

# ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : W162R-D005

AGR No. : A161A-183

Applicant : Na eui ga neun gil Co., LTD

Address : 1002, DongNam B/D. 279 Gamasanro, Gurogu, Seoul, Republic of Korea, 08301

Manufacturer : Na eui ga neun gil Co., LTD

Address : 1002, DongNam B/D. 279 Gamasanro, Gurogu, Seoul, Republic of Korea, 08301

Type of Equipment : Blissbuds Baby's fetal Heartbeat Smart Monitor

FCC ID. : 2AHB6-BBSMT01

Model Name : BBSMT01

Serial number : N/A

Total page of Report : 30 pages (including this page)

Date of Incoming : January 22, 2016

Date of issue : February 05, 2016

## SUMMARY

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247*

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:



Jae-Ho, Lee / Chief Engineer  
ONETECH Corp.

Approved by:



Sung-Ik, Han / Managing Director  
ONETECH Corp.

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### Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W162R-D005	February 05, 2016	Initial Issue	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : Na eui ga neun gil Co., LTD  
 Address : 1002, DongNam B/D. 279 Gamasanro, Gurogu, Seoul, Republic of Korea, 08301  
 Contact Person : Chang kun Lee / CEO  
 Telephone No. : +82-70-7626-6709  
 FCC ID : 2AHB6-BBSMT01  
 Model Name : BBSMT01  
 Serial Number : N/A  
 Date : February 05, 2016

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Blissbuds Baby's fetal Heartbeat Smart Monitor
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. TEST SUMMARY

### 2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note: The test is not performed because the EUT is operated by DC battery.

### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

### 2.3 Related Submittal(s) / Grant(s)

Original submittal only

### 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

### 2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

### 2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 301-14, Daessangnyeong-ri, Chowol-eup, Gwangju-si, Gyeonggi-do, 464-862 Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-4112/ C-4617/ G-666/ T-1842

IC (Industry Canada) – Registration No. Site# 3736A-3

-. Site Accreditation:

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

### 3. GENERAL INFORMATION

#### 3.1 Product Description

The Na eui ga neun gil Co., LTD, Model BBSMT01 (referred to as the EUT in this report) is a Blissbuds Baby's fetal Heartbeat Smart Monitor. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Blissbuds Baby's fetal Heartbeat Smart Monitor
Temperature Range	-10 °C ~ +50 °C
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-1.46 dBm
Number of Channel	40 Channel
Modulation Type	GFSK
Antenna Type	PCB Antenna
USED RF CHIP	Maker: TEXAS INSTRUMENTS Model Name: CC2541
Antenna Gain	5.3 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz

#### 3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

### 4. EUT MODIFICATIONS

-. None

## 5. SYSTEM TEST CONFIGURATION

### 5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Na eui ga neun gil Co., LTD	MY WAY 151222	N/A

### 5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
BBSMT01	Na eui ga neun gil Co., LTD	Blissbuds Baby's fetal Heartbeat Smart Monitor (EUT)	-
IM-A850K	PANTECH	Smart Phone	-

### 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 2 402 MHz, 2 440 MHz, and 2 480 MHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is "XZ" axis, but the worst data was recorded in this report.



## 5.4 Configuration of Test System

**Line Conducted Test:** It is not need to test this requirement, because the EUT shall be operated by DC battery.

**Radiated Emission Test:** Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2013 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 m Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

## 5.5 Antenna Requirement

For intentional device, according to section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### Antenna Construction:

The antenna of the EUT is a PCB antenna on the main board in the EUT, so no consideration of replacement by the user.

## 6. PRELIMINARY TEST

### 6.1 AC Power line Conducted Emissions Tests

During Preliminary Tests, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
It is not need to test this requirement, because the power of the EUT is supplied by battery.	

### 6.2 General Radiated Emissions Tests

During Preliminary Tests, the following operating modes were investigated

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

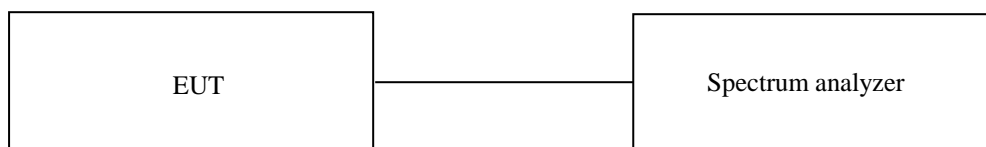
## 7. MINIMUM 6 dB BANDWIDTH

### 7.1 Operating environment

Temperature : 20.1 °C  
Relative humidity : 57.4 % R.H.

### 7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



### 7.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 29, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

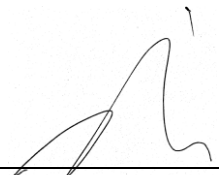
## 7.4 Test data

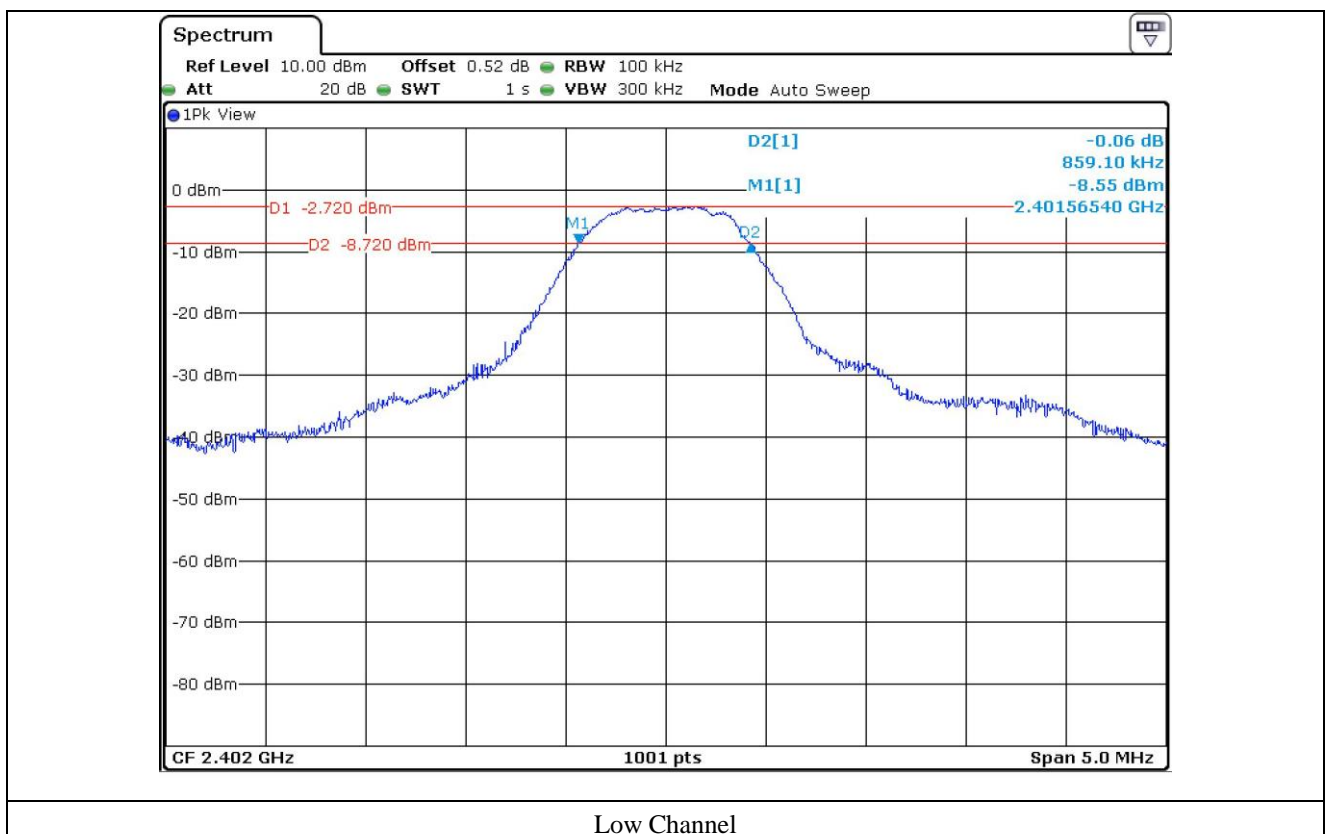
-. Test Date : January 28, 2016

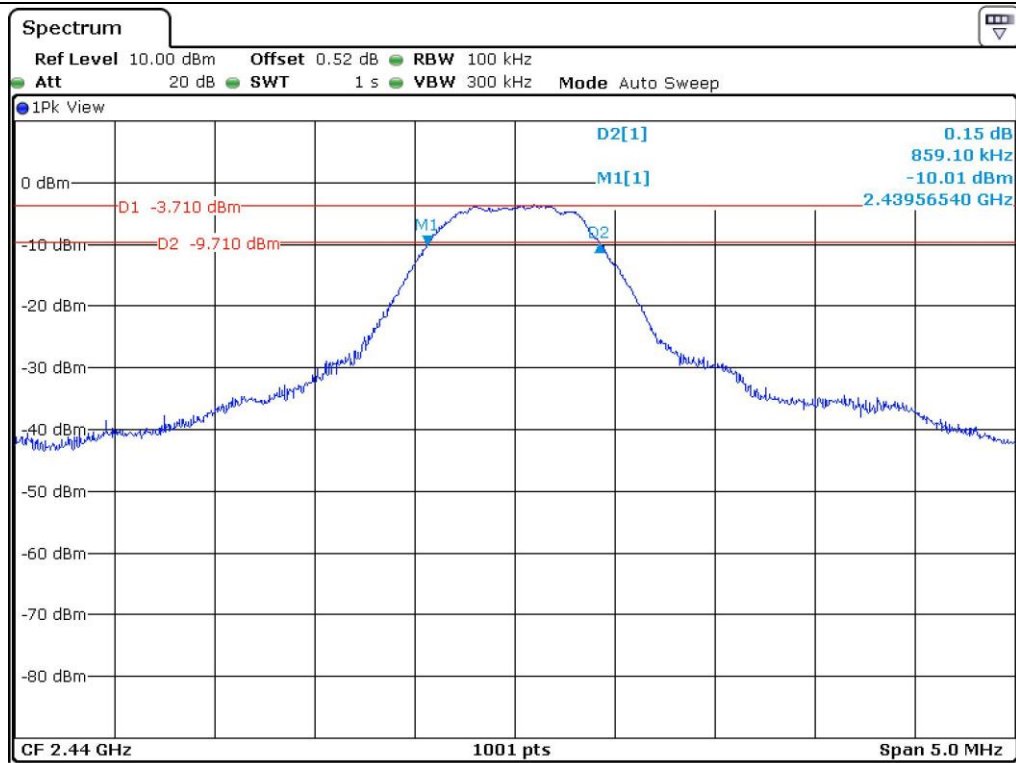
-. Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402	859.10	500	359.10
Middle	2 440	859.10	500	359.10
High	2 480	859.10	500	359.10

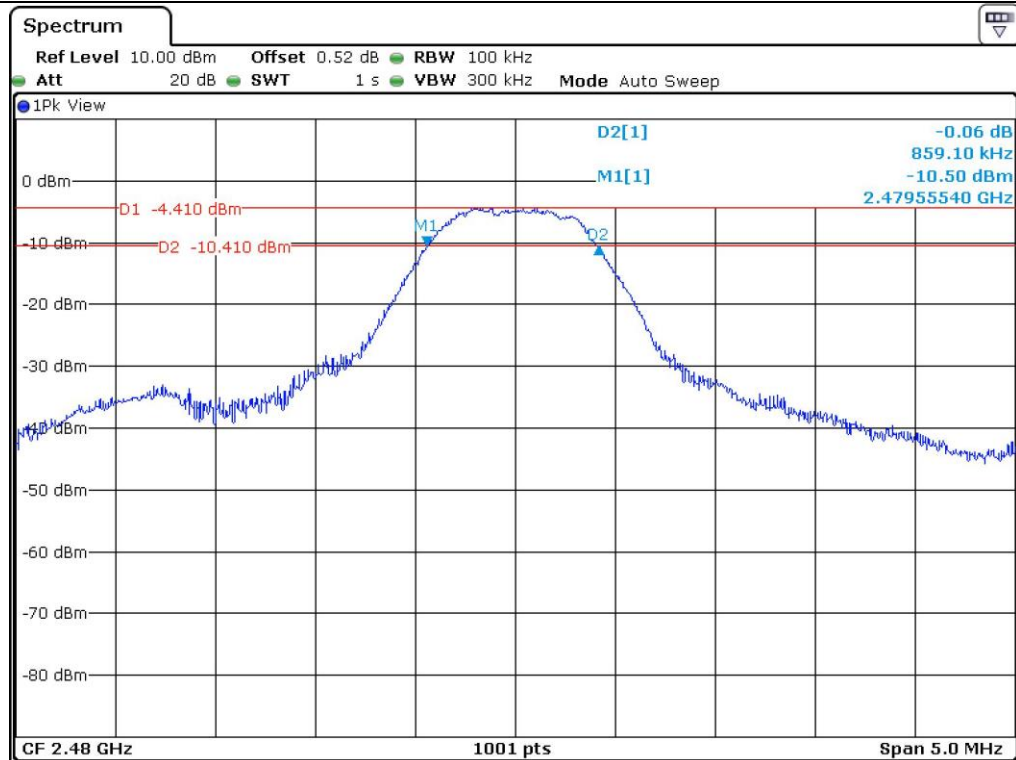
Remark. Margin = Measured Value - Limit

  
 Tested by: Jun-Hui, Lee / Senior Engineer





Middle Channel



High Channel

## 8. MAXIMUM PEAK OUTPUT POWER

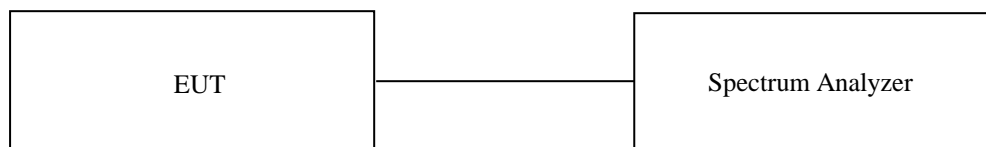
### 8.1 Operating environment

Temperature : 20.1 °C  
Relative humidity : 57.4 % R.H.

### 8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to  $\geq$  DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



### 8.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ - FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 29, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

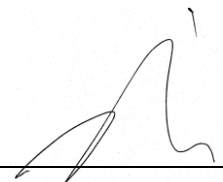
## 8.4 Test data

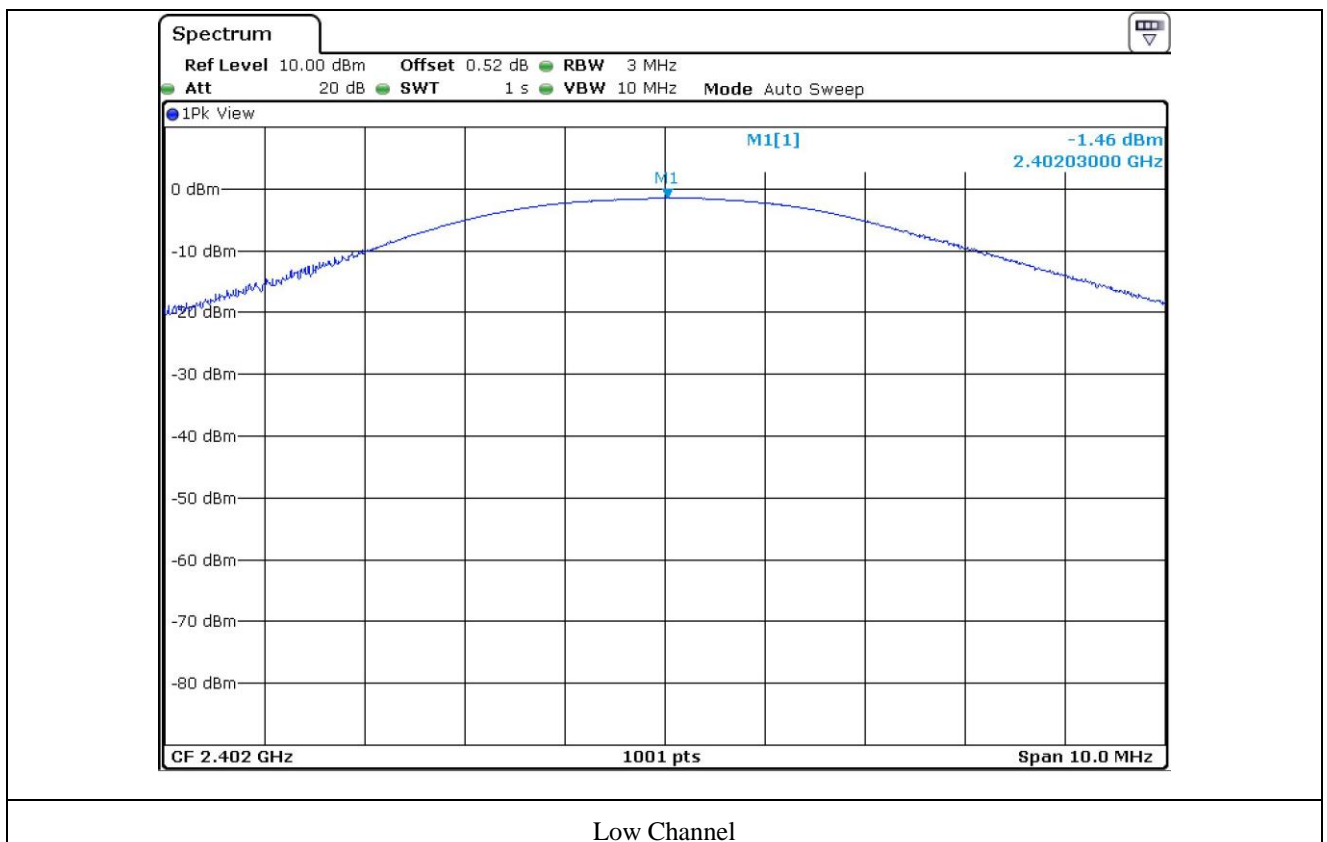
-. Test Date : January 28, 2016

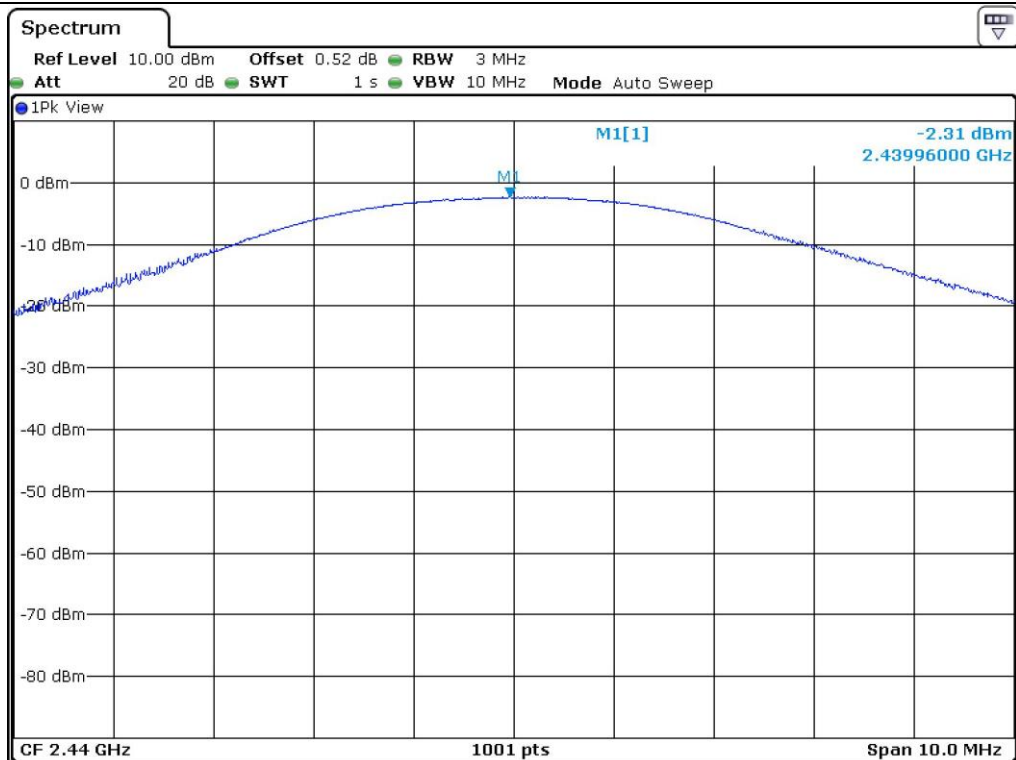
-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402	-1.46	30	31.46
MIDDLE	2 440	-2.31	30	32.31
HIGH	2 480	-3.08	30	33.08

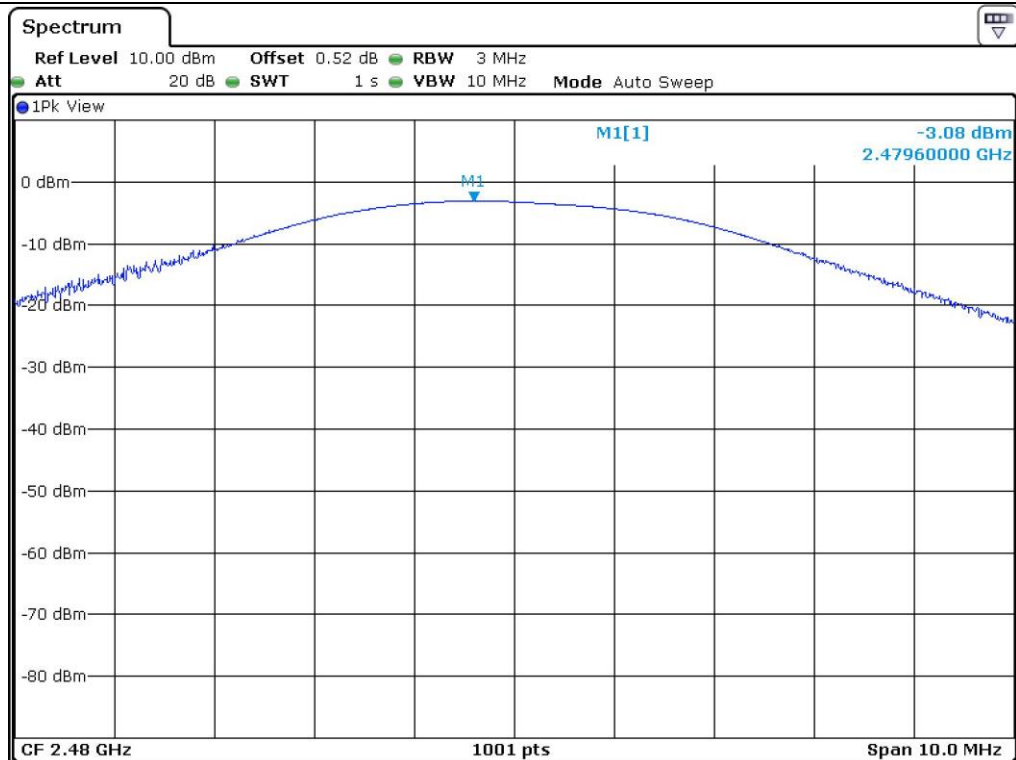
Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

  
 Tested by: Jun-Hui, Lee / Senior Engineer





Middle Channel



High Channel

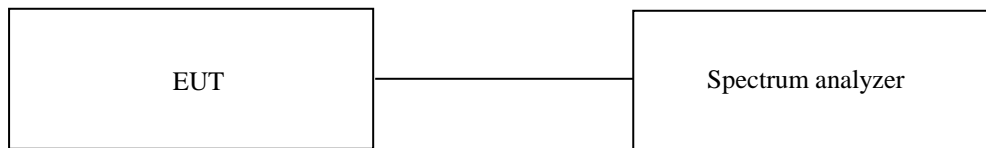
## 9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

### 9.1 Operating environment

Temperature : 21.6 °C  
Relative humidity : 43.0 % R.H.

### 9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



### 9.3 Test set-up for radiated measurement

The radiated emissions measurements were on the 3 m, Semi Anechoic Chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cable reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

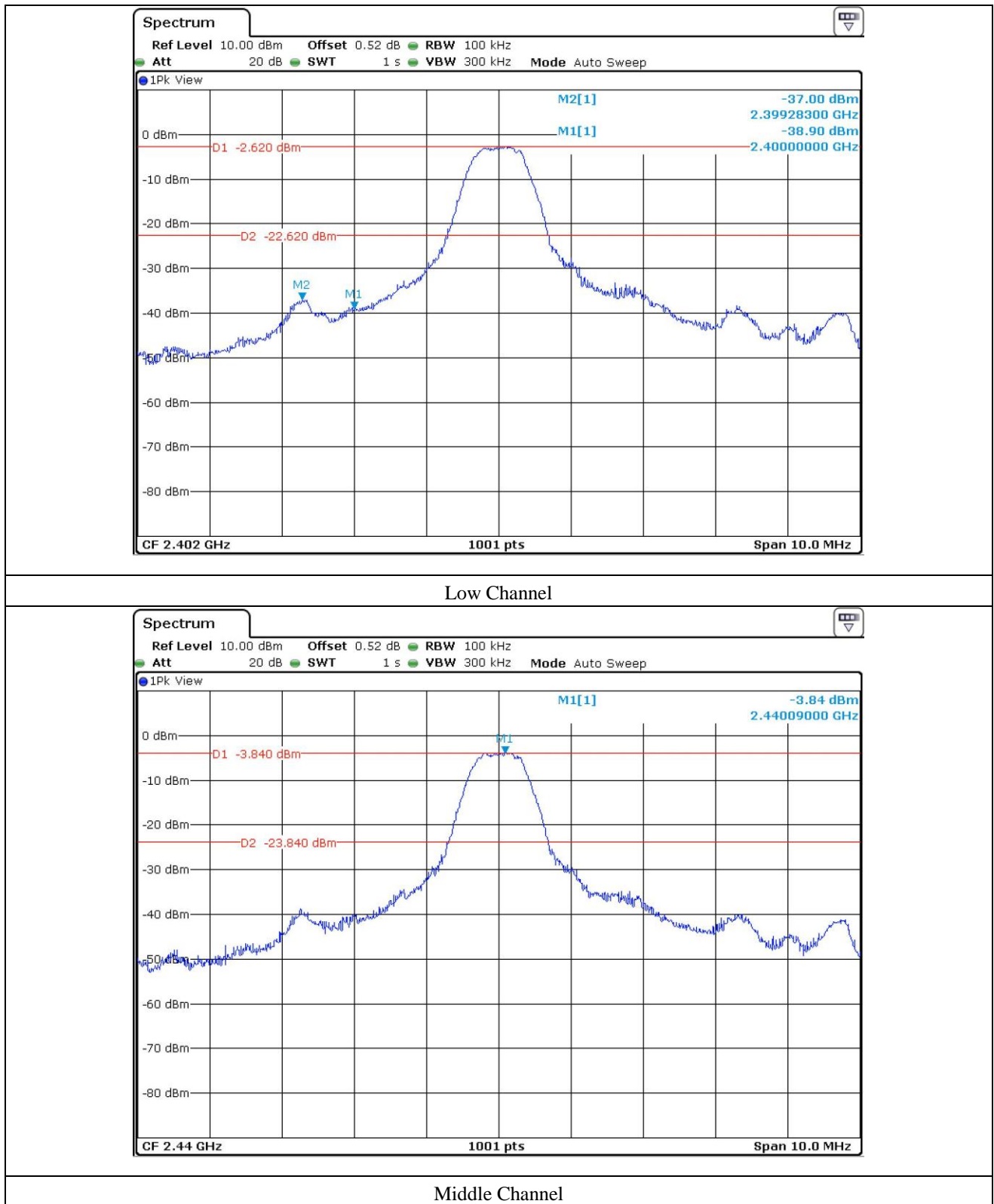
### 9.4 Test equipment used

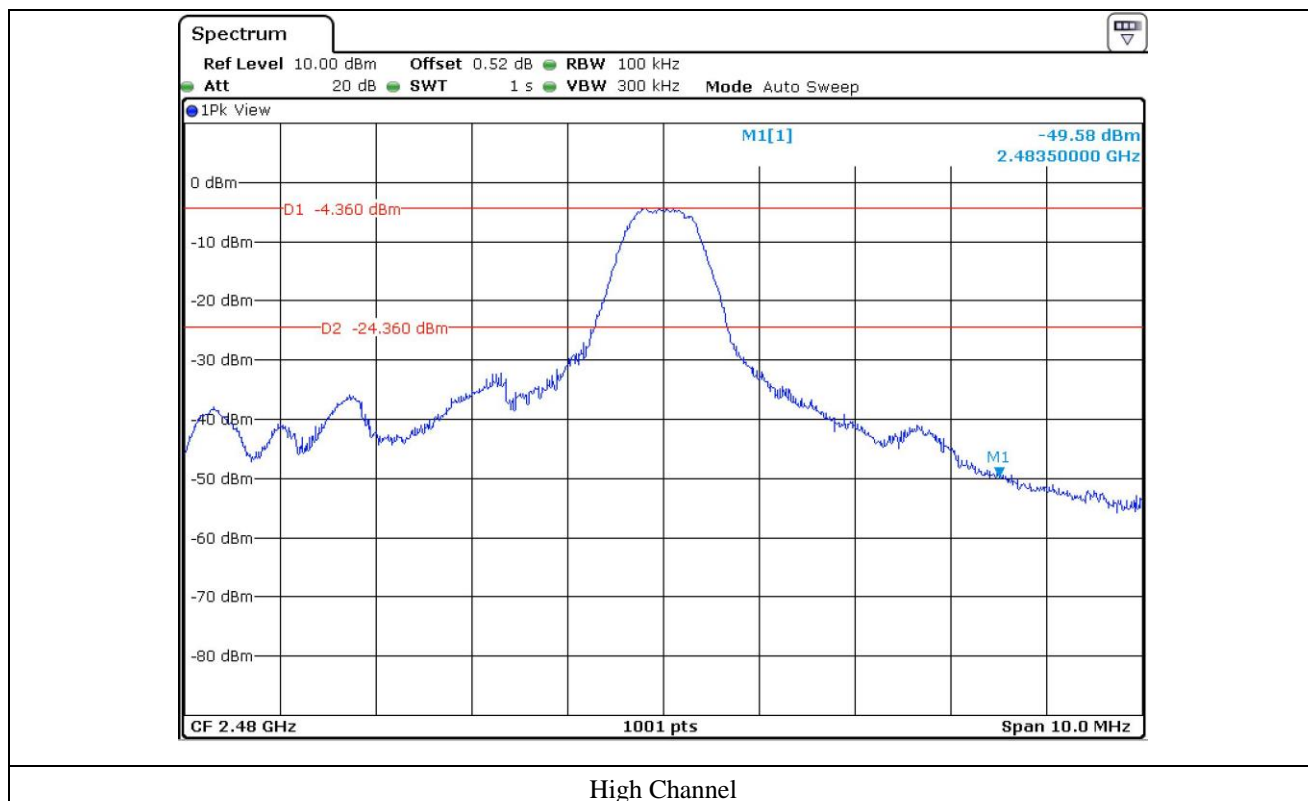
	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
□ -	ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Nov. 02, 2015 (1Y)
■ -	ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 29, 2015 (1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	Apr. 28, 2015 (1Y)
□ -	FSP	Rohde & Schwarz	Spectrum Analyzer	100017	Oct. 07, 2015 (1Y)
■ -	310N	Sonoma Instrument	AMPLIFIER	312544	Apr. 29, 2015 (1Y)
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 29, 2015 (1Y)
■ -	SCU-18	Rohde & Schwarz	PRE-AMPLIFIER	10041	Nov. 03, 2015 (1Y)
■ -	MA240	HD GmbH	Antenna Master	N/A	N/A
■ -	HD100	HD GmbH	Position Controller	N/A	N/A
■ -	DS420S	HD GmbH	Turn Table	N/A	N/A
■ -	HFH2-Z2	Rohde & Schwarz	Loop Antenna	879 285/26	Dec. 09, 2014 (2Y)
■ -	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-255	May 02, 2014 (2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Aug. 31, 2015 (2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Aug. 31, 2015 (2Y)
■ -	83051A	Agilent	Microwave System Preamplifier	3950M00201	Apr. 30, 2015 (1Y)

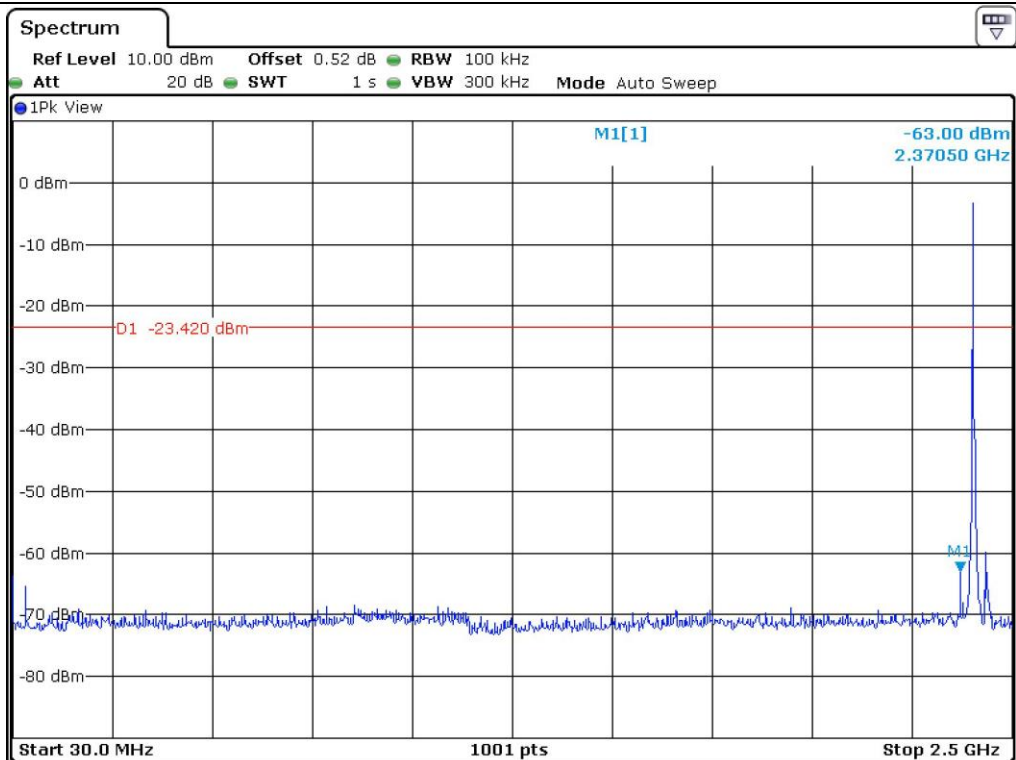
All test equipment used is calibrated on a regular basis.



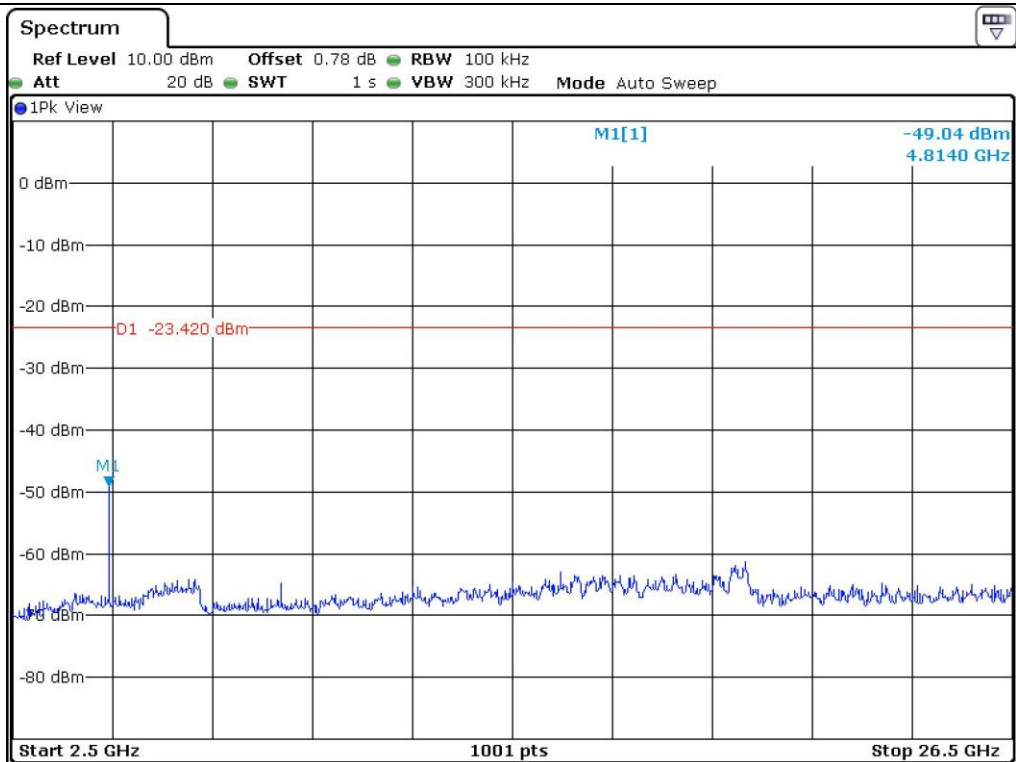
## 9.5 Test data for conducted emission



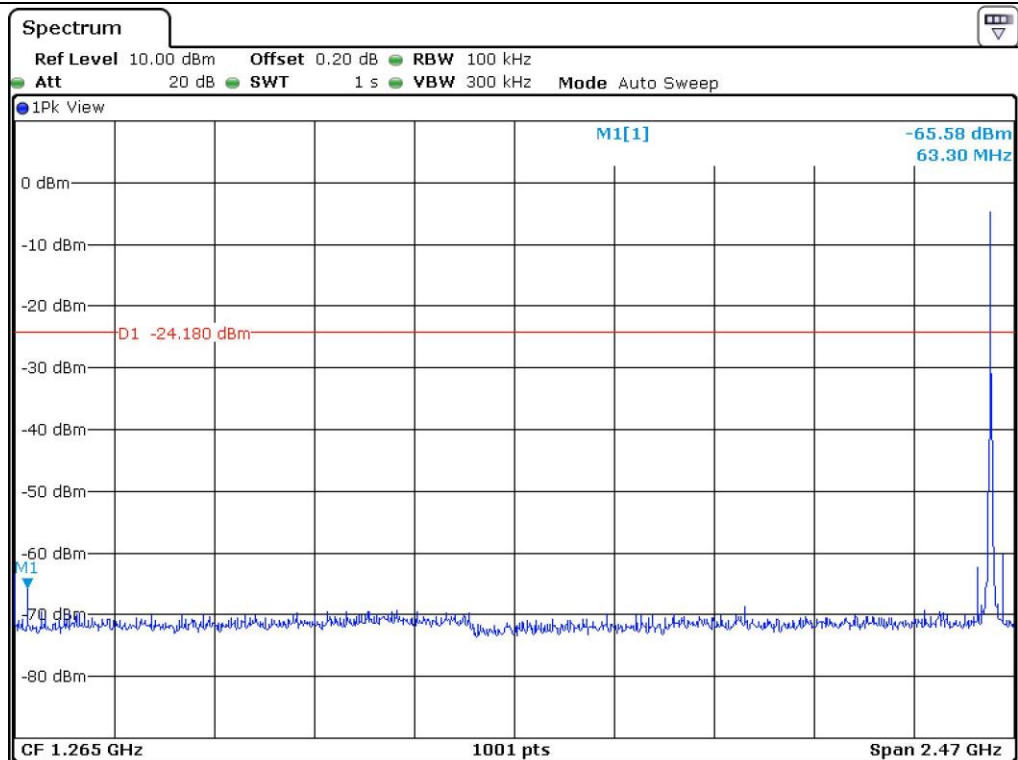




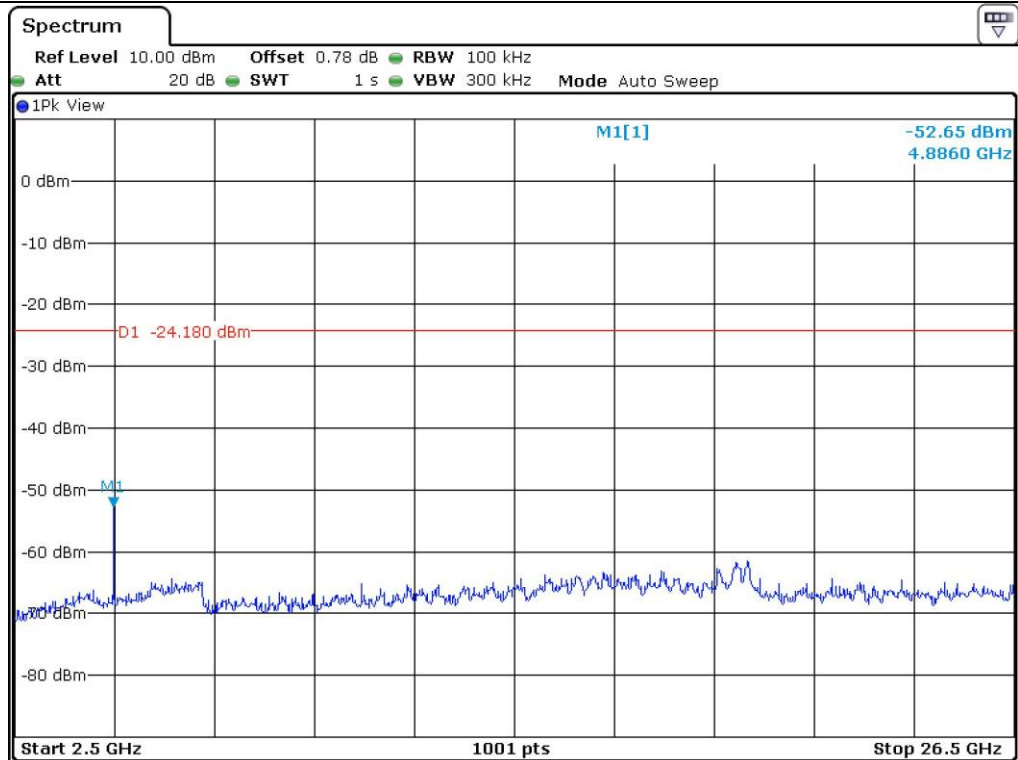
Low Channel



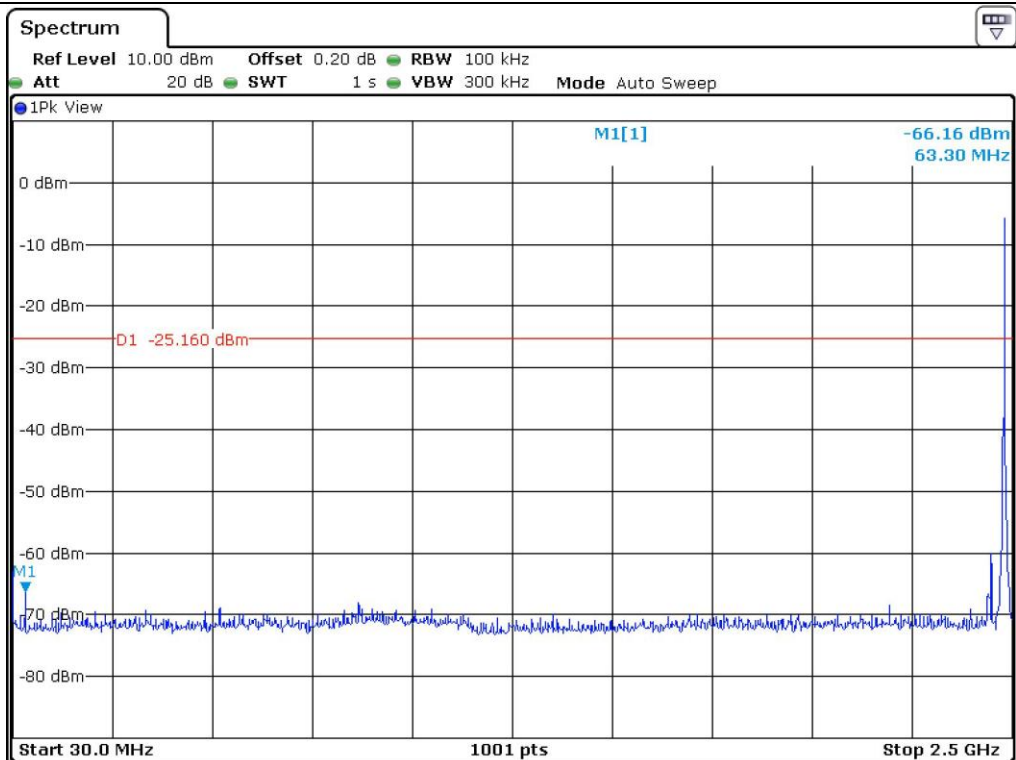
Low Channel



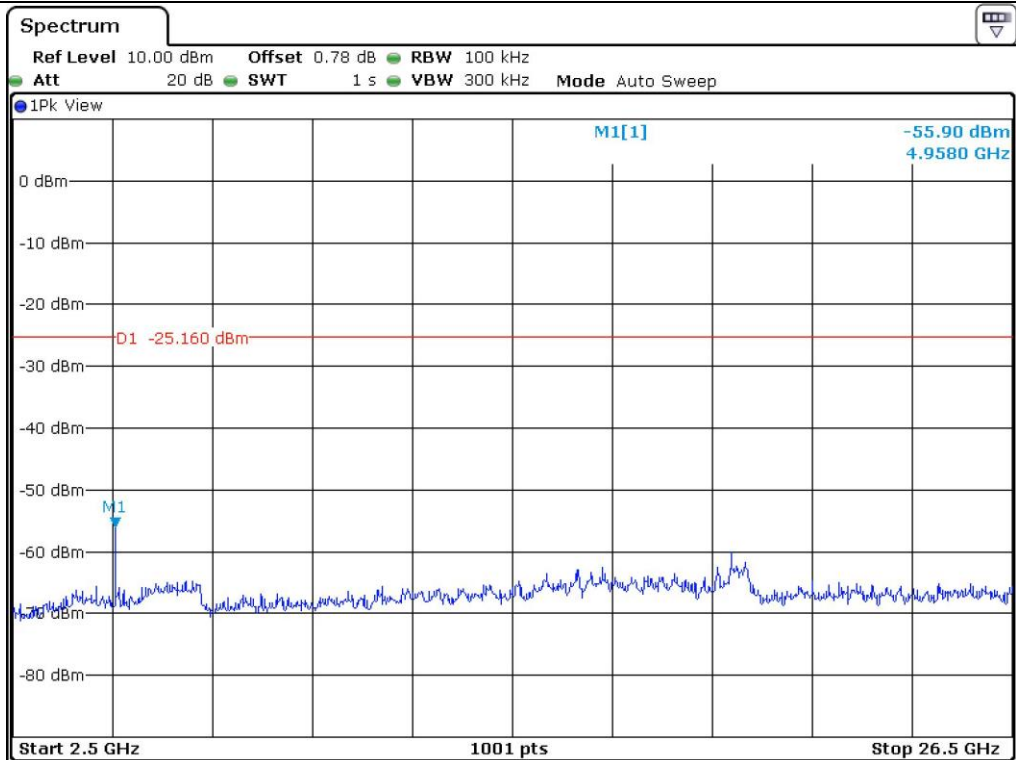
Middle Channel



Middle Channel



High Channel



High Channel

## 9.6 Test data for radiated emission

### 9.6.1 Radiated Emission which fall in the Restricted Band

- Test Date : February 05, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Measurement distance : 3 m
- Result : PASSED

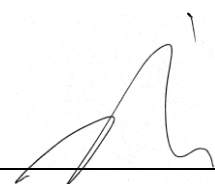
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 390.00	42.45	Peak	H	27.10	7.50	43.00	34.05	74.00	39.95
	26.00	Average	H				17.60	54.00	36.40
	44.30	Peak	V				35.90	74.00	38.10
	26.21	Average	V				17.81	54.00	36.19
Test Data for High Channel									
2 483.50	49.76	Peak	H	27.10	7.50	43.00	41.36	74.00	32.64
	28.45	Average	H				20.05	54.00	33.95
	52.39	Peak	V				43.99	74.00	30.01
	29.19	Average	V				20.79	54.00	33.21

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain

  
**Tested by: Jun-Hui, Lee / Senior Engineer**

## 9.6.2 Spurious & Harmonic Radiated Emission

- Test Date : February 05, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,  
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

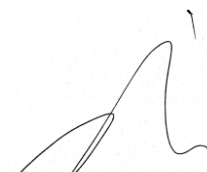
Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 804.00	43.63	Peak	H	30.60	11.10	42.50	42.83	74.00	31.17
	27.50	Average	H				26.70	54.00	27.30
	48.19	Peak	V				47.39	74.00	26.61
	28.08	Average	V				27.28	54.00	26.72
Test Data for Middle Channel									
4 880.00	42.76	Peak	H	30.70	11.20	42.50	42.16	74.00	31.84
	27.31	Average	H				26.71	54.00	27.29
	47.52	Peak	V				46.92	74.00	27.08
	27.44	Average	V				26.84	54.00	27.16
Test Data for High Channel									
4 960.00	42.12	Peak	H	30.80	11.30	42.50	41.72	74.00	32.28
	27.32	Average	H				26.92	54.00	27.08
	47.44	Peak	V				47.04	74.00	26.96
	27.79	Average	V				27.39	54.00	26.61

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain

  
**Tested by: Jun-Hui, Lee / Senior Engineer**

## 10. PEAK POWER SPECTRAL DENSITY

### 10.1 Operating environment

Temperature : 20.1 °C  
Relative humidity : 57.4 % R.H.

### 10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ , the video bandwidth is set to 3 times the resolution bandwidth.



### 10.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ - FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 29, 2015 (1Y)

All test equipment used is calibrated on a regular basis.



#### 10.4 Test data

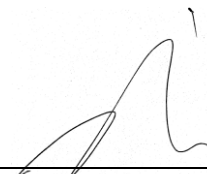
-. Test Date : January 28, 2016

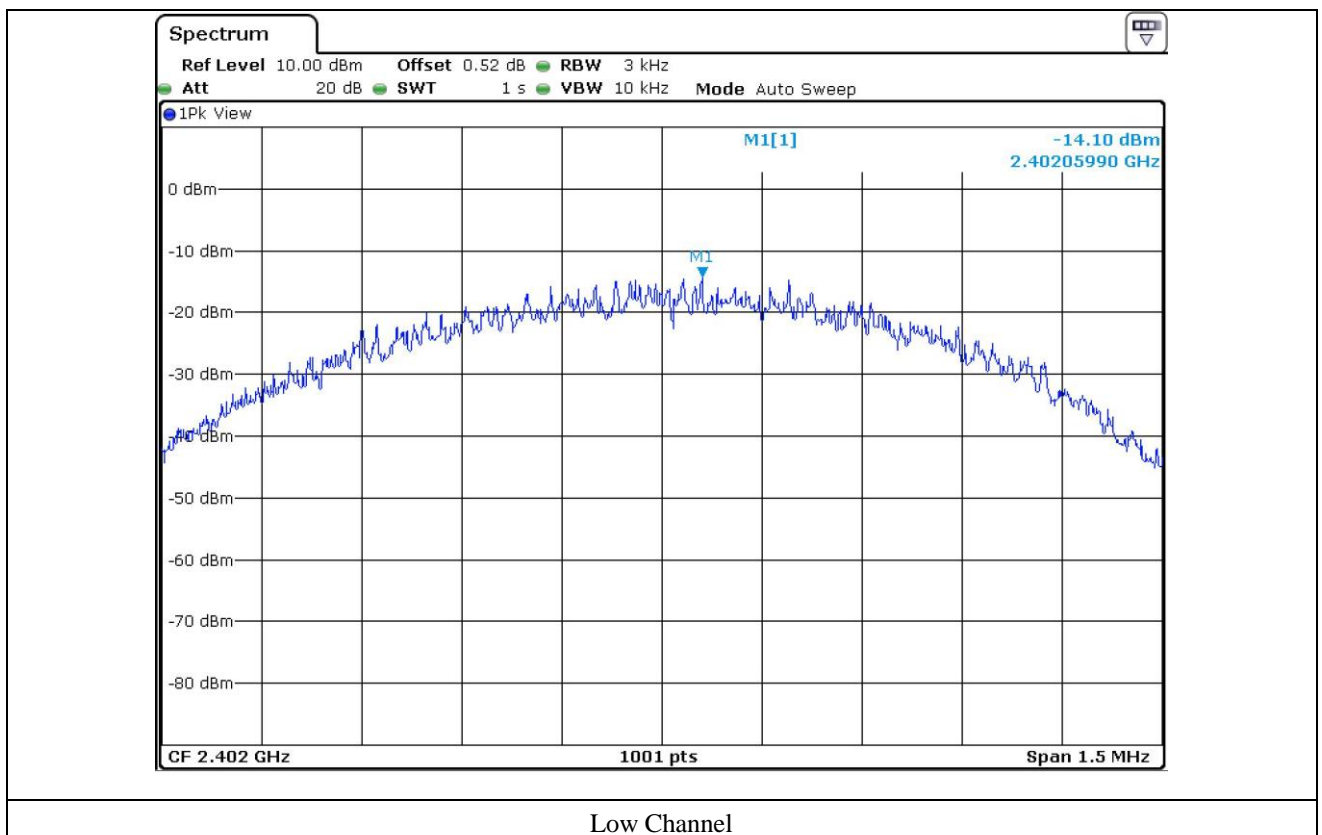
-. Test Result : Pass

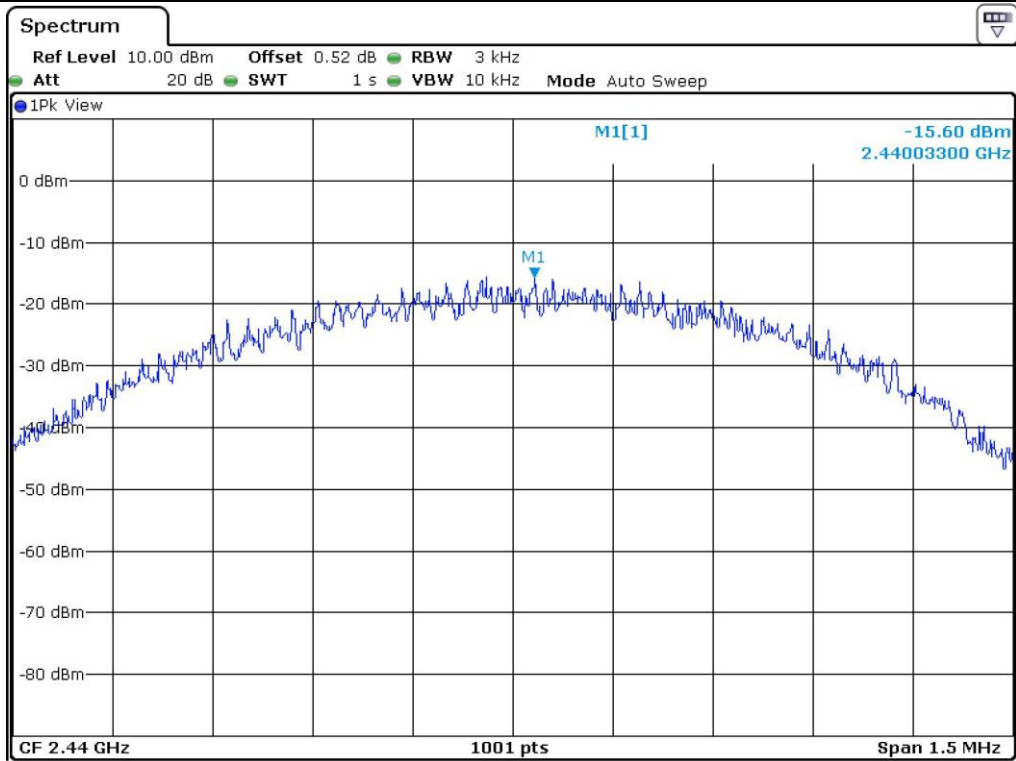
-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 402	-14.10	8.00	22.10
Middle	2 440	-15.60	8.00	23.60
High	2 480	-16.74	8.00	24.74

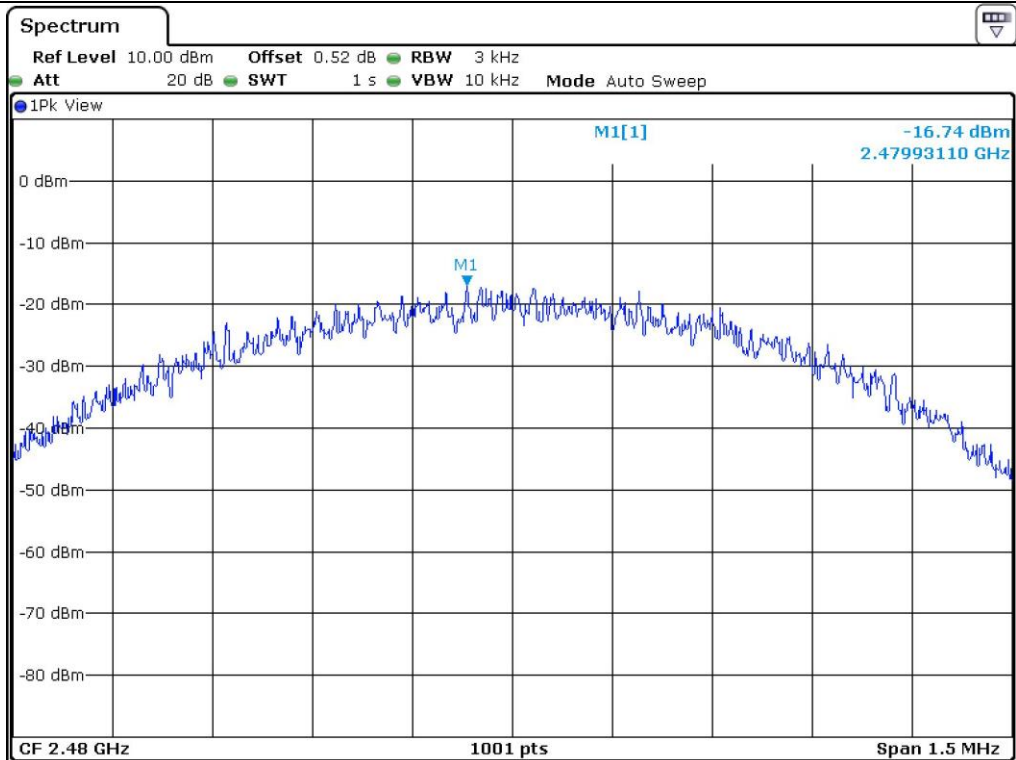
Remark. Margin = Limit – Measured value

  
 Tested by: Jun-Hui, Lee / Senior Engineer





Middle Channel



High Channel

## 11. RADIATED EMISSION TEST

### 11.1 Operating environment

Temperature : 23.0 °C  
Relative humidity : (51 ~ 52) % R.H.

### 11.2 Test set-up

The radiated emissions measurements were on the 3 m, Semi Anechoic Chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

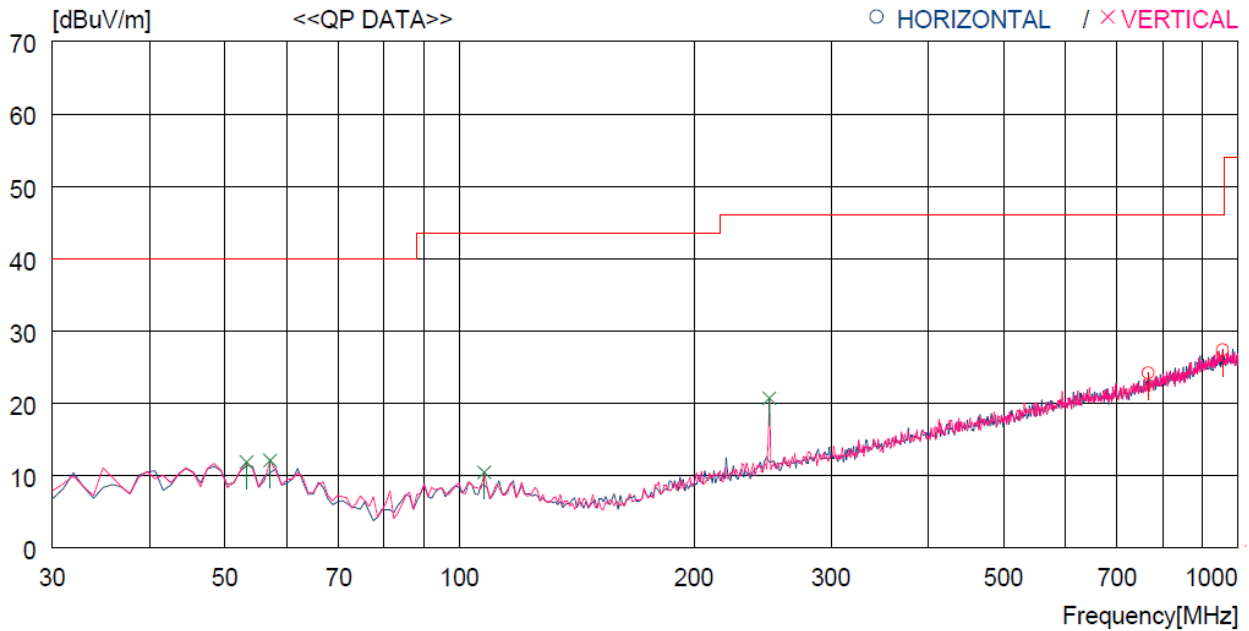
### 11.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
□ -	ESCI	Rohde & Schwarz	EMI Test Receiver	101012	Nov. 02, 2015 (1Y)
■ -	ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 29, 2015 (1Y)
□ -	8564E	HP	Spectrum Analyzer	3650A00756	Apr. 28, 2015 (1Y)
□ -	FSP	Rohde & Schwarz	Spectrum Analyzer	100017	Oct. 07, 2015 (1Y)
■ -	310N	Sonoma Instrument	AMPLIFIER	312544	Apr. 29, 2015 (1Y)
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101372	Apr. 29, 2015 (1Y)
■ -	SCU-18	Rohde & Schwarz	PRE-AMPLIFIER	10041	Nov. 03, 2015 (1Y)
■ -	MA240	HD GmbH	Antenna Master	N/A	N/A
■ -	HD100	HD GmbH	Position Controller	N/A	N/A
■ -	DS420S	HD GmbH	Turn Table	N/A	N/A
■ -	HFH2-Z2	Rohde & Schwarz	Loop Antenna	879 285/26	Dec. 09, 2014 (2Y)
■ -	VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-255	May 02, 2014 (2Y)
■ -	BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Aug. 31, 2015 (2Y)
■ -	BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Aug. 31, 2015 (2Y)
■ -	83051A	Agilent	Microwave System Preamplifier	3950M00201	Apr. 30, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

#### 11.4 Test data for 30 MHz ~ 1 GHz

- Test Date : February 05, 2016
- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	767.193	29.7	20.4	7.7	33.6	24.2	46.0	21.8	100	164
2	955.367	28.4	22.5	8.7	32.2	27.4	46.0	18.6	100	0
----- Vertical -----										
3	53.280	29.2	13.6	2.1	33.0	11.9	40.0	28.1	100	218
4	57.160	29.6	13.4	2.1	33.0	12.1	40.0	27.9	400	0
5	107.600	29.7	11.3	2.8	33.3	10.5	43.5	33.0	200	0
6	250.190	36.9	12.4	4.2	32.8	20.7	46.0	25.3	100	359

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### 11.5 Test data for Below 30 MHz

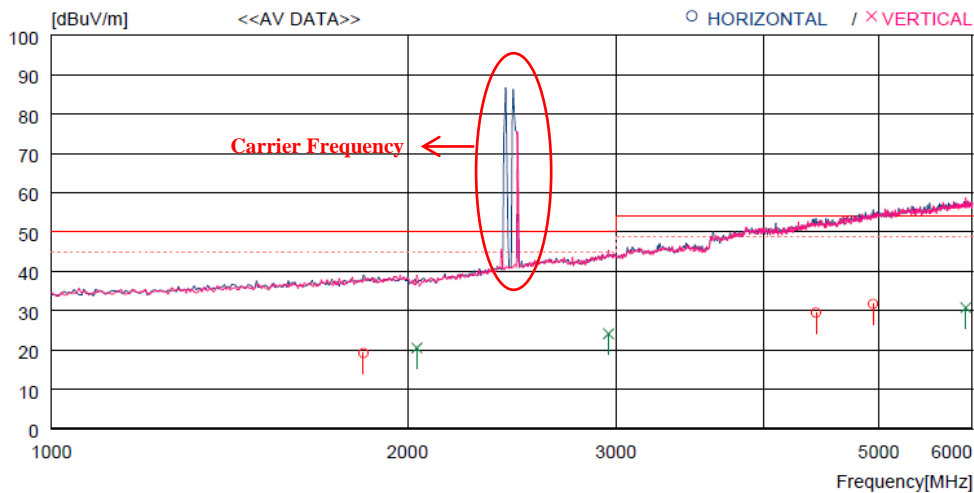
- . Test Date : February 05, 2016
- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dB $\mu$ V)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)
Any emissions were not observed from the EUT.								

## 11.6 Test data for above 1 GHz

- Test Date : February 05, 2016
- Resolution bandwidth : 1 MHz
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Detector Mode : Average

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Any emissions except fundamental signal were not observed from the EUT.								



No.	FREQ [MHz]	READING AV [dBμV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1835.000	27.5	25.4	6.8	40.5	19.2	50.0	30.8	100	215
2	4425.000	29.3	30.1	11.0	40.9	29.5	54.0	24.5	100	207
3	4945.000	30.3	30.8	11.8	41.2	31.7	54.0	22.3	100	359
----- Vertical -----										
4	5920.000	26.9	32.2	12.8	41.1	30.8	54.0	23.2	100	359
5	2035.000	28.4	25.6	7.2	40.7	20.5	50.0	29.5	100	328
6	2955.000	28.1	28.1	8.6	40.7	24.1	50.0	25.9	100	359

Tested by: Jun-Hui, Lee / Senior Engineer