

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

Test Report No. : W165R-D045
AGR No. : A164A-251
Applicant : LG Innotek Co., Ltd.
Address : 26, Hanamsandan 5beon-ro Gwangsan-gu, 506-731, Gwangju, Korea
Manufacturer : SUZHOU NIHONE Electronics Technology Co., LTD.
Address : No.185 XiaoXiang Road Suzhou High tech Zone
Type of Equipment : Electronic Shelf Label
FCC ID. : YZP-REPETZ29A
Model Name : REPE-TZ29A
Multiple Model Name : REPE-TZ29B, REPE-MZ29A, REPE-MZ29B
Serial number : N/A
Total page of Report : 32 pages (including this page)
Date of Incoming : May 03, 2016
Date of issue : May 18, 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: 

 Ki-Hong, Nam / Asst, 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
W165R-D045	May 18, 2016	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : LG Innotek Co., Ltd.
 Address : 26, Hanamsandan 5beon-ro Gwangsan-gu, 506-731, Gwangju, Korea
 Contact Person : Jeong, Inchang / Director
 Telephone No. : +86-62-950-0332
 FCC ID : YZP-REPETZ29A
 Model Name : REPE-TZ29A
 Serial Number : N/A
 Date : May 18, 2016

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Electronic Shelf Label
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: This 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 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, 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# 3736-3

-. 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 LG Innotek Co., Ltd., Model REPE-TZ29A (referred to as the EUT in this report) is a Electronic Shelf Label. The product specification described herein was obtained from product data sheet or user’s manual.

Device Type	Electronic Shelf Label
Temperature Range	0 °C ~ +40 °C
Operating Frequency	2 405 MHz ~ 2 480 MHz
RF Output Power	4.54 dBm
Number of Channel	16 Channel
Modulation Type	O-QPSK
Antenna Type	PCB Pattern Antenna
USED RF CHIP	Marker: TEXAS INSTRUMENTS Model Name: CC2530
Antenna Gain	3.33 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	16 MHz
RATED SUPPLY VOLTAGE	3.0 V Battery

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

-. The following lists consist of the added model and their differences.

Model Name	Differences	Tested
REPE-TZ29A	Basic Model. (DISPLAY: COLOR, CASE COLOR: WHITE)	<input checked="" type="checkbox"/>
REPE-TZ29B	These models are identical to basic model except for the case color. (DISPLAY: COLOR, CASE COLOR: BLACK)	<input type="checkbox"/>
REPE-MZ29A	These models are identical to basic model except for the DISPLAY and case color. (DISPLAY: MONO, CASE COLOR: WHITE)	<input type="checkbox"/>
REPE-MZ29B	These models are identical to basic model except for the DISPLAY and case color. (DISPLAY: MONO, CASE COLOR: BLACK)	<input type="checkbox"/>

Note: 1. Applicant consigns only basic model to test. Therefore this test report just guarantees the units, which have been tested.

2. The Applicant/manufacturer is responsible for the compliance of all variants.

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	SUZHOU NIHONE Electronics Technology Co., LTD.	PI TAG 2.9" Rev 0.2	N/A
DISPLAY	WUXI VISION PEAK TECHNOLOGY	N/A	N/A

5.2 Peripheral equipment

Model	Manufacturer	Description	Connected to
REPE-TZ29A	SUZHOU NIHONE Electronics Technology Co., LTD.	Electronic Shelf Label (EUT)	PSU
PSU	LG Innotek Co., Ltd.	PSU	EUT
N/A	N/A	Alkaline Battery(LR14)	PSU

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 2 405 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 meter 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 pattern 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)
TX mode	X

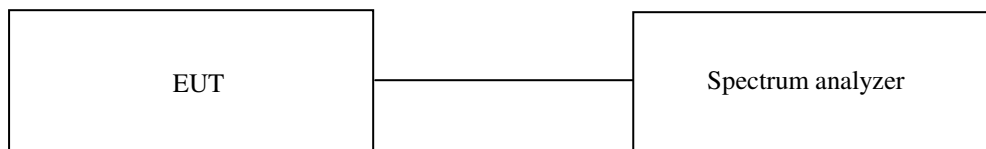
7. MIMIMUM 6 dB BANDWIDTH

7.1 Operating environment

Temperature : 23.2 °C
 Relative humidity : 42.5 % 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.
■ - FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jul. 22, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

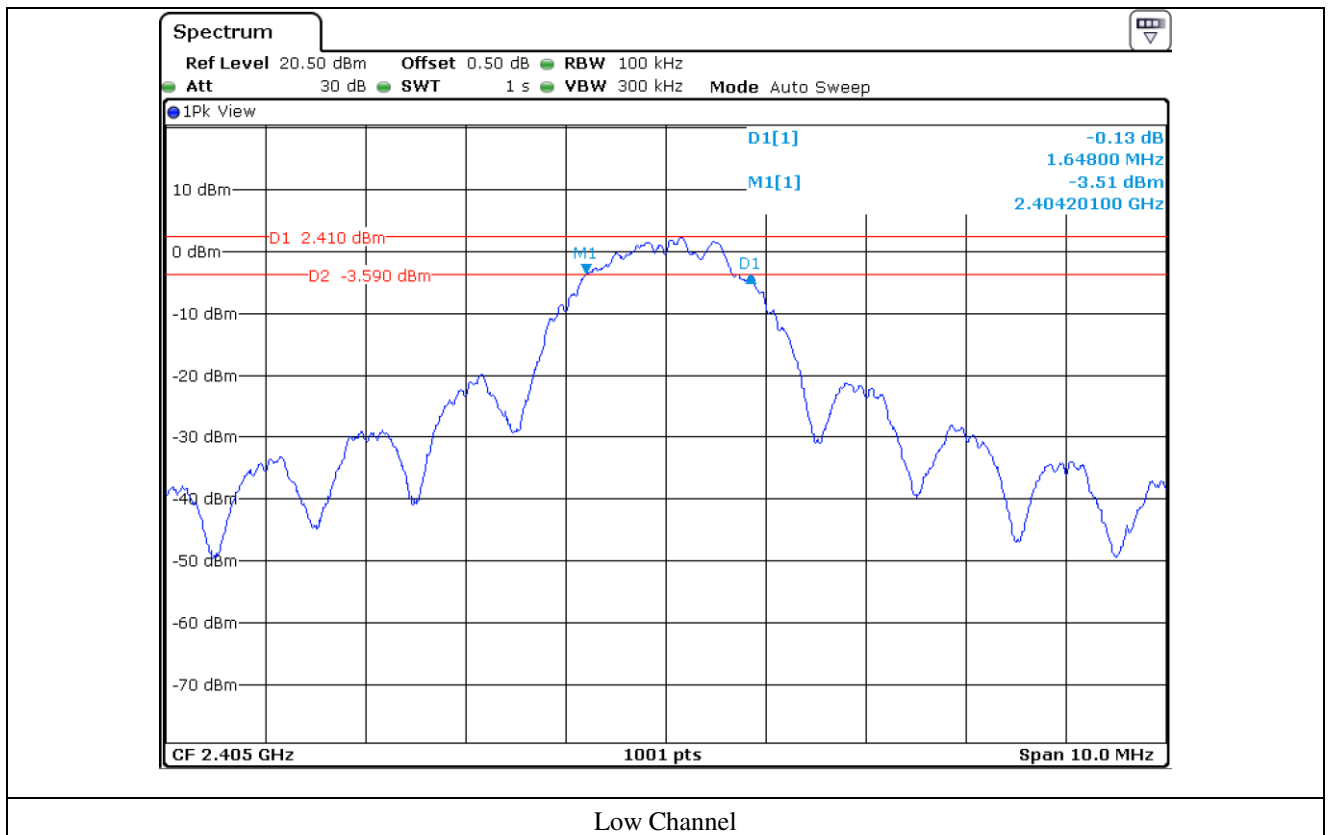
7.4 Test data

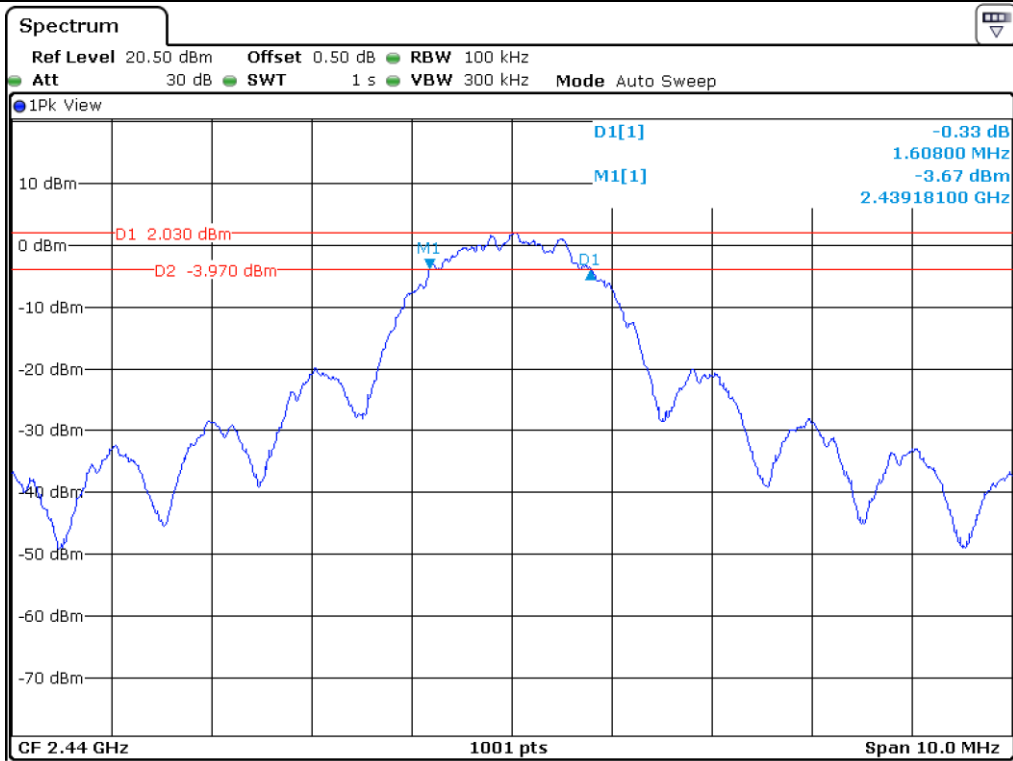
- Test Date : May 13, 2016
- Test Result : Pass

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (MHz)	LIMIT (MHz)	MARGIN (MHz)
Low	2 405	1.65	0.5	1.15
Middle	2 440	1.61	0.5	1.11
High	2 480	1.64	0.5	1.14

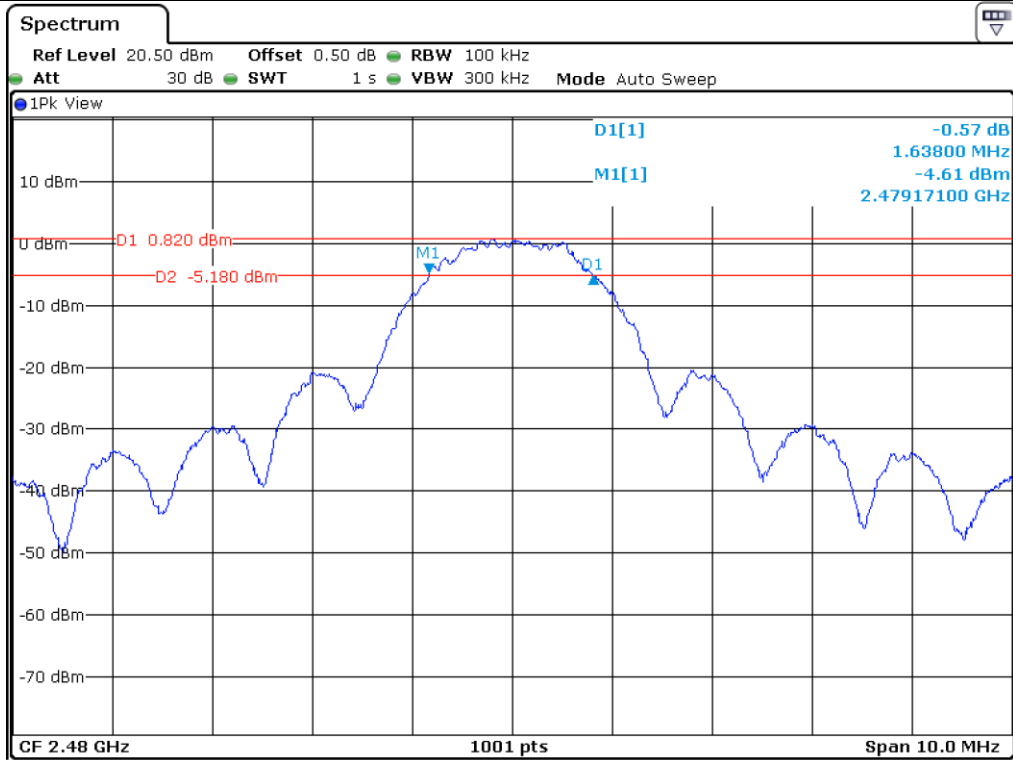
Remark. Margin = Measured Value - Limit

Tested by: Tae-Ho, Kim / Senior Engineer





Middle Channel



High Channel

8. MAXIMUM PEAK OUTPUT POWER

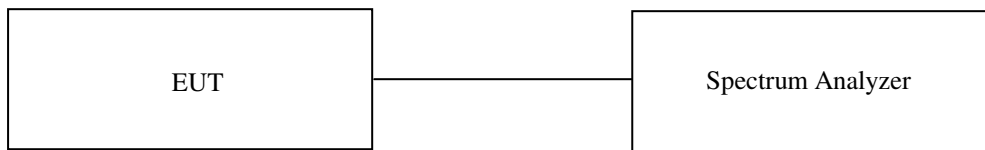
8.1 Operating environment

Temperature : 23.2 °C
 Relative humidity : 42.5 % 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.
■ - FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jul. 22, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

8.4 Test data

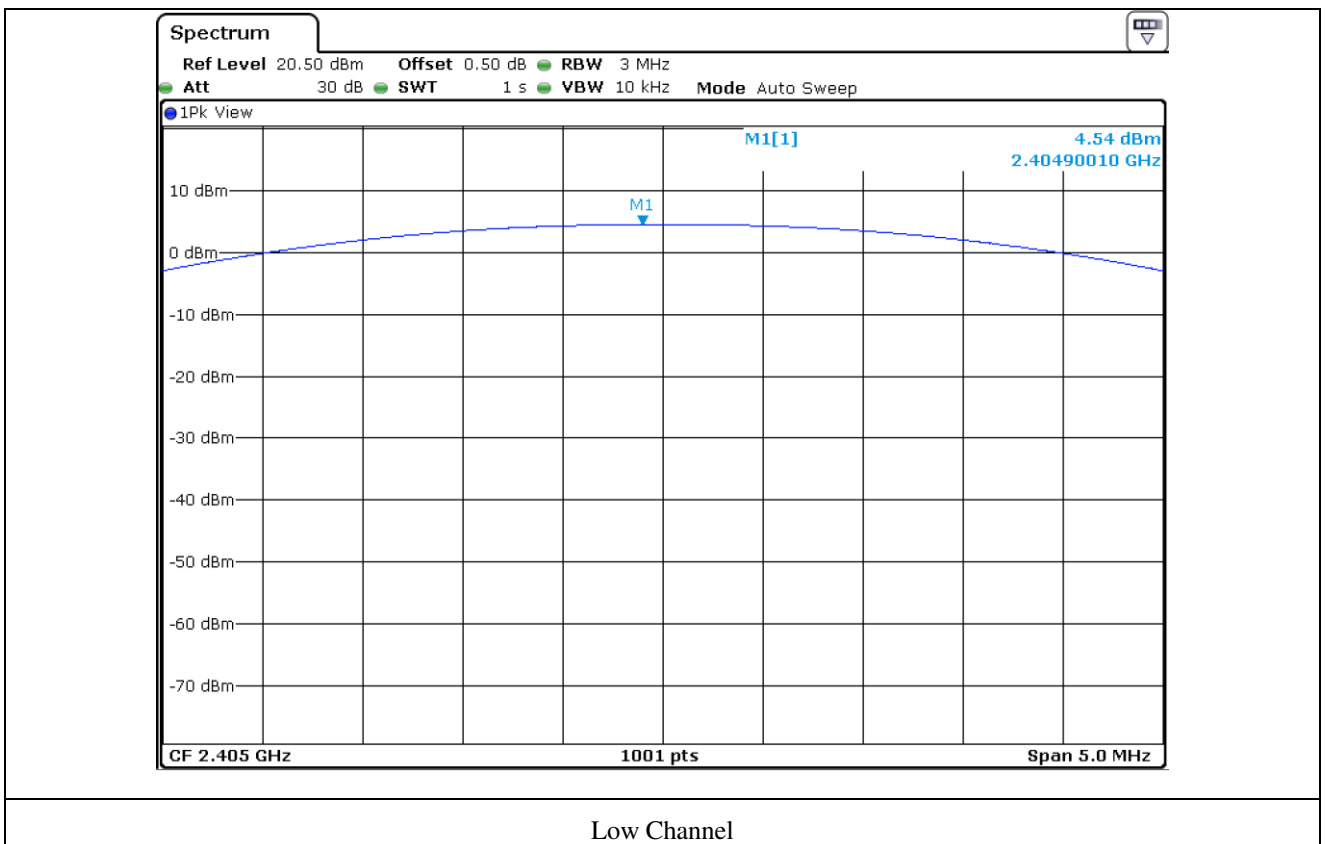
- Test Date : May 13, 2016
- Test Result : Pass

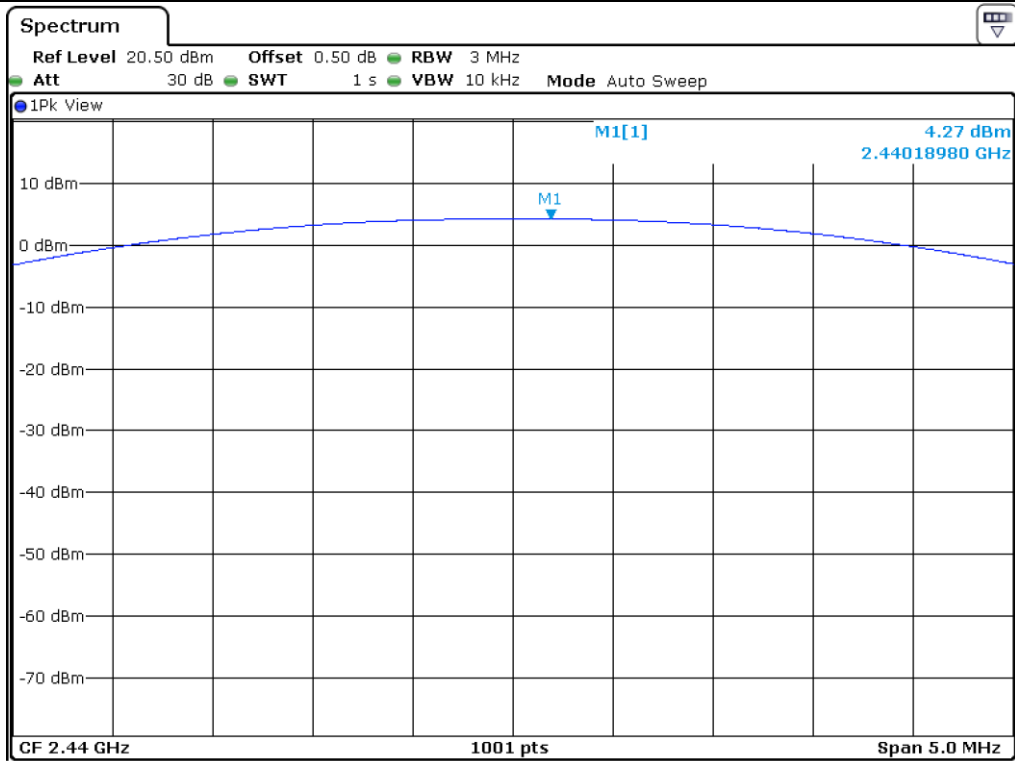
CHANNEL	FREQUENCY (MHz)	DTS (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2405	1.65	4.54	30	25.46
MIDDLE	2440	1.61	4.27	30	25.73
HIGH	2480	1.64	4.32	30	25.68

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

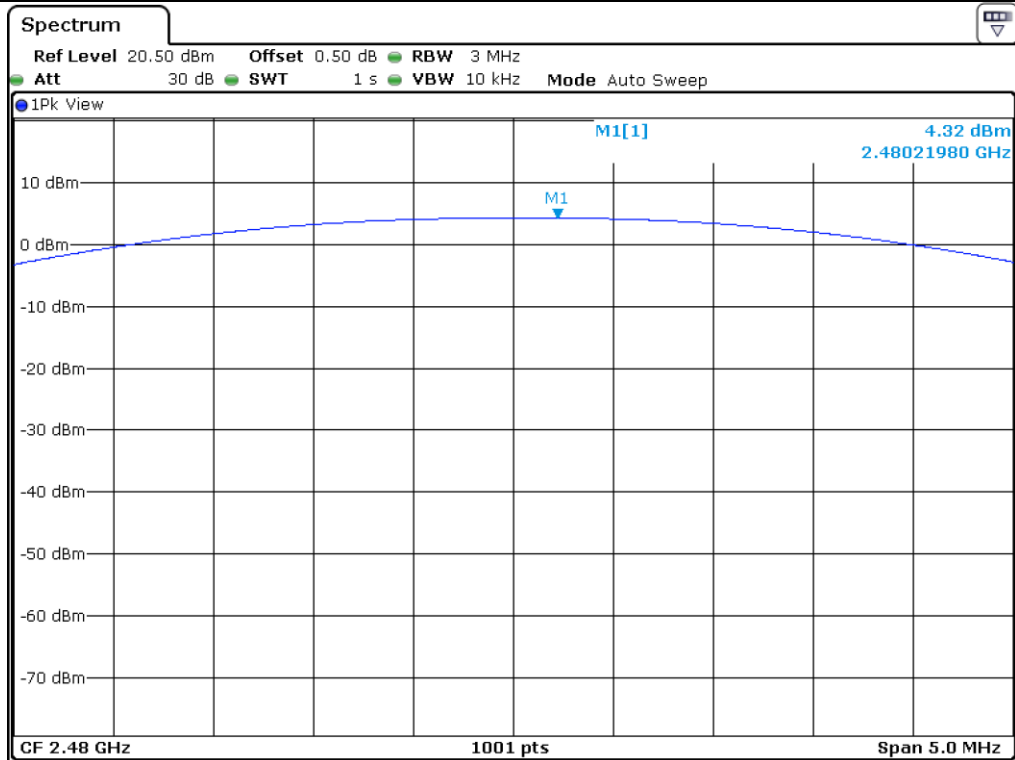


Tested by: Tae-Ho, Kim / Senior Engineer





Middle Channel



High Channel

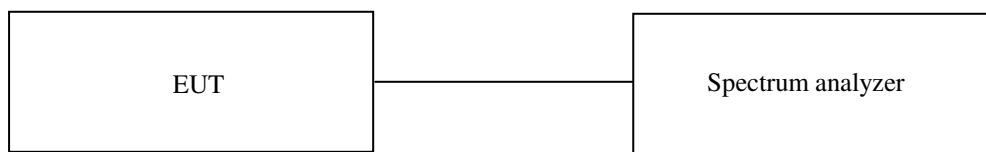
9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

9.1 Operating environment

Temperature : 23.2 °C
 Relative humidity : 42.5 % 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 performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

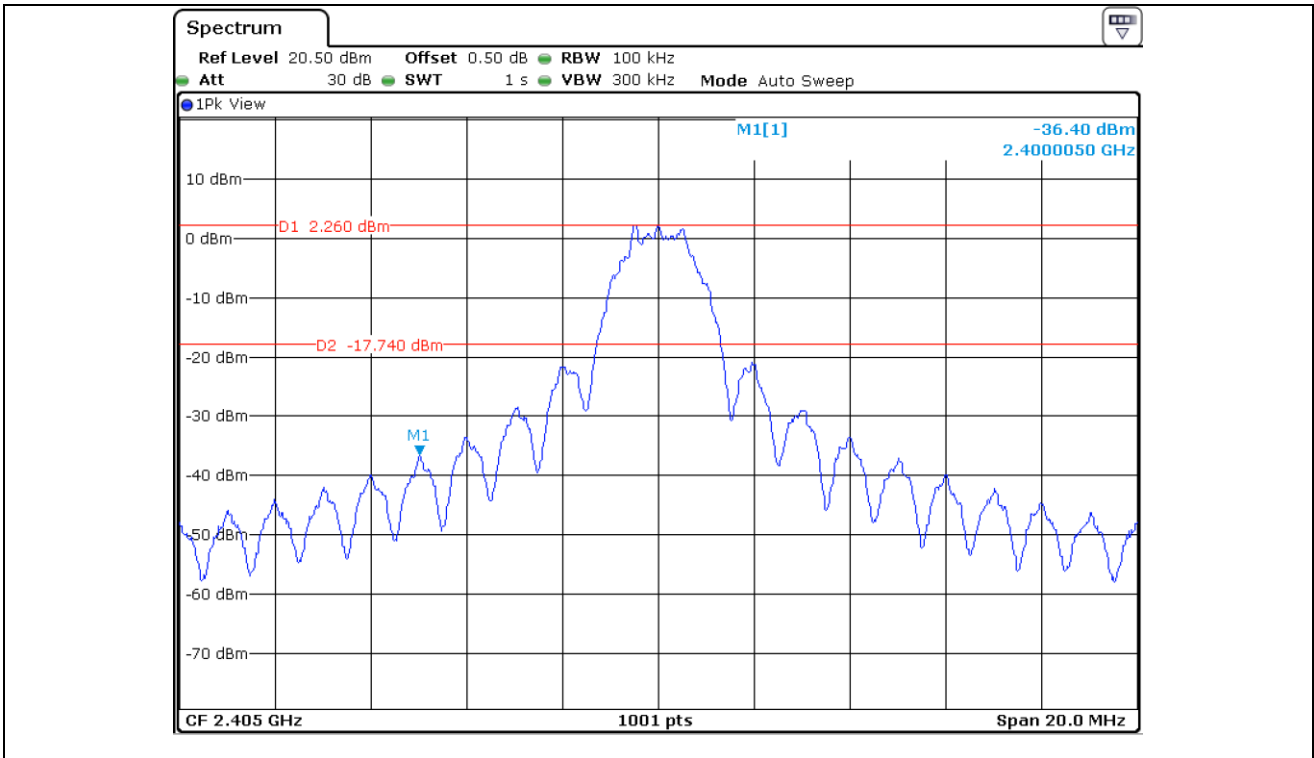
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal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

9.4 Test equipment used

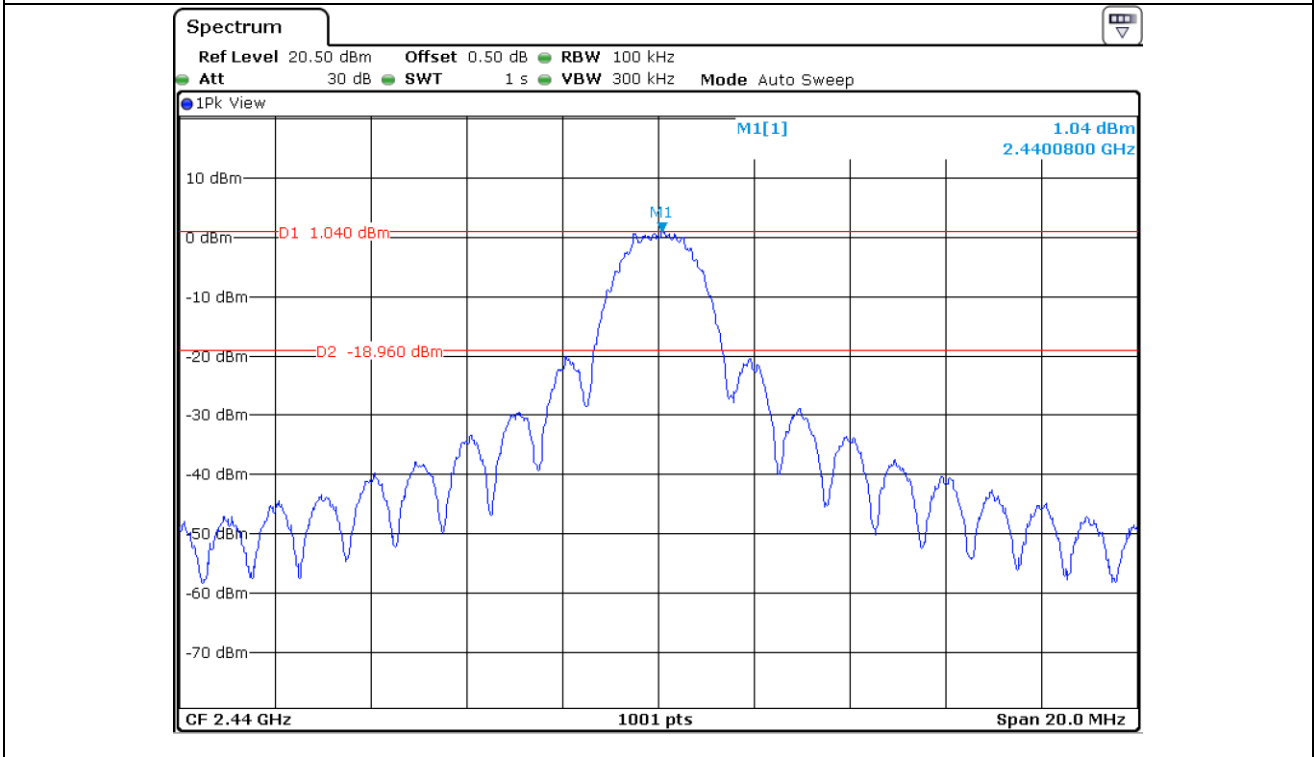
Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
■ - FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jul. 22, 2015 (1Y)
■ - ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 29, 2016 (1Y)
■ - 310N	Sonoma Instrument	Pre-Amplifier	312544	Apr. 05, 2016 (1Y)
■ - SCU-18	Rohde & Schwarz	Pre-Amplifier	10041	Nov. 23, 2015 (1Y)
■ - DT3000	Innco System	Turn Table	930611	N/A
■ - MA4000-EP	Innco System	Antenna Master	3320611	N/A
■ - VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-421	Jul. 10, 2014 (2Y)
■ - BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Aug. 31, 2015 (2Y)
■ - BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Apr. 31, 2015 (2Y)

All test equipment used is calibrated on a regular basis.

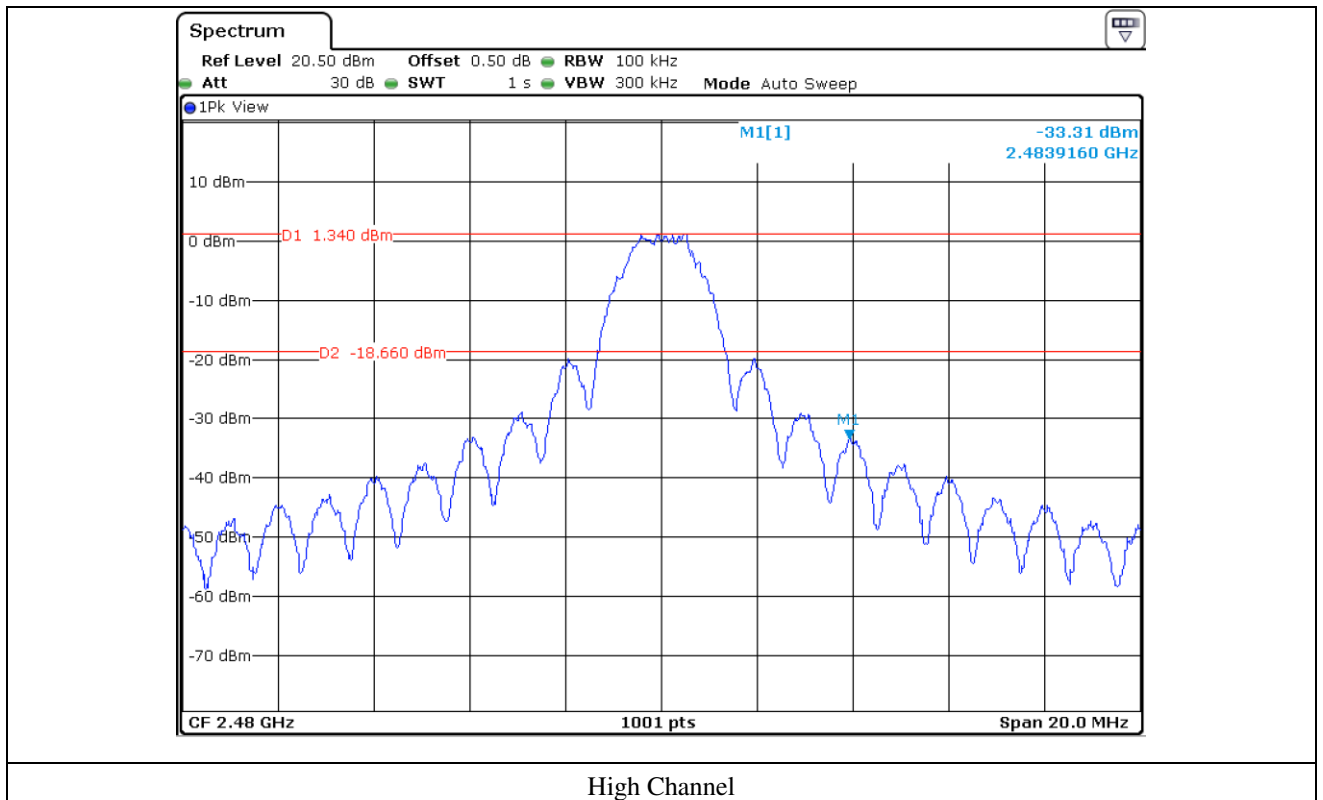
9.5 Test data for conducted emission

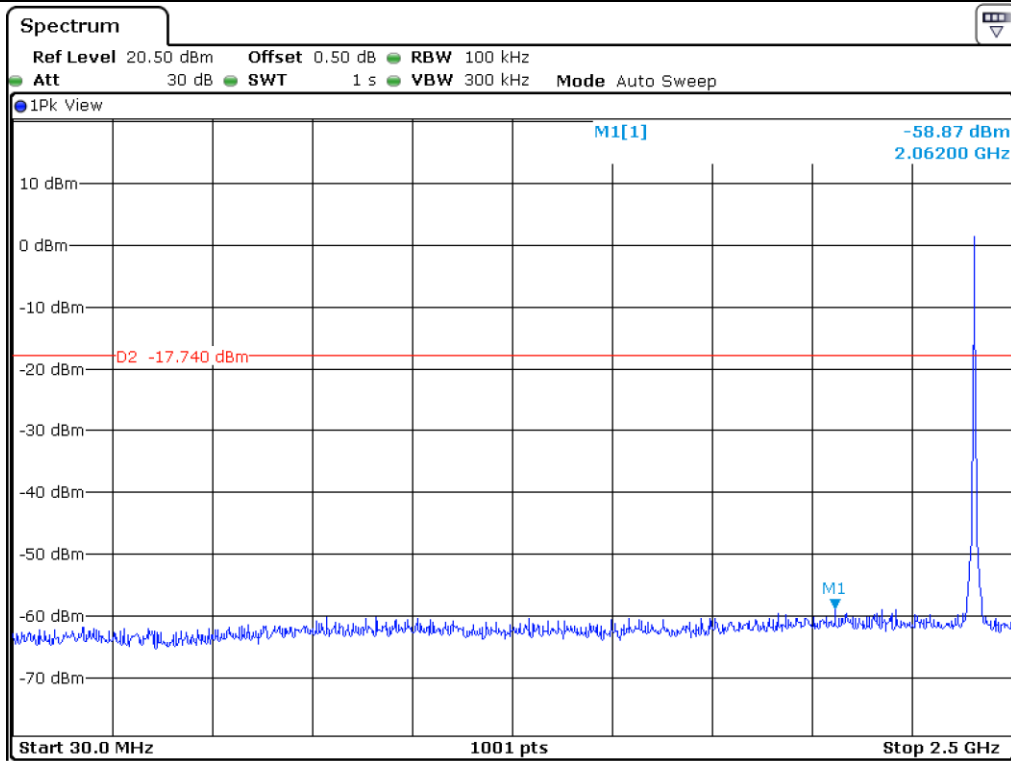


Low Channel

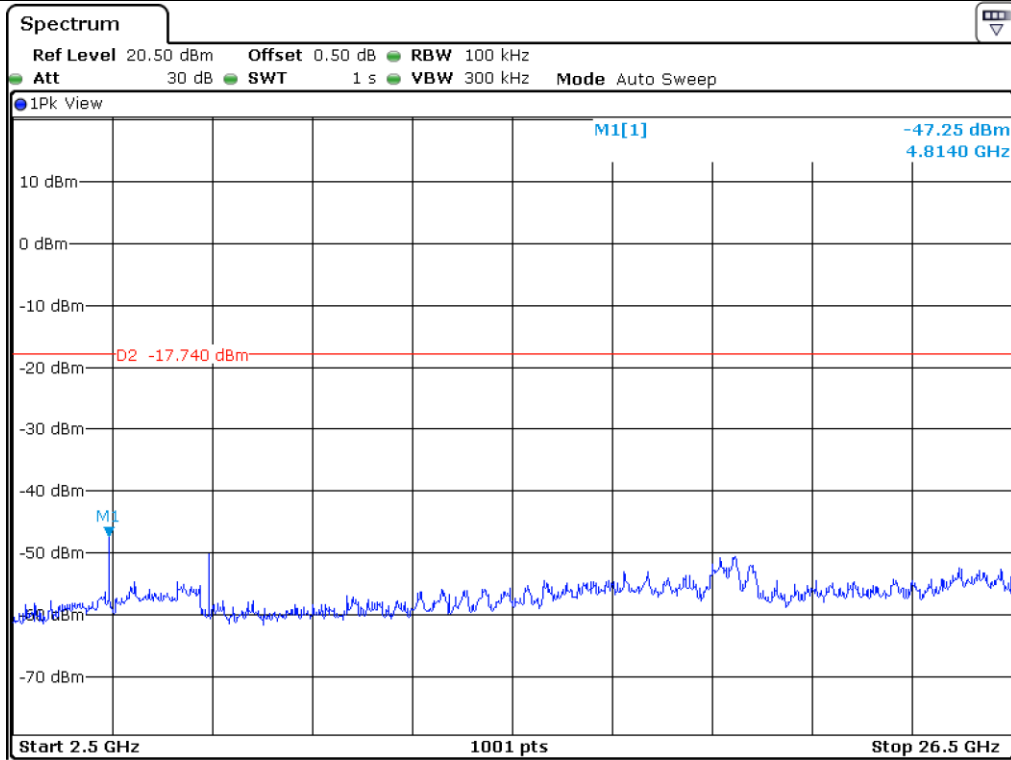


Middle Channel

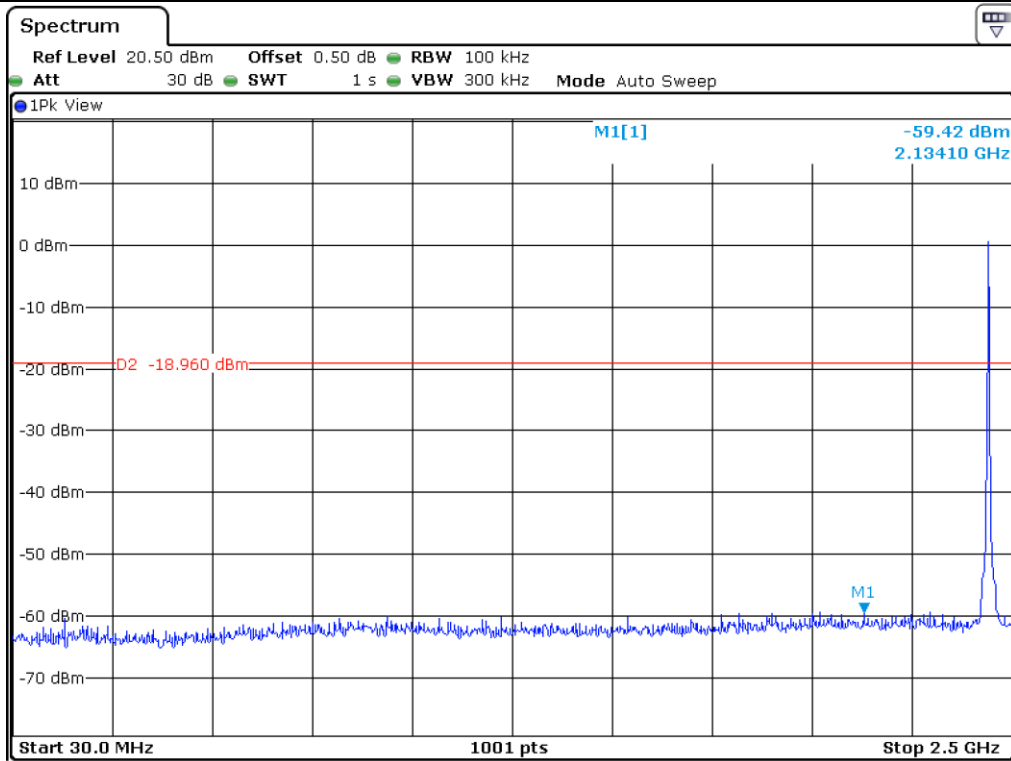




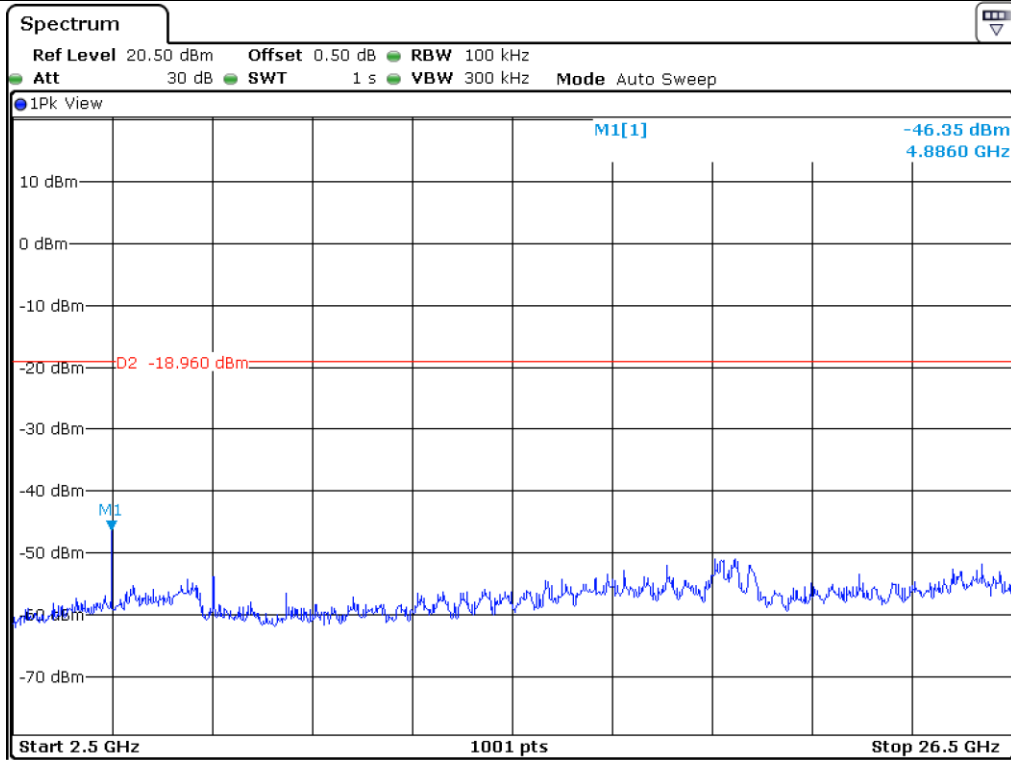
Low Channel



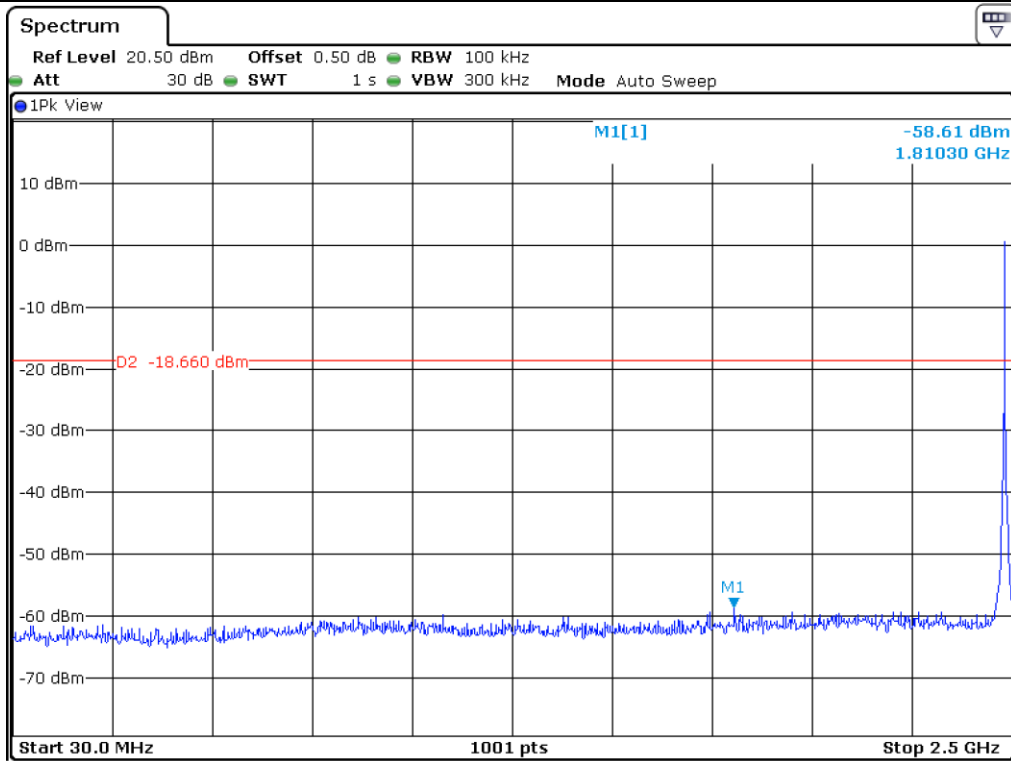
Low Channel



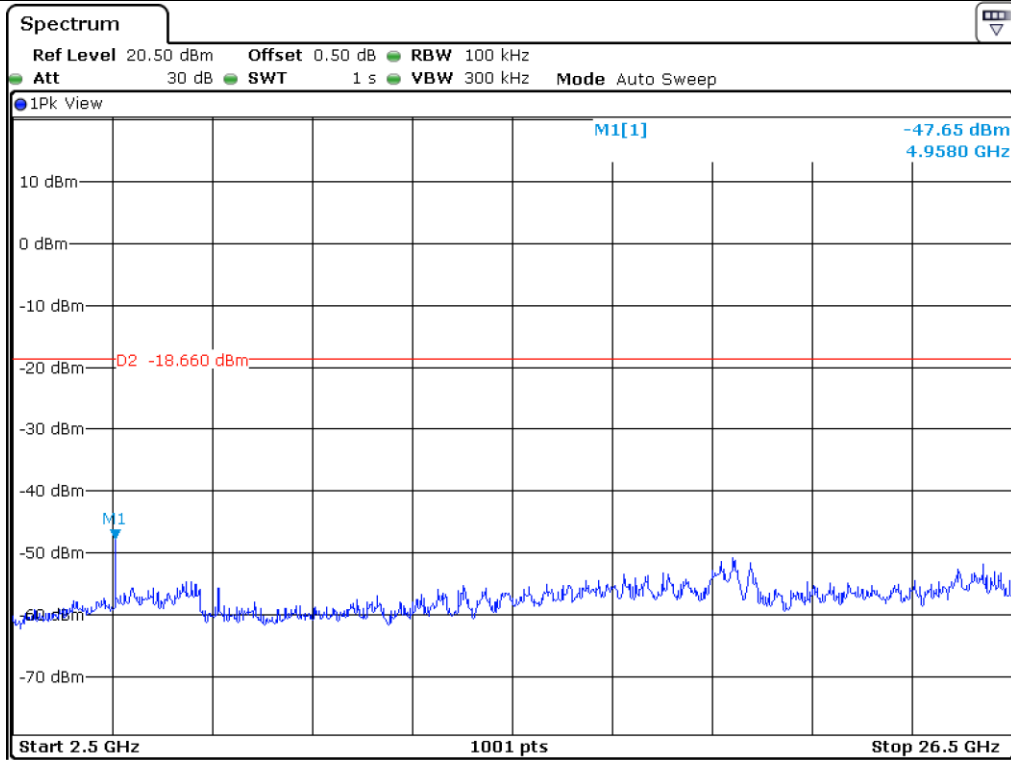
Middle Channel



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 : May 09, 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 (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									
2.390 000	47.35	Peak	H	27.20	7.10	43.10	38.55	74.00	35.45
	38.94	Average	H				30.14	54.00	23.86
	45.74	Peak	V				36.94	74.00	37.06
	37.12	Average	V				28.32	54.00	25.68
Test Data for Low Channel									
2.400 000	57.78	Peak	H	27.20	7.10	43.10	48.98	74.00	25.02
	40.24	Average	H				31.44	54.00	22.56
	52.33	Peak	V				43.53	74.00	30.47
	43.14	Average	V				34.34	54.00	19.66
Test Data for High Channel									
2.483 500	62.73	Peak	H	27.40	7.10	43.10	54.13	74.00	19.87
	54.52	Average	H				45.92	54.00	8.08
	56.57	Peak	V				47.97	74.00	26.03
	48.31	Average	V				39.71	54.00	14.29

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Tae-Ho, Kim / Senior Engineer

9.6.2 Spurious & Harmonic Radiated Emission

- Test Date : May 09, 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									
4 810.00	54.07	Peak	H	31.10	9.60	42.40	52.37	73.98	21.61
	44.95	Average	H				43.25	53.98	10.73
	47.87	Peak	V				46.17	73.98	27.81
	38.56	Average	V				36.86	53.98	17.12
Test Data for Middle Channel									
4 880.00	53.74	Peak	H	31.30	9.80	42.40	52.44	73.98	21.54
	44.39	Average	H				43.09	53.98	10.89
	47.47	Peak	V				46.17	73.98	27.81
	38.34	Average	V				37.04	53.98	16.94
Test Data for High Channel									
4 960.00	53.58	Peak	H	31.30	9.90	42.30	52.48	73.98	21.50
	44.86	Average	H				43.76	53.98	10.22
	47.68	Peak	V				46.58	73.98	27.40
	38.44	Average	V				37.34	53.98	16.64

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Pre-Amplifier Gain}$$



Tested by: Tae-Ho, Kim / Senior Engineer

10. PEAK POWER SPECTRAL DENSITY

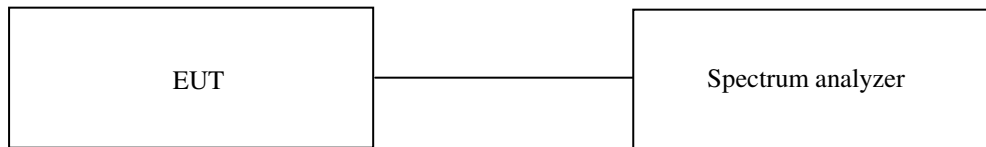
10.1 Operating environment

Temperature : 23.2 °C
 Relative humidity : 42.5 % 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.
■ - FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jul. 22, 2015 (1Y)

All test equipment used is calibrated on a regular basis.

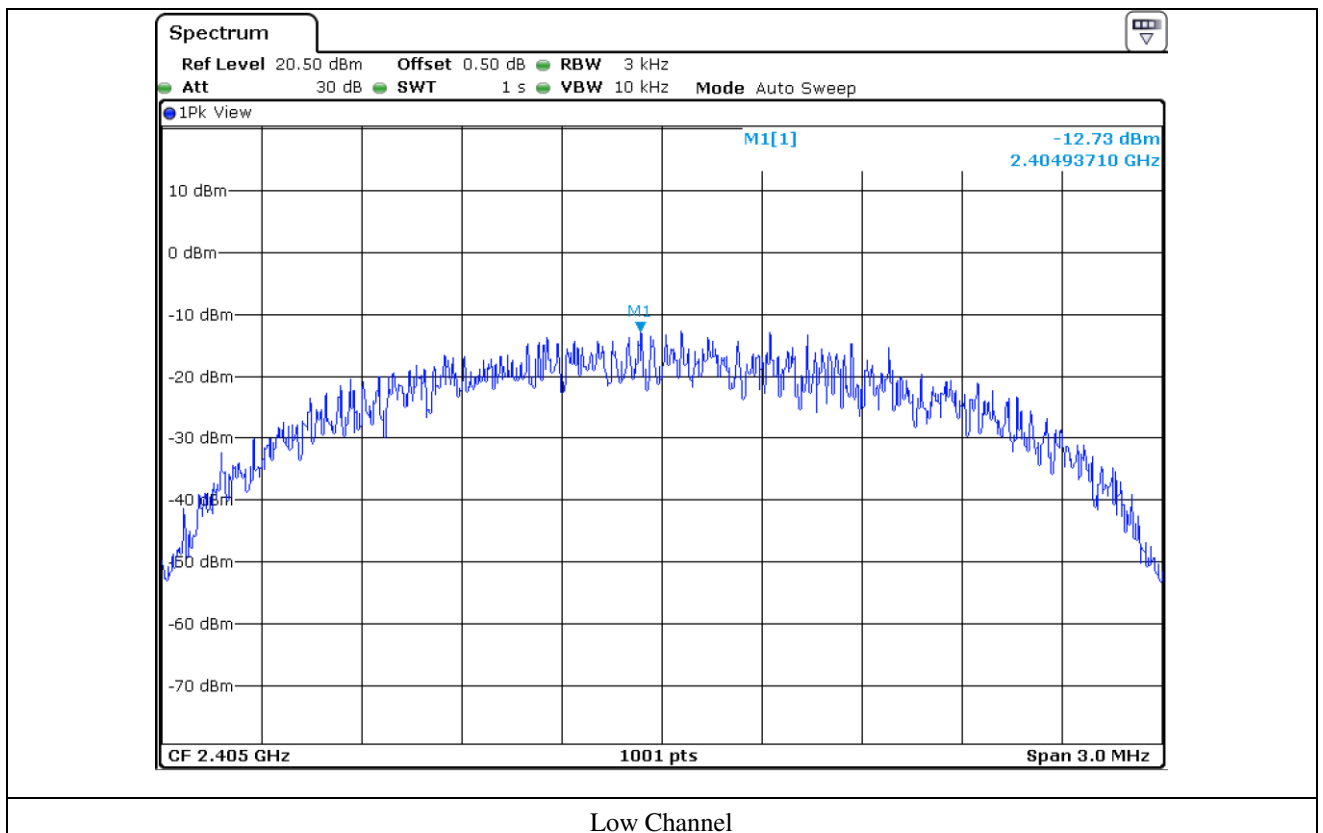
10.4 Test data

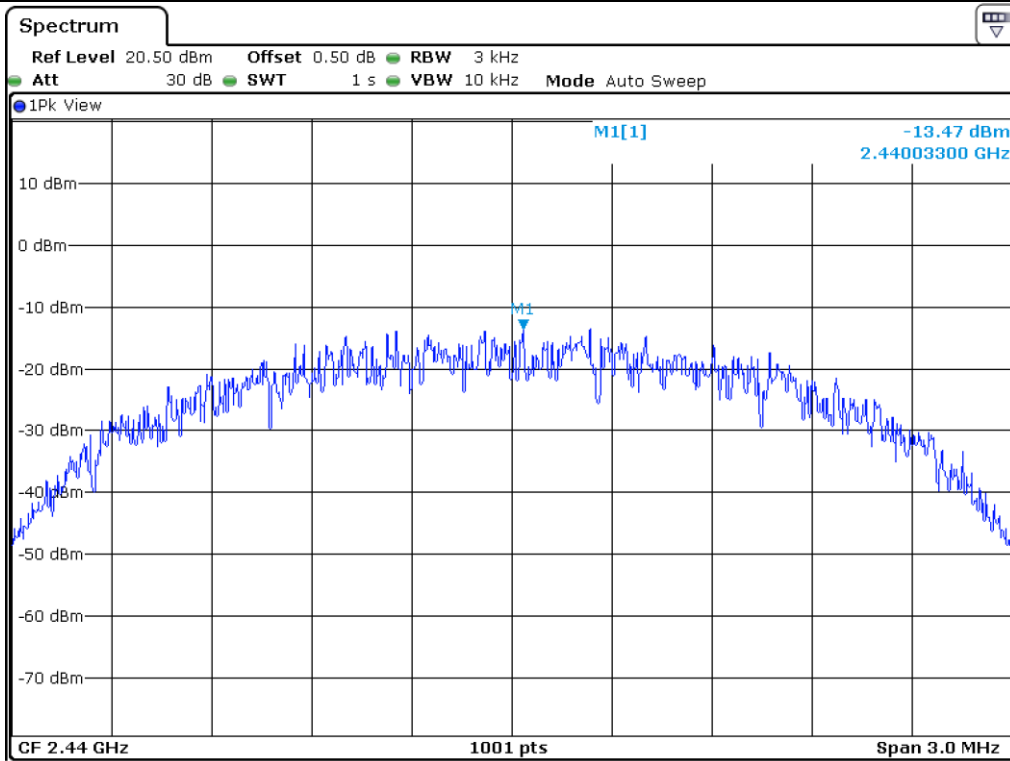
- Test Date : May 13, 2016
- Test Result : Pass
- Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 405	-12.73	8.00	-20.73
Middle	2 440	-13.47	8.00	-21.47
High	2 480	-13.30	8.00	-21.30

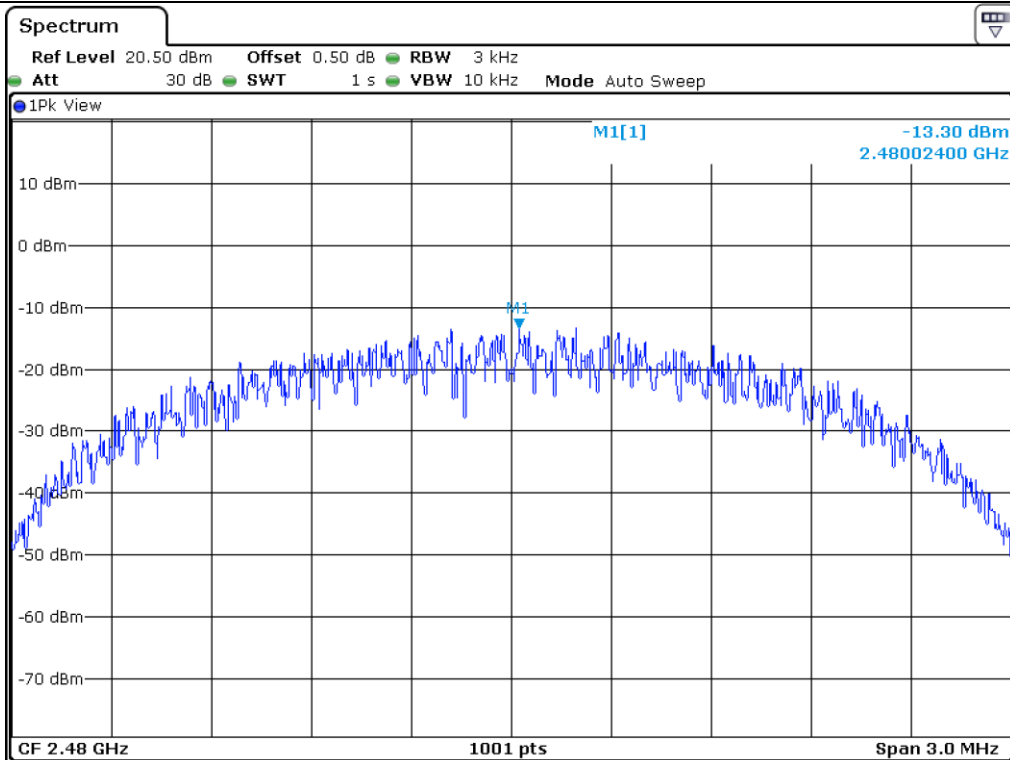
Remark. Margin = Limit – Measured value

Tested by: Tae-Ho, Kim / Senior Engineer





Middle Channel



High Channel

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 23.2 °C
 Relative humidity : 42.5 % 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

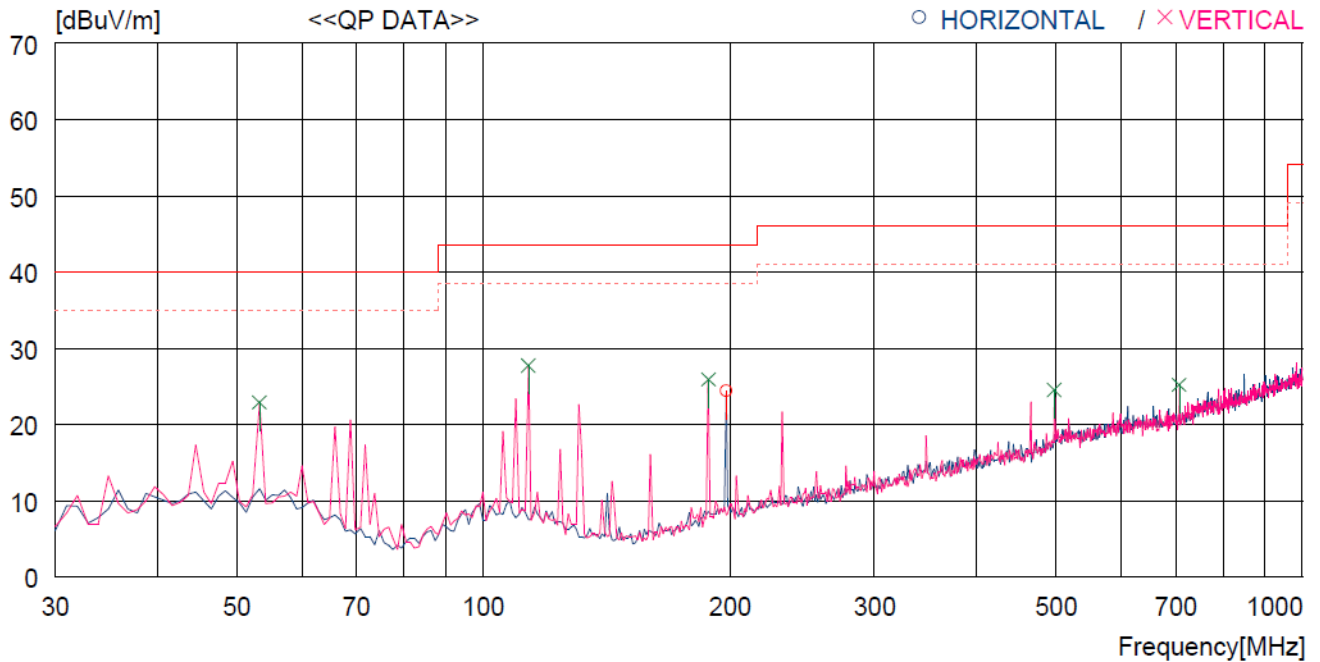
Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
■ - FSV40	Rohde & Schwarz	Signal Analyzer	101009	Jul. 22, 2015 (1Y)
■ - ESU	Rohde & Schwarz	EMI Test Receiver	100261	Apr. 29, 2016 (1Y)
■ - 310N	Sonoma Instrument	Pre-Amplifier	312544	Apr. 05, 2016 (1Y)
■ - SCU-18	Rohde & Schwarz	Pre-Amplifier	10041	Nov. 23, 2015 (1Y)
■ - DT3000	Innco System	Turn Table	930611	N/A
■ - MA4000-EP	Innco System	Antenna Master	3320611	N/A
■ - VULB9163	Schwarzbeck	TRILOG Broadband Antenna	9163-421	Jul. 10, 2014 (2Y)
■ - BBHA9120D	Schwarzbeck	Horn Antenna	BBHA9120D295	Aug. 31, 2015 (2Y)
■ - BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Apr. 31, 2015 (2Y)

All test equipment used is calibrated on a regular basis.

11.4 Test data

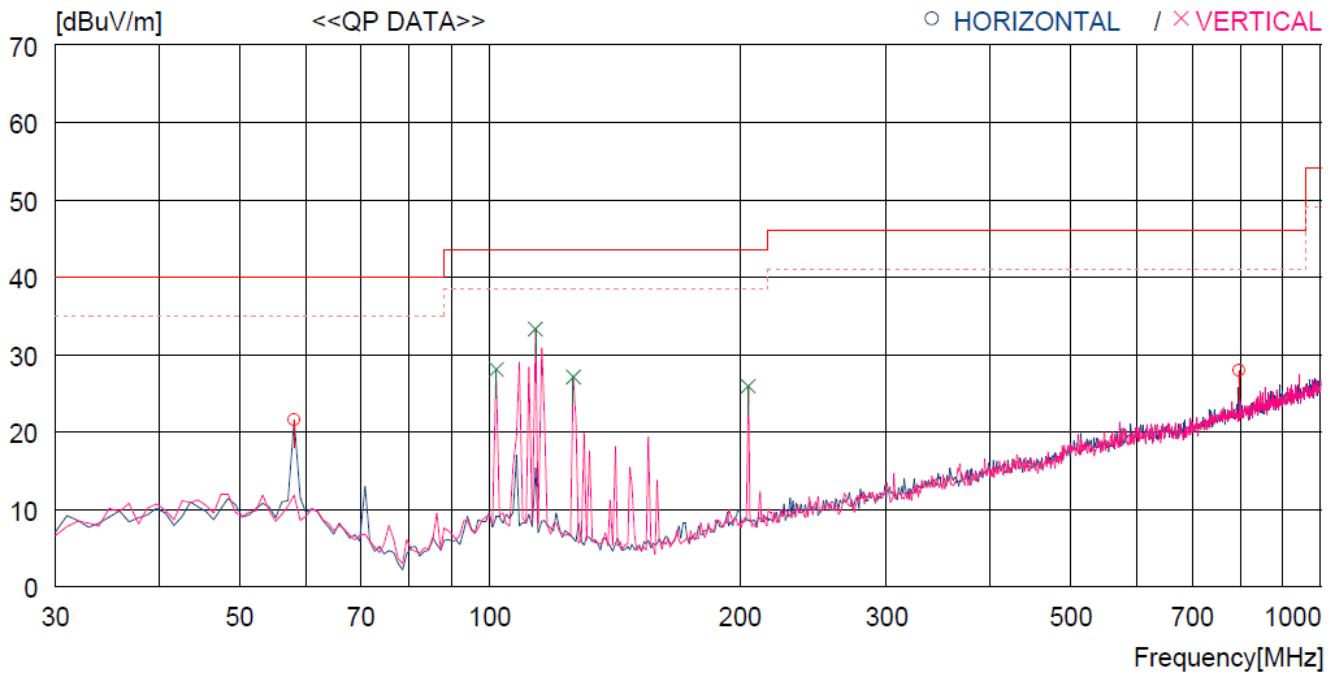
Humidity Level : 42.5 % R.H. Temperature: 23.2 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247
 Result : PASSED

EUT : Electronic Shelf Label Date: May 09, 2016
 Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
 Operating condition : Low Channel



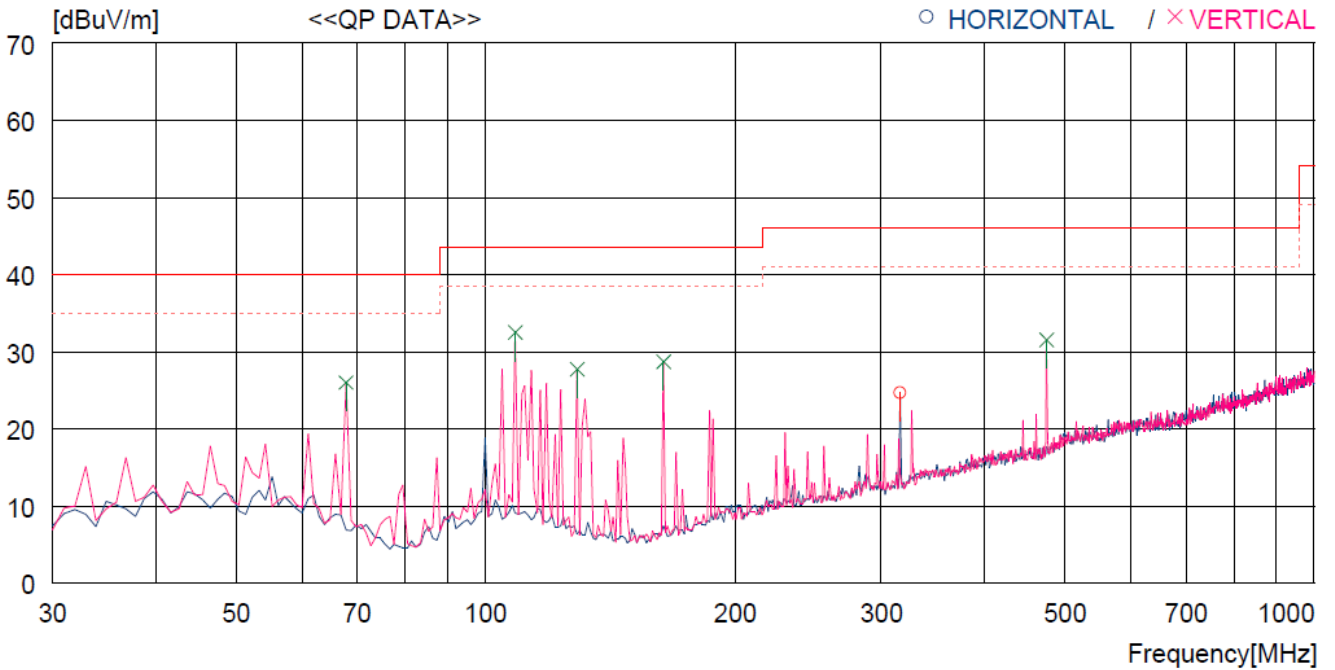
No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	197.810	43.0	10.5	3.7	32.8	24.4	43.5	19.1	200	209
----- Vertical -----										
2	53.280	39.9	14.0	2.0	33.0	22.9	40.0	17.1	200	11
3	113.420	46.7	11.2	3.1	33.3	27.7	43.5	15.8	200	71
4	188.110	45.0	10.1	3.6	32.8	25.9	43.5	17.6	200	71
5	497.541	33.8	16.8	6.8	32.9	24.5	46.0	21.5	200	5
6	707.055	32.1	19.5	7.3	33.7	25.2	46.0	20.8	200	11

Operating condition : Middle Channel



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	58.130	39.1	13.4	2.1	33.0	21.6	40.0	18.4	100	26
2	797.262	32.6	20.8	7.8	33.3	27.9	46.0	18.1	100	359
----- Vertical -----										
3	101.780	46.9	11.8	2.7	33.3	28.1	43.5	15.4	100	9
4	113.420	52.7	10.8	3.1	33.3	33.3	43.5	10.2	100	9
5	126.030	47.4	9.6	3.3	33.2	27.1	43.5	16.4	100	40
6	204.600	44.0	10.9	3.8	32.8	25.9	43.5	17.6	100	40

Operating condition : High Channel



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	316.150	38.7	14.0	4.7	32.7	24.7	46.0	21.3	400	0
----- Vertical -----										
2	67.830	46.3	10.5	2.3	33.1	26.0	40.0	14.0	200	2
3	108.570	51.8	11.2	2.8	33.3	32.5	43.5	11.0	100	0
4	128.940	48.4	9.3	3.1	33.1	27.7	43.5	15.8	200	359
5	163.860	49.4	8.8	3.4	32.9	28.7	43.5	14.8	100	359
6	475.231	41.5	16.9	5.9	32.8	31.5	46.0	14.5	100	359

Tested by: Tae-Ho, Kim / Senior Engineer

11.4.1 Test data for Below 30 MHz

- . Test Date : May 09, 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
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.									

11.4.2 Test data for above 1 GHz

- . Test Date : May 09, 2016
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
It was not observed any emissions from the EUT.									



Tested by: Tae-Ho, Kim / Senior Engineer