TEST REPORT FOR FCC CERTIFICATION
Class II Permissive Change

On Behalf of

LG Electronics USA

FM Transmitter

Model No.：GFT-41

FCC ID：BEJFTGFT-41

Prepared for : LG Electronics USA
2000 Millbrook Dr. Lincolnshire,
IL 60069, United States

Prepared by : Audix Corporation
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File Number	:	EM930877BR2
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Date of Test	:	Oct. 22 ~ 27, 2004
Date of Report	:	Nov. 04, 2004

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TEST REPORT CERTIFICATION
(Class II Permissive Change)

Applicant	:	LG Electronics USA
Manufacturer #1	:	Kwang Sung Electronics Co., Ltd.
Manufacturer #2	:	Kwang Sung Electronics H.K. Co., Ltd.
Factory	:	Shen Zhen Kwang Sung Electronics Co., Ltd.
EUT Description	:	FM Transmitter
FCC ID	:	BEJFTGFT-41
		(A) MODEL NO. : GFT-41
		(B) SERIAL NO. : N/A
		(C) POWER SUPPLY : DC 1V ~ 1.5V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C, July 2004
AND ANSI C63.4-2003
(FCC CFR 47 Part 15C, §15.203, §15.207, §15.209 and §15.239)

The device described above was tested by AUDIX COPORATION. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits both radiated and conducted emissions.

The measurement results are contained in this test report and AUDIX CORPORATION. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX CORPORATION.

Date of Test: Oct. 22 ~ 27, 2004

Prepared by: Cherry Wang Nov. 05, 2004
(Cherry Wang/Section Manager)

Test Engineer: Allen Wang Nov. 05 '04
(Allen Wang/Manager)

Approved & Authorized Signer: Leon Liu Nov. 5 2004
(Leon Liu/Senior Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	FM Transmitter This equipment transmits wirelessly which connects music play equipments (MP3, CD) in the car or home. It replaces audio signal with FM frequency. The transmitted signal can be heard FM or Car Radio.
Model Number	:	GFT-41
FCC ID	:	BEJFTGFT-41
Applicant	:	LG Electronics USA 2000 Millbrook Dr. Lincolnshire, IL 60069, United States
Manufacturer #1	:	Kwang Sung Electronics Co., Ltd. R&D Center World Meridian Venture Center #201, Digital Industrial Complex-2 60-24, Gasan-Dong, Geumcheon-Gu, Seoul 153-801 Korea.
Manufacturer #2	:	Kwang Sung Electronics H.K. Co., Ltd. Unit 8-9, 13/F, Wah Wai Ind. Centre, 38-40 Au Pui Wan St., Fo Tan, N.T., Hong Kong.
Factory	:	Shen Zhen Kwang Sung Electronics Co., Ltd. Shi Tou Hill Industrial Zone, Zhuan Chuang New Village Shi Yan Town, Bao An, Shen Zhen, China.
Transmitted Frequency Range	:	88.2MHz~88.8MHz (FM)
Channel Number	:	4 channels (interval of channel: 200kHz)
Supply Voltage	:	DC 1V ~ 1.5V (AAA Size alkaline 1.5Vx1)
Current Drain	:	70mA

Audio Input Cable	:	Non-Shielded, Undetachable, 0.3m
FM Antenna	:	Detachable, 0.2m
Earphone	:	LG, Cable: Non-Shielded, Undetachable, 0.9m+0.5m
Date of Receipt of Sample	:	Oct. 21, 2004
Date of Test	:	Oct. 22 ~ 27, 2004

Remark:

This EUT is a modification version with original FCC ID BEJFTGFT-41. The differences are:
(1) to change the C27 Chip Capacitor from 102K(1000pF) into 331K(330pF).
(2) to change the R2 & R3 Chip Resistors from 56K into 10K.
(3) to change the R10 & R13 Chip Resistors from 8.2K into 10K.

The others transmitting frequency, PCB circuit & layout the same as original. The EUT is re-testing in radiated measurement and recorded test data in this report.

1.2. Tested Supporting System Details

1.2.1. MP3 PLAYER

Model Number	:	MF-FE429
Serial Number	:	S/N
FCC ID	:	By DoC
Manufacturer	:	LG Electronics Inc.

1.3. Description of Test Facility

Name of Firm	:	**Audix Corporation** **Technical Division EMC Department** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien 24443, Taiwan, R.O.C.
Test Location & Facility (A/C)	:	**Semi-Anechoic Chamber** No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang, Taipei Hsien 24443, Taiwan, R.O.C. May. 16, 2003 File on Federal Communication Commission Registration Number: 90993
NVLAP Lab. Code	:	200077-0

(NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB

Remark：Uncertainty = $ku_c(y)$

2. POWERLINE CONDUCTED EMISSION MEASUREMENT

【The EUT only employ DC power for operation, no conductive emissions limits are required according to FCC Part 15 section §15.207(c)】

3. RADIATED EMISSION MEASUREMENT

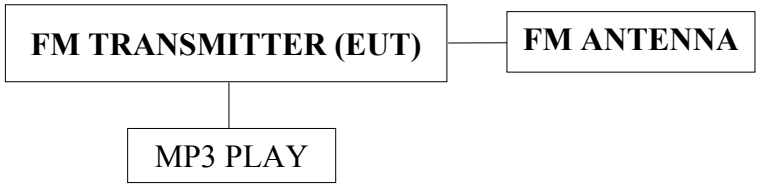
3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

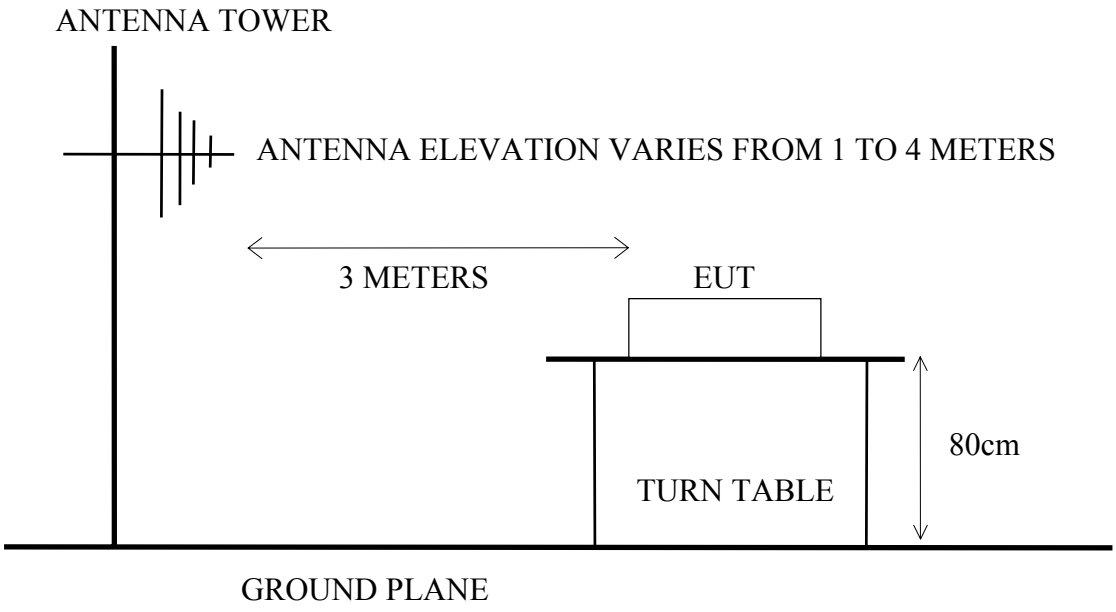
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Oct.04, 04'	Oct.03, 05'
2.	Test Receiver	R & S	ESCS30	100265	Oct.05, 04'	Oct.04, 05'
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar.18, 04'	Mar.17, 05'
4.	Broadband Antenna	Schwarzbeck	BBA 9106	A3L	Feb.21, 04'	Feb.20, 05'
5.	Broadband Antenna	Schwarzbeck	UHALP9108-A	0138	Feb.21, 04'	Feb.20, 05'

3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



3.3. Radiation Limit (Comply with §15.239 & §15.209)

3.3.1. §15.239 Radiated Emission Limits (Fundamental Frequency)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		μV/m	dBμV/m
Fundamental Freq.	3	250	48.0 (Average)
		---	68.0 (Peak)*(2)

Remark： (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) The provision in section 15.35 for limiting peak emission apply.

3.3.2. §15.209 Radiated Emission Limits (Spurious Frequency)

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMITS	
MHz	Meters	μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

Remark： (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) The tighter limit applies at the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and 15.205(b) & Part 15.209(e).

3.4. EUT's Configuration during Compliance Measurement

The following equipment were installed on radiated measurement to meet the commission requirement and operating in a manner which tended to maximize its emission characteristics in a normal application.

3.4.1. FM Transmitter (EUT)

Model Number	:	GFT-41
Serial Number	:	N/A
FCC ID	:	BEJFTGFT-41
Manufacturer	:	Kwang Sung Electronics Co., Ltd.
Factory	:	Shen Zhen Kwang Sung Electronics Co., Ltd.
Transmitted Frequency	:	88.2MHz~88.8MHz (FM)
FM Antenna	:	Detachable, 0.2m
Audio Input Cable	:	Non-Shielded, Undetachable, 0.3cm

3.4.2. Supporting System : As in Section 1.2.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown on 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. The EUT connected MP3 Player and turn the transmitting frequency to 88.2MHz、88.6MHz、88.8MHz during the testing.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

The bandwidth of R & S test receiver ESCS 30 was set at 120kHz.

The frequency range from 30MHz to 1000MHz was checked. The all final readings of measurement were using the Peak or Average or Quasi-Peak detector.

EUT with the worst operating condition were measured within Semi-Anechoic Chamber and all the test results are listed in section 3.7. The details of test modes are as follows:

Mode	Operating Condition of EUT	Power Supply
1.	Transmitting FM Radio Frequency 88.2MHz w/FM Antenna, EUT set on Lie	DC Battery 1.5V
2.	Transmitting FM Radio Frequency 88.2MHz w/FM Antenna, EUT set on Side	
3.	Transmitting FM Radio Frequency 88.2MHz w/FM Antenna EUT set on Stand	
4.	Transmitting FM Radio Frequency 88.6MHz w/FM Antenna, EUT set on Lie	
5.	Transmitting FM Radio Frequency 88.8MHz w/FM Antenna, EUT set on Lie	

3.7. Radiated Emission Measurement Results

PASSED.
All the emissions not reported below are too low against the FCC Part 15 Subpart C official limits.

Date of Test：	Oct. 26, 2004	Temperature：	21℃
EUT：	FM Transmitter	Humidity：	50%
Test Mode 1：	EUT w/FM Antenna, Set On Lie (Transmitting FM Radio Frequency 88.2MHz)		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.200	15.57	2.00	21.60	39.17	48.00	8.83
Fundamental Freq. (Peak Value)						
88.200	15.57	2.00	24.71	42.28	68.00	25.72
Unwanted Emission (Quasi-Peak Value)						
176.400	21.24	2.90	14.66	38.80	43.50	4.70
264.600	24.62	3.70	3.29	31.61	46.00	14.39
352.800	15.64	4.30	-0.69	19.25	46.00	26.75
441.000	17.59	5.40	0.26	23.25	46.00	22.75
529.200	19.64	7.00	0.73	27.37	46.00	18.63
617.400	21.33	6.30	-0.41	27.21	46.00	18.79
687.660	23.26	6.50	0.73	30.49	46.00	15.51
793.390	23.98	6.90	1.20	32.08	46.00	13.92
967.990	26.90	7.69	0.56	35.15	54.00	18.85

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10^{th} harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 26, 2004 Temperature： 21℃

EUT： FM Transmitter Humidity： 50%

Test Mode 1： EUT w/FM Antenna, Set On Lie
(Transmitting FM Radio Frequency 88.2MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.200	15.65	2.00	16.61	34.26	48.00	13.74
Fundamental Freq. (Peak Value)						
88.200	15.65	2.00	18.69	36.34	68.00	31.66
Unwanted Emission (Quasi-Peak Value)						
176.400	20.84	2.90	8.66	32.40	43.50	11.10
264.600	25.20	3.70	-0.28	28.62	46.00	17.38
352.800	15.82	4.30	5.12	25.24	46.00	20.76
441.000	17.40	5.30	-0.06	22.63	46.00	23.37
529.200	20.65	6.90	-1.09	26.47	46.00	19.53
617.400	21.26	6.30	-0.77	26.79	46.00	19.21
669.230	22.76	6.40	0.44	29.60	46.00	16.40
866.140	25.35	7.20	0.59	33.14	46.00	12.86
969.930	26.88	7.69	-0.53	34.04	54.00	19.96

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10th harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 26, 2004 Temperature： 21℃

EUT： FM Transmitter Humidity： 50%

Test Mode 2： EUT w/FM Antenna, Set On Side
(Transmitting FM Radio Frequency 88.2MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.200	15.57	2.00	18.44	36.01	48.00	11.99
Fundamental Freq. (Peak Value)						
88.200	15.57	2.00	21.13	38.70	68.00	29.30
Unwanted Emission (Quasi-Peak Value)						
176.400	21.21	2.90	11.39	35.49	43.50	8.01
264.600	24.62	3.70	2.25	30.57	46.00	15.43
352.800	15.55	4.30	8.18	28.04	46.00	17.96
441.000	17.59	5.40	-0.49	22.50	46.00	23.50
529.200	19.70	6.93	-0.36	26.27	46.00	19.73
676.020	22.89	6.40	0.40	29.68	46.00	16.32
873.900	25.37	7.30	0.48	33.15	46.00	12.85
966.050	26.89	7.70	0.23	34.83	54.00	19.17

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10^{th} harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 26, 2004 Temperature： 22℃

EUT： FM Transmitter Humidity： 50%

Test Mode 2： EUT w/FM Antenna, Set On Side
(Transmitting FM Radio Frequency 88.2MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.200	15.65	2.00	14.52	32.17	48.00	15.83
Fundamental Freq. (Peak Value)						
88.200	15.65	2.00	16.66	34.31	68.00	33.69
Unwanted Emission (Quasi-Peak Value)						
176.400	20.66	2.90	6.00	29.56	43.50	13.94
264.600	25.96	3.90	4.16	34.02	46.00	11.98
352.800	15.86	4.37	-0.68	19.55	46.00	26.45
441.000	17.40	5.30	-1.41	21.28	46.00	24.72
515.970	20.86	6.80	0.27	27.92	46.00	18.08
768.170	24.98	6.80	0.02	31.81	46.00	14.19
843.830	26.62	7.10	-0.45	33.27	46.00	12.73
967.990	26.97	7.69	0.37	35.03	54.00	18.97

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10^{th} harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 26, 2004 Temperature： 21℃

EUT： FM Transmitter Humidity： 50%

Test Mode 3： EUT w/FM Antenna, Set On Stand
(Transmitting FM Radio Frequency 88.2MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.200	15.57	2.00	19.16	36.73	48.00	11.27
Fundamental Freq. (Peak Value)						
88.200	15.57	2.00	22.12	39.69	68.00	28.31
Unwanted Emission (Quasi-Peak Value)						
176.400	21.21	2.90	11.08	35.19	43.50	8.31
264.600	24.62	3.70	1.64	29.96	46.00	16.04
352.800	15.64	4.30	-1.01	18.93	46.00	27.07
441.000	17.59	5.40	-0.11	22.88	46.00	23.12
569.320	21.17	6.50	0.54	28.21	46.00	17.79
700.270	23.46	6.50	-0.05	29.91	46.00	16.09
810.850	24.09	7.00	-0.18	30.91	46.00	15.09
863.230	26.09	7.20	-0.56	32.73	46.00	13.27

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10th harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 26, 2004 Temperature： 21℃

EUT： FM Transmitter Humidity： 50%

Test Mode 3： EUT w/FM Antenna, Set On Stand
(Transmitting FM Radio Frequency 88.2MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.200	15.65	2.00	16.96	34.61	48.00	13.39
Fundamental Freq. (Peak Value)						
88.200	15.65	2.00	19.29	36.94	68.00	31.06
Unwanted Emission (Quasi-Peak Value)						
176.400	20.66	2.90	9.91	33.47	43.50	10.03
264.600	26.04	3.70	0.41	30.15	46.00	15.85
352.800	15.76	4.40	-0.69	19.47	46.00	26.53
441.000	17.40	5.30	-0.17	22.52	46.00	23.48
501.420	19.91	6.52	0.86	27.29	46.00	18.71
529.200	20.22	6.90	-0.36	26.77	46.00	19.23
838.010	26.57	7.10	-0.57	33.10	46.00	12.90
959.260	27.16	7.60	0.17	34.93	46.00	11.07

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10^{th} harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 27, 2004 Temperature： 20℃

EUT： FM Transmitter Humidity： 58%

Test Mode 4： EUT w/FM Antenna, Set On Lie
(Transmitting FM Radio Frequency 88.6MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.600	15.57	2.00	21.34	38.91	48.00	9.09
Fundamental Freq. (Peak Value)						
88.600	15.57	2.00	24.37	41.94	68.00	26.06
Unwanted Emission (Quasi-Peak Value)						
177.200	21.24	2.90	12.66	36.80	43.50	6.70
265.800	24.74	3.70	5.88	34.32	46.00	11.68
354.400	15.90	4.40	-0.65	19.64	46.00	26.36
411.210	17.15	4.90	1.62	23.67	46.00	22.33
443.000	17.62	5.33	-0.37	22.58	46.00	23.42
480.080	18.68	6.05	8.28	33.01	46.00	12.99
850.620	25.63	7.10	0.77	33.50	46.00	12.50
966.050	26.89	7.70	0.35	34.95	54.00	19.05

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10th harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 27, 2004 Temperature： 20℃

EUT： FM Transmitter Humidity： 58%

Test Mode 4： EUT w/FM Antenna, Set On Lie
(Transmitting FM Radio Frequency 88.6MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.600	15.65	2.00	14.84	32.49	48.00	15.51
Fundamental Freq. (Peak Value)						
88.600	15.65	2.00	17.44	35.09	68.00	32.91
Unwanted Emission (Quasi-Peak Value)						
177.200	20.84	2.90	7.48	31.21	43.50	12.29
265.400	25.94	3.70	1.34	30.98	46.00	15.02
354.000	15.86	4.37	6.81	27.04	46.00	18.96
442.600	17.46	5.40	0.04	22.90	46.00	23.10
480.080	18.94	6.05	8.80	33.78	46.00	12.22
689.600	23.46	6.50	0.76	30.73	46.00	15.27
837.040	26.47	7.10	-0.59	32.98	46.00	13.02
973.810	26.71	7.70	0.71	35.12	54.00	18.88

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10th harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 27, 2004 Temperature： 20℃

EUT： FM Transmitter Humidity： 58%

Test Mode 5： EUT w/FM Antenna, Set On Lie
(Transmitting FM Radio Frequency 88.8MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.800	15.57	2.00	20.71	38.28	48.00	9.72
Fundamental Freq. (Peak Value)						
88.800	15.57	2.00	23.60	41.17	68.00	26.83
Unwanted Emission (Quasi-Peak Value)						
177.600	21.28	2.90	12.66	36.84	43.50	6.66
240.490	23.10	3.40	4.86	31.36	46.00	14.64
266.400	24.74	3.70	6.90	35.34	46.00	10.66
355.200	15.72	4.40	-0.72	19.40	46.00	26.60
444.000	17.59	5.40	-0.37	22.62	46.00	23.38
480.080	18.68	6.05	8.92	33.65	46.00	12.35
691.540	23.22	6.50	0.60	30.31	46.00	15.69
980.600	25.74	7.70	0.80	34.24	54.00	19.76

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10th harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

Date of Test： Oct. 27, 2004 Temperature： 20℃

EUT： FM Transmitter Humidity： 58%

Test Mode 5： EUT w/FM Antenna, Set On Lie
(Transmitting FM Radio Frequency 88.8MHz)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Fundamental Freq. (Average Value)						
88.800	15.65	2.00	14.94	32.59	48.00	15.41
Fundamental Freq. (Peak Value)						
88.800	15.65	2.00	17.97	35.62	68.00	32.38
Unwanted Emission (Quasi-Peak Value)						
177.600	21.00	2.90	8.17	32.07	43.50	11.43
233.700	24.84	3.38	0.35	28.56	46.00	17.44
266.400	25.62	3.70	1.22	30.54	46.00	15.46
355.200	15.86	4.37	5.66	25.89	46.00	20.11
444.000	17.44	5.40	0.64	23.48	46.00	22.52
480.080	18.94	6.05	5.90	30.88	46.00	15.12
689.600	23.46	6.50	0.90	30.87	46.00	15.13
873.900	25.19	7.30	1.00	33.49	46.00	12.51

Remark ： 1. Emission Level = Antenna Factor + Cable Loss + Reading.
2. Measurement was up to 10th harmonics (from fundamental frequency), but the emissions level were too low against the official limit and not reported.

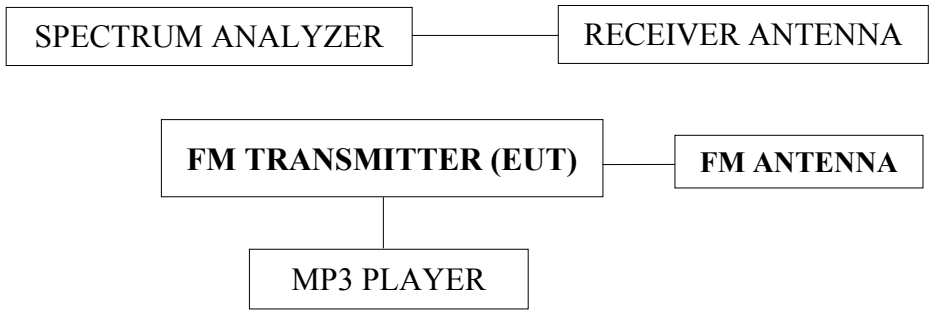
4. 26dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug.27, 04'	Aug.26, 05'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.239)

The 26dB bandwidth of fundamental emission from the intentional radiator shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88.2-88.8MHz.

4.4. EUT's Configuration during Compliance Measurement

The configuration of EUT were same as section 3.4.

4.5. 26dB Bandwidth Measurement Results

PASSED. The graph of bandwidth measured is attached in next pages.
(Remark: –26dB below the peak level to measure)

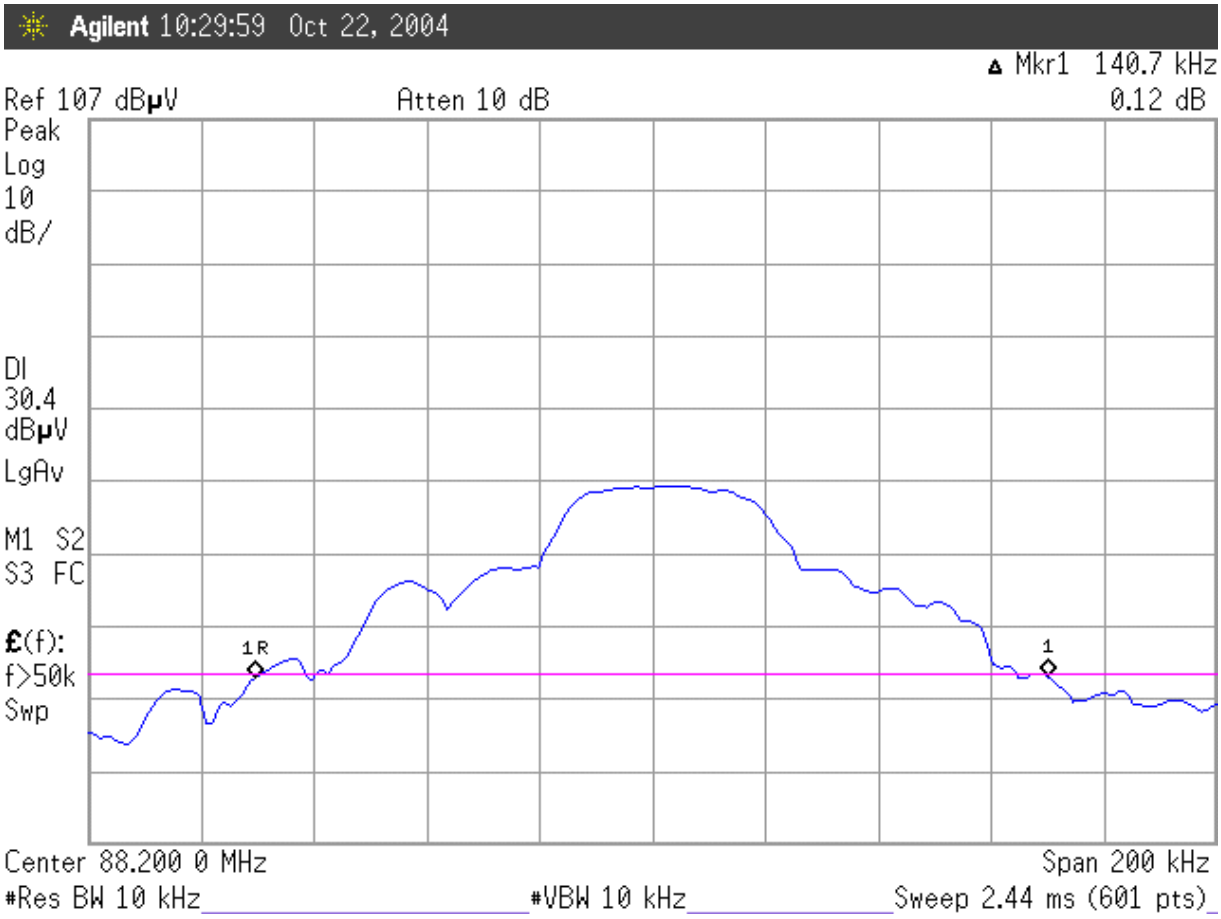
Date of Test：Oct. 22, 2004 Temperature：23℃ Humidity：51%

Mode	Center Frequency	**26dB Bandwidth**	Limits
1.	88.2000MHz	**140.7kHz**	200kHz
2.	88.6000MHz	**124.0kHz**	200kHz
3.	88.8000MHz	**137.0kHz**	200kHz

Remark: The lowest frequency is 88.12965MHz and the highest frequency is 88.8685MHz.

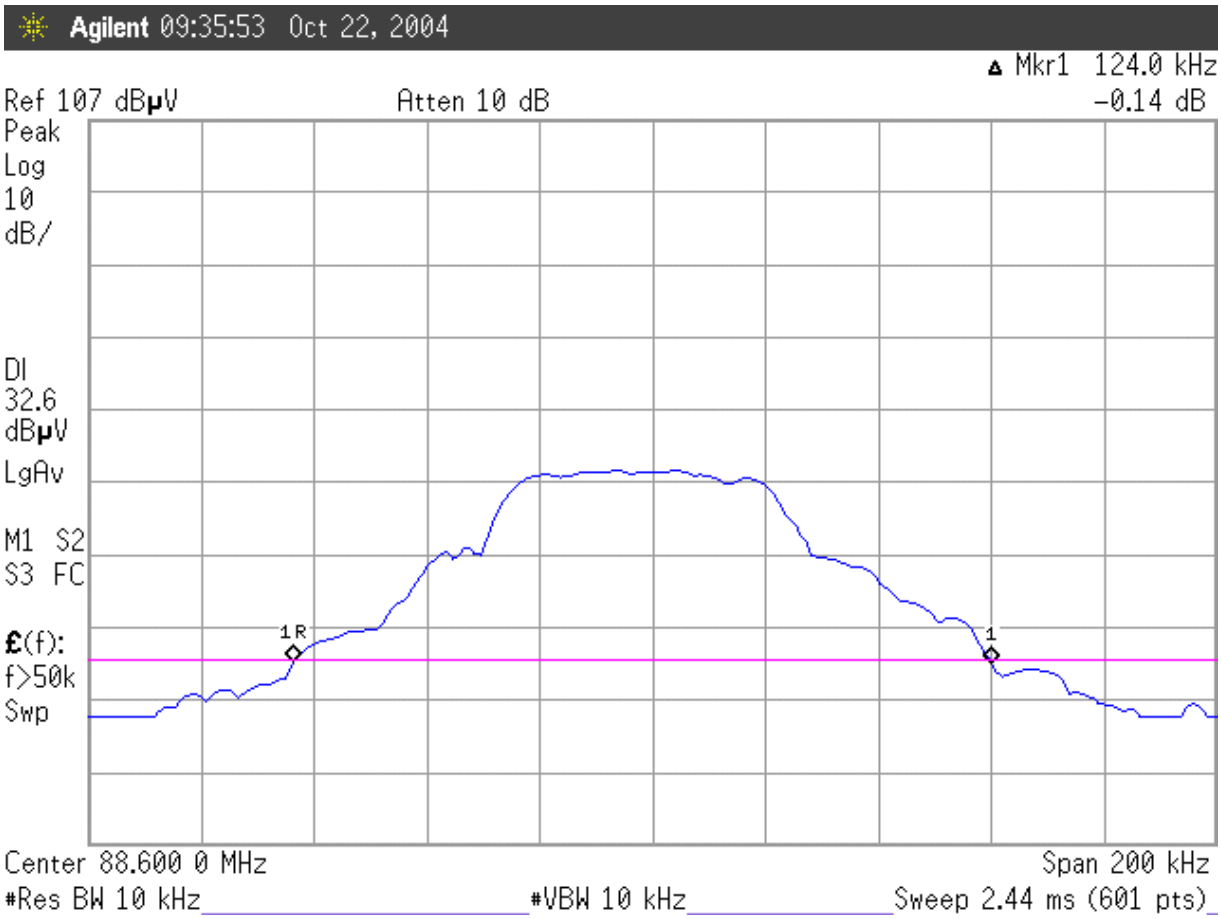
(Graph of Bandwidth Measurement)

Center Frequency 88.2000MHz, 26dB Bandwidth: 140.7kHz



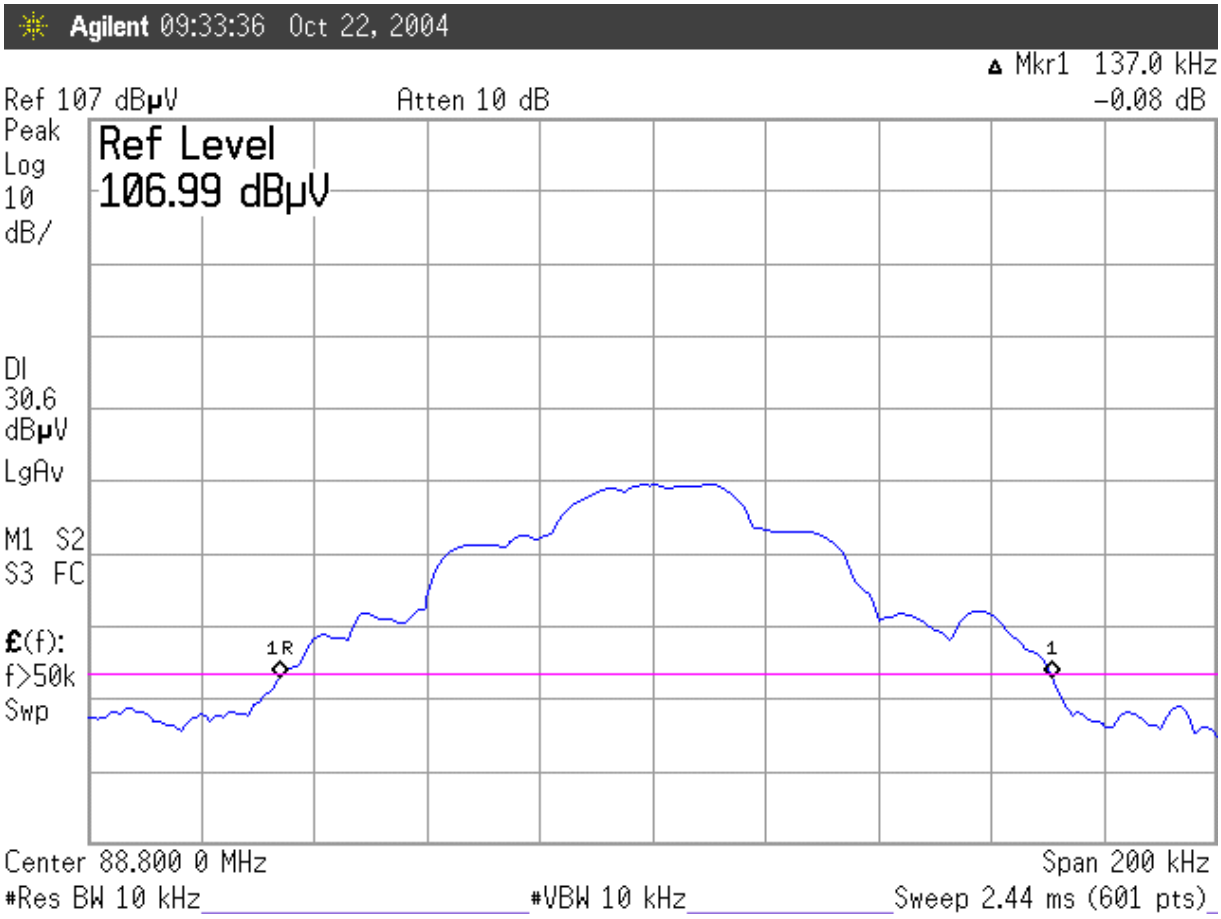
(Graph of Bandwidth Measurement)

Center Frequency 88.6000MHz, 26dB Bandwidth: 124.0kHz



(Graph of Bandwidth Measurement)

Center Frequency 88.8000MHz, 26dB Bandwidth: 137.0kHz



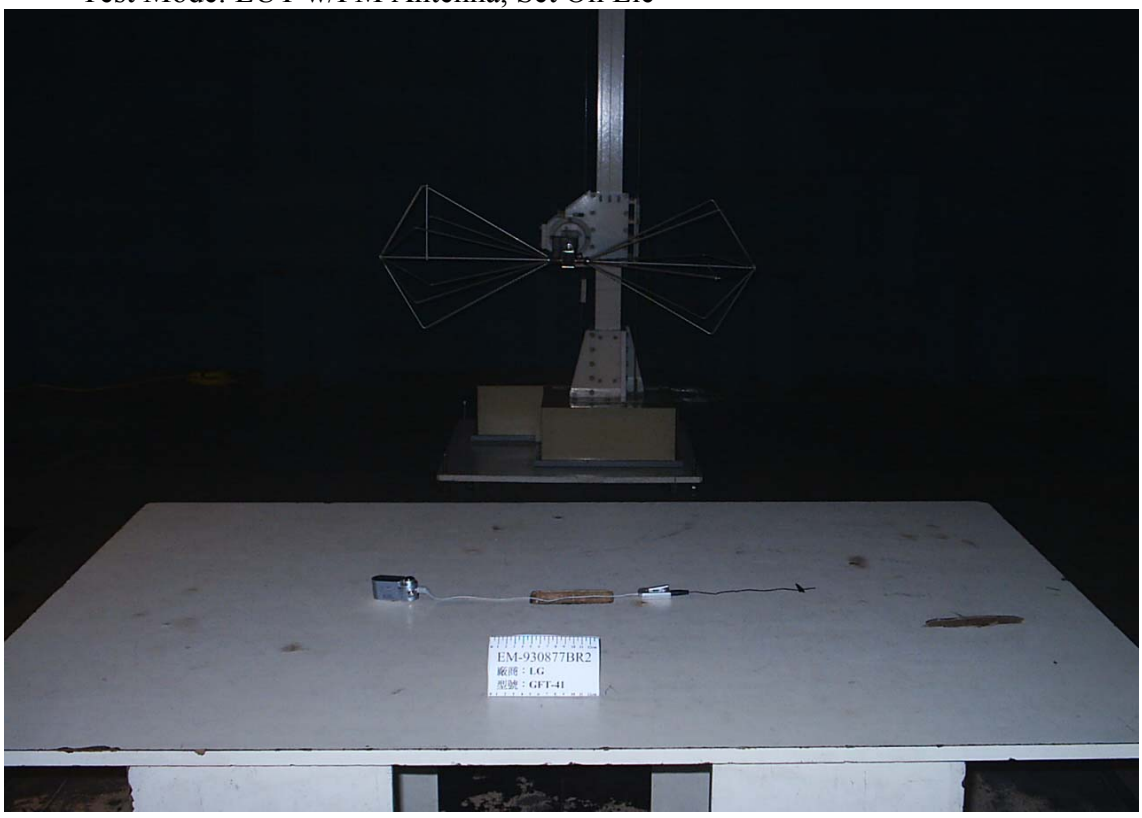
5. DEVIATION TO TEST SPECIFICATIONS

【NONE】

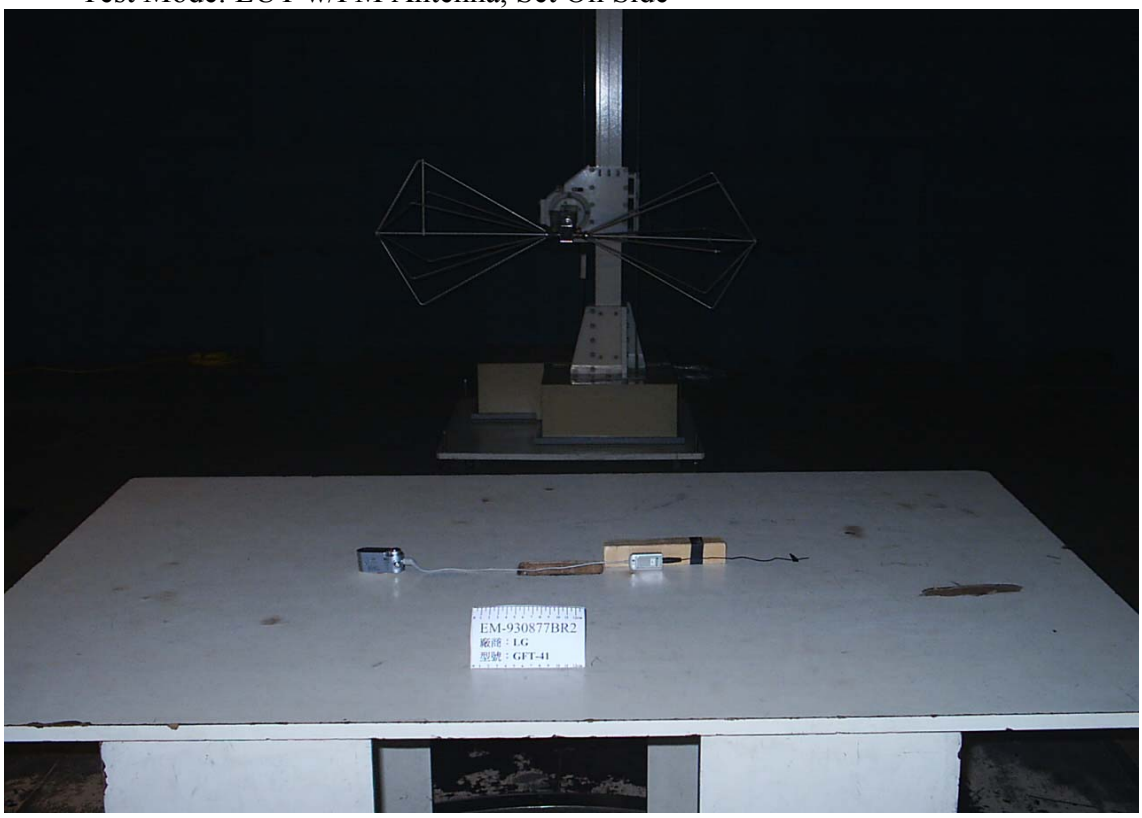
6. PHOTOGRAPHS

6.1. Photos of Radiated Emission Measurement at Semi-Anechoic Chamber

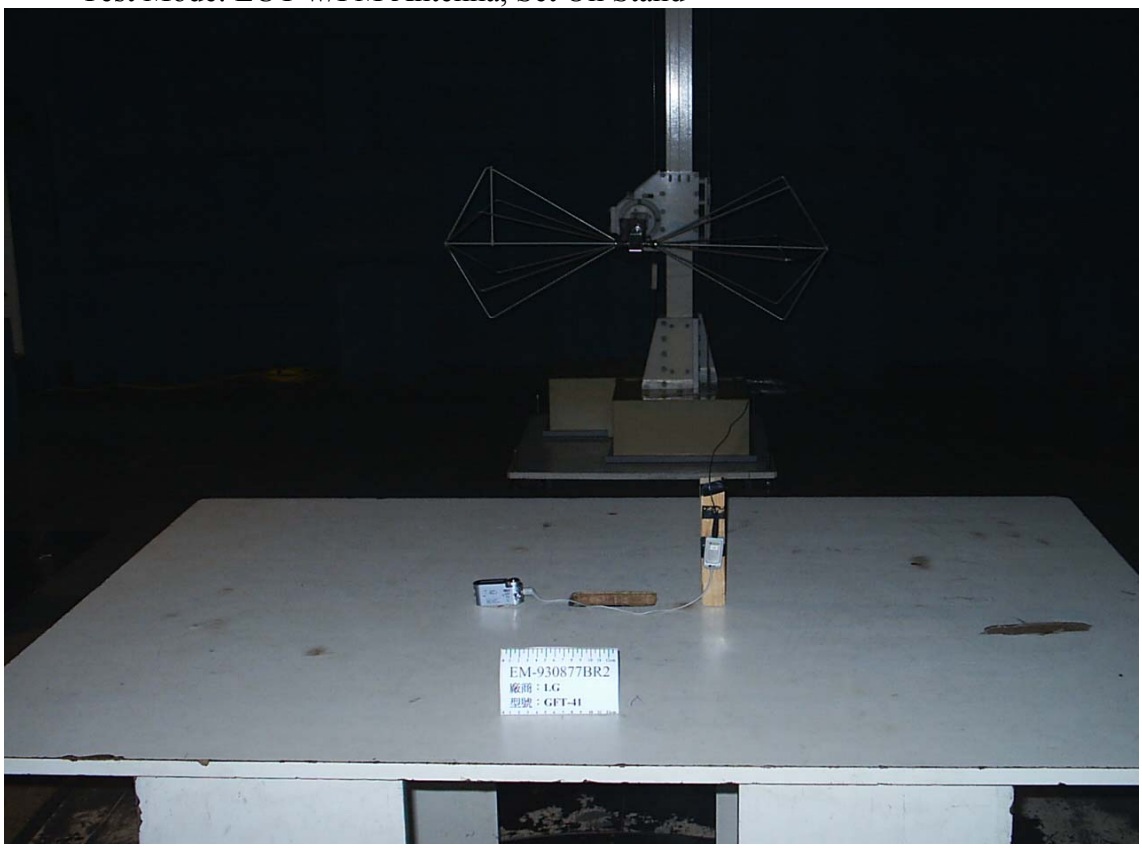
Test Mode: EUT w/FM Antenna, Set On Lie



Test Mode: EUT w/FM Antenna, Set On Side



Test Mode: EUT w/FM Antenna, Set On Stand



6.2. Photos of Bandwidth Measurement