

## FCC COMPLIANCE REPORT

for

Dongguan Hongzhao Innovation Electronic Co., Ltd.

Wireless Video Door Phone

Model Number : HZ-A1-INDOOR

Prepared for : Dongguan Hongzhao Innovation Electronic Co., Ltd.

Address : No. 11-13, Donghuan Road, Huangjiang Town, Dongguan City,  
Guangdong Province, China

Prepared By : NS Technology Co., Ltd.

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Report Number : NSE-F09073568

Date of Test : Jul. 7~20, 2009

Date of Report : Jul. 27, 2009



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# NS Technology Co., Ltd.

|  |   |                             |                      |
|--|---|-----------------------------|----------------------|
| <b>Applicant:</b>  | Dongguan Hongzhao Innovation Electronic Co., Ltd.   |                             |                      |
| <b>Address:</b>  | No. 11-13, Donghuan Road, Huangjiang Town, Dongguan City, Guangdong Province, China                 |                             |                      |
| <b>Manufacturer:</b>   | Dongguan Hongzhao Innovation Electronic Co., Ltd.   |                             |                      |
| <b>Address:</b>  | No. 11-13, Donghuan Road, Huangjiang Town, Dongguan City, Guangdong Province, China                 |                             |                      |
| <b>E.U.T:</b>  | Wireless Video Door Phone   |                             |                      |
| <b>Model Number:</b>   | HZ-A1-INDOOR  |                             |                      |
| <b>Trade Name:</b>   | -----   | <b>Operating Frequency:</b> | 2404.125-2478.375MHz |
| <b>Date of Receipt:</b>  | Jun. 17, 2009   | <b>Date of Test:</b>        | Jul. 7~20, 2009      |
| <b>Test Specification:</b>   | FCC PART 15: 2008 Section 15.249<br>ANSI C63.4:2003   |                             |                      |
| <b>Test Result:</b>  | The equipment under test was found to be compliance with the requirements of the standards applied. |                             |                      |
| <b>Issue Date: Jul. 27, 2009</b>   |   |                             |                      |
| Tested by:   | Reviewed by:  | Approved by:                |                      |
| <u>Jade</u>  | <u>Iceman Hu</u>  | <u>Steven Lee</u>           |                      |
| Jade / Engineer  | Iceman Hu / Supervisor  | Steven Lee / Manager        |                      |
| <b>Other Aspects:</b><br>None.   |   |                             |                      |
| Abbreviations: OK/P=passed      fail/F=failed      n.a/N=not applicable      E.U.T=equipment under tested  |   |                             |                      |
| This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd. |   |                             |                      |



# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

## 1.2. Description of Device (EUT)

|                              |   |
|------------------------------|---|
| E.U.T.                       | : Wireless Video Door Phone                                 |
| Model No.                    | : HZ-A1-INDOOR  |
| Operating Frequency          | : 2404.125-2478.375MHz                                      |
| Number of Channels           | : 63 Channels   |
| Modulation type              | : GFSK  |
| Antenna Type                 | : Outside   |
| Output power                 | : -18dBm(Maximum measured)                                  |
| Antenna Assembly Gain        | : 2dBi (maximum)  |
| System Input Voltage         | : Nominal Voltage:<br>DC 5V from adapter input AC 120V/60Hz |
| Temperature Range(Operating) | : 0 ~+ 35°C   |

## 1.3. Independent Operation Modes

The basic operation modes are:

1.3.1. TX Mode CH0: 2404.125MHz

1.3.2. TX Mode CH33: 2432.25MHz

1.3.3. TX Mode CH63: 2478.375MHz



## 2. TEST SITES

### 2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.  
Date of registration: July 28, 2003

Certificated by FCC, USA  
Registration No.: 502831  
Date of registration: February 09, 2009

Certificated by VCCI, Japan  
Registration No.: R-2527 & C-2770  
Date of registration: March 23, 2007

Certificated by CNAL, CHINA  
Registration No.: L1744  
Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO  
Registration No.: TMP-013  
Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong  
Date of registration: December 1, 2005

Certificated by Industry Canada  
Registration No.: 5936A  
Date of registration: March 4, 2009

Certificated by ATCB, America  
Date of registration: August 03, 2006

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City, Guangdong, China



## 2.2. List of Test and Measurement Instruments

### 2.2.1. For conducted emission at the mains terminals test

| Equipment                      | Manufacturer  | Model No. | Serial No.   | Last Cal. | Next Cal. |
|--------------------------------|---------------|-----------|--------------|-----------|-----------|
| EMI Test Receiver              | Rohde&Schwarz | ESCS30    | 100340       | May 31,09 | May 31,10 |
| Artificial Mains Network       | Rohde&Schwarz | ESH3-Z5   | 100317       | May 31,09 | May 31,10 |
| Artificial Mains Network (AUX) | Kyoritsu      | KNW-407   | 8-1579-1     | Jan.19,09 | Jan.19,11 |
| Pulse Limiter                  | Rohde&Schwarz | ESH3-Z2   | 100168       | May 2,09  | May 2,10  |
| RF Cable                       | FUJIKURA      | 3D-2W     | 843 Cable 1# | May 2,09  | May 2,10  |

### 2.2.2. For radiation emission test(30-1000MHz)

| Equipment         | Manufacturer    | Model No. | Serial No. | Last Cal.  | Next Cal.  |
|-------------------|-----------------|-----------|------------|------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESVS10    | 841431/004 | Jan.19, 09 | Jan.19,10  |
| Spectrum Analyzer | Agilent         | E7405A    | MY45118807 | May 31,09  | May 31,10  |
| Amplifier         | Agilent         | 8447D     | 2944A11174 | Jan.19,09  | Jan.19,10  |
| Bilog Antenna     | Teseq           | CBL 6111D | 25758      | Oct. 15,08 | Oct. 15,09 |
| Coaxial Switch    | Anritsu         | MP59B     | 6200530579 | May 2,09   | May 2,10   |

### 2.2.3. For radiated emission test(above 1GHz)

| Equipment         | Manufacturer | Model No.                    | Serial No.        | Last Cal.  | Next Cal.  |
|-------------------|--------------|------------------------------|-------------------|------------|------------|
| Spectrum Analyzer | Agilent      | E7405A                       | MY45118807        | May 31,09  | May 31,10  |
| Horn Antenna      | EMCO         | 3117                         | 00062558          | Jan. 19,09 | Jan. 19,11 |
| Signal Amplifier  | BURGEON      | PEC-38-30<br>M18G<br>-12-SFF | NSEMC001          | May 31,09  | May 31,11  |
| RF Cable          | DRAKA        | M06/25-RG<br>102             | 966Cable<br>3#24G | May 2,09   | May 2,10   |

### 2.2.4. For 20dB bandwidth test

| Equipment         | Manufacturer    | Model No. | Serial No. | Last Cal. | Next Cal. |
|-------------------|-----------------|-----------|------------|-----------|-----------|
| Spectrum Analyzer | Rohde & Schwarz | ESPI      | 100302     | May 31,09 | May 31,10 |

### 2.2.5. For Band edge compliance test

| Equipment         | Manufacturer    | Model No. | Serial No. | Last Cal.  | Next Cal.  |
|-------------------|-----------------|-----------|------------|------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESCS30    | 100199     | May 31,09  | May 31,10  |
| Spectrum Analyzer | HP              | 8593E     | 3448U00806 | May 31,09  | May 31,10  |
| Signal Amplifier  | Agilent         | 8447D     | 2944A10488 | May 2,09   | May 2,10   |
| Horn Antenna      | EMCO            | 3117      | 00062558   | Jan. 13,09 | Jan. 13,11 |

### 3. TEST SET-UP AND OPERATION MODES

#### 3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

#### 3.2. Test Operation Mode and Test Software

Refer to clause 1.4

#### 3.3. Special Accessories and Auxiliary Equipment

None.

#### 3.4. Countermeasures to Achieve EMC Compliance

None.



## 4. TEST SUMMARY

Test items and result lists

| No. | Item                      | Standard                               | Results |
|-----|---------------------------|--|---------|
| 1   | Conduction Emission Test  | FCC Part15C: 15.209<br>ANSI C63.4-2003 | PASS    |
| 2   | Radiated Emission Test    | FCC Part15C: 15.249<br>ANSI C63.4-2003 | PASS    |
| 3   | Band Edge Compliance Test | FCC Part15: 15.249                     | PASS    |
| 4   | 20dB Bandwidth Test       | FCC Part 15: 15.215                    | PASS    |



## 4.1. Conducted Emission

### 4.1.1. Test limits

| Frequency       | Maximum RF Line Voltage    |                         |
|-----------------|----------------------------|-------------------------|
|                 | Quasi-Peak Level<br>dB(1V) | Average Level<br>dB(1V) |
| 150kHz ~ 500kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500kHz ~ 5MHz   | 56                         | 46                      |
| 5MHz ~ 30MHz    | 60                         | 50                      |

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 4.1.2. Test procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Test.

### 4.1.3. Test result

**PASS.**

The test plots as following:



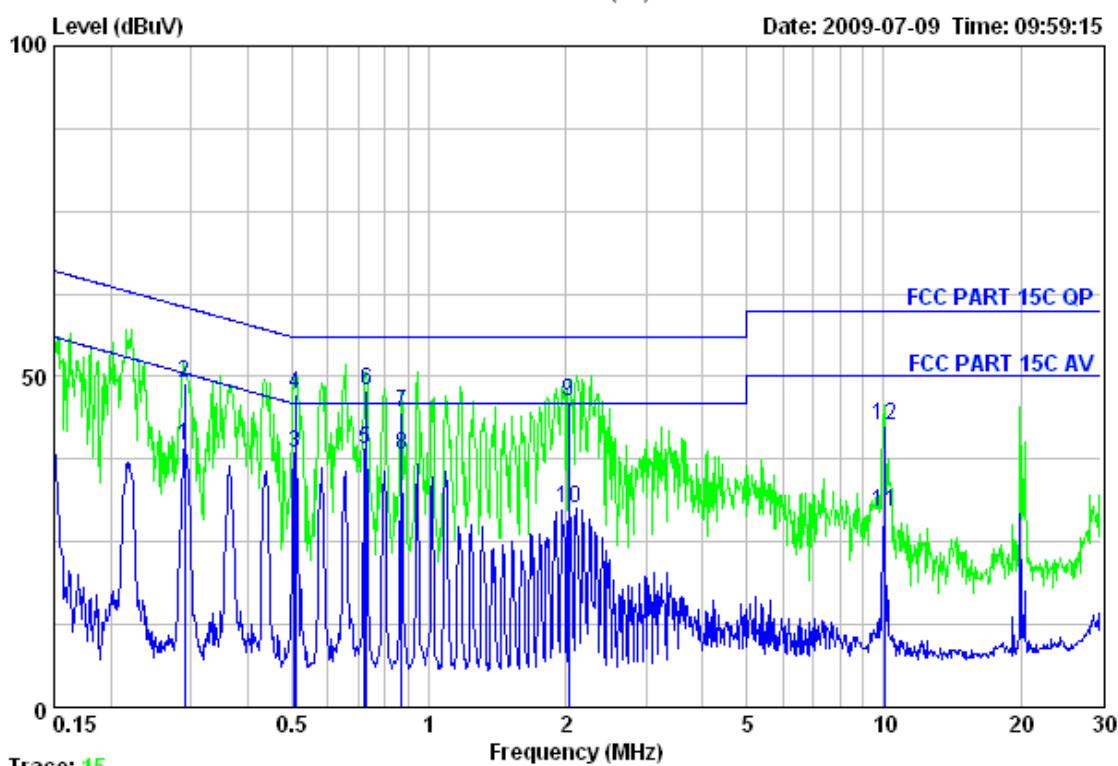
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Data: 16

File: D:\Conduction\H\HONGZHAO.EMI (24)

Date: 2009-07-09 Time: 09:59:15



Test Site : 843 Shielded Room  
 Limit : FCC PART 15C QP LINE Phase :NEUTRAL  
 EUT : Wireless Video Door Phone  
 Power : DC 5V from adapter input AC 120V/60Hz  
 M/N : HZ-A1-INDOOR  
 Test Engineer: Jade  
 Comment : Temp:25.3'C Humi:58%  
 Test Mode : TX Mode

|    | Freq.<br>(MHz) | Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------|------------------|----------------|---------|
| 1  | 0.29           | 39.42           | 50.50            | 11.08          | Average |
| 2  | 0.29           | 48.99           | 60.50            | 11.51          | QP      |
| 3  | 0.51           | 38.38           | 46.00            | 7.62           | Average |
| 4  | 0.51           | 47.23           | 56.00            | 8.77           | QP      |
| 5  | 0.72           | 38.95           | 46.00            | 7.05           | Average |
| 6  | 0.73           | 47.78           | 56.00            | 8.22           | QP      |
| 7  | 0.87           | 44.56           | 56.00            | 11.44          | QP      |
| 8  | 0.87           | 38.18           | 46.00            | 7.82           | Average |
| 9  | 2.03           | 46.21           | 56.00            | 9.79           | QP      |
| 10 | 2.03           | 30.22           | 46.00            | 15.78          | Average |
| 11 | 10.02          | 29.50           | 50.00            | 20.50          | Average |
| 12 | 10.02          | 42.60           | 60.00            | 17.40          | QP      |



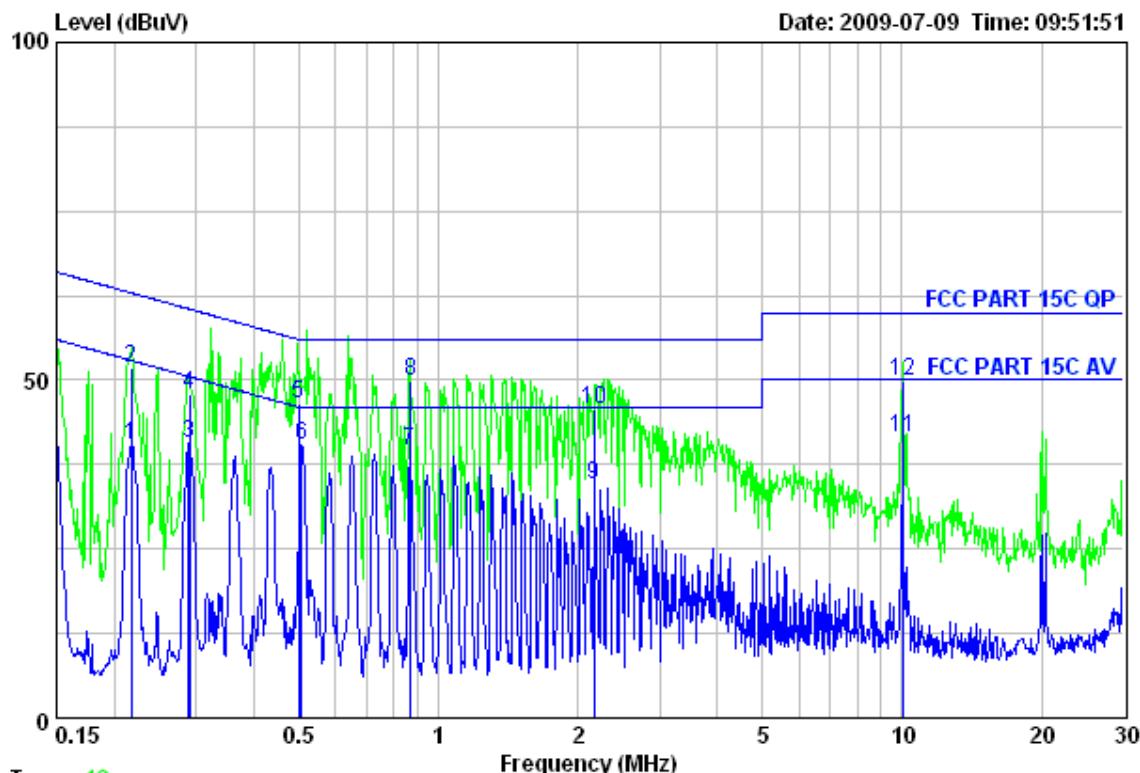
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Data: 14

File: D:\Conduction\H\HONGZHAO.EMI (24)

Date: 2009-07-09 Time: 09:51:51



Trace: 13

Test Site : 843 Shielded Room  
 Limit : FCC PART 15C QP LINE Phase :LINE  
 EUT : Wireless Video Door Phone  
 Power : DC 5V from adapter input AC 120V/60Hz  
 M/N : HZ-A1-INDOOR  
 Test Engineer: Jade  
 Comment : Temp:25.3'C Humi:58%  
 Test Mode : TX Mode

|    | Freq.<br>(MHz) | Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|-----------------|------------------|----------------|---------|
| 1  | 0.22           | 40.34           | 52.92            | 12.58          | Average |
| 2  | 0.22           | 51.79           | 62.92            | 11.13          | QP      |
| 3  | 0.29           | 40.69           | 50.54            | 9.85           | Average |
| 4  | 0.29           | 47.90           | 60.52            | 12.62          | QP      |
| 5  | 0.50           | 46.60           | 56.00            | 9.40           | QP      |
| 6  | 0.51           | 40.46           | 46.00            | 5.54           | Average |
| 7  | 0.87           | 39.55           | 46.00            | 6.45           | Average |
| 8  | 0.87           | 49.85           | 56.00            | 6.15           | QP      |
| 9  | 2.17           | 34.49           | 46.00            | 11.51          | Average |
| 10 | 2.17           | 45.64           | 56.00            | 10.36          | QP      |
| 11 | 10.02          | 41.59           | 50.00            | 8.41           | Average |
| 12 | 10.02          | 49.73           | 60.00            | 10.27          | QP      |



## 4.2. Radiated Emission

### 4.2.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.249(a)

### 4.2.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz ; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than 1/T, so the video bandwidth is 10Hz.

In 18GHz to 25GHz, The EUT was checked by Horn ANT . But the test result is background.

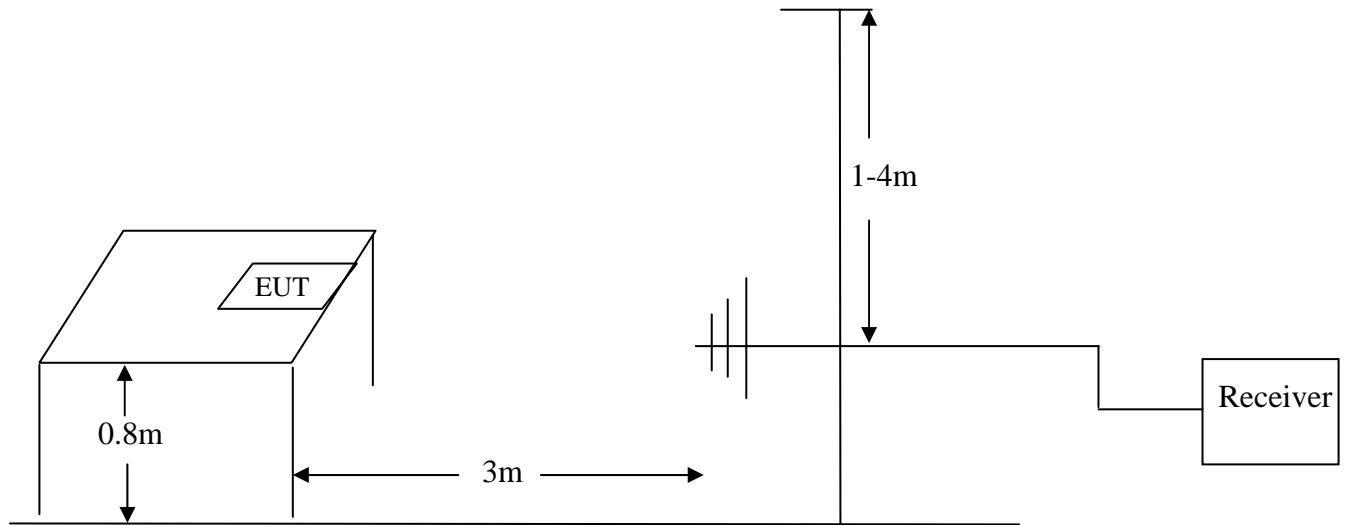
The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

The EUT was tested in Chamber Site.

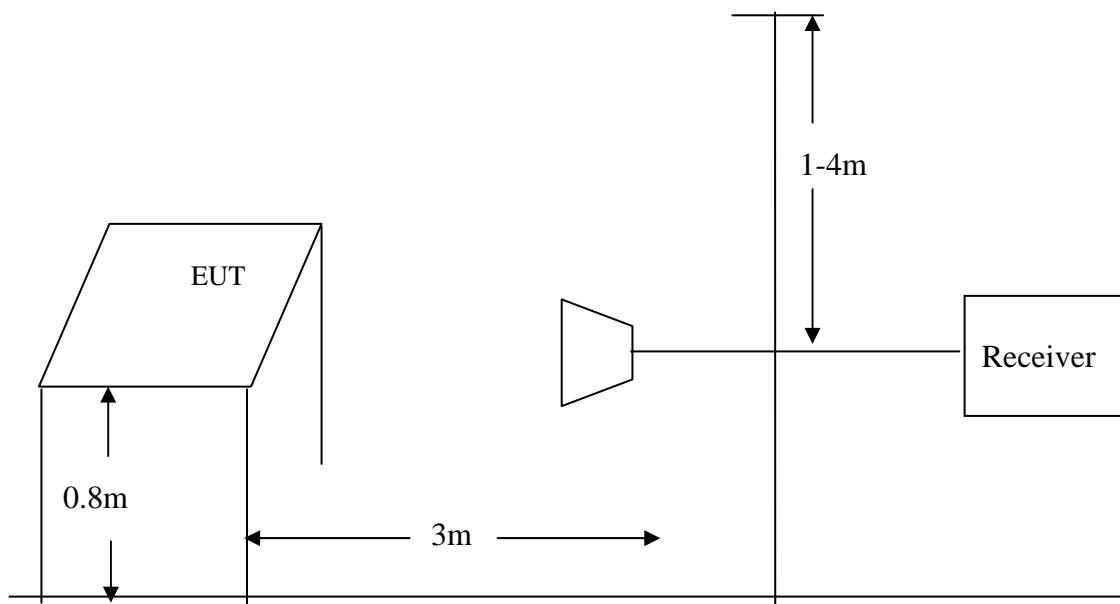


#### 4.2.3. Test Setup Diagram

##### 4.2.3.1. Frequency range: 30MHz-1000MHz



##### 4.2.3.2. Frequency range: 1GHz -18GHz



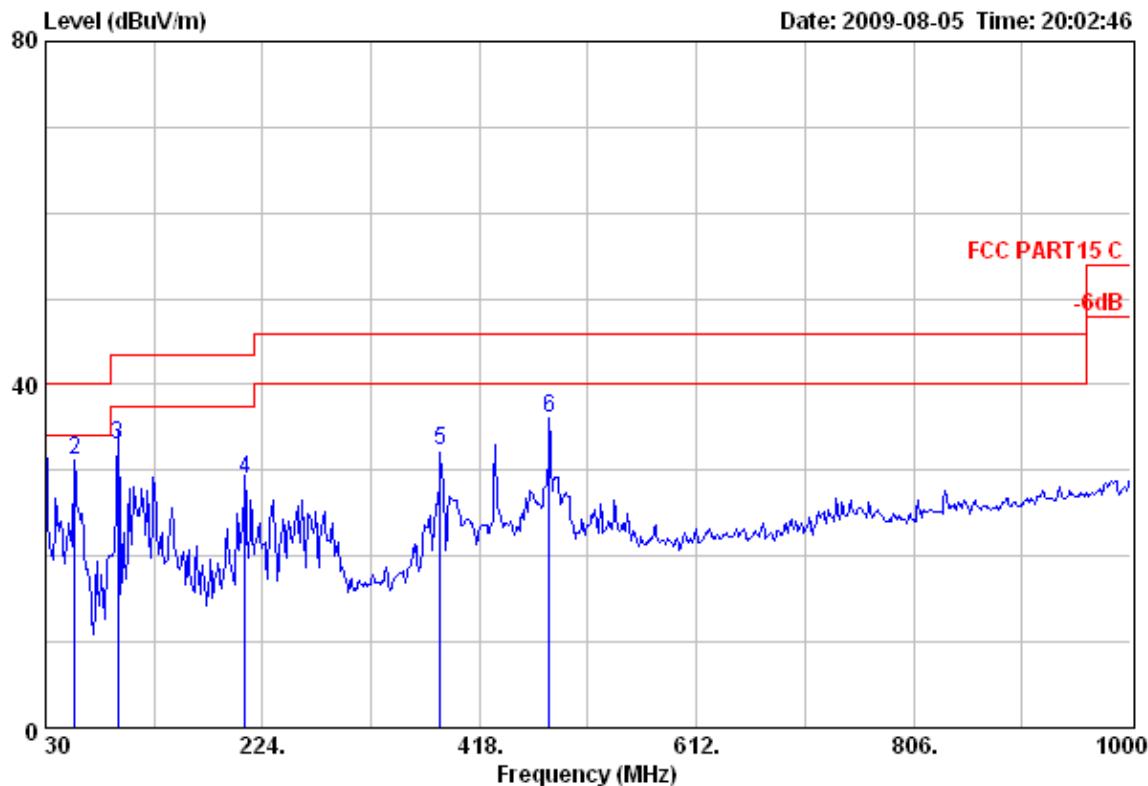
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Data: 83

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:02:46



Test Site : 10m Chamber  
 Limit : FCC PART15 C  
 Dis. / Ant. : 3m 25758-3 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode

| Freq.<br>(MHz) | Emission          |                    |                | Ant.  | Cable | Remark  |
|----------------|-------------------|--------------------|----------------|-------|-------|---------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |       |       |         |
| 1 30.00        | 34.25             | 40.00              | 5.75           | 16.07 | 17.60 | 0.58 QP |
| 2 56.28        | 31.16             | 40.00              | 8.84           | 23.89 | 6.56  | 0.71 QP |
| 3 94.99        | 33.08             | 43.50              | 10.42          | 22.36 | 9.70  | 1.02 QP |
| 4 208.48       | 29.07             | 43.50              | 14.43          | 18.63 | 8.87  | 1.57 QP |
| 5 383.26       | 32.37             | 46.00              | 13.63          | 14.26 | 16.00 | 2.11 QP |
| 6 480.08       | 36.03             | 46.00              | 9.97           | 15.54 | 18.10 | 2.39 QP |



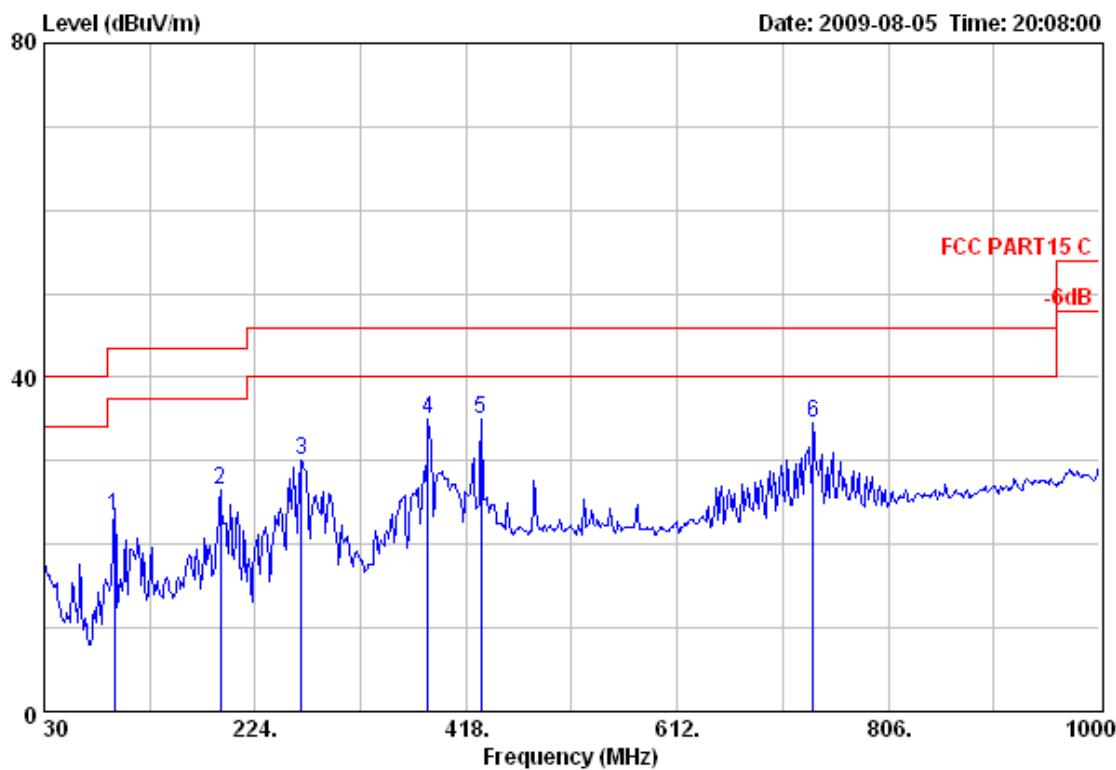
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Data: 84

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:08:00



Test Site : 10m Chamber  
 Limit : FCC PART15 C  
 Dis. / Ant. : 3m 25758-3 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Reading<br>(dBuV) | Cable Factor<br>(dB) | Loss<br>(dB/m) | Remark |
|----------------|-------------------|--------------------|----------------|------------------------|----------------------|----------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |                        |                      |                |        |
| 1 94.99        | 23.35             | 43.50              | 20.15          | 12.63                  | 9.70                 | 1.02           | QP     |
| 2 191.99       | 26.53             | 43.50              | 16.97          | 16.58                  | 8.46                 | 1.49           | QP     |
| 3 266.68       | 30.15             | 46.00              | 15.85          | 15.13                  | 13.25                | 1.77           | QP     |
| 4 383.08       | 34.90             | 46.00              | 11.10          | 16.79                  | 16.00                | 2.11           | QP     |
| 5 431.58       | 35.02             | 46.00              | 10.98          | 15.51                  | 17.26                | 2.25           | QP     |
| 6 737.13       | 34.48             | 46.00              | 11.52          | 8.63                   | 22.86                | 2.99           | QP     |



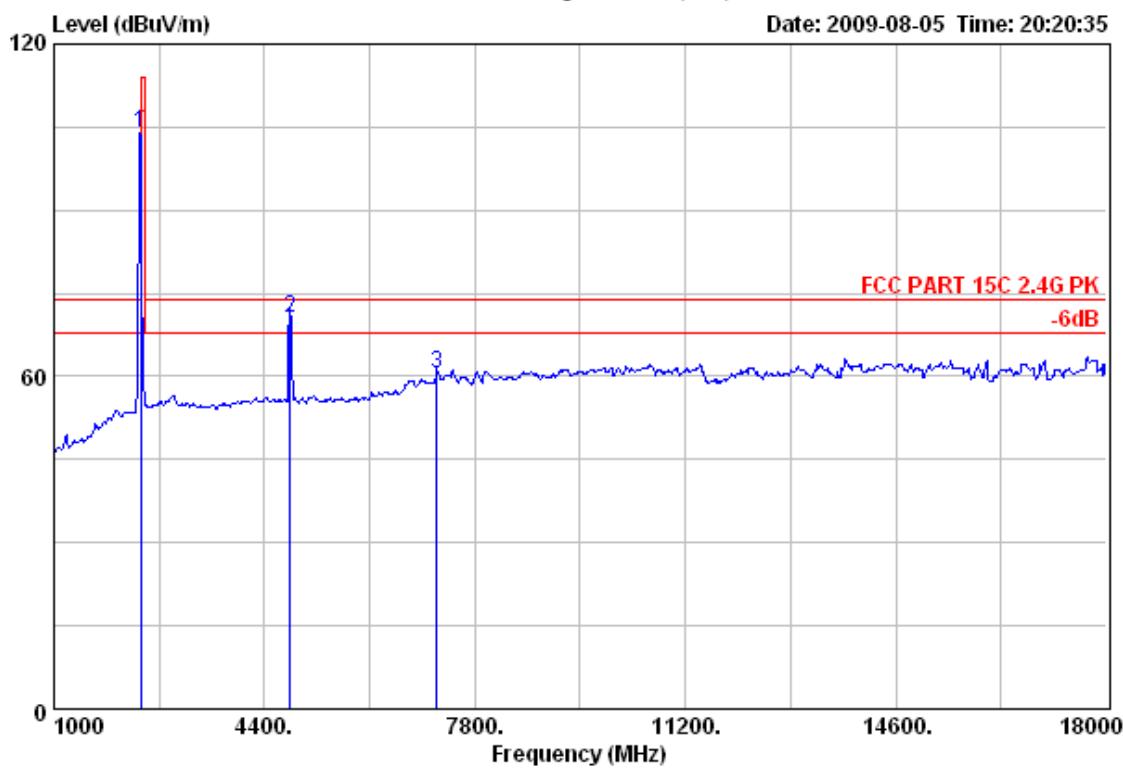
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Data: 85

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:20:35



Test Site : 966 Chamber  
 Limit : FCC PART 15C 2.4G PK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |        |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | Remark |
| 1 2404.13      | 103.96            | 114.00             | 10.04          | 70.23             | 31.50  | 2.23           | Peak   |
| 2 4809.00      | 70.60             | 74.00              | 3.40           | 33.64             | 34.58  | 2.38           | Peak   |
| 3 7187.00      | 60.45             | 74.00              | 13.55          | 21.07             | 36.86  | 2.52           | Peak   |



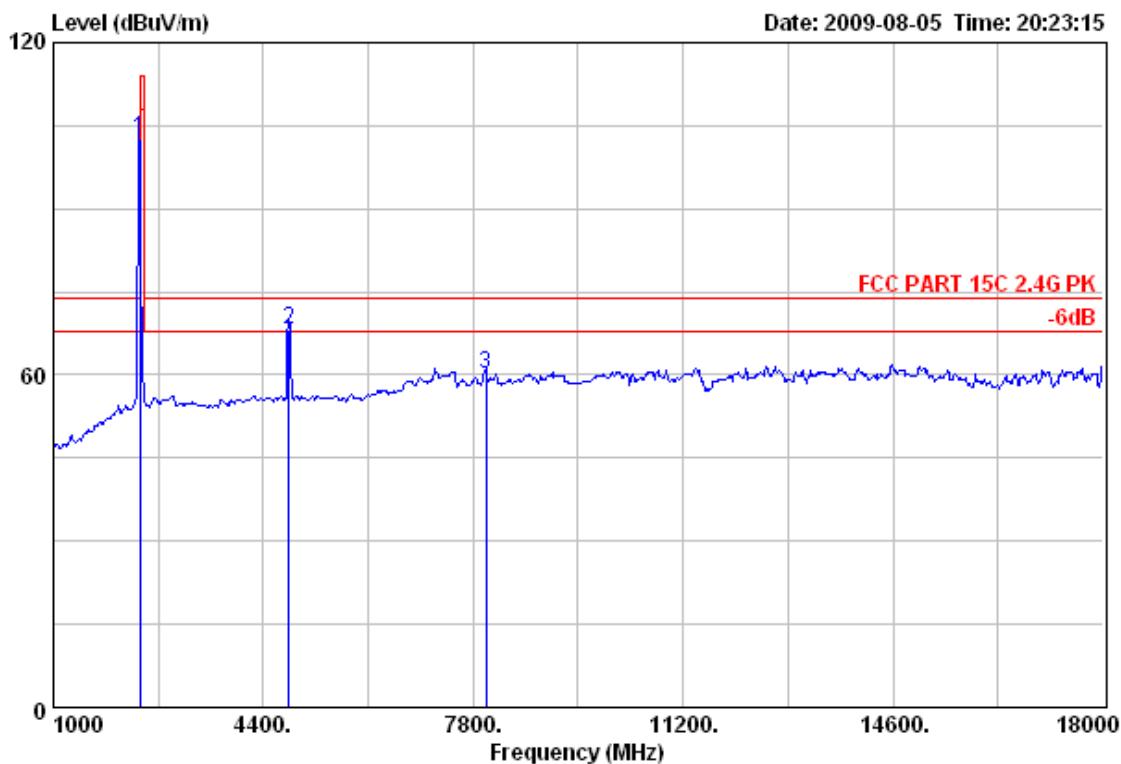
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Data: 86

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:23:15



Test Site : 966 Chamber  
 Limit : FCC PART 15C 2.4G PK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |        |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | Remark |
| 1 2404.13      | 102.63            | 114.00             | 11.37          | 68.90             | 31.50  | 2.23           | Peak   |
| 2 4808.00      | 68.14             | 74.00              | 5.86           | 31.18             | 34.58  | 2.38           | Peak   |
| 3 8004.00      | 60.20             | 74.00              | 13.80          | 20.62             | 37.00  | 2.58           | Peak   |



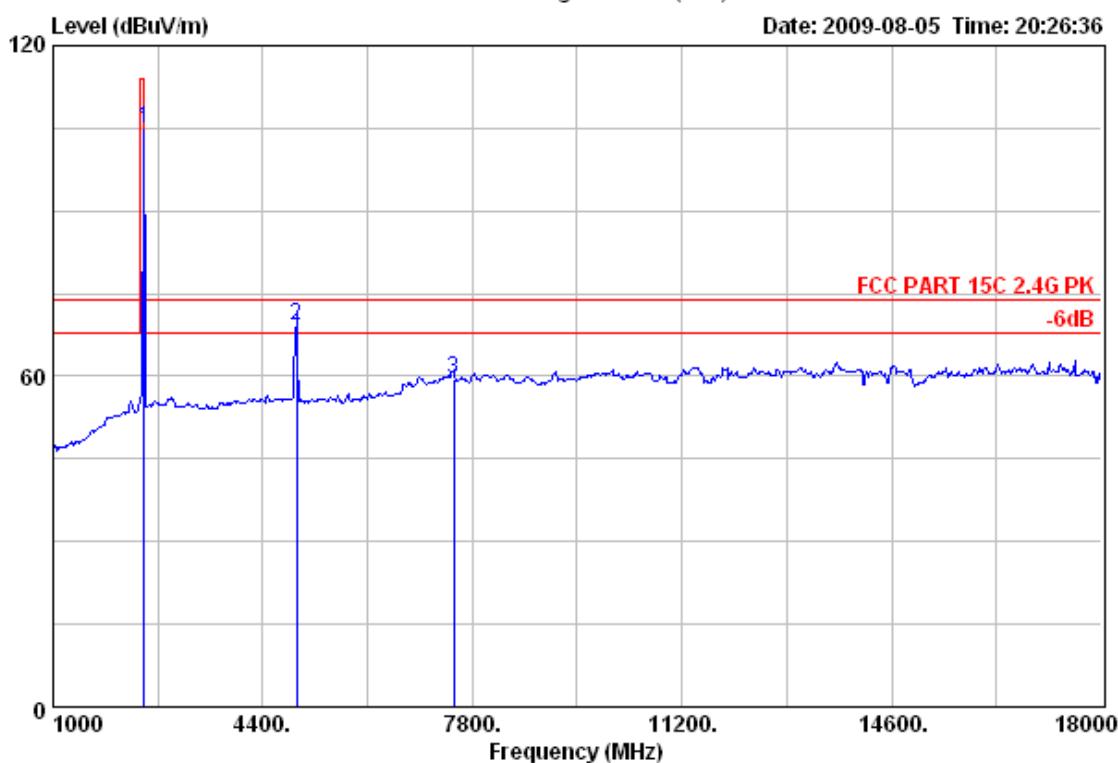
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Data: 87

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:26:36



Test Site : 966 Chamber  
 Limit : FCC PART 15C 2.4G PK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |      | Remark |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | (dB) |        |
| 1 2478.38      | 104.92            | 114.00             | 9.08           | 71.11             | 31.58  | 2.23           | Peak |        |
| 2 4944.00      | 69.31             | 74.00              | 4.69           | 32.26             | 34.67  | 2.38           | Peak |        |
| 3 7494.00      | 59.50             | 74.00              | 14.50          | 20.16             | 36.80  | 2.54           | Peak |        |



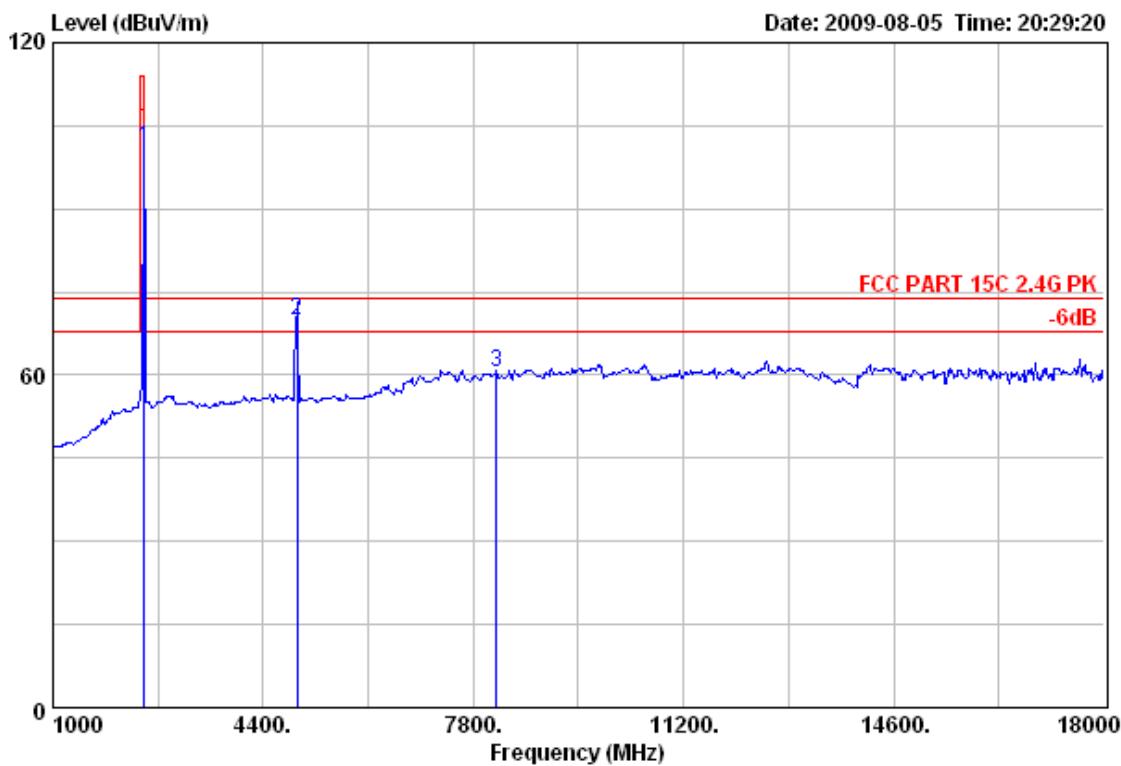
## NS Technology

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Data: 88

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:29:20



Test Site : 966 Chamber  
 Limit : FCC PART 15C 2.4G PK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |        |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | Remark |
| 1 2478.38      | 100.84            | 114.00             | 13.16          | 67.03             | 31.58  | 2.23           | Peak   |
| 2 4944.00      | 69.91             | 74.00              | 4.09           | 32.86             | 34.67  | 2.38           | Peak   |
| 3 8174.00      | 60.53             | 74.00              | 13.47          | 20.98             | 36.96  | 2.59           | Peak   |



## NS Technology

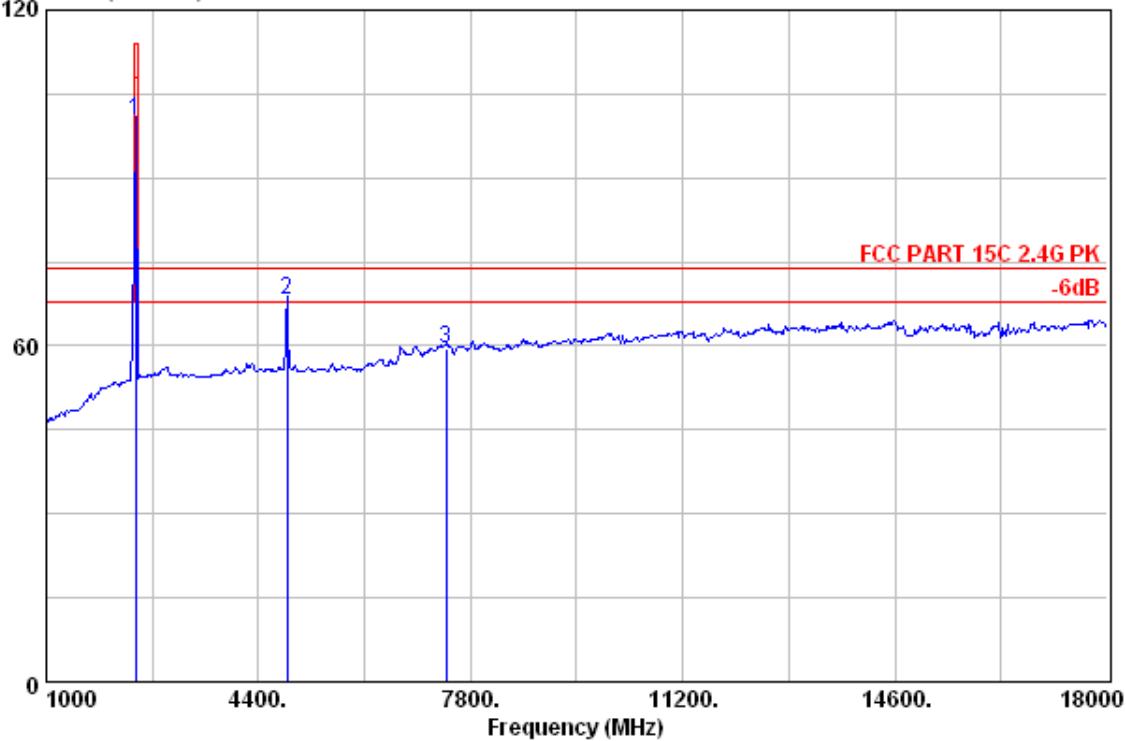
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Data: 89

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:32:33

Level (dBuV/m)



Test Site : 966 Chamber  
 Limit : FCC PART 15C 2.4G PK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH33

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |                |                |        |
|----------------|-------------------|--------------------|----------------|-------------------|----------------|----------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor<br>(dB) | Loss<br>(dB/m) | Remark |
| 1 2432.25      | 100.21            | 114.00             | 13.79          | 66.46             | 31.52          | 2.23           | Peak   |
| 2 4859.00      | 68.11             | 74.00              | 5.89           | 31.12             | 34.61          | 2.38           | Peak   |
| 3 7409.00      | 59.52             | 74.00              | 14.48          | 20.16             | 36.82          | 2.54           | Peak   |



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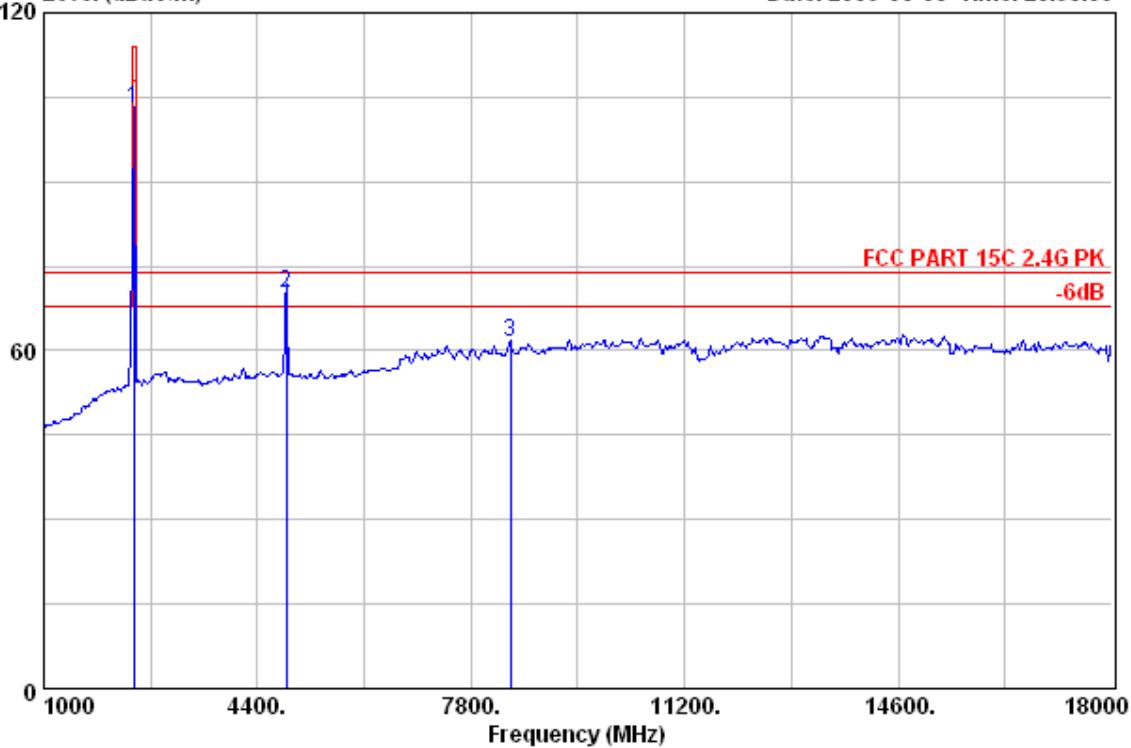
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Data: 90

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:35:03

Level (dBuV/m)



Test Site : 966 Chamber  
 Limit : FCC PART 15C 2.4G PK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH33

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |                  |              |        |
|----------------|-------------------|--------------------|----------------|-------------------|------------------|--------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor<br>(dB/m) | Loss<br>(dB) | Remark |
| 1 2432.25      | 102.93            | 114.00             | 11.07          | 69.18             | 31.52            | 2.23         | Peak   |
| 2 4859.00      | 70.25             | 74.00              | 3.75           | 33.26             | 34.61            | 2.38         | Peak   |
| 3 8429.00      | 61.38             | 74.00              | 12.62          | 21.87             | 36.91            | 2.60         | Peak   |



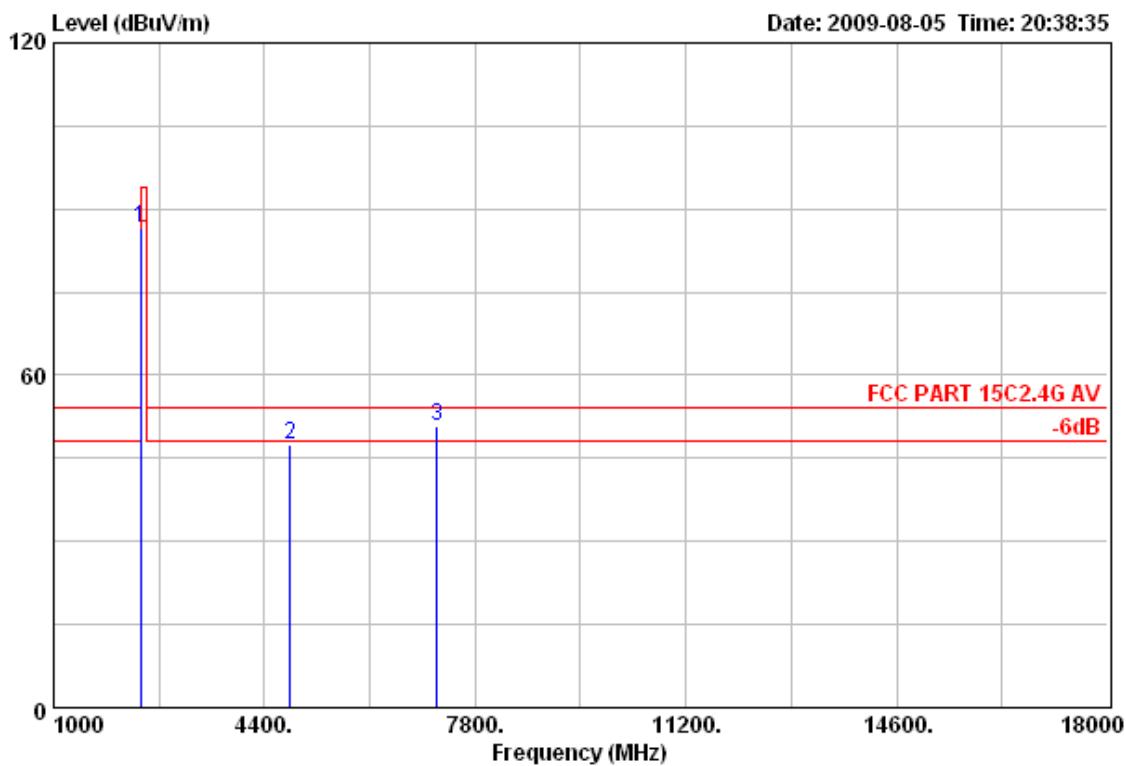
## NS Technology

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Data: 91

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:38:35



Test Site : 966 Chamber  
 Limit : FCC PART 15C2.4G AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |      | Remark  |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|------|---------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | (dB) |         |
| 1 2404.13      | 86.69             | 94.00              | 7.31           | 52.96             | 31.50  | 2.23           |      | Average |
| 2 4808.00      | 47.60             | 54.00              | 6.40           | 10.64             | 34.58  | 2.38           |      | Average |
| 3 7188.00      | 50.65             | 54.00              | 3.35           | 11.27             | 36.86  | 2.52           |      | Average |



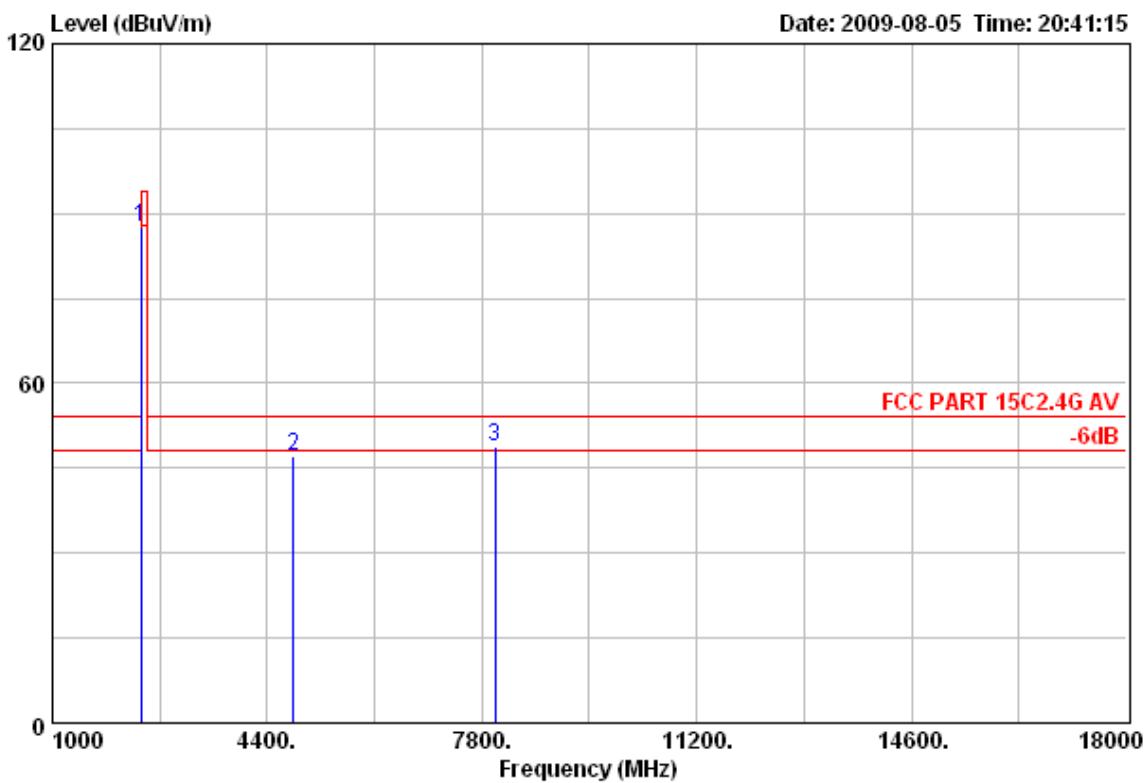
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Data: 92

File: D:\Radiation 10m data\Hihongzhao.EMI (104)

Date: 2009-08-05 Time: 20:41:15



Test Site : 966 Chamber  
 Limit : FCC PART 15C2.4G AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |         |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|---------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | Remark  |
| 1 2404.13      | 87.68             | 94.00              | 6.32           | 53.95             | 31.50  | 2.23           | Average |
| 2 4808.00      | 47.26             | 54.00              | 6.74           | 10.30             | 34.58  | 2.38           | Average |
| 3 8004.00      | 48.86             | 54.00              | 5.14           | 9.28              | 37.00  | 2.58           | Average |



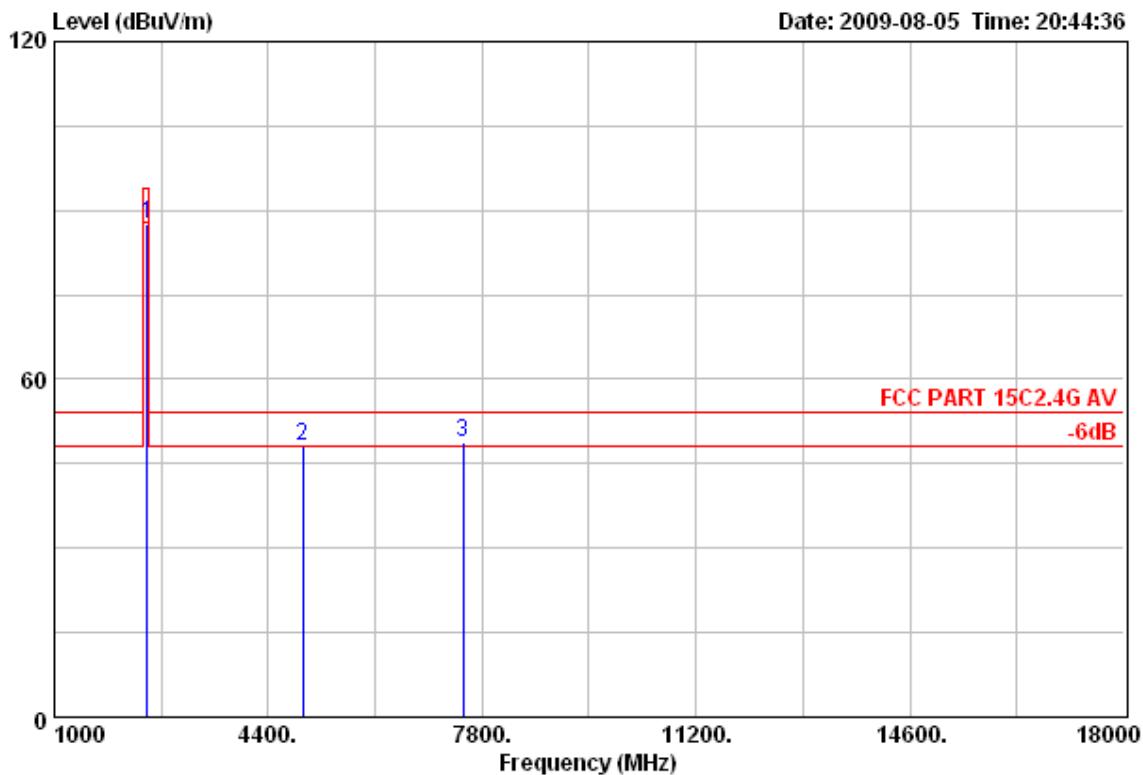
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Data: 93

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:44:36



Test Site : 966 Chamber  
 Limit : FCC PART 15C2.4G AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Level<br>(dBuV/m) | Emission           |                | Margin<br>(dB) | Reading<br>(dBuV) | Ant.<br>(dB/m) | Cable<br>(dB) | Remark  |
|----------------|-------------------|--------------------|----------------|----------------|-------------------|----------------|---------------|---------|
|                |                   | Limits<br>(dBuV/m) | Margin<br>(dB) |                |                   |                |               |         |
| 1 2478.38      | 87.58             | 94.00              | 6.42           | 53.77          | 31.58             | 2.23           | 2.23          | Average |
| 2 4944.00      | 48.29             | 54.00              | 5.71           | 11.24          | 34.67             | 2.38           | 2.38          | Average |
| 3 7494.00      | 48.85             | 54.00              | 5.15           | 9.51           | 36.80             | 2.54           | 2.54          | Average |



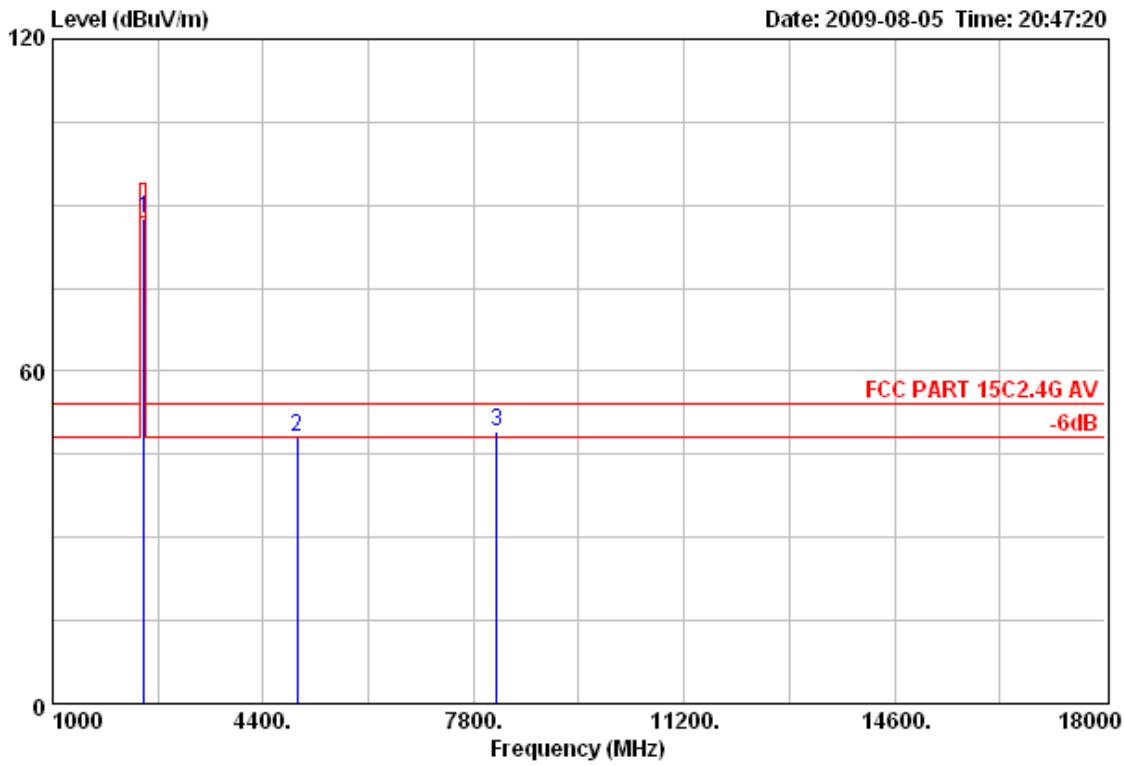
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Data: 94

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:47:20



Test Site : 966 Chamber  
 Limit : FCC PART 15C2.4G AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |                  |              |         | Remark |
|----------------|-------------------|--------------------|----------------|-------------------|------------------|--------------|---------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor<br>(dB/m) | Loss<br>(dB) |         |        |
| 1 2478.38      | 87.68             | 94.00              | 6.32           | 53.87             | 31.58            | 2.23         | Average |        |
| 2 4944.00      | 48.17             | 54.00              | 5.83           | 11.12             | 34.67            | 2.38         | Average |        |
| 3 8174.00      | 49.18             | 54.00              | 4.82           | 9.63              | 36.96            | 2.59         | Average |        |

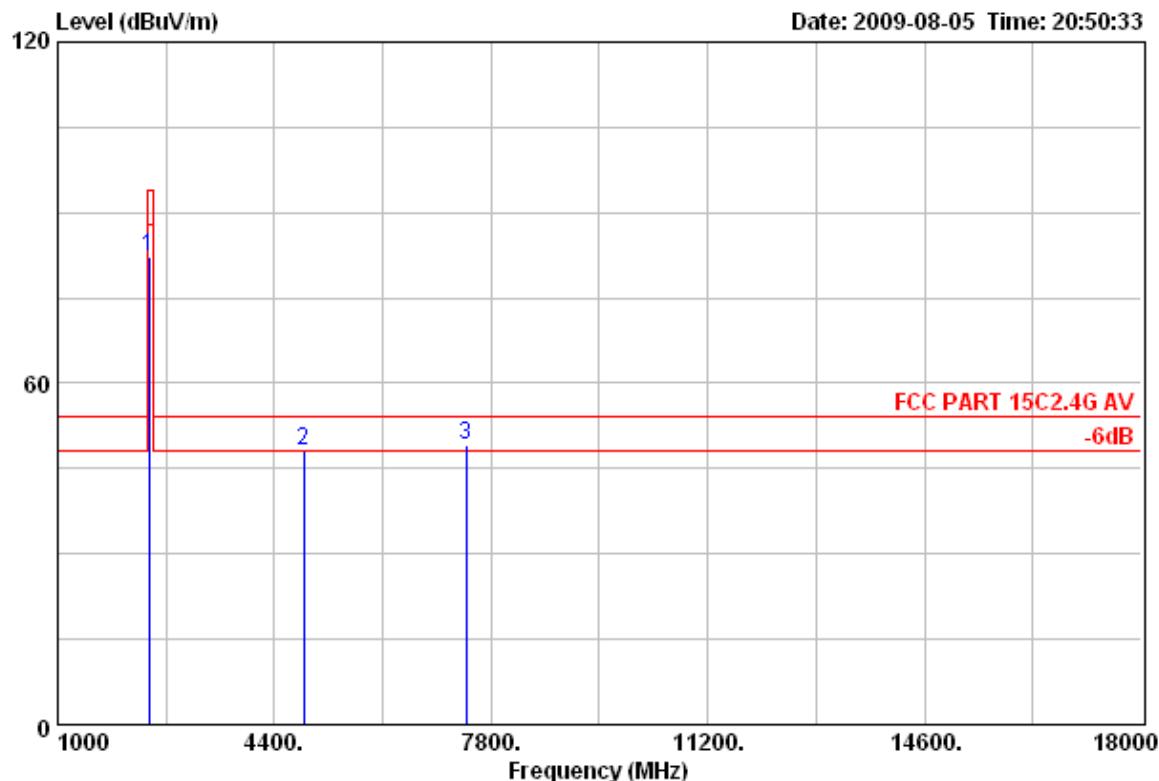


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Data: 95

File: D:\Radiation 10m data\H\hongzhao.EMI (104)



Test Site : 966 Chamber  
 Limit : FCC PART 15C2.4G AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH33

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |        |                |         |
|----------------|-------------------|--------------------|----------------|-------------------|--------|----------------|---------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor | Loss<br>(dB/m) | Remark  |
| 1 2432.23      | 82.26             | 94.00              | 11.74          | 48.51             | 31.52  | 2.23           | Average |
| 2 4859.00      | 48.15             | 54.00              | 5.85           | 11.16             | 34.61  | 2.38           | Average |
| 3 7409.00      | 49.22             | 54.00              | 4.78           | 9.86              | 36.82  | 2.54           | Average |



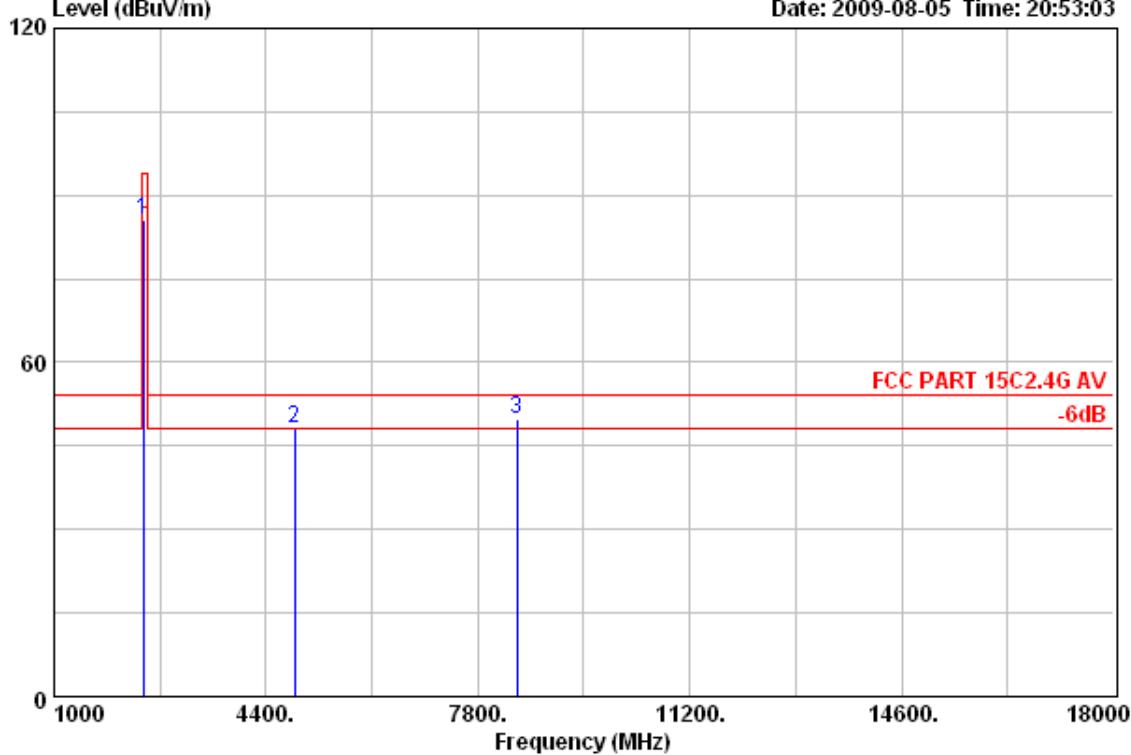
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Data: 96

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:53:03



Test Site : 966 Chamber  
Limit : FCC PART 15C2.4G AV  
Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
EUT : Wireless Video Door Phone  
M/N : HZ-A1-INDOOR  
Power : DC 5V From adapter input AC 120V/60Hz  
Test Engineer : Jade  
Comment : Temp.:25.2'C Humi.:56%  
Test Mode : TX Mode CH33

| Emission  |          |          |        |         | Ant.   | Cable  |         |
|-----------|----------|----------|--------|---------|--------|--------|---------|
| Freq.     | Level    | Limits   | Margin | Reading | Factor | Loss   | Remark  |
| (MHz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dBuV)  |        | (dB/m) | (dB)    |
| 1 2432.25 | 85.69    | 94.00    | 8.31   | 51.94   | 31.52  | 2.23   | Average |
| 2 4859.00 | 48.05    | 54.00    | 5.95   | 11.06   | 34.61  | 2.38   | Average |
| 3 8429.00 | 49.71    | 54.00    | 4.29   | 10.20   | 36.91  | 2.60   | Average |

### 4.3. 20dB Bandwidth

#### 4.3.1. Test limits

No requirement.

#### 4.3.2. Test procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
3. Set the EUT work on the Low Channel, Middle Channel, High Channel individually.
4. Set SA Center Frequency = Operation frequency, RBW=1MHz, VBW=1MHz.
5. Set SA trace max hold, then view.

#### 4.3.3. Test result

**Pass**

| Test Channel | Frequency<br>MHz | 20dB bandwidth<br>MHz |
|--------------|------------------|-----------------------|
| CH0          | 2404.125         | 5.10                  |
| CH33         | 2432.25          | 5.05                  |
| CH63         | 2478.375         | 5.20                  |

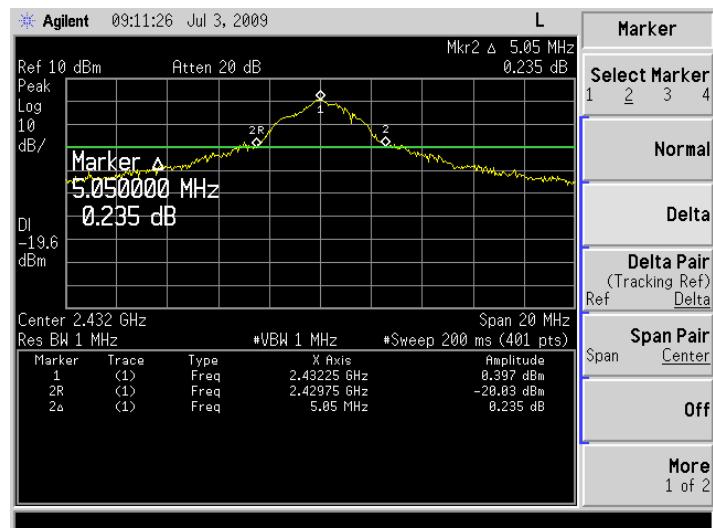
The test plots as following:



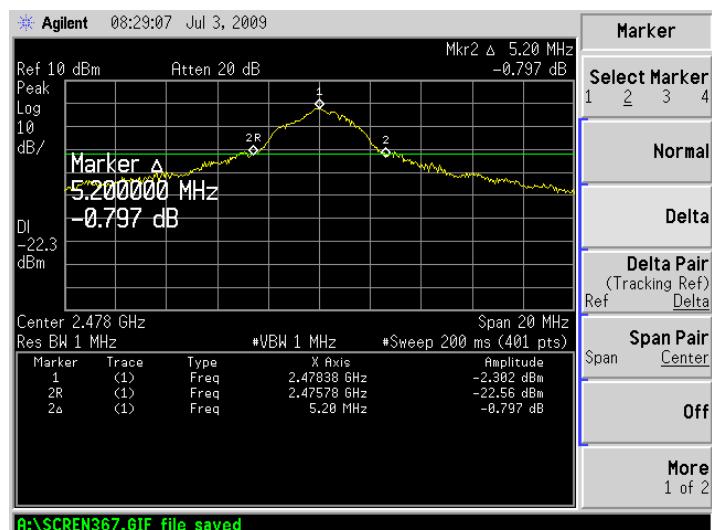
## TX Mode CH0: 2404.125MHz



## TX Mode CH33: 2432.25MHz



## TX Mode CH63: 2478.375MHz



## 4.4. Band Edge

### 4.4.1. Test limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

### 4.4.2. Test procedure

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

### 4.4.3. Test result

**PASS.**

The test plots as following:



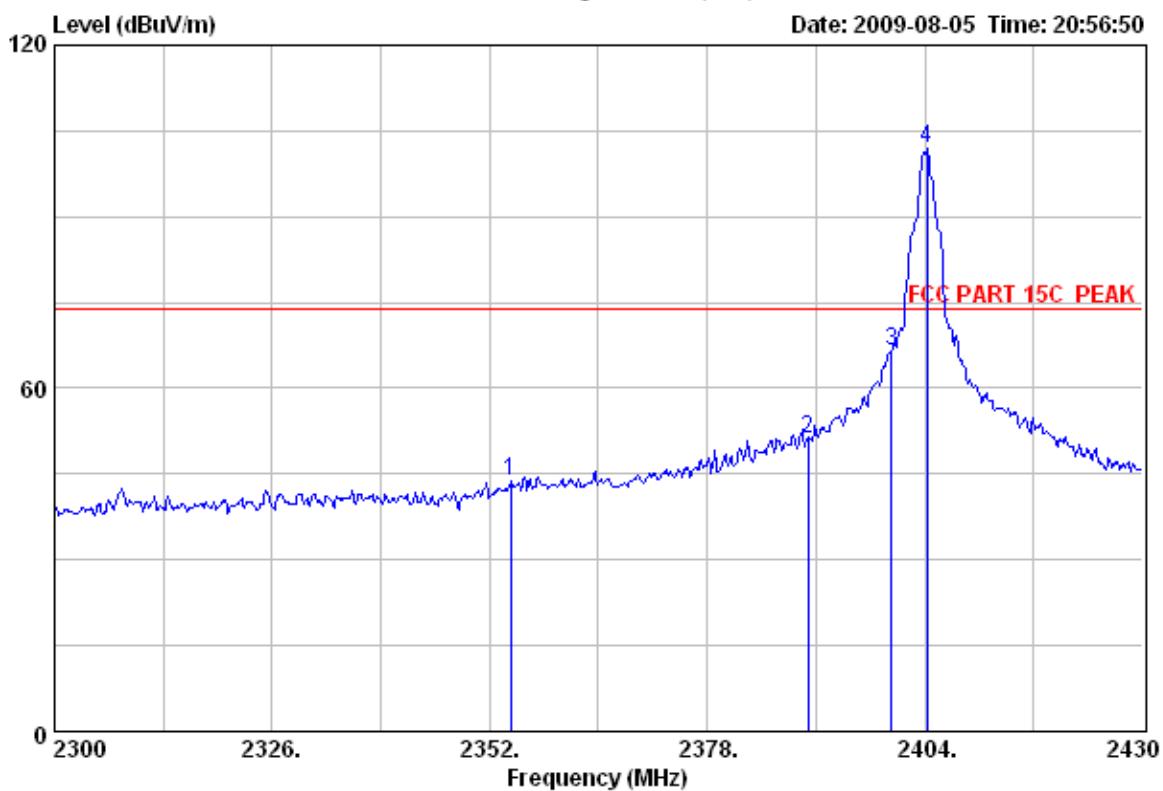
NS Technology

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Data: 97

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 20:56:50



Test Site : 966 Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/ 60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

| Freq.<br>(MHz) | Emission          |                    |                | Ant.  | Cable | Remark    |
|----------------|-------------------|--------------------|----------------|-------|-------|-----------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |       |       |           |
| 1 2354.47      | 43.83             | 74.00              | 30.17          | 10.16 | 31.45 | 2.22 Peak |
| 2 2390.00      | 51.01             | 74.00              | 22.99          | 17.31 | 31.48 | 2.22 Peak |
| 3 2400.00      | 66.46             | 74.00              | 7.54           | 32.73 | 31.50 | 2.23 Peak |
| 4 2404.26      | 101.92            | 74.00              | -27.92         | 68.19 | 31.50 | 2.23 Peak |



## NS Technology

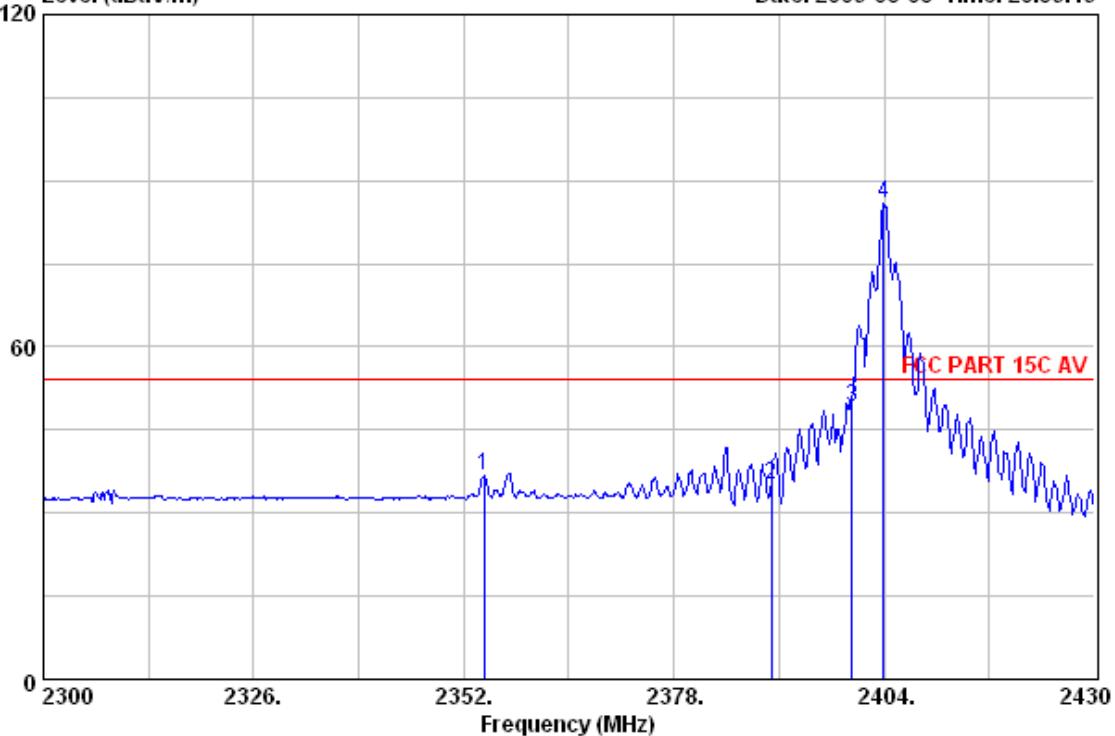
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Data: 98

File: D:\Radiation 10m data\Hhongzhao.EMI (104)

Date: 2009-08-05 Time: 20:59:19

Level (dBuV/m)



Test Site : 966 Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

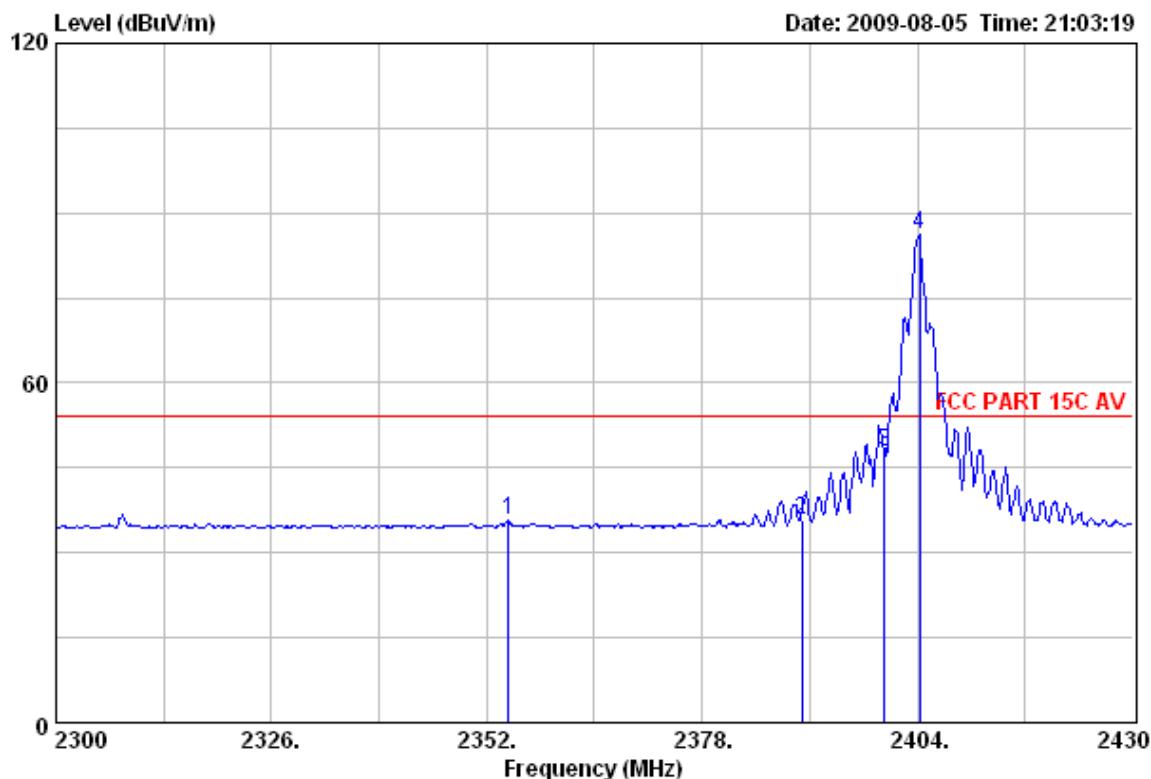
| Freq.<br>(MHz) | Emission          |                    |                | Ant.  | Cable | Remark       |
|----------------|-------------------|--------------------|----------------|-------|-------|--------------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |       |       |              |
| 1 2354.47      | 36.78             | 54.00              | 17.22          | 3.11  | 31.45 | 2.22 Average |
| 2 2390.00      | 34.97             | 54.00              | 19.03          | 1.27  | 31.48 | 2.22 Average |
| 3 2400.00      | 49.18             | 54.00              | 4.82           | 15.45 | 31.50 | 2.23 Average |
| 4 2403.87      | 85.77             | 54.00              | -31.77         | 52.04 | 31.50 | 2.23 Average |



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Data: 99 File: D:\Radiation 10m data\H\hongzhao.EMI (104)



Test Site : 966 Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

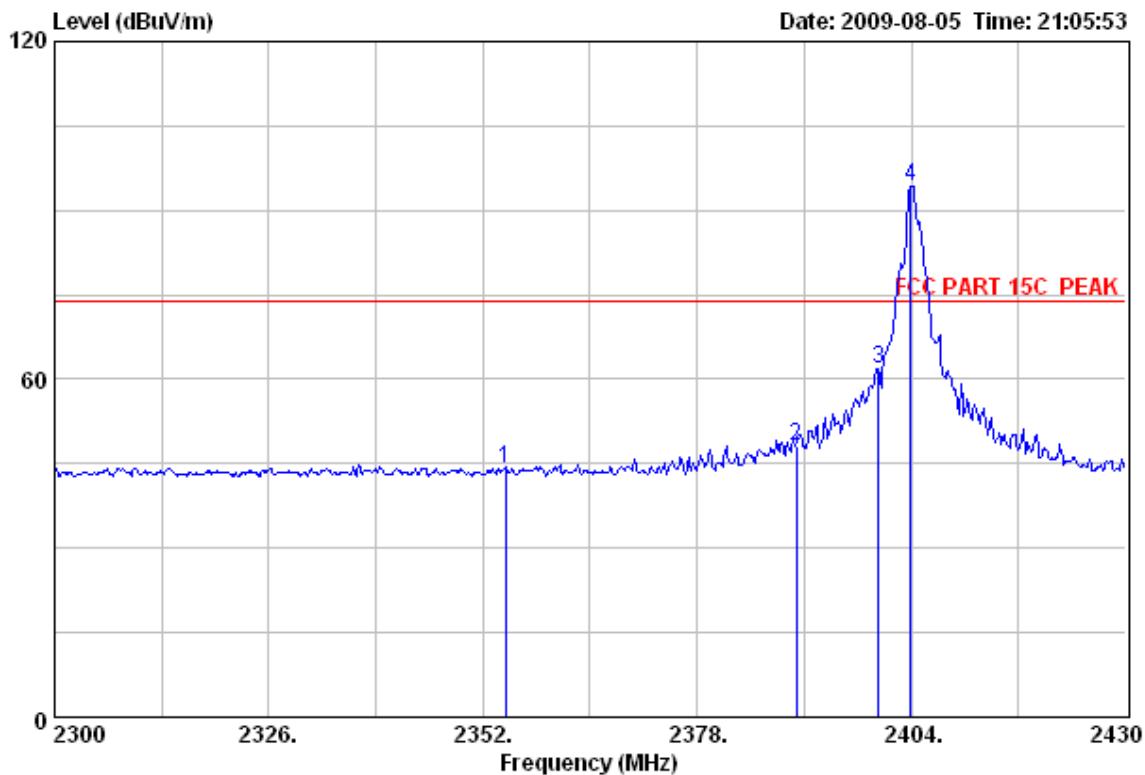
| Emission       |                   |                    |                | Ant.              | Cable            | Remark       |
|----------------|-------------------|--------------------|----------------|-------------------|------------------|--------------|
| Freq.<br>(MHz) | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor<br>(dB/m) |              |
| 1 2354.60      | 35.63             | 54.00              | 18.37          | 1.96              | 31.45            | 2.22 Average |
| 2 2390.00      | 35.76             | 54.00              | 18.24          | 2.06              | 31.48            | 2.22 Average |
| 3 2400.00      | 47.79             | 54.00              | 6.21           | 14.06             | 31.50            | 2.23 Average |
| 4 2404.26      | 86.10             | 54.00              | -32.10         | 52.37             | 31.50            | 2.23 Average |



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Data: 100 File: D:\Radiation 10m data\H\hongzhao.EMI (104)



Test Site : 966 Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CHO

| Emission  |          |          |        | Ant.    | Cable  |      |        |
|-----------|----------|----------|--------|---------|--------|------|--------|
| Freq.     | Level    | Limits   | Margin | Reading | Factor | Loss | Remark |
| (MHz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dBuV)  | (dB/m) | (dB) |        |
| 1 2354.73 | 44.28    | 74.00    | 29.72  | 10.61   | 31.45  | 2.22 | Peak   |
| 2 2390.00 | 48.25    | 74.00    | 25.75  | 14.55   | 31.48  | 2.22 | Peak   |
| 3 2400.00 | 61.85    | 74.00    | 12.15  | 28.12   | 31.50  | 2.23 | Peak   |
| 4 2403.87 | 94.15    | 74.00    | -20.15 | 60.42   | 31.50  | 2.23 | Peak   |



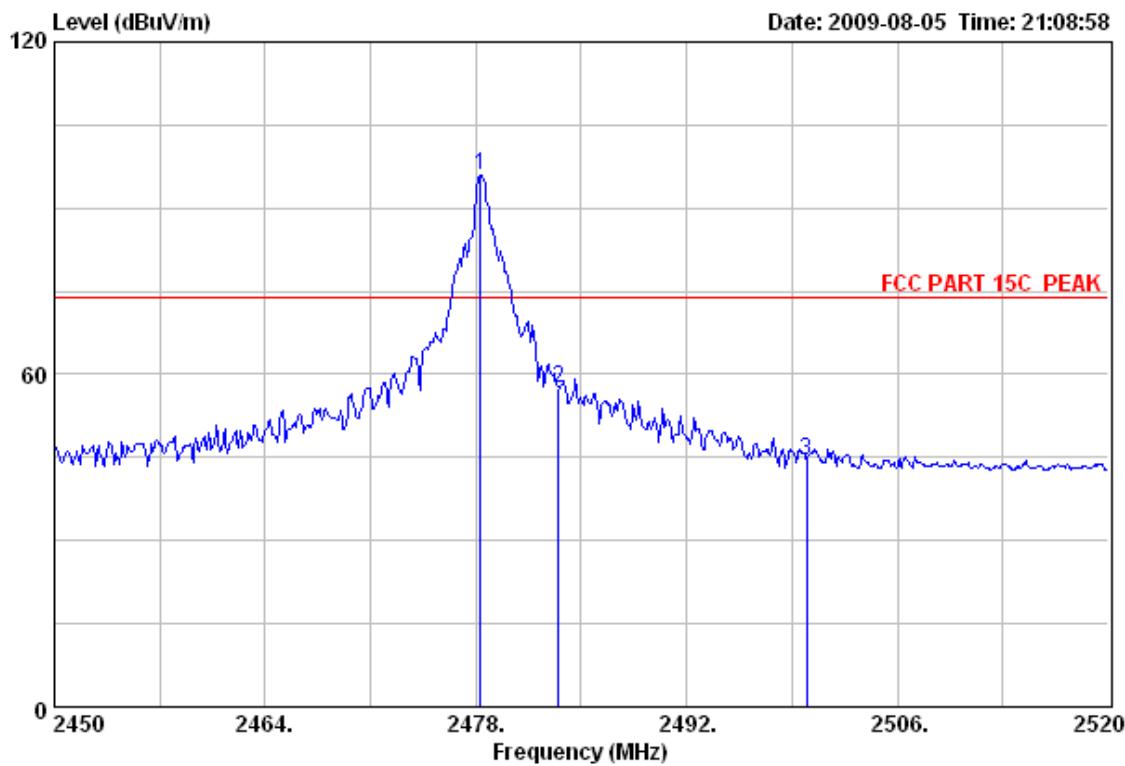
## NS Technology

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Data: 101

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 21:08:58



Test Site : 966 Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Ant. Cable        |                |                | Remark |
|----------------|-------------------|--------------------|----------------|-------------------|----------------|----------------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Reading<br>(dBuV) | Factor<br>(dB) | Loss<br>(dB/m) |        |
| 1 2478.28      | 96.03             | 74.00              | -22.03         | 62.22             | 31.58          | 2.23           | Peak   |
| 2 2483.50      | 57.43             | 74.00              | 16.57          | 23.62             | 31.58          | 2.23           | Peak   |
| 3 2500.00      | 44.50             | 74.00              | 29.50          | 10.67             | 31.60          | 2.23           | Peak   |

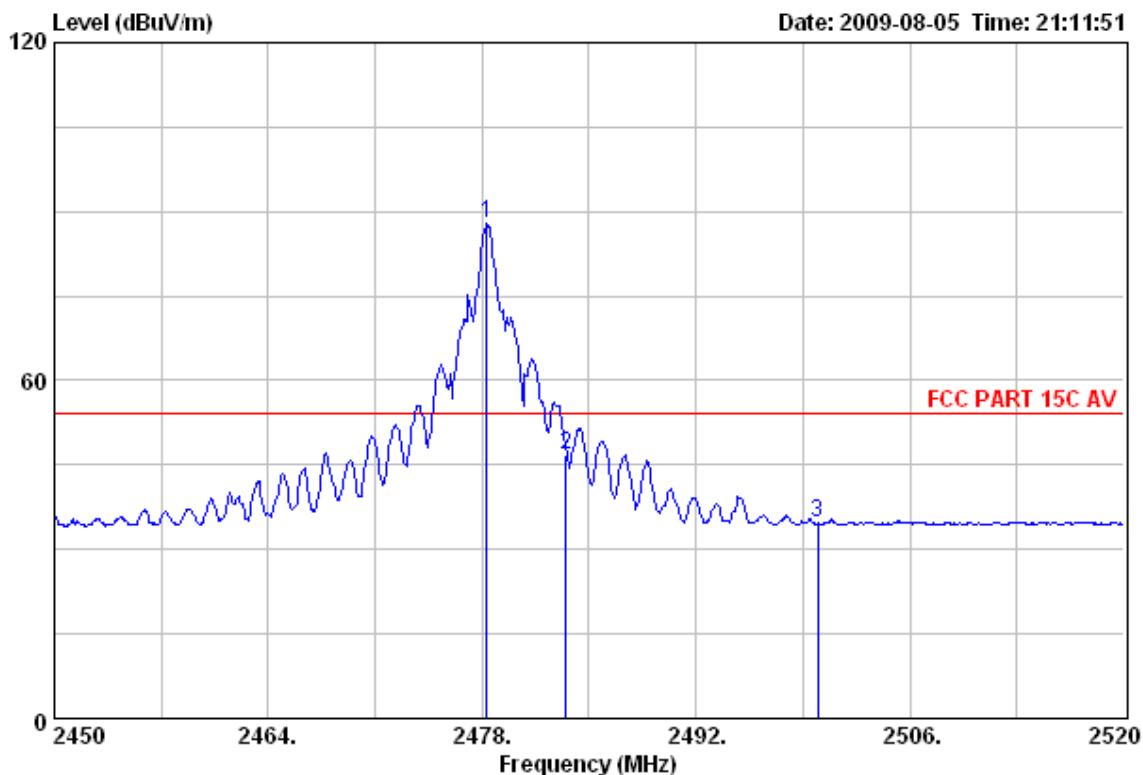


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Data: 102

File: D:\Radiation 10m data\H\hongzhao.EMI (104)



Test Site : 966 Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Margin<br>(dB) | Reading<br>(dBuV) | Ant. Factor<br>(dB/m) | Cable Loss<br>(dB) | Remark  |
|----------------|-------------------|--------------------|----------------|----------------|-------------------|-----------------------|--------------------|---------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |                |                   |                       |                    |         |
| 1 2478.28      | 87.83             | 54.00              | -33.83         | 54.02          | 31.58             | 2.23                  | 2.23               | Average |
| 2 2483.50      | 46.94             | 54.00              | 7.06           | 13.13          | 31.58             | 2.23                  | 2.23               | Average |
| 3 2500.00      | 34.64             | 54.00              | 19.36          | 0.81           | 31.60             | 2.23                  | 2.23               | Average |



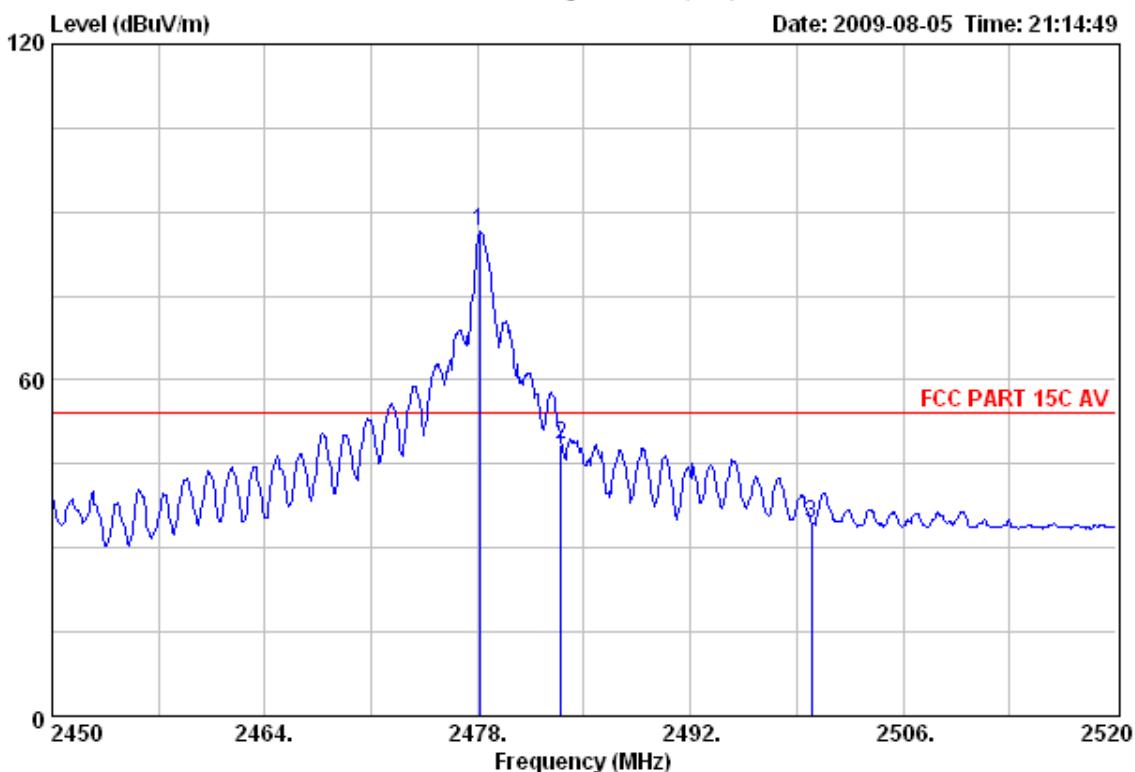
NS Technology

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Data: 103

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 21:14:49



Test Site : 966 Chamber  
 Limit : FCC PART 15C AV  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Ant.  | Cable | Remark       |
|----------------|-------------------|--------------------|----------------|-------|-------|--------------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |       |       |              |
| 1 2478.14      | 86.54             | 54.00              | -32.54         | 52.73 | 31.58 | 2.23 Average |
| 2 2483.50      | 48.36             | 54.00              | 5.64           | 14.55 | 31.58 | 2.23 Average |
| 3 2500.00      | 34.52             | 54.00              | 19.48          | 0.69  | 31.60 | 2.23 Average |



## NS Technology

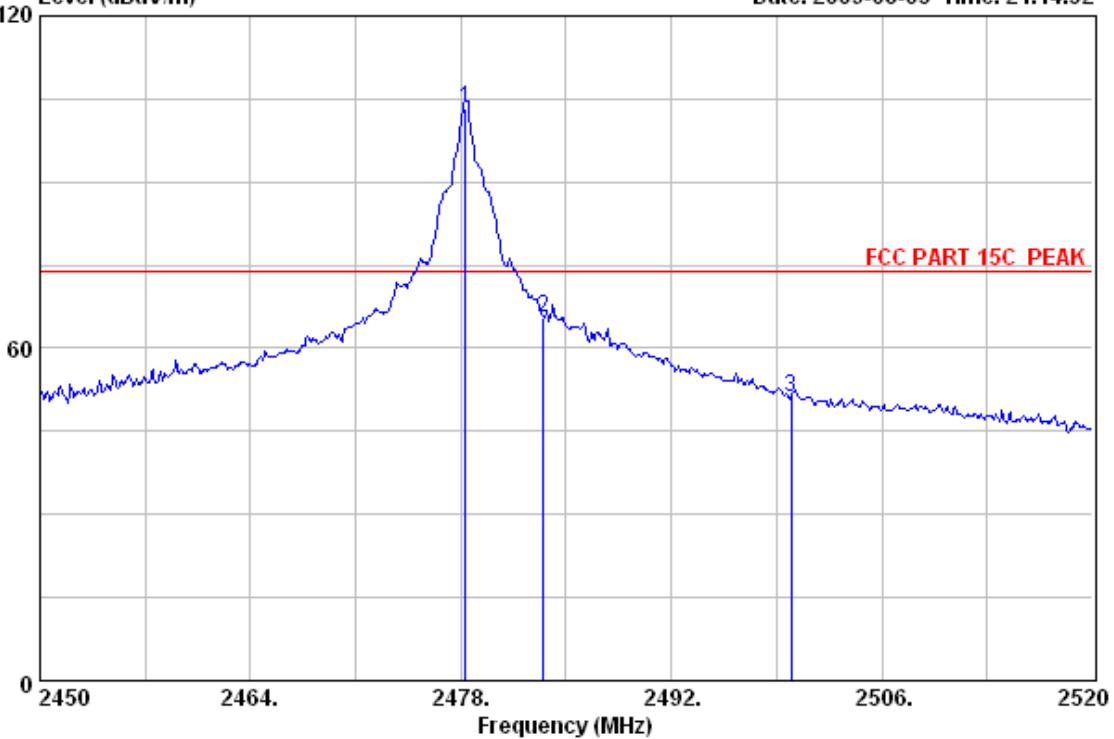
Chenwu Industrial Zone, Houjie Town,  
Dongguan, Guangdong, China  
Tel: +86-769-85935656  
Fax: +86-769-85991080

Data: 104

File: D:\Radiation 10m data\H\hongzhao.EMI (104)

Date: 2009-08-05 Time: 21:14:52

Level (dBuV/m)



Test Site : 966 Chamber  
 Limit : FCC PART 15C PEAK  
 Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL  
 EUT : Wireless Video Door Phone  
 M/N : HZ-A1-INDOOR  
 Power : DC 5V From adapter input AC 120V/60Hz  
 Test Engineer : Jade  
 Comment : Temp.:25.2'C Humi.:56%  
 Test Mode : TX Mode CH63

| Freq.<br>(MHz) | Emission          |                    |                | Ant.  | Cable | Factor | Loss | Remark |
|----------------|-------------------|--------------------|----------------|-------|-------|--------|------|--------|
|                | Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) |       |       |        |      |        |
| 1 2478.28      | 103.25            | 74.00              | -29.25         | 69.44 | 31.58 | 2.23   | 2.23 | Peak   |
| 2 2483.50      | 65.43             | 74.00              | 8.57           | 31.62 | 31.58 | 2.23   | 2.23 | Peak   |
| 3 2500.00      | 51.17             | 74.00              | 22.83          | 17.34 | 31.60 | 2.23   | 2.23 | Peak   |

