

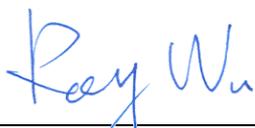
FCC RF Test Report

APPLICANT : Hewlett-Packard Company
EQUIPMENT : SmartBook
BRAND NAME : HP
MODEL NAME : HSTNH-F23C
MARKETING NAME : Compaq AirLife 100
FCC ID : B94HHF23C
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : Digital Spread Spectrum (DSS)

The product was received on Nov. 12, 2009 and completely tested on Jan. 05, 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



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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**SUMMARY OF TEST RESULT**

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|----------------|-----------------------|-----------|-------------------------------|----------------------------|--------|--|
| 3.1 | 15.247(a)(1) | A8.4(2) | Number of Channels | ≥ 15Chs | Pass | - |
| 3.2 | 15.247(a)(1) | A8.1(a) | 20dB Bandwidth | NA | Pass | - |
| 3.3 | 15.247(a)(1) | A8.1(b) | Channel Separation | ≥ 2/3 of 20dB BW | Pass | - |
| 3.4 | 15.247(a)(1) | A8.1(d) | Dwell Time of Each Channel | ≤ 0.4sec in 31.6sec period | Pass | - |
| 3.5 | 15.247(b)(1) | A8.1(b) | Peak Output Power | ≤ 1W | Pass | - |
| 3.6 | 15.247(d) | A8.5 | Frequency Band Edges | ≤ 20dBc | Pass | - |
| 3.7 | 15.247(d) | A8.5 | Spurious Emission | < 20 dBc | Pass | - |
| 3.8 | 15.207 | Gen 7.2.2 | AC Conducted Emission | 15.207(a) | Pass | Under limit 6.1 dB at 0.326 MHz |
| 3.9 | 15.247(d) | A8.5 | Transmitter Radiated Emission | 15.209(a) & 15.247(d) | Pass | Under limit 7.67 dB at 2484.69 MHz |
| 3.10 | 15.203 & 15.247(b) | A8.4 | Antenna Requirement | N/A | Pass | - |



1 General Description

1.1 Applicant

Hewlett-Packard Company
10955 Tantau Ave., CupertinoCA, 95014-0770, USA

1.2 Manufacturer

FOXCONN Technology Group
4F., G5, No. 2, 2nd Donghuan Road, 10th Yousong Industrial District, Longhua, Baoan, Shenzhen City, Guangdong Province, China 518109

1.3 Feature of Equipment Under Test

| Product Feature & Specification | |
|-----------------------------------|--|
| Equipment | SmartBook |
| Brand Name | HP |
| Model Name | HSTNH-F23C |
| Marketing Name | Compaq AirLife 100 |
| FCC ID | B94HHF23C |
| Tx/Rx Frequency Range | 2400 MHz ~ 2483.5 MHz |
| Number of Channels | 79 |
| Carrier Frequency of Each Channel | 2402+n*1 MHz; n=0~78 |
| Channel Spacing | 1 MHz |
| Maximum Output Power to Antenna | Bluetooth (1Mbps) : 0.0 dBm (1.0 mW) Bluetooth EDR (2Mbps) : 1.98 dBm (1.58 mW) Bluetooth EDR (3Mbps) : 2.28 dBm (1.69 mW) |
| Antenna Type | PIFA Antenna with gain -2.3 dBi |
| HW Version | EVT2.1 |
| SW Version | 001.053b |
| Type of Modulation | Bluetooth (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK |
| 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 Spread Spectrum (DSS).

List of Accessory:

| Specification of Accessory | | |
|----------------------------|---------------------------|--|
| AC Adapter | Brand Name | Delta |
| | Model Name | EADP-15ZB B |
| | Power Rating | I/P:100-240Vac, 50-60Hz, 600mA; O/P: 9Vdc, 1670mA |
| | DC Power Cord Type | 2.0 meter shielded cable without ferrite core |
| Battery | Brand Name | Dynapack |
| | Model Name | HSTNH-F23C-S |
| | Power Rating | 3.7Vdc, 28Wh |
| | Type | Li-ion |
| USB Cable | Brand Name | Nwing |
| | Model Name | CUNC005B-T63W-EF-G |
| | Signal Line Type | 1.1 meter shielded cable without ferrite core |
| LCD Panel | Brand Name | CMO |
| | Model Name | N101L6-L01 |

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 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978 | | |
| Test Site No. | Sporton Site No. | | FCC/IC Registration No. |
| | CO05-HY | 03CH07-HY | 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 Public Notice DA 00-705
- ♦ 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. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | GPS Base Station | SPIRENT | GSS6560 | FCC DoC | Shielded, 1.6 m | Unshielded, 1.8 m |
| 3. | Bluetooth Base Station | R&S | CBT32 | N/A | N/A | Unshielded, 1.8 m |
| 4. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 5. | Notebook | DELL | Vostro 1510 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 6. | LCD Monitor | Lenovo | 6135-AB1 | FCC DoC | Shielded, 1.6 m | Unshielded, 1.8 m |
| 7. | Bluetooth Earphone | Nokia | BH-102 | PYAHS-107W | N/A | N/A |
| 8. | iPod | Apple | A1285 | FCC DoC | Shielded, 1.0 m | N/A |
| 9. | Earphone | Apple | A1285 | FCC DoC | Unshielded, 1.2 m | N/A |

2 Test Configuration of Equipment Under Test

2.1 RF Output Power

Preliminary tests were performed in different data rate and recorded the RF output power in the following table:

| Channel | Frequency | Bluetooth RF Output Power | | |
|---------|-----------|---------------------------|----------------|-----------------|
| | | Data Rate / Modulation | | |
| | | GFSK | π /4-DQPSK | 8-DPSK |
| | | 1Mbps | 2Mbps | 3Mbps |
| Ch00 | 2402MHz | -0.31 dBm | 1.63 dBm | 1.96 dBm |
| Ch39 | 2441MHz | -0.22 dBm | 1.77 dBm | 2.10 dBm |
| Ch78 | 2480MHz | 0.00 dBm | 1.98 dBm | 2.28 dBm |

Remark:

1. The data rate was set in 3Mbps for all the test items due to the highest RF output power.
2. The EUT is programmed to transmit signals continuously for all testing.

2.2 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: conduction (150 kHz to 30 MHz), radiation (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

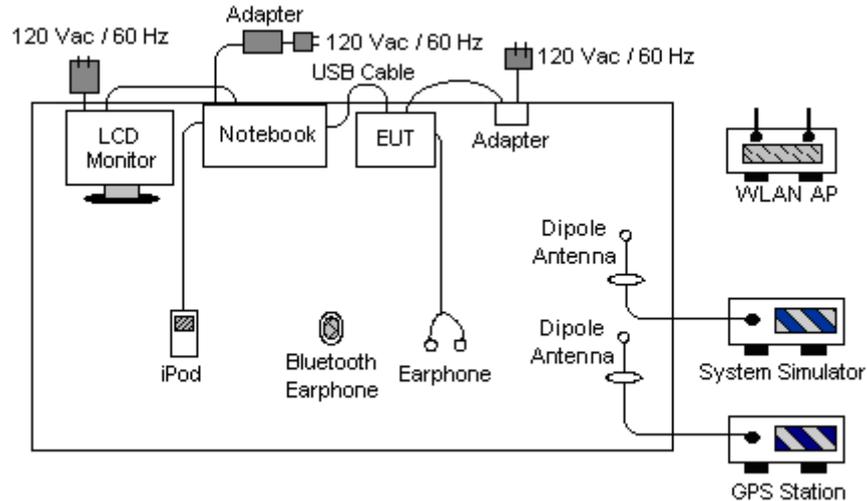
Pre-scanned tests were conducted to determine the final configuration from all possible combinations.

The following tables are showing the test modes as the worst cases and recorded in this report.

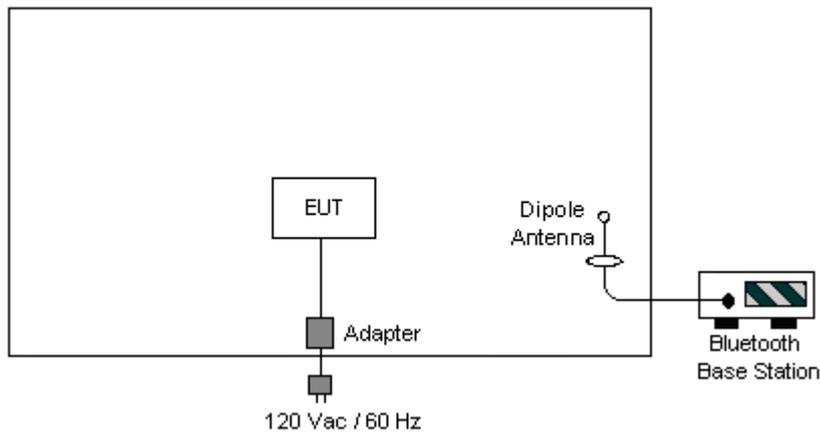
| Test Cases | | | |
|---|---|---|---|
| Test Item | Data Rate / Modulation | | |
| | Bluetooth 1Mbps GFSK | Bluetooth EDR 2Mbps π /4-DQPSK | Bluetooth EDR 3Mbps 8-DPSK |
| Conducted TCs | Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz | Mode 4: CH00_2402 MHz Mode 5: CH39_2441 MHz Mode 6: CH78_2480 MHz | Mode 7: CH00_2402 MHz Mode 8: CH39_2441 MHz Mode 9: CH78_2480 MHz |
| Radiated TCs | N/A | N/A | Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz |
| AC Conducted Emission | Mode 1 :GSM850 Idle + WLAN Link + Bluetooth Link + TC + Adapter | | |
| Remark: 1. TC stands for Test Configuration, and consists of earphone, USB cable, and GPS Rx. 2. For radiated TCs, the data rate was set in 3Mbps due to the highest RF output power; only the data of these modes was reported. | | | |

2.3 Connection Diagram of Test System

<Conducted Emission>



<Radiated Emission>



2.4 RF Utility

For Bluetooth function, the RF utility, "BTTest Enable" was installed in EUT which was programmed in order to make the EUT into the engineering modes to contact with BT base station for transmitting and receiving signals continuously.

3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

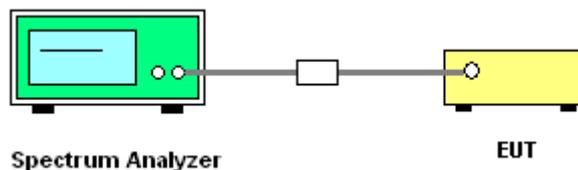
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. The modulation types of EUT are irrelevant to number of hopping channels deviation.
4. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:
Span = the frequency band of operation; $RBW \geq 1\%$ of the span; $VBW \geq RBW$; Sweep = auto;
Detector function = peak; Trace = max hold.
5. The number of hopping frequency used is defined as the device has the numbers of total channel.

3.1.4 Test Setup

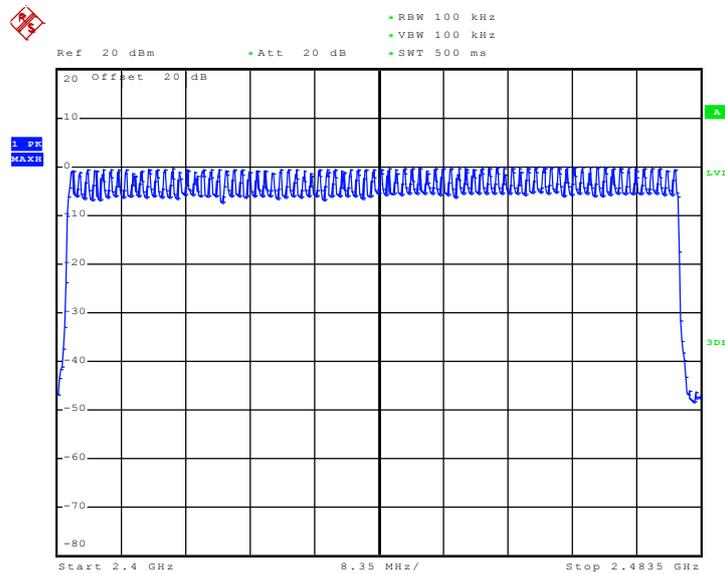




3.1.5 Test Result of Number of Hopping Frequency

| Test Mode : | Mode 7, 8, 9 | Temperature : | 25~27°C |
|---|--------------|---------------------|---------|
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% |
| Number of Hopping Channels (Channel) | | Limits (Channel) | |
| 79 | | > 15 | |
| | | Pass/Fail | |
| | | Pass | |

Number of Hopping Channel Plot on Channel 00 - 78



Date: 13.DEC.2009 16:30:08

3.2 20dB Bandwidth Measurement

3.2.1 Limit of 20dB Bandwidth

N/A

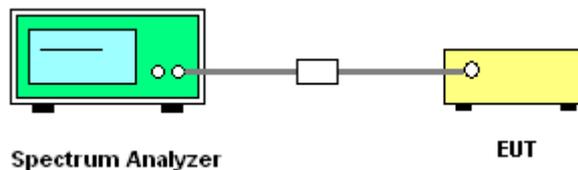
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. The EUT should be transmitting at its maximum data rate as the worst cases.
4. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel;
RBW \geq 1% of the 20 dB bandwidth; VBW \geq RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
5. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

3.2.4 Test Setup



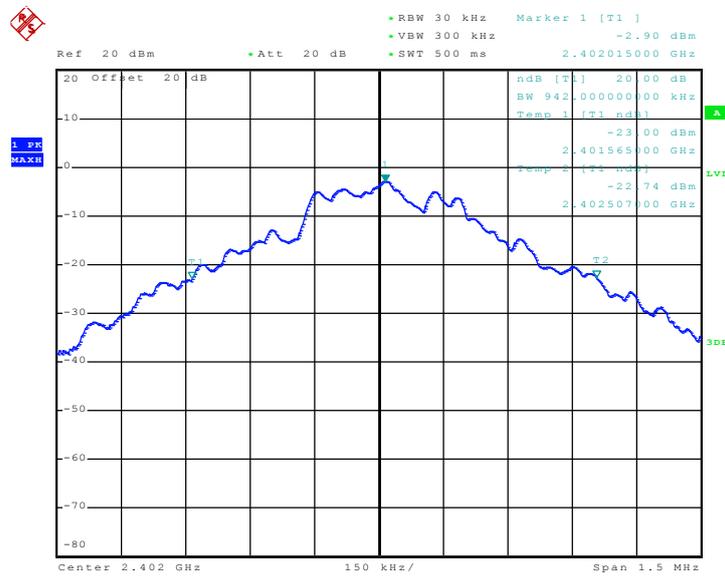


3.2.5 Test Result of 20dB Bandwidth

| | | | |
|-----------------|--------------|---------------------|---------|
| Test Mode : | Mode 1, 2, 3 | Temperature : | 25~27°C |
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% |

| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) |
|---------|-----------------|----------------------|
| 00 | 2402 | 0.942 |
| 39 | 2441 | 0.939 |
| 78 | 2480 | 0.942 |

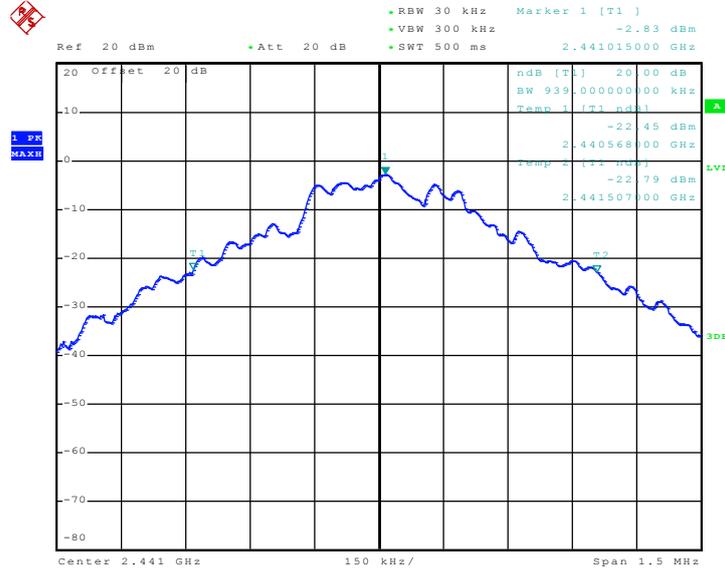
20 dB Bandwidth Plot on Channel 00



Date: 13.DEC.2009 15:38:38

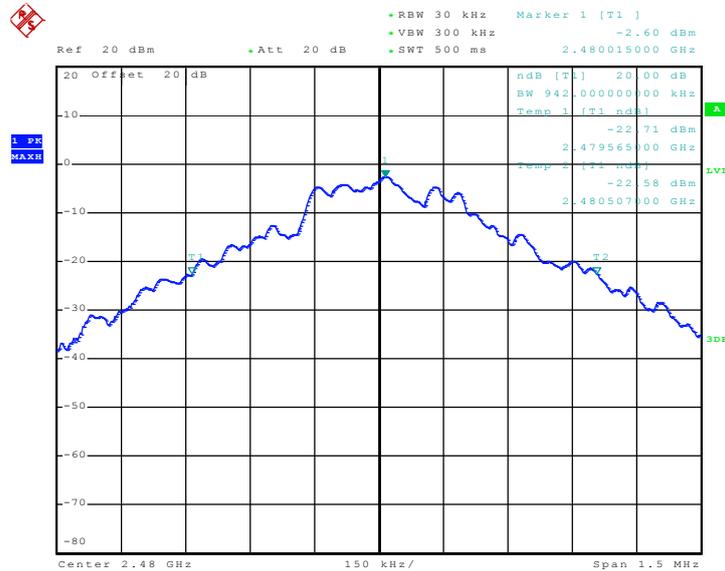


20 dB Bandwidth Plot on Channel 39



Date: 13.DEC.2009 15:38:54

20 dB Bandwidth Plot on Channel 78



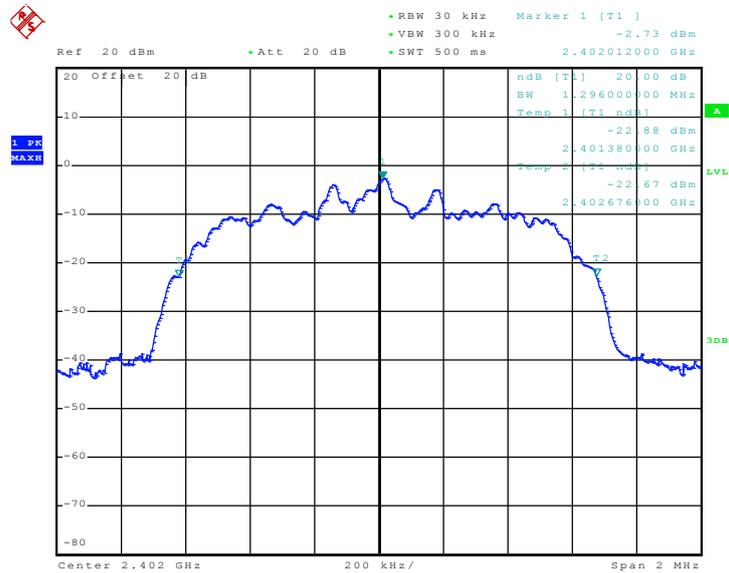
Date: 13.DEC.2009 15:39:18



| | | | |
|-----------------|--------------|---------------------|---------|
| Test Mode : | Mode 4, 5, 6 | Temperature : | 25~27°C |
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% |

| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) |
|---------|-----------------|----------------------|
| 00 | 2402 | 1.296 |
| 39 | 2441 | 1.300 |
| 78 | 2480 | 1.296 |

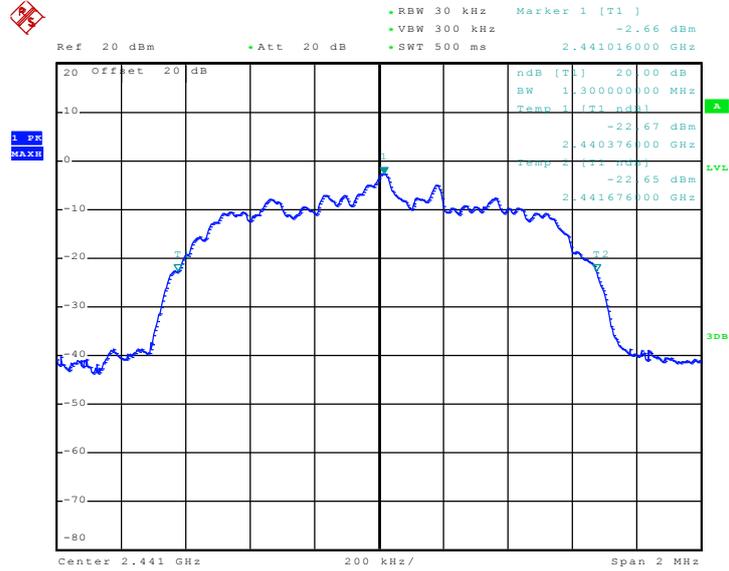
20 dB Bandwidth Plot on Channel 00



Date: 13.DEC.2009 15:39:47

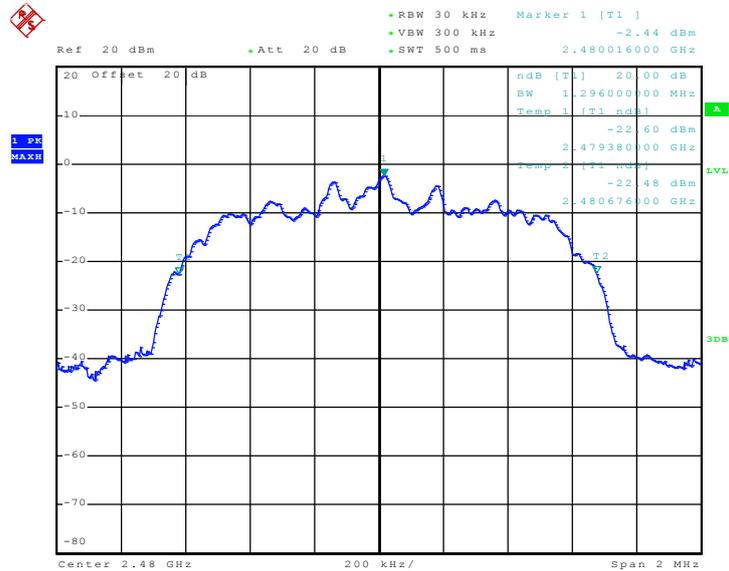


20 dB Bandwidth Plot on Channel 39



Date: 13.DEC.2009 15:40:06

20 dB Bandwidth Plot on Channel 78



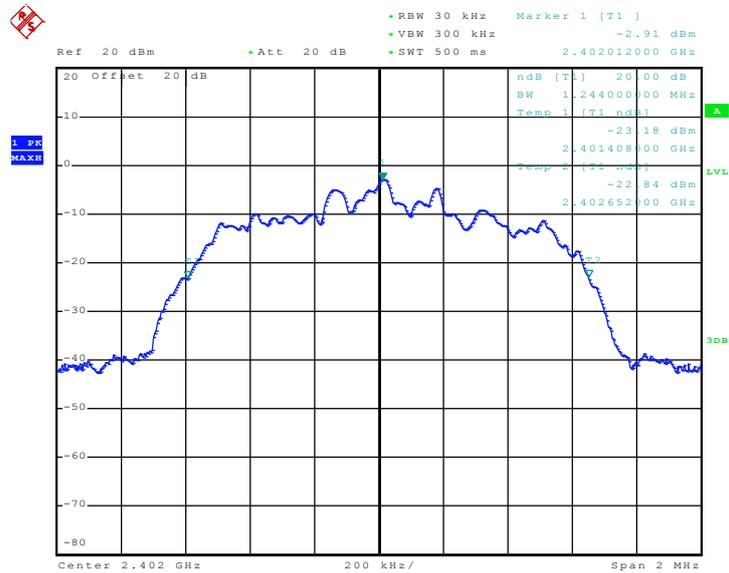
Date: 13.DEC.2009 15:40:22



| | | | |
|-----------------|--------------|---------------------|---------|
| Test Mode : | Mode 7, 8, 9 | Temperature : | 25~27°C |
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% |

| Channel | Frequency (MHz) | 20dB Bandwidth (MHz) |
|---------|-----------------|----------------------|
| 00 | 2402 | 1.244 |
| 39 | 2441 | 1.240 |
| 78 | 2480 | 1.244 |

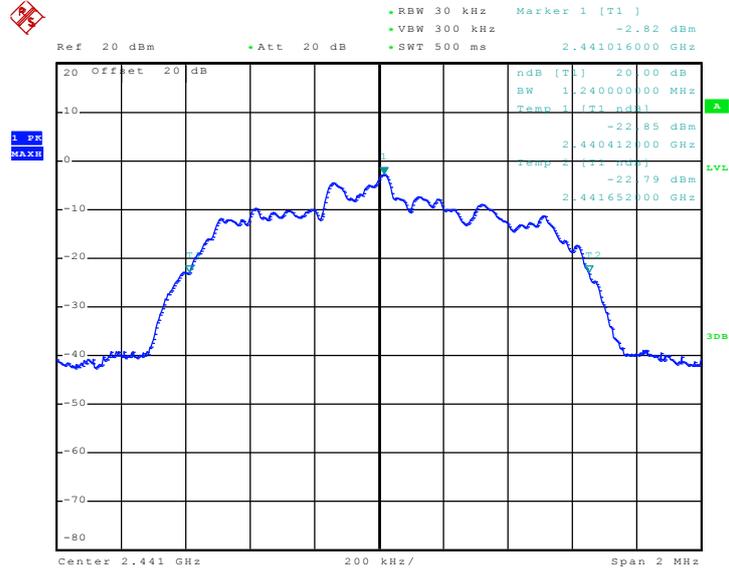
20 dB Bandwidth Plot on Channel 00



Date: 13.DEC.2009 15:40:43

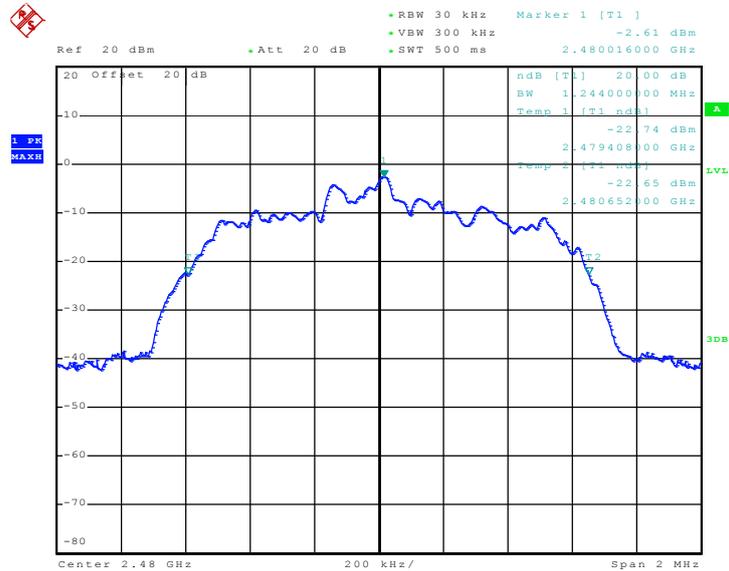


20 dB Bandwidth Plot on Channel 39



Date: 13.DEC.2009 15:41:02

20 dB Bandwidth Plot on Channel 78



Date: 13.DEC.2009 15:41:23

3.3 Hopping Channel Separation Measurement

3.3.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

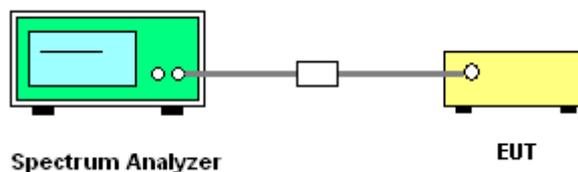
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. Please refer FCC Public Notice DA 00-705 Measurement Guidelines.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. The EUT should be transmitting at its maximum data rate as the worst cases.
4. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels; $RBW \geq 1\%$ of the span;
VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
5. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

3.3.4 Test Setup



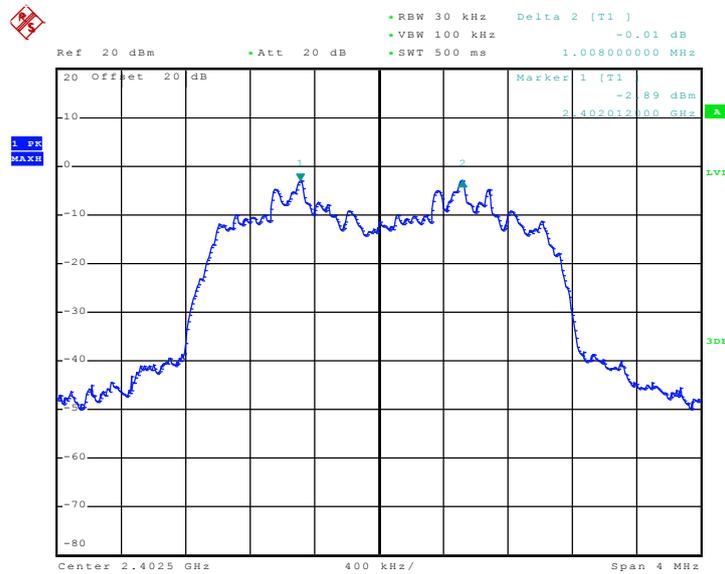


3.3.5 Test Result of Hopping Channel Separation

| | | | |
|-----------------|--------------|---------------------|---------|
| Test Mode : | Mode 7, 8, 9 | Temperature : | 25~27°C |
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% |

| Channel | Frequency (MHz) | Frequency Separation (MHz) | (2/3 of 20dB BW) Limits (MHz) | Pass/Fail |
|---------|-----------------|----------------------------|-------------------------------|-----------|
| 00 | 2402 | 1.008 | 0.829 | Pass |
| 39 | 2441 | 1.000 | 0.826 | Pass |
| 78 | 2480 | 1.000 | 0.829 | Pass |

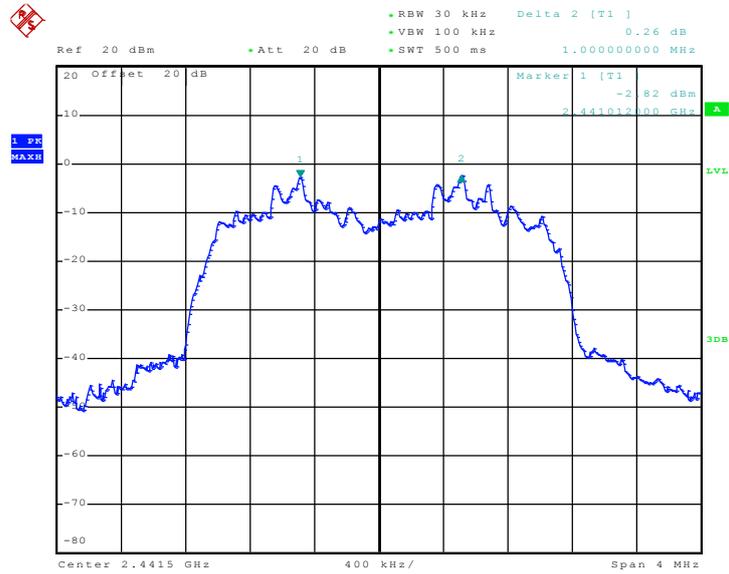
Channel Separation Plot on Channel 00 - 01



Date: 13.DEC.2009 15:55:02

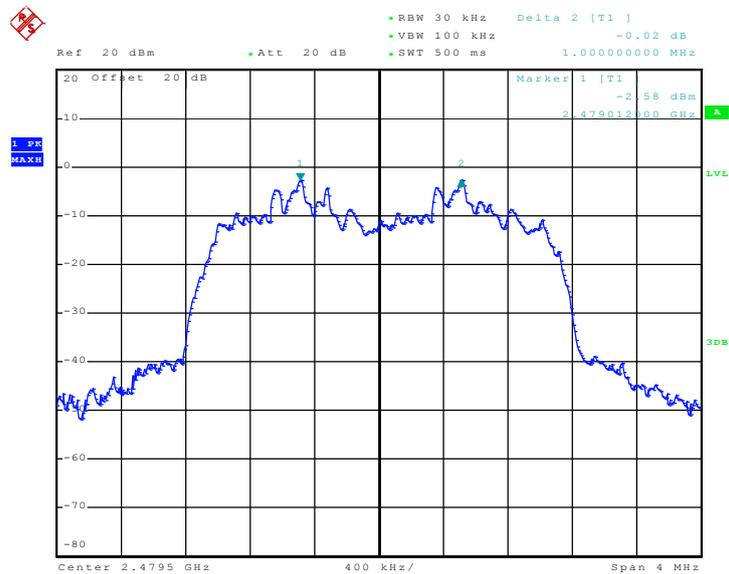


Channel Separation Plot on Channel 39 - 40



Date: 13.DEC.2009 15:57:11

Channel Separation Plot on Channel 77 - 78



Date: 13.DEC.2009 15:57:27

3.4 Dwell Time Measurement

3.4.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

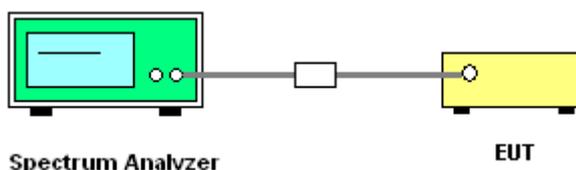
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. The EUT should be transmitting at its maximum data rate as the worst cases.
4. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
5. Use the marker-delta function to calculate the dwell time.

3.4.4 Test Setup



3.4.5 Test Result of Dwell Time

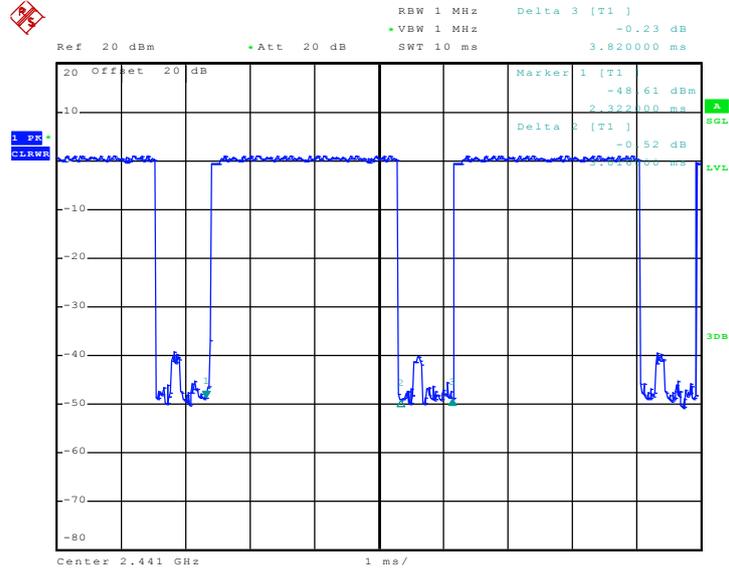
| Test Mode : | Mode 9 | Temperature : | 25~27°C | | |
|------------------------|-------------------------|------------------------------|------------------|--------------|-----------|
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% | | |
| Package Mode | Average Hopping Channel | Package Transfer Time (usec) | Dwell Time (sec) | Limits (sec) | Pass/Fail |
| 3DH5 | 2.70 | 3016.00 | 0.26 | 0.4 | Pass |

Remark:

1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
2. 79 channels come from the Hopping Channel number.
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)

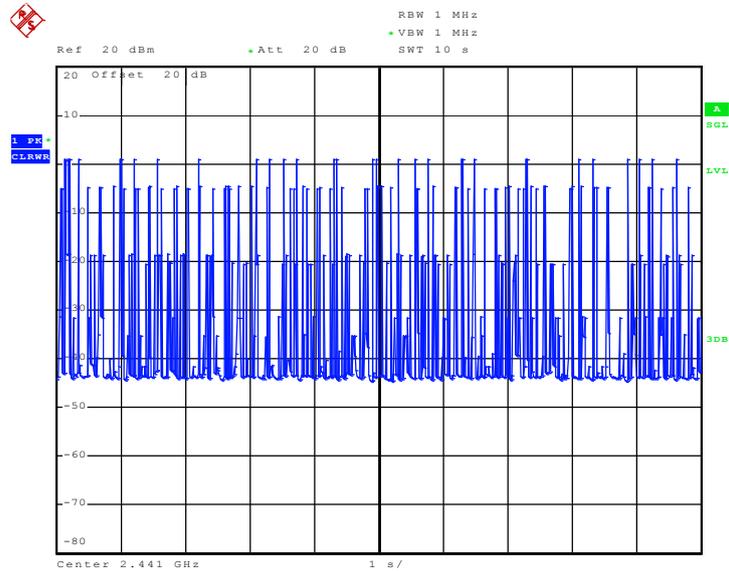


3DH5 Dwell Time (One Pulse) Plot on Channel 39



Date: 13.DEC.2009 16:08:46

3DH5 Dwell Time (Count Pulses) Plot on Channel 39



Date: 13.DEC.2009 16:12:47

3.5 Peak Output Power Measurement

3.5.1 Limit of Peak Output Power

Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1W (30 dBm).

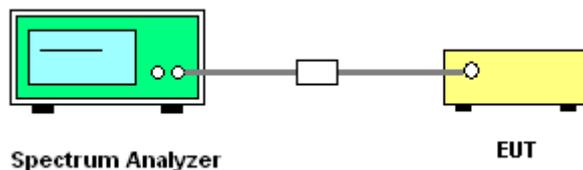
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. The testing follows FCC Public Notice DA 00-705 Measurement Guidelines.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.

3.5.4 Test Setup



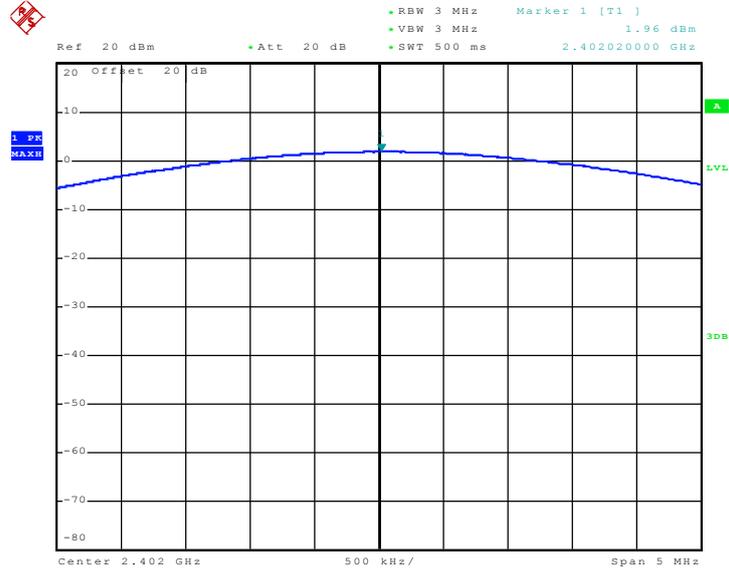
3.5.5 Test Result of Peak Output Power

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 7, 8, 9 | Temperature : | 25~27°C |
| Test Engineer : | Ken Hsu | Relative Humidity : | 52~55% |

| Channel | Frequency (MHz) | RF Power (dBm) | | |
|---------|-----------------|----------------|-------------------|-----------|
| | | 8-DPSK | Max. Limits (dBm) | Pass/Fail |
| | | 3 Mbps | | |
| 00 | 2402 | 1.96 | 30 | Pass |
| 39 | 2441 | 2.10 | 30 | Pass |
| 78 | 2480 | 2.28 | 30 | Pass |

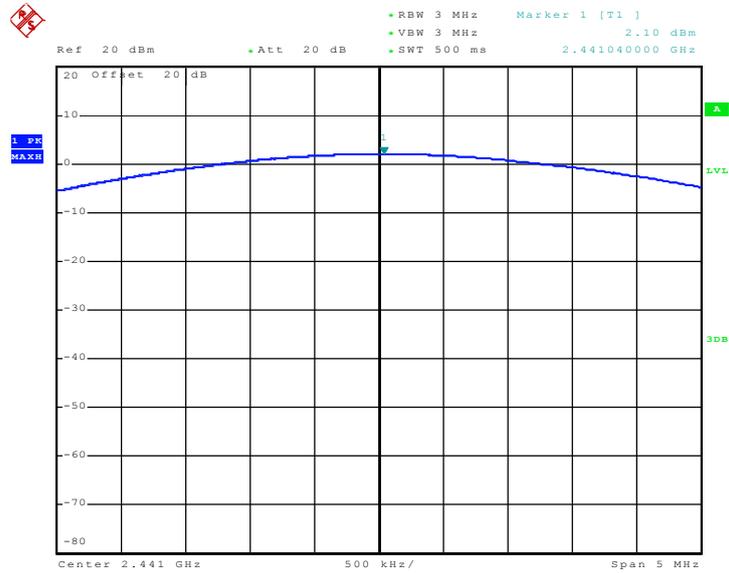


Peak Output Power Plot on Channel 00



Date: 13.DEC.2009 15:11:13

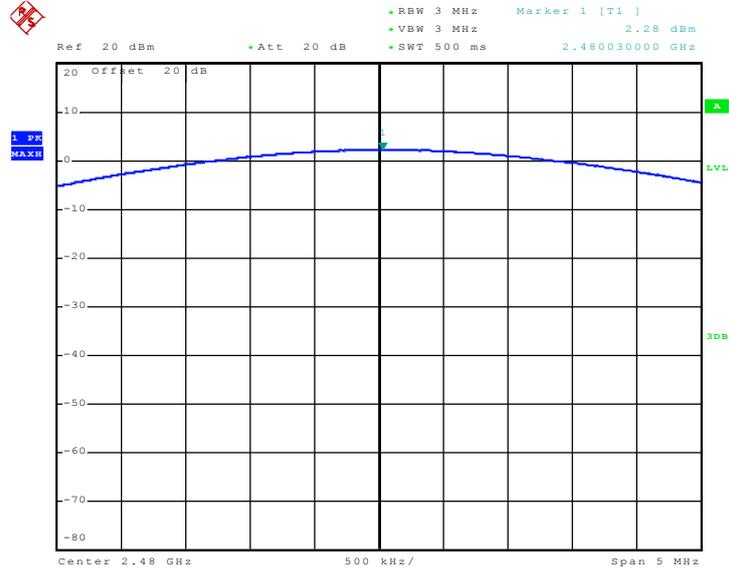
Peak Output Power Plot on Channel 39



Date: 13.DEC.2009 15:24:40



Peak Output Power Plot on Channel 78



Date: 13.DEC.2009 15:23:01



3.6 Band Edges Measurement

3.6.1 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. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

3.6.2 Measuring Instruments

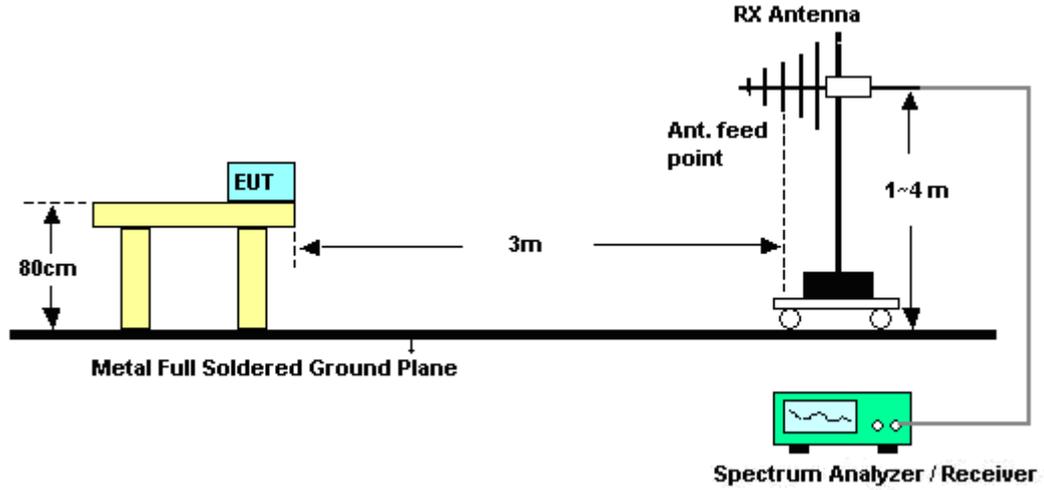
See list of measuring instruments of this test report.

3.6.3 Test Procedures

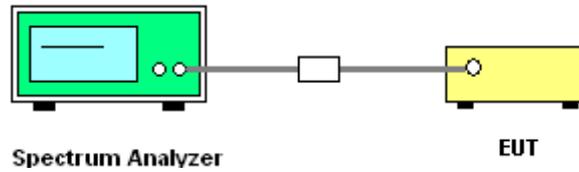
1. The testing follows the guidelines in ANSI C63.4-2003 and FCC Public Notice DA 00-705 Measurement Guidelines.
2. RF antenna conducted test: Set RBW = 300kHz, Video bandwidth (VBW) \geq RBW. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 300k Hz RBW. Note: If the device complies with the use of power option 2 the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Applies 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 = 1MHz, Sweep: Auto for Peak; set RBW = 1MHz, VBW = 10 Hz, Sweep: Auto for Average. 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. See FCC Section 15.35(b) and (c).
4. In case the emission is fail due to the used RBW / VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

3.6.4 Test Setup

<Radiated Band Edges>



<Conducted Band Edges>





3.6.5 Test Result of Radiated Band Edges

| | | | |
|----------------|--------|---------------------|------------|
| Test Mode : | Mode 1 | Temperature : | 25~26°C |
| Test Channel : | 00 | Relative Humidity : | 50~53% |
| | | Test Engineer : | Cona Huang |

| 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 |
| 2322.54 | 45.73 | -28.27 | 74 | 42.33 | 32.02 | 5.51 | 34.13 | 102 | 309 | Peak |
| 2322.54 | 32.88 | -21.12 | 54 | 29.48 | 32.02 | 5.51 | 34.13 | 102 | 309 | 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 |
| 2356.74 | 45.63 | -28.37 | 74 | 42.2 | 32.08 | 5.49 | 34.14 | 100 | 284 | Peak |
| 2356.74 | 32.6 | -21.4 | 54 | 29.17 | 32.08 | 5.49 | 34.14 | 100 | 284 | Average |



| | | | |
|----------------|--------|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| | | Test Engineer : | Cona Huang |

| 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 |
| 2484.69 | 66.33 | -7.67 | 74 | 62.87 | 32.27 | 5.38 | 34.19 | 100 | 300 | Peak |
| 2484.69 | 27.27 | -26.73 | 54 | 23.81 | 32.27 | 5.38 | 34.19 | 100 | 300 | Average |

Summary results of marker-delta method:

| Test mode | Maximum field strength of the fundamental emission (dBµV/m) | Delta Result (dB) | Average Result (dBµV/m) | Average Limit (dBµV/m) | Margin (dB) | Result |
|---------------------|---|-------------------------|-------------------------------|------------------------------|----------------|--------|
| Single Carrier Mode | 83.78 | 55.1 | 28.68 | 54 | -25.32 | Pass |
| Hopping Mode | 83.78 | 56.51 | 27.27 | 54 | -26.73 | Pass |

Note : Average result = Maximum field strength – Delta result

| 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 |
| 2484.04 | 60.41 | -13.59 | 74 | 56.95 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |
| 2484.04 | 27.7 | -26.30 | 54 | 24.24 | 32.27 | 5.38 | 34.19 | 100 | 280 | Average |

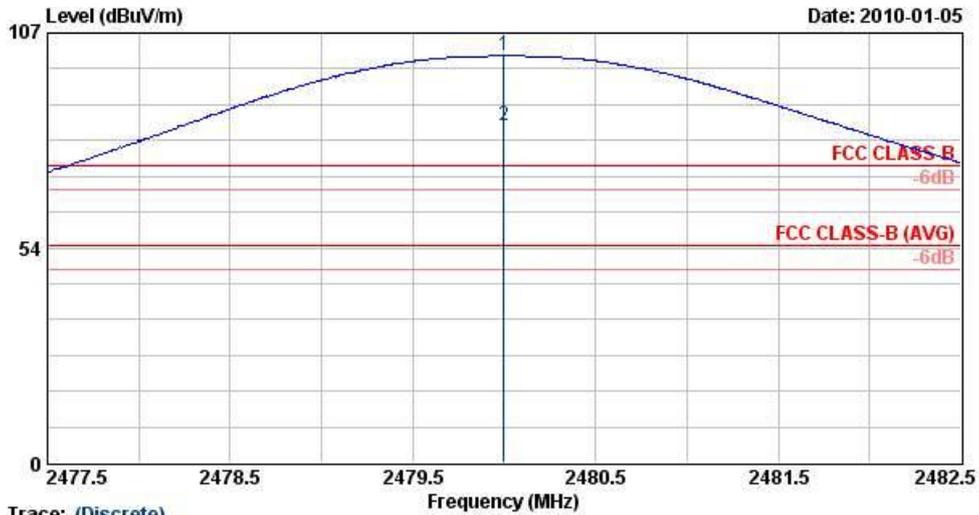
Summary results of marker-delta method:

| Test mode | Maximum field strength of the fundamental emission (dBµV/m) | Delta Result (dB) | Average Result (dBµV/m) | Average Limit (dBµV/m) | Margin (dB) | Result |
|---------------------|---|-------------------------|-------------------------------|------------------------------|----------------|--------|
| Single Carrier Mode | 80.48 | 54.02 | 26.46 | 54 | -27.54 | Pass |
| Hopping Mode | 80.48 | 52.78 | 27.70 | 54 | -26.30 | Pass |

Note : Average result = Maximum field strength – Delta result



| | | | |
|-----------------|------------|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Horizontal |



Trace: (Discrete)

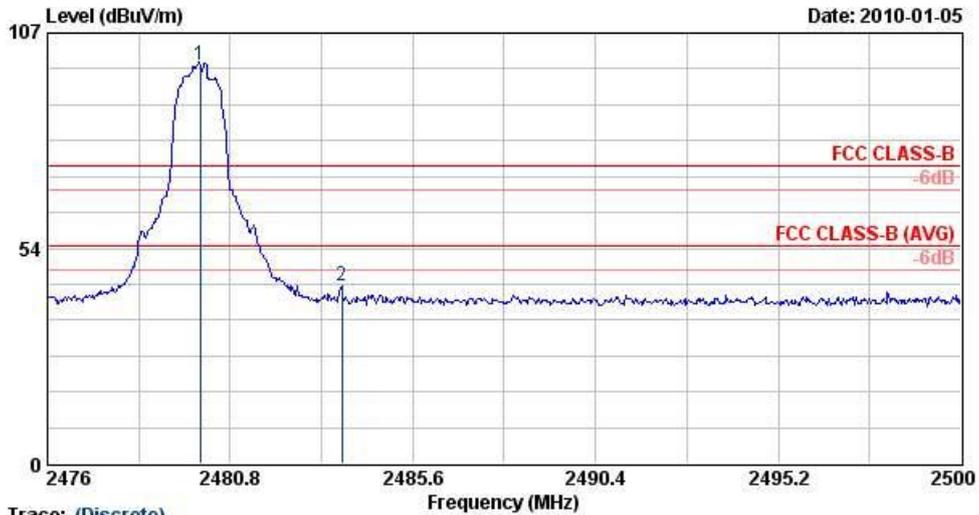
Site : 03CH07-HY
 Condition : FCC CLASS-B HF-ANT_090824 HORIZONTAL
 Project : FR 9N2101-01
 Mode : Mode 3

| | 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 @ | 2480.00 | 101.33 | 27.33 | 74.00 | 97.86 | 32.27 | 5.38 | 34.19 | 100 | 300 | Peak |
| 2 @ | 2480.00 | 83.78 | 29.78 | 54.00 | 80.31 | 32.27 | 5.38 | 34.19 | 100 | 300 | Average |

* Maximum field strength of the fundamental emission



| | | | |
|-----------------|------------|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Horizontal |



Trace: (Discrete)

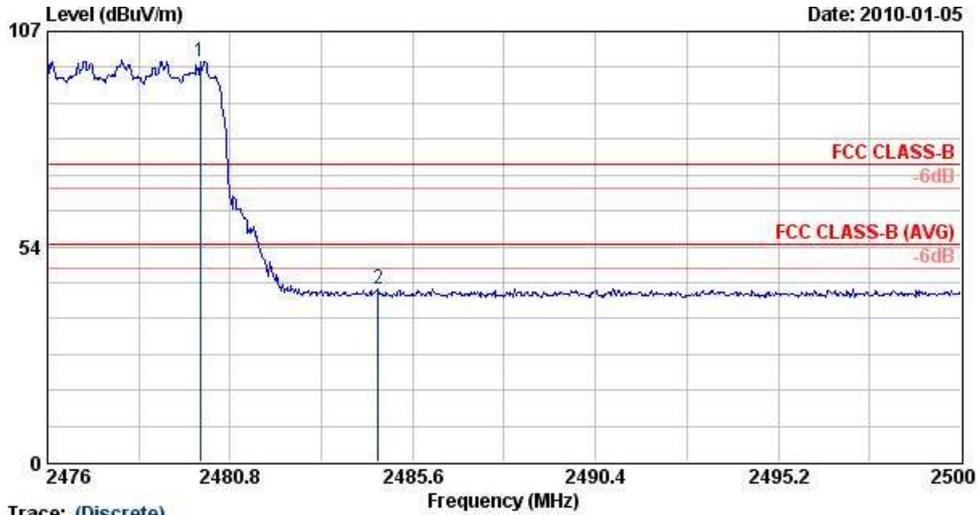
Site : 03CH07-HY
 Condition : FCC CLASS-B HF-ANT_090824 HORIZONTAL
 Project : FR 9N2101-01
 Mode : Mode 3

| | 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 @ | 2480.00 | 99.13 | 25.13 | 74.00 | 95.67 | 32.27 | 5.38 | 34.19 | 100 | 300 | Peak |
| 2 | 2483.73 | 44.03 | -29.97 | 74.00 | 40.56 | 32.27 | 5.38 | 34.19 | 100 | 300 | Peak |

* Marker-Delta Method (RBW/VBW=100KHz): 55.10 dB , single carrier Mode



| | | | |
|-----------------|------------|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Horizontal |



Trace: (Discrete)

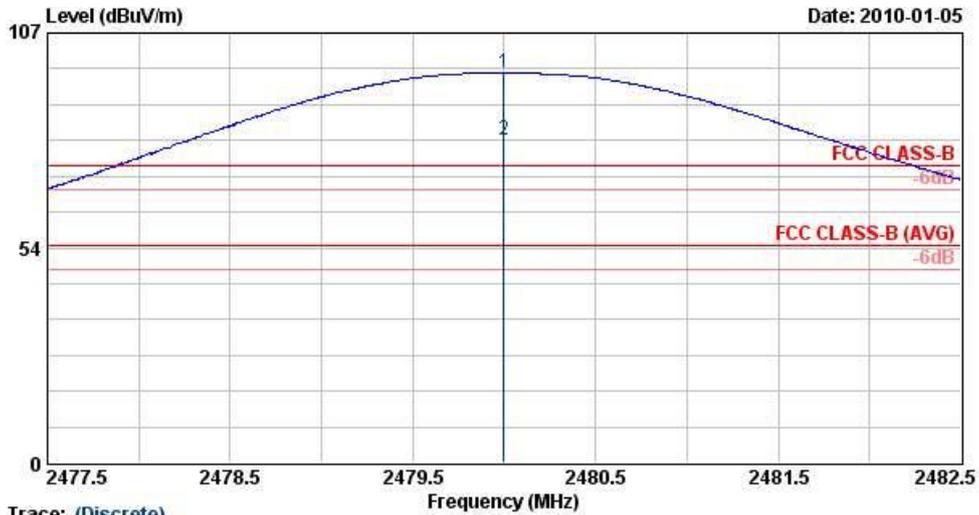
Site : 03CH07-HY
 Condition : FCC CLASS-B HF-ANT_000824 HORIZONTAL
 Project : FR 9N2101-01
 Mode : Mode 3

| | 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 @ | 2480.00 | 99.61 | 25.61 | 74.00 | 96.14 | 32.27 | 5.38 | 34.19 | --- | --- | Peak |
| 2 | 2484.69 | 43.10 | -30.90 | 74.00 | 39.63 | 32.27 | 5.38 | 34.19 | --- | --- | Peak |

* Marker-Delta Method (RBW/VBW=100KHz): 56.51 dB , Hopping Mode



| | | | |
|-----------------|------------|---------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Vertical |



Trace: (Discrete)

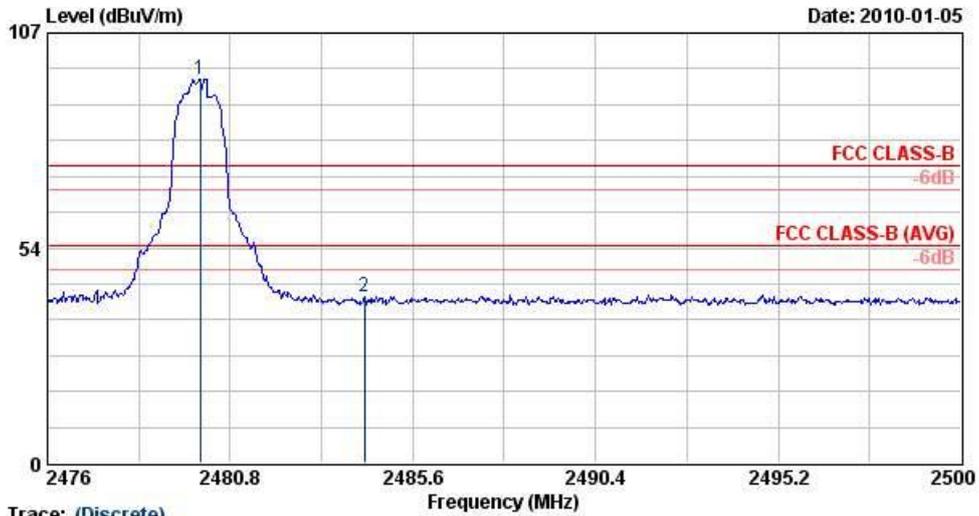
Site : 03CH07-HY
 Condition : FCC CLASS-B HF-ANT_090824 VERTICAL
 Project : FR 9N2101-01
 Mode : Mode 3

| | 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 @ | 2480.00 | 97.15 | 23.15 | 74.00 | 93.68 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |
| 2 @ | 2480.00 | 80.48 | 26.48 | 54.00 | 77.01 | 32.27 | 5.38 | 34.19 | 100 | 280 | Average |

* Maximum field strength of the fundamental emission



| | | | |
|-----------------|------------|---------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Vertical |



Trace: (Discrete)

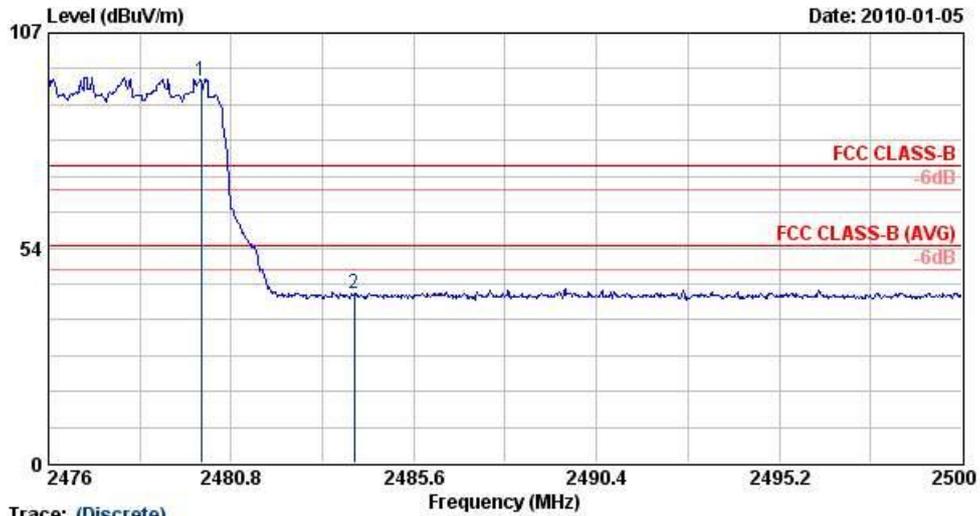
Site : D3CH07-HY
 Condition : FCC CLASS-B HF-ANT_090824 VERTICAL
 Project : FR 9N2101-01
 Mode : Mode 3

| | 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 @ | 2480.00 | 95.51 | 21.51 | 74.00 | 92.04 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |
| 2 | 2484.33 | 41.49 | -32.51 | 74.00 | 38.03 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |

* Marker-Delta Method (RBW/VBW=100KHz): 54.02 dB , single carrier Mode



| | | | |
|-----------------|------------|---------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Vertical |



Trace: (Discrete)

Site : D3CH07-HY
 Condition : FCC CLASS-B HF-ANT_090824 VERTICAL
 Project : FR 9N2101-01
 Mode : Mode 3

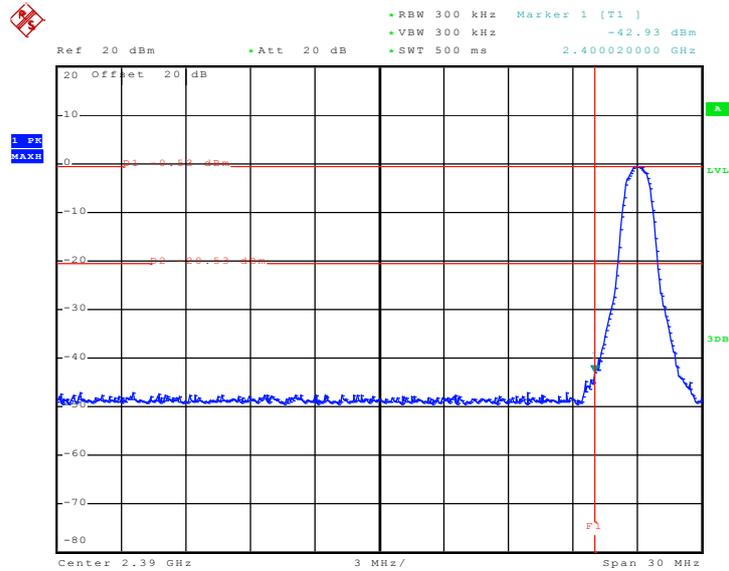
| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|-----|---------|--------|------------|------------|------------|----------------|------------|---------------|---------|-----------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 @ | 2480.00 | 95.08 | 21.08 | 74.00 | 91.61 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |
| 2 | 2484.04 | 42.30 | -31.70 | 74.00 | 38.84 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |

* Marker-Delta Method (RBW/VBW=100KHz): 52.78 dB , Hopping Mode

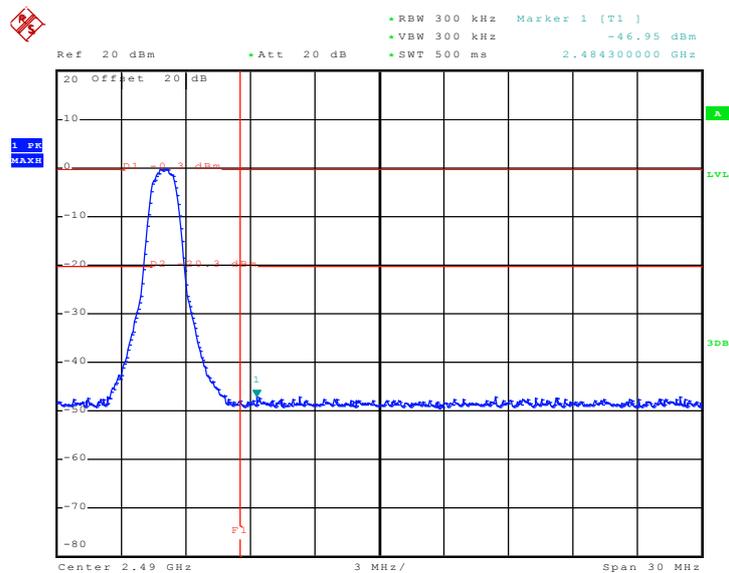
3.6.6 Test Result of Conducted Band Edges

| | | | |
|----------------|--------------|---------------------|---------|
| Test Mode : | Mode 7 and 9 | Temperature : | 25~27°C |
| Test Channel : | 00 and 78 | Relative Humidity : | 52~55% |
| | | Test Engineer : | Ken Hsu |

Low Band Edge Plot on Channel 00



High Band Edge Plot on Channel 78



3.7 Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band.

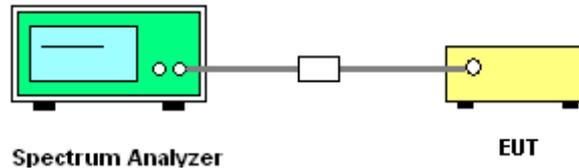
3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set RBW = 100 kHz, Video bandwidth (VBW) \geq RBW, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

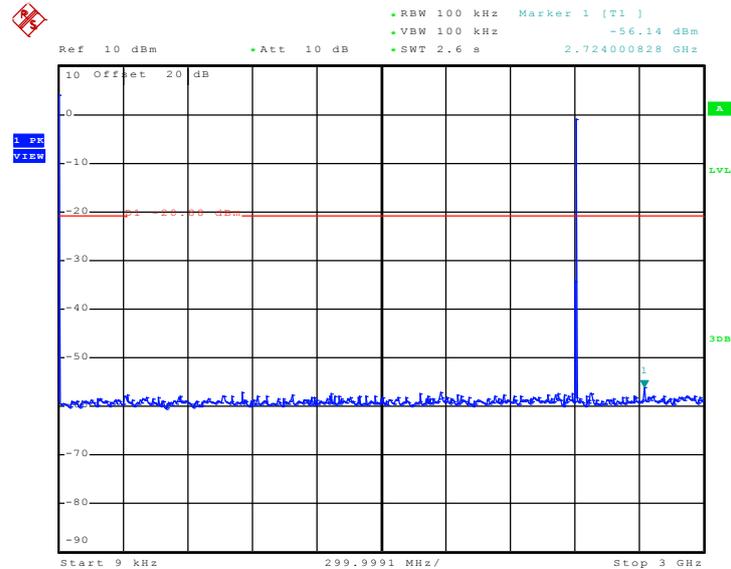
3.7.4 Test Setup



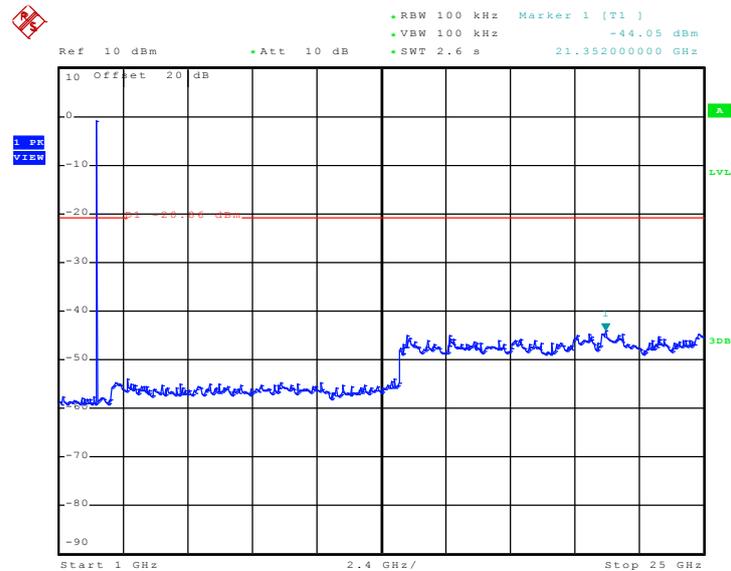
3.7.5 Test Result

| | | | |
|----------------|--------|---------------------|---------|
| Test Mode : | Mode 7 | Temperature : | 25~27°C |
| Test Channel : | 00 | Relative Humidity : | 52~55% |
| | | Test Engineer : | Ken Hsu |

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



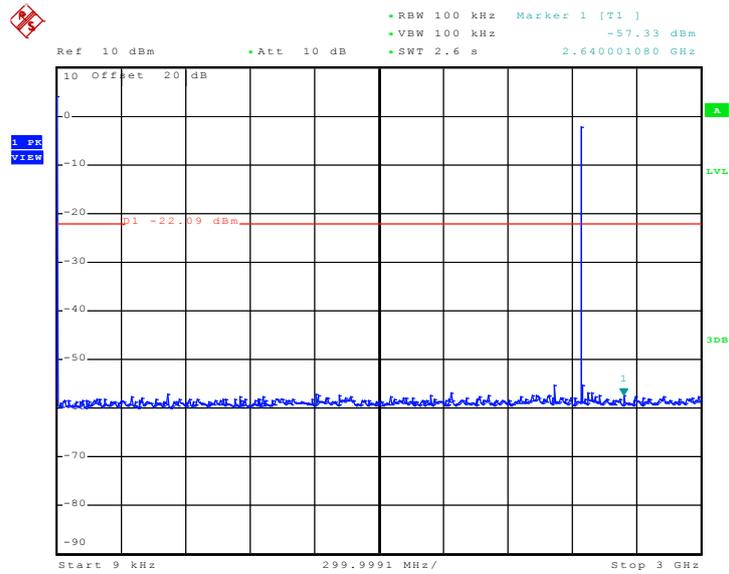
Conducted Spurious Emission Plot between 1 GHz ~ 25 GHz





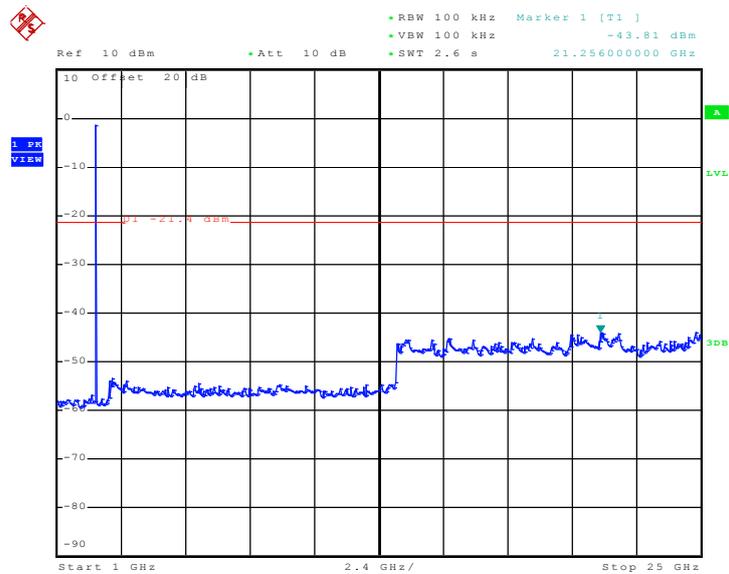
| | | | |
|----------------|--------|---------------------|---------|
| Test Mode : | Mode 8 | Temperature : | 25~27°C |
| Test Channel : | 39 | Relative Humidity : | 52~55% |
| | | Test Engineer : | Ken Hsu |

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 13.DEC.2009 15:33:37

Conducted Spurious Emission Plot between 1 GHz ~ 25 GHz

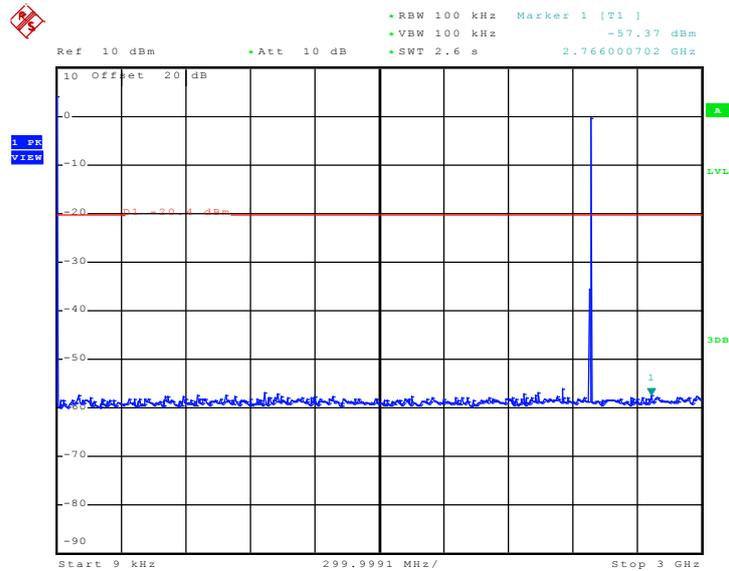


Date: 13.DEC.2009 15:34:17

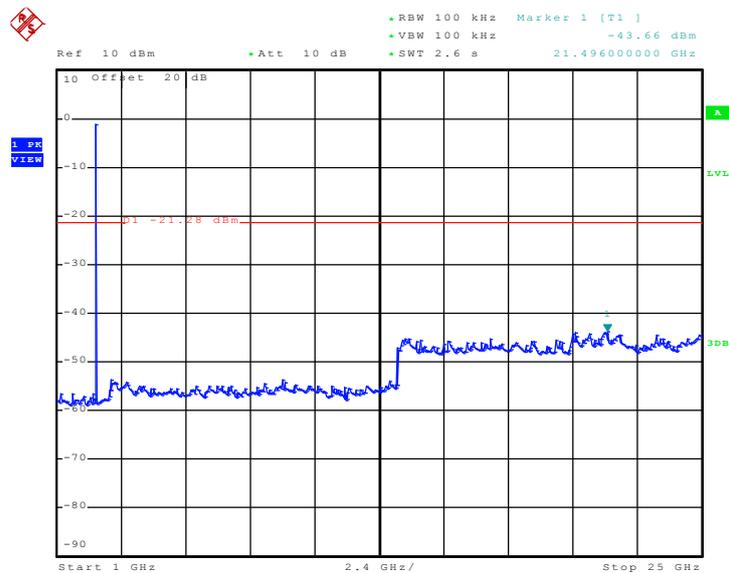


| | | | |
|----------------|--------|---------------------|---------|
| Test Mode : | Mode 9 | Temperature : | 25~27°C |
| Test Channel : | 78 | Relative Humidity : | 52~55% |
| | | Test Engineer : | Ken Hsu |

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Conducted Spurious Emission Plot between 1 GHz ~ 25 GHz



3.8 AC Conducted Emission Measurement

3.8.1 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.

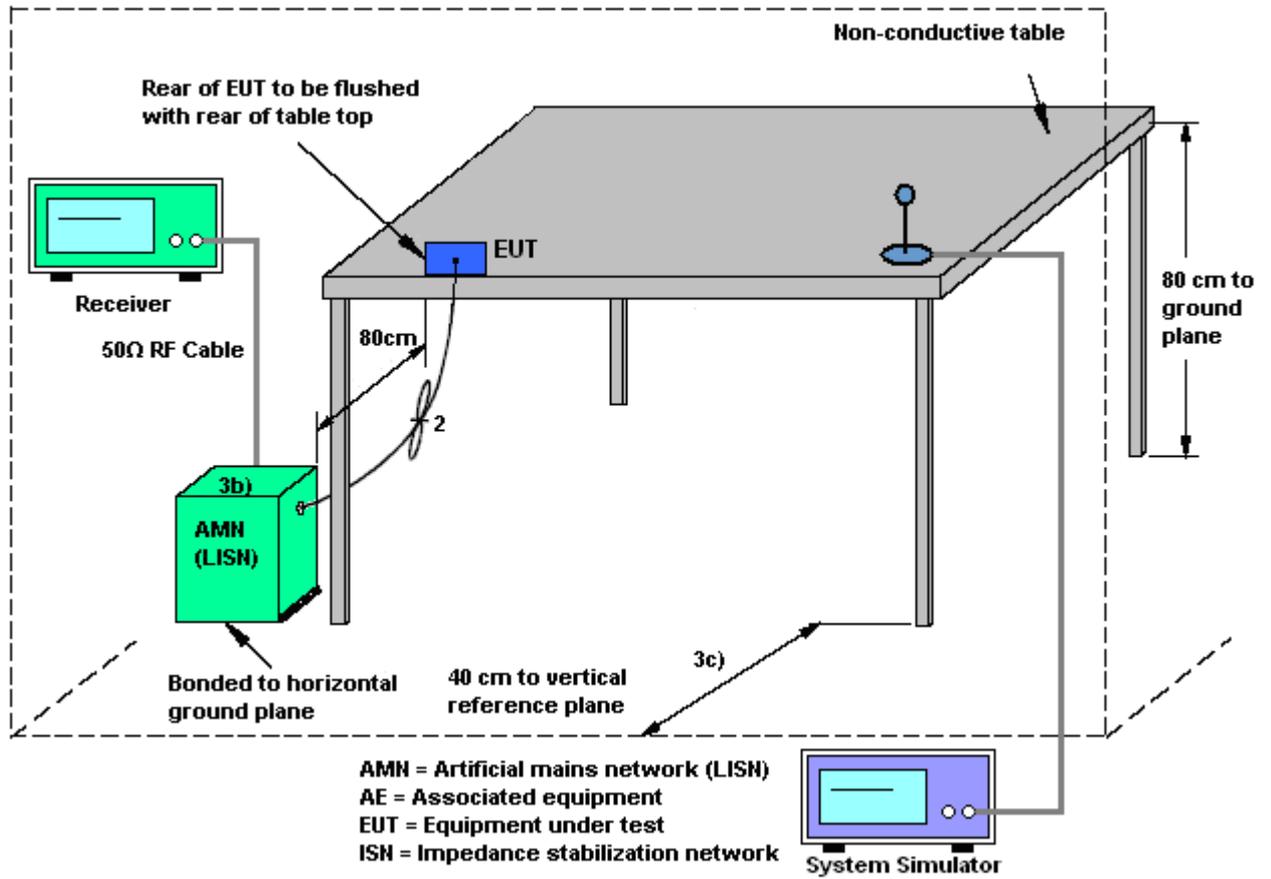
3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

3.8.3 Test Procedures

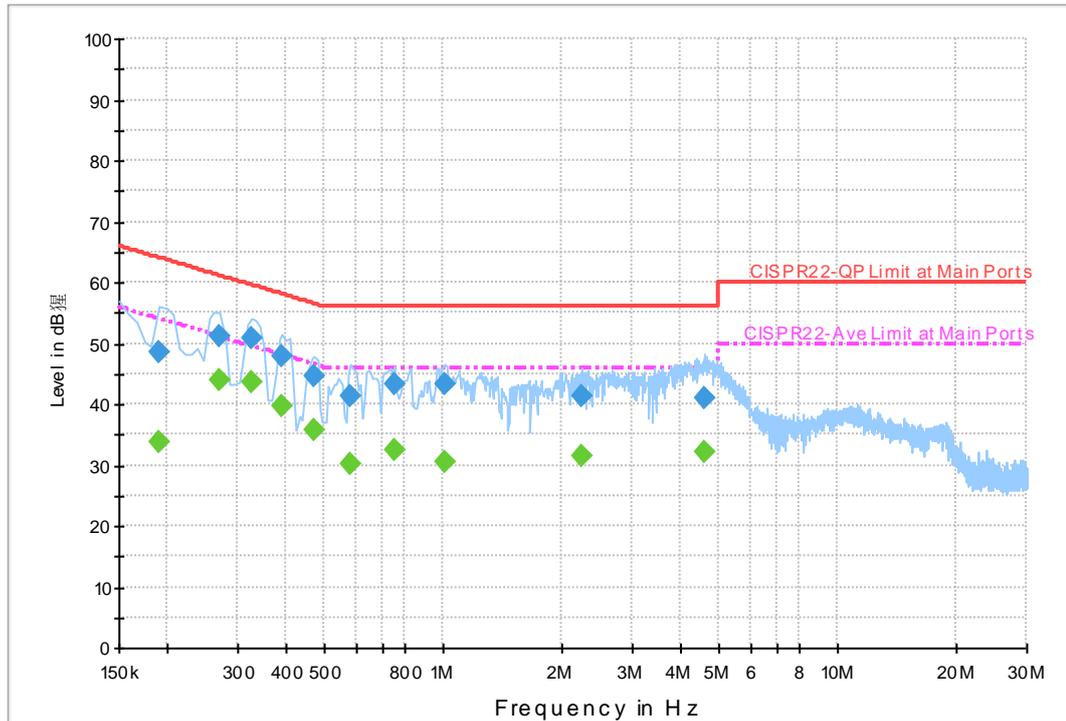
1. Please follow the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All 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.

3.8.4 Test Setup



3.8.5 Test Result of AC Conducted Emission

| | | | |
|-----------------|---|---------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 22~24°C |
| Test Engineer : | Hayden Wu | Relative Humidity : | 40~43% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + WLAN Link + Bluetooth Link + TC + Adapter | | |
| 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) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.190000 | 48.4 | Off | L1 | 19.5 | 15.6 | 64.0 |
| 0.270000 | 51.1 | Off | L1 | 19.4 | 10.0 | 61.1 |
| 0.326000 | 50.9 | Off | L1 | 19.5 | 8.7 | 59.6 |
| 0.390000 | 48.0 | Off | L1 | 19.4 | 10.1 | 58.1 |
| 0.470000 | 44.5 | Off | L1 | 19.4 | 12.0 | 56.5 |
| 0.582000 | 41.5 | Off | L1 | 19.5 | 14.5 | 56.0 |
| 0.750000 | 43.3 | Off | L1 | 19.5 | 12.7 | 56.0 |
| 1.006000 | 43.3 | Off | L1 | 19.4 | 12.7 | 56.0 |
| 2.238000 | 41.2 | Off | L1 | 19.5 | 14.8 | 56.0 |
| 4.574000 | 41.1 | Off | L1 | 19.6 | 14.9 | 56.0 |

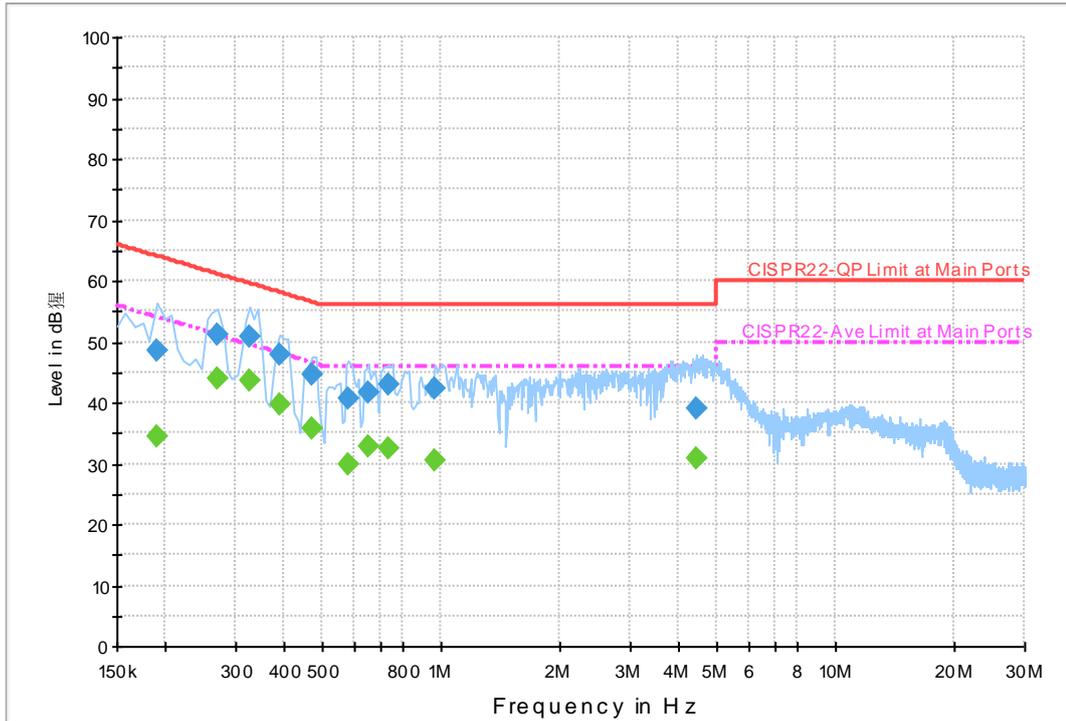


Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.190000 | 33.8 | Off | L1 | 19.5 | 20.2 | 54.0 |
| 0.270000 | 44.0 | Off | L1 | 19.4 | 7.1 | 51.1 |
| 0.326000 | 43.5 | Off | L1 | 19.5 | 6.1 | 49.6 |
| 0.390000 | 39.7 | Off | L1 | 19.4 | 8.4 | 48.1 |
| 0.470000 | 35.8 | Off | L1 | 19.4 | 10.7 | 46.5 |
| 0.582000 | 30.1 | Off | L1 | 19.5 | 15.9 | 46.0 |
| 0.750000 | 32.4 | Off | L1 | 19.5 | 13.6 | 46.0 |
| 1.006000 | 30.4 | Off | L1 | 19.4 | 15.6 | 46.0 |
| 2.238000 | 31.4 | Off | L1 | 19.5 | 14.6 | 46.0 |
| 4.574000 | 32.2 | Off | L1 | 19.6 | 13.8 | 46.0 |



| | | | |
|-----------------|---|---------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 22~24°C |
| Test Engineer : | Hayden Wu | Relative Humidity : | 40~43% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + WLAN Link + Bluetooth Link + TC + Adapter | | |
| 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) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.190000 | 48.5 | Off | N | 19.5 | 15.5 | 64.0 |
| 0.270000 | 51.0 | Off | N | 19.4 | 10.1 | 61.1 |
| 0.326000 | 51.0 | Off | N | 19.5 | 8.6 | 59.6 |
| 0.390000 | 47.8 | Off | N | 19.4 | 10.3 | 58.1 |
| 0.470000 | 44.5 | Off | N | 19.4 | 12.0 | 56.5 |
| 0.582000 | 40.8 | Off | N | 19.5 | 15.2 | 56.0 |
| 0.654000 | 41.8 | Off | N | 19.5 | 14.2 | 56.0 |
| 0.734000 | 42.8 | Off | N | 19.5 | 13.2 | 56.0 |
| 0.958000 | 42.4 | Off | N | 19.4 | 13.6 | 56.0 |
| 4.422000 | 39.1 | Off | N | 19.5 | 16.9 | 56.0 |



Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.190000 | 34.6 | Off | N | 19.5 | 19.4 | 54.0 |
| 0.270000 | 43.9 | Off | N | 19.4 | 7.2 | 51.1 |
| 0.326000 | 43.5 | Off | N | 19.5 | 6.1 | 49.6 |
| 0.390000 | 39.6 | Off | N | 19.4 | 8.5 | 48.1 |
| 0.470000 | 35.9 | Off | N | 19.4 | 10.6 | 46.5 |
| 0.582000 | 29.8 | Off | N | 19.5 | 16.2 | 46.0 |
| 0.654000 | 32.9 | Off | N | 19.5 | 13.1 | 46.0 |
| 0.734000 | 32.5 | Off | N | 19.5 | 13.5 | 46.0 |
| 0.958000 | 30.6 | Off | N | 19.4 | 15.4 | 46.0 |
| 4.422000 | 30.7 | Off | N | 19.5 | 15.3 | 46.0 |

3.9 Radiated Emission Measurement

3.9.1 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. 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 |

3.9.2 Measuring Instruments

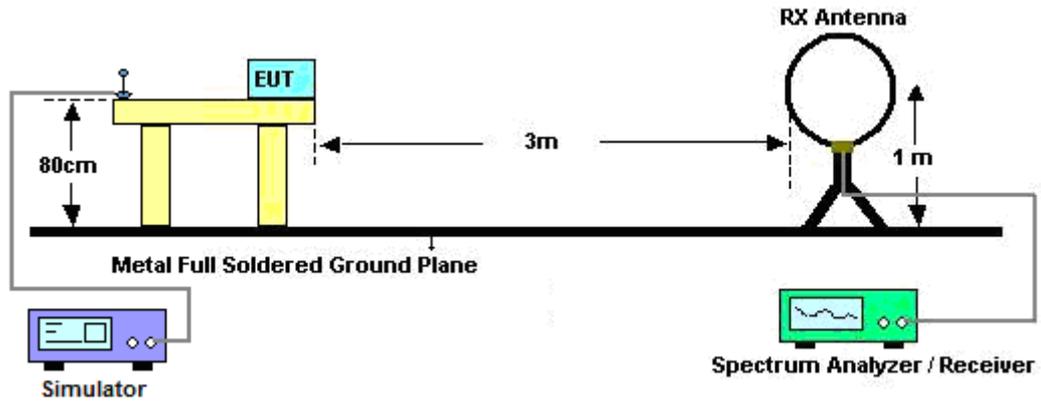
See list of measuring instruments of this test report.

3.9.3 Test Procedures

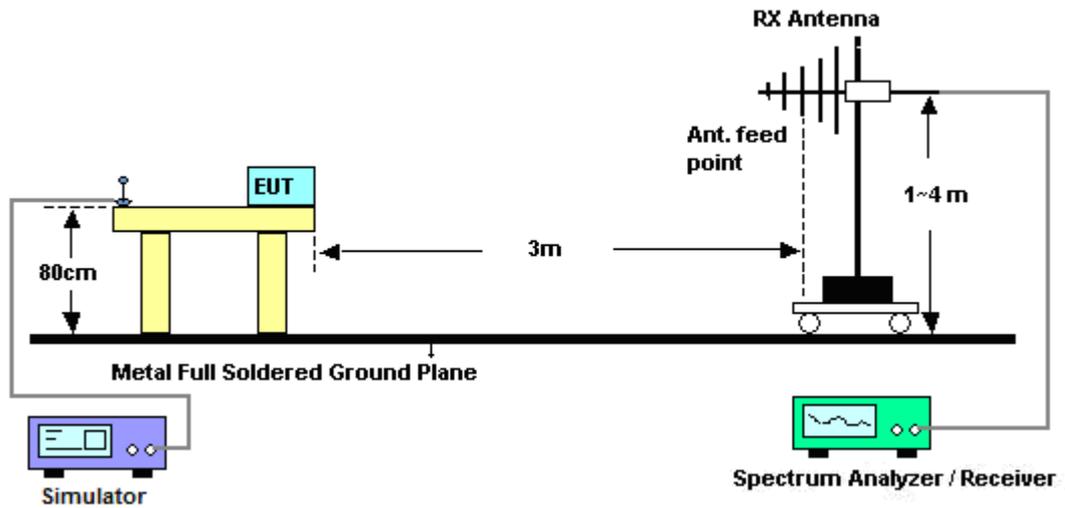
1. The testing follows the guidelines in FCC Public Notice DA 00-705 Measurement Guidelines.
2. Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
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.

3.9.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





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

| Test Engineer : | Cona Huang | Temperature : | 25~26°C | |
|-----------------|--------------|---------------------|-------------------|----------|
| | | Relative Humidity : | 50~53% | |
| 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.

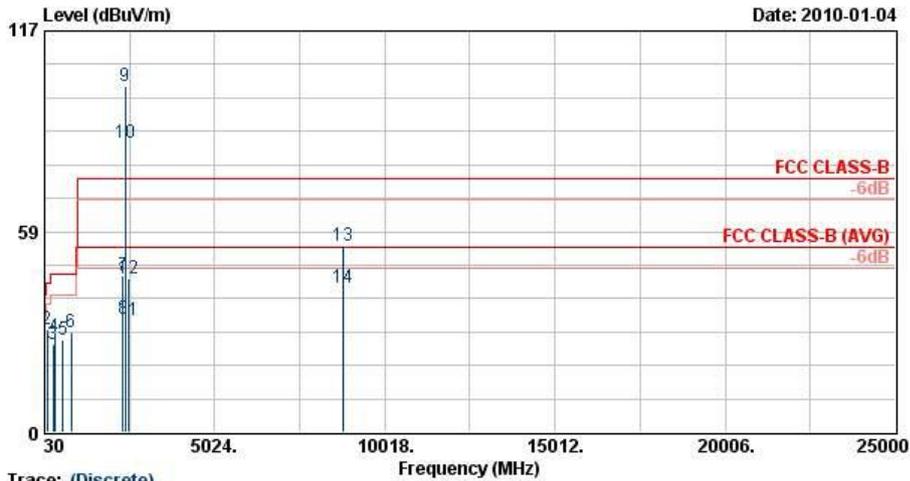
Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

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



3.9.6 Test Result of Radiated Emission (30 MHz ~ 10th Harmonic)

| | | | |
|-----------------|--|---------------------|------------|
| Test Mode : | Mode 1 | Temperature : | 25~26°C |
| Test Channel : | 00 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |

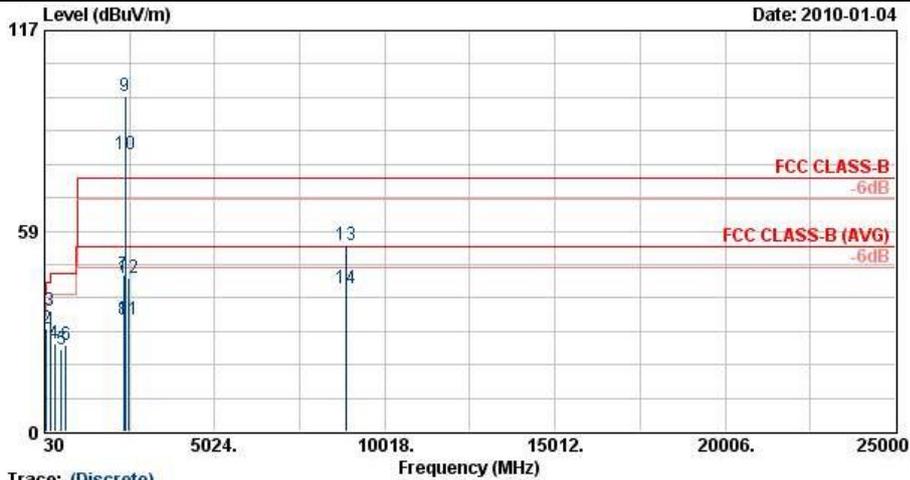


Trace: (Discrete)
 Site : 03CH07-HV
 Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
 Project : FR 9N1201-01

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|------|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 40.26 | 23.03 | -16.97 | 40.00 | 40.57 | 13.43 | 0.73 | 31.70 | --- | --- | Peak |
| 2 | 109.38 | 30.01 | -13.49 | 43.50 | 49.25 | 11.24 | 1.22 | 31.69 | 100 | 254 | Peak |
| 3 | 280.29 | 25.52 | -20.48 | 46.00 | 41.75 | 13.19 | 2.03 | 31.44 | --- | --- | Peak |
| 4 | 326.60 | 27.63 | -18.37 | 46.00 | 42.55 | 14.18 | 2.25 | 31.35 | --- | --- | Peak |
| 5 | 568.10 | 26.76 | -19.24 | 46.00 | 35.18 | 19.46 | 3.15 | 31.03 | --- | --- | Peak |
| 6 | 811.00 | 29.35 | -16.65 | 46.00 | 33.86 | 22.32 | 3.87 | 30.70 | --- | --- | Peak |
| 7 | 2322.54 | 45.73 | -28.27 | 74.00 | 42.32 | 32.02 | 5.51 | 34.13 | 102 | 309 | Peak |
| 8 | 2322.54 | 32.88 | -21.12 | 54.00 | 29.47 | 32.02 | 5.51 | 34.13 | 102 | 309 | Average |
| 9 X | 2402.00 | 101.02 | --- | --- | 97.58 | 32.13 | 5.46 | 34.16 | 102 | 309 | Peak |
| 10 @ | 2402.00 | 84.31 | --- | --- | 80.88 | 32.13 | 5.46 | 34.16 | 102 | 309 | Average |
| 11 | 2484.00 | 32.83 | -21.17 | 54.00 | 29.36 | 32.27 | 5.38 | 34.19 | 102 | 309 | Average |
| 12 | 2484.00 | 44.68 | -29.32 | 74.00 | 41.21 | 32.27 | 5.38 | 34.19 | 102 | 309 | Peak |
| 13 | 8781.00 | 54.57 | -19.43 | 74.00 | 43.28 | 36.17 | 10.27 | 35.16 | 100 | 221 | Peak |
| 14 | 8781.00 | 42.31 | -11.69 | 54.00 | 31.02 | 36.17 | 10.27 | 35.16 | 100 | 221 | Average |



| | | | |
|-----------------|--|---------------------|----------|
| Test Mode : | Mode 1 | Temperature : | 25~26°C |
| Test Channel : | 00 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |

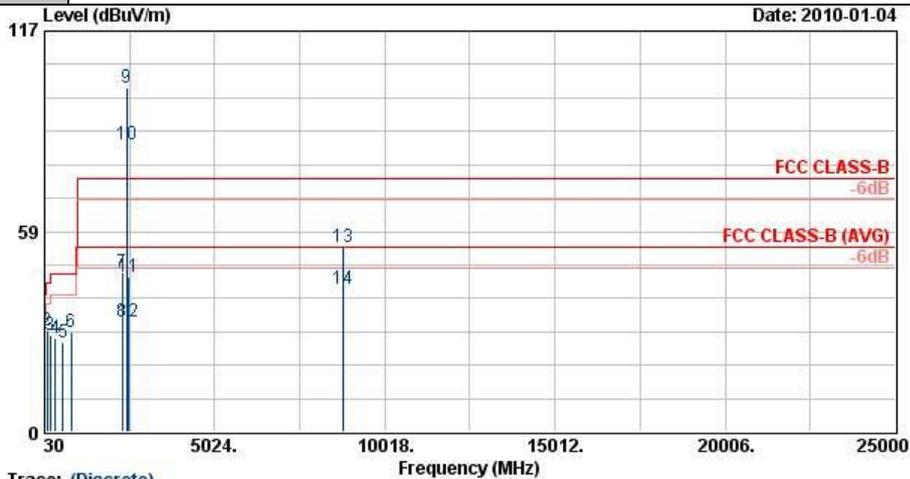


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
 Project : FR 9N1201-01

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|------|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | |
| | | | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 27.03 | -12.97 | 40.00 | 38.58 | 19.51 | 0.64 | 31.70 | --- | --- | Peak |
| 2 | 94.53 | 29.87 | -13.63 | 43.50 | 50.83 | 9.61 | 1.14 | 31.70 | --- | --- | Peak |
| 3 | 202.26 | 35.23 | -8.27 | 43.50 | 56.26 | 8.85 | 1.71 | 31.59 | 132 | 38 | Peak |
| 4 | 323.80 | 25.48 | -20.52 | 46.00 | 40.49 | 14.10 | 2.24 | 31.35 | --- | --- | Peak |
| 5 | 520.50 | 23.76 | -22.24 | 46.00 | 33.27 | 18.57 | 3.00 | 31.08 | --- | --- | Peak |
| 6 | 663.30 | 25.02 | -20.98 | 46.00 | 31.95 | 20.56 | 3.45 | 30.94 | --- | --- | Peak |
| 7 | 2356.74 | 45.63 | -28.37 | 74.00 | 42.20 | 32.08 | 5.49 | 34.14 | 100 | 284 | Peak |
| 8 | 2356.74 | 32.60 | -21.40 | 54.00 | 29.17 | 32.08 | 5.49 | 34.14 | 100 | 284 | Average |
| 9 X | 2402.00 | 97.96 | | | 94.53 | 32.13 | 5.46 | 34.16 | 100 | 284 | Peak |
| 10 @ | 2402.00 | 81.04 | | | 77.61 | 32.13 | 5.46 | 34.16 | 100 | 284 | Average |
| 11 | 2484.00 | 32.48 | -21.52 | 54.00 | 29.01 | 32.27 | 5.38 | 34.19 | 100 | 284 | Average |
| 12 | 2484.00 | 44.91 | -29.09 | 74.00 | 41.44 | 32.27 | 5.38 | 34.19 | 100 | 284 | Peak |
| 13 | 8865.00 | 54.44 | -19.56 | 74.00 | 43.09 | 36.22 | 10.30 | 35.17 | 100 | 35 | Peak |
| 14 | 8865.00 | 41.83 | -12.17 | 54.00 | 30.48 | 36.22 | 10.30 | 35.17 | 100 | 35 | Average |



| | | | |
|-----------------|--|---------------------|------------|
| Test Mode : | Mode 2 | Temperature : | 25~26°C |
| Test Channel : | 39 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |

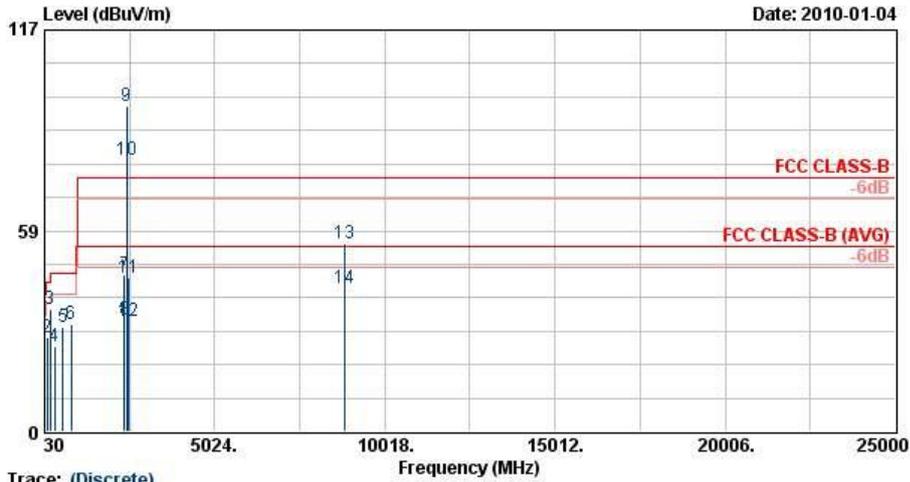


Site : 03CH07-HY
 Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
 Project : FR 9N1201-01

| | Freq | Level | Over Limit | Limit Line | ReadAntenna | Cable | Preamp | Ant | Table | Remark | |
|------|---------|--------|------------|------------|-------------|-------|--------|-------|-------|--------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 30.00 | 22.78 | -17.22 | 40.00 | 34.33 | 19.51 | 0.64 | 31.70 | --- | --- | Peak |
| 2 | 109.38 | 29.45 | -14.05 | 43.50 | 48.68 | 11.24 | 1.22 | 31.69 | 100 | 221 | Peak |
| 3 | 204.69 | 28.47 | -15.03 | 43.50 | 49.46 | 8.88 | 1.72 | 31.59 | --- | --- | Peak |
| 4 | 352.50 | 27.55 | -18.45 | 46.00 | 41.65 | 14.85 | 2.35 | 31.30 | --- | --- | Peak |
| 5 | 568.10 | 25.90 | -20.10 | 46.00 | 34.31 | 19.46 | 3.15 | 31.03 | --- | --- | Peak |
| 6 | 811.00 | 29.32 | -16.68 | 46.00 | 33.82 | 22.32 | 3.87 | 30.70 | --- | --- | Peak |
| 7 | 2310.00 | 46.72 | -27.28 | 74.00 | 43.31 | 32.00 | 5.53 | 34.12 | 100 | 315 | Peak |
| 8 | 2310.00 | 32.40 | -21.60 | 54.00 | 28.99 | 32.00 | 5.53 | 34.12 | 100 | 315 | Average |
| 9 @ | 2441.00 | 100.66 | | | 97.21 | 32.22 | 5.41 | 34.18 | 100 | 315 | Peak |
| 10 @ | 2441.00 | 83.77 | | | 80.32 | 32.22 | 5.41 | 34.18 | 100 | 315 | Average |
| 11 | 2500.00 | 45.04 | -28.96 | 74.00 | 41.57 | 32.30 | 5.37 | 34.20 | 100 | 315 | Peak |
| 12 | 2500.00 | 32.23 | -21.77 | 54.00 | 28.76 | 32.30 | 5.37 | 34.20 | 100 | 315 | Average |
| 13 | 8805.00 | 53.83 | -20.17 | 74.00 | 42.54 | 36.18 | 10.28 | 35.16 | 100 | 115 | Peak |
| 14 | 8805.00 | 41.58 | -12.42 | 54.00 | 30.28 | 36.18 | 10.28 | 35.16 | 100 | 115 | Average |



| | | | |
|-----------------|--|---------------------|----------|
| Test Mode : | Mode 2 | Temperature : | 25~26°C |
| Test Channel : | 39 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |

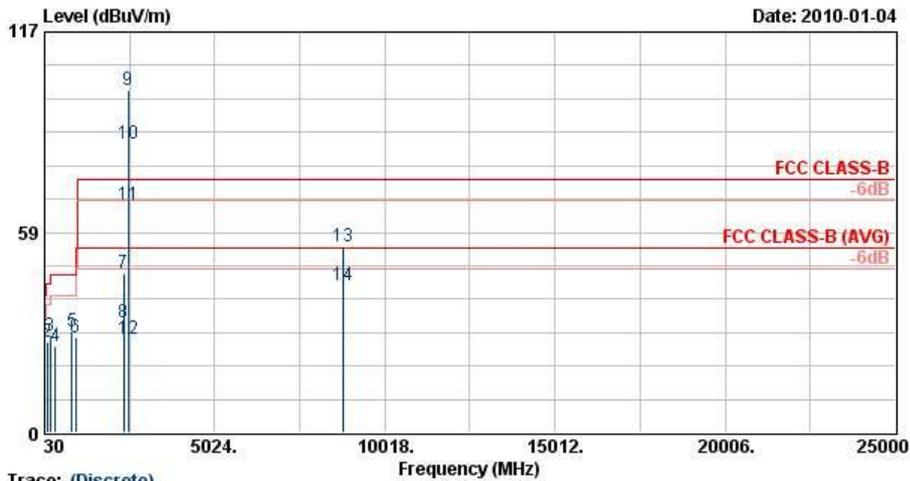


Trace: (Discrete)
 Site : D3CH07-HY
 Condition : FCC CLASS-B SHF-EHF HORN_001208 VERTICAL
 Project : FR 9N1201-01

| | Freq | Level | Over Limit | Limit Line | ReadAntenna | Cable | Preamp | Ant | Table | Remark |
|------|---------|--------|------------|------------|-------------|-------|--------|-------|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | cm | deg | |
| 1 | 35.94 | 27.46 | -12.54 | 40.00 | 42.27 | 16.20 | 0.69 | 31.70 | --- | Peak |
| 2 | 106.41 | 27.57 | -15.93 | 43.50 | 47.09 | 10.97 | 1.20 | 31.69 | --- | Peak |
| 3 | 201.45 | 35.62 | -7.88 | 43.50 | 56.67 | 8.83 | 1.71 | 31.60 | 130 | Peak |
| 4 | 324.50 | 24.92 | -21.08 | 46.00 | 39.90 | 14.13 | 2.24 | 31.35 | --- | Peak |
| 5 | 568.10 | 30.29 | -15.71 | 46.00 | 38.71 | 19.46 | 3.15 | 31.03 | --- | Peak |
| 6 | 811.00 | 31.13 | -14.87 | 46.00 | 35.64 | 22.32 | 3.87 | 30.70 | --- | Peak |
| 7 | 2382.00 | 45.55 | -28.45 | 74.00 | 42.12 | 32.11 | 5.47 | 34.15 | 100 | Peak |
| 8 | 2382.00 | 32.64 | -21.36 | 54.00 | 29.21 | 32.11 | 5.47 | 34.15 | 100 | Average |
| 9 X | 2441.00 | 94.88 | | | 91.43 | 32.22 | 5.41 | 34.18 | 100 | Peak |
| 10 @ | 2441.00 | 79.01 | | | 75.56 | 32.22 | 5.41 | 34.18 | 100 | Average |
| 11 | 2492.00 | 44.83 | -29.17 | 74.00 | 41.36 | 32.30 | 5.37 | 34.20 | 100 | Peak |
| 12 | 2492.00 | 32.24 | -21.76 | 54.00 | 28.77 | 32.30 | 5.37 | 34.20 | 100 | Average |
| 13 | 8817.00 | 54.83 | -19.17 | 74.00 | 43.52 | 36.19 | 10.28 | 35.17 | 110 | Peak |
| 14 | 8817.00 | 41.85 | -12.15 | 54.00 | 30.54 | 36.19 | 10.28 | 35.17 | 110 | Average |



| | | | |
|-----------------|--|---------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Horizontal |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |

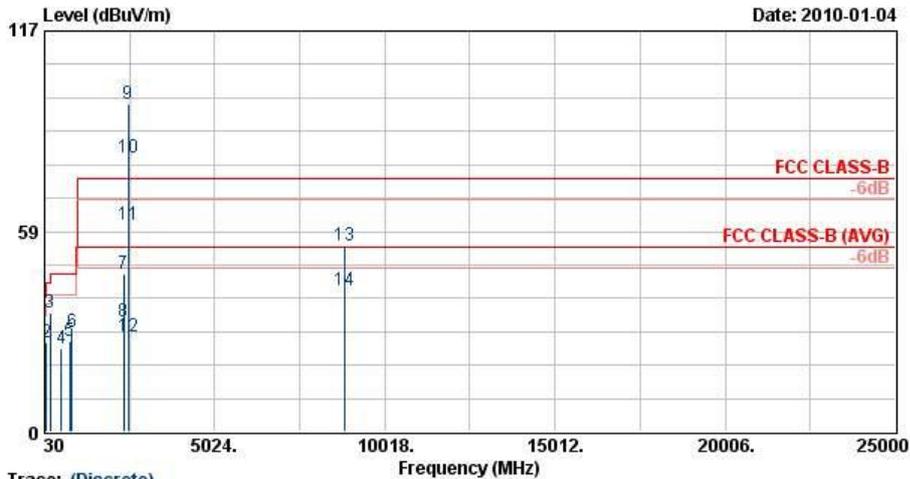


Trace: (Discrete)
 Site : 03CH07-HY
 Condition : FCC CLASS-B SHF-EHF HORN_091208 HORIZONTAL
 Project : FR 9N1201-01

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|------|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 38.37 | 19.64 | -20.36 | 40.00 | 36.03 | 14.59 | 0.72 | 31.70 | --- | --- | Peak |
| 2 | 115.05 | 26.33 | -17.17 | 43.50 | 44.98 | 11.78 | 1.25 | 31.68 | --- | --- | Peak |
| 3 | 201.45 | 28.08 | -15.42 | 43.50 | 49.13 | 8.83 | 1.71 | 31.60 | 110 | 105 | Peak |
| 4 | 349.00 | 25.38 | -20.62 | 46.00 | 39.57 | 14.77 | 2.34 | 31.30 | --- | --- | Peak |
| 5 | 841.80 | 29.62 | -16.38 | 46.00 | 33.75 | 22.62 | 3.94 | 30.70 | --- | --- | Peak |
| 6 | 934.90 | 28.00 | -18.00 | 46.00 | 30.73 | 23.71 | 4.23 | 30.67 | --- | --- | Peak |
| 7 | 2350.00 | 46.60 | -27.40 | 74.00 | 43.19 | 32.05 | 5.50 | 34.14 | 100 | 300 | Peak |
| 8 | 2350.00 | 32.30 | -21.70 | 54.00 | 28.89 | 32.05 | 5.50 | 34.14 | 100 | 300 | Average |
| 9 @ | 2480.00 | 99.99 | --- | --- | 96.52 | 32.27 | 5.38 | 34.19 | 100 | 300 | Peak |
| 10 @ | 2480.00 | 84.50 | --- | --- | 81.03 | 32.27 | 5.38 | 34.19 | 100 | 300 | Average |
| 11 | 2484.69 | 66.33 | -7.67 | 74.00 | 62.86 | 32.27 | 5.38 | 34.19 | 100 | 300 | Peak |
| 12 | 2484.69 | 27.27 | -26.73 | 54.00 | 23.80 | 32.27 | 5.38 | 34.19 | 100 | 300 | Average |
| 13 | 8802.00 | 54.24 | -19.76 | 74.00 | 42.94 | 36.18 | 10.28 | 35.16 | 100 | 130 | Peak |
| 14 | 8802.00 | 43.10 | -10.90 | 54.00 | 31.80 | 36.18 | 10.28 | 35.16 | 100 | 130 | Average |



| | | | |
|-----------------|--|---------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 25~26°C |
| Test Channel : | 78 | Relative Humidity : | 50~53% |
| Test Engineer : | Cona Huang | Polarization : | Vertical |
| Remark : | #9 and #10 are Fundamental Signals which can be ignored. | | |



Trace: (Discrete)
 Site : D3CH07-HY
 Condition : FCC CLASS-B SHF-EHF HORN_091208 VERTICAL
 Project : FR 9N1201-01

| | Freq | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Remark |
|------|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 35.94 | 27.54 | -12.46 | 40.00 | 42.35 | 16.20 | 0.69 | 31.70 | --- | --- | Peak |
| 2 | 83.73 | 25.97 | -14.03 | 40.00 | 48.67 | 7.96 | 1.03 | 31.70 | --- | --- | Peak |
| 3 | 200.37 | 34.62 | -8.88 | 43.50 | 55.70 | 8.82 | 1.70 | 31.60 | 100 | 36 | Peak |
| 4 | 520.50 | 24.39 | -21.61 | 46.00 | 33.90 | 18.57 | 3.00 | 31.08 | --- | --- | Peak |
| 5 | 761.30 | 26.52 | -19.48 | 46.00 | 31.88 | 21.68 | 3.73 | 30.78 | --- | --- | Peak |
| 6 | 841.80 | 29.32 | -16.68 | 46.00 | 33.46 | 22.62 | 3.94 | 30.70 | --- | --- | Peak |
| 7 | 2350.00 | 45.95 | -28.05 | 74.00 | 42.54 | 32.05 | 5.50 | 34.14 | 100 | 280 | Peak |
| 8 | 2350.00 | 31.99 | -22.01 | 54.00 | 28.58 | 32.05 | 5.50 | 34.14 | 100 | 280 | Average |
| 9 X | 2480.00 | 95.88 | | | 92.42 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |
| 10 @ | 2480.00 | 79.85 | | | 76.38 | 32.27 | 5.38 | 34.19 | 100 | 280 | Average |
| 11 | 2484.04 | 60.41 | -13.59 | 74.00 | 56.94 | 32.27 | 5.38 | 34.19 | 100 | 280 | Peak |
| 12 | 2484.04 | 27.70 | -26.30 | 54.00 | 24.23 | 32.27 | 5.38 | 34.19 | 100 | 280 | Average |
| 13 | 8829.00 | 54.22 | -19.78 | 74.00 | 42.90 | 36.20 | 10.29 | 35.17 | 110 | 88 | Peak |
| 14 | 8829.00 | 41.42 | -12.58 | 54.00 | 30.10 | 36.20 | 10.29 | 35.17 | 110 | 88 | Average |



3.10 Antenna Requirements

3.10.1 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. 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.

3.10.2 Antenna Connected Construction

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

3.10.3 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 |
|---------------------------|--------------|-----------|-------------|-----------------------|------------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSP40 | 100055 | 9kHz~40GHz | Jun. 23, 2009 | Jun. 22, 2010 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 0932001 | N/A | Sep. 17, 2009 | Sep. 16, 2010 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 0846202 | N/A | Sep. 10, 2009 | Sep. 09, 2010 | Conducted (TH02-HY) |
| 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) |
| System Simulator | R&S | CMU200 | 117997 | N/A | May 14, 2009 | May 13, 2011 | - |

5 Uncertainty of Evaluation

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

| 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 $U_c(y)$ | 1.13 | | |
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 2.26 | | |

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

| 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 $U_c(y)$ | 1.27 | | |
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 2.54 | | |

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

| 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 Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$ | +0.34 / -0.35 | U-Shape | 0.244 | 1 | 0.244 |
| Combined Standard Uncertainty $U_c(y)$ | 2.36 | | | | |
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 4.72 | | | | |

6 Certification of TAF Accreditation



Certificate No. : L1190-091230

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, 2010 to January 09, 2013 |
| Accredited Scope | : Testing Field, see described in the Appendix |
| Specific Accreditation Program | : Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities |


Jay-San Chen
President, Taiwan Accreditation Foundation
Date : December 30, 2009

P1, total 22 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 EP9N1201-01 as below.