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> Dates of Tests: June 10 ~ June 26, 2019 Test Report S/N: LR500112107M Test Site: LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID.

2AS8LIET10RC4

APPLICANT

SJI Co.,Ltd

Equipment Class Digital Transmission System (DTS)

Manufacturing Description Asset Tracker Manufacturer SJI Co.,Ltd Model name IET10RC4

Test Device Serial No.: Identical prototype

FCC Part 15.247 Subpart C; ANSI C-63.4-2014 Rule Part(s)

ANSI C-63.10-2013

2412 MHz ~ 2462 MHz (802.11 b/g/n/)

Frequency Range 2402 MHz ~ 2480 MHz (BT BLE)

920.1375 MHz ~ 922.6625 MHz (Sigfox)

Max. Output Power Max 22.19 dBm - Conducted(Sigfox)

> Max 3.71 dBm - Conducted(BT BLE) Max 17.40 dBm - Conducted(802.11 b) Max 21.36 dBm - Conducted(802.11 g)

Max 21.09 dBm - Conducted(802.11 n20)

Data of issue July 21, 2022

This test report is issued under the authority of:

JaBeom. Koo

The test was supervised by:

Ja-Beom Koo, Manager

Eun-Hwan Jung, 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.



Ref. No.: LR500112207I

History of this test report

Report No.	Version	Description	Issued Date
LR500111906M	1.0	Initial issue of report	June 27, 2019
LR500112107M	2.0	Change the name of the applicant	July 27, 2021
LR500112207I	3.0	Change the name of the applicant	July 21, 2022

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1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.

Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822

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	200723-0 2022-09-28 ECT accredited I	
RRA	KOREA	KR0049	-	EMC accredited Lab.
FCC	U.S.A	649054	2023-01-25	FCC CAB
VCCI	JAPAN	C-4948,	2023-09-10	VCCI registration
VCCI	JAPAN	T-2416,	2023-09-10	VCCI registration
VCCI	JAPAN	R-4483(10 m),	2023-08-15	VCCI registration
VCCI	JAPAN	G-847	2022-12-13	VCCI registration
IC	CANADA	5799A-1	2022-10-18	IC filing

Ref. No.: LR500112207I

2. Information about test item

2-1 Client & Manufacturer

Company name : SJI CO., LTD

Address : 54-53, Dongtanhana 1-gil, Hwaseong-si, Gyeonggi-do, Republic of korea

Tel / Fax : TEL No : +82-10-9719-1479 / FAX No : +82-31-239-8194

2-2 Equipment Under Test (EUT)

Model name : IET10RC4

Serial number : Identical prototype

Date of receipt : June 10, 2019

EUT condition : Pre-production, not damaged

Antenna type

Steel wire Antenna - Max Gain 2.9 dBi (Sigfox)

Chica Actor May Gain 2.5 dBi (PT BLE) (90

Chip Antenna - Max Gain 2.5 dBi (BT BLE) (802.11 b/g/n/)

2412 MHz ~ 2462 MHz (802.11 b/g/n/)

Frequency Range : 2402 MHz ~ 2480 MHz (BT BLE)

920.1375 MHz ~ 922.6625 MHz (Sigfox)

RF output power : Max 22.19 dBm – Conducted(Sigfox)

Max 3.71 dBm – Conducted(BT BLE)

Max 17.40 dBm – Conducted(802.11 b)

Max 21.36 dBm – Conducted(802.11 g)

Max 21.09 dBm - Conducted(802.11 n20)

11 (802.11 b/g/n)

Number of channels : 40 (BT BLE)

54 (Sigfox)

Type of Modulation : GFSK, CCK, DQPSK, DBPSK for DSSS,

64QAM, 16QAM, QPSK, BPSK for OFDM

Power Source : DC 3.6 V Firmware Version : V3.0.0

2-3 Tested frequency

802.11 b/g/n	LOW	MID	HIGH	
Frequency (MHz) 802.11 b/g/n	2412	2437	2462	
Frequency (MHz) BLE	2402	2442	2480	
Frequency (MHz) Sigfox	920.1375	921.3875	922.6625	

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		N/A
15.247(b)	Transmitter Peak Output Power	< 1 Watt	Condonal	N/A
15.247(d)	Transmitter Power Spectral Density	ty < 8 dBm @ 3 kHz		N/A
15.247(d)	Band Edge	> 20 dBc		N/A
15.209	Field Strength of Harmonics	Emission	Radiated	С
15.207	AC Conducted Emissions	Emissions	Conducted	NA
15.203	Antenna requirement		-	С

 $\underline{\textit{Note 1}}$: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

 $\underline{Note\ 2}$: The data in this test report are traceable to the national or international standards.

<u>N/A</u>: The product replaces this test with a certificate using an authenticated module.

→ Antenna Requirement

SJI CO., LTD FCC ID: 2AS8LIET10RC4 unit complies with the requirement of §15.203. The antenna type is Steel wire ,Chip 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, 30 MHz

 $VBW = 100 \text{ kHz} (VBW \ge RBW)$ Sweep = auto

Trace = max hold Detector function = peak

Measurement Data: N/A

Minimum Standard:

6 dB Bandwidth > 500 kHz

Measurement Setup

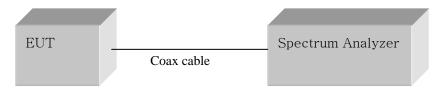


Figure 1: Measurement setup for the carrier frequency separation

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 = 1MHz Span = auto

 $VBW = 3MHz (VBW \ge 3 * RBW)$ Sweep = auto

Detector function = peak

Measurement Data: N/A

Minimum Standard:

Peak output power	< 1 W
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Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

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:

 $RBW = 3 \text{ kHz} (3\text{kHz} \le RBW \le 100\text{kHz})$ Span = 1.5 times the DTS bandwidth

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

Detector function = peak Trace = max hold

Measurement Data: N/A

Minimum Standard:

Power Spectral Density	< 8 dBm @ 3 kHz BW
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Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

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, 80 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 = VBW = 1 MHz, Sweep=Auto

Average: RBW = 1 MHz, VBW=10 Hz, Sweep=Auto

Measurement Distance: 3 m

Polarization: Horizontal / Vertical

Measurement Data: N/A

- 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

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

Trace = max hold

Measurement Data: N/A

- 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
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Measurement Setup

Same as the Chapter 3.2.1 (Figure 1)

3.2.6 Radiated Spurious Emissions

Procedure:

The EUT was placed on a 0.8 m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = $9 \text{ kHz} \sim 10^{\text{th}} \text{ harmonic.}$

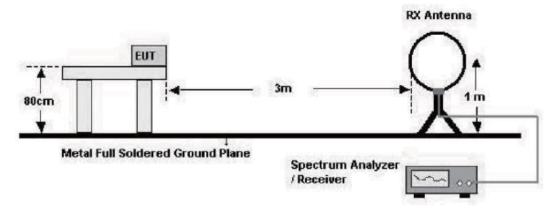
 $RBW = 100 \text{ kHz} (30 \text{ MHz} \sim 1 \text{ GHz})$ $VBW \geq RBW$

= 1 MHz $(1 \text{ GHz} \sim 10^{\text{th}} \text{ harmonic})$

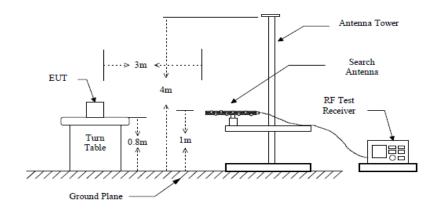
Span = 100 MHz Detector function = peak

Trace = \max hold Sweep = auto

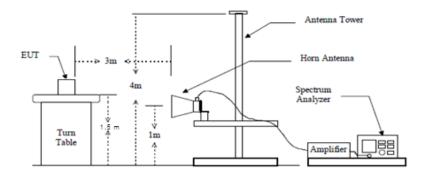
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



Measurement Data: Complies

- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20 dB below limit include from 9 kHz to 30 MHz.

Note: Attach worst-case data in accordance with ANSI C63.10-2013 6.3.4.

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 470-80 6 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)

Framuspay	Read	ding		Correction		Limits		Result		Margin	
Frequency	[dBu	V/m]	Pol.	Factor		[dBuV/m]		[dBuV/m]		[d	в]
[MHz]	AV /	' Peak		Antenna Amp.Gain+Cable		AV / Peak		AV / Peak		AV /	Peak
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
*No emissions were detected at a level greater than 20 dB below limit.											
-	-	-	-	-	-	-	-	-	-	1	-

^{*}No emissions were detected at a level greater than 20 dB below limit.

Radiated Emissions - 802.11 b mode



4, Songjuro 236Beon-gil, yanggi-myeon,

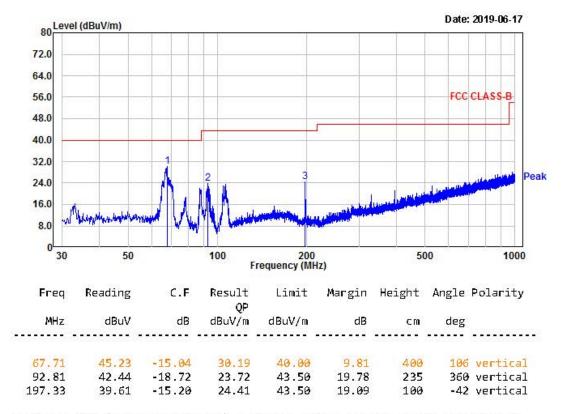
Yongin-si, Gyeonggi-do, Korea

Tel: +82-31-3236008,9 Fax: +82-31-3236010

www.ltalab.com

EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Tested by: JUNG E H Test Mode : 802.11 b mode



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



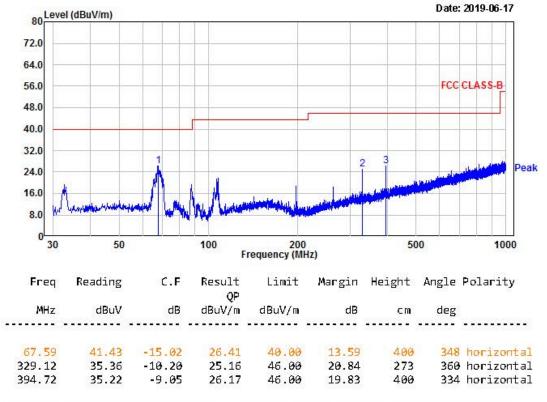
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Yongin-si, Gyeonggi-do, Korea

Tel: +82-31-3236008,9 Fax: +82-31-3236010 www.ltalab.com

EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : 802.11 b mode Tested by: JUNG E H



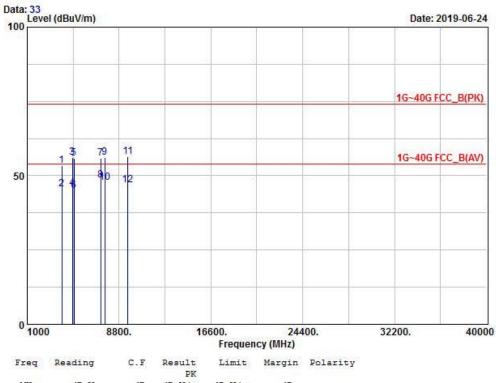
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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Fax:+82-31-3236010

EUT/Model No.: IET10RC4 Test Mode: 802.11 b mode
Tested by : Eunhwan Jung Temp/Humi:



	Freq	Reading	C.F	Result PK	Limit	Margin	Polarity
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	3927.70	38.70	14.62	53.32	74.00	20.68	VERTICAL
2	3927.70	30.90	14.62	45.52	54.00	8.48	VERTICAL
3	4822.50	38.30	17.84	56.14	74.00	17.86	HORIZONTAL
4	4822.50	27.80	17.84	45.64	54.00	8.36	HORIZONTAL
5	4964.90	37.70	18.06	55.76	74.00	18.24	VERTICAL
6	4964.90	26.80	18.06	44.86	54.00	9.14	VERTICAL
7	7236.30	27.40	28.44	55.84	74.00	18.16	HORIZONTAL
8	7236.30	20.10	28.44	48.54	54.00	5.46	HORIZONTAL
9	7596.60	25.20	30.88	56.08	74.00	17.92	HORIZONTAL
10	7596.60	16.80	30.88	47.68	54.00	6.32	HORIZONTAL
11	9563.20	27.10	29.36	56.46	74.00	17.54	VERTICAL
12	9563.20	17.40	29.36	46.76	54.00	7.24	VERTICAL

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

Radiated Emissions - 802.11 g mode



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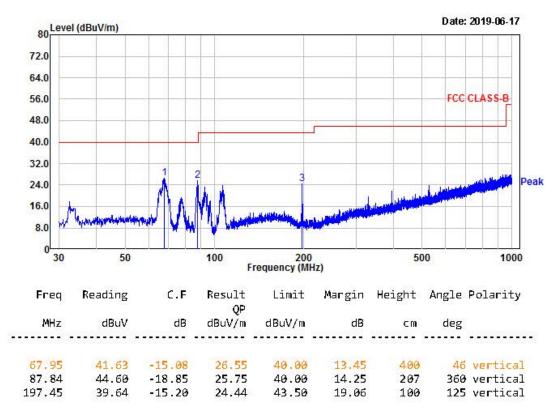
Tel: +82-31-3236008,9 Fax: +82-31-3236010

www.ltalab.com

EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : 802.11 g mode Tested by: JUNG E H

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



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Yongin-si, Gyeonggi-do, Korea

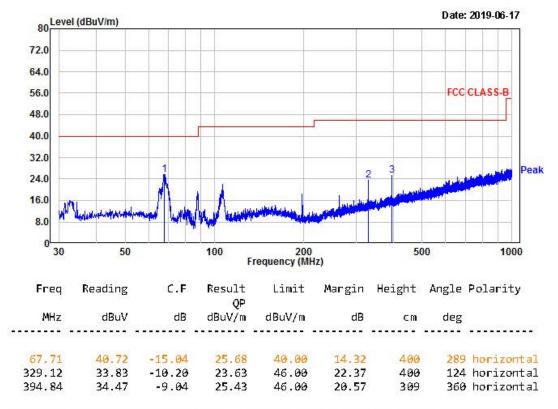
Tel: +82-31-3236008,9 Fax: +82-31-3236010

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EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : 802.11 g mode Tested by: JUNG E H

.....



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



8 2966.10

9 5332.70

10 5332.70

11 7233.60

12 7233.60

38.40

36.00

27.70

27.40

18.30

7.40

19.03

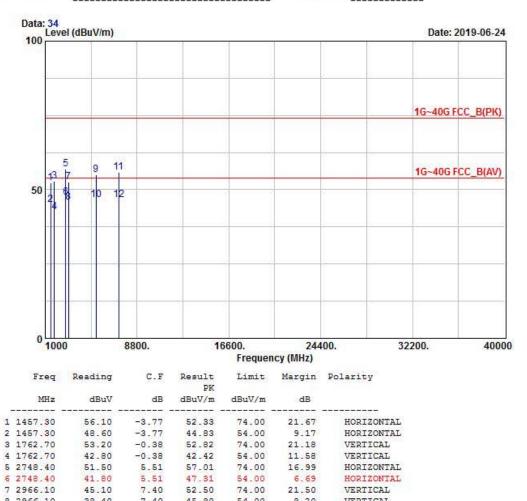
19.03

28.39

28.39

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EUT/Model No.: IET10RC4 Test Mode: 802.11 g mode Temp/Humi: Tested by : Eunhwan Jung



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

45.80

55.03

46.73

55.79

46.69

54.00

74.00

54.00

74.00

54.00

8.20

7.27

7.31

18.97

18.21

VERTICAL

VERTICAL

VERTICAL

HORIZONTAL

HORIZONTAL

Radiated Emissions (Below 1 GHz) - 802.11 n mode



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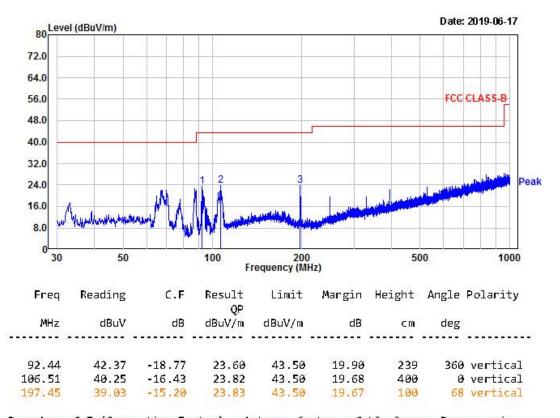
Yongin-si, Gyeonggi-do, Korea

Tel: +82-31-3236008,9 Fax: +82-31-3236010

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EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : 802.11 n mode Tested by: JUNG E H



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



394.96

34.62

-9.05

4, Songjuro 236Beon-gil, yanggi-myeon,

Yongin-si, Gyeonggi-do, Korea

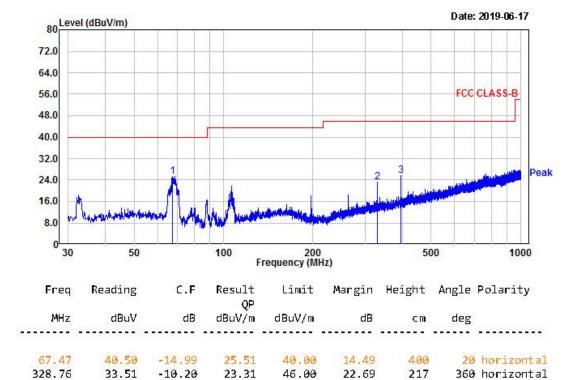
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EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : 802.11 n mode Tested by: JUNG E H

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

46.00

20.43

368

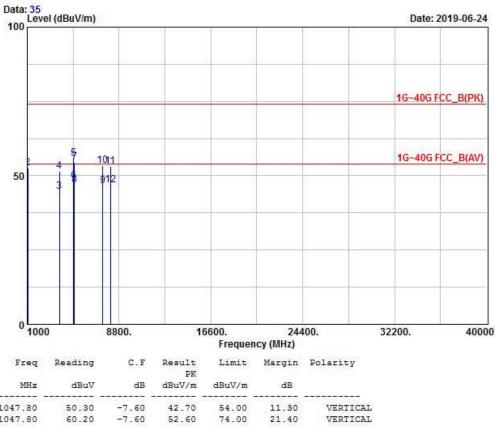
360 horizontal

25.57



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Fax:+82-31-3236010

EUT/Model No.: IET10RC4 Test Mode: 802.11 n20 mode
Tested by : Eunhwen Jung Temp/Humi:



1 1047.80 2 1047.80 3 3747.50 30.20 14.47 44.67 54.00 9.33 HORIZONTAL 22.53 4 3747.50 37.00 14.47 51.47 74.00 HORIZONTAL 37.70 5 4922.40 18.04 55.74 74.00 18.26 HORIZONTAL 6 4922.40 30.20 18.04 48.24 54.00 5.76 HORIZONTAL 36.40 7 5022.70 18.15 54.55 74.00 19.45 HORIZONTAL 8 5022.70 28.70 18.15 46.85 54.00 7.15 HORIZONTAL 9 7422.90 15.50 30.98 46.48 54.00 7.52 VERTICAL 10 7422.90 22.40 30.98 53.38 74.00 20.62 VERTICAL 11 8066.00 25.40 27.75 53.15 74.00 20.85 VERTICAL 12 8066.00 19.10 27.75 46.85 54.00 7.15 VERTICAL

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

Radiated Emissions - BLE mode



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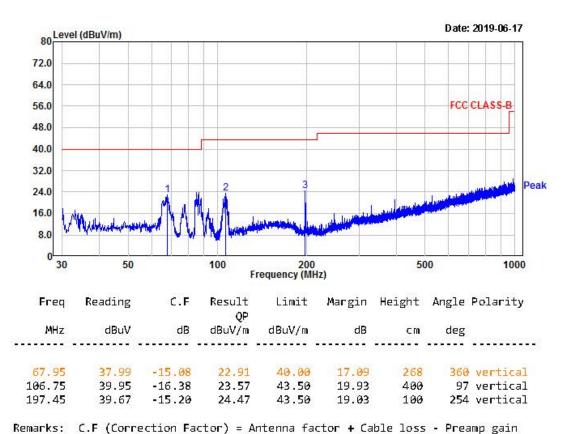
Yongin-si, Gyeonggi-do, Korea

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EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : BT BLE mode Tested by: JUNG E H

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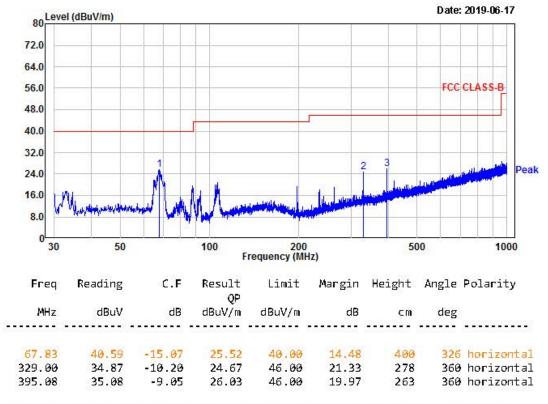
Yongin-si, Gyeonggi-do, Korea

Tel: +82-31-3236008,9 Fax: +82-31-3236010

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EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : BT BLE mode Tested by: JUNG E H

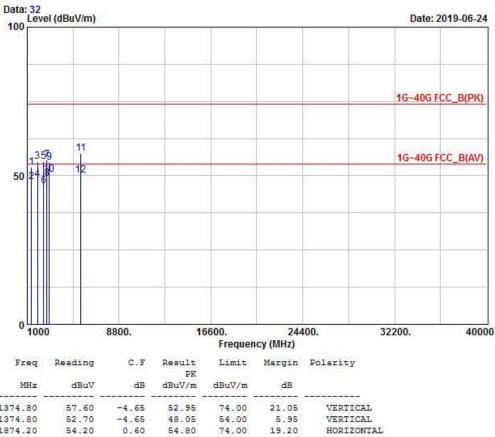


Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



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EUT/Model No.: IET10RC4 Test Mode: BT mode
Tested by : Eunhwan Jung Temp/Humi:



1 1374.80 2 1374.80 3 1874.20 19.20 4 1874.20 48.30 0.60 48.90 54.00 5.10 HORIZONTAL 5 2380.20 51.60 3.22 54.82 74.00 19.18 HORIZONTAL 6 2380.20 43.30 3.22 46.52 54.00 7.48 HORIZONTAL 7 2683.50 50.10 5.28 55.38 74.00 18.62 HORIZONTAL 8 2683.50 43.70 5.28 48.98 54.00 5.02 HORIZONTAL 9 2866.30 48.20 6.31 54.51 74.00 19.49 VERTICAL 10 2866.30 44.00 6.31 50.31 54.00 3.69 VERTICAL 11 5573.20 37.60 19.85 57.45 74.00 16.55 VERTICAL 12 5573.20 30.20 19.85 50.05 54.00 3.95 VERTICAL

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

Radiated Emissions - Sigfox mode



4, Songjuro 236Beon-gil, yanggi-myeon,

Yongin-si, Gyeonggi-do, Korea

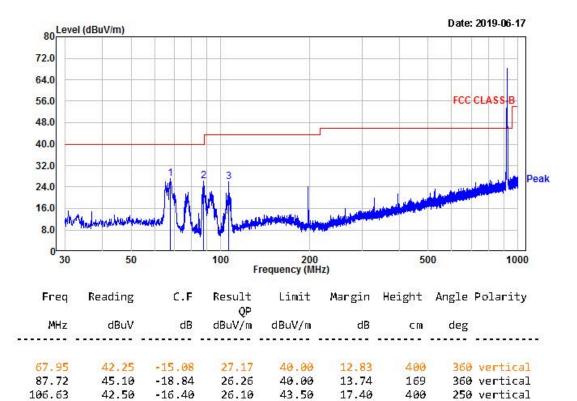
Tel: +82-31-3236008,9 Fax: +82-31-3236010

www.ltalab.com

EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : Sigfox mode Tested by: JUNG E H

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



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Yongin-si, Gyeonggi-do, Korea

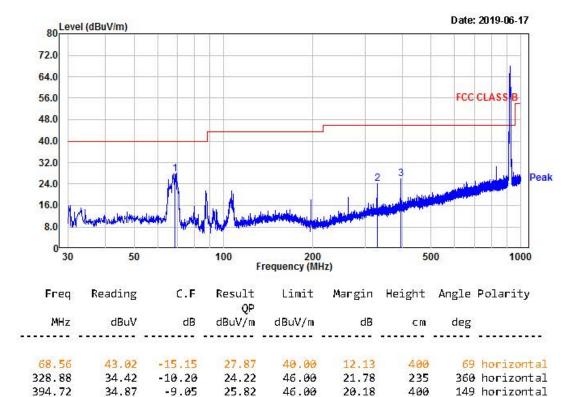
Tel: +82-31-3236008,9 Fax: +82-31-3236010

www.ltalab.com

EUT/Model No.: IET10RC4 Temp/Humi: 24 / 42

Test Mode : Sigfox mode Tested by: JUNG E H

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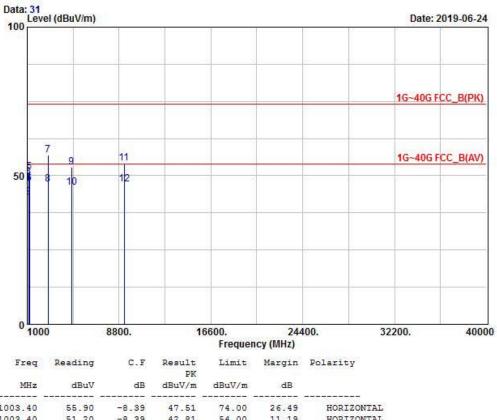
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain



EMI I Chamber of LTA CO.,LTD.

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Yongin-si, Gyeonggi-do, Korea Autho.by NVLAP
Tel:+82-31-3236008,9 www.ltalab.com
Fax:+82-31-3236010

EUT/Model No.: IET10RC4 Test Mode: Sigfox mode
Tested by : Eunhwan Jung Temp/Humi:



	Freq	Reading	C.F	Result PK	Limit	Margin	Polarity
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	1003.40	55.90	-8.39	47.51	74.00	26.49	HORIZONTAL
2	1003.40	51.20	-8.39	42.81	54.00	11.19	HORIZONTAL
3	1137.00	56.20	-6.48	49.72	74.00	24.28	VERTICAL
4	1137.00	54.30	-6.48	47.82	54.00	6.18	VERTICAL
5	1203.50	57.41	-6.23	51.18	74.00	22.82	HORIZONTAL
6	1203.50	53.70	-6.23	47.47	54.00	6.53	HORIZONTAL
7	2767.80	51.42	5.63	57.05	74.00	16.95	HORIZONTAL
8	2767.80	41.60	5.63	47.23	54.00	6.77	HORIZONTAL
9	4766.20	35.24	17.60	52.84	74.00	21.16	VERTICAL
10	4766.20	28.51	17.60	46.11	54.00	7.89	VERTICAL
11	9227.50	25.98	28.34	54.32	74.00	19.68	VERTICAL
12	9227.50	18.90	28.34	47.24	54.00	6.76	VERTICAL

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

3.2.6 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: NA

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

Class B

Frequency Range	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

Ref. No.: LR500112207I

APPENDIX TEST EQUIPMENT USED FOR TESTS

	Use	Description	Model No.	Serial No.	Manufacturer	Interval	Next Cal. Date
1		Signal Analyzer (9 kHz ~ 30 GHz)	FSV30	100757	R&S	1 year	2022-09-06
2		Signal Generator (~3.2 GHz)	8648C	3623A02597	HP	1 year	2023-03-16
3		SYNTHESIZED CW GENERATOR	83711B	US34490456	HP	1 year	2023-03-16
4		Attenuator (3 dB)	8491A	37822	HP	1 year	2022-09-06
5		Attenuator (10 dB)	8491A	63196	НР	1 year	2022-09-06
6		EMI Test Receiver (~7 GHz)	ESCI7	100722	R&S	1 year	2022-09-06
7		RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	НР	1 year	2022-09-06
8		RF Amplifier (1~26.5 GHz)	8449B	3008A02126	НР	1 year	2023-03-16
9		Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2022-09-06
10		DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2024-03-18
11		DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2024-03-18
12		TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2023-03-20
13		Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2023-03-16
14		Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
15		DC Power Supply	6674A	3637A01657	Agilent	-	-
17		Power Meter	EPM-441A	GB32481702	НР	1 year	2023-03-16
18		Power Sensor	8481A	3318A94972	НР	1 year	2022-09-06
19		Audio Analyzer	8903B	3729A18901	НР	1 year	2022-09-06
20		Modulation Analyzer	8901B	3749A05878	НР	1 year	2022-09-06
21		TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2022-09-06
22		Stop Watch	HS-3	812Q08R	CASIO	2 year	2024-03-18
23		LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2022-09-06
24		Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2023-03-16
25		UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2023-03-16
26		Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2023-03-16
27		Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2023-03-16
28		OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2023-03-16
29		Signal Generator(100 kHz ~ 40 GHz)	SMB100A03	177621	R&S	1 year	2023-03-16
30		Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2023-03-16
31		Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	2 year	2023-02-26