LTA
Laboratory for Test & Approval Co.,Ltd.

243 Jubug-Ri,Yangji-Myeon, Yongin-Si, Gyeonggi-Do, Korea 17159
Tel: +82-31-323-6008 Fax: +82-31-323-6010
http://www.ltalab.com

Dates of Tests: March 15 ~ April 23, 2019
Test Report S/N: LR500111904M
Test Site : LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID. **2AMMIMIRO-07RCU**

APPLICANT **MIRO Corporation**

Equipment Class	**:**	**Digital Transmission System (DTS)**
Manufacturing Description	**:**	**Humidifier Remote control**
Manufacturer	**:**	**MIRO Corporation**
Model name	**:**	**MIRO-07RCU**
Test Device Serial No.:	**:**	**Identical prototype**
Rule Part(s)	**:**	**FCC Part 15.247 Subpart C ; ANSI C-63.4-2014 ANSI C-63.10-2013**
Frequency Range	**:**	**2402 ~ 2480 MHz**
Max. Output Power	**:**	**Max 8.25 dBm – Conducted**
Data of issue	**:**	**April 23, 2019**

This test report is issued under the authority of:

Ja-Beom, Koo / Manager

The test was supervised by:

jae-Hum, Yeon / Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

NVLAP LAB Code.: 200723-0

TABLE OF CONTENTS

1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.

Address : 243, Jubug-ri,Yangji-Myeon,Youngin-Si, Kyunggi-Do, Korea. 17159

Web site : http://www.ltalab.com

E-mail : chahn@ltalab.com

Telephone : +82-31-323-6008

Facsimile +82-31-323-6010

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2019-09-30	ECT accredited Lab.
RRA	KOREA	KR0049	-	EMC accredited Lab.
FCC	U.S.A	649054	Updating	FCC CAB
VCCI	JAPAN	C-4948	2020-09-10	VCCI registration
VCCI	JAPAN	T-2416	2020-09-10	VCCI registration
VCCI	JAPAN	R-4483(10m)	2020-10-15	VCCI registration
VCCI	JAPAN	G-847	2022-06-13	VCCI registration
IC	CANADA	5799A-1	2019-06-15	IC filing
KOLAS	KOREA	NO.551	2021-08-20	KOLAS accredited Lab.

2. Information about test item

2-1 Client & Manufacturer

Company name	:	MIRO Corporation
Address	:	26F, M, 32, Songdogwahak-ro, Yeonsu-gu, INCHEON, Korea
Tel / Fax	:	TEL No : +82-10-4861-9286 / FAX No : 070-4032-5030

2-2 Equipment Under Test (EUT)

Model name	:	MIRO-07RCU
Serial number	:	Identical prototype
Date of receipt	:	March 15, 2019
EUT condition	:	Pre-production, not damaged
Antenna type	:	Pattern Antenna (Max Gain : 0.60 dBi)
Frequency Range	:	2402 ~ 2480 MHz
RF output power	:	Max 8.25 dBm – Conducted
Number of channels	:	40
Type of Modulation	:	GFSK
Power Source	:	3.0 Vdc

2-3 Tested frequency

	LOW	MID	HIGH
Frequency (MHz)	2402	2442	2480

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
Notebook	CR720	MS-1736	MSI

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	6 dB Bandwidth	> 500 kHz	Conducted	C
15.247(b)	Transmitter Peak Output Power	< 1 Watt		C
15.247(d)	Transmitter Power Spectral Density	< 8 dBm @ 3 kHz		C
15.247(d)	Band Edge	> 20 dBc		C
15.209	Field Strength of Harmonics	Emission	Radiated	C
15.207	AC Conducted Emissions	Emissions	Conducted	C
15.203	Antenna requirement	-	-	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: This product operates only with battery and does not operate during charging.

→ Antenna Requirement
MIRO Corporation. FCC ID: 2AMMIMIRO-07RCU unit complies with the requirement of §15.203.
The antenna type is Pattern Antenna

The sample was tested according to the following specification:
*FCC Parts 15.247; ANSI C-63.4-2014
*FCC KDB Publication No. 558074 D01 v05r02
*FCC TCB Workshop 2012, April

3.2 Technical Characteristics Test

3.2.1 6 dB Bandwidth

Procedure:

The bandwidth at 6 dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

Span = 5 MHz

VBW = 100 kHz (VBW ≥ RBW)

Sweep = auto

Trace = max hold

Detector function = peak

Measurement Data : Complies

Frequency (MHz)	Test Results	
	Measured Bandwidth (MHz)	Result
2402	**0.695**	Complies
2442	**0.666**	Complies
2480	**0.666**	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

6 dB Bandwidth > 500 kHz

Measurement Setup

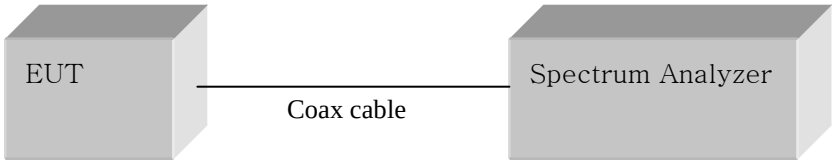
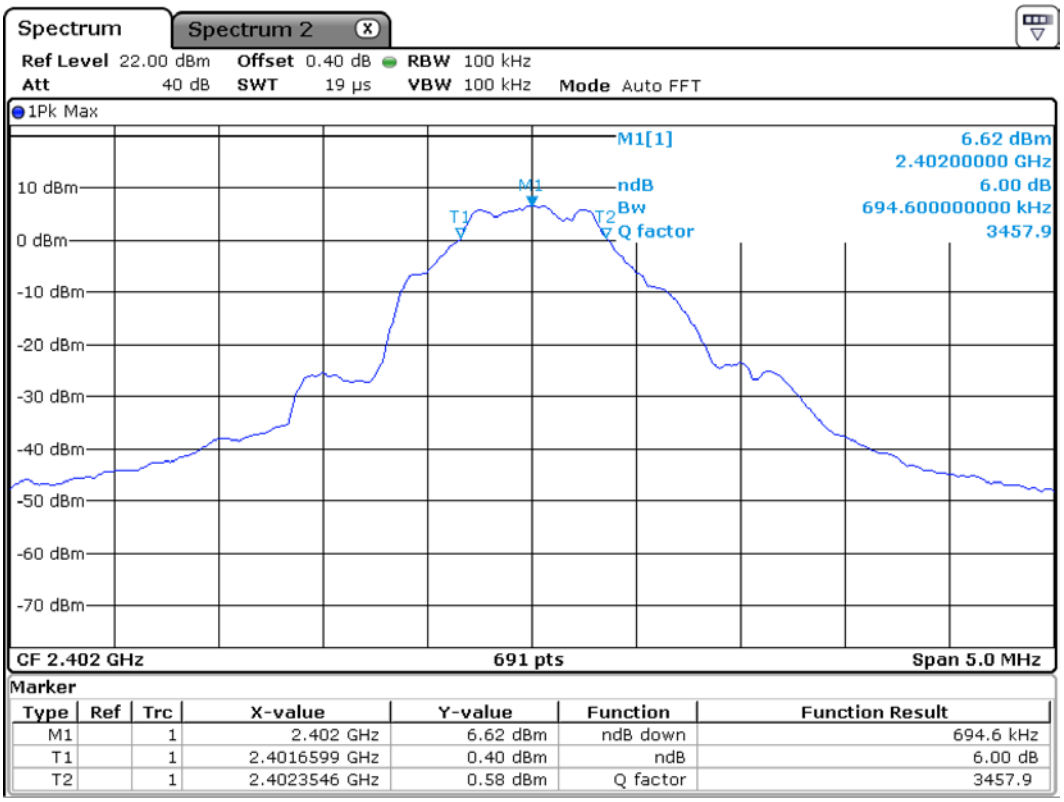


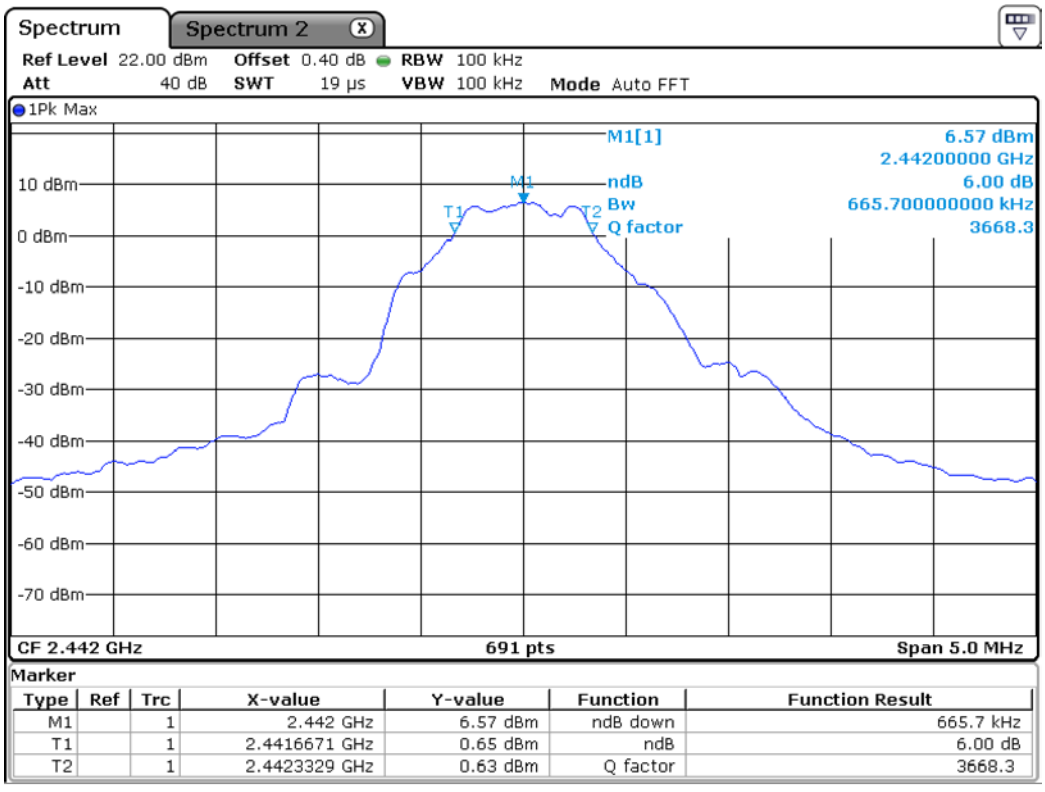
Figure 1: Measurement setup for the carrier frequency separation

Low Channel



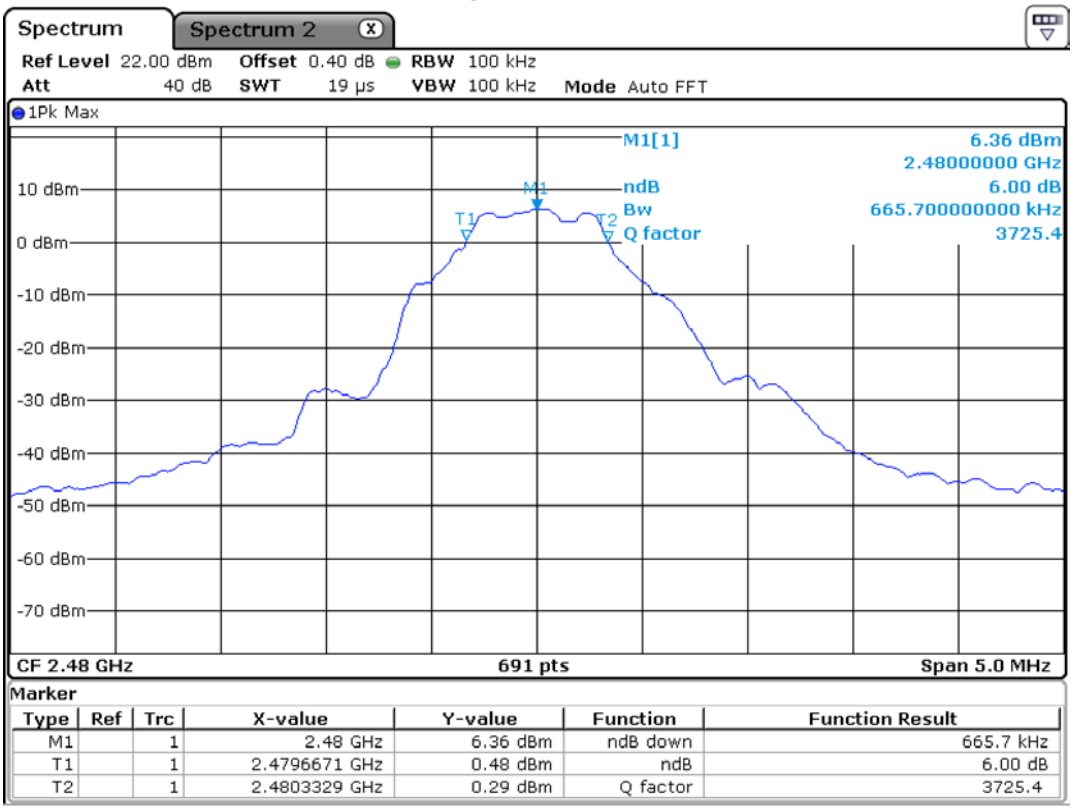
Date: 17.APR.2019 08:24:39

Middle Channel



Date: 17.APR.2019 08:25:11

High Channel



Date: 17.APR.2019 08:25:38

3.2.2 Peak Output Power Measurement

Procedure:

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99 % bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1 MHz Span = auto

VBW = 3 MHz (VBW ≥ 3 * RBW) Sweep = auto

Detector function = peak

Measurement Data : Complies

Frequency (MHz)	Test Results		
	dBm	mW	Result
2402	**8.25**	**6.683**	Complies
2442	**8.14**	**6.516**	Complies
2480	**7.89**	**6.152**	Complies

- See next pages for actual measured spectrum plots.

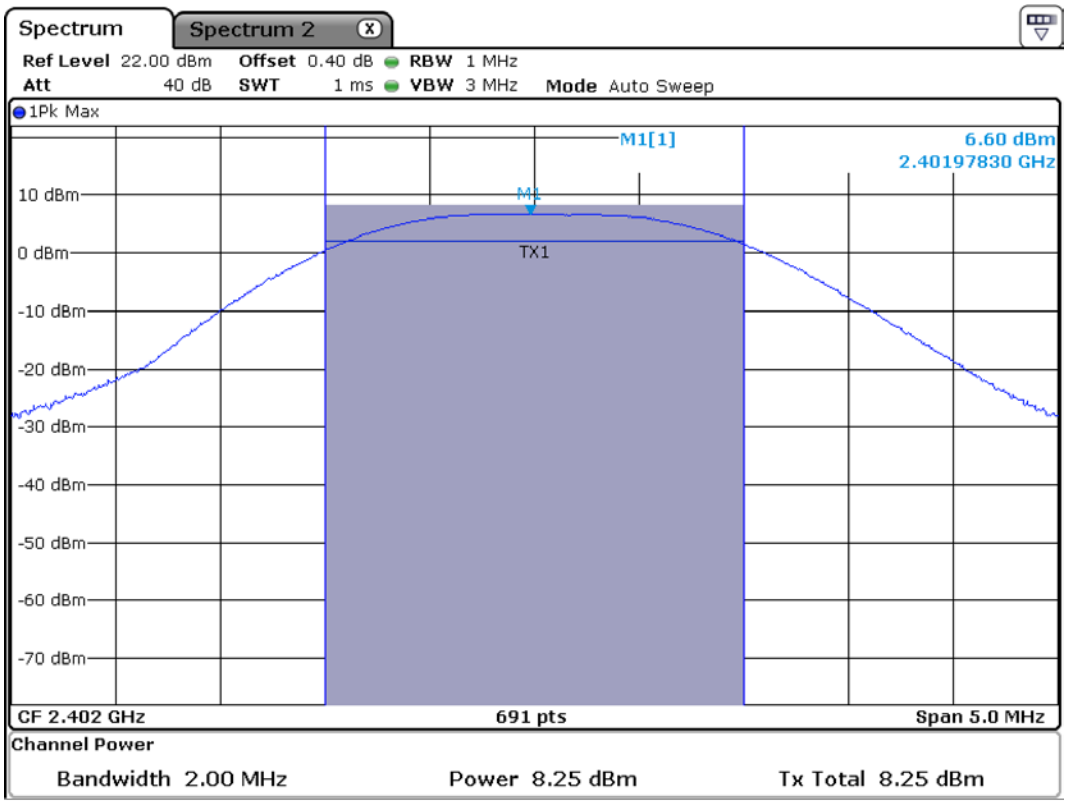
Minimum Standard:

Peak output power	< 1 W

Measurement Setup

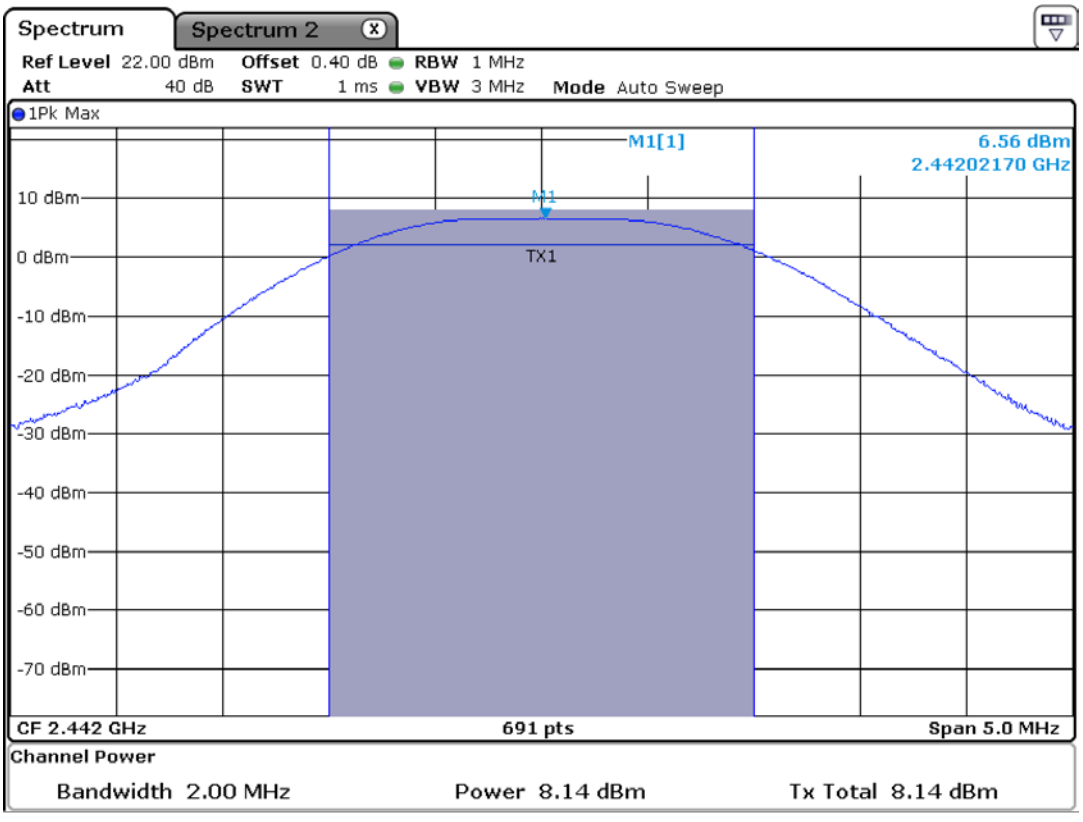
Same as the Chapter 3.2.1 (Figure 1)

Low Channel



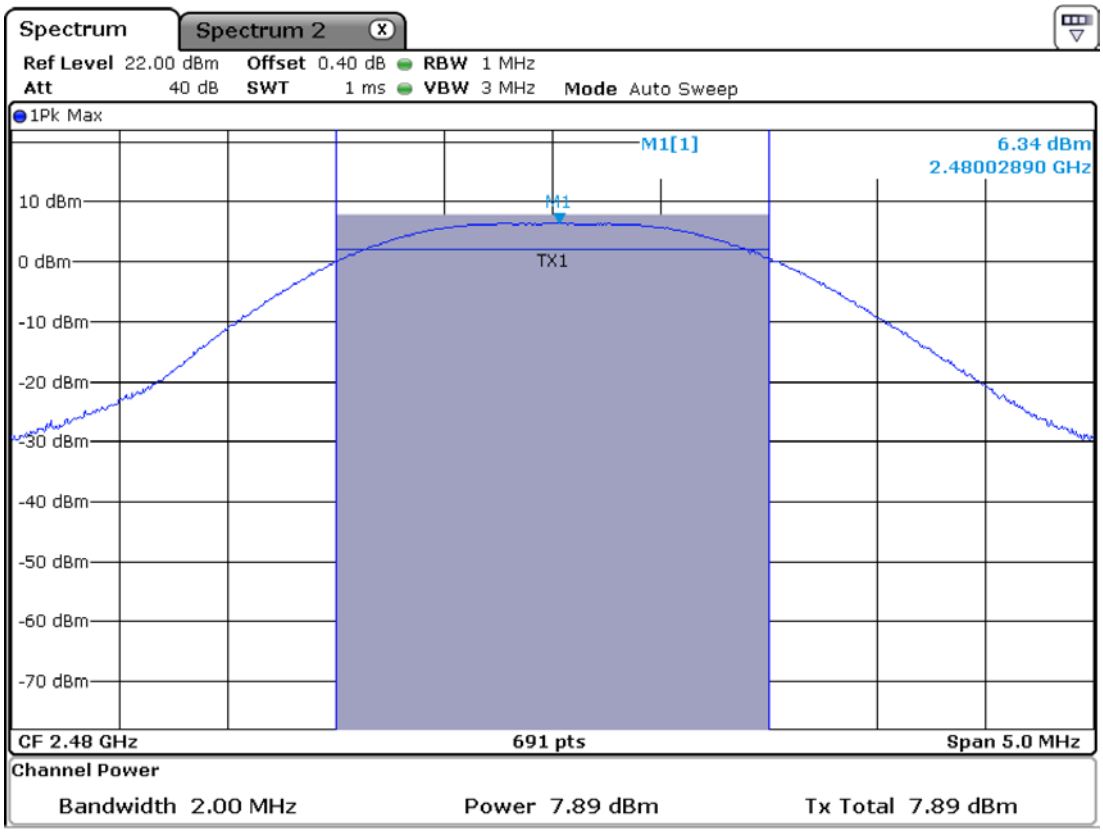
Date: 17.APR.2019 08:26:06

Middle Channel



Date: 17.APR.2019 08:26:21

High Channel



Date: 17.APR.2019 08:26:36

3.2.3 Power Spectral Density

Procedure:

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The spectrum analyzer is set to:

RBW = 3 kHz (3kHz≤RBW≤100kHz) Span = 1.5 times the DTS bandwidth

VBW = 10 kHz (3 * RBW) Sweep = auto

Detector function = peak Trace = max hold

Measurement Data : Complies

Frequency (MHz)	Test Results	
	dBm	Result
2402	**6.45**	Complies
2442	**6.42**	Complies
2480	**6.21**	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

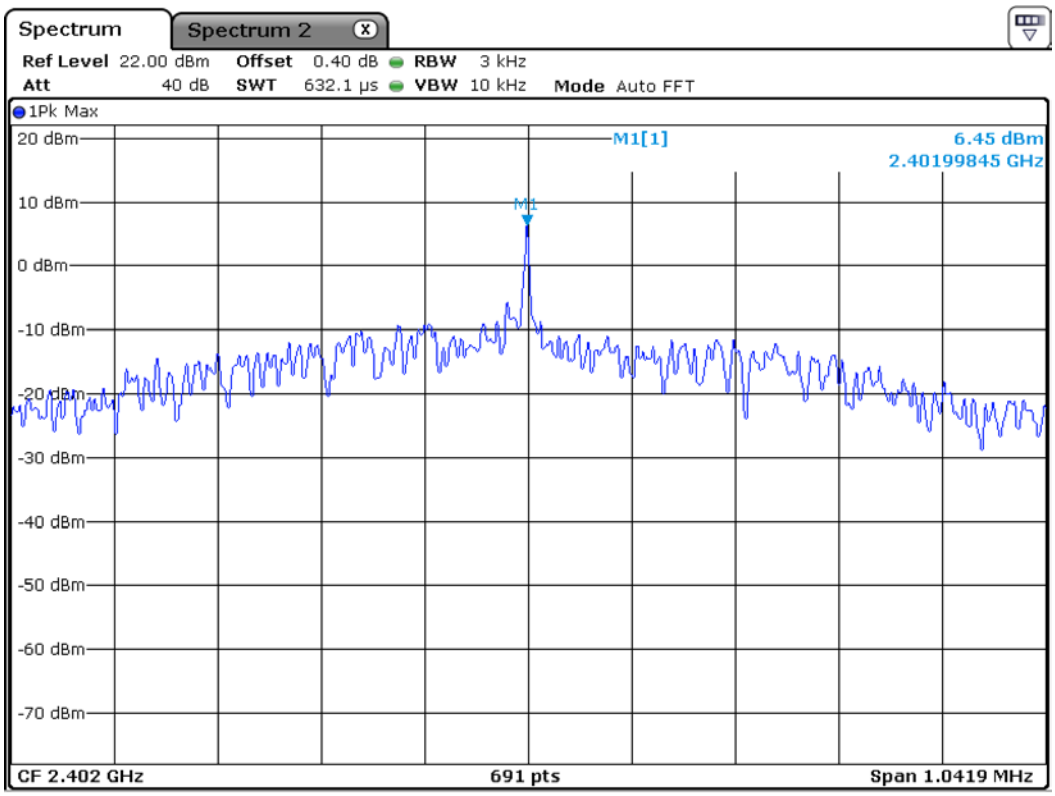
Power Spectral Density	< 8 dBm @ 3 kHz BW

Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

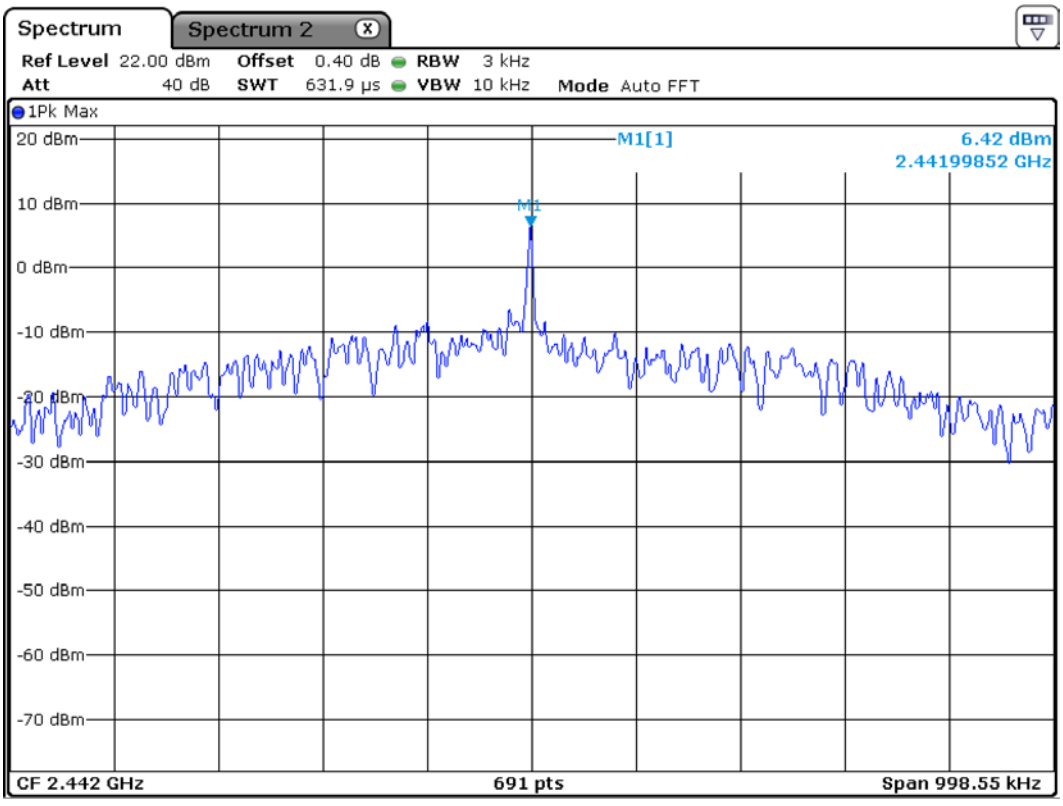
Power Density Measurement

Low Channel



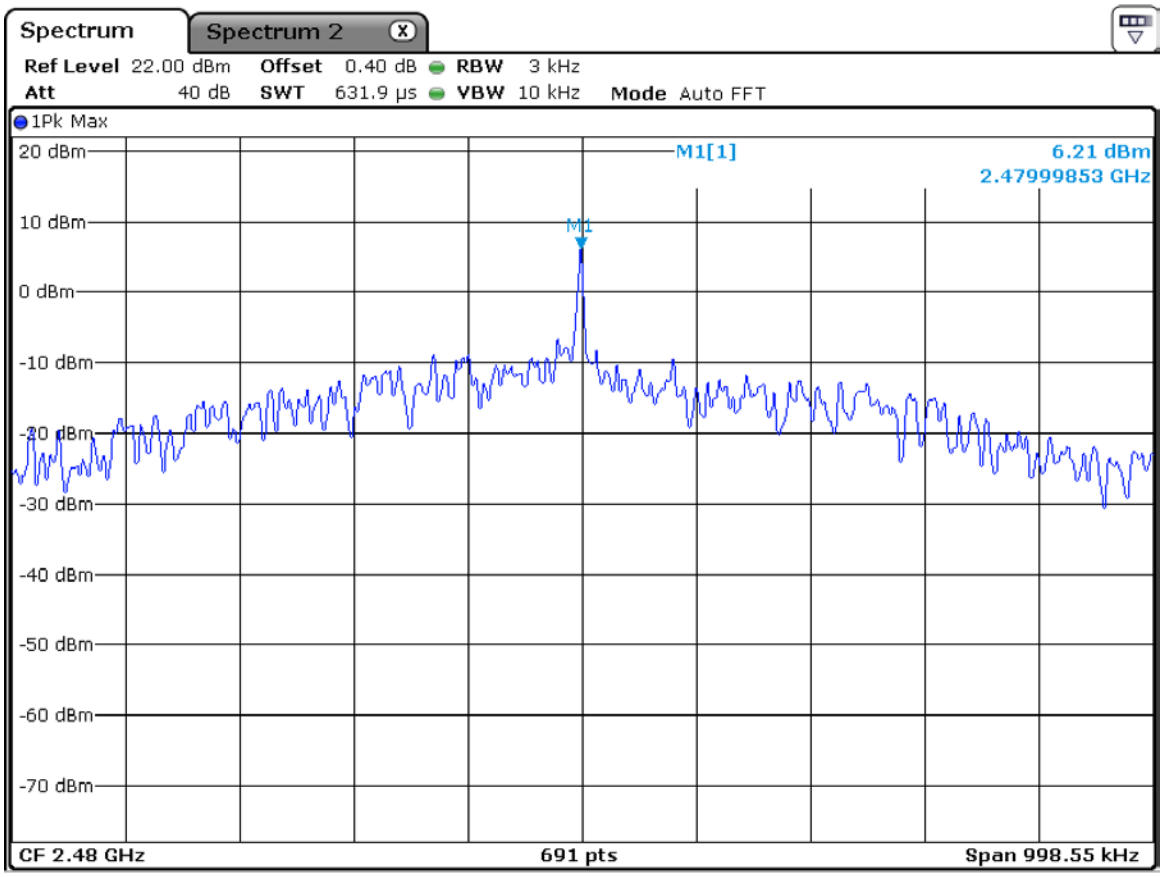
Date: 17.APR.2019 08:27:58

Middle Channel



Date: 17.APR.2019 08:28:32

High Channel



Date: 17.APR.2019 08:28:48

3.2.4 Band Edge

Procedure:

The bandwidth at 20 dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz	VBW = 100 kHz
Span = 40 MHz, 100 MHz	Detector function = peak
Trace = max hold	Sweep = auto

Radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

The spectrum analyzer is set to:

Center frequency = the highest, the lowest channels

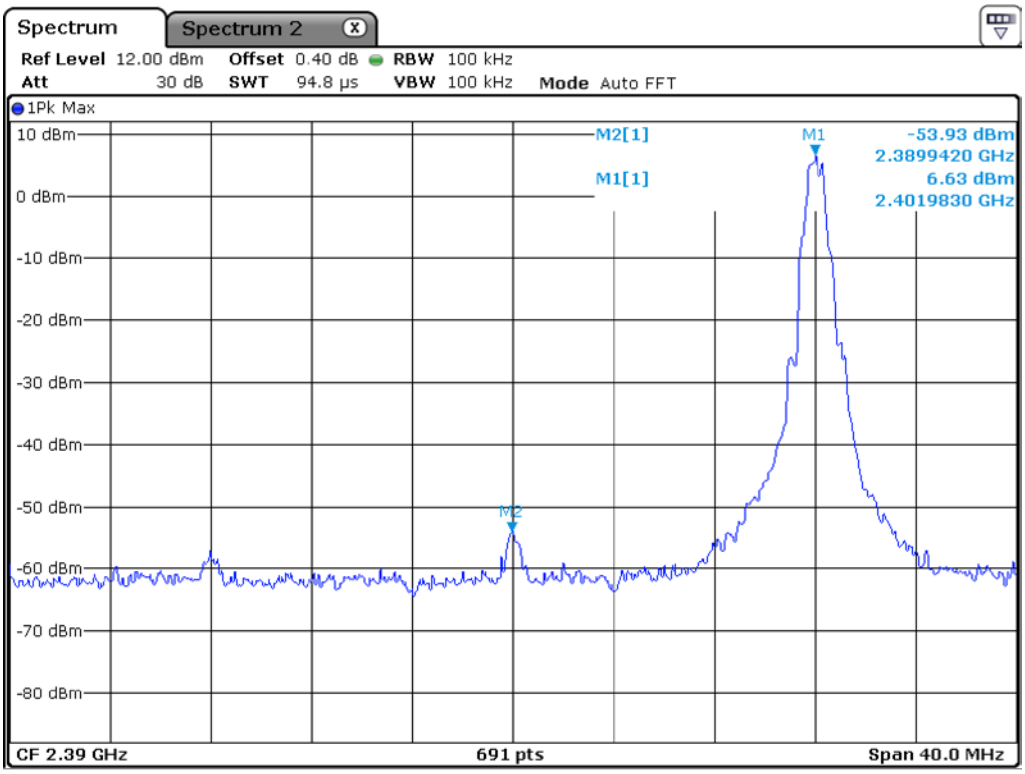
PEAK:	RBW = 1 MHz, VBW ≥ 3 MHz, Sweep=Auto
Average:	RBW = 1 MHz, VBW = 10 Hz, Sweep=Auto
Measurement Distance:	3 m
Polarization:	Horizontal / Vertical

Measurement Data: Complies

- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 20 dB lower than the highest inband spectral density. Therefore the applying equipment meets the require ment.
- See next pages for actual measured spectrum plots.

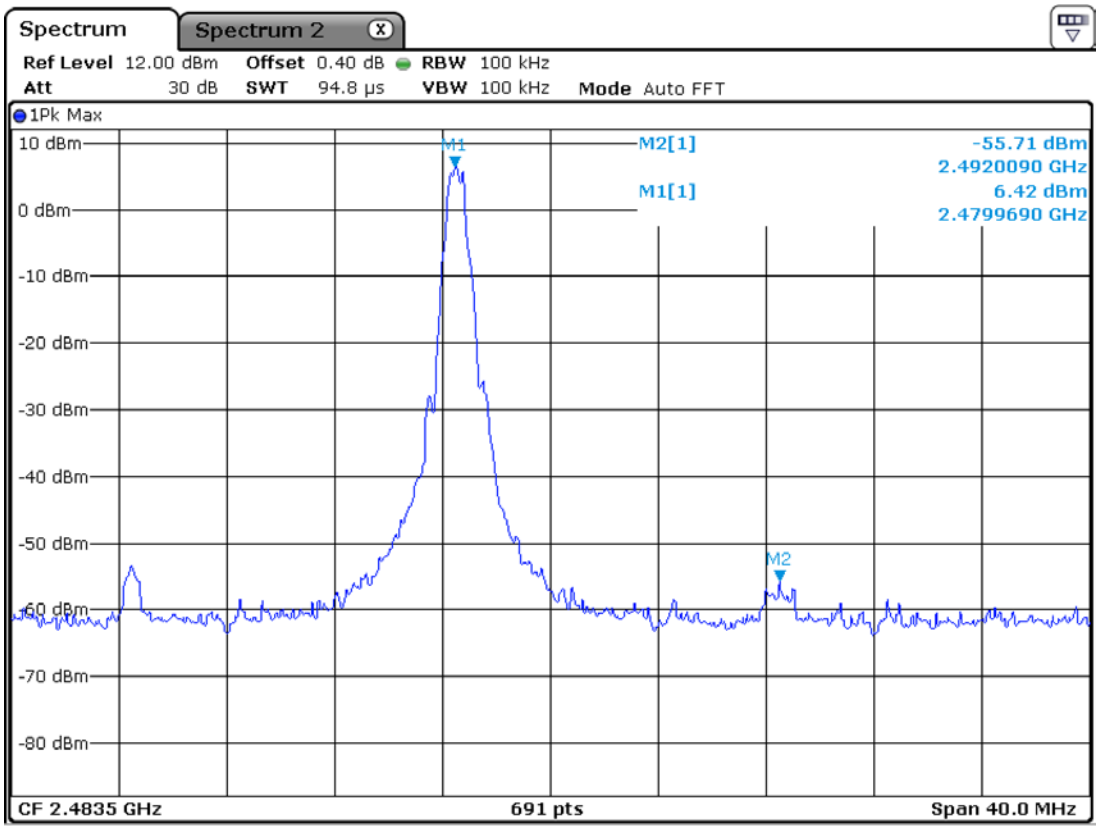
Minimum Standard:	> 20 dBc

Lower edge



Date: 17.APR.2019 08:29:49

Upper edge



Date: 17.APR.2019 08:30:25

Radiated Band-edges in the restricted band 2310-2390 MHz measurement

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
				Antenna	Amp. Gain + Cable Loss						
2389.9	24.19	29.53	H	28.08	8.77	54	74	43.5	48.84	10.5	25.16

Radiated Band-edges in the restricted band 2483.5-2500 MHz measurement

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
				Antenna	Amp. Gain + Cable Loss						
2492.1	23.81	28.96	H	27.88	8.57	54	74	43.12	48.27	10.88	25.73

Note : This EUT was tested in 3 orthogonal positions and the worst-case data was presented

3.2.5 Conducted Spurious Emissions

Procedure:

The test follows KDB558074. The conducted spurious emissions were measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, set the marker on the peak of any spurious emission recorded.

The spectrum analyzer is set to:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions

RBW = 100 kHz Sweep = auto

VBW = 100 kHz Detector function = peak

7Trace = max hold

Measurement Data: Complies

- All conducted emission in any 100 kHz bandwidth outside of the spread spectrum band was at least 20 dB lower than the highest inband spectral density. Therefore the applying equipment meets the require ment.
- See next pages for actual measured spectrum plots.

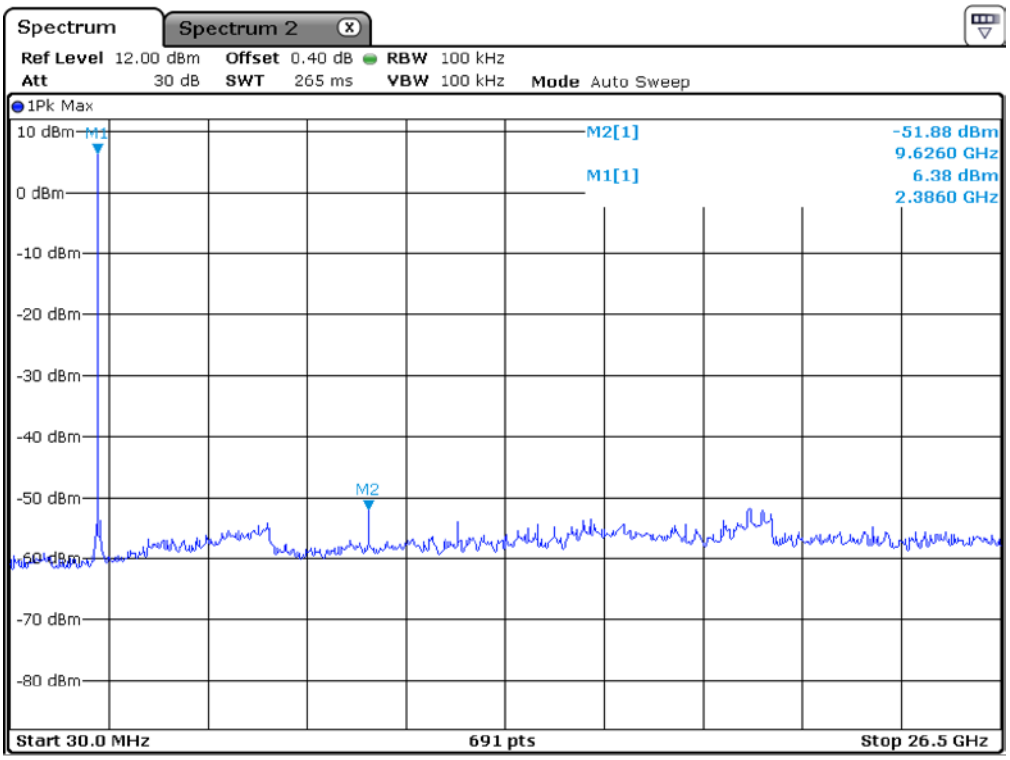
Minimum Standard:	> 20 dBc

Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

Unwanted Emission – Low Channel

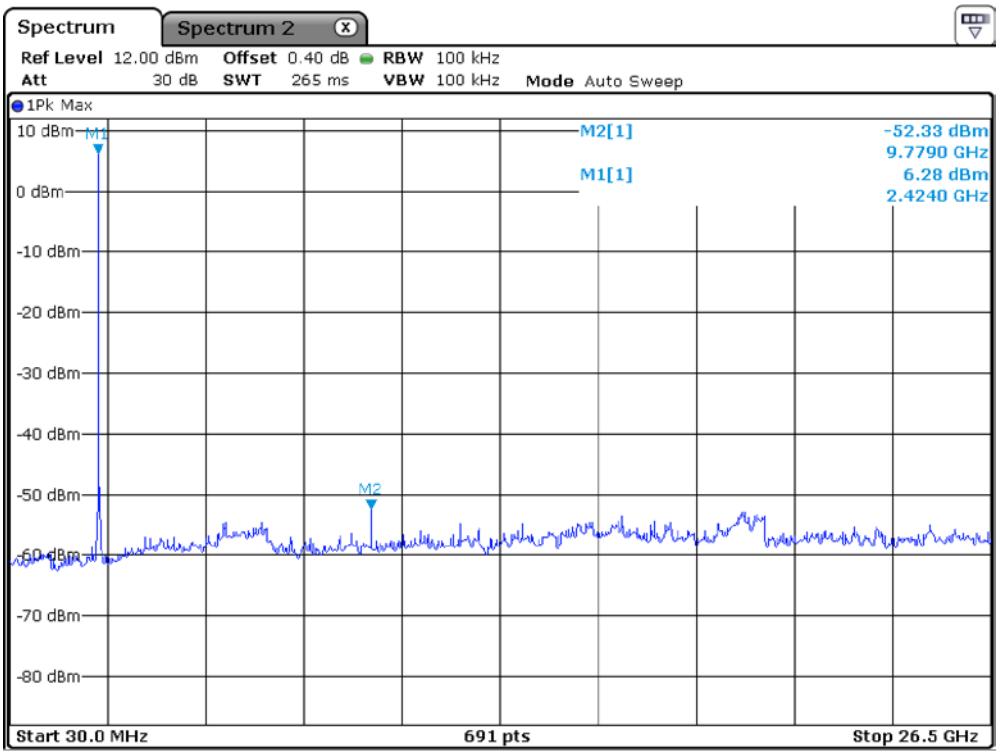
Frequency Range = 30 MHz ~ 26.5 GHz



Date: 17.APR.2019 08:31:01

Unwanted Emission – Middle Channel

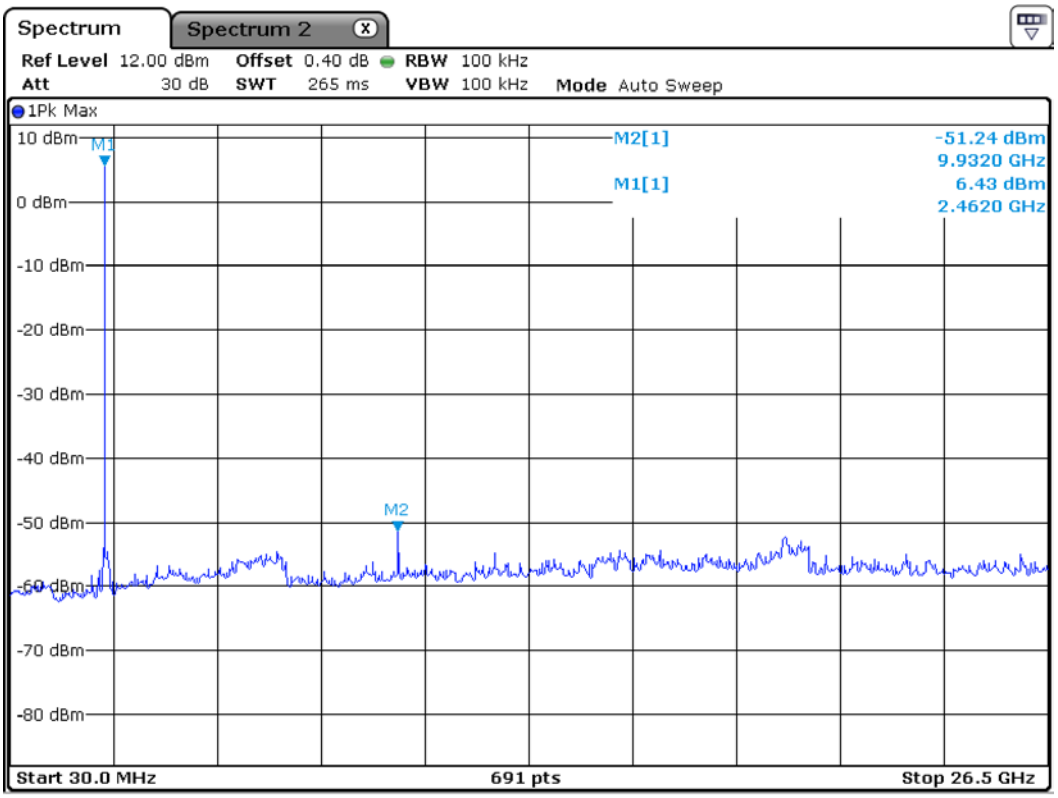
Frequency Range = 30 MHz ~ 26.5 GHz



Date: 17.APR.2019 08:31:18

Unwanted Emission – High Channel

Frequency Range = 30 MHz ~ 26.5 GHz



Date: 17.APR.2019 08:31:38

3.2.6 Radiated Spurious Emissions

Procedure:

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 kHz ~ 10^{th} harmonic.

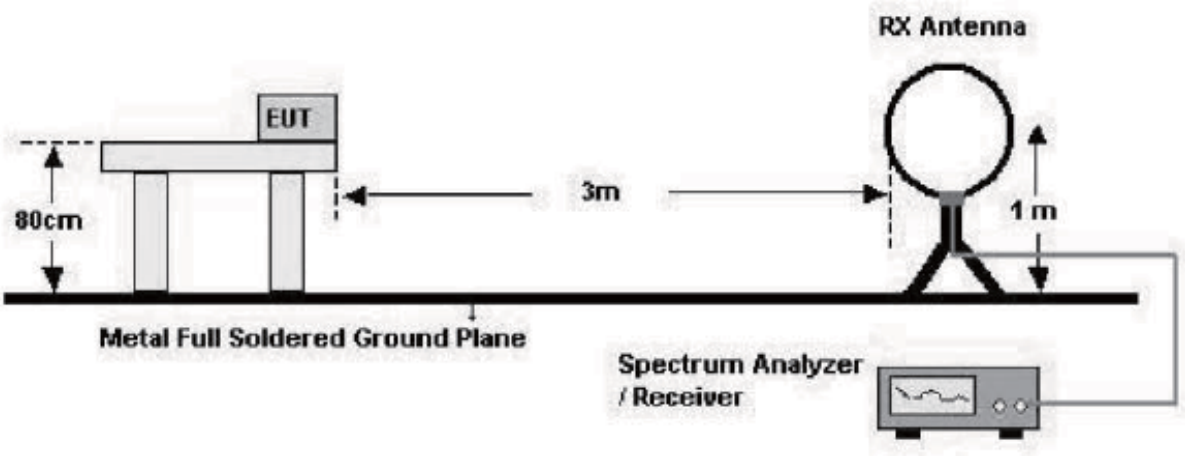
RBW = 100 kHz (30 MHz ~ 1 GHz) VBW ≥ RBW

= 1 MHz (1 GHz ~ 10^{th} harmonic)

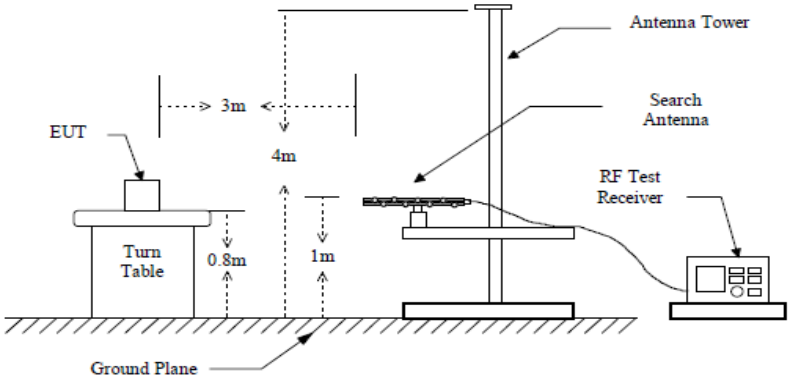
Span = 100 MHz Detector function = peak

Trace = max hold Sweep = auto

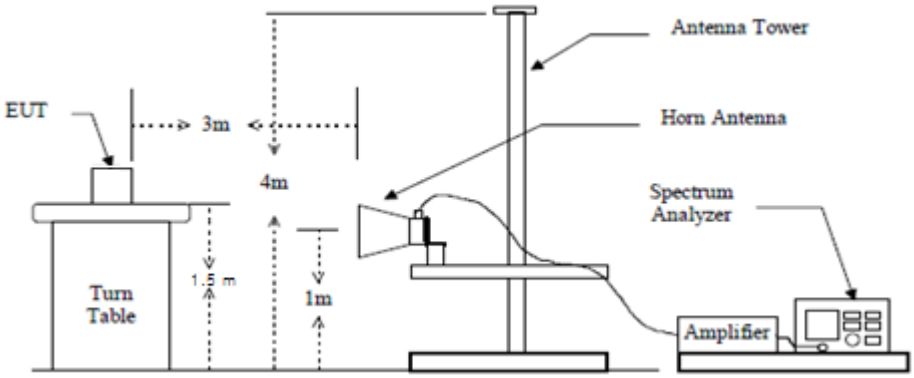
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



Measurement Data: Complies

- See next pages for actual measured data.
- 30 MHz or less 414788 D01 Radiated Test Site The results of the test were compared to confirm thes imilarity of the test results.
- No other emissions were detected at a level greater than 20 dB below limit include from 9 kHz to 30MHz.

Minimum Standard: FCC Part 15.209(a)

Frequency (MHz)	Limit (uV/m) @ 3 m
0.009 ~ 0.490	2400/F(kHz) **(@ 300 m)**
0.490 ~ 1.705	24000/F(kHz) **(@ 30 m)**
1.705 ~ 30	30**(@ 30 m)**
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

Measurement Data : (9 kHz – 30 MHz)

Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Correction Factor		Limits [dBuV/m] AV / Peak		Result [dBuV/m] AV / Peak		Margin [dB] AV / Peak	
				Antenna	Amp.Gain+Cable						
-	-	-	-	-	-	-	-	-	-	-	-
No emissions were detected at a level greater than 20 dB below limit.											
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Measurement Data : (Below 1 GHz)

Frequency [MHz]	Reading [dBuV/m]	Pol.	Correction Factor	Limits [dBuV/m]	Result [dBuV/m]	Margin [dB]
			Antenna-Amp.Gain+Cable			
51.34	45.90	V	-13.35	40	32.55	7.45
-	-	-	-	-	-	-
-	-	-	-	-	-	-

- No other emissions were detected at a level greater than 20 dB below limit.

Measurement Data : (Above 1 GHz)

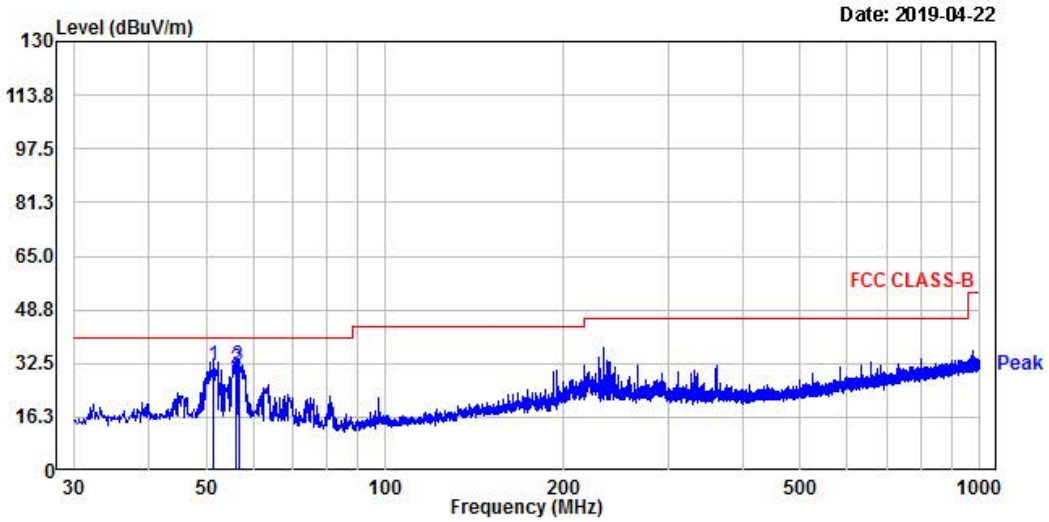
Frequency [MHz]	Reading [dBuV/m] AV / Peak		Pol.	Correction Factor	Limits [dBuV/m] AV/Peak		Result [dBuV/m] AV/Peak		Margin [dB] AV / Peak	
				Antenna-Amp.Gain+Cable						
13005.18	28.05	33.19	V	14.88	54	74	42.93	48.07	11.07	25.93
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

- No other emissions were detected at a level greater than 20 dB below limit.

Radiated Emissions - (Below 1 GHz)

4, Songjuro 236Beon-gil, yanggi-myeon,
Yongin-si, Gyeonggi-do, Korea
Tel : +82-31-3236008,9
Fax : +82-31-3236010
www.ltalab.com

EUT/Model No.: MIRO-07RCU Temp/Humi: 23 / 36
Test Mode : bluetooth mode Tested by: YEON J H



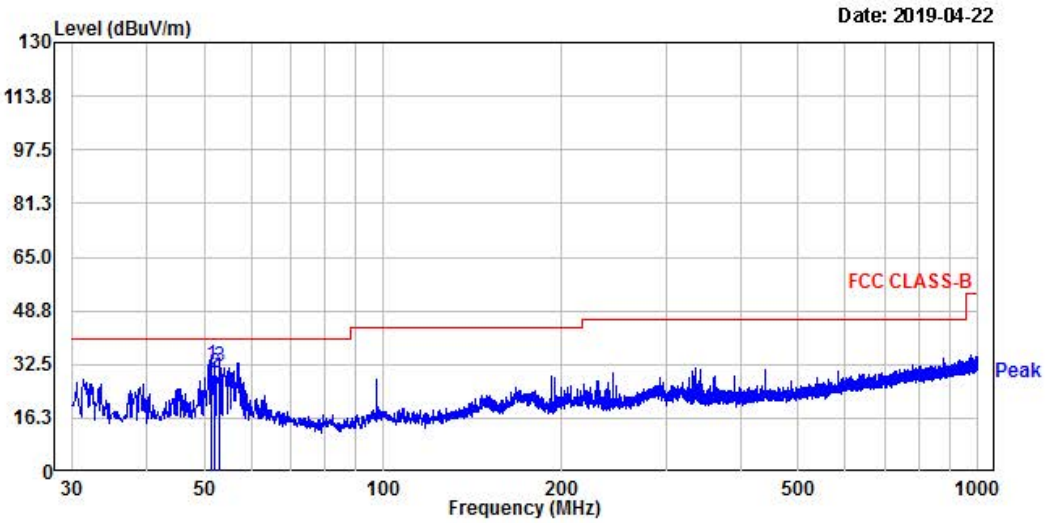
Freq	Reading	C.F	Result QP	Limit	Margin	Height	Angle	Polarity
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg	
51.46	45.24	-13.34	31.90	40.00	8.10	400	0	horizontal
56.31	44.24	-13.57	30.67	40.00	9.33	400	360	horizontal
56.68	45.26	-13.57	31.69	40.00	8.31	392	360	horizontal

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

4, Songjuro 236Beon-gil, yanggi-myeon,
Yongin-si, Gyeonggi-do, Korea
Tel : +82-31-3236008,9
Fax : +82-31-3236010
www.ltalab.com

EUT/Model No.: MIRO-07RCU Temp/Humi: 23 / 36

Test Mode : bluetooth mode Tested by: YEON J H



Freq	Reading	C.F	Result QP	Limit	Margin	Height	Angle	Polarity
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	deg	
51.34	45.90	-13.35	32.55	40.00	7.45	100	64	vertical
51.95	43.16	-13.33	29.83	40.00	10.17	100	141	vertical
53.16	45.54	-13.44	32.10	40.00	7.90	100	73	vertical

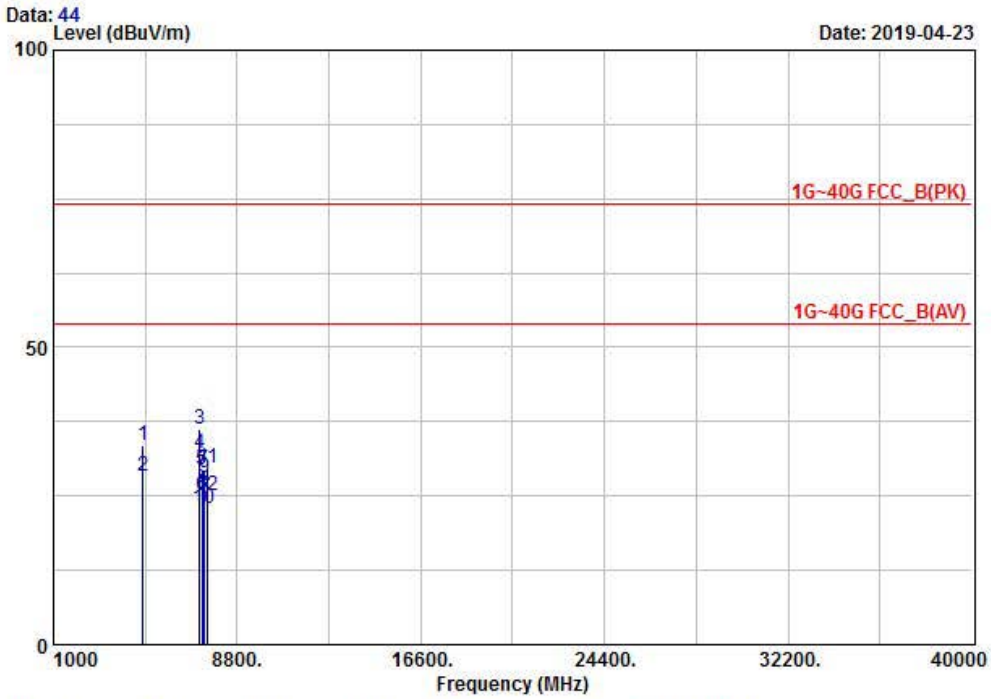
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Radiated Emissions - (Above 1 GHz)

LTA
Laboratory for Test & Approval Co.,Ltd.

EMI I Chamber of LTA CO.,LTD.
4, Songjuro236Beon-gil, Yangji-myeon,
Yongin-si, Gyeonggi-do, Korea Autho.by NVLAP
Tel :+82-31-3236008,9 www.ltalab.com
Fax:+82-31-3236010

EUT/Model No.: MIRO-07RCU Test Mode: BLE low
Tested by : YEON J H Temp/Humi: 22 / 62



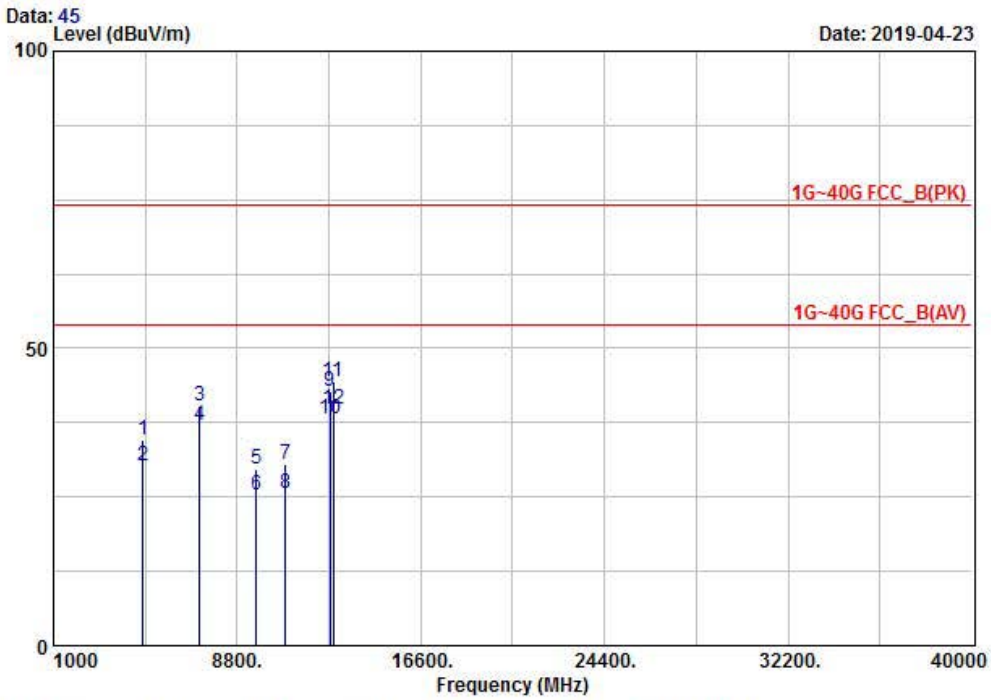
1	4805.02	48.62	-15.05	33.57	74.00	40.43	HORIZONTAL
2	4805.02	43.41	-15.05	28.36	54.00	25.64	HORIZONTAL
3	7211.56	44.08	-7.78	36.30	74.00	37.70	HORIZONTAL
4	7211.56	39.86	-7.78	32.08	54.00	21.92	HORIZONTAL
5	7317.14	36.04	-6.48	29.56	74.00	44.44	VERTICAL
6	7317.14	31.61	-6.48	25.13	54.00	28.87	VERTICAL
7	7362.59	35.39	-5.92	29.47	74.00	44.53	VERTICAL
8	7362.59	31.21	-5.92	25.29	54.00	28.71	VERTICAL
9	7402.63	33.59	-5.42	28.17	74.00	45.83	HORIZONTAL
10	7402.63	28.19	-5.42	22.77	54.00	31.23	HORIZONTAL
11	7546.24	34.43	-4.65	29.78	74.00	44.22	VERTICAL
12	7546.24	29.68	-4.65	25.03	54.00	28.97	VERTICAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
Blue : Vertical Black : Horizontal

Laboratory for Test & Approval Co.,Ltd.

EMI I Chamber of LTA CO.,LTD.
4, Songjuro236Beon-gil, Yangji-myeon,
Yongin-si, Gyeonggi-do, Korea Autho.by NVLAP
Tel :+82-31-3236008,9 www.ltalab.com
Fax:+82-31-3236010

EUT/Model No.: MIRO-07RCU Test Mode: BLE mid
Tested by : YEON J H Temp/Humi: 22 / 62



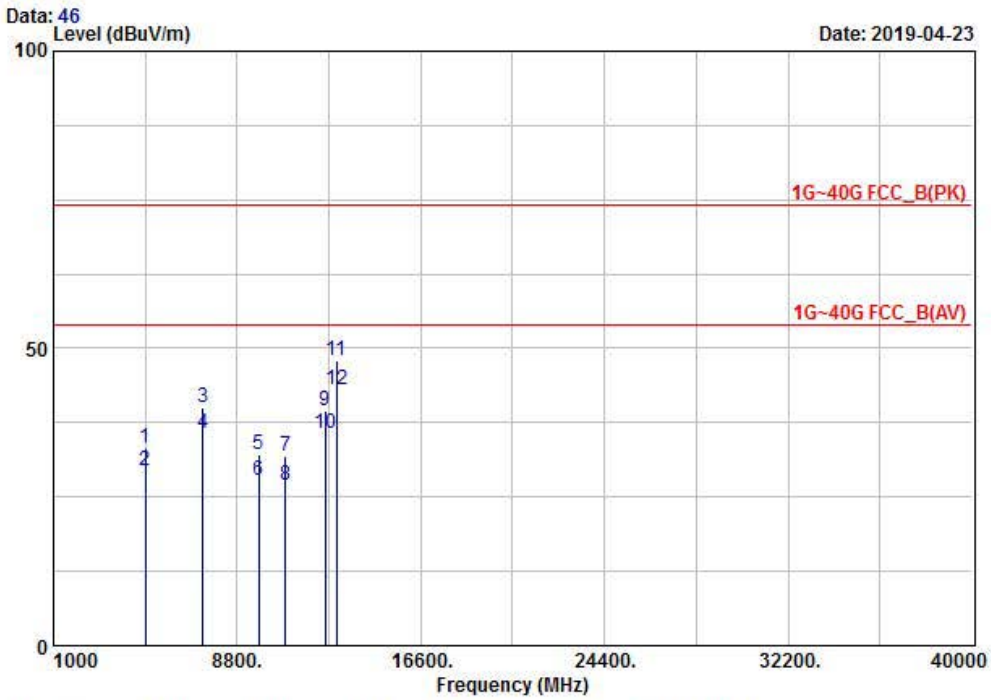
1	4787.26	49.62	-15.06	34.56	74.00	39.44	HORIZONTAL
2	4787.26	45.19	-15.06	30.13	54.00	23.87	HORIZONTAL
3	7216.65	48.12	-7.72	40.40	74.00	33.60	VERTICAL
4	7216.65	44.68	-7.72	36.96	54.00	17.04	VERTICAL
5	9614.52	38.14	-8.37	29.77	74.00	44.23	HORIZONTAL
6	9614.52	33.69	-8.37	25.32	54.00	28.68	HORIZONTAL
	710842.16	36.27	-5.84	30.43	74.00	43.57	HORIZONTAL
	810842.16	31.50	-5.84	25.66	54.00	28.34	HORIZONTAL
	912760.11	33.65	9.16	42.81	74.00	31.19	HORIZONTAL
	1012760.11	28.96	9.16	38.12	54.00	15.88	HORIZONTAL
	1112881.47	32.25	12.07	44.32	74.00	29.68	VERTICAL
	1212881.47	27.66	12.07	39.73	54.00	14.27	VERTICAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
Blue : Vertical Black : Horizontal

LTA
Laboratory for Test & Approval Co.,Ltd.

EMI I Chamber of LTA CO.,LTD.
4, Songjuro236Beon-gil, Yangji-myeon,
Yongin-si, Gyeonggi-do, Korea Autho.by NVLAP
Tel :+82-31-3236008,9 www.ltalab.com
Fax:+82-31-3236010

EUT/Model No.: MIRO-07RCU Test Mode: BLE high
Tested by : YEON J H Temp/Humi: 22 / 62



1	4891.26	48.21	-15.02	33.19	74.00	40.81	HORIZONTAL
2	4891.26	44.38	-15.02	29.36	54.00	24.64	HORIZONTAL
3	7346.68	46.20	-6.11	40.09	74.00	33.91	VERTICAL
4	7346.68	41.89	-6.11	35.78	54.00	18.22	VERTICAL
5	9705.84	40.51	-8.45	32.06	74.00	41.94	VERTICAL
6	9705.84	36.32	-8.45	27.87	54.00	26.13	VERTICAL
	710863.95	37.55	-5.80	31.75	74.00	42.25	HORIZONTAL
	810863.95	32.74	-5.80	26.94	54.00	27.06	HORIZONTAL
	912551.85	35.38	4.16	39.54	74.00	34.46	HORIZONTAL
	1012551.85	31.44	4.16	35.60	54.00	18.40	HORIZONTAL
	1113005.18	33.19	14.88	48.07	74.00	25.93	VERTICAL
	1213005.18	28.05	14.88	42.93	54.00	11.07	VERTICAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain
Blue : Vertical Black : Horizontal

3.2.7 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: Complies

Minimum Standard: FCC Part 15.207(a) / EN 55022

Frequency Range	quasi-peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Note: This product operates only with battery and does not operate during charging.

APPENDIX

TEST EQUIPMENT USED FOR TESTS

	Use	Description	Model No.	Serial No.	Manufacturer	Interval	Last Cal. Date
1	■	Signal Analyzer (9 kHz ~ 30 GHz)	FSV30	100757	R&S	1 year	2018-09-06
2		SYNTHESIZED CW GENERATOR	83711B	US34490456	HP	1 year	2019-03-16
3		Attenuator (3 dB)	8491A	37822	HP	1 year	2018-09-06
4		Attenuator (10 dB)	8491A	63196	HP	1 year	2018-09-06
5	■	EMI Test Receiver (~7 GHz)	ESCI7	100722	R&S	1 year	2018-09-06
6	■	RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	HP	1 year	2018-09-06
7	■	RF Amplifier (1~26.5 GHz)	8449B	3008A02126	HP	1 year	2019-03-16
8	■	Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2018-09-26
9		DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2018-05-03
10	■	DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2018-05-03
11	■	TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2019-03-23
12		Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2018-09-06
13		DC Power Supply	6674A	3637A01657	Agilent	-	-
14	■	Power Meter	EPM-441A	GB32481702	HP	1 year	2019-03-16
15	■	Power Sensor	8481A	3318A94972	HP	1 year	2018-09-06
16		Audio Analyzer	8903B	3729A18901	HP	1 year	2018-09-06
17		Modulation Analyzer	8901B	3749A05878	HP	1 year	2018-09-06
18		TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2018-09-06
19		Stop Watch	HS-3	812Q08R	CASIO	2 year	2019-03-16
20		LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2018-09-06
21		Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2019-03-16
22		Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2019-03-16
23		Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2019-03-16
24		OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2019-03-16
25	■	Signal Generator(100 kHz ~ 40 GHz)	SMB100A	177621	R&S	1 year	2019-03-16
26		Vector Signal Generator(9kHz ~ 6 GHz)	SMBV100A	255081	R&S	1 year	2019-03-16
27		Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2019-03-16