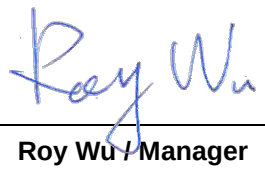
# Variant FCC RF Test Report

| | | |
|---|---|---|
| APPLICANT | : | Meru Networks Inc. |
| EQUIPMENT | : | Multi Radio 802.11a/b/g/n Wireless LAN Access Point |
| BRAND NAME | : | Meru Networks Inc. |
| MODEL NAME | : | AP302, AP310, AP311, AP320 |
| FCC ID | : | RE7-AP300 |
| STANDARD | : | FCC Part 15 Subpart C §15.247 |
| CLASSIFICATION | : | Digital Transmission System (DTS) |

**This is a variant report which is only valid combined with the original test report. The product was received on Dec. 24, 2009 and completely tested on Jan. 06, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.**

**The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.**

**Reviewed by:**



**Roy Wu / Manager**

Testing Laboratory 1190

***SPORTON INTERNATIONAL INC.***
***No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.***

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# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FR9D2415A | Rev. 01 | This is a variant report which can be referred to appendix C for product equality declaration. All the test cases were performed on original report which can be referred to appendix D. Based on the original report, only AC Conducted Emission and Radiated Emission was verified. | Jan. 11, 2010 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|---|
| 3.1 | 15.247(d) | A8.5 | Frequency Band Edges | ≤ 20dBc | Pass | - |
| 3.2 | 15.207 | Gen 7.2.2 | AC Conducted Emission | 15.207(a) | Pass | Under limit 6.5 dB at 0.478 MHz |
| 3.3 | 15.247(d) | A8.5 | Transmitter Radiated Emission | 15.209(a) & 15.247(d) | Pass | Under limit 0.33 dB at 2483.66 MHz |
| 3.4 | 15.203 & 15.247(b) | A8.4 | Antenna Requirement | N/A | Pass | - |

# 1 General Description

## 1.1 Applicant

**Meru Networks Inc.**
894 Ross Drive Sunnyvale, CA 94089 USA

## 1.2 Manufacturer

**Universal Scientific Industrial (Shanghai)**
No. 1558, Zhang Dong Road, Zhangjiang Hi-Tech Park, Shanghai, P.R. China 201203

## 1.3 Feature of Equipment Under Test

| Product Feature & Specification | |
|---|---|
| **Equipment** | Multi Radio 802.11a/b/g/n Wireless LAN Access Point |
| **Brand Name** | Meru Networks Inc. |
| **Model Name** | AP302, AP310, AP311, AP320 |
| **FCC ID** | RE7-AP300 |
| **Tx/Rx Frequency Range** | 802.11b/g/n : 2400 MHz ~ 2483.5 MHz<br>802.11a/n : 5725 MHz ~ 5850 MHz |
| **Channel Spacing** | 802.11b/g : 5 MHz<br>802.11a : 20 MHz |
| **HW Version** | AP300 |
| **SW Version** | 3.6.1-41 |
| **Type of Modulation** | 802.11b : DSSS (BPSK / QPSK / CCK)<br>802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) |
| **EUT Stage** | Production Unit |

**Remark:**

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Digital Transmission System (DTS).

**List of Accessory:**

| Specification of Accessory | | |
|---|---|---|
| **Antenna 1** | **Model Name** | S24493TS |
| | **Antenna Type** | Panel Antenna |
| | **Antenna Gain** | 3.0 dBi for WLAN (2.4G) ; 4.0 dBi for WLAN (5G) |
| **Antenna 2** | **Model Name** | M6025040M01 D2420M |
| | **Antenna Type** | Panel Antenna |
| | **Antenna Gain** | 2.5 dBi for WLAN (2.4G) ; 4.0 dBi for WLAN (5G) |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. For accessories equipped with this EUT, please refer to the appendix of the external photo.

## 1.4 Testing Site

| | | | |
|---|---|---|---|
| **Test Site** | SPORTON INTERNATIONAL INC. | | |
| **Test Site Location** | No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,<br>Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.<br>TEL: +886-3-3273456 / FAX: +886-3-3284978 | | |
| **Test Site No.** | **Sporton Site No.** | | **FCC/IC Registration No.** |
| | CO05-HY | 03CH07HY | TW1022/4086B-1 |

## 1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ANSI C63.4-2003
- IC RSS-210 Issue 7

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

## 1.6 Ancillary Equipment List

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | AC Adapter 1 | UMEC | UP0251P-05PA | N/A | N/A | Shielded, 1.8 m |
| 2. | AC Adapter 2 (for POE) | UMEC | UP0151D-48P | N/A | N/A | Shielded, 1.8 m |
| 3. | POE | PLANET | POE-152 | N/A | N/A | N/A |
| 4. | Notebook | DELL | Vostro 1510 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 5. | Notebook | ASUS | F9E | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 6. | Notebook | Acer | MS2180 | QDS-BRCM1018 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |

# 2 Test Configuration of Equipment Under Test

## 2.1 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests were conducted to determine the final configuration from all possible combinations. The following table is showing the total pre-scanned test modes, and the worst modes are recorded in this report only.

| Test Cases | |
|---|---|
| **Test Item** | **802.11b (Modulation : DSSS)**<br>**802.11a/g/n (Modulation : OFDM)** |
| **Radiated TCs** | Mode 1: 802.11b_CH01_2412 MHz for WLAN 1 and Antenna 1<br>Mode 2: 802.11b_CH06_2437 MHz for WLAN 1 and Antenna 1<br>Mode 3: 802.11b_CH11_2462 MHz for WLAN 1 and Antenna 1<br>Mode 4: 802.11g_CH01_2412 MHz for WLAN 1 and Antenna 1<br>Mode 5: 802.11g_CH06_2437 MHz for WLAN 1 and Antenna 1<br>Mode 6: 802.11g_CH11_2462 MHz for WLAN 1 and Antenna 1<br>Mode 7: 802.11g_CH11_2462 MHz for WLAN 1 and Antenna 2<br>Mode 8: 802.11n(g)_CH01_2412 MHz (BW 20MHz) for WLAN 1 and Antenna 1<br>Mode 9: 802.11n(g)_CH06_2437 MHz (BW 20MHz) for WLAN 1 and Antenna 1<br>Mode 10: 802.11n(g)_CH11_2462 MHz (BW 20MHz) for WLAN 1 and Antenna 1<br>Mode 11: 802.11n(g)_CH03_2422 MHz (BW 40MHz) for WLAN 1 and Antenna 1<br>Mode 12: 802.11n(g)_CH09_2452 MHz (BW 40MHz) for WLAN 1 and Antenna 1<br>Mode 13: 802.11n(g)_CH09_2452 MHz (BW 40MHz) for WLAN 2 and Antenna 1<br>Mode 14: 802.11a_CH149_5745 MHz for WLAN 1 and Antenna 1<br>Mode 15: 802.11a_CH157_5785 MHz for WLAN 1 and Antenna 1<br>Mode 16: 802.11a_CH165_5825 MHz for WLAN 1 and Antenna 1<br>Mode 17: 802.11a_CH165_5825 MHz for WLAN 1 and Antenna 2<br>Mode 18: 802.11n(a)_CH149_5745 MHz (BW 20MHz) for WLAN 1 and Antenna 1<br>Mode 19: 802.11n(a)_CH157_5785 MHz (BW 20MHz) for WLAN 1 and Antenna 1<br>Mode 20: 802.11n(a)_CH165_5825 MHz (BW 20MHz) for WLAN 1 and Antenna 1<br>Mode 21: 802.11n(a)_CH165_5825 MHz (BW 20MHz) for WLAN 2 and Antenna 1<br>Mode 22: 802.11n(a)_CH151_5755 MHz (BW 40MHz) for WLAN 1 and Antenna 1<br>Mode 23: 802.11n(a)_CH159_5795 MHz (BW 40MHz) for WLAN 1 and Antenna 1<br>Mode 24: 802.11g_CH11_2462 MHz for WLAN 1 and Antenna 1 +<br>802.11g_CH11_2462 MHz for WLAN 2 and Antenna 1<br>Mode 25: 802.11n(a)_CH165_5825 MHz (BW 20MHz) for WLAN 1 and Antenna 1 +<br>802.11n(a)_CH165_5825 MHz (BW 20MHz) for WLAN 2 and Antenna 1 |

| Test Cases | |
|---|---|
| **AC Conducted Emission** | Mode 1 : WLAN 1 (2.4G) Link + WLAN 2 (2.4G) Link + LAN Link + Adapter 1<br>Mode 2 : WLAN 1 (5G) Link + WLAN 2 (5G) Link + POE + LAN Link + Adapter 2 |

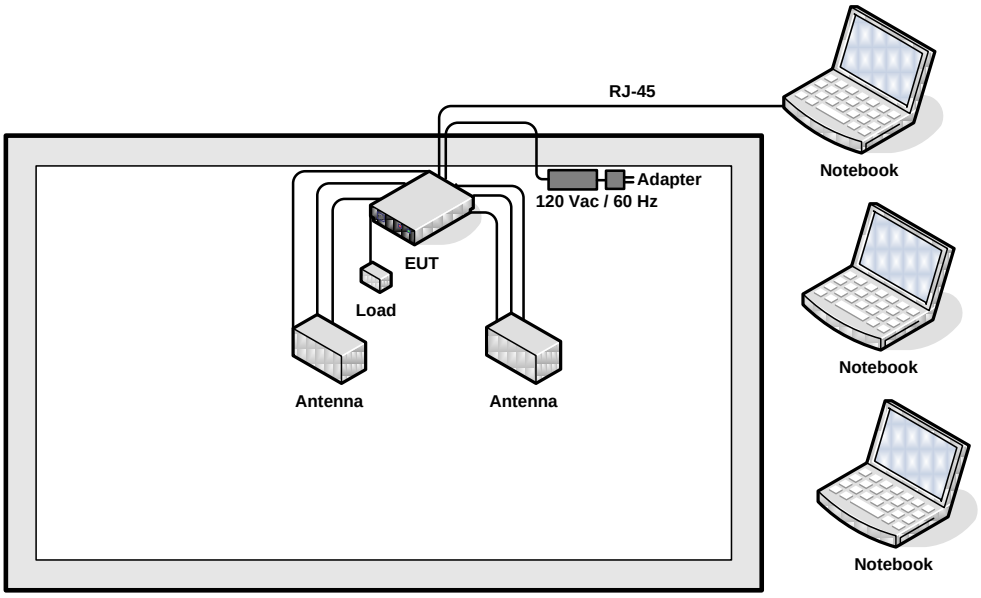
**Remark:**

1. The worst case of AC conducted emission is mode 1; only the test data of it was reported.
2. Only Antenna 1 was used for AC conducted emission test.
3. The EUT has two modules which have the same design, and they can transmit simultaneously.
4. The WLAN 1 (module 1) was tested for full test modes, the WLAN 2 (module 2) was tested based on the worst case of WLAN 1, and the worst case for co-location were mode 24 and 25.

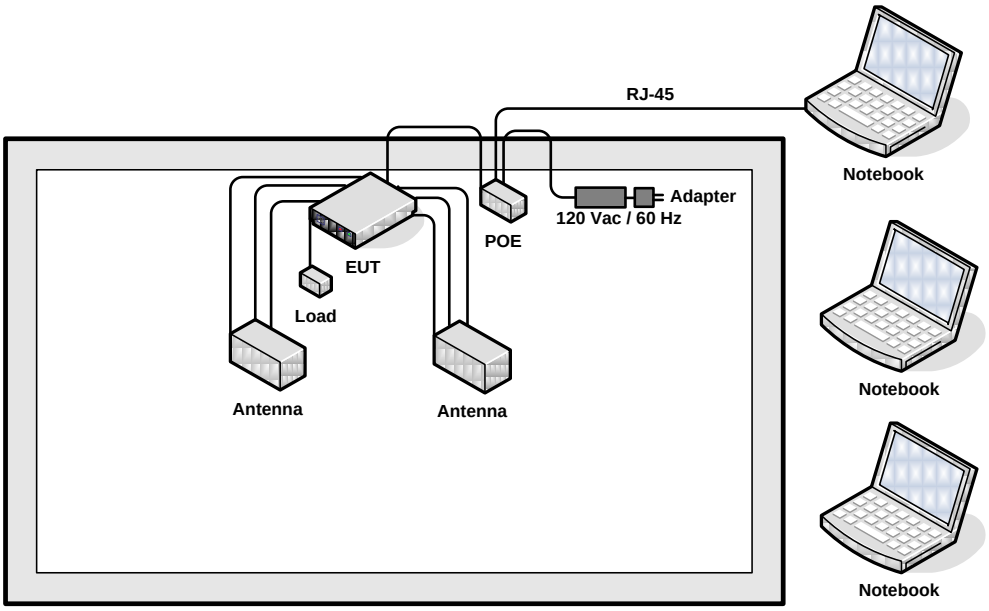
## 2.2 Connection Diagram of Test System

**<Conduction Test>**

EUT with Adapter Mode

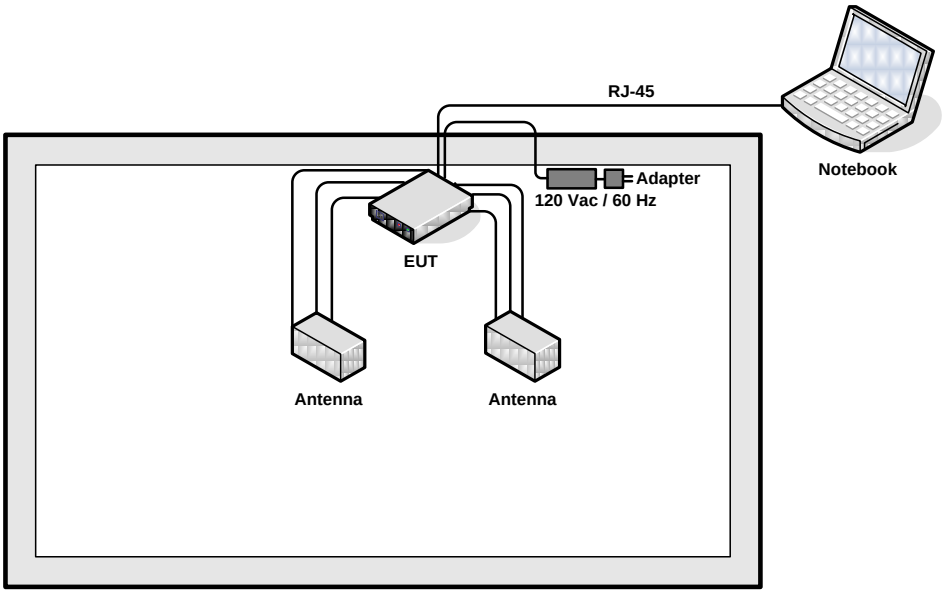


EUT with POE and Adapter Mode

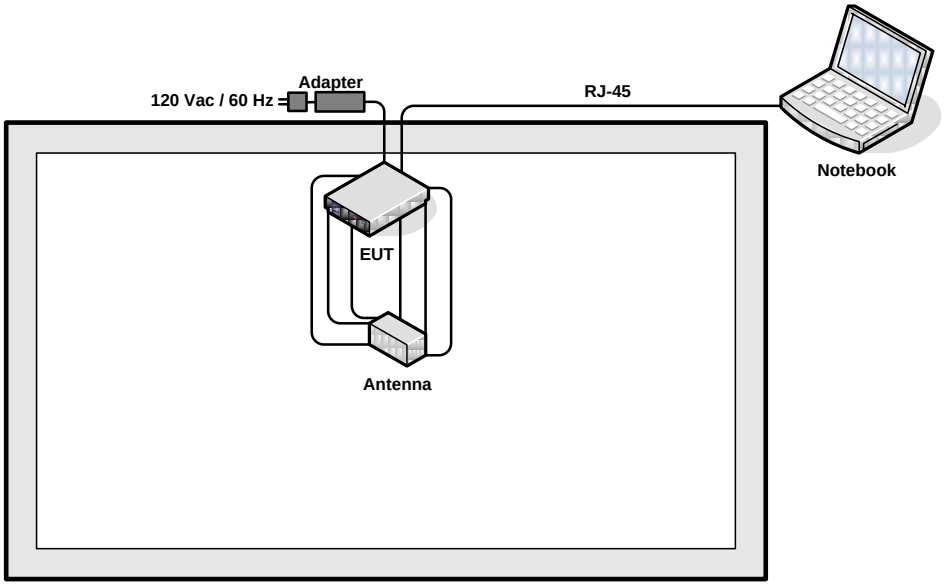



**<Radiation Test>**

EUT with Antenna 1



EUT with Antenna 2




## 2.3 RF Utility

The programmed RF utility “ART”, is installed in notebook to provide channel selection, power level, data rate and the application type. RF utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

# 3 Test Result

## 3.1 Band Edges Measurement

### 3.1.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

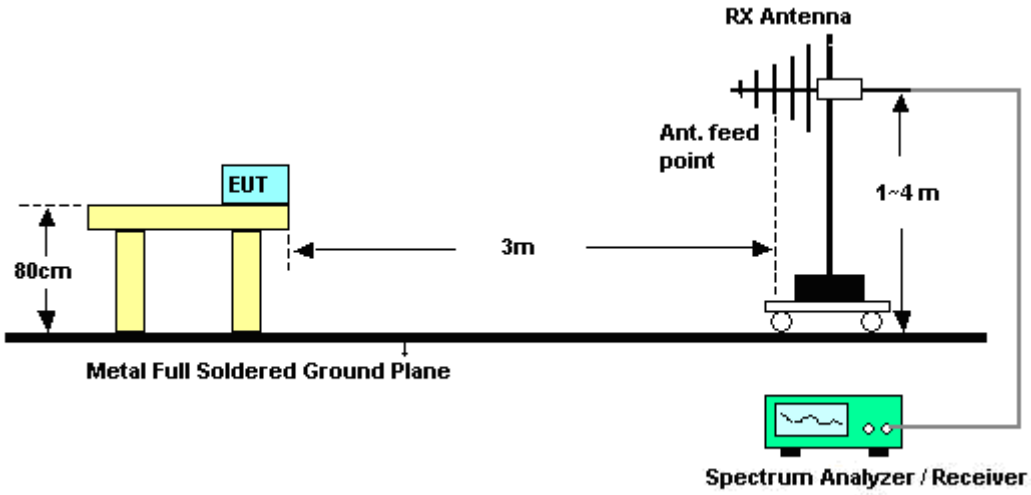
### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.1.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Conducted emission test: Set RBW = 100 kHz, Video bandwidth (VBW) > RBW. Band edge emissions must be at least 20 dB below the highest emission level within the authorized band as measured with a 100 kHz RBW. Note: If the output power of this device was measured by power meter, the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Apply to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep=Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation as in FCC Section 15.35(b) and (c).

### 3.1.4 Test Setup



### 3.1.5 Test Result of Radiated Band Edges

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 1 | **Temperature :** | 19~20°C |
| **Test Band :** | 802.11b | **Relative Humidity :** | 48~49% |
| **Test Channel :** | 01 | **Test Engineer :** | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2385.81 | 52.24 | -21.76 | 74.00 | 48.80 | 32.13 | 5.46 | 34.15 | 162 | 57 | Peak |
| 2385.81 | 42.96 | -11.04 | 54.00 | 39.52 | 32.13 | 5.46 | 34.15 | 162 | 57 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2387.33 | 57.38 | -16.62 | 74.00 | 53.94 | 32.13 | 5.46 | 34.15 | 100 | 6 | Peak |
| 2387.00 | 45.77 | -8.23 | 54.00 | 42.33 | 32.13 | 5.46 | 34.15 | 100 | 6 | Average |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 3 | **Temperature :** | 19~20°C |
| **Test Band :** | 802.11b | **Relative Humidity :** | 48~49% |
| **Test Channel :** | 11 | **Test Engineer :** | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2489.74 | 51.27 | -22.73 | 74.00 | 47.79 | 32.30 | 5.37 | 34.19 | 100 | 54 | Peak |
| 2489.74 | 39.28 | -14.72 | 54.00 | 35.80 | 32.30 | 5.37 | 34.19 | 100 | 54 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2486.13 | 53.73 | -20.27 | 74.00 | 50.26 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 2486.13 | 43.67 | -10.33 | 54.00 | 40.20 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |

| Test Mode : | Mode 4 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11g | Relative Humidity : | 48~49% |
| Test Channel : | 01 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2389.99 | 65.09 | -8.91 | 74.00 | 61.66 | 32.13 | 5.46 | 34.16 | 163 | 59 | Peak |
| 2389.99 | 46.61 | -7.39 | 54.00 | 43.18 | 32.13 | 5.46 | 34.16 | 163 | 59 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2389.99 | 71.06 | -2.94 | 74.00 | 67.63 | 32.13 | 5.46 | 34.16 | 100 | 6 | Peak |
| 2389.99 | 51.45 | -2.55 | 54.00 | 48.02 | 32.13 | 5.46 | 34.16 | 100 | 6 | Average |

| Test Mode : | Mode 6 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11g | Relative Humidity : | 48~49% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2484.42 | 69.93 | -4.07 | 74.00 | 66.46 | 32.27 | 5.38 | 34.19 | 100 | 51 | Peak |
| 2484.42 | 47.61 | -6.39 | 54.00 | 44.14 | 32.27 | 5.38 | 34.19 | 100 | 51 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.66 | 73.67 | -0.33 | 74.00 | 70.20 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 2483.66 | 53.35 | -0.65 | 54.00 | 49.88 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |

| Test Mode : | Mode 7 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11g | Relative Humidity : | 48~49% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.66 | 72.26 | -1.74 | 74.00 | 68.79 | 32.27 | 5.38 | 34.19 | 100 | 318 | Peak |
| 2483.66 | 52.71 | -1.29 | 54.00 | 49.24 | 32.27 | 5.38 | 34.19 | 100 | 318 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.50 | 68.93 | -5.07 | 74.00 | 65.46 | 32.27 | 5.38 | 34.19 | 100 | 242 | Peak |
| 2483.50 | 46.74 | -7.26 | 54.00 | 43.27 | 32.27 | 5.38 | 34.19 | 100 | 242 | Average |

| Test Mode : | Mode 8 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11n(g) (BW 20MHz) | Relative Humidity : | 48~49% |
| Test Channel : | 01 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2389.61 | 58.40 | -15.60 | 74.00 | 54.96 | 32.13 | 5.46 | 34.15 | 163 | 57 | Peak |
| 2389.61 | 40.74 | -13.26 | 54.00 | 37.30 | 32.13 | 5.46 | 34.15 | 163 | 57 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2389.99 | 62.81 | -11.19 | 74.00 | 59.38 | 32.13 | 5.46 | 34.16 | 100 | 11 | Peak |
| 2389.99 | 45.89 | -8.11 | 54.00 | 42.46 | 32.13 | 5.46 | 34.16 | 100 | 11 | Average |

| Test Mode : | Mode 10 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11n(g) (BW 20MHz) | Relative Humidity : | 48~49% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.66 | 59.40 | -14.60 | 74.00 | 55.93 | 32.27 | 5.38 | 34.19 | 127 | 53 | Peak |
| 2483.66 | 41.43 | -12.57 | 54.00 | 37.96 | 32.27 | 5.38 | 34.19 | 127 | 53 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2485.18 | 61.82 | -12.18 | 74.00 | 58.35 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 2485.18 | 45.93 | -8.07 | 54.00 | 42.46 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |

| Test Mode : | Mode 11 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11n(g) (BW 40MHz) | Relative Humidity : | 48~49% |
| Test Channel : | 03 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2387.33 | 63.77 | -10.23 | 74.00 | 60.33 | 32.13 | 5.46 | 34.15 | 106 | 58 | Peak |
| 2387.33 | 44.80 | -9.20 | 54.00 | 41.36 | 32.13 | 5.46 | 34.15 | 106 | 58 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2388.66 | 70.37 | -3.63 | 74.00 | 66.93 | 32.13 | 5.46 | 34.15 | 100 | 4 | Peak |
| 2388.66 | 43.76 | -10.24 | 54.00 | 40.32 | 32.13 | 5.46 | 34.15 | 100 | 4 | Average |

| Test Mode : | Mode 12 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11n(g) (BW 40MHz) | Relative Humidity : | 48~49% |
| Test Channel : | 09 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.66 | 65.51 | -8.49 | 74.00 | 62.04 | 32.27 | 5.38 | 34.19 | 133 | 52 | Peak |
| 2483.66 | 45.40 | -8.60 | 54.00 | 41.93 | 32.27 | 5.38 | 34.19 | 133 | 52 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.66 | 69.42 | -4.58 | 74.00 | 65.95 | 32.27 | 5.38 | 34.19 | 100 | 10 | Peak |
| 2483.66 | 51.14 | -2.86 | 54.00 | 47.67 | 32.27 | 5.38 | 34.19 | 100 | 10 | Average |

| Test Mode : | Mode 13 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11n(g) (BW 40MHz) | Relative Humidity : | 48~49% |
| Test Channel : | 09 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.50 | 69.31 | -4.69 | 74.00 | 65.84 | 32.27 | 5.38 | 34.19 | 100 | 52 | Peak |
| 2483.50 | 50.95 | -3.05 | 54.00 | 47.48 | 32.27 | 5.38 | 34.19 | 100 | 52 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2485.94 | 72.82 | -1.18 | 74.00 | 69.35 | 32.27 | 5.38 | 34.19 | 100 | 0 | Peak |
| 2485.94 | 53.05 | -0.95 | 54.00 | 49.58 | 32.27 | 5.38 | 34.19 | 100 | 0 | Average |

| Test Mode : | Mode 24 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Band : | 802.11g | Relative Humidity : | 48~49% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.85 | 71.82 | -2.18 | 74.00 | 68.35 | 32.27 | 5.38 | 34.19 | 163 | 56 | Peak |
| 2483.85 | 50.94 | -3.06 | 54.00 | 47.47 | 32.27 | 5.38 | 34.19 | 163 | 56 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2484.61 | 71.27 | -2.73 | 74.00 | 67.80 | 32.27 | 5.38 | 34.19 | 100 | 350 | Peak |
| 2484.61 | 47.63 | -6.37 | 54.00 | 44.16 | 32.27 | 5.38 | 34.19 | 100 | 350 | Average |

## 3.2 AC Conducted Emission Measurement

### 3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (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 the limits in the following table.

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|---|---|---|
| | Quasi-Peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

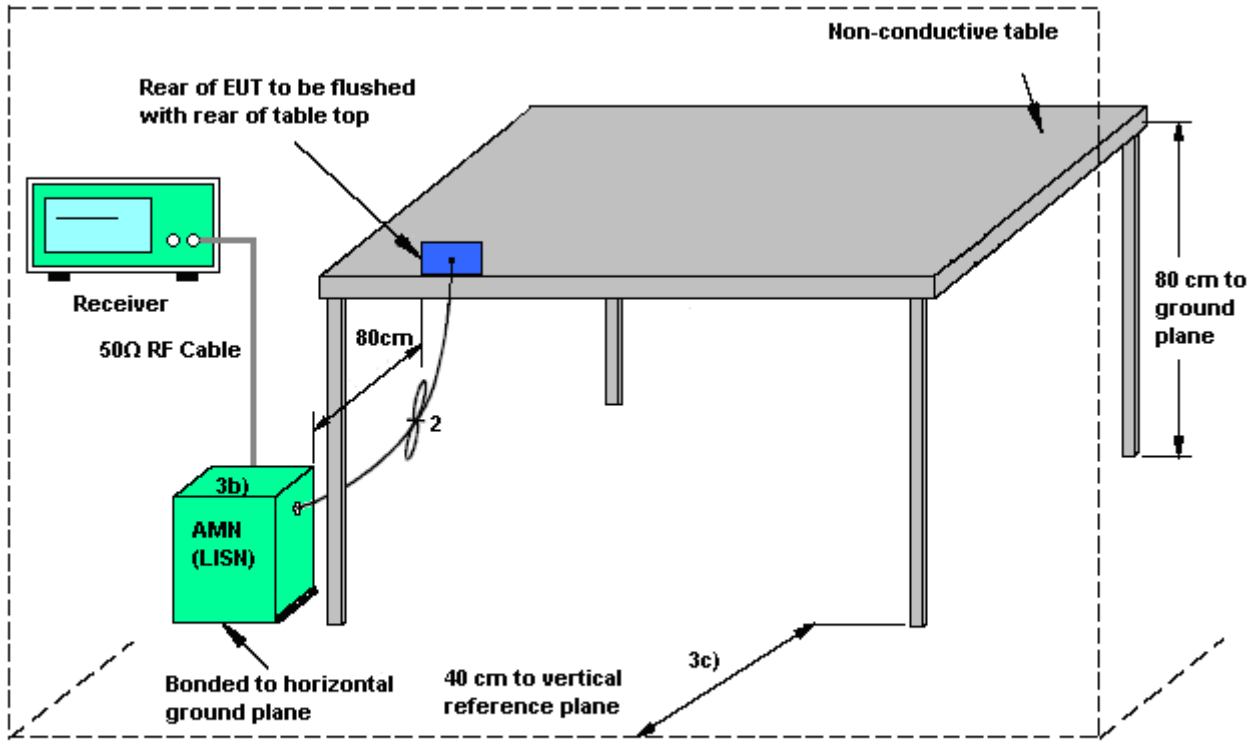
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

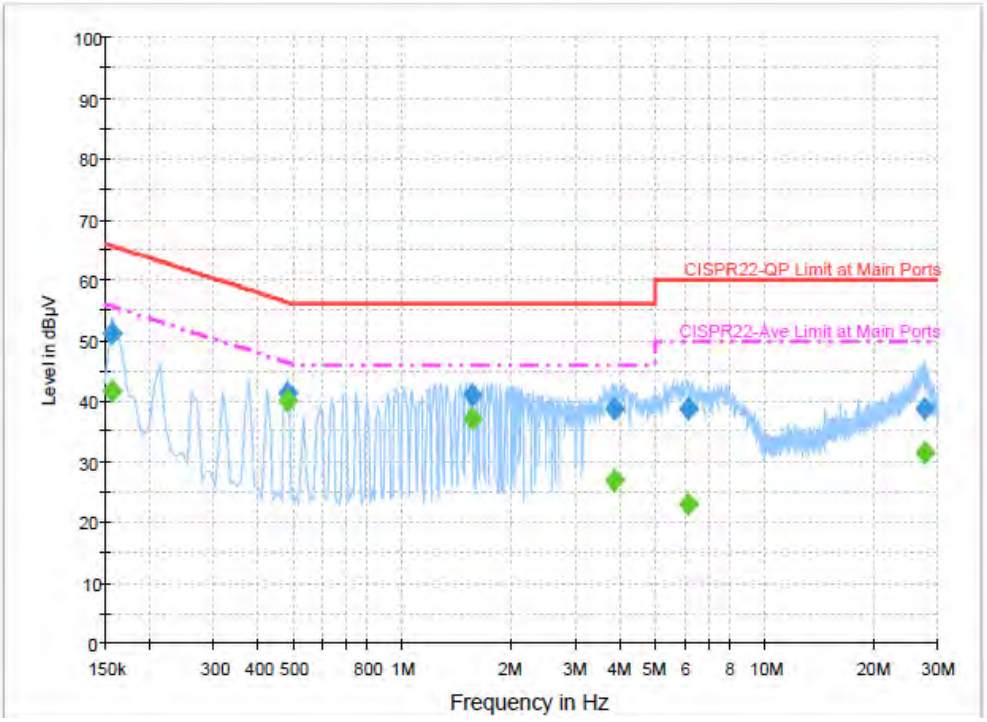
### 3.2.4 Test Setup




AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

### 3.2.5 Test Result of AC Conducted Emission

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 1 | **Temperature :** | 20~22℃ |
| **Test Engineer :** | Hayden Wu | **Relative Humidity :** | 42~45% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Line |
| **Function Type :** | WLAN 1 (2.4G) Link + WLAN 2 (2.4G) Link + LAN Link + Adapter 1 | | |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



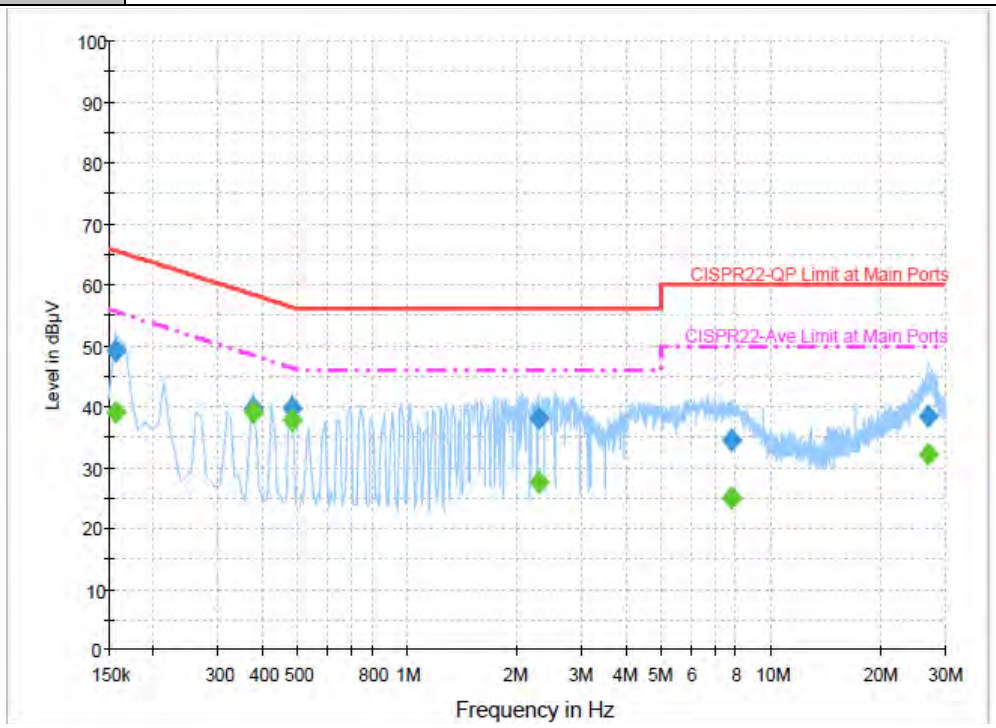

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 51.3 | Off | L1 | 19.5 | 14.3 | 65.6 |
| 0.478000 | 41.4 | Off | L1 | 19.4 | 15.0 | 56.4 |
| 1.550000 | 41.0 | Off | L1 | 19.5 | 15.0 | 56.0 |
| 3.854000 | 38.7 | Off | L1 | 19.5 | 17.3 | 56.0 |
| 6.158000 | 38.6 | Off | L1 | 19.5 | 21.4 | 60.0 |
| 27.574000 | 38.7 | Off | L1 | 19.7 | 21.3 | 60.0 |

**Final Result 2**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 41.7 | Off | L1 | 19.5 | 13.9 | 55.6 |
| 0.478000 | 39.9 | Off | L1 | 19.4 | 6.5 | 46.4 |
| 1.550000 | 37.0 | Off | L1 | 19.5 | 9.0 | 46.0 |
| 3.854000 | 26.9 | Off | L1 | 19.5 | 19.1 | 46.0 |
| 6.158000 | 22.9 | Off | L1 | 19.5 | 27.1 | 50.0 |
| 27.574000 | 31.3 | Off | L1 | 19.7 | 18.7 | 50.0 |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 1 | **Temperature :** | 20~22℃ |
| **Test Engineer :** | Hayden Wu | **Relative Humidity :** | 42~45% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Neutral |
| **Function Type :** | WLAN 1 (2.4G) Link + WLAN 2 (2.4G) Link + LAN Link + Adapter 1 | | |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 49.3 | Off | N | 19.5 | 16.3 | 65.6 |
| 0.374000 | 39.5 | Off | N | 19.4 | 18.9 | 58.4 |
| 0.478000 | 39.7 | Off | N | 19.4 | 16.7 | 56.4 |
| 2.294000 | 38.0 | Off | N | 19.5 | 18.0 | 56.0 |
| 7.774000 | 34.5 | Off | N | 19.6 | 25.5 | 60.0 |
| 26.998000 | 38.3 | Off | N | 19.9 | 21.7 | 60.0 |

**Final Result 2**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 38.9 | Off | N | 19.5 | 16.7 | 55.6 |
| 0.374000 | 39.2 | Off | N | 19.4 | 9.2 | 48.4 |
| 0.478000 | 37.8 | Off | N | 19.4 | 8.6 | 46.4 |
| 2.294000 | 27.7 | Off | N | 19.5 | 18.3 | 46.0 |
| 7.774000 | 24.8 | Off | N | 19.6 | 25.2 | 50.0 |
| 26.998000 | 32.2 | Off | N | 19.9 | 17.8 | 50.0 |

## 3.3 Radiated Emission Measurement

### 3.3.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 3.3.2 Measuring Instruments

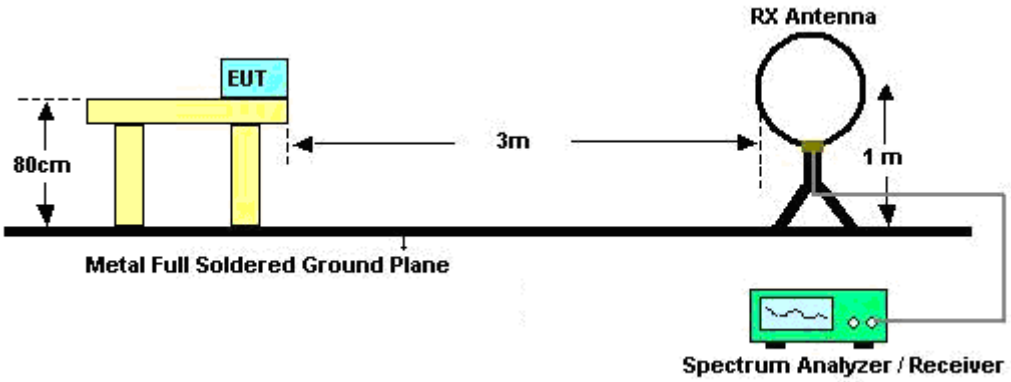
See list of measuring instruments of this test report.

### 3.3.3 Test Procedures

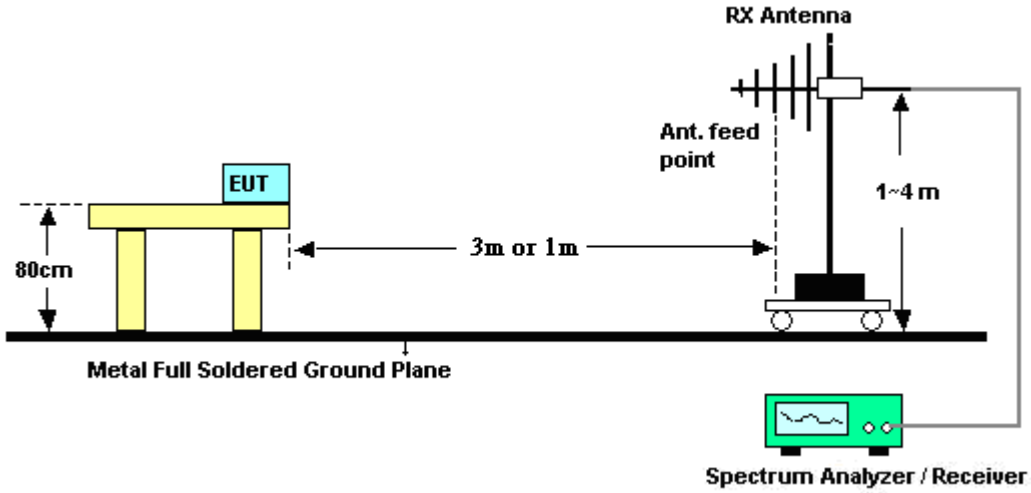
1. The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Use the following spectrum analyzer settings:
   (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
   (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
   Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB)
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

### 3.3.4 Test Setup

**For radiated emissions below 30MHz**




**For radiated emissions above 30MHz**



### 3.3.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

| Test Engineer : | Kay Wu | Temperature : | 19~20°C |
|---|---|---|---|
| | | Relative Humidity : | 48~49% |

| Frequency (MHz) | Level (dBuV) | Over Limit (dB) | Limit Line (dBuV) | Remark |
|---|---|---|---|---|
| - | - | - | - | See Note |

**Note:**

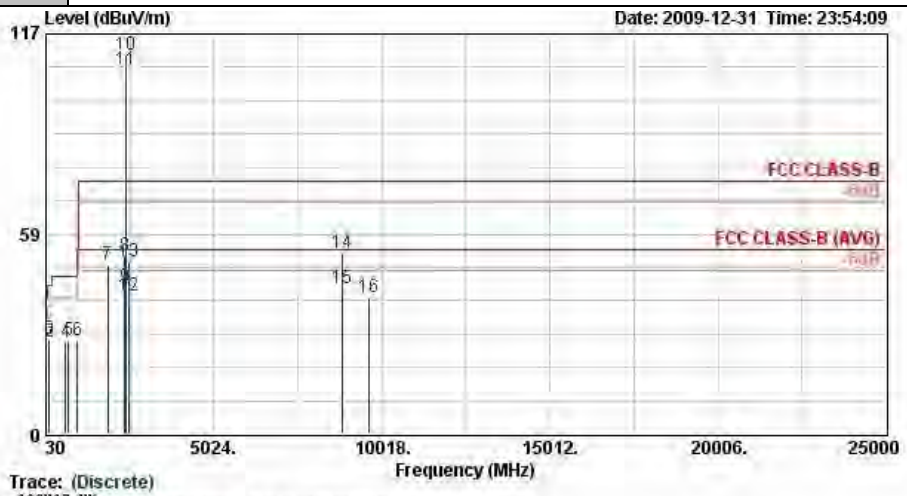
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

### 3.3.6 Test Result of Radiated Emission

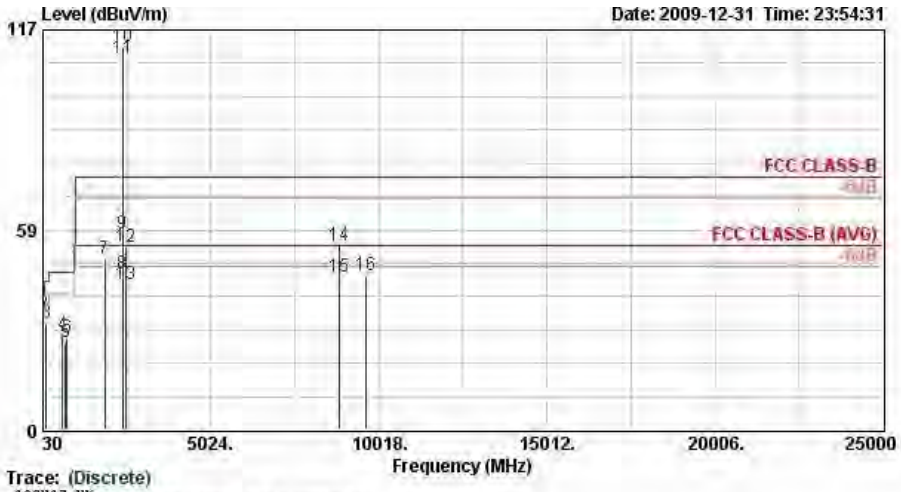
| Test Mode : | Mode 1 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B 5HF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 29.70 | -10.30 | 40.00 | 49.76 | 10.92 | 0.72 | 31.70 | 100 | 267 | Peak |
| 2 | | 125.85 | 26.76 | -16.74 | 43.50 | 45.27 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | | 135.57 | 27.75 | -15.75 | 43.50 | 46.30 | 11.73 | 1.39 | 31.66 | --- | --- | Peak |
| 4 | | 624.10 | 26.83 | -19.17 | 46.00 | 34.24 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 696.90 | 27.38 | -18.62 | 46.00 | 33.92 | 20.82 | 3.54 | 30.90 | --- | --- | Peak |
| 6 | | 957.30 | 27.49 | -18.51 | 46.00 | 29.81 | 24.04 | 4.28 | 30.64 | --- | --- | Peak |
| 7 | | 1878.00 | 49.50 | -24.50 | 74.00 | 47.46 | 30.66 | 5.41 | 34.03 | 100 | 0 | Peak |
| 8 | | 2385.81 | 52.24 | -21.76 | 74.00 | 48.80 | 32.13 | 5.46 | 34.15 | 162 | 57 | Peak |
| 9 | | 2385.81 | 42.96 | -11.04 | 54.00 | 39.52 | 32.13 | 5.46 | 34.15 | 162 | 57 | Average |
| 10 | X | 2412.00 | 110.74 | | | 107.30 | 32.16 | 5.44 | 34.16 | 162 | 57 | Peak |
| 11 | @ | 2412.00 | 106.43 | | | 102.99 | 32.16 | 5.44 | 34.16 | 162 | 57 | Average |
| 12 | | 2484.00 | 40.41 | -13.59 | 54.00 | 36.94 | 32.27 | 5.38 | 34.19 | 162 | 57 | Average |
| 13 | | 2484.00 | 50.46 | -23.54 | 74.00 | 46.99 | 32.27 | 5.38 | 34.19 | 162 | 57 | Peak |
| 14 | | 8829.00 | 53.28 | -20.72 | 74.00 | 41.95 | 36.20 | 10.29 | 35.17 | 100 | 58 | Peak |
| 15 | | 8829.00 | 42.58 | -11.42 | 54.00 | 31.26 | 36.20 | 10.29 | 35.17 | 100 | 58 | Average |
| 16 | | 9648.00 | 40.22 | -33.78 | 74.00 | 74.87 | -10.09 | 10.74 | 35.30 | 100 | 0 | Peak |

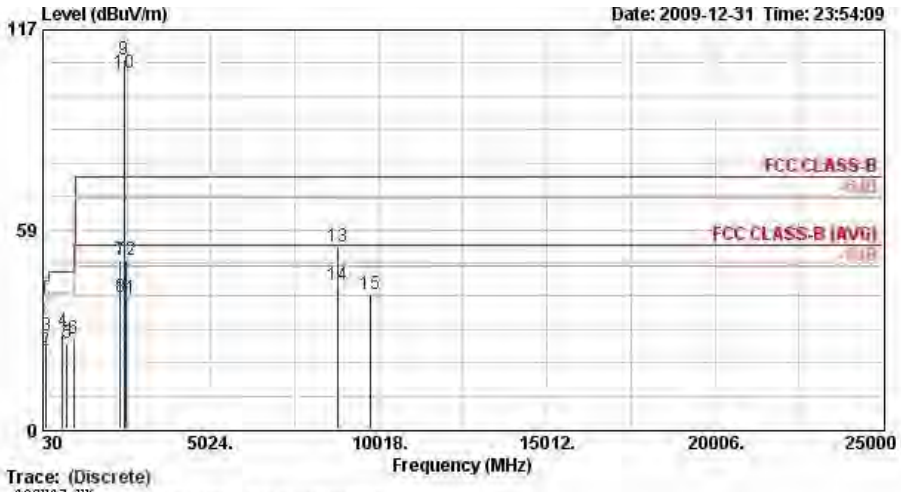
| Test Mode : | Mode 1 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.27 | 32.35 | -7.65 | 40.00 | 43.90 | 19.51 | 0.64 | 31.70 | --- | --- | Peak |
| 2 | 44.58 | 33.73 | -6.27 | 40.00 | 53.79 | 10.92 | 0.72 | 31.70 | 100 | 66 | Peak |
| 3 | 122.61 | 31.15 | -12.35 | 43.50 | 49.46 | 12.06 | 1.31 | 31.68 | --- | --- | Peak |
| 4 | 624.10 | 28.01 | -17.99 | 46.00 | 35.41 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | 694.10 | 25.76 | -20.24 | 46.00 | 32.34 | 20.80 | 3.53 | 30.91 | --- | --- | Peak |
| 6 | 750.10 | 27.11 | -18.89 | 46.00 | 32.69 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 7 | 1878.00 | 49.88 | -24.12 | 74.00 | 47.84 | 30.66 | 5.41 | 34.03 | 100 | 0 | Peak |
| 8 | 2387.00 | 45.77 | -8.23 | 54.00 | 42.33 | 32.13 | 5.46 | 34.15 | 100 | 6 | Average |
| 9 | 2387.33 | 57.38 | -16.62 | 74.00 | 53.94 | 32.13 | 5.46 | 34.15 | 100 | 6 | Peak |
| 10 X | 2412.00 | 112.29 | | | 108.84 | 32.16 | 5.44 | 34.16 | 100 | 6 | Peak |
| 11 @ | 2412.00 | 108.54 | | | 105.10 | 32.16 | 5.44 | 34.16 | 100 | 6 | Average |
| 12 | 2486.00 | 53.37 | -20.63 | 74.00 | 49.91 | 32.27 | 5.38 | 34.19 | 100 | 6 | Peak |
| 13 | 2486.00 | 42.51 | -11.49 | 54.00 | 39.04 | 32.27 | 5.38 | 34.19 | 100 | 6 | Average |
| 14 | 8847.00 | 53.86 | -20.14 | 74.00 | 42.53 | 36.21 | 10.29 | 35.17 | 110 | 30 | Peak |
| 15 | 8847.00 | 44.80 | -9.20 | 54.00 | 33.47 | 36.21 | 10.29 | 35.17 | 110 | 30 | Average |
| 16 | 9648.00 | 45.15 | -28.85 | 74.00 | 79.80 | -10.09 | 10.74 | 35.30 | 100 | 0 | Peak |

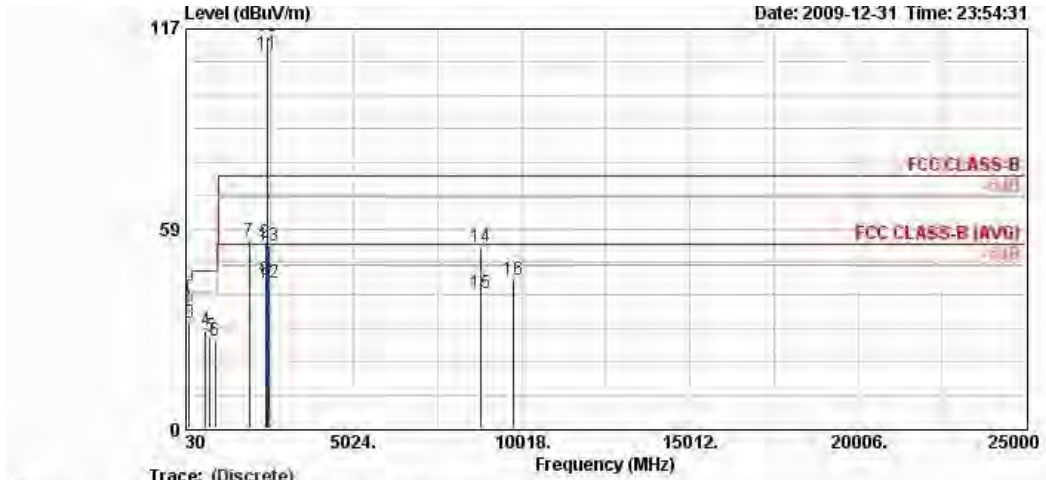
| Test Mode : | Mode 2 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored.<br>#15 is not in the restricted band. | | |




Trace: (Discrete)
Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

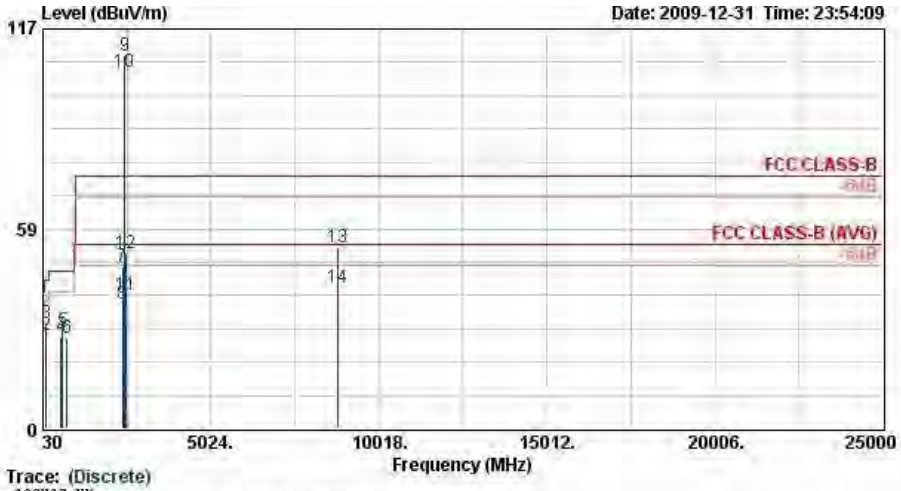
| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 29.40 | -10.60 | 40.00 | 49.46 | 10.92 | 0.72 | 31.70 | 100 | 26 | Peak |
| 2 | | 107.22 | 23.08 | -20.42 | 43.50 | 42.50 | 11.06 | 1.21 | 31.69 | --- | --- | Peak |
| 3 | | 135.57 | 27.54 | -15.96 | 43.50 | 46.09 | 11.73 | 1.39 | 31.66 | --- | --- | Peak |
| 4 | | 624.10 | 28.64 | -17.36 | 46.00 | 36.05 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 750.10 | 25.21 | -20.79 | 46.00 | 30.78 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 6 | | 940.50 | 26.61 | -19.39 | 46.00 | 29.23 | 23.80 | 4.24 | 30.66 | --- | --- | Peak |
| 7 | | 2342.00 | 49.73 | -24.27 | 74.00 | 46.32 | 32.05 | 5.50 | 34.14 | 104 | 54 | Peak |
| 8 | | 2342.00 | 38.63 | -15.37 | 54.00 | 35.22 | 32.05 | 5.50 | 34.14 | 104 | 54 | Average |
| 9 | X | 2437.00 | 108.33 | | | 104.89 | 32.19 | 5.43 | 34.17 | 104 | 54 | Peak |
| 10 | @ | 2437.00 | 104.45 | | | 100.99 | 32.22 | 5.41 | 34.17 | 104 | 54 | Average |
| 11 | | 2492.00 | 38.25 | -15.75 | 54.00 | 34.78 | 32.30 | 5.37 | 34.20 | 104 | 54 | Average |
| 12 | | 2492.00 | 49.66 | -24.34 | 74.00 | 46.19 | 32.30 | 5.37 | 34.20 | 104 | 54 | Peak |
| 13 | | 8805.00 | 53.63 | -20.37 | 74.00 | 42.33 | 36.18 | 10.28 | 35.16 | 120 | 100 | Peak |
| 14 | | 8805.00 | 42.08 | -11.92 | 54.00 | 30.78 | 36.18 | 10.28 | 35.16 | 120 | 100 | Average |
| 15 | | 9748.00 | 39.59 | -34.41 | 74.00 | 73.96 | -9.87 | 10.81 | 35.30 | 100 | 0 | Peak |

| Test Mode : | Mode 2 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | ! | 30.00 | 34.94 | -5.06 | 40.00 | 46.49 | 19.51 | 0.64 | 31.70 | --- | --- | Peak |
| 2 | ! | 43.77 | 35.60 | -4.40 | 40.00 | 55.03 | 11.55 | 0.72 | 31.70 | 100 | 261 | Peak |
| 3 | | 123.69 | 30.85 | -12.65 | 43.50 | 49.30 | 11.89 | 1.34 | 31.68 | --- | --- | Peak |
| 4 | | 624.10 | 28.73 | -17.27 | 46.00 | 36.14 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 750.10 | 27.17 | -18.83 | 46.00 | 32.75 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 6 | | 903.40 | 25.71 | -20.29 | 46.00 | 29.02 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | | 1916.00 | 54.85 | -19.15 | 74.00 | 52.45 | 30.90 | 5.52 | 34.02 | 100 | 0 | Peak |
| 8 | | 2388.00 | 43.28 | -10.72 | 54.00 | 39.84 | 32.13 | 5.46 | 34.15 | 100 | 3 | Average |
| 9 | | 2388.00 | 54.33 | -19.67 | 74.00 | 50.89 | 32.13 | 5.46 | 34.15 | 100 | 3 | Peak |
| 10 | X | 2437.00 | 114.62 | | | 111.18 | 32.19 | 5.43 | 34.17 | 100 | 3 | Peak |
| 11 | @ | 2437.00 | 109.76 | | | 106.30 | 32.22 | 5.41 | 34.17 | 100 | 3 | Average |
| 12 | | 2484.00 | 42.61 | -11.39 | 54.00 | 39.14 | 32.27 | 5.38 | 34.19 | 100 | 3 | Average |
| 13 | | 2484.00 | 53.56 | -20.44 | 74.00 | 50.09 | 32.27 | 5.38 | 34.19 | 100 | 3 | Peak |
| 14 | | 8802.00 | 53.09 | -20.91 | 74.00 | 41.79 | 36.18 | 10.28 | 35.16 | 100 | 87 | Peak |
| 15 | | 8802.00 | 39.67 | -14.33 | 54.00 | 28.37 | 36.18 | 10.28 | 35.16 | 100 | 87 | Average |
| 16 | | 9748.00 | 43.50 | -30.50 | 74.00 | 77.86 | -9.87 | 10.81 | 35.30 | 100 | 0 | Peak |

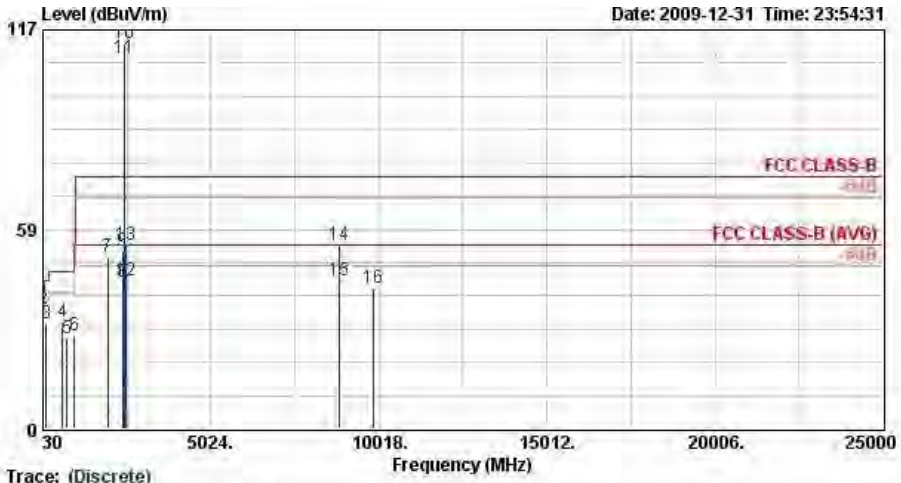
| Test Mode : | Mode 3 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 43.77 | 29.81 | -10.19 | 40.00 | 49.24 | 11.55 | 0.72 | 31.70 | 100 | 37 | Peak |
| 2 | 125.58 | 27.19 | -16.31 | 43.50 | 45.71 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | 139.89 | 30.66 | -12.84 | 43.50 | 49.22 | 11.70 | 1.40 | 31.66 | --- | --- | Peak |
| 4 | 567.40 | 26.95 | -19.05 | 46.00 | 35.39 | 19.45 | 3.15 | 31.03 | --- | --- | Peak |
| 5 | 624.10 | 28.83 | -17.17 | 46.00 | 36.23 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 750.10 | 26.35 | -19.65 | 46.00 | 31.93 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 7 | 2388.00 | 47.51 | -26.49 | 74.00 | 44.07 | 32.13 | 5.46 | 34.15 | 100 | 54 | Peak |
| 8 | 2388.00 | 36.53 | -17.47 | 54.00 | 33.09 | 32.13 | 5.46 | 34.15 | 100 | 54 | Average |
| 9 X | 2462.00 | 109.33 | | | 105.86 | 32.24 | 5.40 | 34.18 | 100 | 54 | Peak |
| 10 @ | 2462.00 | 104.32 | | | 100.86 | 32.24 | 5.40 | 34.18 | 100 | 54 | Average |
| 11 | 2489.74 | 39.28 | -14.72 | 54.00 | 35.80 | 32.30 | 5.37 | 34.19 | 100 | 54 | Average |
| 12 | 2489.74 | 51.27 | -22.73 | 74.00 | 47.79 | 32.30 | 5.37 | 34.19 | 100 | 54 | Peak |
| 13 | 8814.00 | 53.07 | -20.93 | 74.00 | 41.75 | 36.19 | 10.28 | 35.16 | 100 | 78 | Peak |
| 14 | 8814.00 | 41.42 | -12.58 | 54.00 | 30.11 | 36.19 | 10.28 | 35.16 | 100 | 78 | Average |

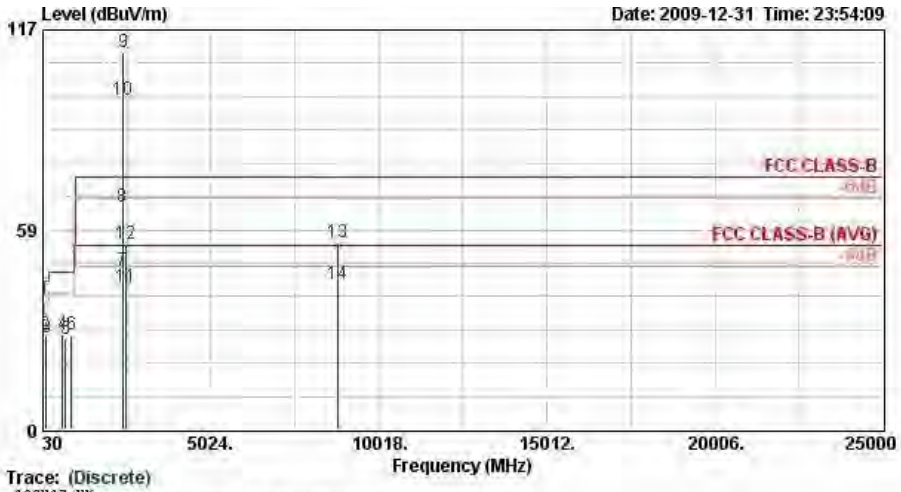
| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 3 | **Temperature :** | 19~20°C |
| **Test Channel :** | 11 | **Relative Humidity :** | 48~49% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | ! | 30.00 | 35.01 | -4.99 | 40.00 | 46.56 | 19.51 | 0.64 | 31.70 | --- | --- | Peak |
| 2 | ! | 44.58 | 35.38 | -4.62 | 40.00 | 55.44 | 10.92 | 0.72 | 31.70 | 100 | 69 | Peak |
| 3 | | 123.42 | 30.91 | -12.59 | 43.50 | 49.29 | 11.98 | 1.32 | 31.68 | --- | --- | Peak |
| 4 | | 624.10 | 31.30 | -14.70 | 46.00 | 38.70 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 750.10 | 26.70 | -19.30 | 46.00 | 32.28 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 6 | | 957.30 | 27.61 | -18.39 | 46.00 | 29.93 | 24.04 | 4.28 | 30.64 | --- | --- | Peak |
| 7 | | 1956.00 | 50.25 | -23.75 | 74.00 | 47.49 | 31.14 | 5.63 | 34.01 | 100 | 0 | Peak |
| 8 | | 2388.00 | 43.15 | -10.85 | 54.00 | 39.71 | 32.13 | 5.46 | 34.15 | 100 | 4 | Average |
| 9 | | 2388.00 | 52.38 | -21.62 | 74.00 | 48.94 | 32.13 | 5.46 | 34.15 | 100 | 4 | Peak |
| 10 | X | 2462.00 | 113.15 | | | 109.69 | 32.24 | 5.40 | 34.18 | 100 | 4 | Peak |
| 11 | @ | 2462.00 | 108.57 | | | 105.11 | 32.24 | 5.40 | 34.18 | 100 | 4 | Average |
| 12 | | 2486.13 | 43.67 | -10.33 | 54.00 | 40.20 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |
| 13 | | 2486.13 | 53.73 | -20.27 | 74.00 | 50.26 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 14 | | 8838.00 | 54.11 | -19.89 | 74.00 | 42.79 | 36.20 | 10.29 | 35.17 | 100 | 110 | Peak |
| 15 | | 8838.00 | 43.28 | -10.72 | 54.00 | 31.96 | 36.20 | 10.29 | 35.17 | 100 | 110 | Average |
| 16 | | 9848.00 | 41.50 | -32.50 | 74.00 | 75.54 | -9.63 | 10.89 | 35.30 | 100 | 0 | Peak |

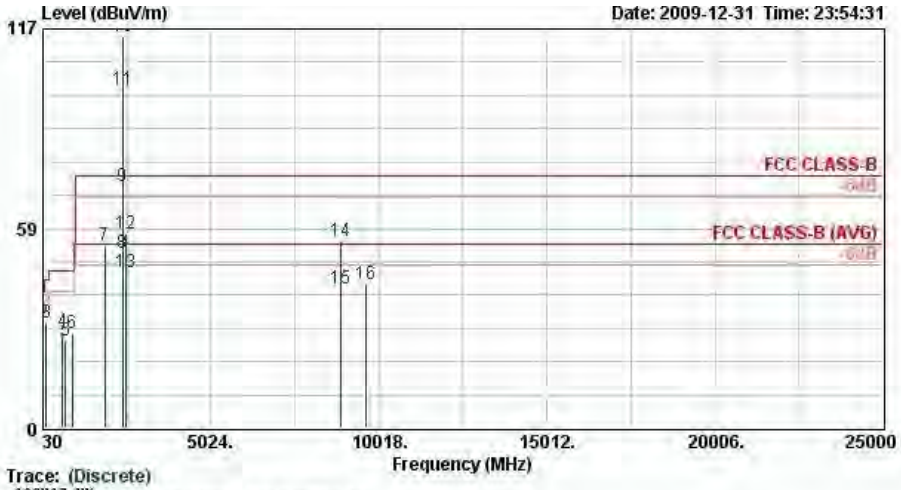
| Test Mode : | Mode 4 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

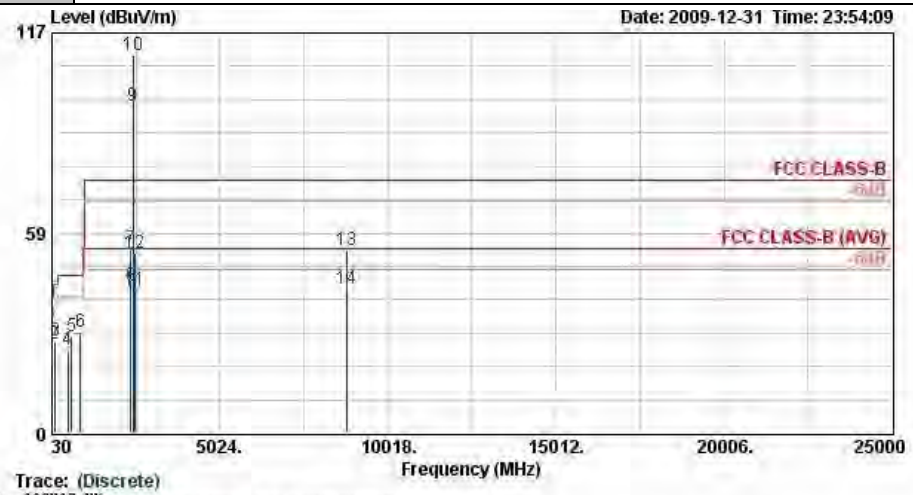
| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 43.77 | 24.18 | -15.82 | 40.00 | 43.61 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | | 101.82 | 27.80 | -15.70 | 43.50 | 47.81 | 10.52 | 1.17 | 31.70 | 100 | 93 | Peak |
| 3 | | 124.77 | 26.89 | -16.61 | 43.50 | 45.40 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | | 624.10 | 27.69 | -18.31 | 46.00 | 35.10 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 693.40 | 26.51 | -19.49 | 46.00 | 33.10 | 20.79 | 3.53 | 30.91 | --- | --- | Peak |
| 6 | | 875.40 | 27.69 | -18.31 | 46.00 | 31.38 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | | 2389.99 | 46.61 | -7.39 | 54.00 | 43.18 | 32.13 | 5.46 | 34.16 | 163 | 59 | Average |
| 8 | | 2389.99 | 65.09 | -8.91 | 74.00 | 61.66 | 32.13 | 5.46 | 34.16 | 163 | 59 | Peak |
| 9 | X | 2412.00 | 110.40 | | | 106.96 | 32.16 | 5.44 | 34.16 | 163 | 59 | Peak |
| 10 | @ | 2412.00 | 96.67 | | | 93.23 | 32.16 | 5.44 | 34.16 | 163 | 59 | Average |
| 11 | | 2484.00 | 41.77 | -12.23 | 54.00 | 38.30 | 32.27 | 5.38 | 34.19 | 163 | 59 | Average |
| 12 | | 2484.00 | 54.30 | -19.70 | 74.00 | 50.84 | 32.27 | 5.38 | 34.19 | 163 | 59 | Peak |
| 13 | | 8814.00 | 54.85 | -19.15 | 74.00 | 43.54 | 36.19 | 10.28 | 35.16 | 100 | 54 | Peak |
| 14 | | 8814.00 | 42.66 | -11.34 | 54.00 | 31.35 | 36.19 | 10.28 | 35.16 | 100 | 54 | Average |

| Test Mode : | Mode 4 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | ! | 30.00 | 34.11 | -5.89 | 40.00 | 45.66 | 19.51 | 0.64 | 31.70 | 100 | 59 | Peak |
| 2 | | 42.69 | 31.03 | -8.97 | 40.00 | 49.83 | 12.18 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 122.61 | 30.91 | -12.59 | 43.50 | 49.22 | 12.06 | 1.31 | 31.68 | --- | --- | Peak |
| 4 | | 624.10 | 28.41 | -17.59 | 46.00 | 35.81 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 691.30 | 25.81 | -20.19 | 46.00 | 32.42 | 20.77 | 3.53 | 30.91 | --- | --- | Peak |
| 6 | | 903.40 | 27.73 | -18.27 | 46.00 | 31.03 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | | 1878.00 | 53.40 | -20.60 | 74.00 | 51.37 | 30.66 | 5.41 | 34.03 | 100 | 0 | Peak |
| 8 | ! | 2389.99 | 51.45 | -2.55 | 54.00 | 48.02 | 32.13 | 5.46 | 34.16 | 100 | 6 | Average |
| 9 | ! | 2389.99 | 71.06 | -2.94 | 74.00 | 67.63 | 32.13 | 5.46 | 34.16 | 100 | 6 | Peak |
| 10 | X | 2412.00 | 114.79 | | | 111.35 | 32.16 | 5.44 | 34.16 | 100 | 6 | Peak |
| 11 | @ | 2412.00 | 99.36 | | | 95.92 | 32.16 | 5.44 | 34.16 | 100 | 6 | Average |
| 12 | | 2492.00 | 57.18 | -16.82 | 74.00 | 53.71 | 32.30 | 5.37 | 34.20 | 100 | 6 | Peak |
| 13 | | 2492.00 | 45.52 | -8.48 | 54.00 | 42.05 | 32.30 | 5.37 | 34.20 | 100 | 6 | Average |
| 14 | | 8898.00 | 54.60 | -19.40 | 74.00 | 43.23 | 36.24 | 10.31 | 35.18 | 100 | 227 | Peak |
| 15 | | 8898.00 | 40.82 | -13.18 | 54.00 | 29.45 | 36.24 | 10.31 | 35.18 | 100 | 227 | Average |
| 16 | | 9648.00 | 42.23 | -31.77 | 74.00 | 76.86 | -10.07 | 10.74 | 35.30 | 100 | 0 | Peak |

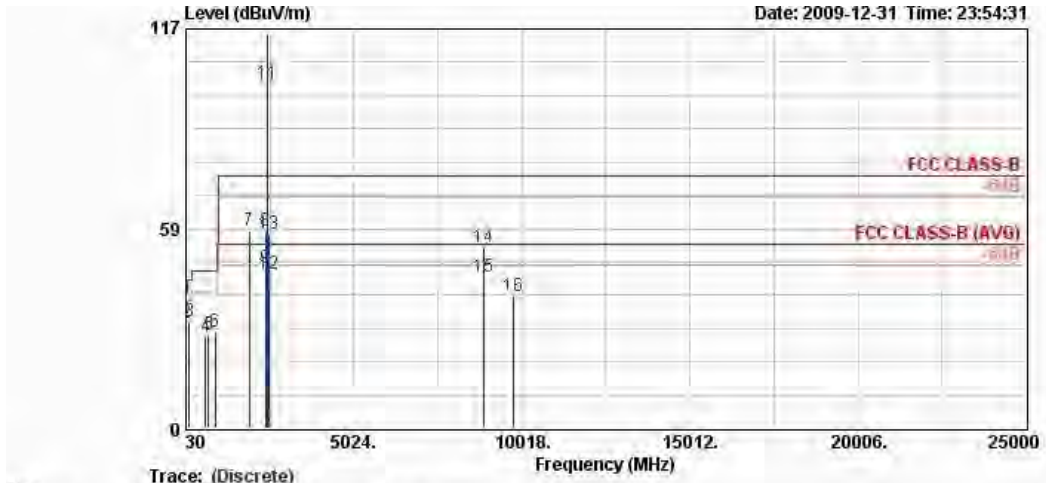
| Test Mode : | Mode 5 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

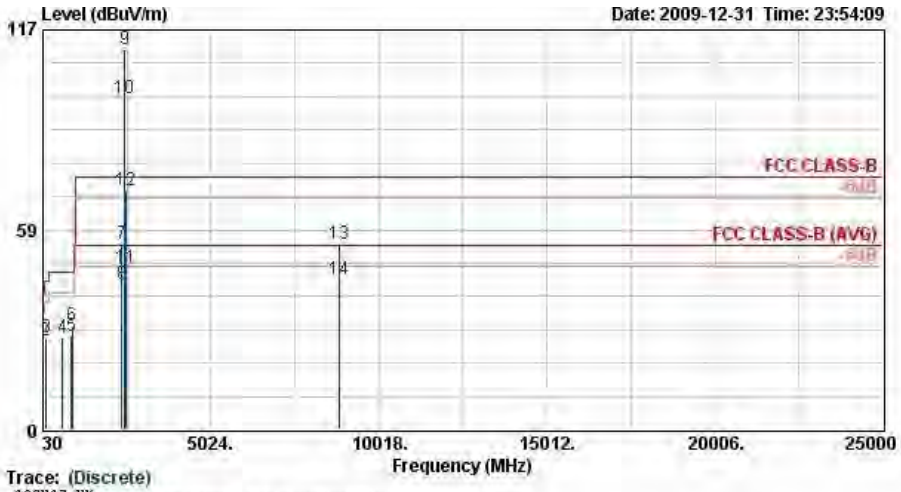
| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 26.87 | -13.13 | 40.00 | 38.42 | 19.51 | 0.64 | 31.70 | 100 | 88 | Peak |
| 2 | 101.01 | 26.10 | -17.40 | 43.50 | 46.20 | 10.43 | 1.17 | 31.70 | --- | --- | Peak |
| 3 | 125.85 | 26.84 | -16.66 | 43.50 | 45.36 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | 500.20 | 24.45 | -21.55 | 46.00 | 34.43 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 28.37 | -17.63 | 46.00 | 35.78 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 875.40 | 29.41 | -16.59 | 46.00 | 33.10 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2372.00 | 53.96 | -20.04 | 74.00 | 50.53 | 32.11 | 5.47 | 34.15 | 158 | 59 | Peak |
| 8 | 2372.00 | 42.93 | -11.07 | 54.00 | 39.50 | 32.11 | 5.47 | 34.15 | 158 | 59 | Average |
| 9 @ | 2437.00 | 95.89 | | | 92.43 | 32.22 | 5.41 | 34.17 | 158 | 59 | Average |
| 10 X | 2438.00 | 110.37 | | | 106.91 | 32.22 | 5.41 | 34.17 | 158 | 59 | Peak |
| 11 | 2486.00 | 41.89 | -12.11 | 54.00 | 38.42 | 32.27 | 5.38 | 34.19 | 158 | 59 | Average |
| 12 | 2486.00 | 52.63 | -21.37 | 74.00 | 49.17 | 32.27 | 5.38 | 34.19 | 158 | 59 | Peak |
| 13 | 8808.00 | 53.35 | -20.65 | 74.00 | 42.06 | 36.18 | 10.28 | 35.16 | 100 | 64 | Peak |
| 14 | 8808.00 | 42.18 | -11.82 | 54.00 | 30.88 | 36.18 | 10.28 | 35.16 | 100 | 64 | Average |

| Test Mode : | Mode 5 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 ! | 30.00 | 34.05 | -5.95 | 40.00 | 45.60 | 19.51 | 0.64 | 31.70 | 100 | 49 | Peak |
| 2 | 42.69 | 30.70 | -9.30 | 40.00 | 49.50 | 12.18 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | 124.77 | 31.18 | -12.32 | 43.50 | 49.70 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | 624.10 | 26.80 | -19.20 | 46.00 | 34.20 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | 696.20 | 27.46 | -18.54 | 46.00 | 34.01 | 20.81 | 3.54 | 30.90 | --- | --- | Peak |
| 6 | 903.40 | 28.18 | -17.82 | 46.00 | 31.49 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | 1916.00 | 57.71 | -16.29 | 74.00 | 55.31 | 30.90 | 5.52 | 34.02 | 100 | 0 | Peak |
| 8 | 2388.00 | 57.87 | -16.13 | 74.00 | 54.43 | 32.13 | 5.46 | 34.15 | 100 | 3 | Peak |
| 9 | 2388.00 | 46.77 | -7.23 | 54.00 | 43.33 | 32.13 | 5.46 | 34.15 | 100 | 3 | Average |
| 10 X | 2437.00 | 115.51 | | | 112.04 | 32.22 | 5.41 | 34.17 | 100 | 3 | Peak |
| 11 @ | 2437.00 | 101.04 | | | 97.58 | 32.22 | 5.41 | 34.17 | 100 | 3 | Average |
| 12 | 2484.00 | 45.40 | -8.60 | 54.00 | 41.93 | 32.27 | 5.38 | 34.19 | 100 | 3 | Average |
| 13 | 2484.00 | 57.05 | -16.95 | 74.00 | 53.58 | 32.27 | 5.38 | 34.19 | 100 | 3 | Peak |
| 14 | 8874.00 | 53.11 | -20.89 | 74.00 | 41.76 | 36.22 | 10.30 | 35.18 | 106 | 100 | Peak |
| 15 | 8874.00 | 44.51 | -9.49 | 54.00 | 33.17 | 36.22 | 10.30 | 35.18 | 106 | 100 | Average |
| 16 | 9748.00 | 38.90 | | | 73.26 | -9.87 | 10.81 | 35.30 | 100 | 0 | Peak |

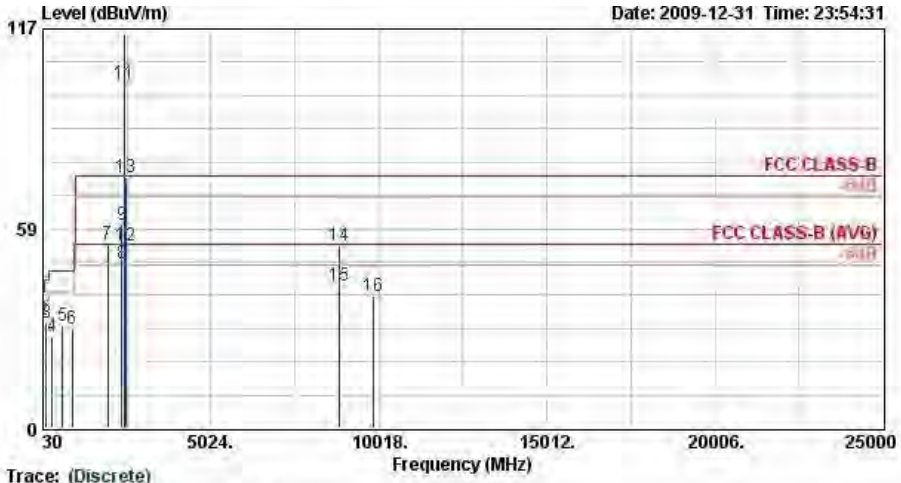
| Test Mode : | Mode 6 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 43.77 | 23.78 | -16.22 | 40.00 | 43.21 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | | 101.82 | 26.15 | -17.35 | 43.50 | 46.16 | 10.52 | 1.17 | 31.70 | --- | --- | Peak |
| 3 | | 125.85 | 26.92 | -16.58 | 43.50 | 45.44 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | | 624.10 | 27.13 | -18.87 | 46.00 | 34.54 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 875.40 | 27.52 | -18.48 | 46.00 | 31.20 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 6 | | 903.40 | 30.62 | -15.38 | 46.00 | 33.92 | 23.22 | 4.17 | 30.70 | 100 | 67 | Peak |
| 7 | | 2366.00 | 54.21 | -19.79 | 74.00 | 50.80 | 32.08 | 5.49 | 34.15 | 100 | 51 | Peak |
| 8 | | 2366.00 | 42.56 | -11.44 | 54.00 | 39.14 | 32.08 | 5.49 | 34.15 | 100 | 51 | Average |
| 9 | X | 2462.00 | 111.14 | | | 107.67 | 32.24 | 5.40 | 34.18 | 100 | 51 | Peak |
| 10 | @ | 2462.00 | 96.94 | | | 93.48 | 32.24 | 5.40 | 34.18 | 100 | 51 | Average |
| 11 | | 2484.42 | 47.61 | -6.39 | 54.00 | 44.14 | 32.27 | 5.38 | 34.19 | 100 | 51 | Average |
| 12 | ! | 2484.42 | 69.93 | -4.07 | 74.00 | 66.46 | 32.27 | 5.38 | 34.19 | 100 | 51 | Peak |
| 13 | | 8817.00 | 54.41 | -19.59 | 74.00 | 43.11 | 36.19 | 10.28 | 35.17 | 122 | 36 | Peak |
| 14 | | 8817.00 | 43.92 | -10.08 | 54.00 | 32.61 | 36.19 | 10.28 | 35.17 | 122 | 36 | Average |

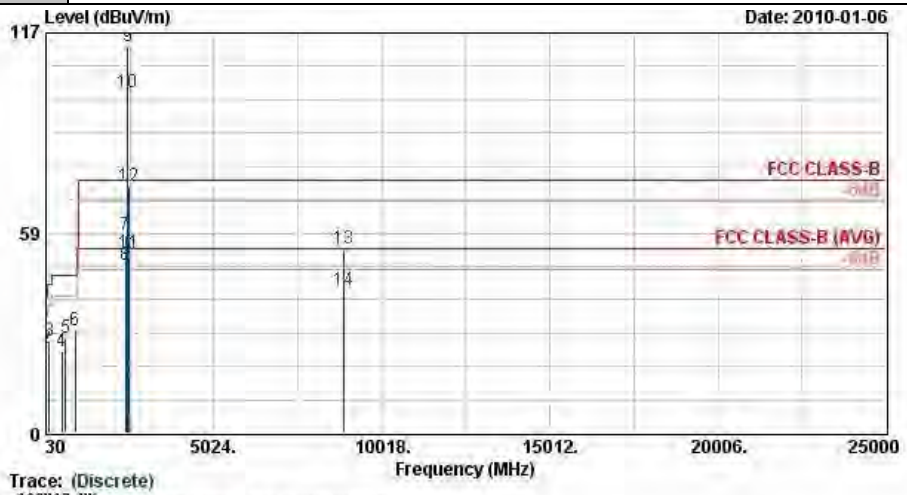
| Test Mode : | Mode 6 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #10 and #11 are Fundamental Signals which can be ignored.<br>#16 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 ! | 30.00 | 34.13 | -5.87 | 40.00 | 45.68 | 19.51 | 0.64 | 31.70 | 100 | 164 | Peak |
| 2 | 42.69 | 31.94 | -8.06 | 40.00 | 50.74 | 12.18 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | 123.42 | 31.05 | -12.45 | 43.50 | 49.42 | 11.98 | 1.32 | 31.68 | --- | --- | Peak |
| 4 | 307.70 | 26.94 | -19.06 | 46.00 | 42.50 | 13.67 | 2.16 | 31.38 | --- | --- | Peak |
| 5 | 624.10 | 29.85 | -16.15 | 46.00 | 37.25 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 903.40 | 29.07 | -16.93 | 46.00 | 32.38 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | 1950.00 | 54.04 | -19.96 | 74.00 | 51.29 | 31.14 | 5.63 | 34.01 | 100 | 0 | Peak |
| 8 ! | 2382.00 | 48.21 | -5.79 | 54.00 | 44.78 | 32.11 | 5.47 | 34.15 | 100 | 4 | Average |
| 9 | 2382.00 | 59.76 | -14.24 | 74.00 | 56.33 | 32.11 | 5.47 | 34.15 | 100 | 4 | Peak |
| 10 X | 2462.00 | 115.66 | | | 112.19 | 32.24 | 5.40 | 34.18 | 100 | 4 | Peak |
| 11 @ | 2462.00 | 100.86 | | | 97.40 | 32.24 | 5.40 | 34.18 | 100 | 4 | Average |
| 12 ! | 2483.66 | 53.35 | -0.65 | 54.00 | 49.88 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |
| 13 ! | 2483.66 | 73.67 | -0.33 | 74.00 | 70.20 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 14 | 8847.00 | 53.52 | -20.48 | 74.00 | 42.19 | 36.21 | 10.29 | 35.17 | 100 | 105 | Peak |
| 15 | 8847.00 | 41.81 | -12.19 | 54.00 | 30.48 | 36.21 | 10.29 | 35.17 | 100 | 105 | Average |
| 16 | 9848.00 | 38.88 | -35.12 | 74.00 | 72.92 | -9.63 | 10.89 | 35.30 | 100 | 0 | Peak |

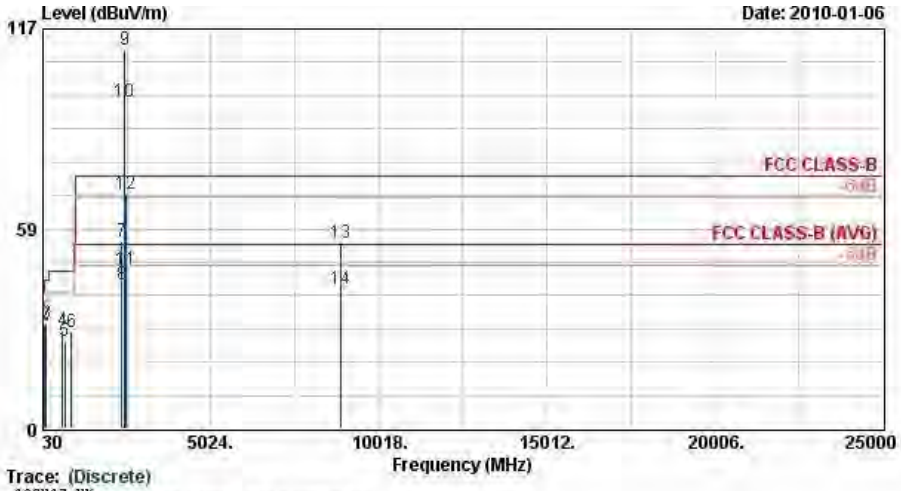
| Test Mode : | Mode 7 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.00 | 25.95 | -14.05 | 40.00 | 37.50 | 19.51 | 0.64 | 31.70 | 100 | 66 | Peak |
| 2 | | 44.58 | 24.97 | -15.03 | 40.00 | 45.03 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 126.66 | 27.09 | -16.41 | 43.50 | 45.61 | 11.80 | 1.36 | 31.67 | --- | --- | Peak |
| 4 | | 500.20 | 24.10 | -21.90 | 46.00 | 34.08 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 27.78 | -18.22 | 46.00 | 35.19 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 903.40 | 29.85 | -16.15 | 46.00 | 33.16 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | | 2390.00 | 58.02 | -15.98 | 74.00 | 54.59 | 32.13 | 5.46 | 34.16 | 100 | 318 | Peak |
| 8 | ! | 2390.00 | 49.01 | -4.99 | 54.00 | 45.58 | 32.13 | 5.46 | 34.16 | 100 | 318 | Average |
| 9 | X | 2462.00 | 113.15 | | | 109.68 | 32.24 | 5.40 | 34.18 | 100 | 318 | Peak |
| 10 | @ | 2462.00 | 99.71 | | | 96.25 | 32.24 | 5.40 | 34.18 | 100 | 318 | Average |
| 11 | ! | 2483.66 | 52.71 | -1.29 | 54.00 | 49.24 | 32.27 | 5.38 | 34.19 | 100 | 318 | Average |
| 12 | ! | 2483.66 | 72.26 | -1.74 | 74.00 | 68.79 | 32.27 | 5.38 | 34.19 | 100 | 318 | Peak |
| 13 | | 8898.00 | 54.13 | -19.87 | 74.00 | 42.76 | 36.24 | 10.31 | 35.18 | 100 | 227 | Peak |
| 14 | | 8898.00 | 41.59 | -12.41 | 54.00 | 30.22 | 36.24 | 10.31 | 35.18 | 100 | 227 | Average |

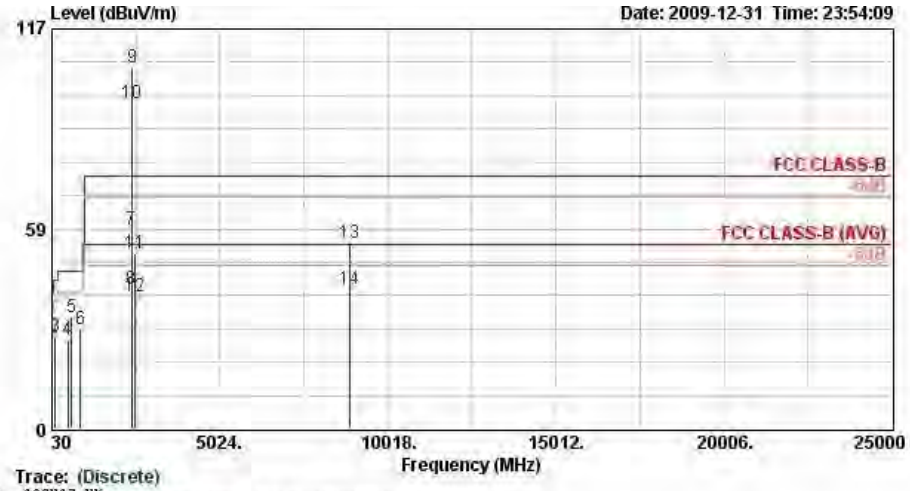
| Test Mode : | Mode 7 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Trace: (Discrete)
Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 42.69 | 32.10 | -7.90 | 40.00 | 50.90 | 12.18 | 0.72 | 31.70 | 100 | 56 | Peak |
| 2 | 93.18 | 30.35 | -13.15 | 43.50 | 51.61 | 9.32 | 1.13 | 31.70 | --- | --- | Peak |
| 3 | 123.42 | 30.88 | -12.62 | 43.50 | 49.25 | 11.98 | 1.32 | 31.68 | --- | --- | Peak |
| 4 | 624.10 | 28.83 | -17.17 | 46.00 | 36.24 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | 685.70 | 25.84 | -20.16 | 46.00 | 32.52 | 20.73 | 3.51 | 30.91 | --- | --- | Peak |
| 6 | 875.40 | 28.25 | -17.75 | 46.00 | 31.94 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2382.00 | 54.71 | -19.29 | 74.00 | 51.28 | 32.11 | 5.47 | 34.15 | 100 | 242 | Peak |
| 8 | 2382.00 | 42.14 | -11.86 | 54.00 | 38.71 | 32.11 | 5.47 | 34.15 | 100 | 242 | Average |
| 9 X | 2462.00 | 110.85 | | | 107.39 | 32.24 | 5.40 | 34.18 | 100 | 242 | Peak |
| 10 @ | 2462.00 | 95.70 | | | 92.24 | 32.24 | 5.40 | 34.18 | 100 | 242 | Average |
| 11 | 2483.50 | 46.74 | -7.26 | 54.00 | 43.27 | 32.27 | 5.38 | 34.19 | 100 | 242 | Average |
| 12 ! | 2483.50 | 68.93 | -5.07 | 74.00 | 65.46 | 32.27 | 5.38 | 34.19 | 100 | 242 | Peak |
| 13 | 8886.00 | 54.34 | -19.66 | 74.00 | 42.99 | 36.23 | 10.30 | 35.18 | 100 | 67 | Peak |
| 14 | 8886.00 | 41.00 | -13.00 | 54.00 | 29.64 | 36.23 | 10.30 | 35.18 | 100 | 67 | Average |

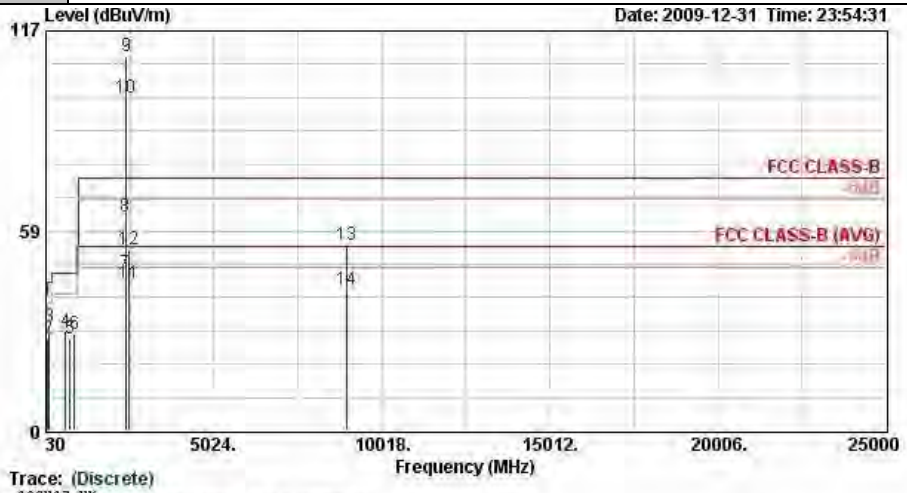
| Test Mode : | Mode 8 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 44.58 | 24.98 | -15.02 | 40.00 | 45.04 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | 106.41 | 26.54 | -16.96 | 43.50 | 46.07 | 10.97 | 1.20 | 31.69 | --- | --- | Peak |
| 3 | 125.85 | 26.89 | -16.61 | 43.50 | 45.41 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | 500.20 | 26.01 | -19.99 | 46.00 | 35.99 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 32.68 | -13.32 | 46.00 | 40.08 | 20.25 | 3.33 | 30.98 | 100 | 17 | Peak |
| 6 | 875.40 | 28.97 | -17.03 | 46.00 | 32.66 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2389.61 | 58.40 | -15.60 | 74.00 | 54.96 | 32.13 | 5.46 | 34.15 | 163 | 57 | Peak |
| 8 | 2389.61 | 40.74 | -13.26 | 54.00 | 37.30 | 32.13 | 5.46 | 34.15 | 163 | 57 | Average |
| 9 X | 2412.00 | 105.89 | | | 102.45 | 32.16 | 5.44 | 34.16 | 163 | 57 | Peak |
| 10 X | 2412.00 | 95.20 | | | 91.76 | 32.16 | 5.44 | 34.16 | 163 | 57 | Average |
| 11 | 2484.00 | 51.29 | -22.71 | 74.00 | 47.82 | 32.27 | 5.38 | 34.19 | 163 | 27 | Peak |
| 12 | 2484.00 | 38.76 | -15.24 | 54.00 | 35.29 | 32.27 | 5.38 | 34.19 | 163 | 57 | Average |
| 13 | 8865.00 | 54.33 | -19.67 | 74.00 | 42.98 | 36.22 | 10.30 | 35.17 | 100 | 63 | Peak |
| 14 | 8865.00 | 40.75 | -13.25 | 54.00 | 29.40 | 36.22 | 10.30 | 35.17 | 100 | 63 | Average |

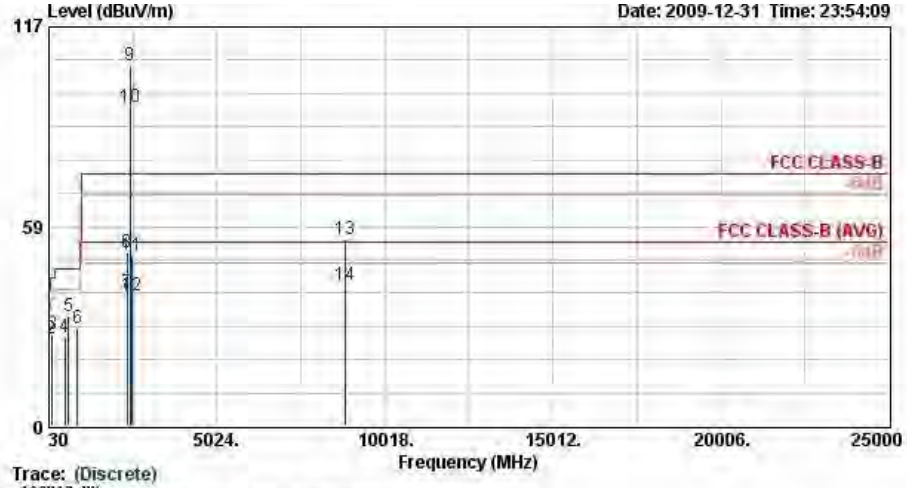
| Test Mode : | Mode 8 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 43.50 | 29.08 | -10.92 | 40.00 | 48.51 | 11.55 | 0.72 | 31.70 | 100 | 37 | Peak |
| 2 | 93.18 | 26.94 | -16.56 | 43.50 | 48.20 | 9.32 | 1.13 | 31.70 | --- | --- | Peak |
| 3 | 124.77 | 30.25 | -13.25 | 43.50 | 48.77 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | 624.10 | 29.31 | -16.69 | 46.00 | 36.71 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | 750.10 | 26.82 | -19.18 | 46.00 | 32.40 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 6 | 875.40 | 28.31 | -17.69 | 46.00 | 32.00 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2389.99 | 45.89 | -8.11 | 54.00 | 42.46 | 32.13 | 5.46 | 34.16 | 100 | 11 | Average |
| 8 | 2389.99 | 62.81 | -11.19 | 74.00 | 59.38 | 32.13 | 5.46 | 34.16 | 100 | 11 | Peak |
| 9 X | 2412.00 | 109.61 | | | 106.16 | 32.16 | 5.44 | 34.16 | 100 | 11 | Peak |
| 10 @ | 2412.00 | 97.42 | | | 93.98 | 32.16 | 5.44 | 34.16 | 100 | 11 | Average |
| 11 | 2484.00 | 42.98 | -11.02 | 54.00 | 39.51 | 32.27 | 5.38 | 34.19 | 100 | 11 | Average |
| 12 | 2484.00 | 53.11 | -20.89 | 74.00 | 49.64 | 32.27 | 5.38 | 34.19 | 100 | 11 | Peak |
| 13 | 8949.00 | 54.32 | -19.68 | 74.00 | 42.92 | 36.27 | 10.32 | 35.19 | 100 | 77 | Peak |
| 14 | 8949.00 | 41.51 | -12.49 | 54.00 | 30.11 | 36.27 | 10.32 | 35.19 | 100 | 77 | Average |

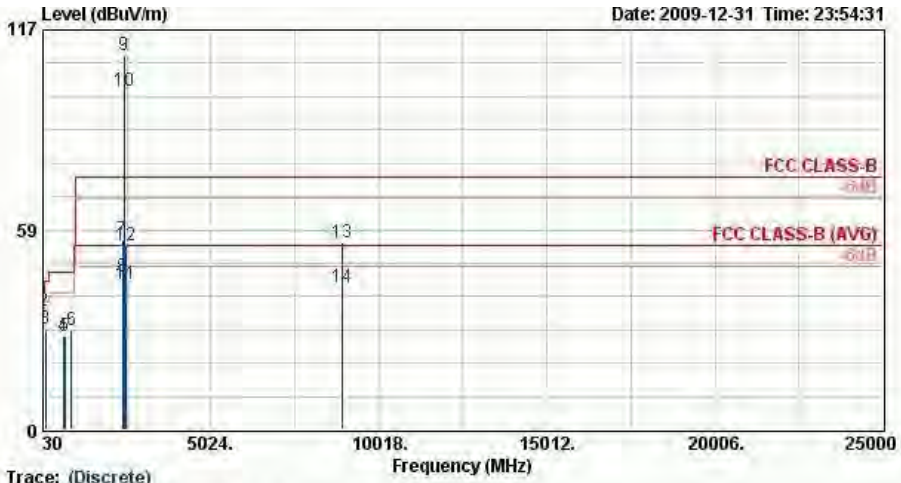
| Test Mode : | Mode 9 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

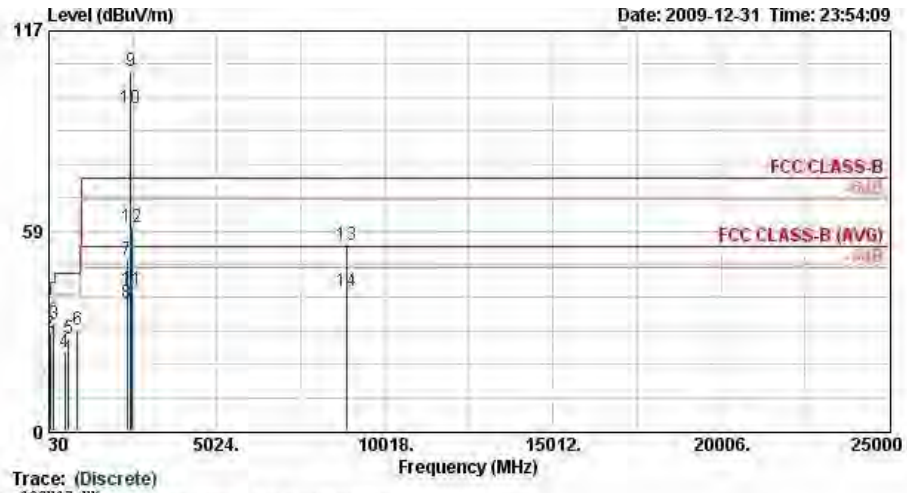
| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 44.58 | 25.22 | -14.78 | 40.00 | 45.28 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | 106.41 | 25.69 | -17.81 | 43.50 | 45.22 | 10.97 | 1.20 | 31.69 | --- | --- | Peak |
| 3 | 124.77 | 27.11 | -16.39 | 43.50 | 45.62 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | 500.20 | 25.88 | -20.12 | 46.00 | 35.86 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 32.18 | -13.82 | 46.00 | 39.59 | 20.25 | 3.33 | 30.98 | 100 | 67 | Peak |
| 6 | 875.40 | 28.57 | -17.43 | 46.00 | 32.26 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2358.00 | 38.96 | -15.04 | 54.00 | 35.53 | 32.08 | 5.49 | 34.14 | 161 | 60 | Average |
| 8 | 2358.00 | 50.93 | -23.07 | 74.00 | 47.50 | 32.08 | 5.49 | 34.14 | 161 | 60 | Peak |
| 9 X | 2437.00 | 105.55 | | | 102.09 | 32.22 | 5.41 | 34.17 | 161 | 60 | Peak |
| 10 X | 2437.00 | 93.61 | | | 90.15 | 32.22 | 5.41 | 34.17 | 161 | 60 | Average |
| 11 | 2484.00 | 49.83 | -24.17 | 74.00 | 46.37 | 32.27 | 5.38 | 34.19 | 161 | 60 | Peak |
| 12 | 2484.00 | 38.25 | -15.75 | 54.00 | 34.78 | 32.27 | 5.38 | 34.19 | 161 | 60 | Average |
| 13 | 8853.00 | 54.68 | -19.32 | 74.00 | 43.35 | 36.21 | 10.29 | 35.17 | 100 | 65 | Peak |
| 14 | 8853.00 | 41.43 | -12.57 | 54.00 | 30.10 | 36.21 | 10.29 | 35.17 | 100 | 65 | Average |

| Test Mode : | Mode 9 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 ! | 30.54 | 34.41 | -5.59 | 40.00 | 46.51 | 18.95 | 0.65 | 31.70 | --- | --- | Peak |
| 2 ! | 44.85 | 34.84 | -5.16 | 40.00 | 54.90 | 10.92 | 0.72 | 31.70 | 100 | 56 | Peak |
| 3 | 108.57 | 29.63 | -13.87 | 43.50 | 48.96 | 11.15 | 1.21 | 31.69 | --- | --- | Peak |
| 4 | 626.90 | 27.22 | -18.78 | 46.00 | 34.59 | 20.27 | 3.33 | 30.97 | --- | --- | Peak |
| 5 | 674.50 | 27.25 | -18.75 | 46.00 | 34.06 | 20.64 | 3.48 | 30.93 | --- | --- | Peak |
| 6 | 875.40 | 29.24 | -16.76 | 46.00 | 32.92 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2388.00 | 55.56 | -18.44 | 74.00 | 52.12 | 32.13 | 5.46 | 34.15 | 100 | 4 | Peak |
| 8 | 2388.00 | 44.74 | -9.26 | 54.00 | 41.30 | 32.13 | 5.46 | 34.15 | 100 | 4 | Average |
| 9 X | 2437.00 | 109.70 | | | 106.24 | 32.22 | 5.41 | 34.17 | 100 | 4 | Peak |
| 10 @ | 2437.00 | 99.36 | | | 95.90 | 32.22 | 5.41 | 34.17 | 100 | 4 | Average |
| 11 | 2492.00 | 42.72 | -11.28 | 54.00 | 39.25 | 32.30 | 5.37 | 34.20 | 100 | 4 | Average |
| 12 | 2492.00 | 53.93 | -20.07 | 74.00 | 50.46 | 32.30 | 5.37 | 34.20 | 100 | 4 | Peak |
| 13 | 8946.00 | 54.71 | -19.29 | 74.00 | 43.33 | 36.26 | 10.32 | 35.19 | 100 | 221 | Peak |
| 14 | 8946.00 | 41.80 | -12.20 | 54.00 | 30.41 | 36.26 | 10.32 | 35.19 | 100 | 221 | Average |

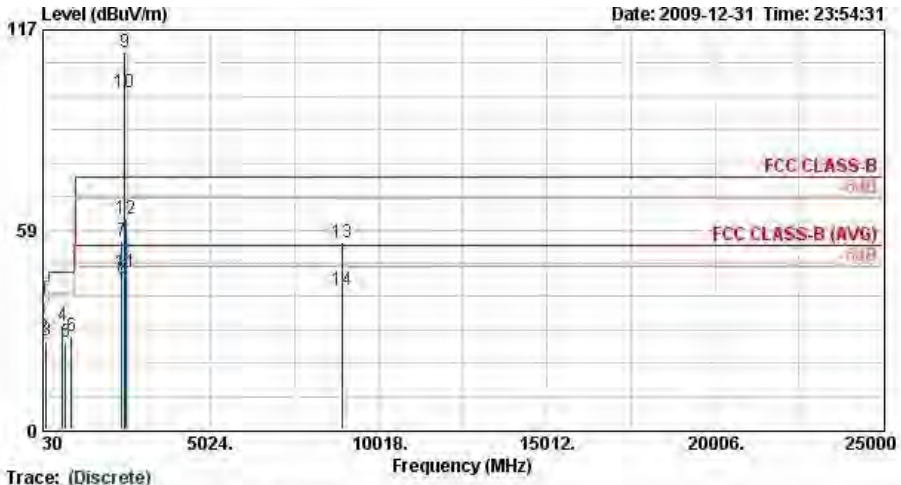
| Test Mode : | Mode 10 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 31.89 | 31.03 | -8.97 | 40.00 | 43.68 | 18.40 | 0.66 | 31.70 | 100 | 97 | Peak |
| 2 | 72.93 | 28.63 | -11.37 | 40.00 | 52.50 | 6.86 | 0.97 | 31.70 | --- | --- | Peak |
| 3 | 171.75 | 31.12 | -12.38 | 43.50 | 51.66 | 9.53 | 1.56 | 31.63 | --- | --- | Peak |
| 4 | 500.20 | 23.26 | -22.74 | 46.00 | 33.24 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 26.77 | -19.23 | 46.00 | 34.18 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 875.40 | 29.36 | -16.64 | 46.00 | 33.05 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2350.00 | 49.84 | -24.16 | 74.00 | 46.43 | 32.05 | 5.50 | 34.14 | 127 | 53 | Peak |
| 8 | 2350.00 | 37.33 | -16.67 | 54.00 | 33.92 | 32.05 | 5.50 | 34.14 | 127 | 53 | Average |
| 9 X | 2462.00 | 105.10 | | | 101.64 | 32.24 | 5.40 | 34.18 | 127 | 53 | Peak |
| 10 @ | 2462.00 | 94.26 | | | 90.80 | 32.24 | 5.40 | 34.18 | 127 | 53 | Average |
| 11 | 2483.66 | 41.43 | -12.57 | 54.00 | 37.96 | 32.27 | 5.38 | 34.19 | 127 | 53 | Average |
| 12 | 2483.66 | 59.40 | -14.60 | 74.00 | 55.93 | 32.27 | 5.38 | 34.19 | 127 | 53 | Peak |
| 13 | 8874.00 | 54.51 | -19.49 | 74.00 | 43.17 | 36.22 | 10.30 | 35.18 | 100 | 216 | Peak |
| 14 | 8874.00 | 40.88 | -13.12 | 54.00 | 29.54 | 36.22 | 10.30 | 35.18 | 100 | 216 | Average |

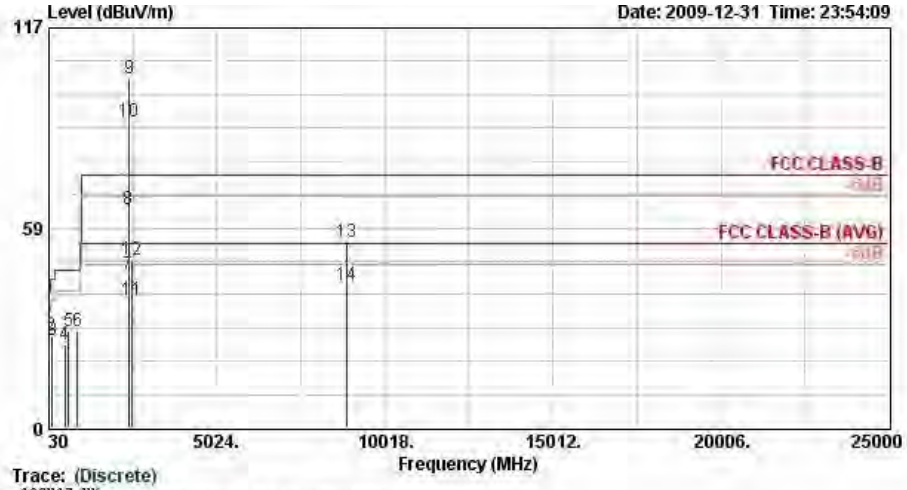
| Test Mode : | Mode 10 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.00 | 30.63 | -9.37 | 40.00 | 42.18 | 19.51 | 0.64 | 31.70 | 100 | 64 | Peak |
| 2 | | 42.69 | 26.99 | -13.01 | 40.00 | 45.79 | 12.18 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 124.77 | 25.92 | -17.58 | 43.50 | 44.44 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | | 624.10 | 30.52 | -15.48 | 46.00 | 37.92 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 693.40 | 25.75 | -20.25 | 46.00 | 32.33 | 20.79 | 3.53 | 30.91 | --- | --- | Peak |
| 6 | | 875.40 | 27.52 | -18.48 | 46.00 | 31.21 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | | 2382.00 | 55.38 | -18.62 | 74.00 | 51.96 | 32.11 | 5.47 | 34.15 | 100 | 4 | Peak |
| 8 | | 2382.00 | 44.40 | -9.60 | 54.00 | 40.97 | 32.11 | 5.47 | 34.15 | 100 | 4 | Average |
| 9 | X | 2462.00 | 110.43 | | | 106.97 | 32.24 | 5.40 | 34.18 | 100 | 4 | Peak |
| 10 | @ | 2462.00 | 98.56 | | | 95.10 | 32.24 | 5.40 | 34.18 | 100 | 4 | Average |
| 11 | | 2485.18 | 45.93 | -8.07 | 54.00 | 42.46 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |
| 12 | | 2485.18 | 61.82 | -12.18 | 74.00 | 58.35 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 13 | | 8934.00 | 54.68 | -19.32 | 74.00 | 43.28 | 36.26 | 10.32 | 35.19 | 100 | 57 | Peak |
| 14 | | 8934.00 | 41.09 | -12.91 | 54.00 | 29.70 | 36.26 | 10.32 | 35.19 | 100 | 57 | Average |

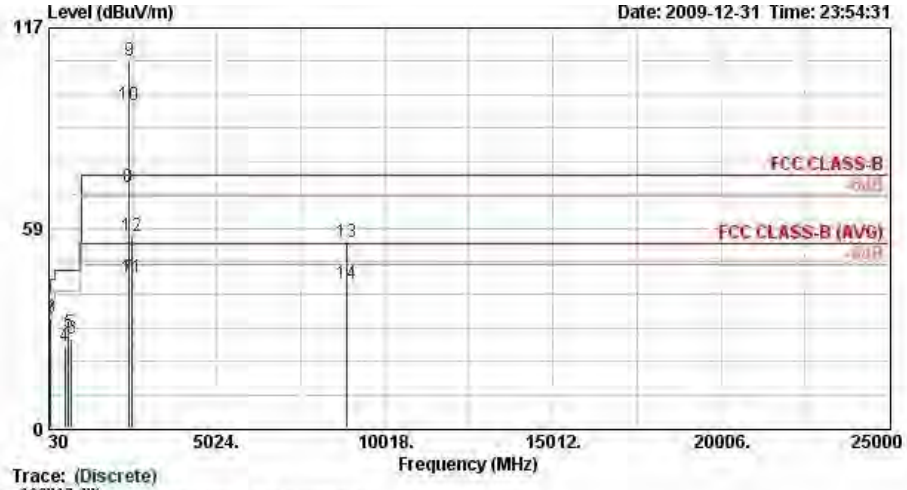
| Test Mode : | Mode 11 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 03 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 0D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 25.71 | -14.29 | 40.00 | 45.77 | 10.92 | 0.72 | 31.70 | 100 | 28 | Peak |
| 2 | | 101.82 | 26.88 | -16.62 | 43.50 | 46.88 | 10.52 | 1.17 | 31.70 | --- | --- | Peak |
| 3 | | 135.30 | 25.48 | -18.02 | 43.50 | 44.02 | 11.73 | 1.39 | 31.66 | --- | --- | Peak |
| 4 | | 500.20 | 24.16 | -21.84 | 46.00 | 34.14 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 28.33 | -17.67 | 46.00 | 35.73 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 875.40 | 28.28 | -17.72 | 46.00 | 31.97 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | | 2387.33 | 44.80 | -9.20 | 54.00 | 41.36 | 32.13 | 5.46 | 34.15 | 106 | 58 | Average |
| 8 | | 2387.33 | 63.77 | -10.23 | 74.00 | 60.33 | 32.13 | 5.46 | 34.15 | 106 | 58 | Peak |
| 9 | X | 2422.00 | 102.32 | | | 98.88 | 32.16 | 5.44 | 34.16 | 106 | 58 | Peak |
| 10 | @ | 2422.00 | 89.77 | | | 86.32 | 32.19 | 5.43 | 34.17 | 106 | 58 | Average |
| 11 | | 2492.00 | 37.42 | -16.58 | 54.00 | 33.95 | 32.30 | 5.37 | 34.20 | 106 | 58 | Average |
| 12 | | 2492.00 | 49.16 | -24.84 | 74.00 | 45.69 | 32.30 | 5.37 | 34.20 | 106 | 58 | Peak |
| 13 | | 8874.00 | 54.30 | -19.70 | 74.00 | 42.96 | 36.22 | 10.30 | 35.18 | 100 | 310 | Peak |
| 14 | | 8874.00 | 41.56 | -12.44 | 54.00 | 30.22 | 36.22 | 10.30 | 35.18 | 100 | 310 | Average |

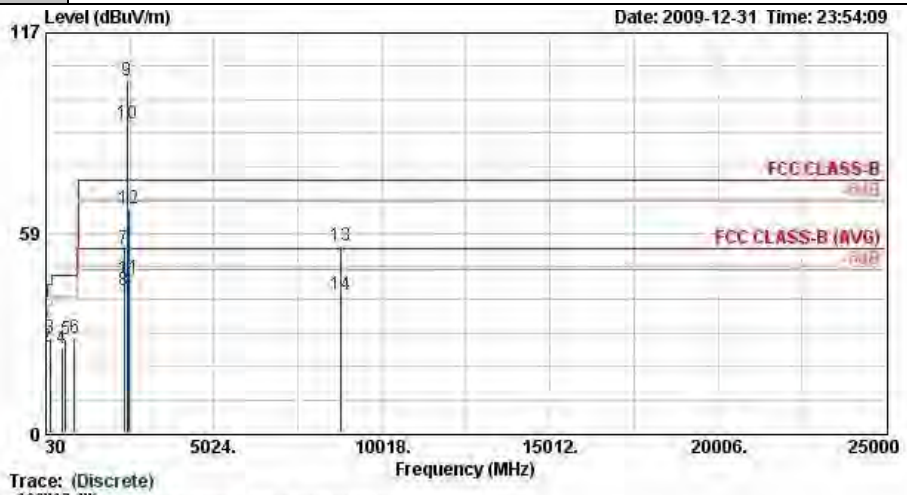
| Test Mode : | Mode 11 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 03 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.27 | 32.44 | -7.56 | 40.00 | 43.99 | 19.51 | 0.64 | 31.70 | 100 | 3 | Peak |
| 2 | 43.50 | 31.92 | -8.08 | 40.00 | 51.35 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | 93.18 | 32.13 | -11.37 | 43.50 | 53.38 | 9.32 | 1.13 | 31.70 | --- | --- | Peak |
| 4 | 500.20 | 23.84 | -22.16 | 46.00 | 33.82 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 28.03 | -17.97 | 46.00 | 35.44 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 693.40 | 26.16 | -19.84 | 46.00 | 32.75 | 20.79 | 3.53 | 30.91 | --- | --- | Peak |
| 7 | 2388.66 | 43.76 | -10.24 | 54.00 | 40.32 | 32.13 | 5.46 | 34.15 | 100 | 4 | Average |
| 8 ! | 2388.66 | 70.37 | -3.63 | 74.00 | 66.93 | 32.13 | 5.46 | 34.15 | 100 | 4 | Peak |
| 9 X | 2422.00 | 107.58 | | | 104.13 | 32.19 | 5.43 | 34.17 | 100 | 4 | Peak |
| 10 @ | 2422.00 | 94.32 | | | 90.87 | 32.19 | 5.43 | 34.17 | 100 | 4 | Average |
| 11 | 2484.00 | 43.79 | -10.21 | 54.00 | 40.32 | 32.27 | 5.38 | 34.19 | 100 | 4 | Average |
| 12 | 2484.00 | 56.26 | -17.74 | 74.00 | 52.80 | 32.27 | 5.38 | 34.19 | 100 | 4 | Peak |
| 13 | 8865.00 | 54.58 | -19.42 | 74.00 | 43.23 | 36.22 | 10.30 | 35.17 | 100 | 163 | Peak |
| 14 | 8865.00 | 41.99 | -12.01 | 54.00 | 30.64 | 36.22 | 10.30 | 35.17 | 100 | 163 | Average |

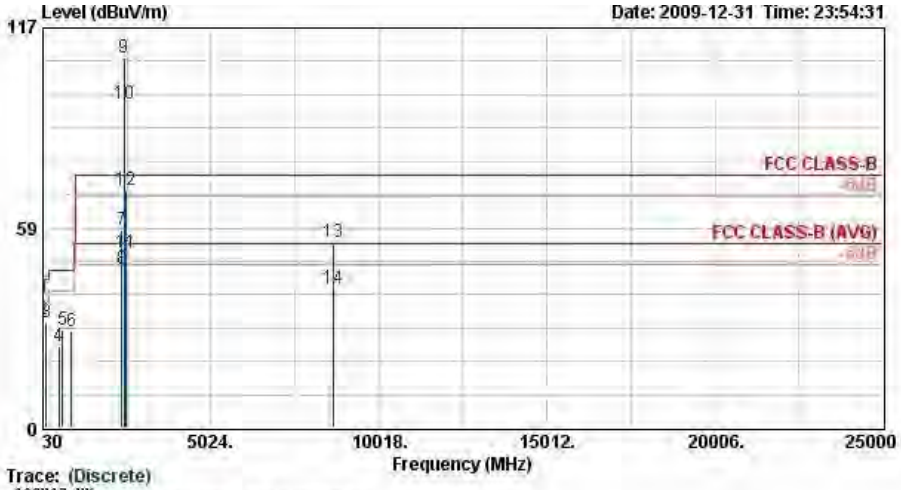
| Test Mode : | Mode 12 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 09 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 34.86 | 30.64 | -9.36 | 40.00 | 44.93 | 16.73 | 0.68 | 31.70 | 100 | 223 | Peak |
| 2 | 44.58 | 25.13 | -14.87 | 40.00 | 45.19 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | 145.29 | 27.75 | -15.75 | 43.50 | 46.53 | 11.43 | 1.44 | 31.65 | --- | --- | Peak |
| 4 | 500.20 | 24.92 | -21.08 | 46.00 | 34.90 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 27.34 | -18.66 | 46.00 | 34.74 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 875.40 | 28.05 | -17.95 | 46.00 | 31.74 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2350.00 | 53.87 | -20.13 | 74.00 | 50.45 | 32.05 | 5.50 | 34.14 | 133 | 52 | Peak |
| 8 | 2350.00 | 41.74 | -12.26 | 54.00 | 38.33 | 32.05 | 5.50 | 34.14 | 133 | 52 | Average |
| 9 X | 2452.00 | 102.97 | | | 99.50 | 32.24 | 5.40 | 34.18 | 133 | 52 | Peak |
| 10 X | 2452.00 | 90.52 | | | 87.07 | 32.22 | 5.41 | 34.18 | 133 | 52 | Average |
| 11 | 2483.66 | 45.40 | -8.60 | 54.00 | 41.93 | 32.27 | 5.38 | 34.19 | 133 | 52 | Average |
| 12 | 2483.66 | 65.51 | -8.49 | 74.00 | 62.04 | 32.27 | 5.38 | 34.19 | 133 | 52 | Peak |
| 13 | 8814.00 | 54.71 | -19.29 | 74.00 | 43.40 | 36.19 | 10.28 | 35.16 | 100 | 34 | Peak |
| 14 | 8814.00 | 40.65 | -13.35 | 54.00 | 29.34 | 36.19 | 10.28 | 35.16 | 100 | 34 | Average |

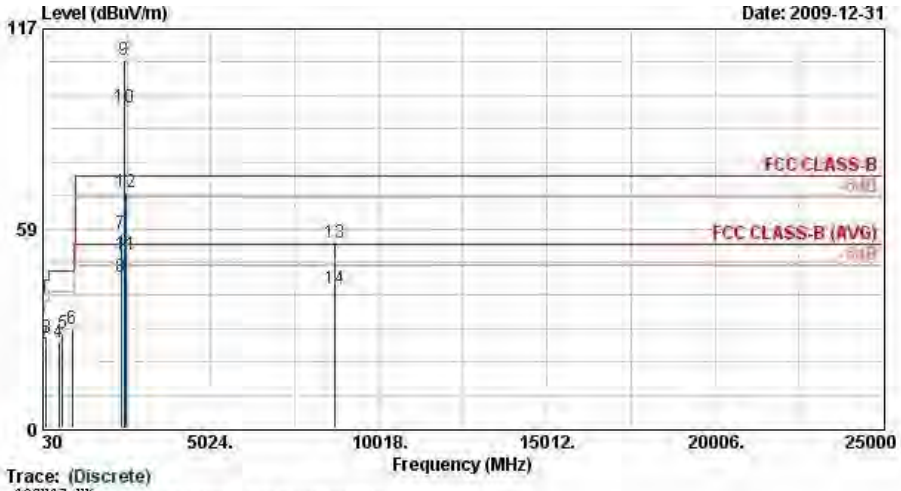
| Test Mode : | Mode 12 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 09 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.81 | 32.15 | -7.85 | 40.00 | 44.25 | 18.95 | 0.65 | 31.70 | 100 | 132 | Peak |
| 2 | | 42.69 | 31.78 | -8.22 | 40.00 | 50.58 | 12.18 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 123.42 | 30.80 | -12.70 | 43.50 | 49.17 | 11.98 | 1.32 | 31.68 | --- | --- | Peak |
| 4 | | 500.20 | 24.03 | -21.97 | 46.00 | 34.01 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 28.85 | -17.15 | 46.00 | 36.25 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 875.40 | 28.41 | -17.59 | 46.00 | 32.10 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | | 2382.00 | 57.72 | -16.28 | 74.00 | 54.29 | 32.11 | 5.47 | 34.15 | 100 | 10 | Peak |
| 8 | | 2382.00 | 46.57 | -7.43 | 54.00 | 43.14 | 32.11 | 5.47 | 34.15 | 100 | 10 | Average |
| 9 | X | 2452.00 | 108.10 | | | 104.65 | 32.22 | 5.41 | 34.18 | 100 | 10 | Peak |
| 10 | @ | 2452.00 | 94.75 | | | 91.30 | 32.22 | 5.41 | 34.18 | 100 | 10 | Average |
| 11 | ! | 2483.66 | 51.14 | -2.86 | 54.00 | 47.67 | 32.27 | 5.38 | 34.19 | 100 | 10 | Average |
| 12 | ! | 2483.66 | 69.42 | -4.58 | 74.00 | 65.95 | 32.27 | 5.38 | 34.19 | 100 | 10 | Peak |
| 13 | | 8682.00 | 54.34 | -19.66 | 74.00 | 43.13 | 36.11 | 10.24 | 35.14 | 100 | 164 | Peak |
| 14 | | 8682.00 | 40.88 | -13.12 | 54.00 | 29.67 | 36.11 | 10.24 | 35.14 | 100 | 164 | Average |

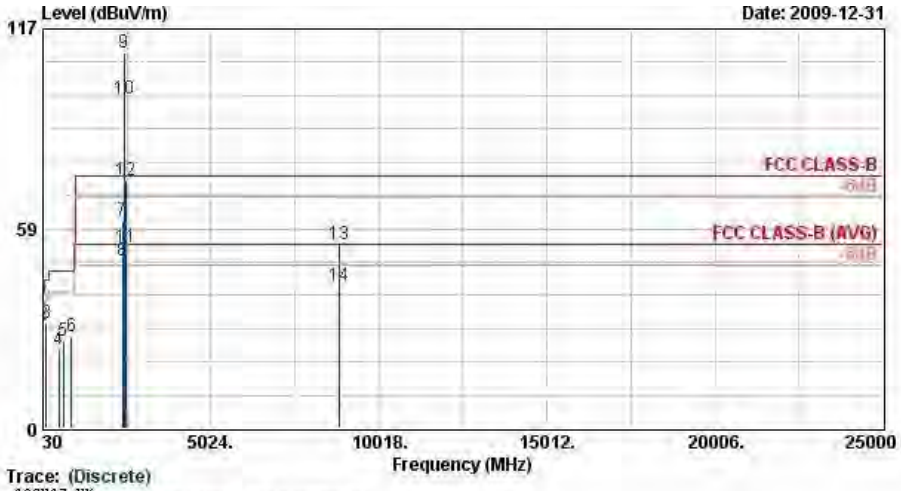
| Test Mode : | Mode 13 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 09 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 28.34 | -11.66 | 40.00 | 39.89 | 19.51 | 0.64 | 31.70 | 100 | 76 | Peak |
| 2 | 44.58 | 24.93 | -15.07 | 40.00 | 44.99 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | 125.58 | 26.47 | -17.03 | 43.50 | 44.98 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | 500.20 | 25.11 | -20.89 | 46.00 | 35.09 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 27.85 | -18.15 | 46.00 | 35.25 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 903.40 | 29.28 | -16.72 | 46.00 | 32.58 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | 2350.00 | 56.78 | -17.22 | 74.00 | 53.36 | 32.05 | 5.50 | 34.14 | 100 | 52 | Peak |
| 8 | 2350.00 | 44.23 | -9.77 | 54.00 | 40.82 | 32.05 | 5.50 | 34.14 | 100 | 52 | Average |
| 9 X | 2452.00 | 107.99 | | | 104.53 | 32.24 | 5.40 | 34.18 | 100 | 52 | Peak |
| 10 X | 2452.00 | 94.10 | | | 90.65 | 32.22 | 5.41 | 34.18 | 100 | 52 | Average |
| 11 ! | 2483.50 | 50.95 | -3.05 | 54.00 | 47.48 | 32.27 | 5.38 | 34.19 | 100 | 52 | Average |
| 12 ! | 2483.50 | 69.31 | -4.69 | 74.00 | 65.84 | 32.27 | 5.38 | 34.19 | 100 | 52 | Peak |
| 13 | 8706.00 | 54.40 | -19.60 | 74.00 | 43.18 | 36.12 | 10.24 | 35.14 | 100 | 132 | Peak |
| 14 | 8706.00 | 41.05 | -12.95 | 54.00 | 29.83 | 36.12 | 10.24 | 35.14 | 100 | 132 | Average |

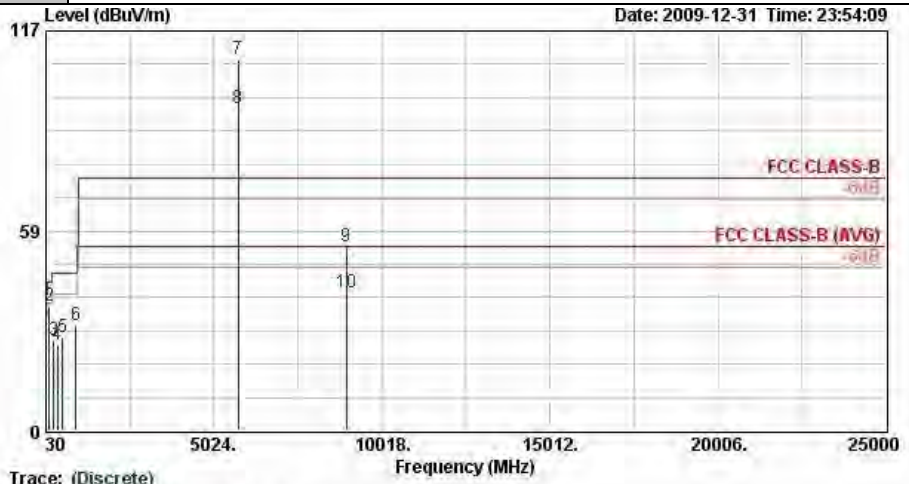
| Test Mode : | Mode 13 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 09 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 31.88 | -8.12 | 40.00 | 43.43 | 19.51 | 0.64 | 31.70 | 100 | 164 | Peak |
| 2 | 44.58 | 30.38 | -9.62 | 40.00 | 50.44 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | 122.61 | 30.88 | -12.62 | 43.50 | 49.19 | 12.06 | 1.31 | 31.68 | --- | --- | Peak |
| 4 | 500.20 | 22.86 | -23.14 | 46.00 | 32.84 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 626.20 | 25.86 | -20.14 | 46.00 | 33.23 | 20.27 | 3.33 | 30.97 | --- | --- | Peak |
| 6 | 875.40 | 27.00 | -19.00 | 46.00 | 30.69 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | 2388.00 | 61.11 | -12.89 | 74.00 | 57.67 | 32.13 | 5.46 | 34.15 | 100 | 0 | Peak |
| 8 ! | 2388.00 | 49.19 | -4.81 | 54.00 | 45.75 | 32.13 | 5.46 | 34.15 | 100 | 0 | Average |
| 9 X | 2452.00 | 109.84 | | | 106.38 | 32.22 | 5.41 | 34.17 | 100 | 0 | Peak |
| 10 @ | 2452.00 | 96.68 | | | 93.23 | 32.22 | 5.41 | 34.18 | 100 | 0 | Average |
| 11 ! | 2485.94 | 53.05 | -0.95 | 54.00 | 49.58 | 32.27 | 5.38 | 34.19 | 100 | 0 | Average |
| 12 ! | 2485.94 | 72.82 | -1.18 | 74.00 | 69.35 | 32.27 | 5.38 | 34.19 | 100 | 0 | Peak |
| 13 | 8841.00 | 54.09 | -19.91 | 74.00 | 42.77 | 36.20 | 10.29 | 35.17 | 100 | 55 | Peak |
| 14 | 8841.00 | 41.54 | -12.46 | 54.00 | 30.22 | 36.20 | 10.29 | 35.17 | 100 | 55 | Average |

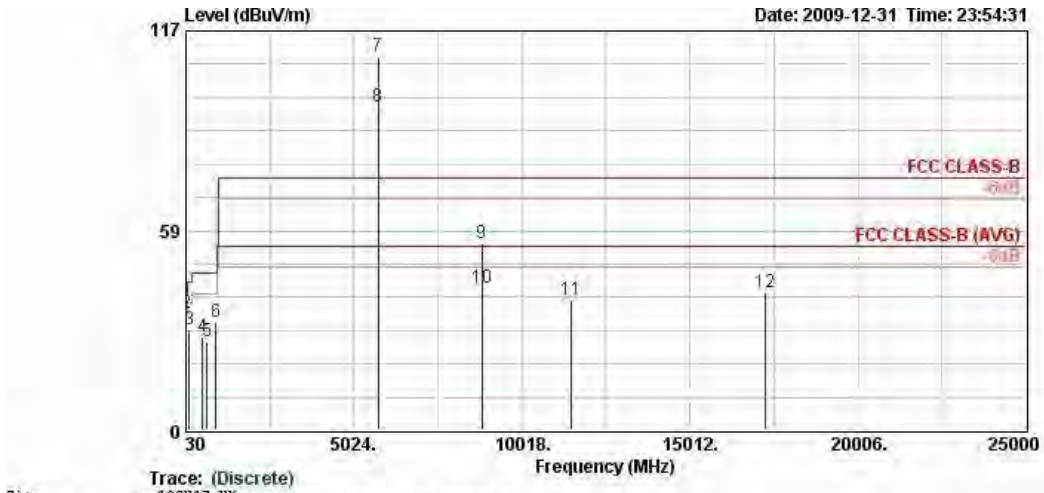
| Test Mode : | Mode 14 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 149 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

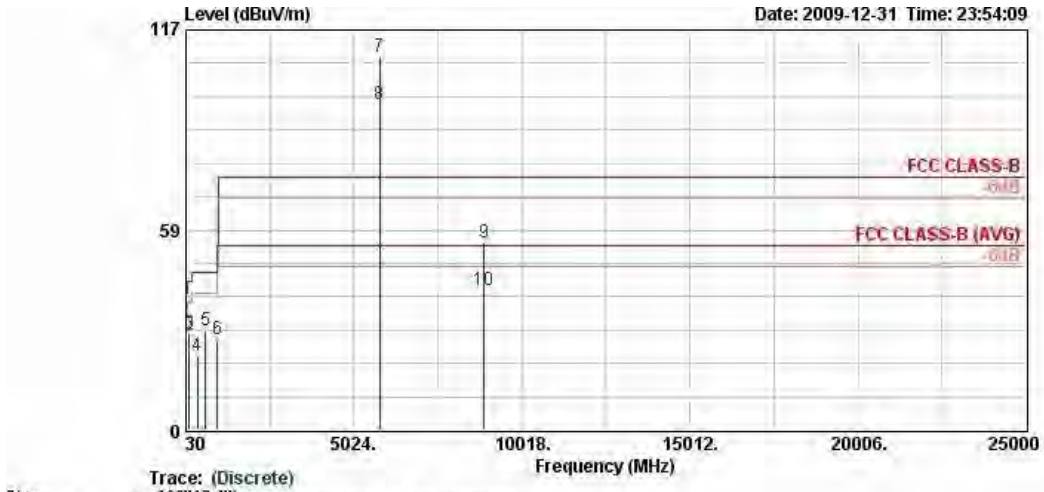
| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 44.85 | 29.23 | -10.77 | 40.00 | 49.29 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | 124.77 | 36.65 | -6.85 | 43.50 | 55.17 | 11.81 | 1.35 | 31.67 | 100 | 26 | Peak |
| 3 | 265.17 | 26.38 | -19.62 | 46.00 | 42.91 | 12.97 | 1.97 | 31.47 | --- | --- | Peak |
| 4 | 363.70 | 25.38 | -20.62 | 46.00 | 39.09 | 15.16 | 2.41 | 31.27 | --- | --- | Peak |
| 5 | 519.80 | 27.29 | -18.71 | 46.00 | 36.82 | 18.55 | 3.00 | 31.08 | --- | --- | Peak |
| 6 | 918.10 | 31.00 | -15.00 | 46.00 | 34.03 | 23.46 | 4.20 | 30.68 | --- | --- | Peak |
| 7 X | 5745.00 | 108.58 | | | 99.63 | 35.04 | 8.41 | 34.50 | 154 | 43 | Peak |
| 8 X | 5745.00 | 94.34 | | | 85.39 | 35.04 | 8.41 | 34.50 | 154 | 43 | Average |
| 9 | 8948.00 | 53.91 | -20.09 | 74.00 | 42.51 | 36.27 | 10.32 | 35.19 | 100 | 27 | Peak |
| 10 | 8948.00 | 40.53 | -13.47 | 54.00 | 29.13 | 36.27 | 10.32 | 35.19 | 100 | 27 | Average |

| Test Mode : | Mode 14 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 149 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored.<br>#12 is not in the restricted band. | | |



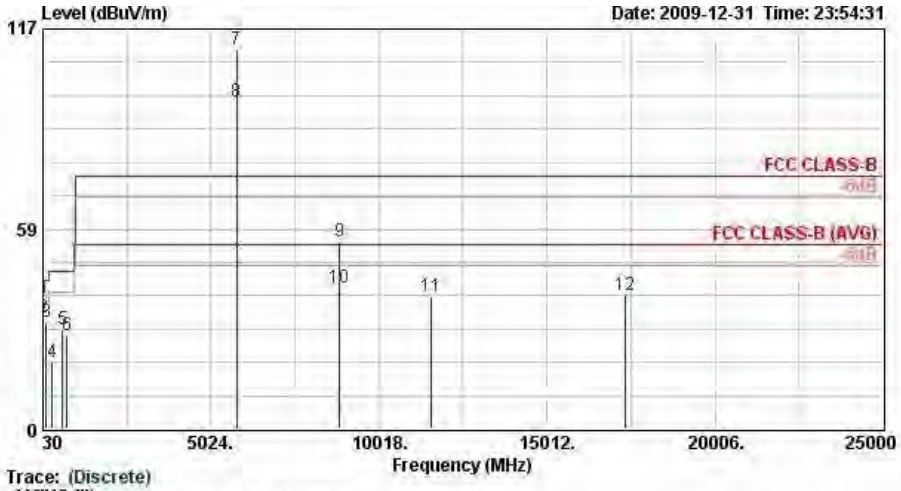

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.54 | 33.13 | -6.87 | 40.00 | 45.23 | 18.95 | 0.65 | 31.70 | --- | --- | Peak |
| 2 | ! | 44.85 | 34.39 | -5.61 | 40.00 | 54.45 | 10.92 | 0.72 | 31.70 | 100 | 20 | Peak |
| 3 | | 126.66 | 29.63 | -13.87 | 43.50 | 48.15 | 11.80 | 1.36 | 31.67 | --- | --- | Peak |
| 4 | | 517.70 | 27.60 | -18.40 | 46.00 | 37.18 | 18.51 | 2.99 | 31.08 | --- | --- | Peak |
| 5 | | 662.60 | 26.13 | -19.87 | 46.00 | 33.08 | 20.55 | 3.45 | 30.94 | --- | --- | Peak |
| 6 | | 928.60 | 31.87 | -14.13 | 46.00 | 34.72 | 23.61 | 4.22 | 30.67 | --- | --- | Peak |
| 7 | X | 5745.00 | 109.63 | | | 100.69 | 35.04 | 8.41 | 34.50 | 102 | 15 | Peak |
| 8 | @ | 5745.00 | 94.86 | | | 85.91 | 35.04 | 8.41 | 34.50 | 102 | 15 | Average |
| 9 | | 8820.00 | 54.95 | -19.05 | 74.00 | 43.64 | 36.19 | 10.28 | 35.17 | 100 | 38 | Peak |
| 10 | | 8820.00 | 41.58 | -12.42 | 54.00 | 30.27 | 36.19 | 10.28 | 35.17 | 100 | 38 | Average |
| 11 | | 11490.00 | 38.38 | -35.62 | 74.00 | 73.06 | -11.73 | 11.65 | 34.60 | 100 | 0 | Peak |
| 12 | | 17235.00 | 40.38 | -33.62 | 74.00 | 70.87 | -11.07 | 14.83 | 34.26 | 100 | 0 | Peak |

| Test Mode : | Mode 15 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 157 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 43.77 | 28.49 | -11.51 | 40.00 | 47.92 | 11.55 | 0.72 | 31.70 | 100 | 57 | Peak |
| 2 | 125.85 | 27.66 | -15.84 | 43.50 | 46.18 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | 136.38 | 28.29 | -15.21 | 43.50 | 46.84 | 11.72 | 1.39 | 31.66 | --- | --- | Peak |
| 4 | 374.20 | 21.76 | -24.24 | 46.00 | 35.10 | 15.44 | 2.47 | 31.25 | --- | --- | Peak |
| 5 | 624.10 | 29.02 | -16.98 | 46.00 | 36.42 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 957.30 | 26.41 | -19.59 | 46.00 | 28.73 | 24.04 | 4.28 | 30.64 | --- | --- | Peak |
| 7 X | 5785.00 | 109.05 | | | 100.06 | 35.09 | 8.42 | 34.52 | 148 | 43 | Peak |
| 8 @ | 5785.00 | 95.16 | | | 86.18 | 35.09 | 8.42 | 34.52 | 148 | 43 | Average |
| 9 | 8884.00 | 54.81 | -19.19 | 74.00 | 43.45 | 36.23 | 10.30 | 35.18 | 100 | 31 | Peak |
| 10 | 8884.00 | 40.77 | -13.23 | 54.00 | 29.41 | 36.23 | 10.30 | 35.18 | 100 | 31 | Average |

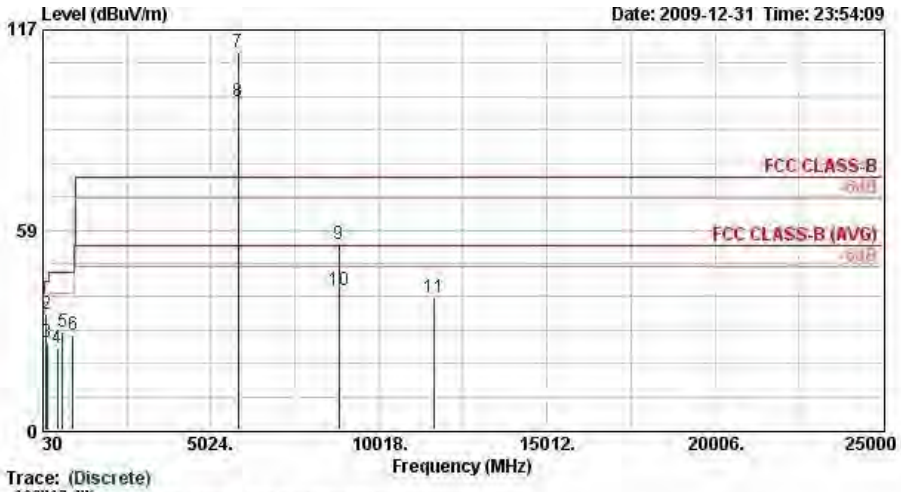
| Test Mode : | Mode 15 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 157 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored.<br>#12 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.27 | 32.90 | -7.10 | 40.00 | 44.45 | 19.51 | 0.64 | 31.70 | 100 | 56 | Peak |
| 2 | | 43.23 | 32.60 | -7.40 | 40.00 | 52.03 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 119.10 | 31.11 | -12.39 | 43.50 | 49.38 | 12.14 | 1.27 | 31.68 | --- | --- | Peak |
| 4 | | 309.80 | 19.72 | -26.28 | 46.00 | 35.21 | 13.72 | 2.17 | 31.38 | --- | --- | Peak |
| 5 | | 624.10 | 29.03 | -16.97 | 46.00 | 36.43 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 750.10 | 27.53 | -18.47 | 46.00 | 33.11 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 7 | X | 5785.00 | 111.03 | | | 102.05 | 35.09 | 8.42 | 34.52 | 100 | 16 | Peak |
| 8 | @ | 5785.00 | 95.79 | | | 86.81 | 35.09 | 8.42 | 34.52 | 100 | 16 | Average |
| 9 | | 8852.00 | 54.91 | -19.09 | 74.00 | 43.58 | 36.21 | 10.29 | 35.17 | 100 | 57 | Peak |
| 10 | | 8852.00 | 41.40 | -12.60 | 54.00 | 30.07 | 36.21 | 10.29 | 35.17 | 100 | 57 | Average |
| 11 | | 11570.00 | 38.92 | -35.08 | 74.00 | 73.35 | -11.49 | 11.69 | 34.63 | 100 | 0 | Peak |
| 12 | | 17355.00 | 39.17 | -34.83 | 74.00 | 69.97 | -11.57 | 15.00 | 34.23 | 100 | 0 | Peak |

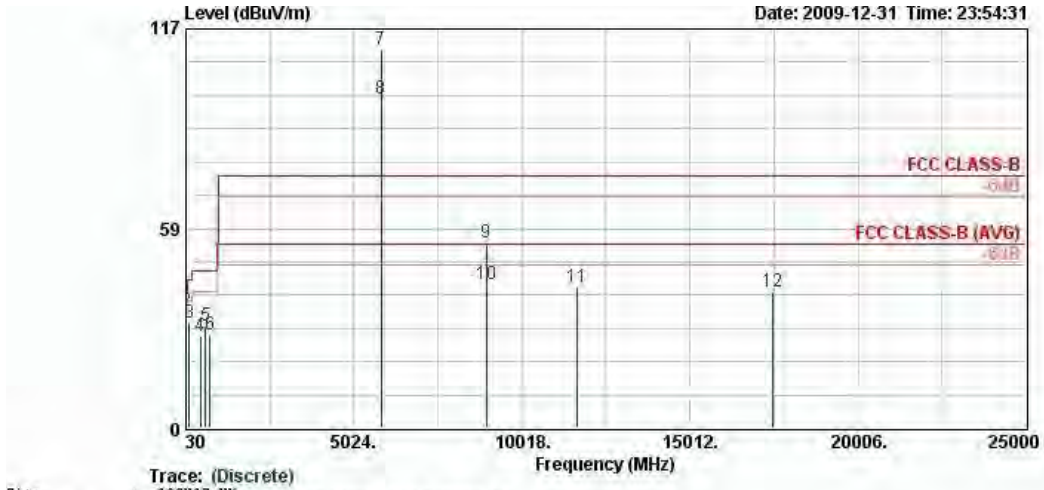
| Test Mode : | Mode 16 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 29.23 | -10.77 | 40.00 | 49.29 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | | 125.85 | 33.85 | -9.65 | 43.50 | 52.37 | 11.80 | 1.35 | 31.67 | 100 | 168 | Peak |
| 3 | | 146.10 | 25.62 | -17.88 | 43.50 | 44.45 | 11.38 | 1.44 | 31.65 | --- | --- | Peak |
| 4 | | 463.80 | 24.00 | -22.00 | 46.00 | 34.88 | 17.42 | 2.83 | 31.14 | --- | --- | Peak |
| 5 | | 624.10 | 28.54 | -17.46 | 46.00 | 35.94 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 929.30 | 27.83 | -18.17 | 46.00 | 30.66 | 23.62 | 4.22 | 30.67 | --- | --- | Peak |
| 7 | X | 5825.00 | 110.42 | | | 101.36 | 35.16 | 8.43 | 34.53 | 161 | 37 | Peak |
| 8 | @ | 5825.00 | 95.93 | | | 86.87 | 35.16 | 8.43 | 34.53 | 161 | 37 | Average |
| 9 | | 8836.00 | 54.39 | -19.61 | 74.00 | 43.07 | 36.20 | 10.29 | 35.17 | 100 | 75 | Peak |
| 10 | | 8836.00 | 41.02 | -12.98 | 54.00 | 29.70 | 36.20 | 10.29 | 35.17 | 100 | 75 | Average |
| 11 | | 11650.00 | 38.70 | -35.30 | 74.00 | 72.76 | -11.14 | 11.74 | 34.66 | 100 | 0 | Peak |

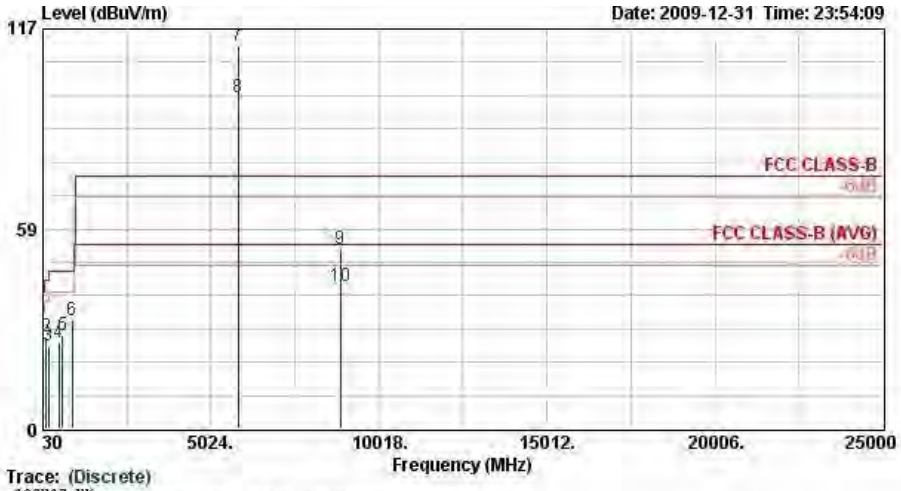
| Test Mode : | Mode 16 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored.<br>#12 is not in the restricted band. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | ! | 30.27 | 34.54 | -5.46 | 40.00 | 46.09 | 19.51 | 0.64 | 31.70 | 100 | 59 | Peak |
| 2 | ! | 44.58 | 34.36 | -5.64 | 40.00 | 54.42 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 123.69 | 31.01 | -12.49 | 43.50 | 49.46 | 11.89 | 1.34 | 31.68 | --- | --- | Peak |
| 4 | | 449.80 | 27.02 | -18.98 | 46.00 | 38.22 | 17.15 | 2.81 | 31.15 | --- | --- | Peak |
| 5 | | 624.10 | 29.91 | -16.09 | 46.00 | 37.31 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 750.10 | 27.48 | -18.52 | 46.00 | 33.06 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 7 | X | 5825.00 | 111.04 | | | 101.98 | 35.16 | 8.43 | 34.53 | 100 | 16 | Peak |
| 8 | @ | 5825.00 | 96.49 | | | 87.43 | 35.16 | 8.43 | 34.53 | 100 | 16 | Average |
| 9 | | 8966.00 | 54.45 | -19.55 | 74.00 | 43.03 | 36.28 | 10.33 | 35.19 | 100 | 38 | Peak |
| 10 | | 8966.00 | 42.17 | -11.83 | 54.00 | 30.75 | 36.28 | 10.33 | 35.19 | 100 | 38 | Average |
| 11 | | 11650.00 | 41.13 | -32.87 | 74.00 | 75.19 | -11.14 | 11.74 | 34.66 | 100 | 0 | Peak |
| 12 | | 17475.00 | 40.22 | | | 71.37 | -12.12 | 15.17 | 34.21 | 100 | 0 | Peak |

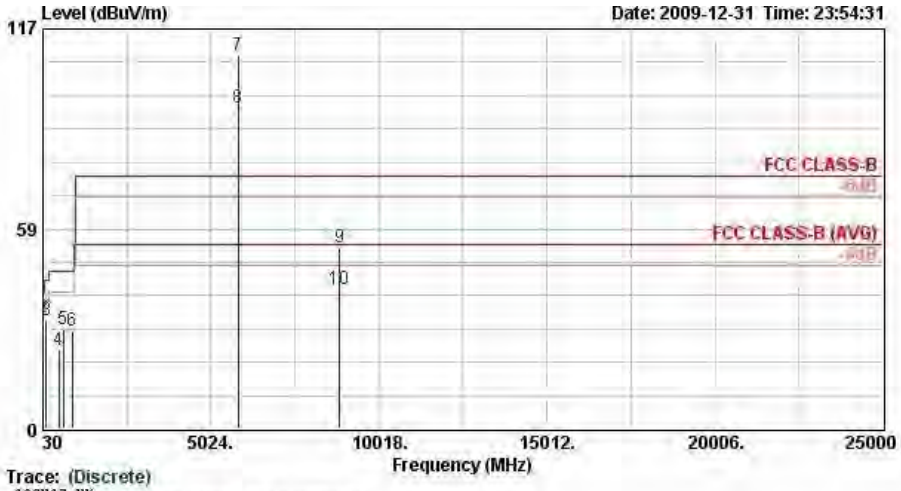
| Test Mode : | Mode 17 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 43.77 | 25.27 | -14.73 | 40.00 | 44.70 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | | 124.77 | 26.89 | -16.61 | 43.50 | 45.40 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | | 184.98 | 24.21 | -19.29 | 43.50 | 45.20 | 8.98 | 1.64 | 31.61 | --- | --- | Peak |
| 4 | | 500.20 | 25.13 | -20.87 | 46.00 | 35.11 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 27.26 | -18.74 | 46.00 | 34.66 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 903.40 | 31.74 | -14.26 | 46.00 | 35.04 | 23.22 | 4.17 | 30.70 | 100 | 67 | Peak |
| 7 | X | 5825.00 | 112.15 | | | 103.10 | 35.16 | 8.43 | 34.53 | 100 | 312 | Peak |
| 8 | @ | 5825.00 | 96.98 | | | 87.92 | 35.16 | 8.43 | 34.53 | 100 | 312 | Average |
| 9 | | 8878.00 | 52.76 | -21.24 | 74.00 | 41.42 | 36.22 | 10.30 | 35.18 | 100 | 37 | Peak |
| 10 | | 8878.00 | 41.61 | -12.39 | 54.00 | 30.27 | 36.22 | 10.30 | 35.18 | 100 | 37 | Average |

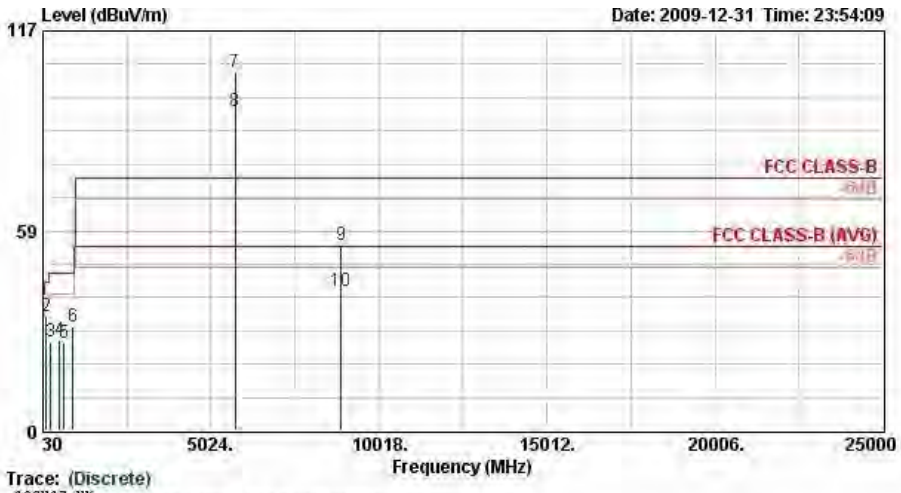
| Test Mode : | Mode 17 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.00 | 33.86 | -6.14 | 40.00 | 45.41 | 19.51 | 0.64 | 31.70 | 100 | 98 | Peak |
| 2 | | 42.96 | 32.64 | -7.36 | 40.00 | 51.44 | 12.18 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 122.88 | 31.60 | -11.90 | 43.50 | 49.98 | 11.98 | 1.32 | 31.68 | --- | --- | Peak |
| 4 | | 500.20 | 23.12 | -22.88 | 46.00 | 33.10 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 631.80 | 29.14 | -16.86 | 46.00 | 36.45 | 20.31 | 3.35 | 30.97 | --- | --- | Peak |
| 6 | | 903.40 | 28.79 | -17.21 | 46.00 | 32.10 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 | X | 5825.00 | 108.98 | | | 99.92 | 35.16 | 8.43 | 34.53 | 100 | 312 | Peak |
| 8 | @ | 5825.00 | 94.08 | | | 85.02 | 35.16 | 8.43 | 34.53 | 100 | 312 | Average |
| 9 | | 8852.00 | 52.93 | -21.07 | 74.00 | 41.60 | 36.21 | 10.29 | 35.17 | 100 | 26 | Peak |
| 10 | | 8852.00 | 41.07 | -12.93 | 54.00 | 29.74 | 36.21 | 10.29 | 35.17 | 100 | 26 | Average |

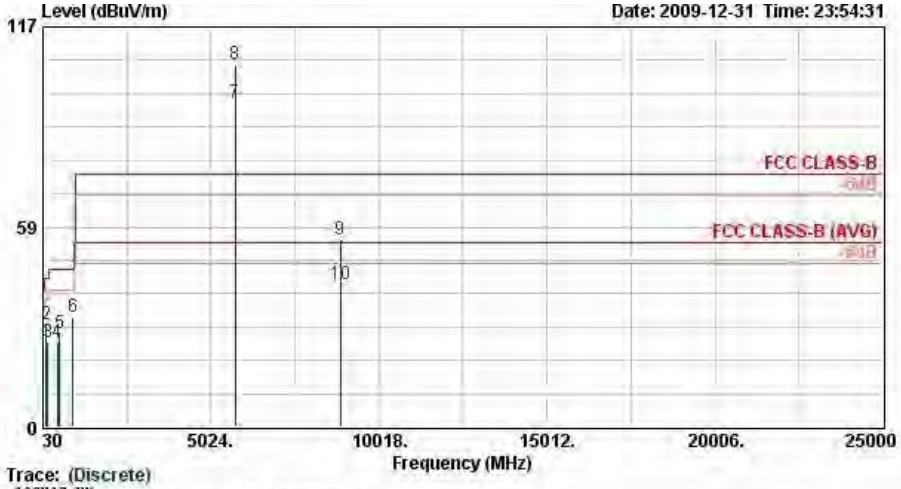
| Test Mode : | Mode 18 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 149 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.85 | 32.51 | -7.49 | 40.00 | 52.57 | 10.92 | 0.72 | 31.70 | 100 | 35 | Peak |
| 2 | | 124.77 | 33.70 | -9.80 | 43.50 | 52.21 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | | 265.98 | 26.18 | -19.82 | 46.00 | 42.70 | 12.99 | 1.97 | 31.47 | --- | --- | Peak |
| 4 | | 519.80 | 26.55 | -19.45 | 46.00 | 36.09 | 18.55 | 3.00 | 31.08 | --- | --- | Peak |
| 5 | | 663.30 | 25.83 | -20.17 | 46.00 | 32.77 | 20.56 | 3.45 | 30.94 | --- | --- | Peak |
| 6 | | 918.10 | 30.28 | -15.72 | 46.00 | 33.31 | 23.46 | 4.20 | 30.68 | --- | --- | Peak |
| 7 | X | 5745.00 | 104.81 | | | 95.86 | 35.04 | 8.41 | 34.50 | 166 | 42 | Peak |
| 8 | @ | 5745.00 | 93.33 | | | 84.38 | 35.04 | 8.41 | 34.50 | 166 | 42 | Average |
| 9 | | 8900.00 | 54.33 | -19.67 | 74.00 | 42.96 | 36.24 | 10.31 | 35.18 | 100 | 63 | Peak |
| 10 | | 8900.00 | 40.82 | -13.18 | 54.00 | 29.45 | 36.24 | 10.31 | 35.18 | 100 | 63 | Average |

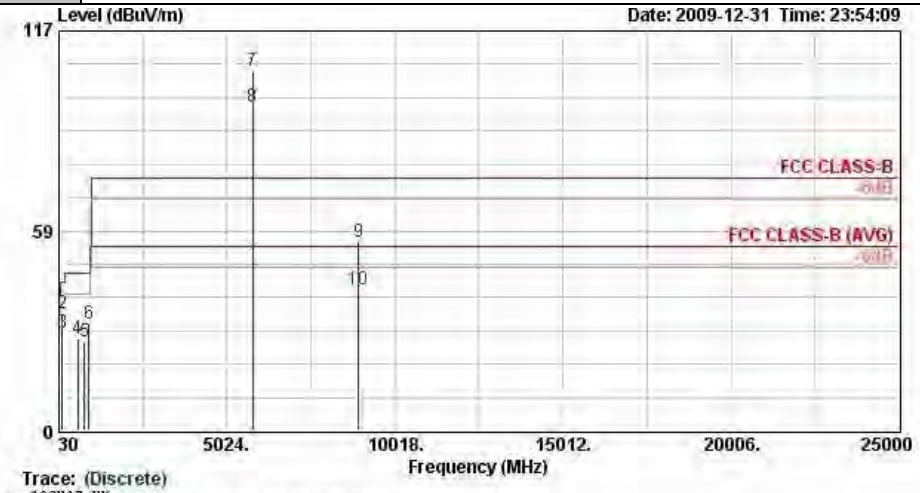
| Test Mode : | Mode 18 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 149 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 41.34 | 32.89 | -7.11 | 40.00 | 51.06 | 12.80 | 0.73 | 31.70 | 100 | 82 | Peak |
| 2 | | 125.31 | 30.16 | -13.34 | 43.50 | 48.67 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | | 171.21 | 24.66 | -18.84 | 43.50 | 45.20 | 9.53 | 1.56 | 31.63 | --- | --- | Peak |
| 4 | | 453.30 | 24.60 | -21.40 | 46.00 | 35.73 | 17.20 | 2.81 | 31.15 | --- | --- | Peak |
| 5 | | 519.80 | 27.47 | -18.53 | 46.00 | 37.00 | 18.55 | 3.00 | 31.08 | --- | --- | Peak |
| 6 | | 928.60 | 32.28 | -13.72 | 46.00 | 35.13 | 23.61 | 4.22 | 30.67 | --- | --- | Peak |
| 7 | X | 5745.00 | 94.70 | | | 85.75 | 35.04 | 8.41 | 34.50 | 103 | 15 | Average |
| 8 | X | 5745.00 | 106.34 | | | 97.39 | 35.04 | 8.41 | 34.50 | 103 | 15 | Peak |
| 9 | | 8870.00 | 54.59 | -19.41 | 74.00 | 43.25 | 36.22 | 10.30 | 35.18 | 100 | 68 | Peak |
| 10 | | 8870.00 | 41.74 | -12.26 | 54.00 | 30.40 | 36.22 | 10.30 | 35.18 | 100 | 68 | Average |

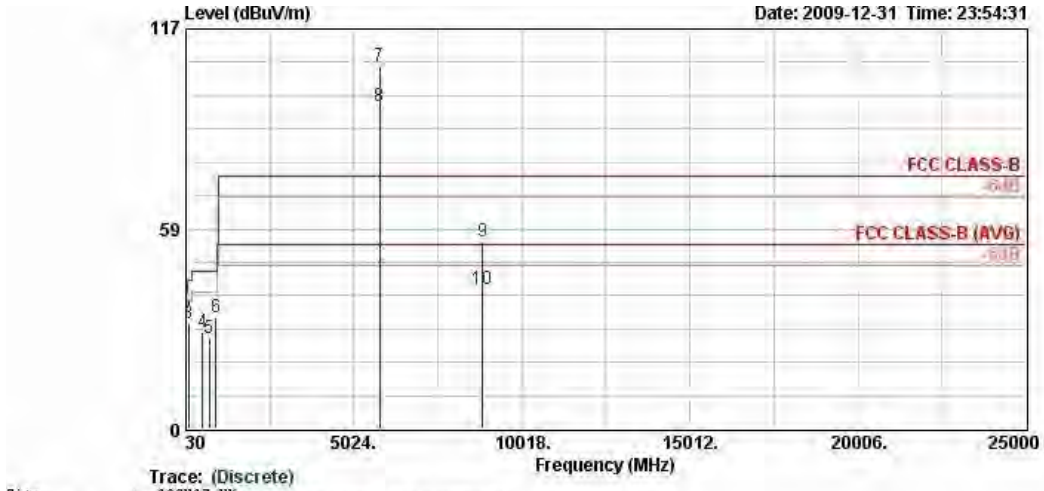
| Test Mode : | Mode 19 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 157 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 44.85 | 25.15 | -14.85 | 40.00 | 45.21 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | 124.77 | 34.53 | -8.97 | 43.50 | 53.05 | 11.81 | 1.35 | 31.67 | 100 | 93 | Peak |
| 3 | 136.38 | 28.89 | -14.61 | 43.50 | 47.44 | 11.72 | 1.39 | 31.66 | --- | --- | Peak |
| 4 | 596.10 | 26.84 | -19.16 | 46.00 | 34.61 | 20.00 | 3.24 | 31.00 | --- | --- | Peak |
| 5 | 780.90 | 26.22 | -19.78 | 46.00 | 31.21 | 21.95 | 3.79 | 30.74 | --- | --- | Peak |
| 6 | 918.10 | 31.40 | -14.60 | 46.00 | 34.43 | 23.46 | 4.20 | 30.68 | --- | --- | Peak |
| 7 X | 5785.00 | 105.45 | | | 96.46 | 35.09 | 8.42 | 34.52 | 151 | 43 | Peak |
| 8 @ | 5785.00 | 94.61 | | | 85.63 | 35.09 | 8.42 | 34.52 | 151 | 43 | Average |
| 9 | 8940.00 | 55.04 | -18.96 | 74.00 | 43.65 | 36.26 | 10.32 | 35.19 | 100 | 99 | Peak |
| 10 | 8940.00 | 41.15 | -12.85 | 54.00 | 29.76 | 36.26 | 10.32 | 35.19 | 100 | 99 | Average |

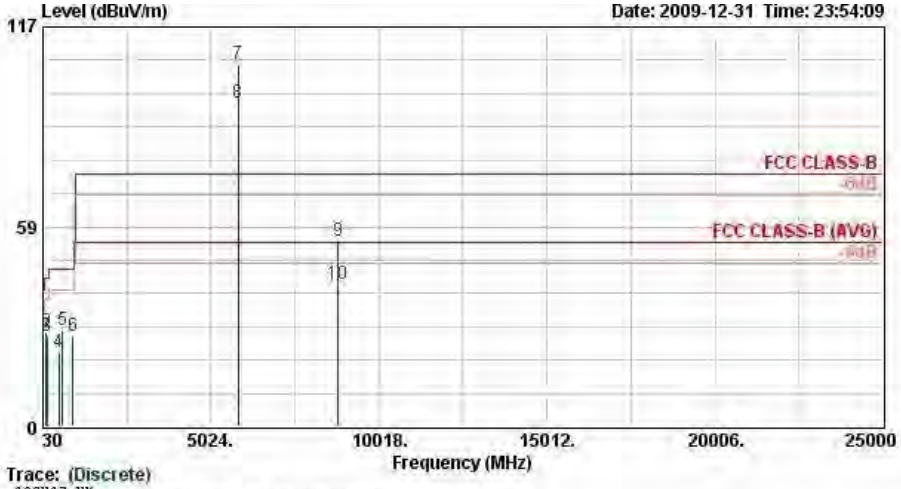
| Test Mode : | Mode 19 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 157 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | ! | 30.00 | 34.79 | -5.21 | 40.00 | 46.34 | 19.51 | 0.64 | 31.70 | 100 | 31 | Peak |
| 2 | | 41.34 | 32.83 | -7.17 | 40.00 | 51.00 | 12.80 | 0.73 | 31.70 | --- | --- | Peak |
| 3 | | 106.41 | 30.80 | -12.70 | 43.50 | 50.33 | 10.97 | 1.20 | 31.69 | --- | --- | Peak |
| 4 | | 519.80 | 28.41 | -17.59 | 46.00 | 37.94 | 18.55 | 3.00 | 31.08 | --- | --- | Peak |
| 5 | | 713.70 | 26.49 | -19.51 | 46.00 | 32.75 | 21.03 | 3.59 | 30.87 | --- | --- | Peak |
| 6 | | 926.50 | 32.48 | -13.52 | 46.00 | 35.36 | 23.58 | 4.21 | 30.67 | --- | --- | Peak |
| 7 | X | 5785.00 | 106.13 | | | 97.13 | 35.09 | 8.42 | 34.51 | 100 | 16 | Peak |
| 8 | @ | 5785.00 | 94.53 | | | 85.55 | 35.09 | 8.42 | 34.52 | 100 | 16 | Average |
| 9 | | 8854.00 | 54.74 | -19.26 | 74.00 | 43.41 | 36.21 | 10.29 | 35.17 | 100 | 44 | Peak |
| 10 | | 8854.00 | 41.01 | -12.99 | 54.00 | 29.68 | 36.21 | 10.29 | 35.17 | 100 | 44 | Average |

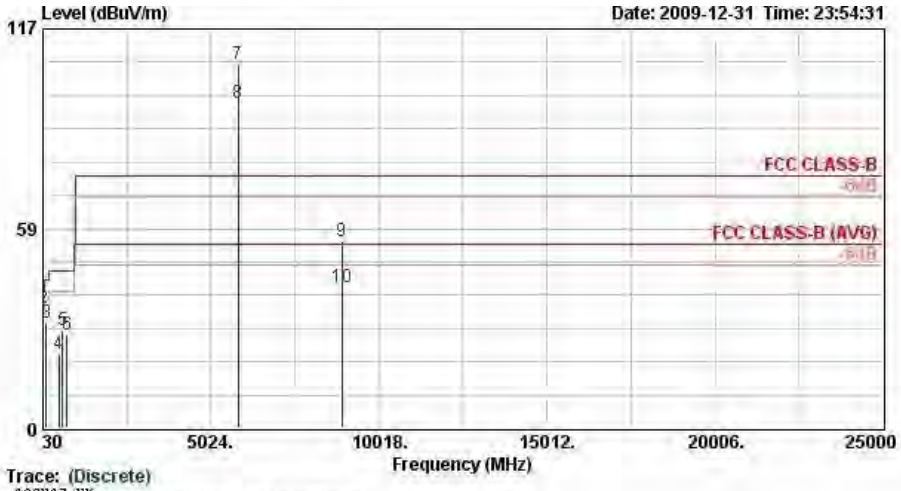
| Test Mode : | Mode 20 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 29.38 | -10.62 | 40.00 | 49.44 | 10.92 | 0.72 | 31.70 | 100 | 61 | Peak |
| 2 | | 135.57 | 27.96 | -15.54 | 43.50 | 46.50 | 11.73 | 1.39 | 31.66 | --- | --- | Peak |
| 3 | | 145.29 | 26.36 | -17.14 | 43.50 | 45.14 | 11.43 | 1.44 | 31.65 | --- | --- | Peak |
| 4 | | 500.20 | 21.60 | -24.40 | 46.00 | 31.58 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 28.45 | -17.55 | 46.00 | 35.85 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 926.50 | 26.58 | -19.42 | 46.00 | 29.47 | 23.58 | 4.21 | 30.67 | --- | --- | Peak |
| 7 | X | 5825.00 | 106.20 | | | 97.14 | 35.16 | 8.43 | 34.53 | 149 | 37 | Peak |
| 8 | @ | 5825.00 | 94.73 | | | 85.67 | 35.16 | 8.43 | 34.53 | 149 | 37 | Average |
| 9 | | 8814.00 | 54.33 | -19.67 | 74.00 | 43.02 | 36.19 | 10.28 | 35.16 | 100 | 145 | Peak |
| 10 | | 8814.00 | 41.55 | -12.45 | 54.00 | 30.24 | 36.19 | 10.28 | 35.16 | 100 | 145 | Average |

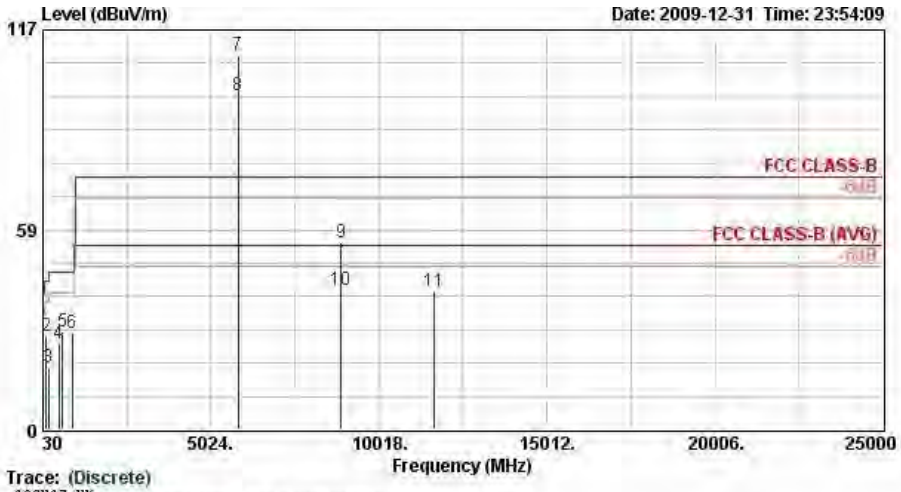
| Test Mode : | Mode 20 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.27 | 33.21 | -6.79 | 40.00 | 44.76 | 19.51 | 0.64 | 31.70 | --- | --- | Peak |
| 2 | ! | 43.77 | 35.21 | -4.79 | 40.00 | 54.64 | 11.55 | 0.72 | 31.70 | 100 | 123 | Peak |
| 3 | | 123.69 | 31.06 | -12.44 | 43.50 | 49.51 | 11.89 | 1.34 | 31.68 | --- | --- | Peak |
| 4 | | 500.20 | 21.84 | -24.16 | 46.00 | 31.82 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 28.68 | -17.32 | 46.00 | 36.09 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 750.10 | 27.54 | -18.46 | 46.00 | 33.12 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 7 | X | 5825.00 | 106.44 | | | 97.41 | 35.13 | 8.42 | 34.53 | 100 | 13 | Peak |
| 8 | @ | 5825.00 | 95.28 | | | 86.22 | 35.16 | 8.43 | 34.53 | 100 | 13 | Average |
| 9 | | 8910.00 | 54.83 | -19.17 | 74.00 | 43.46 | 36.24 | 10.31 | 35.18 | 100 | 69 | Peak |
| 10 | | 8910.00 | 41.48 | -12.52 | 54.00 | 30.11 | 36.24 | 10.31 | 35.18 | 100 | 69 | Average |

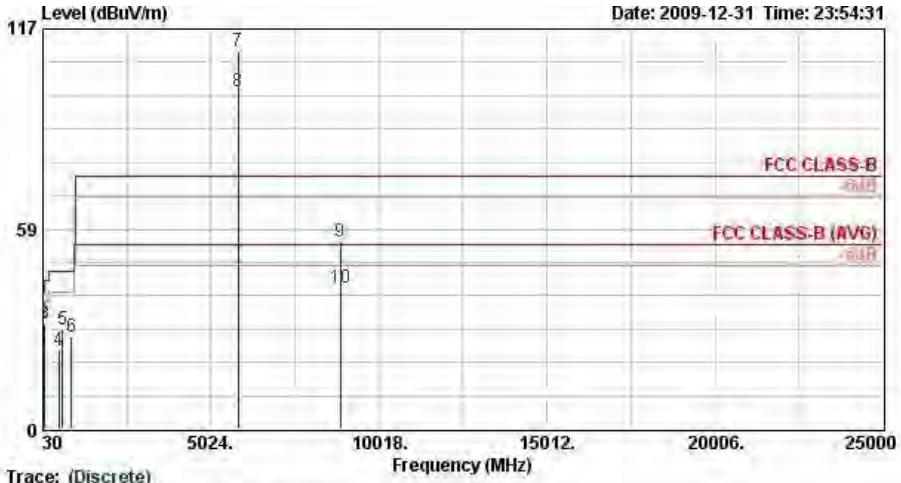
| Test Mode : | Mode 21 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 27.34 | -12.66 | 40.00 | 38.89 | 19.51 | 0.64 | 31.70 | 100 | 147 | Peak |
| 2 | 125.58 | 27.47 | -16.03 | 43.50 | 45.98 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | 202.53 | 18.41 | -25.09 | 43.50 | 39.44 | 8.85 | 1.71 | 31.59 | --- | --- | Peak |
| 4 | 500.20 | 25.11 | -20.89 | 46.00 | 35.09 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 624.10 | 28.85 | -17.15 | 46.00 | 36.25 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | 903.40 | 28.28 | -17.72 | 46.00 | 31.58 | 23.22 | 4.17 | 30.70 | --- | --- | Peak |
| 7 X | 5825.00 | 109.45 | | | 100.39 | 35.16 | 8.43 | 34.53 | 171 | 314 | Peak |
| 8 @ | 5825.00 | 97.80 | | | 88.74 | 35.16 | 8.43 | 34.53 | 171 | 314 | Average |
| 9 | 8902.00 | 54.96 | -19.04 | 74.00 | 43.60 | 36.24 | 10.31 | 35.18 | 100 | 193 | Peak |
| 10 | 8902.00 | 41.03 | -12.97 | 54.00 | 29.66 | 36.24 | 10.31 | 35.18 | 100 | 193 | Average |
| 11 | 11650.00 | 40.51 | -33.49 | 74.00 | 74.57 | -11.14 | 11.74 | 34.66 | 100 | 0 | Peak |

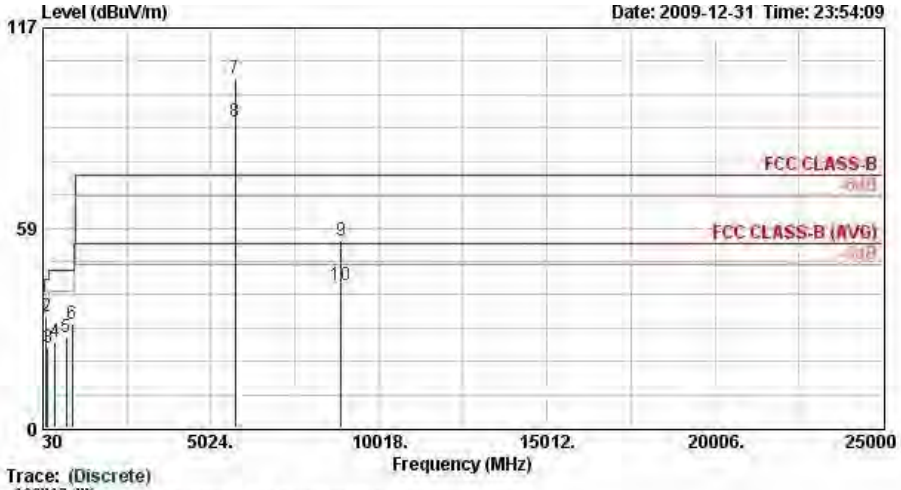
| Test Mode : | Mode 21 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.00 | 32.88 | -7.12 | 40.00 | 44.43 | 19.51 | 0.64 | 31.70 | 100 | 357 | Peak |
| 2 | | 44.58 | 31.38 | -8.62 | 40.00 | 51.44 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 92.37 | 30.95 | -12.55 | 43.50 | 52.35 | 9.17 | 1.12 | 31.70 | --- | --- | Peak |
| 4 | | 500.20 | 22.86 | -23.14 | 46.00 | 32.84 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 29.21 | -16.79 | 46.00 | 36.61 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 875.40 | 27.00 | -19.00 | 46.00 | 30.69 | 22.95 | 4.06 | 30.70 | --- | --- | Peak |
| 7 | X | 5825.00 | 110.50 | | | 101.44 | 35.16 | 8.43 | 34.53 | 126 | 350 | Peak |
| 8 | @ | 5825.00 | 98.86 | | | 89.80 | 35.16 | 8.43 | 34.53 | 126 | 350 | Average |
| 9 | | 8862.00 | 55.00 | -19.00 | 74.00 | 43.66 | 36.21 | 10.29 | 35.17 | 100 | 133 | Peak |
| 10 | | 8862.00 | 41.41 | -12.59 | 54.00 | 30.08 | 36.21 | 10.29 | 35.17 | 100 | 133 | Average |

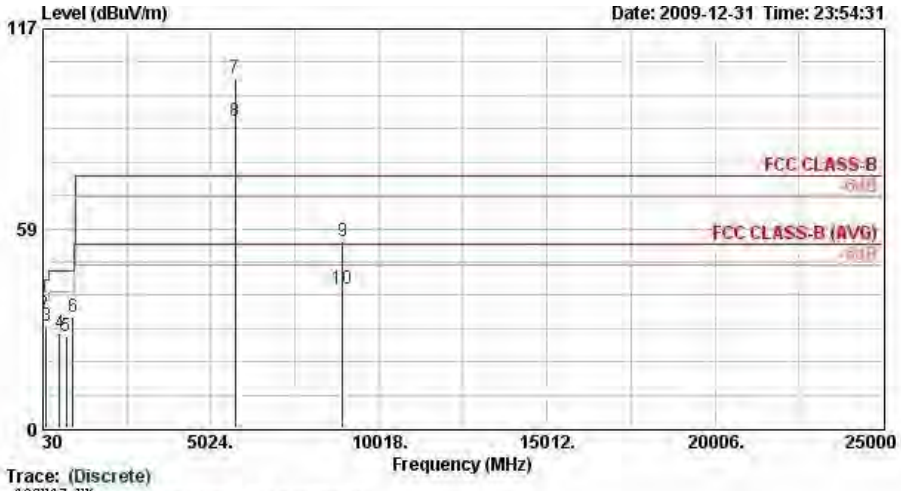
| Test Mode : | Mode 22 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 151 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 44.58 | 25.15 | -14.85 | 40.00 | 45.21 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | 124.77 | 32.80 | -10.70 | 43.50 | 51.32 | 11.81 | 1.35 | 31.67 | 100 | 94 | Peak |
| 3 | 182.82 | 23.51 | -19.99 | 43.50 | 44.49 | 9.00 | 1.63 | 31.62 | --- | --- | Peak |
| 4 | 388.20 | 25.32 | -20.68 | 46.00 | 38.24 | 15.80 | 2.51 | 31.22 | --- | --- | Peak |
| 5 | 713.70 | 26.43 | -19.57 | 46.00 | 32.69 | 21.03 | 3.59 | 30.87 | --- | --- | Peak |
| 6 | 909.00 | 30.66 | -15.34 | 46.00 | 33.86 | 23.31 | 4.18 | 30.69 | --- | --- | Peak |
| 7 X | 5755.00 | 102.41 | | | 93.46 | 35.04 | 8.41 | 34.50 | 158 | 44 | Peak |
| 8 @ | 5755.00 | 89.44 | | | 80.47 | 35.06 | 8.41 | 34.50 | 158 | 44 | Average |
| 9 | 8900.00 | 54.67 | -19.33 | 74.00 | 43.31 | 36.24 | 10.31 | 35.18 | 100 | 55 | Peak |
| 10 | 8900.00 | 41.67 | -12.33 | 54.00 | 30.30 | 36.24 | 10.31 | 35.18 | 100 | 55 | Average |

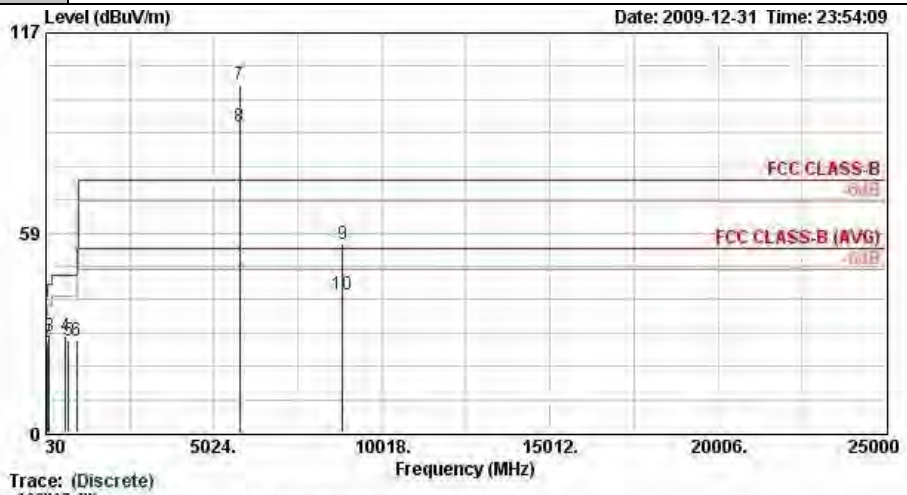
| Test Mode : | Mode 22 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 151 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | ! | 30.00 | 34.28 | -5.72 | 40.00 | 45.83 | 19.51 | 0.64 | 31.70 | 100 | 41 | Peak |
| 2 | | 41.34 | 33.44 | -6.56 | 40.00 | 51.61 | 12.80 | 0.73 | 31.70 | --- | --- | Peak |
| 3 | | 125.04 | 29.82 | -13.68 | 43.50 | 48.33 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | | 519.80 | 27.70 | -18.30 | 46.00 | 37.23 | 18.55 | 3.00 | 31.08 | --- | --- | Peak |
| 5 | | 727.70 | 27.08 | -18.92 | 46.00 | 33.08 | 21.22 | 3.63 | 30.85 | --- | --- | Peak |
| 6 | | 929.30 | 32.57 | -13.43 | 46.00 | 35.40 | 23.62 | 4.22 | 30.67 | --- | --- | Peak |
| 7 | X | 5755.00 | 102.63 | | | 93.68 | 35.04 | 8.41 | 34.50 | 100 | 16 | Peak |
| 8 | @ | 5755.00 | 90.14 | | | 81.17 | 35.06 | 8.41 | 34.50 | 100 | 16 | Average |
| 9 | | 8940.00 | 54.92 | -19.08 | 74.00 | 43.52 | 36.26 | 10.32 | 35.19 | 100 | 62 | Peak |
| 10 | | 8940.00 | 41.01 | -12.99 | 54.00 | 29.62 | 36.26 | 10.32 | 35.19 | 100 | 62 | Average |

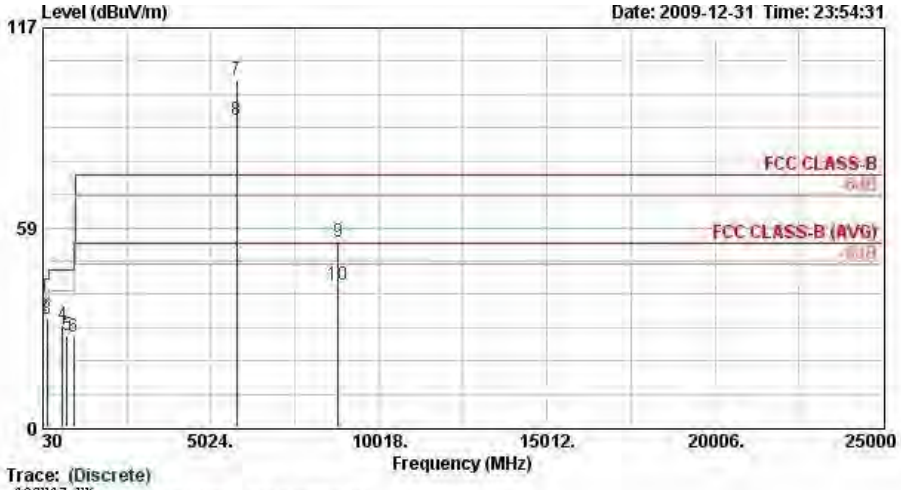
| Test Mode : | Mode 23 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 159 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 29.12 | -10.88 | 40.00 | 49.18 | 10.92 | 0.72 | 31.70 | 100 | 3 | Peak |
| 2 | | 73.74 | 26.33 | -13.67 | 40.00 | 50.10 | 6.95 | 0.97 | 31.70 | --- | --- | Peak |
| 3 | | 135.57 | 28.28 | -15.22 | 43.50 | 46.83 | 11.73 | 1.39 | 31.66 | --- | --- | Peak |
| 4 | | 624.10 | 28.34 | -17.66 | 46.00 | 35.74 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 699.00 | 26.97 | -19.03 | 46.00 | 33.49 | 20.83 | 3.55 | 30.90 | --- | --- | Peak |
| 6 | | 940.50 | 27.14 | -18.86 | 46.00 | 29.76 | 23.80 | 4.24 | 30.66 | --- | --- | Peak |
| 7 | X | 5795.00 | 101.77 | | | 92.78 | 35.09 | 8.42 | 34.51 | 151 | 44 | Peak |
| 8 | @ | 5795.00 | 89.56 | | | 80.55 | 35.11 | 8.42 | 34.52 | 151 | 44 | Average |
| 9 | | 8852.00 | 55.11 | -18.89 | 74.00 | 43.78 | 36.21 | 10.29 | 35.17 | 100 | 67 | Peak |
| 10 | | 8852.00 | 40.43 | -13.57 | 54.00 | 29.10 | 36.21 | 10.29 | 35.17 | 100 | 67 | Average |

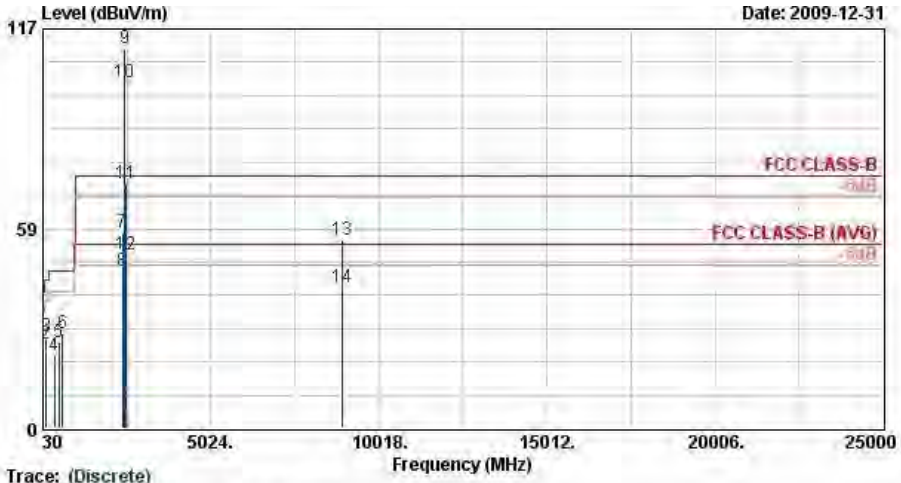
| Test Mode : | Mode 23 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 159 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 31.08 | 33.29 | -6.71 | 40.00 | 45.39 | 18.95 | 0.65 | 31.70 | 100 | 63 | Peak |
| 2 | | 43.77 | 32.63 | -7.37 | 40.00 | 52.06 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 142.86 | 31.94 | -11.56 | 43.50 | 50.62 | 11.56 | 1.42 | 31.66 | --- | --- | Peak |
| 4 | | 624.10 | 29.93 | -16.07 | 46.00 | 37.33 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 750.10 | 27.17 | -18.83 | 46.00 | 32.75 | 21.52 | 3.70 | 30.80 | --- | --- | Peak |
| 6 | | 937.00 | 26.33 | -19.67 | 46.00 | 29.02 | 23.74 | 4.23 | 30.66 | --- | --- | Peak |
| 7 | X | 5795.00 | 101.75 | | | 92.71 | 35.13 | 8.42 | 34.52 | 100 | 18 | Peak |
| 8 | @ | 5795.00 | 90.01 | | | 81.00 | 35.11 | 8.42 | 34.52 | 100 | 18 | Average |
| 9 | | 8798.00 | 54.55 | -19.45 | 74.00 | 43.26 | 36.18 | 10.28 | 35.16 | 100 | 91 | Peak |
| 10 | | 8798.00 | 41.90 | -12.10 | 54.00 | 30.60 | 36.18 | 10.28 | 35.16 | 100 | 91 | Average |

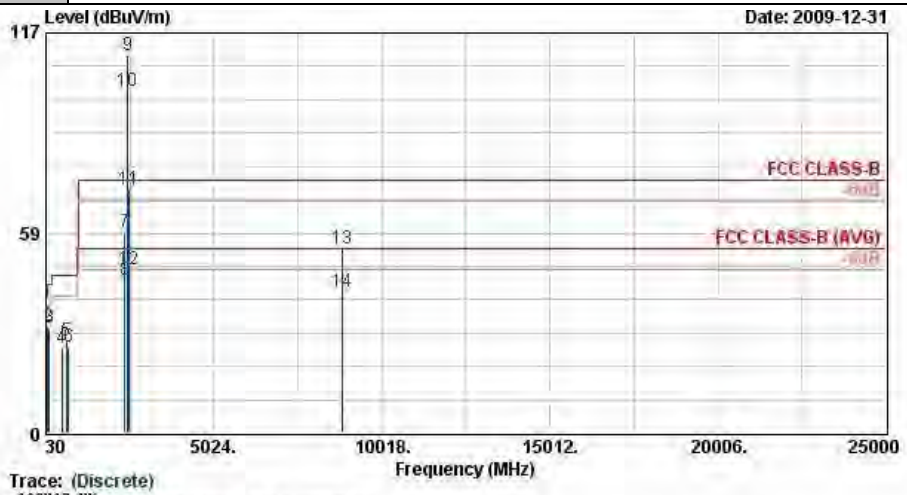
| Test Mode : | Mode 24 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.00 | 26.61 | -13.39 | 40.00 | 38.16 | 19.51 | 0.64 | 31.70 | 100 | 207 | Peak |
| 2 | | 101.01 | 24.78 | -18.72 | 43.50 | 44.88 | 10.43 | 1.17 | 31.70 | --- | --- | Peak |
| 3 | | 125.85 | 26.84 | -16.66 | 43.50 | 45.36 | 11.80 | 1.35 | 31.67 | --- | --- | Peak |
| 4 | | 374.20 | 21.16 | -24.84 | 46.00 | 34.50 | 15.44 | 2.47 | 31.25 | --- | --- | Peak |
| 5 | | 500.20 | 25.36 | -20.64 | 46.00 | 35.34 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 6 | | 624.10 | 27.77 | -18.23 | 46.00 | 35.18 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 7 | | 2390.00 | 57.41 | -16.59 | 74.00 | 53.98 | 32.13 | 5.46 | 34.16 | 163 | 56 | Peak |
| 8 | | 2390.00 | 45.99 | -8.01 | 54.00 | 42.56 | 32.13 | 5.46 | 34.16 | 163 | 56 | Average |
| 9 | X | 2462.00 | 111.29 | | | 107.83 | 32.24 | 5.40 | 34.18 | 163 | 56 | Peak |
| 10 | @ | 2462.00 | 101.26 | | | 97.80 | 32.24 | 5.40 | 34.18 | 163 | 56 | Average |
| 11 | ! | 2483.85 | 71.82 | -2.18 | 74.00 | 68.35 | 32.27 | 5.38 | 34.19 | 163 | 56 | Peak |
| 12 | ! | 2483.85 | 50.94 | -3.06 | 54.00 | 47.47 | 32.27 | 5.38 | 34.19 | 163 | 56 | Average |
| 13 | | 8922.00 | 55.30 | -18.70 | 74.00 | 43.92 | 36.25 | 10.31 | 35.19 | 100 | 151 | Peak |
| 14 | | 8922.00 | 41.25 | -12.75 | 54.00 | 29.87 | 36.25 | 10.31 | 35.19 | 100 | 151 | Average |

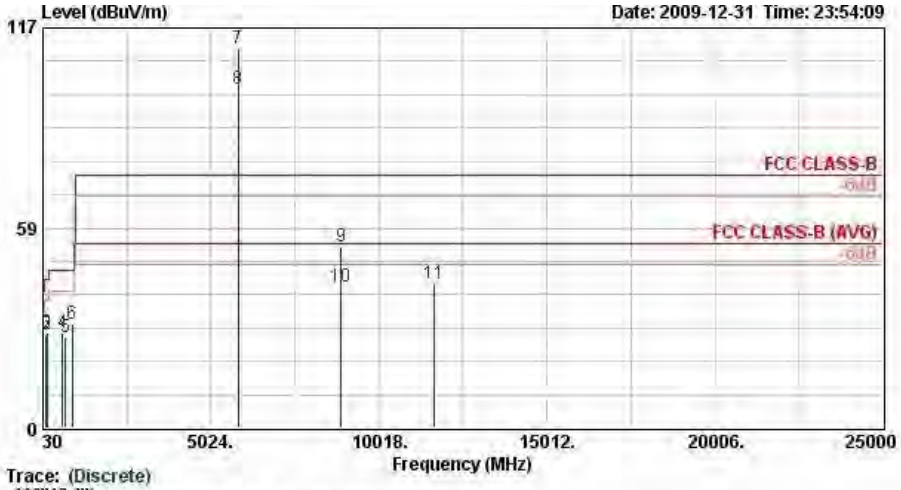
| Test Mode : | Mode 24 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 42.69 | 31.99 | -8.01 | 40.00 | 50.79 | 12.18 | 0.72 | 31.70 | 100 | 213 | Peak |
| 2 | 92.37 | 31.53 | -11.97 | 43.50 | 52.94 | 9.17 | 1.12 | 31.70 | --- | --- | Peak |
| 3 | 119.10 | 30.80 | -12.70 | 43.50 | 49.07 | 12.14 | 1.27 | 31.68 | --- | --- | Peak |
| 4 | 500.20 | 24.58 | -21.42 | 46.00 | 34.56 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | 629.70 | 26.85 | -19.15 | 46.00 | 34.18 | 20.29 | 3.34 | 30.97 | --- | --- | Peak |
| 6 | 691.30 | 25.21 | -20.79 | 46.00 | 31.82 | 20.77 | 3.53 | 30.91 | --- | --- | Peak |
| 7 | 2382.00 | 58.62 | -15.38 | 74.00 | 55.19 | 32.11 | 5.47 | 34.15 | 100 | 350 | Peak |
| 8 | 2382.00 | 44.88 | -9.12 | 54.00 | 41.45 | 32.11 | 5.47 | 34.15 | 100 | 350 | Average |
| 9 X | 2462.00 | 110.41 | | | 106.95 | 32.24 | 5.40 | 34.18 | 100 | 350 | Peak |
| 10 X | 2462.00 | 99.89 | | | 96.43 | 32.24 | 5.40 | 34.18 | 100 | 350 | Average |
| 11 ! | 2484.61 | 71.27 | -2.73 | 74.00 | 67.80 | 32.27 | 5.38 | 34.19 | 100 | 350 | Peak |
| 12 | 2484.61 | 47.63 | -6.37 | 54.00 | 44.16 | 32.27 | 5.38 | 34.19 | 100 | 350 | Average |
| 13 | 8829.00 | 54.08 | -19.92 | 74.00 | 42.76 | 36.20 | 10.29 | 35.17 | 100 | 254 | Peak |
| 14 | 8829.00 | 41.43 | -12.57 | 54.00 | 30.11 | 36.20 | 10.29 | 35.17 | 100 | 254 | Average |

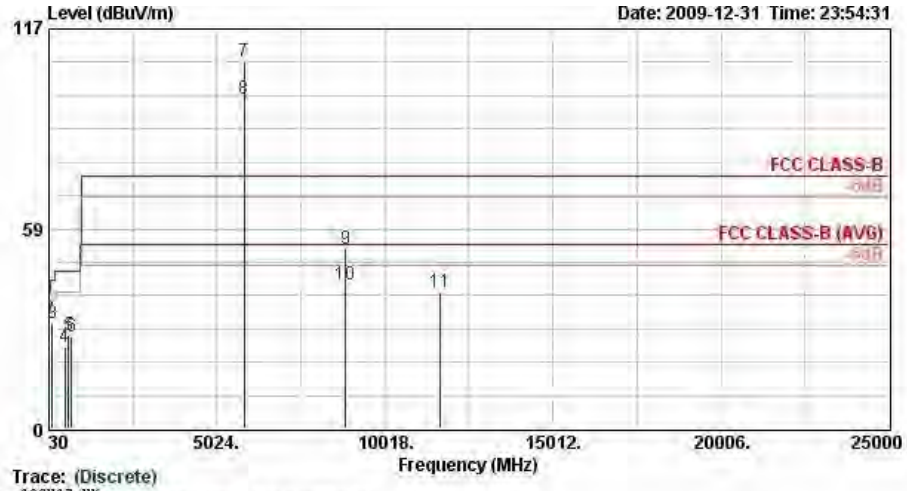
| Test Mode : | Mode 25 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 44.58 | 24.28 | -15.72 | 40.00 | 44.34 | 10.92 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | | 124.77 | 27.27 | -16.23 | 43.50 | 45.79 | 11.81 | 1.35 | 31.67 | --- | --- | Peak |
| 3 | | 152.85 | 27.95 | -15.55 | 43.50 | 47.16 | 10.95 | 1.48 | 31.65 | --- | --- | Peak |
| 4 | | 624.10 | 27.91 | -18.09 | 46.00 | 35.32 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 5 | | 691.30 | 26.43 | -19.57 | 46.00 | 33.04 | 20.77 | 3.53 | 30.91 | --- | --- | Peak |
| 6 | | 903.40 | 30.53 | -15.47 | 46.00 | 33.83 | 23.22 | 4.17 | 30.70 | 100 | 31 | Peak |
| 7 | X | 5825.00 | 110.95 | | | 101.89 | 35.16 | 8.43 | 34.53 | 138 | 327 | Peak |
| 8 | @ | 5825.00 | 99.15 | | | 90.09 | 35.16 | 8.43 | 34.53 | 138 | 327 | Average |
| 9 | | 8894.00 | 53.01 | -20.99 | 74.00 | 41.66 | 36.23 | 10.30 | 35.18 | 100 | 247 | Peak |
| 10 | | 8894.00 | 41.11 | -12.89 | 54.00 | 29.76 | 36.23 | 10.30 | 35.18 | 100 | 247 | Average |
| 11 | | 11650.00 | 42.11 | -31.89 | 74.00 | 76.11 | -11.10 | 11.76 | 34.66 | 100 | 0 | Peak |

| Test Mode : | Mode 25 | Temperature : | 19~20°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 48~49% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | #7 and #8 are Fundamental Signals which can be ignored. | | |




Site : 03CH07-HY
Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
Project : FR 9D2415

| | | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | | 30.00 | 33.93 | -6.07 | 40.00 | 45.48 | 19.51 | 0.64 | 31.70 | 100 | 162 | Peak |
| 2 | | 43.50 | 32.19 | -7.81 | 40.00 | 51.62 | 11.55 | 0.72 | 31.70 | --- | --- | Peak |
| 3 | | 122.61 | 30.68 | -12.82 | 43.50 | 48.98 | 12.06 | 1.31 | 31.68 | --- | --- | Peak |
| 4 | | 500.20 | 24.09 | -21.91 | 46.00 | 34.07 | 18.18 | 2.94 | 31.10 | --- | --- | Peak |
| 5 | | 624.10 | 27.46 | -18.54 | 46.00 | 34.86 | 20.25 | 3.33 | 30.98 | --- | --- | Peak |
| 6 | | 693.40 | 26.77 | -19.23 | 46.00 | 33.36 | 20.79 | 3.53 | 30.91 | --- | --- | Peak |
| 7 | X | 5825.00 | 107.47 | | | 98.42 | 35.16 | 8.43 | 34.53 | 100 | 32 | Peak |
| 8 | @ | 5825.00 | 96.57 | | | 87.51 | 35.16 | 8.43 | 34.53 | 100 | 32 | Average |
| 9 | | 8846.00 | 52.61 | -21.39 | 74.00 | 41.28 | 36.21 | 10.29 | 35.17 | 100 | 137 | Peak |
| 10 | | 8846.00 | 42.07 | -11.93 | 54.00 | 30.74 | 36.21 | 10.29 | 35.17 | 100 | 137 | Average |
| 11 | | 11650.00 | 40.14 | -33.86 | 74.00 | 74.19 | -11.14 | 11.74 | 34.65 | 100 | 0 | Peak |

## 3.4 Antenna Requirements

### 3.4.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

### 3.4.2 Antenna Connected Construction

The antennas type used in this product is Panel Antenna without connector and it is considered to meet antenna requirement.

### 3.4.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

# 4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|
| EMI Test Receive | R&S | ESCS 30 | 100356 | 9KHz – 2.75GHz | Aug. 05, 2009 | Aug. 04, 2010 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100081 | 9kHz~30MHz | Nov. 30, 2009 | Nov. 29, 2010 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100080 | 9kHz~30MHz | Nov. 23, 2009 | Nov. 22, 2010 | Conduction (CO05-HY) |
| AC Power Source | APC | APC-1000W | N/A | N/A | N/A | N/A | Conduction (CO05-HY) |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2726 | 30MHz ~ 1GHz | Oct. 31, 2009 | Oct. 30, 2010 | Radiation (03CH07-HY) |
| Spectrum Analyzer | R&S | FSP | 101067 | 9KHz ~ 30GHz | Dec. 04, 2009 | Dec. 03, 2010 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Aug. 20, 2009 | Aug. 19, 2010 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 15GHz- 40GHz | Oct. 14, 2009 | Oct. 13, 2010 | Radiation (03CH07-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A02362 | 1GHz~ 26.5GHz | Dec.09,2009 | Dec. 08, 2010 | Radiation (03CH07-HY) |
| Pre Amplifier | COM-POWER | PA-103A | 161241 | 10-1000MHz.32 dB.GAIN | Mar. 27, 2009 | Mar. 26, 2010 | Radiation (03CH07-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9 KHz~30 MHz | May 22, 2008 | May 21, 2010 | Radiation (03CH07-HY) |

# 5 Uncertainty of Evaluation

**Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)**

| Contribution | Uncertainty of $X_i$ | | $u(X_i)$ |
|---|---|---|---|
| | dB | Probability Distribution | |
| Receiver Reading | 0.10 | Normal (k=2) | 0.05 |
| Cable Loss | 0.10 | Normal (k=2) | 0.05 |
| AMN Insertion Loss | 2.50 | Rectangular | 0.63 |
| Receiver Specification | 1.50 | Rectangular | 0.43 |
| Site Imperfection | 1.39 | Rectangular | 0.80 |
| Mismatch | +0.34 / -0.35 | U-Shape | 0.24 |
| **Combined Standard Uncertainty Uc(y)** | **1.13** | | |
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.26** | | |

**Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)**

| Contribution | Uncertainty of $X_i$ | | $u(X_i)$ |
|---|---|---|---|
| | dB | Probability Distribution | |
| Receiver Reading | 0.41 | Normal (k=2) | 0.21 |
| Antenna Factor Calibration | 0.83 | Normal (k=2) | 0.42 |
| Cable Loss Calibration | 0.25 | Normal (k=2) | 0.13 |
| Pre-Amplifier Gain Calibration | 0.27 | Normal (k=2) | 0.14 |
| RCV/SPA Specification | 2.50 | Rectangular | 0.72 |
| Antenna Factor Interpolation for Frequency | 1.00 | Rectangular | 0.29 |
| Site Imperfection | 1.43 | Rectangular | 0.83 |
| Mismatch | +0.39 / -0.41 | U-Shape | 0.28 |
| **Combined Standard Uncertainty Uc(y)** | **1.27** | | |
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.54** | | |

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

| Contribution | Uncertainty of $X_i$ | | $u(X_i)$ | $C_i$ | $C_i * u(X_i)$ |
|---|---|---|---|---|---|
| | dB | Probability Distribution | | | |
| Receiver Reading | ±0.10 | Normal (k=2) | 0.10 | 1 | 0.10 |
| Antenna Factor Calibration | ±1.70 | Normal (k=2) | 0.85 | 1 | 0.85 |
| Cable Loss Calibration | ±0.50 | Normal (k=2) | 0.25 | 1 | 0.25 |
| Receiver Correction | ±2.00 | Rectangular | 1.15 | 1 | 1.15 |
| Antenna Factor Directional | ±1.50 | Rectangular | 0.87 | 1 | 0.87 |
| Site Imperfection | ±2.80 | Triangular | 1.14 | 1 | 1.14 |
| Mismatch<br>Receiver VSWR Γ1 = 0.197<br>Antenna VSWR Γ2 = 0.194<br>Uncertainty = 20Log(1-Γ1*Γ2) | +0.34 / -0.35 | U-Shape | 0.244 | 1 | 0.244 |
| **Combined Standard Uncertainty Uc(y)** | **2.36** | | | | |
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **4.72** | | | | |

# 6 Certification of TAF Accreditation

Certificate No. : L1190-090417

財團法人全國認證基金會
Taiwan Accreditation Foundation

## Certificate of Accreditation

This is to certify that

**Sporton International Inc.**
**EMC & Wireless Communications Laboratory**
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

**is accredited in respect of laboratory**

| | | |
|---|---|---|
| **Accreditation Criteria** | : | ISO/IEC 17025:2005 |
| **Accreditation Number** | : | 1190 |
| **Originally Accredited** | : | December 15, 2003 |
| **Effective Period** | : | January 10, 2007 to January 09, 2010 |
| **Accredited Scope** | : | Testing Field, see described in the Appendix |
| **Specific Accreditation Program** | : | Accreditation Program for Designated Testing Laboratory for Commodities Inspection<br>Accreditation Program for Telecommunication Equipment Testing Laboratory<br>Accreditation Program for BSMI Mutual Recognition Arrangment with Foreign Authorities |

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : April 17, 2009

P1, total 20 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix

# Appendix A. Photographs of EUT

Please refer to Sporton report number EP9D2415 as below.

# Appendix C. Product Equality Declaration

## Meru Networks Inc.

894 Ross Drive Sunnyvale, CA 94089 USA
Tel: 408 431 6032 ; Fax: 408 215 5301

Federal Communications Commission
Authorization and Evaluation Division
1435 Oakland Mills Road
Columbia, MD 21046

SUBJECT: Class II Permissive Change for FCC ID: RE7-AP300

The product, Multi Radio 802.11a/b/g/n Wireless LAN Access Point, has been granted by FCC dated 10/15/2007, FCC ID: RE7-AP300. The intension of this application is to apply for Class II Permissive Change for the modification of antenna type. Except the modification above, the other portions are remained the same as previous version.

**Contact Person:** Srinivas Sivaprakasam
**Company:** Meru Networks Inc.
**TEL:** 408 431 6032
**FAX:** 408 215 5301
**E-mail:** ssrinivas@merunetworks.com

# Appendix D. Original Report

Please refer to Sporton Report Number FR791302A as below.