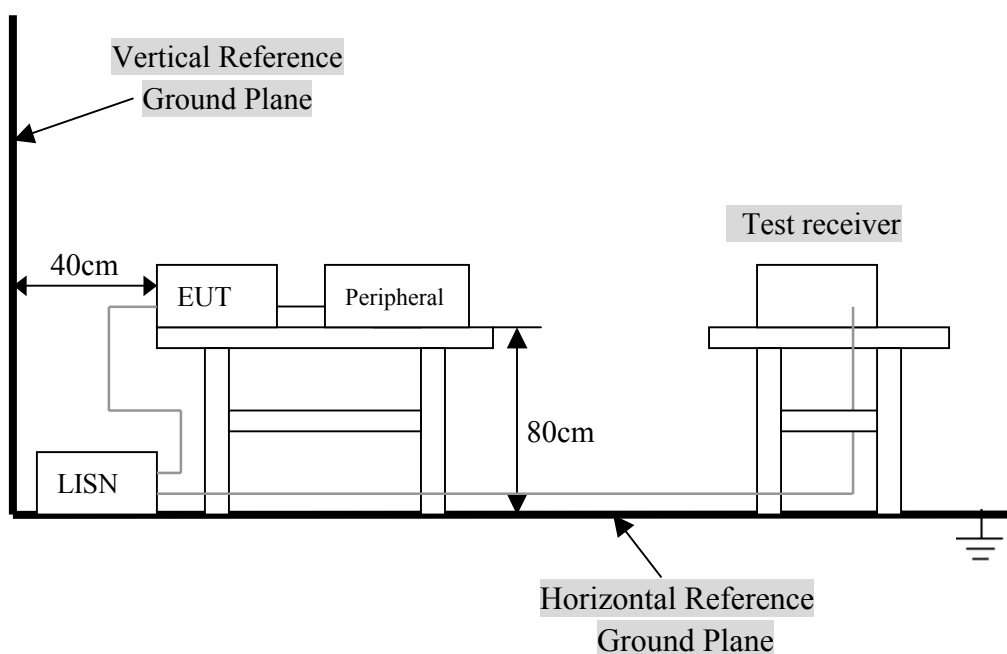
4.1 Test Equipment

Please refer to Section 12 this report.

4.2 Test Procedure

The EUT was tested according to ANSI C63.4 - 1992. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 1992. cables and peripherals were moved to find the maximum emission levels for each frequency.

4.3 Test Setup



For the actual test configuration, Please refer to the related items– Photos of Testing.

4. 4 Configuration of The EUT

4 frequencies are provide by EUT. The 4 frequencies of 174.1MHz, 179.3MHz, 200.1MHz, 205.6Mhz were for test.

Note:

- 1) Below 1GHz, the frequency 174.1MHz, 179.3, 200.1MHz, 205.6MHz were pre-tested in chamber. The frequency 174.1MHz, worst case one, was chosen for radiated emission test.
- 2) Above 1GHz, the frequency 174.1MHz, 179.3MHz, 200.1MHz, 205.6Mhz were tested individually.

A. EUT

Device	Manufacturer	Model #	FCC ID
Wireless Microphone	Dexun Electronic Technology Co., Ltd.	DH-902, DH-901	RFP-DH902

B. Internal Devices

Device	Manufacturer	Model #	FCCID / DoC
N/A			

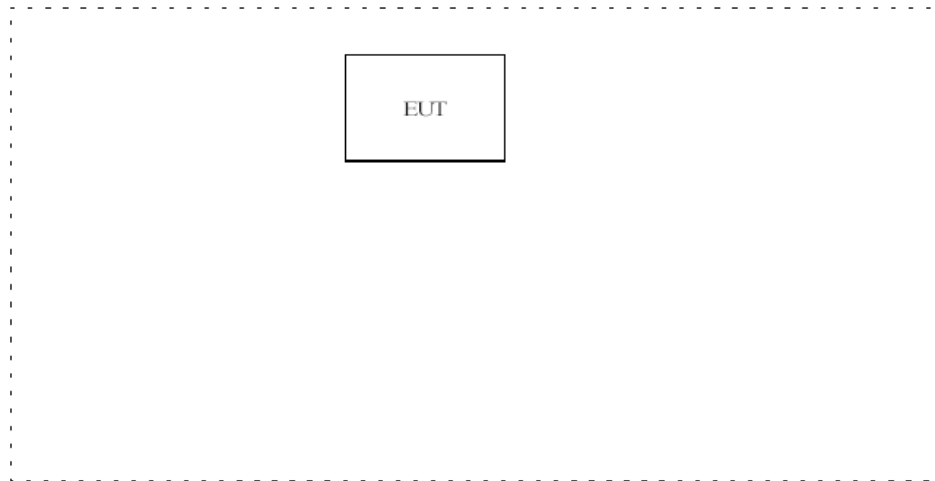
C. Peripherals

Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
N/A				

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 1992.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHz)	Class A QP/AV	Class B QP/AV
0.15 – 0.5	79/66	66-56/56-46
0.5 – 5.0	73/60	56/46
5.0 - 30	73/60	60/50

NOTE : In the above table, the tighter limit applies at the band edges.

4.7 Conducted Power Line Test Result

Owing to the DC operation of EUT, this test item is not performed.

5. Output Power Measurement

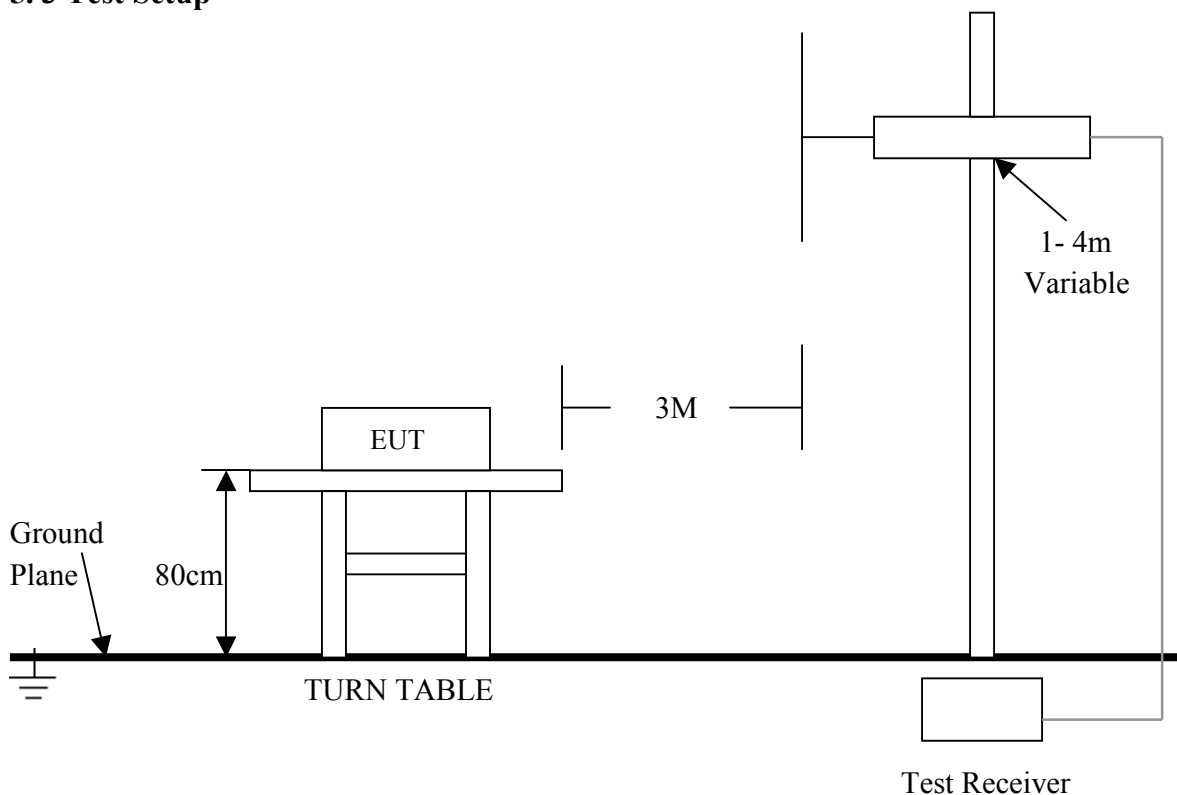
5.1 Test Equipment

Please refer to Section 12 this report.

5.2 Test Procedure

1. Setup the configuration as section 5.3 this report test setup for frequencies measured below and above 1GHz respectively. adjusting the input voltage to produce the maximum power as measured.
2. Adjust the analyzer for each frequency measured in chapter 6 on a 1MHz frequency span and 1MHz resolution bandwidth.
3. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on test receiver, then change the orientation of EUT on test table over a range from 0 degree to 360 degree, and record the highest value indicated on test receiver as reference value.
4. Repeat step 3 until all frequencies need to be measured were complete.
5. Repeat step 4 with search antenna in vertical polarized orientations.
6. Replace the EUT with a tuned dipole antenna (horn antenna for above 1GHz) relative to each frequency in horizontally polarized orientation and as the same polarized orientation with search antenna. Connect the tuned dipole antenna to a standard signal generator(SG) via a low loss cable. Power on the SG and tune the right frequency in measuring as well as set SG at a appreciated output level. Rise and lower the search antenna to get the highest value on test receiver, and then hold this position. Adjust the SG output to get a identical value derived from step 3 on test receiver. Record this value for result calculated.
7. Repeat step 6 until all frequencies need to be measured were complete.
8. Repeat step 7 with both dipole antenna (horn antenna for above 1 GHz) and search antenna in vertical polarized orientations.

5.3 Test Setup



For the actual test configuration , please refer to the related items– Photos of Testing.

5. 4 Configuration of The EUT

Same as section 4 . 4 of this report

5. 5 EUT Operating Condition

Same as section 4 . 5 of this report.

5. 6 Rules and Specification Limits

According to § 74.861(e)(1)(i), the output power shall not exceed 50 milliwatts.

5. 7 Output Power Test Result

A. 174.1MHz (ERP)

Product	: Wireless Microphone	Test Mode	: 174.1MHz
Test Item	: Output Power Measurement	Temperature	: 25 °C
Test Voltage	: DC 9V	Humidity	: 56%RH
Test Result	: PASS		

Frequency. (MHz)	Result (dBm)	Output Power (mW)	Limit (mW)
174.095	0.61	1.15	50.0

B. 179.3MHz (ERP)

Product	: Wireless Microphone	Test Mode	: 179.3MHz
Test Item	: Output Power Measurement	Temperature	: 25 °C
Test Voltage	: DC 9V	Humidity	: 56%RH
Test Result	: PASS		

Frequency. (MHz)	Result (dBm)	Output Power (mW)	Limit (mW)
179.300	-0.51	0.89	50.0

C. 200.1MHz (ERP)

Product	: Wireless Microphone	Test Mode	: 200.1MHz
Test Item	: Output Power Measurement	Temperature	: 25 °C
Test Voltage	: DC 9V	Humidity	: 56%RH
Test Result	: PASS		

Frequency. (MHz)	Result (dBm)	Output Power (mW)	Limit (mW)
200.105	-0.92	0.81	50.0

D. 205.6MHz (ERP)

Product	: Wireless Microphone	Test Mode	: 205.6MHz
Test Item	: Output Power Measurement	Temperature	: 25 °C
Test Voltage	: DC 9V	Humidity	: 56%RH
Test Result	: PASS		

Frequency. (MHz)	Result (dBm)	Output Power (mW)	Limit (mW)
205.597	-0.36	0.92	50.0

Note: For measured frequency below 1GHz, a tuned dipole antenna is used.

5.8 Result Calculation

Result calculation is as following:

Result = SG Reading + Cable Loss + Antenna Gain Corrected

Antenna Gain Corrected: is used for antenna other than dipole to convert radiated power to ERP.

$$\text{mW} = \log^{-1} \left[\frac{\text{Result(dBm)}}{10} \right]$$

6. Modulation Characteristics

6.1 Test Equipment

Please refer to Section 12 this report.

6.2 Test Procedure

A. Frequency response of audio circuits

- 1) Position the EUT as Section 6.3 this report.
- 2) Vary the modulating frequency from 100 Hz to 5000 Hz with varying the input voltage from 0V to maximum permitted input voltage, and observe the change in output.

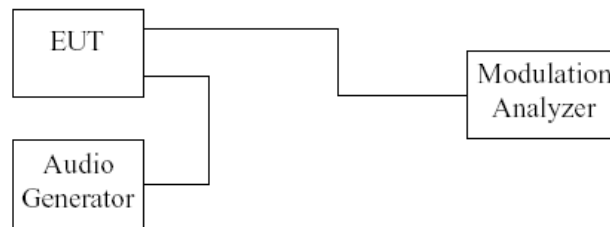
B. Modulation Limit

- 1) Position the EUT as shown in follow. Adjust the audio input frequency to 100 Hz and the input level from 0V to maximum permitted input voltage with recording each carrier frequency deviation responding to response input level.
- 2) Repeat step 1) with changing the input frequency for 200, 500, 1000, 3000, and 5000 Hz in sequence.

C. Frequency response of all circuits

- 1) Position the EUT as shown in follow.
- 2) Vary the modulating frequency from 100 Hz to 15000 Hz with constant input voltage and observe the change in output.

6.3 Test Setup

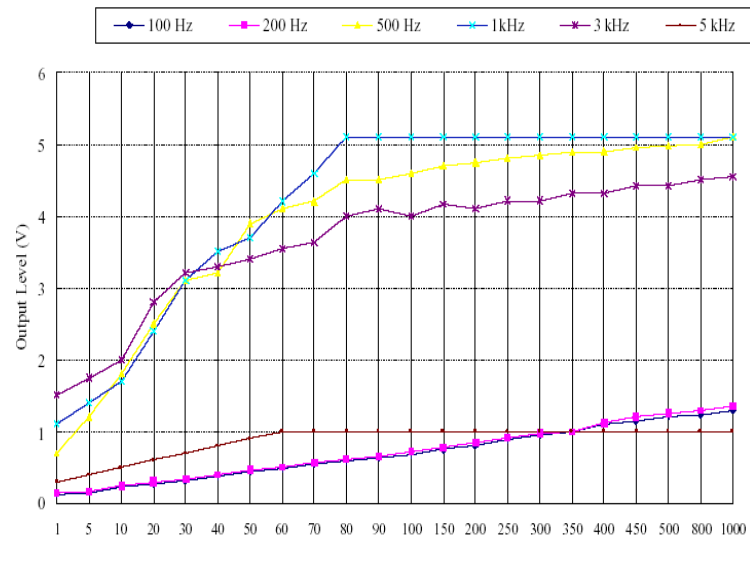


6.4 Rules and Specification Limits

According to § 2.1047 (a), for Voice Modulated Communication Equipment, the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be measured.

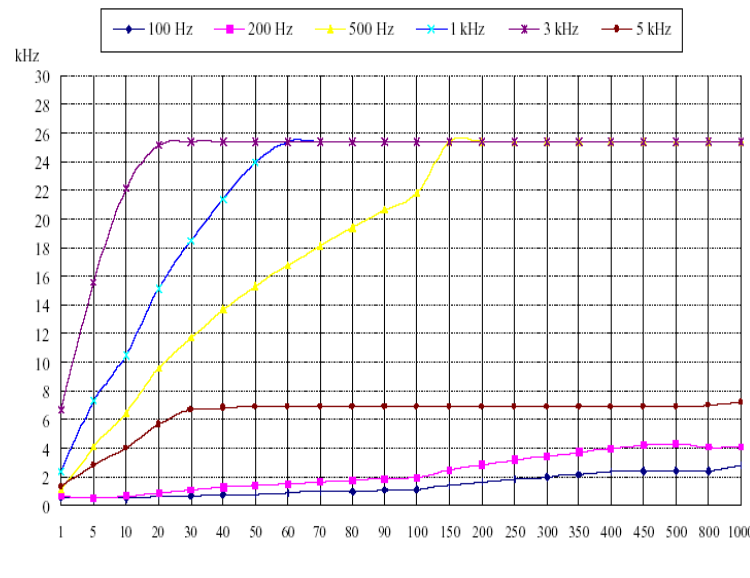
6. 5 Test Result

A. Frequency response of audio circuits



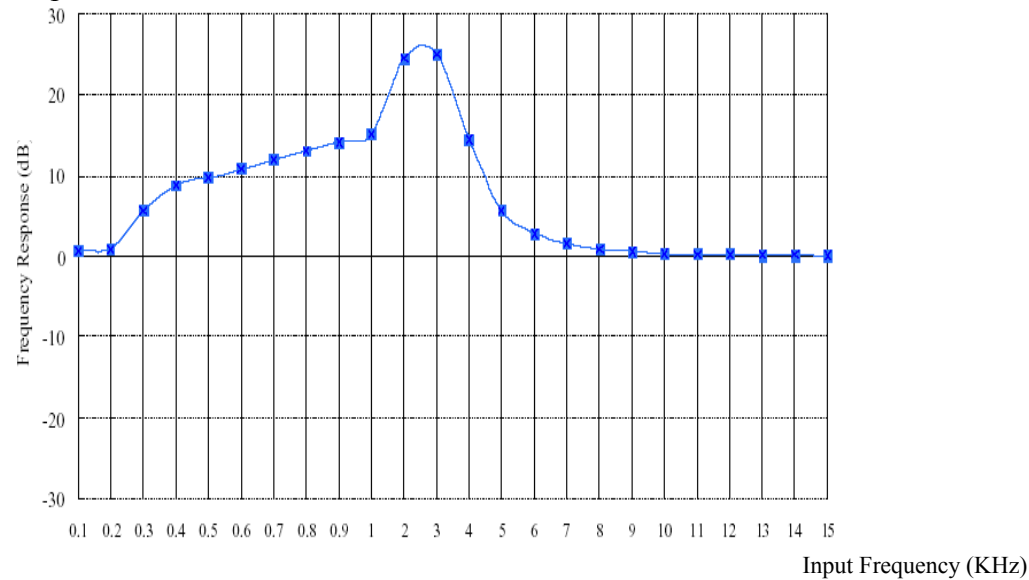
Input Level (mV)

B. Modulation Limit



Input Level (mV)

C. Frequency response of all circuits



7. Occupied Bandwidth of Emission

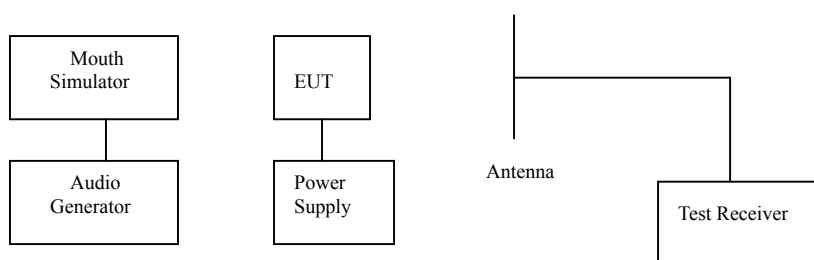
7.1 Test Equipment

Please refer to Section 12 this report.

7.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the output of the signal generator to 15KHz. Increase the amplitude of the signal, while monitoring the modulation meter. Until modulation is maximum measure the bandwidth under 26dB compared to the unmodulated fundamental carrier peak level of the modulated signal displayed on the test receiver

7.3 Test Setup



7.4 Rules and Specification Limits

According to § 2.1049 (c)(1): ANSI / TIA / EIA-603-1992, Paragraph 2.2.11

According to § 74.861 (e)(3), Any form of modulation may be used. A maximum deviation of ± 75 KHz is permitted when frequency modulation is employed.

According to § The operation bandwidth shall not exceed 200KHz.

7.5 Occupied Bandwidth Test Result

The occupied bandwidth's plot is presented on following pager, which illustrates compliance with the rules.

Calculation of Necessary Bandwidth (Bn)

$$B_n = 2M + 2DK$$

M = Max. Modulation Frequency = 15.0 KHz

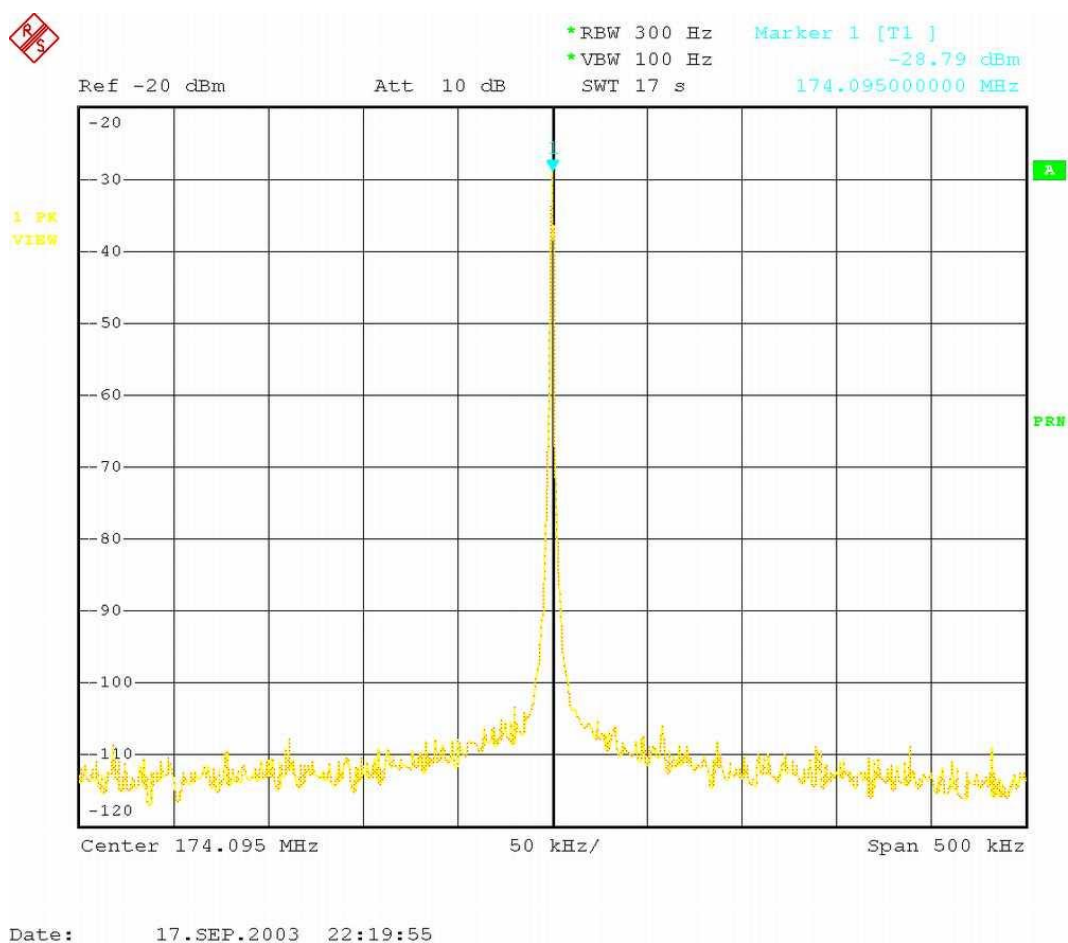
D = Peak Frequency Deviation = 25.5KHz

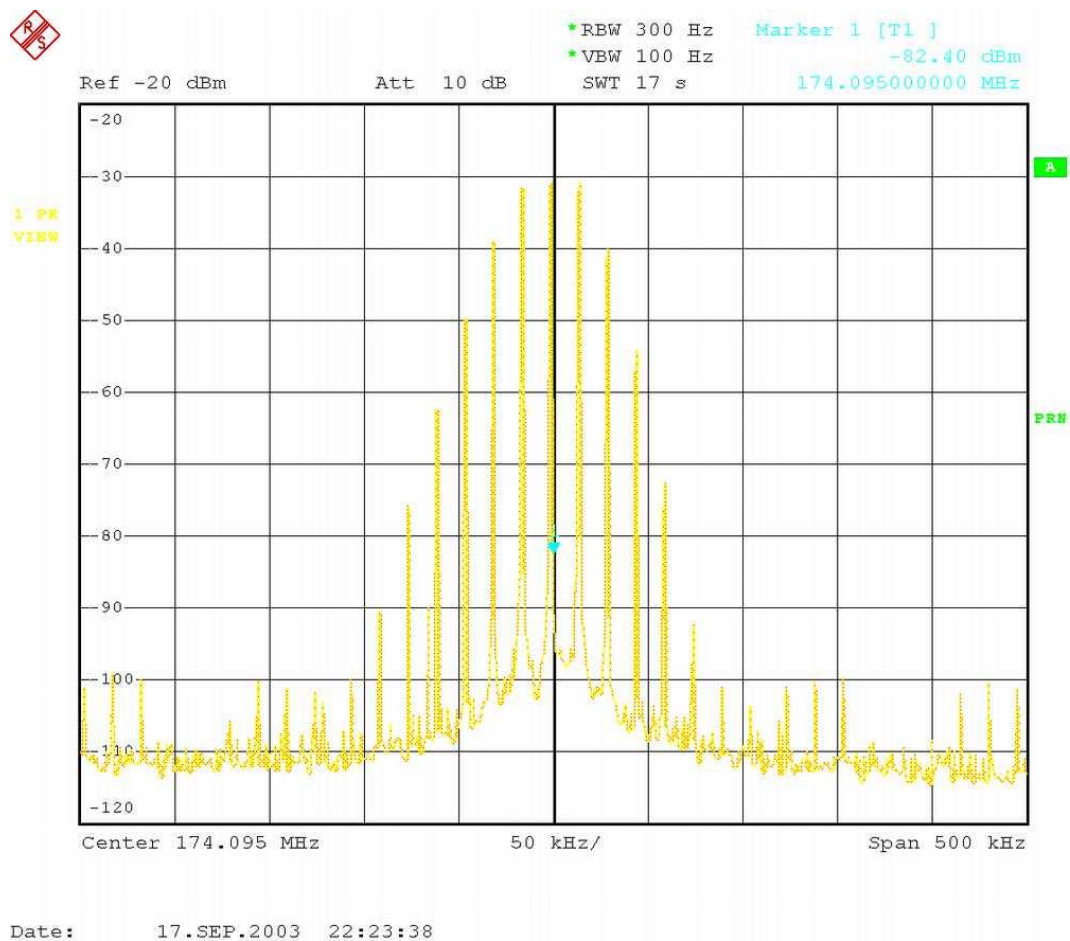
K = 1

$$B_n = 81\text{KHz}$$

Product	: Wireless Microphone	Test Mode	: 174.1MHz
Test Item	: Output Power Measurement	Temperature	: 25 °C
Test Voltage	: DC 9V	Humidity	: 56%RH
Test Result	: PASS		

Unmodulation



15KHz modulation

8. Field Strength of Emission

8.1 Test Equipment

Please refer to Section 12 this report.

8.2 Test Procedure

1. Setup the configuration in Section 5.3 this report for frequencies measured below and above 1GHz respectively, adjusting the input voltage to produce the maximum power as measured in Section 5 this report.
2. Adjust the test receiver for each frequency measured on a 1MHz frequency span and 1MHz resolution bandwidth.
3. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on test receiver. Then change the orientation of EUT on test table over a range from 0 degree to 360 degree, and record the highest value indicated on test receiver as reference value.
4. Repeat step 3 until all frequencies need to be measured were complete.
5. Repeat step 4 with search antenna in vertical polarized orientations.
6. Replace the EUT with a tuned dipole antenna (horn antenna for above 1GHz) relative to each frequency in horizontally polarized orientation and as the same polarized orientation with search antenna. Connect the tuned dipole antenna to a standard signal generator (SG) via a low loss cable. Power on the SG and tune right frequency in measuring as well as set SG at a appreciated output level. Rise and lower the search antenna to get the highest value on test receiver, and then hold this position. Adjust the SG output to get a identical value derived from step 3 on test receiver. Record this value for result calculated.
7. Repeat step 6 until all frequency need to be measured were complete.
8. Repeat step 7 with both dipole antenna (horn antenna for above 1GHz) and search antenna in vertical polarized orientations.

8.3 Rules and Specification Limits

According to § 2.1053(a): ANSI/ TIA/ EIA-603-1992, Paragraph 2.2.12,

Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, Power leads, or intermediate circuit elements under normal conditions of installation and operation.

According to § 74.861 (e)(6)(iii):

Spurious and harmonics must be at least $43 + 10\log(\text{Output Power})$ below the carrier peak.

According to § 2.1057:

In all measurements set forth, the test receiver should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.

8. 4 Test Result

A. 174.1MHz

Product : Wireless Microphone Test Mode : 174.1MHz
 Test Item : Field Strength of Emission Temperature : 25 °C
 Test Voltage : DC 9V Humidity : 56%RH
 Test Result : **PASS**

Unmodulated carrier output power is 0.61dBm, or 1.15 mW(ERP). The limit of spurious or harmonics is calculated as following:

$$0.61 - [43 + 10\log(\text{carrier output power in W})], \text{ or } -13\text{dBm}$$

Frequency. (MHz)	Result (dBm) Hori. / Vert.	Limit (dBm)	Margin (dB) Hori. / Vert.
348.193	-63.4 / -62.1	-13.0	-50.4 / -49.1
522.287	-66.5 / -65.3	-13.0	-53.5 / -42.3
696.390	-73.6 / -71.7	-13.0	-60.6 / -58.7
870.479	-78.3 / -76.2	-13.0	-65.3 / -63.2
1044.591	-46.4 / -43.9	-13.0	-33.4 / -30.9
1740.964	-56.8 / -56.0	-13.0	-43.8 / -43.0

- Note:**
- (1) For measured frequency below 1GHz, a tuned dipole antenna is used.
 - (2) Result calculation is as following:
 Result = SG Reading + Cable Loss + Antenna Gain Corrected.
 Antenna Gain Corrected: is used for antenna other than dipole to convert radiated power to ERP.
 - (3) Spurious or harmonics above 1 GHz is too low to be detected or attenuated more than 60dB from limit value.

B. 179.3MHz

Product : Wireless Microphone Test Mode : 179.3MHz
 Test Item : Field Strength of Emission Temperature : 25 °C
 Test Voltage : DC 9V Humidity : 56%RH
 Test Result : **PASS**

Unmodulated carrier output power is -0.51 dBm, or 0.89 mW(ERP). The limit of spurious or harmonics is calculated as following:

$$-0.51 - [43 + 10\log(\text{carrier output power in W})], \text{ or } -13\text{dBm}$$

Frequency. (MHz)	Result (dBm) Hori. / Vert.	Limit (dBm)	Margin (dB) Hori. / Vert.
358.703	-61.4 / -60.7	-13.0	-48.4 / -47.7
538.912	-67.5 / -63.6	-13.0	-54.5 / -50.6
718.323	-71.2 / -70.0	-13.0	-58.2 / -57.0
897.633	-76.6 / -75.4	-13.0	-63.6 / -62.4
1075.812	-53.3 / -53.2	-13.0	-40.3 / -40.2
1793.120	-54.6 / -53.6	-13.0	-41.6 / -40.6

- Note:**
- (1) For measured frequency below 1GHz, a tuned dipole antenna is used.
 - (2) Result calculation is as following:
 Result = SG Reading + Cable Loss + Antenna Gain Corrected.
 Antenna Gain Corrected: is used for antenna other than dipole to convert radiated power to ERP.
 - (3) Spurious or harmonics above 1 GHz is too low to be detected or attenuated more than 60dB from limit value.

C. 200.1MHz

Product : Wireless Microphone Test Mode : 200.1MHz
 Test Item : Field Strength of Emission Temperature : 25 °C
 Test Voltage : DC 9V Humidity : 56%RH
 Test Result : **PASS**

Unmodulated carrier output power is -0.92 dBm, or 0.81mW(ERP). The limit of spurious or harmonics is calculated as following:

$$-0.92 - [43 + 10 \log(\text{carrier output power in W})], \text{ or } -13 \text{ dBm}$$

Frequency. (MHz)	Result (dBm) Hori. / Vert.	Limit (dBm)	Margin (dB) Hori. / Vert.
401.216	-60.2 / -59.6	-13.0	-47.2 / -46.6
601.413	-66.8 / -64.3	-13.0	-53.8 / -51.3
800.236	-69.1 / -68.1	-13.0	-56.1 / -55.1
1000.625	-73.3 / -71.7	-13.0	-60.3 / -58.7
1200.789	-51.1 / -49.3	-13.0	-38.1 / -36.3
2000.105	-60.6 / -59.1	-13.0	-47.6 / -46.1

- Note:**
- (1) For measured frequency below 1GHz, a tuned dipole antenna is used.
 - (2) Result calculation is as following:
 Result = SG Reading + Cable Loss + Antenna Gain Corrected.
 Antenna Gain Corrected: is used for antenna other than dipole to convert radiated power to ERP.
 - (3) Spurious or harmonics above 1 GHz is too low to be detected or attenuated more than 60dB from limit value.

D. 205.6MHz

Product : Wireless Microphone Test Mode : 205.6MHz
 Test Item : Field Strength of Emission Temperature : 25 °C
 Test Voltage : DC 9V Humidity : 56%RH
 Test Result : **PASS**

Unmodulated carrier output power is -0.36dBm, or 0.92mW(ERP). The limit of spurious or harmonics is calculated as following:

$$-0.36 - [43 + 10 \log(\text{carrier output power in W})], \text{ or } -13 \text{ dBm}$$

Frequency. (MHz)	Result (dBm) Hori. / Vert.	Limit (dBm)	Margin (dB) Hori. / Vert.
411.194	-60.7 / -59.1	-13.0	-47.7 / -46.1
616.796	-63.1 / -62.0	-13.0	-50.1 / -49.0
822.410	-67.2 / -66.5	-13.0	-54.2 / -53.5
1027.985	-64.0 / -59.2	-13.0	-51.0 / -46.2
1233.591	-51.3 / -48.3	-13.0	-38.3 / -35.3
2055.973	-56.2 / -54.8	-13.0	-43.2 / -41.8

- Note:**
- (1) For measured frequency below 1GHz, a tuned dipole antenna is used.
 - (2) Result calculation is as following:
 Result = SG Reading + Cable Loss + Antenna Gain Corrected.
 Antenna Gain Corrected: is used for antenna other than dipole to convert radiated power to ERP.
 - (3) Spurious or harmonics above 1 GHz is too low to be detected or attenuated more than 60dB from limit value.

9. Frequency Stability Measurement

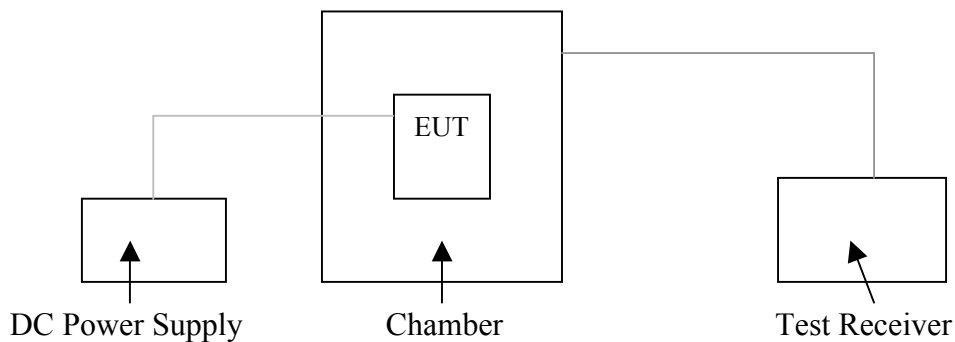
9.1 Test Equipment

Please refer to Section 12 this report.

9.2 Test Procedure

1. Place the EUT in the chamber, powered in its normal operation.
2. Set the temperature of the chamber -30 degree Centigrade. Allow the equipment to stabilize at that temperature.
3. Measurement the carrier frequency using preamplifier and frequency counter.
4. Repeated procedures 1 to 3 from -20 to 50 degree Centigrade at internals of 10 degree.

9.3 Test Setup



9.4 Rules and Specification Limits

According to § 2.1055 (a)(1), The frequency stability shall be measured with variation of ambient temperature from -30°C to $+50^{\circ}\text{C}$ centigrade, and according to § 2.1055 (d)(2), the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point which is specified by the manufacturer.

According to § 74.861: The frequency tolerance of the transmitter shall be 0.005 percent.

9.5 Test Result

Frequency stability versus environment temperature

Reference Frequency: 179.3000 MHz				Limit: 0.005%			
Environment Temperature (°C)	Power Supplied (9Vdc)	Frequency measured with time elapsed					
		2 minute (MHz) (%)		5 minute (MHz) (%)		10 minute (MHz) (%)	
50	New Batt.	179.2961	-0.00218%	179.2933	-0.00374%	179.2946	-0.00301%
	New Batt.	179.3043	0.00240%	179.2918	-0.00457%	179.2919	-0.00452%
	New Batt.	179.2913	-0.00485%	179.3045	0.00251%	179.2911	-0.00496%
40	New Batt.	179.2921	-0.00441%	179.2926	-0.00413%	179.3083	0.00463%
	New Batt.	179.2918	-0.00457%	179.3011	0.00061%	179.3086	0.00480%
	New Batt.	179.3016	0.00089%	179.3039	0.00218%	179.3048	0.00268%
30	New Batt.	179.3014	0.00078%	179.2938	-0.00346%	179.2987	-0.00073%
	New Batt.	179.3046	0.00257%	179.2989	-0.00061%	179.3071	0.00396%
	New Batt.	179.2936	-0.00357%	179.3085	0.00474%	179.3012	0.00067%
20	New Batt.	179.3081	0.00452%	179.3056	0.00312%	179.3086	0.00480%
	New Batt.	179.2928	-0.00402%	179.3068	0.00379%	179.2968	-0.00178%
	New Batt.	179.2943	-0.00318%	179.3014	0.00078%	179.2946	-0.00301%
10	New Batt.	179.3056	0.00312%	179.3048	0.00268%	179.2919	-0.00452%
	New Batt.	179.3066	0.00368%	179.3058	0.00323%	179.2936	-0.00357%
	New Batt.	179.3084	0.00468%	179.2918	-0.00457%	179.3045	0.00251%
0	New Batt.	179.2936	-0.00357%	179.2921	-0.00441%	179.2939	-0.00340%
	New Batt.	179.2965	-0.00195%	179.2938	-0.00346%	179.3047	0.00262%
	New Batt.	179.2911	-0.00496%	179.2946	-0.00301%	179.3086	0.00480%
-10	New Batt.	179.2945	-0.00307%	179.3081	0.00452%	179.3029	0.00162%
	New Batt.	179.2916	-0.00468%	179.3046	0.00257%	179.3087	0.00485%
	New Batt.	179.2926	-0.00413%	179.2936	-0.00357%	179.2923	-0.00429%
-20	New Batt.	179.2939	-0.00340%	179.3068	0.00379%	179.3045	0.00251%
	New Batt.	179.295	-0.00279%	179.3021	0.00117%	179.2912	-0.00491%
	New Batt.	179.2989	-0.00061%	179.2963	-0.00206%	179.3047	0.00262%

B2. Frequency stability versus end-point supplied voltage (7Vdc)

Reference Frequency: 736.0000 MHz				Limit: 0.005%			
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency measured with time elapsed					
		2 minute (MHz) (%)		5 minute (MHz) (%)		10 minute (MHz) (%)	
25	End-Point	179.2989	-0.00061%	179.2956	-0.00245%	179.2969	-0.00173%

10. Photos of Testing

10. 1 EUT Test Photographs

Radiated emission test view



10. 2 EUT Detailed Photographs

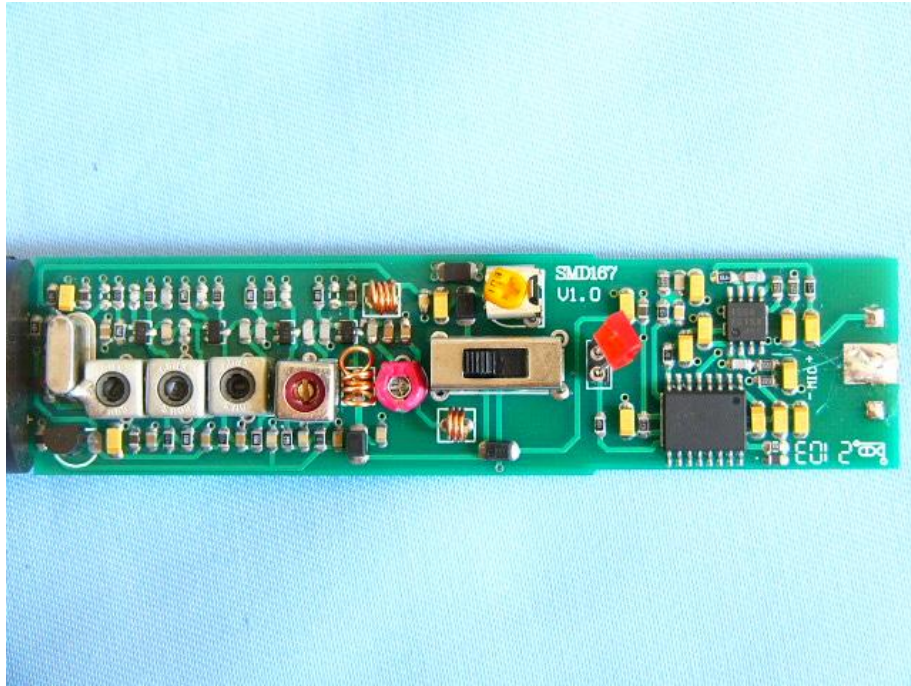
(1) EUT view



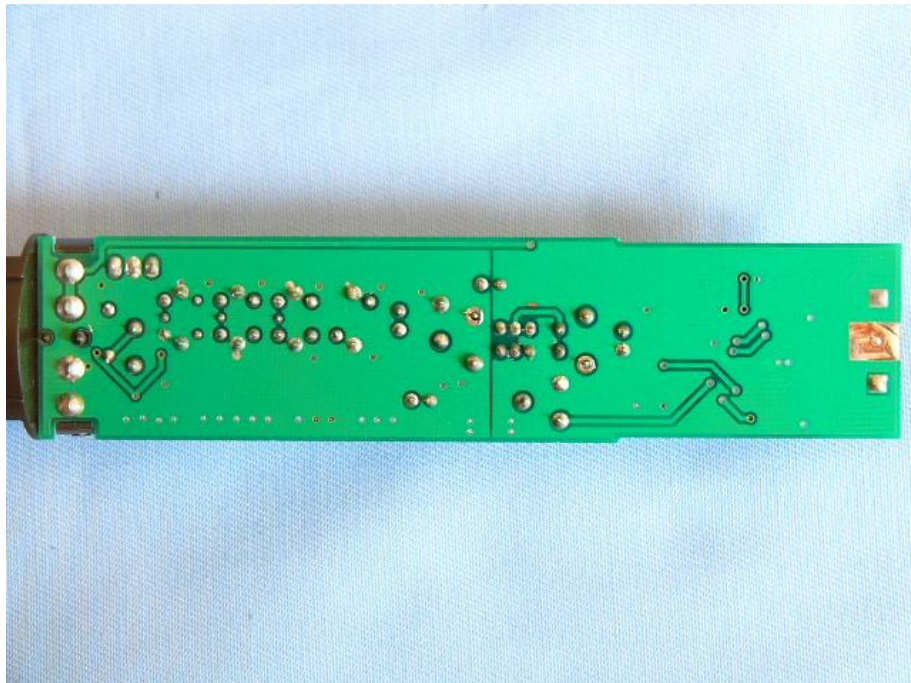
(2) EUT inside whole view



(3) Main board component side



(4) Main board solder side



11. FCC ID Label

FCC ID: RFP-DH902

This device complies with Part 74 of the FCC Rules.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Location



9. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Date of Cal.	Due Date
Turntable	KMO	KSZ001T	200306	NCR	NCR
Antenna Tower	KMO	KSZ002AT	200307	NCR	NCR
OATS	KMO	KSZSITE001	N/A	July 06, 2003	July 06, 2004
EMI Test Receiver	Rohde & Schwarz	ESPI3	100180	Oct.18, 2002	Oct.18, 2003
Signal Generator	Rohde & Schwarz	SMT03	100059	Feb.01, 2003	Feb.01, 2004
Bilog Antenna	Chase	CBL6111C	2576	Feb.01, 2003	Feb.01, 2004
Ultra Broadband Antenna	Rohde & Schwarz	HL 562	100110	June.05, 2003	June.05, 2004
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct. 23,2003	Oct. 23, 2004
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct. 23,2003	Oct. 23, 2004
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
KMO Shielded Room	KMO	KMO-001	N/A	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb. 27, 2003	Feb.27, 2004
AMN	Rohde & Schwarz	ESH3-Z5	100002	Feb. 01, 2003	Feb.01, 2004
LISN	Kyoritsu	KNW-407	8-1441-8	Feb. 23, 2003	Feb.23, 2004
EMI Test Receiver	Rohde & Schwarz	ESI26	838786/013	Feb. 01, 2003	Feb.01, 2004
Bilog Antenna	Chase	CBL6112B	2591	Feb. 01, 2003	Feb.01, 2004
Horn Antenna	Rohde & Schwarz	HF906	100014	Feb. 01, 2003	Feb.01, 2004
Power Meter	Rohde & Schwarz	NRVD	100041	Feb. 01, 2003	Feb.01, 2004
Radio Communication Test Set	IFR	2955B	100015	Feb 01, 2003	Feb 01, 2004
Multifunction Synthesizer	Hewlett-Packard	8904A	100016	Feb 01, 2003	Feb 01, 2004
Temperature Chamber	TABAI	PSL-4GTW	N/A	Feb 06,2003	Feb 06, 2004
3m Semi-Anechoic Chamber	Albatross Projects	9mX6mX6m	N/A	Feb. 01, 2003	Feb.01, 2004