

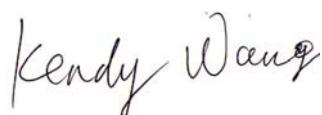
Test Report of FCC Part 15 C for FCC Certificate
On Behalf of
Pro Tv Development Inc.

FCC ID: W66-8553T
Product Description: VIDEO DOORBELL
Model No.: 8553
Supplementary Model No.: N/A

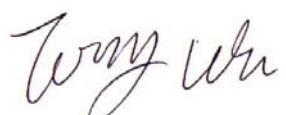
Prepared for: **Pro Tv Development Inc.**
11F-1, No.15, Sec.4, CHUNG HSIAO E RD., TAIPEI, TAIWAN

Prepared by: **Bontek Compliance Testing Laboratory Ltd.**
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Report No.: BCT11HR-1205E-1
Issue Date: September 7, 2011
Test Date: September 1~6, 2011

Test by: **Reviewed By:**



Kendy Wang



Tony Wu

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1. GENERAL INFORMATION

1.1 Client Information

Applicant: **Pro Tv Development Inc.**
Address of applicant: 11F-1, No.15, Sec.4, CHUNG HSIAO E RD., TAIPEI,
TAIWAN
Manufacturer: **Foshan Shunde Alford Electronics Co.,Ltd.**
Address of manufacturer: Xinjiao Industrial Park, Daliang, Shunde, Foshan City
Guangdong Province, China

General Description of E.U.T

| Items | Description |
|--------------------------|----------------------------|
| EUT Description: | VIDEO DOORBELL |
| Trade Name: | N/A |
| Model No.: | 8553 |
| Supplementary Model No.: | N/A |
| Frequency Band: | 2410.875 MHz ~ 2471.625MHz |
| Number of Channels: | 19 |
| Channel Separation: | 3.375MHz |
| Rated Voltage: | 6V DC from battery |

* The test data gathered are from the production sample provided by the manufacturer.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2009.

The tests were performed in order to determine compliance with Section 15.107 and 15.109 under the FCC Rules Part 15 Subpart B and Section 15.207, 15.209, 15.249 under the FCC Rules Part 15 Subpart C.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

All measurement required was performed at laboratory of Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China.

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 338263

Bontek Compliance Testing Laboratory Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March, 2008.

IC Registration No.: 7631A

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on August 2009.

The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

CNAS - Registration No.: L3923

Bontek Compliance Testing Laboratory Ltd. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration:L3923,February,2009.

TUV - Registration No.: UA 50203122-001

Bontek Compliance Testing Laboratory Ltd. An assessment of the laboratory was conducted according to the"Procedures and Conditions for EMC Test Laboratories"with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-002.

2. SYSTEM TEST CONFIGURATION

The tests documented in this report were performed in accordance with ANSI C63.4-2009 and FCC CFR 47 Part 15 Subpart C.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous transmitting application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode. But the EUT is powered by DC 6V of battery, this test is not applicable.

Radiated Emissions The EUT is placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 List of Measuring Equipments

Test equipments list of Shenzhen Bontek Electronic Technology Co.,Ltd.

| No. | Equipment | Manufacturer | Model No. | S/N | Calibration Date | Calibration Due Date |
|-----|--|-----------------|----------------------------|----------------|------------------|----------------------|
| 1 | EMI Test Receiver | R&S | ESCI | 100687 | 2011-4-07 | 2012-4-06 |
| 2 | EMI Test Receiver | R&S | ESPI | 100097 | 2011-4-07 | 2012-4-06 |
| 3 | Amplifier | HP | 8447D | 1937A02492 | 2011-4-07 | 2012-4-06 |
| 4 | Single Power Conductor Module | FCC | FCC-LISN-5-50-1-01-CISPR25 | 7101 | 2011-4-07 | 2012-4-06 |
| 5 | Single Power Conductor Module | FCC | FCC-LISN-5-50-1-01-CISPR25 | 7102 | 2011-4-07 | 2012-4-06 |
| 6 | Power Clamp | SCHWARZBECK | MDS-21 | 3812 | 2011-4-07 | 2012-4-06 |
| 7 | Positioning Controller | C&C | CC-C-1F | MF7802113 | N/A | N/A |
| 8 | Electrostatic Discharge Simulator | TESEQ | NSG437 | 125 | 2011-4-07 | 2012-4-06 |
| 9 | Fast Transient Burst Generator | SCHAFFNER | MODULA6150 | 34572 | 2011-4-07 | 2012-4-06 |
| 10 | Fast Transient Noise Simulator | Noiseken | FNS-105AX | 31485 | 2011-4-07 | 2012-4-06 |
| 11 | Color TV Pattern Generator | PHILIPS | PM5418 | TM209947 | N/A | N/A |
| 12 | Power Frequency Magnetic Field Generator | EVERFINE | EMS61000-8K | 608002 | 2011-4-07 | 2012-4-06 |
| 14 | Capacitive Coupling Clamp | TESEQ | CDN8014 | 25096 | 2011-4-07 | 2012-4-06 |
| 15 | High Field Biconical Antenna | ELECTRO-METRICS | EM-6913 | 166 | 2010-4-14 | 2012-4-13 |
| 16 | Log Periodic Antenna | ELECTRO-METRICS | EM-6950 | 811 | 2010-4-14 | 2012-4-13 |
| 17 | Remote Active Vertical Antenna | ELECTRO-METRICS | EM-6892 | 304 | 2010-4-14 | 2012-4-13 |
| 18 | TRILOG Broadband Test-Antenna | SCHWARZBECK | VULB9163 | 9163-324 | 2010-4-14 | 2012-4-13 |
| 19 | Horn Antenna | SCHWARZBECK | BBHA9120A | B08000991-0001 | 2010-4-14 | 2012-4-13 |
| 20 | Teo Line Single Phase Module | SCHWARZBECK | NSLK8128 | D-69250 | 2011-4-07 | 2012-4-06 |
| 21 | 10dB attenuator | SCHWARZBECK | MTAIMP-136 | R65.90.0001#06 | 2011-4-07 | 2012-4-06 |
| 22 | Electric bridge | Zentech | 100 LCR METER | 803024 | N/A | N/A |

| | | | | | | |
|----|--------------------------------|---------------------|-------------|--------------|-----------|-----------|
| 23 | RF Current Probe | FCC | F-33-4 | 80 | 2011-4-07 | 2012-4-06 |
| 24 | Triple-Loop Antenna | EVERFINE | LLA-2 | 607004 | 2011-4-07 | 2012-4-06 |
| 25 | CDN | FRANKONIA | M2+M3 | A3027019 | 2011-4-07 | 2012-4-06 |
| 26 | 6dB Attenuator | FRANKONIA | 75-A-FFN-06 | 1001698 | 2011-4-07 | 2012-4-06 |
| 27 | EMV-Mess-Systeme GMBH | FRANKONIA | FLL-75 | 1020A1109 | 2011-4-07 | 2012-4-06 |
| 28 | EM Injection Clamp | FCC | F-203I-13mm | 91536 | 2011-4-07 | 2012-4-06 |
| 29 | 9KHz-2.4GHz Signal generator | MARCONI INSTRUMENTS | 2024 | 112260/042 | 2011-4-07 | 2012-4-06 |
| 30 | Broadband Preamplifier | SCHWARZBECK | BBV 9718 | 9718-182 | 2011-4-07 | 2012-4-06 |
| 31 | Harmonics& Flicker Analyser | Voltech | PM6000 | AFC-150 | 2011-4-07 | 2012-4-06 |
| 32 | Spectrum Analyzer | R&S | FSP30 | 1093.4495.30 | 2011-4-07 | 2012-4-06 |
| 33 | Temperature & Humidity Chamber | TOPSTAT | TOS-831A | 3438A05208 | 2011-4-07 | 2012-4-06 |

3. SUMMARY OF TEST RESULTS

| EUT Fundamental Frequency | FCC Rules | Description of Test | Result |
|--------------------------------|-----------|--|-----------------------|
| 2.410.875~ 2.471.625 GHz | 15.207 | Disturbance Voltage at The Mains Terminals | N/A , without AC main |
| | 15.249 | Band Edges Measurement | Pass |
| | 15.249 | Spurious Emission | Pass |
| | 15.203 | Antenna Requirement | Pass |

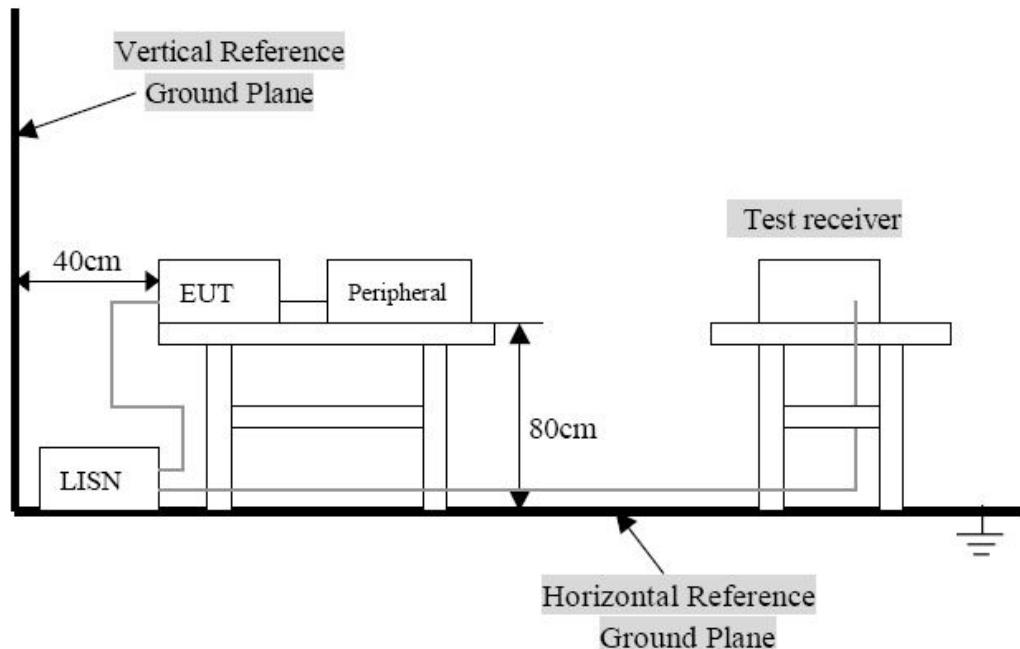
4. TEST OF CONDUCTED EMISSION

4.1 Applicable Standard

Section 15.207: For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

| Frequency Range (MHz) | Limits (dBuV) | |
|-----------------------|----------------|---------|
| | Quasi-Peak | Average |
| 0.150~0.500 | 66~56 | 56~46 |
| 0.500~5.000 | 56 | 46 |
| 5.000~30.00 | 60 | 50 |

4.2 Test Setup Diagram



Remark: 1. The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC 15.207 limits.

2. The EUT was charged on the base, and the base was connected to a 120 VAC/ 60Hz power source.

Notes: The EUT is powered by DC 6V from battery without AC mains, this test is unapplicable.

5. BAND EDGES MEASUREMENT

5.1 Limit of Band Edges Measurement

1. In the above emission table, the tighter limit applies at the band edges.
2. As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$ at 3-meter) | Field Strength ($\text{dB}\mu\text{V/m}$ at 3-meter) |
|-----------------|--|---|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

5.2 EUT Setup

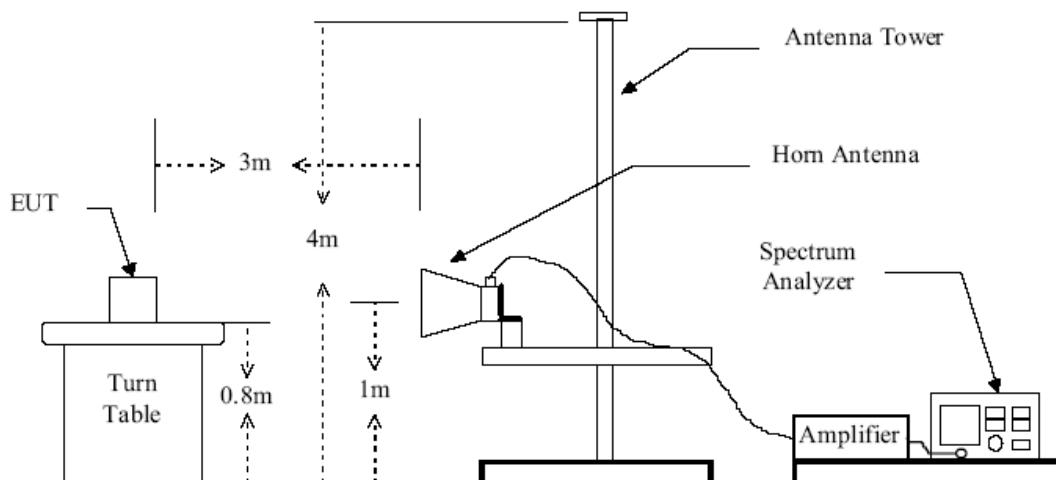


Figure 2 : Frequencies measured above 1 GHz configuration

5.3 Test Procedure

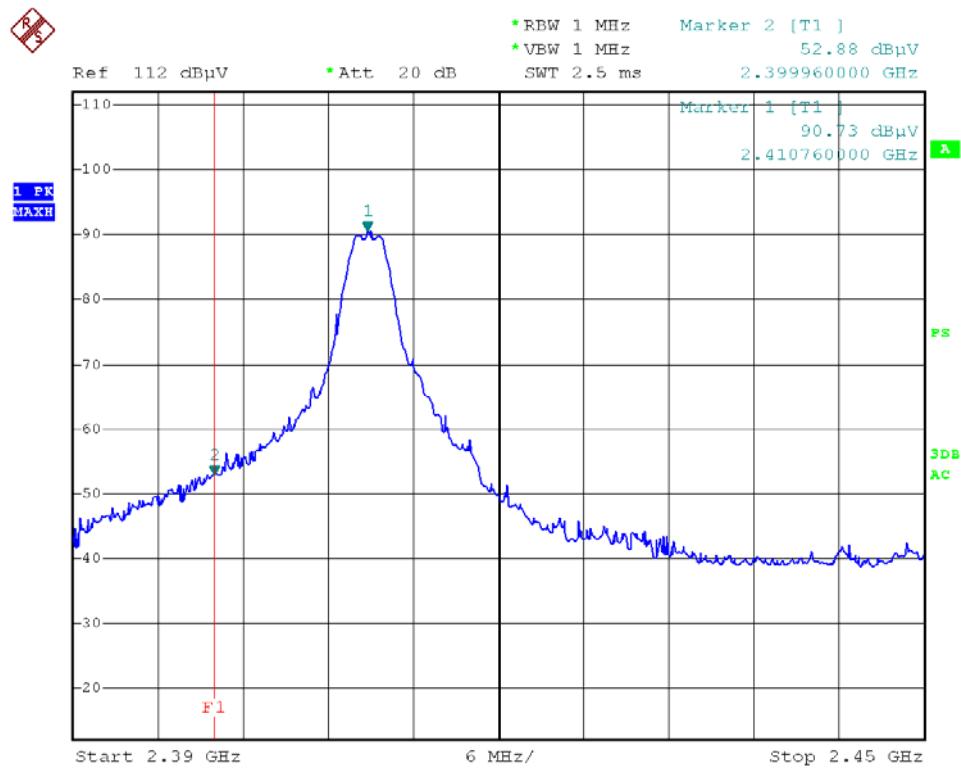
Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

- 1). Configure the EUT according to ANSI C63.4:2009.
- 2). The EUT was placed on the top of the turntable 0.8 meter above ground.
- 3). The receiving antenna was placed 3 meters far away from the turntable.
- 4). The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 5). The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

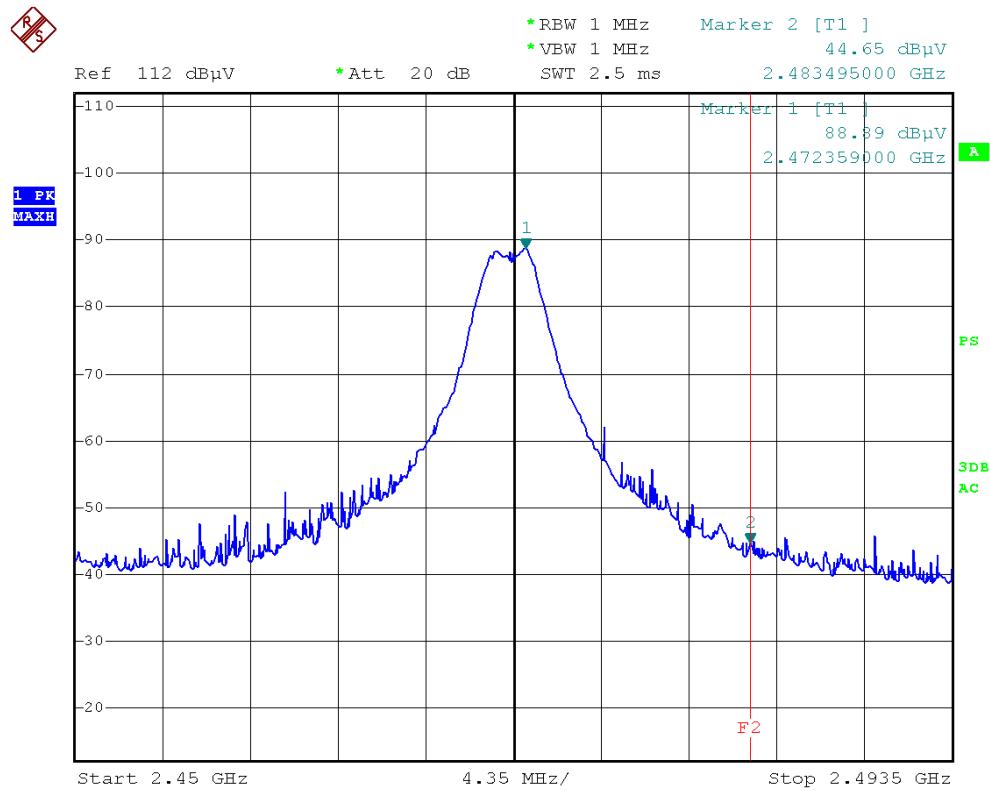
5.4 Test Result

| | |
|--|--|
| Temperature (°C) : 22~23 | EUT: VIDEO DOORBELL |
| Humidity (%RH): 50~54 | M/N: 8553 |
| Barometric Pressure (mbar): 950~1000 | Operation Condition: Continuous transmitting |

Low Channel (2.41076GHz):



High Channel (2.472359GHz):



6. SPURIOUS EMISSIONS

6.1 Limit of Spurious Emissions

1. In the section 15.249(a): Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:
2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Fundamental Frequency (MHz) | Field Strength of Fundamental Field Strength (mV/m) | Field Strength of Harmonics (μmV/m) |
|-----------------------------|---|-------------------------------------|
| 902-928 MHz | 50 | 500 |
| 2400 - 2483.5 MHz | 50 | 500 |
| 5725 - 5875 MHz | 50 | 500 |
| 24.0 - 24.25 GHz | 250 | 2500 |

| Frequency (MHz) | Field Strength (μV/m) | Measurement Distance (m) |
|-----------------|-----------------------|--------------------------|
| 30-88 | 100* | 3 |
| 88-216 | 150* | 3 |
| 216-960 | 200* | 3 |
| Above 960 | 500 | 3 |

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

| Frequency (MHz) | Field Strength (μV/m at 3-meter) | Field Strength (dBμV/m at 3-meter) |
|-----------------|----------------------------------|------------------------------------|
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

6.2 EUT Setup

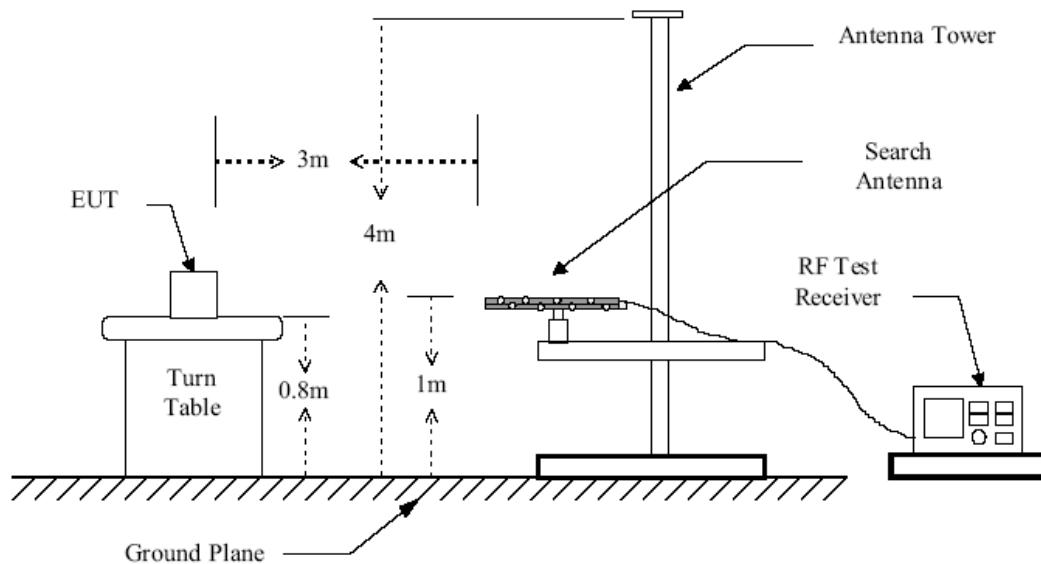


Figure 1 : Frequencies measured below 1 GHz configuration

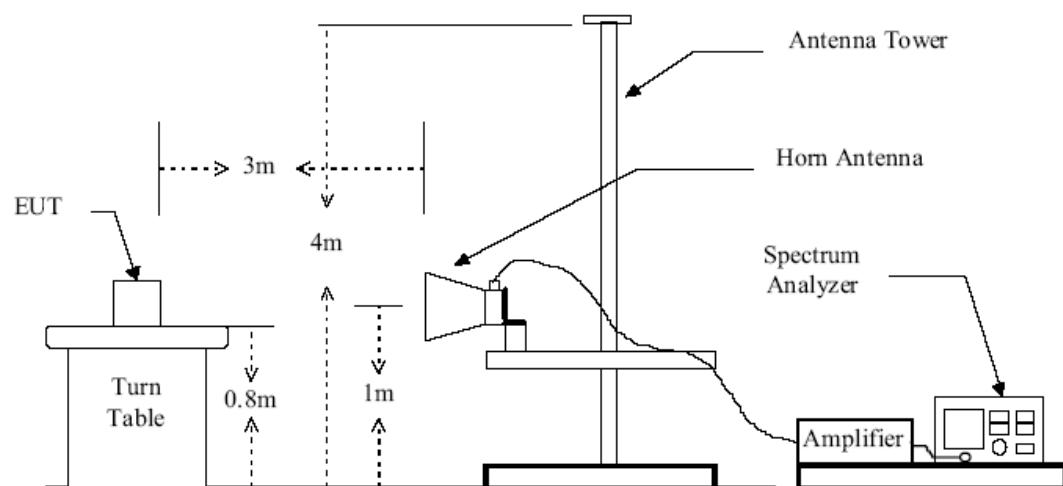


Figure 2 : Frequencies measured above 1 GHz configuration

6.3 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

- 1). Configure the EUT according to ANSI C63.4:2009.
- 2). The EUT was placed on the top of the turntable 0.8 meter above ground.
- 3). The receiving antenna was placed 3 meters far away from the turntable.
- 4). The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 5). The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

6.4 Spurious Emissions Test Result

| | |
|--|--|
| Temperature (°C) : 22~23 | EUT: VIDEO DOORBELL |
| Humidity (%RH): 50~54 | M/N: 8553 |
| Barometric Pressure (mbar): 950~1000 | Operation Condition: Continuous transmitting |

Note: In this testing, the EUT was respectively tested in three different orientations. That is:

- (1) EUT was lie vertically, and then its Antenna oriented upward
- (2) EUT was lie vertically, and then its Antenna oriented downward
- (3) EUT was lie flatwise, and then its Antenna oriented to the receiving antenna

The worst test data see following pages

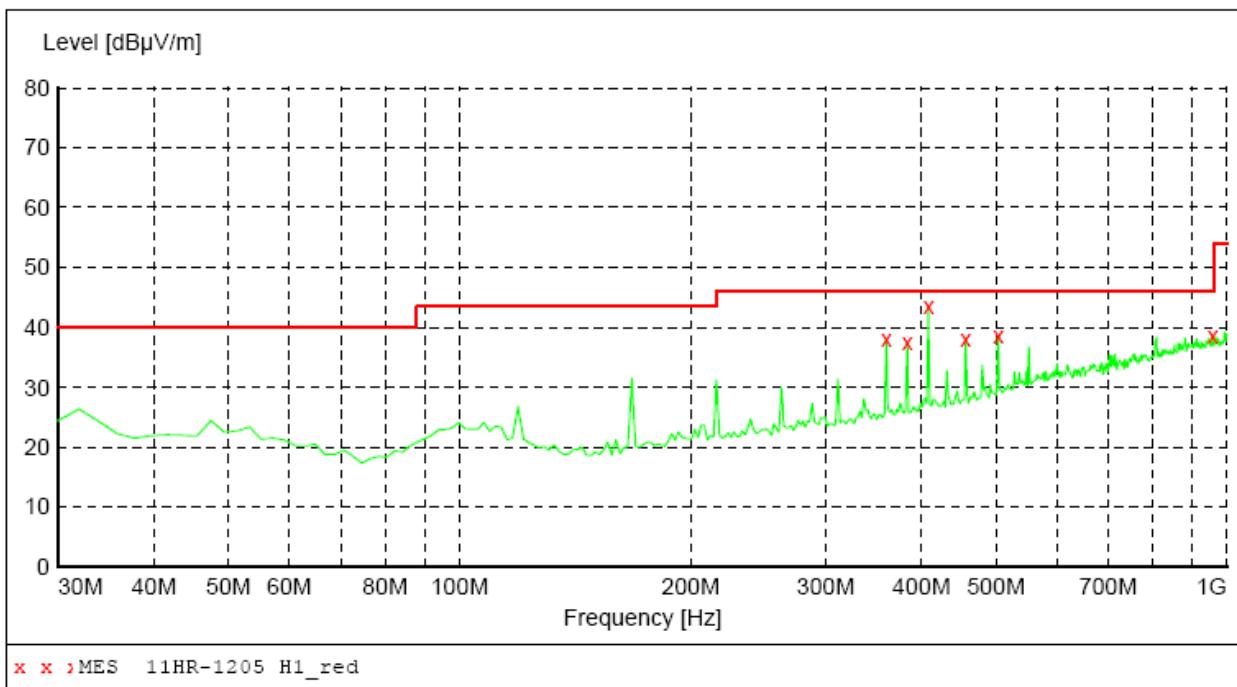
When the EUT was lie flatwise, and its Antenna oriented to the receiving antenna, the worst test data was got as following pages

The worst Spurious Emission Data Below 1GHz:

EUT: VIDEO DOORBELL
 M/N: 8553
 Operating Condition: Continuous transmitting
 Test Site: 3m CHAMBER
 Operator: Chen
 Test Specification: DC 6V
 Comment: Polarization: Horizontal
 Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"

| Short Description: | | Field Strength | | | |
|--------------------|----------------|----------------|---------|---------|--------------|
| Start Frequency | Stop Frequency | Detector | Meas. | IF | Transducer |
| 30.0 MHz | 1.0 GHz | MaxPeak | Coupled | 100 kHz | VULB9163 NEW |



MEASUREMENT RESULT: "11HR-1205 H1_red"

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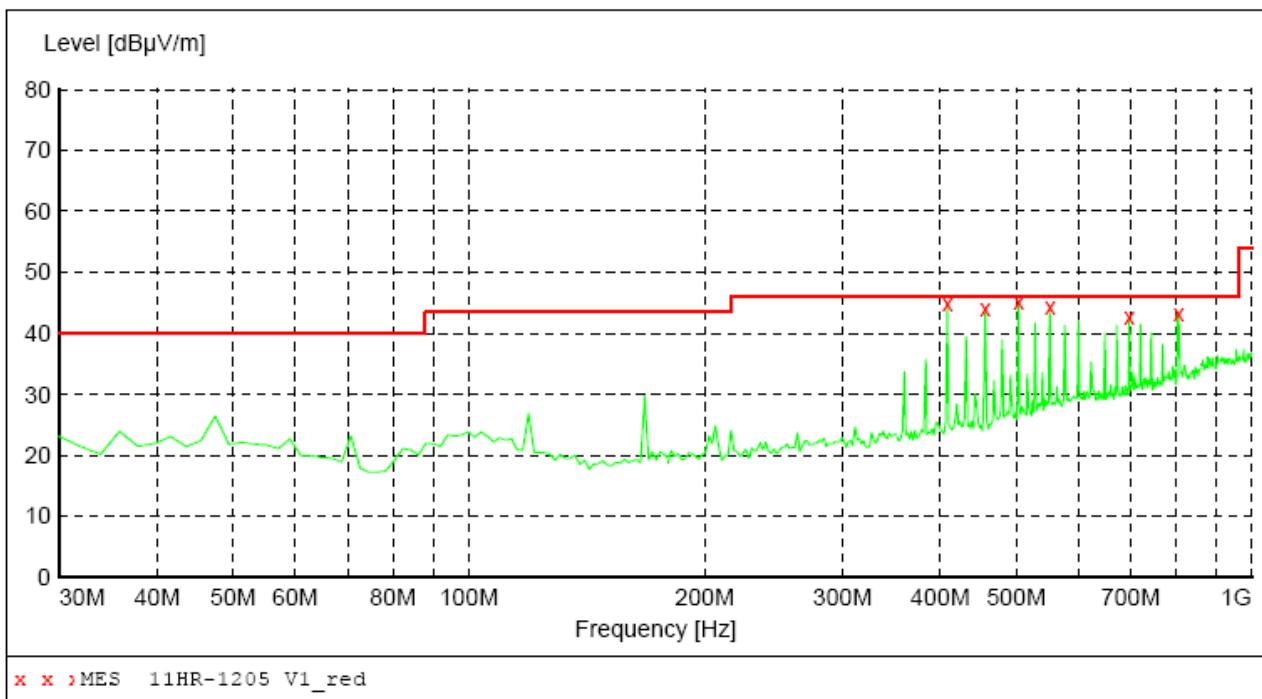
| Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. QP | Height cm | Azimuth deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|------------|--------------|----------------|--------------|
| 359.800000 | 38.00 | 20.6 | 46.0 | 8.0 | QP | 100.0 | 0.00 | HORIZONTAL |
| 383.080000 | 37.60 | 21.0 | 46.0 | 8.4 | QP | 100.0 | 0.00 | HORIZONTAL |
| 408.300000 | 43.50 | 21.7 | 46.0 | 2.5 | QP | 100.0 | 0.00 | HORIZONTAL |
| 456.800000 | 38.20 | 22.2 | 46.0 | 7.8 | QP | 100.0 | 0.00 | HORIZONTAL |
| 503.360000 | 38.70 | 23.9 | 46.0 | 7.3 | QP | 100.0 | 0.00 | HORIZONTAL |
| 957.320000 | 38.70 | 31.9 | 46.0 | 7.3 | QP | 100.0 | 0.00 | HORIZONTAL |

The worst Spurious Emission Data Below 1GHz:

EUT: VIDEO DOORBELL
 M/N: 8553
 Operating Condition: Continuous transmitting
 Test Site: 3m CHAMBER
 Operator: Chen
 Test Specification: DC 6V
 Comment: Polarization: Vertical
 Tem:25°C Hum:50%

SWEET TABLE: "test (30M-1G)"

| Short Description: | | Field Strength | | | |
|--------------------|----------------|----------------|---------|---------|--------------|
| Start Frequency | Stop Frequency | Detector | Meas. | IF Time | Transducer |
| 30.0 MHz | 1.0 GHz | MaxPeak | Coupled | 100 kHz | VULB9163 NEW |



MEASUREMENT RESULT: "11HR-1205 V1_red"

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| Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. QP | Height cm | Azimuth deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|------------|--------------|----------------|--------------|
| 408.300000 | 45.10 | 21.7 | 46.0 | 0.9 | QP | 100.0 | 0.00 | VERTICAL |
| 456.800000 | 44.30 | 22.2 | 46.0 | 1.7 | QP | 100.0 | 0.00 | VERTICAL |
| 503.360000 | 45.60 | 23.9 | 46.0 | 0.4 | QP | 100.0 | 0.00 | VERTICAL |
| 551.860000 | 44.50 | 25.2 | 46.0 | 1.5 | QP | 100.0 | 0.00 | VERTICAL |
| 697.360000 | 42.90 | 27.6 | 46.0 | 3.1 | QP | 100.0 | 0.00 | VERTICAL |
| 806.000000 | 43.40 | 29.6 | 46.0 | 2.6 | QP | 100.0 | 0.00 | VERTICAL |

Spurious Emission test data above 1G

| Maximum Frequency (MHz) | Channel Low | | | | | Limit (dB μ V/m) | Margin (dB μ V/m) | Mark (P/Q/A) | | | |
|-------------------------|--------------------|------------|--------------------|--------|---------------------|----------------------|-----------------------|--------------|--|--|--|
| | Polarity and Level | | | | | | | | | | |
| | Polarity | Height (m) | Reading dB μ V | Transd | Result dB μ V/m | | | | | | |
| 4821.73 | H | 1.00 | 23.8 | 24.2 | 48.0 | 74.0 | 26.0 | P | | | |
| | | | 19.5 | 24.2 | 43.7 | 54.0 | 10.3 | A | | | |
| 4821.73 | V | 1.00 | 25.1 | 24.2 | 49.3 | 74.0 | 24.7 | P | | | |
| | | | 21.5 | 24.4 | 45.9 | 54.0 | 8.1 | A | | | |
| 7232.60 | H | 1.00 | 24.0 | 24.8 | 48.8 | 74.0 | 25.2 | P | | | |
| | | | 20.3 | 24.8 | 45.1 | 54.0 | 8.9 | A | | | |
| 7232.60 | V | 1.00 | 25.2 | 24.8 | 50 | 74.0 | 24.0 | P | | | |
| | | | 21.7 | 24.8 | 46.5 | 54.0 | 7.5 | A | | | |
| 9643.31 | H | 1.00 | 22.2 | 25.1 | 47.3 | 74.0 | 26.7 | P | | | |
| | | | 16.8 | 25.1 | 41.9 | 54.0 | 12.1 | A | | | |
| 9643.31 | V | 1.00 | 22.3 | 25.1 | 47.4 | 74.0 | 26.6 | P | | | |
| | | | 19.1 | 25.1 | 44.2 | 54.0 | 9.8 | A | | | |
| 12054.19 | --- | --- | --- | --- | --- | --- | --- | --- | | | |
| 14464.99 | --- | --- | --- | --- | --- | --- | --- | --- | | | |
| 16875.84 | --- | --- | --- | --- | --- | --- | --- | --- | | | |
| 19286.71 | --- | --- | --- | --- | --- | --- | --- | --- | | | |
| 21697.59 | --- | --- | --- | --- | --- | --- | --- | --- | | | |
| 24108.47 | --- | --- | --- | --- | --- | --- | --- | --- | | | |

Remark: 1. Transd.=Antenna Factor+Cable Loss+Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

2. Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
4. The test limit distance is 3m limit

| Channel Mid | | | | | | | | |
|-------------------------|--------------------|------------|--------------------|--------|---------------------|----------------------|-----------------------|--------------|
| Maximum Frequency (MHz) | Polarity and Level | | | | | Limit (dB μ V/m) | Margin (dB μ V/m) | Mark (P/Q/A) |
| | Polarity | Height (m) | Reading dB μ V | Transd | Result dB μ V/m | | | |
| 4882.48 | H | 1.00 | 24.2 | 24.3 | 48.5 | 74.0 | 25.5 | P |
| | | | 19.1 | 24.3 | 43.4 | 54.0 | 10.6 | A |
| 4882.48 | V | 1.00 | 24.6 | 24.3 | 48.9 | 74.0 | 25.1 | P |
| | | | 20.4 | 24.3 | 44.7 | 54.0 | 9.3 | A |
| 7323.72 | H | 1.00 | 25.8 | 24.8 | 50.6 | 74.0 | 23.4 | P |
| | | | 19.3 | 24.8 | 44.1 | 54.0 | 9.9 | A |
| 7323.72 | V | 1.00 | 26.3 | 24.8 | 51.1 | 74.0 | 22.9 | P |
| | | | 22.7 | 24.8 | 47.5 | 54.0 | 6.5 | A |
| 9764.95 | H | 1.00 | 18.7 | 25.0 | 43.7 | 74.0 | 30.3 | P |
| | | | 18.8 | 25.0 | 43.8 | 54.0 | 10.2 | A |
| 9764.95 | V | 1.00 | 19.3 | 25.0 | 44.3 | 74.0 | 29.7 | P |
| | | | 16.9 | 25.0 | 41.9 | 54.0 | 12.1 | A |
| 12206.19 | --- | --- | --- | --- | --- | --- | --- | --- |
| 14647.42 | --- | --- | --- | --- | --- | --- | --- | --- |
| 17088.64 | --- | --- | --- | --- | --- | --- | --- | --- |
| 19529.91 | --- | --- | --- | --- | --- | --- | --- | --- |
| 21971.15 | --- | --- | --- | --- | --- | --- | --- | --- |
| 24412.39 | --- | --- | --- | --- | --- | --- | --- | --- |

Remark: 1. Transd.=Antenna Factor+Cable Loss+Pre-amplifier

Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

2. Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.

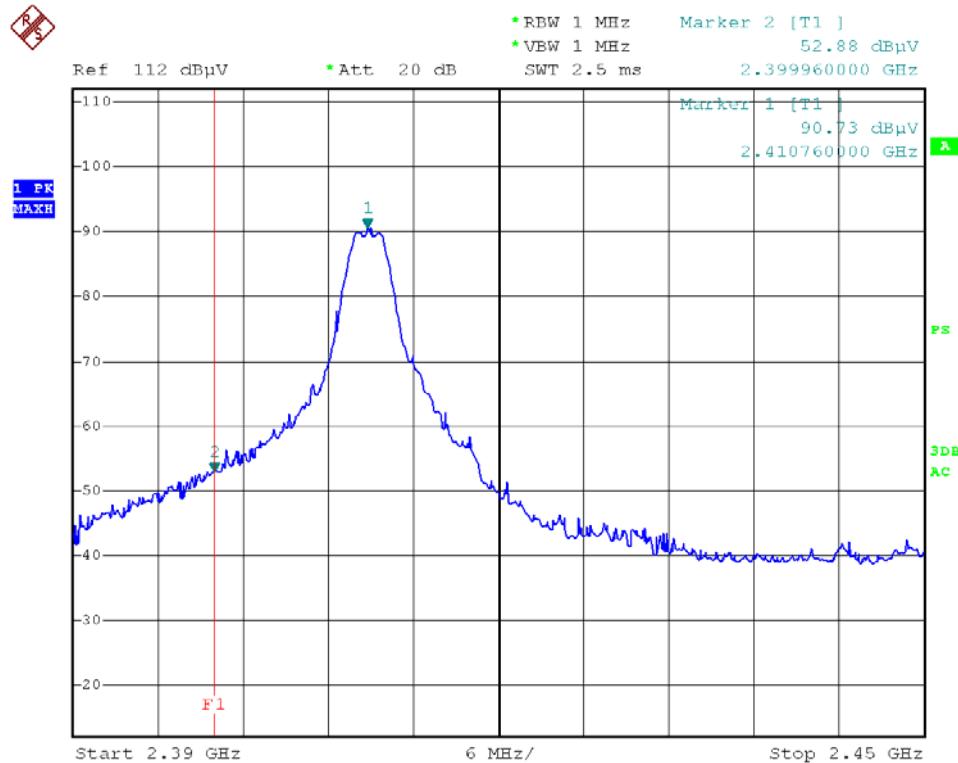
4. The test limit distance is 3m limit

| Channel High | | | | | | | | |
|-------------------------|--------------------|------------|--------------------|--------|---------------------|----------------------|-----------------------|--------------|
| Maximum Frequency (MHz) | Polarity and Level | | | | | Limit (dB μ V/m) | Margin (dB μ V/m) | Mark (P/Q/A) |
| | Polarity | Height (m) | Reading dB μ V | Transd | Result dB μ V/m | | | |
| 4944.72 | H | 1.00 | 25. 2 | 24.0 | 49.2 | 74.0 | 24.8 | P |
| | | | 21. 8 | 24.0 | 45.8 | 54.0 | 8.2 | A |
| 4944.72 | V | 1.00 | 25. 7 | 24.0 | 49.7 | 74.0 | 24.3 | P |
| | | | 22. 9 | 24.0 | 46.9 | 54.0 | 7.1 | A |
| 7417.08 | H | 1.00 | 25. 2 | 25.2 | 50.4 | 74.0 | 23.6 | P |
| | | | 19. 1 | 25.2 | 44.3 | 54.0 | 9.7 | A |
| 7417.08 | V | 1.00 | 27. 6 | 25.2 | 52.8 | 74.0 | 21.2 | P |
| | | | 20. 1 | 25.2 | 45.3 | 54.0 | 8.7 | A |
| 9889.44 | H | 1.00 | 18. 5 | 24.9 | 43.4 | 74.0 | 30.6 | P |
| | | | 16. 4 | 24.9 | 41.3 | 54.0 | 12.7 | A |
| 9889.44 | V | 1.00 | 22. 4 | 24.9 | 47.3 | 74.0 | 26.7 | P |
| | | | 19. 9 | 24.9 | 44.8 | 54.0 | 9.2 | A |
| 12361.80 | --- | --- | --- | --- | --- | --- | --- | --- |
| 14834.16 | --- | --- | --- | --- | --- | --- | --- | --- |
| 17306.51 | --- | --- | --- | --- | --- | --- | --- | --- |
| 19778.87 | --- | --- | --- | --- | --- | --- | --- | --- |
| 22251.37 | --- | --- | --- | --- | --- | --- | --- | --- |
| 24723.73 | --- | --- | --- | --- | --- | --- | --- | --- |

Remark: 1. Transd.=Antenna Factor+Cable Loss+Pre-amplifier
Margin = Level-Limit
Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
2. Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
4. The test limit distance is 3m limit

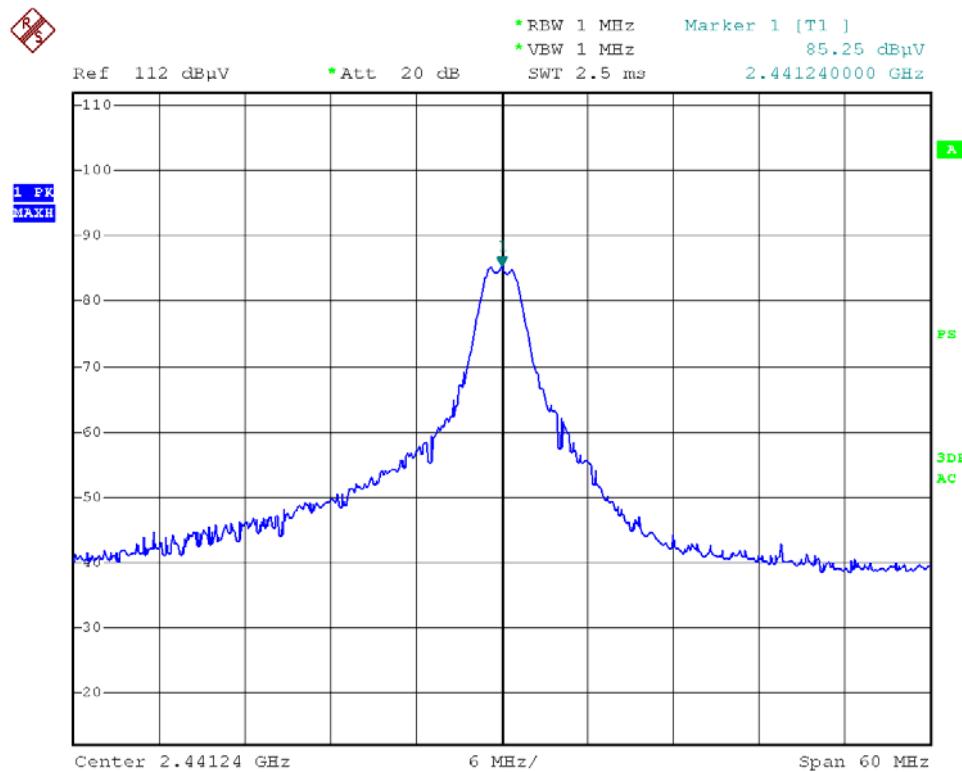
The result of Field Strength of Fundamental Field Strength

Low Channel:



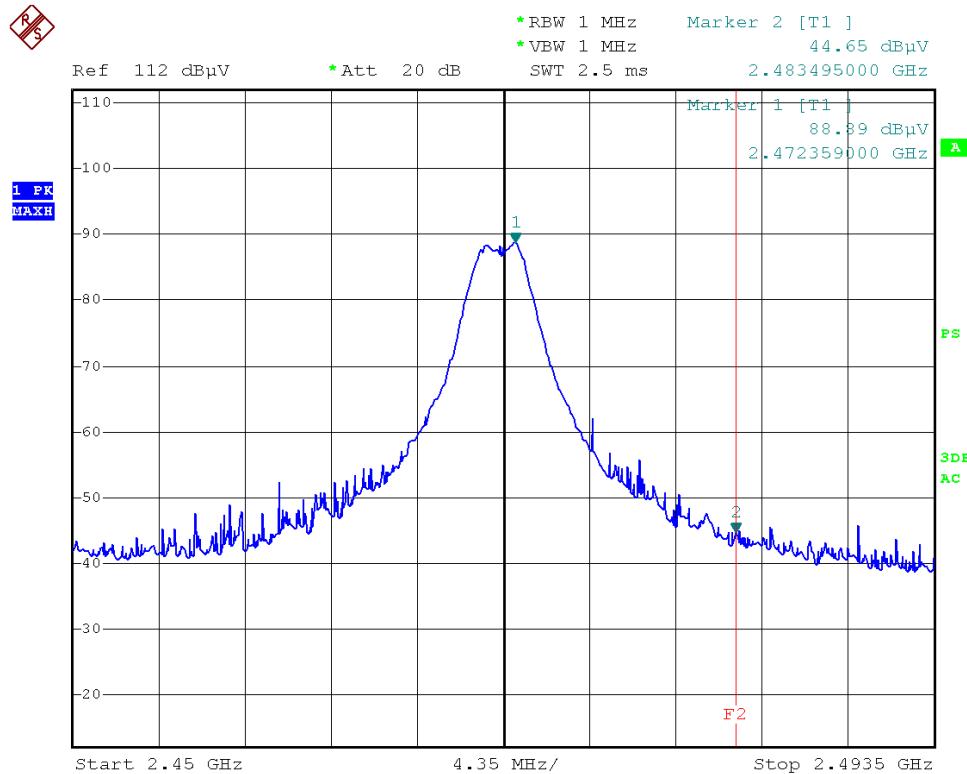
Remark: Field Strength of Fundamental Field Strength of the EUT is 90.73dB μ V/m , is lower than 50mv/m(94 dB μ V/m), complies with limit of section 15.249(a) ,and the result is pass.

Middle Channel:



Remark: Field Strength of Fundamental Field Strength of the EUT is 85.28dB μ V/m , is lower than 50mv/m(94 dB μ V/m), complies with limit of section 15.249(a) ,and the result is pass.

High Channel:



Remark: Field Strength of Fundamental Field Strength of the EUT is 88.89dB μ V/m , is lower than 50mv/m(94 dB μ V/m), complies with limit of section 15.249(a) ,and the result is pass.

7. ANTENNA REQUIREMENT

7.1 Standard Applicable

Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2 Antenna Connected Construction

The antenna connector is designed with permanent attachment and no consideration of replacement.