

65, Sinwon-ro, Ye Suwon-si, Gyeonggi-c TEL: 82-31-285-0894 F <u>www.kctl.</u>	lo, 16677, Korea AX: 82-505-299-8311	Report No.: KR21-SRF0031 Page (1) of (24)	KCTL		
1. Client					
∘ Name	: RIMSCIENCE CO	.Ltd.			
<ul> <li>Address</li> <li>: 601(#602-1), 53, Chungjeong-ro, Seodaemun-gu, Seoul, Republic of Korea</li> </ul>					
<ul> <li>Date of Receipt</li> </ul>	: 2021-01-25				
2. Use of Report	: Class II Permissive	e change			
3. Name of Product / I	Model : Epidu	ıral Instrument / EPIA-	HU-B		
4. Manufacturer / Count	ry of Origin : RIMS	SCIENCE CO.Ltd. / K	orea		
5. FCC ID	: 2AXY	/N-EPIA-HU-B			
6. Date of Test	: 2021-01-27 to 202	1-02-02			
7. Location of Test : Permanent Testing Lab 🗆 On Site Testing (Address: Address of testing location					
8. Test method used	: FCC Part 15 Subp	art C, 15.247			
9. Test Results	: Refer to the test re	esult in the test report			

A ffirm ation	Tested by		Technical Manager	
Affirmation	Name : Eunseong Lim	(Signature)	Name : Heesu Ahn	(Signature)
		U		2021-02-04
	K	CTL I	IC.	
	ult of the sample which was t quality. This test report sl		· ·	-

위변조방지/진위확인

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#### **REPORT REVISION HISTORY**

Date	Revision	Page No
2021-02-04	Originally issued	-

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#### General remarks for test reports

Nothing significant to report.

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### 1. General information

Client	: RIMSCIENCE CO.Ltd.
Address	: 601(#602-1), 53, Chungjeong-ro, Seodaemun-gu, Seoul, Republic of Korea
Manufacturer	: RIMSCIENCE CO.Ltd.
Address	: 601(#602-1), 53, Chungjeong-ro, Seodaemun-gu, Seoul, Republic of Korea
Factory	: Seawon Meditech Co., Ltd.
Address	: (Dodang-dong) 33, Bucheon-ro 298beon-gil, Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea
Laboratory	: KCTL Inc.
Address	: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations	: FCC Site Designation No: KR0040, FCC Site Registration No: 687132
	VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
	Industry Canada Registration No. : 8035A
	KOLAS No.: KT231

#### 2. Device information

Equipment under test	:	Epidural Instrument
Model	:	EPIA-HU-B
Derivative model	:	EPIA-AN-B
Frequency range	:	2 402 Mz ~ 2 480 Mz (Bluetooth Low Energy)
Modulation technique	:	GFSK (Bluetooth Low Energy)
Number of channels	:	40 ch (Bluetooth Low Energy)
Power source	:	DC 3.0 V
Antenna specification	:	Chip Antenna
Antenna gain	:	<b>3.50</b> dBi
Software version	:	EPIA_SW_1.0.0
Hardware version	:	EPIA_HW_1.00
Test device serial No.	:	N/A
Operation temperature	:	10 °C ~40 °C
•		

#### **Accessory** information 2.1. Serial No. Equipment Manufacturer Model **Power source** Data Cable RIMSCIENCE Co., Ltd. **EPIA-CABLE** \_ -Lithium Metal Panasonic CR123A 3.0 V \_ Battery

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### 2.2. Information about derivative model

The difference between basic model and derivative models is: The basic and derivative model are electrically identical. In the model name, 'HU' is for humans and 'AN' is for animals.

#### 2.3. Frequency/channel operations

This device contains the following capabilities: Bluetooth Low Energy

Ch.	Frequency (Mb)
00	2 402
19	2 440
39	2 480

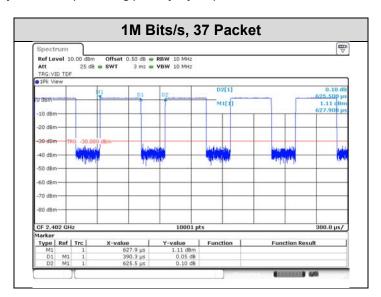
Table 2.3.1. Bluetooth Low Energy

#### 2.4. Duty Cycle Factor

Test mode	Period	On time	Duty cycle		Duty Cycle Factor	
Test mode	<b>(</b> ms <b>)</b>	<b>(</b> ms <b>)</b>	(Linear)	(%)	(dB)	
1M Bits/s, 37 Packet	0.626	0.390	0.624 0	62.40	2.05	

#### Notes.

- 1. Duty cycle (Linear) = Ton time / Period
- 2. DCF(Duty cycle factor) = 10log(1/duty cycle)



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### 3. Antenna requirement

Requirement of FCC part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The transmitter has permanently attached Chip Antenna(internal antenna) on board.

- The E.U.T Complies with the requirement of §15.203, §15.247.

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### 4. Summary of tests

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FCC Part section(s) Parameter		Test Condition	Test results
15.247(b)(3)	Maximum Peak Output Power Peak Power Spectral Density		Pass
15.247(e)			N/T <sup>(Note1)</sup>
15.247(a)(2)	6 dB Channel Bandwidth	Conducted	N/T <sup>(Note1)</sup>
15.207(a)	AC Conducted Emissions	-	N/A <sup>(Note2)</sup>
15.247(d)	Conducted Spurious Emissions		N/T <sup>(Note1)</sup>
15.205(a),	Spurious emission	-	Pass
15.209(a), 15.247(d)	Band-edge, restricted band	Radiated	Pass

Notes: (N/T: Not Tested, N/A: Not Applicable)

- 1. These test items were performed. (FCC ID: 2AXYN-EPIA-HU-B, Test Report No. KR21-SRF0022 issued on January 15, 2021 by KCTL Inc.)
- 2. This test is not applicable because the EUT using DC Battery.
- 3. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 4. According to exploratory test no any obvious emission were detected from 9 klz to 30 Mlz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- 5. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation
- 6. The worst-case data rate were: 1M Bits/s, Packet length 37 Bytes
- 7. The test procedure(s) in this report were performed in accordance as following.
  - + ANSI C63.10-2013
  - KDB 558074 D01 v05r02

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### 5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of k=2 to indicated a 95 % level of confidence. The measurement data shown herein meets of exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expa	anded uncertainty ( $\pm$ )	
Conducted RF power	<b>1.3</b> dB		
Conducted spurious emissions	<b>1.3</b> dB		
	9 kHz ~ 30 MHz:	<b>2.3</b> dB	
Radiated spurious emissions	30 MHz ~ 300 MHz	<b>5.4</b> dB	
	300 MHz ~ 1 000 MHz	<b>5.5</b> dB	
	Above 1 GHz	<b>6.7</b> dB	
Conducted emissions	9 kHz ~ 150 kHz	<b>3.7</b> dB	
Conducted emissions	150 kHz ~ 30 MHz	<b>3.3</b> dB	

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#### 6. Test results 6.1. Maximum peak output power Test setup

EUT Attenuator Power sensor	EIII		Attenuator		Power sensor
		l		J	

#### <u>Limit</u>

According to §15.247(b)(3), For systems using digital modulation in the 902-928 Mb, 2 400-2 483.5 Mb, and 5 725-5 850 Mb bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

According to \$15.247(b)(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Test procedure

ANSI C63.10 - Section 11.9 Used test method is section 11.9.1.3 and 11.9.2.3.1

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#### Test settings

#### General

Section 15.247 permits the maximum conducted (average) output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth (see ANSI C63.10 for measurement guidance).

When using a spectrum analyzer or EMI receiver to perform these measurements, it shall be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW to set a bin-to-bin spacing of  $\leq$  RBW/2 so that narrowband signals are not lost between frequency bins.

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level. The intent is to test at 100 % duty cycle; however a small reduction in duty cycle (to no lower than 98 %) is permitted, if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

If continuous transmission (or at least 98 % duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level, with the transmit duration as long as possible, and the duty cycle as high as possible during which sweep triggering/signal gating techniques may be used to perform the measurement over the transmission duration.

#### 11.9.1. Maximum peak conducted output power

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

#### 11.9.1.1. RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW  $\geq$  DTS bandwidth.
- b) Set  $VBW \ge [3 \times RBW]$ .
- c) Set span  $\geq$  [3  $\times$  RBW].
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

#### 11.9.1.3. PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth an shall use a fast-responding diode detector.

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#### 11.9.2.3.1. Measurement using a power meter (PM)

Method AVGPM is a measurement using an RF average power meter, as follows:

- As an alternative to spectrum analyzer or EMI receiver measurements, measurements may a) be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:
  - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cvcle.
  - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
  - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- If the transmitter does not transmit continuously, measure the duty cycle, D, of the b) transmitter output signal as described in 11.6.
- Measure the average power of the transmitter. This measurement is an average over both c) the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding [10 log(1/D)], where D is the duty cycle Notes:

A peak responding power sensor is used, where the power sensor system video bandwidth is greater than the occupied bandwidth of the EUT.

#### Test results

- (171)	Data rate	Packet length	Measured outp	out power (dBm)	
Frequency(Mb)	(Bits/s)	(Bytes)	Peak	Average	Limit(dBm)
2 402	1M	37	0.83	0.55	
2 440	1M	37	0.80	0.54	30
2 480	1M	37	0.73	0.46	

#### Note

Measured output power(Average) = reading value of average power + D.C.F

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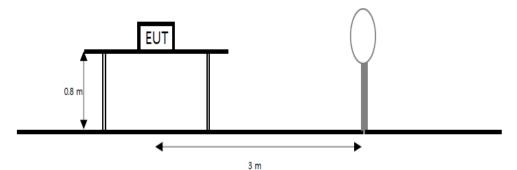
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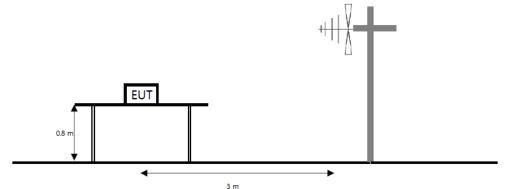
### 6.2 Spurious Emission, Band Edge and Restricted bands

#### <u>Test setup</u>

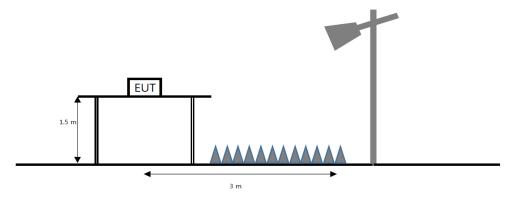
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 Mz to 1 Gz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1  $\mathbb{G}_{\mathbb{Z}}$  to the tenth harmonic of the highest fundamental frequency or to 40  $\mathbb{G}_{\mathbb{Z}}$  emissions, whichever is lower.



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#### <u>Limit</u>

According to section 15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (Mb)	Field strength (µN/m)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

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

According to section 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 – 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 – 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 – 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 – 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 – 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 – 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 – 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 – 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525	2 483.5 – 2 500	17.7 - 21.4
8.376 25 - 8.386 75	25	2 690 – 2 900	22.01 - 23.12
8.414 25 - 8.414 75	156.7 - 156.9	3 260 – 3 267	23.6 - 24.0
12.29 - 12.293	162.012 5 - 167.17	3 332 – 3 339	31.2 - 31.8
12.519 75 - 12.520 25	167.72 - 173.2	3 345.8 – 3 358	36.43 - 36.5
12.576 75 - 12.577 25	240 - 285	3 600 – 4 400	Above 38.6
13.36 - 13.41	322 - 335.4		

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 Mb, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1 000 Mb, compliance with the emission limits in section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in section 15.35 apply to these measurements.

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#### Test procedure

ANSI C63.10-2013

#### Test settings

#### Peak field strength measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = as specified in table
- 3. VBW  $\geq$  (3×RBW)
- 4. Detector = peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Allow sweeps to continue until the trace stabilizes

Table. INDW as a function of frequency								
Frequency	RBW							
9 kHz to 150 kHz	200 Hz to 300 Hz							
0.15 Mt to 30 Mt	9 kHz to 10 kHz							
30 MHz to 1 000 MHz	100 kHz to 120 kHz							
> 1 000 MHz	1 MHz							

#### Table. RBW as a function of frequency

#### Average field strength measurements

#### Trace averaging with continuous EUT transmission at full power

If the EUT can be configured or modified to transmit continuously ( $D \ge 98\%$ ), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

- 1. RBW = 1  $M_{2}$  (unless otherwise specified).
- 2. VBW ≥ (3×RBW).
- 3. Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- 4. Averaging type = power (i.e., rms):
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
- 5. Sweep time = auto.
- 6. Perform a trace average of at least 100 traces.

# Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT ( $D \ge 98\%$ ) cannot be achieved and the duty cycle is constant (duty cycle variations are less than ±2%), then the following procedure shall be used:

- 1. The EUT shall be configured to operate at the maximum achievable duty cycle.
- 2. Measure the duty cycle D of the transmitter output signal as described in 11.6.
- 3. RBW = 1 MHz (unless otherwise specified).
- 4. VBW  $\geq$  [3  $\times$  RBW].
- 5. Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- 6. Averaging type = power (i.e., rms):

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- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
- 2) Some instruments require linear display mode to use linear voltage averaging. Log or  $\,\mathrm{dB}\,$  averaging shall not be used.
- 7. Sweep time = auto.
- 8. Perform a trace average of at least 100 traces.
- 9. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
  - 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is [10 log (1 / D)], where D is the duty cycle.
  - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is [20 log (1 / D)], where D is the duty cycle.
  - If a specific emission is demonstrated to be continuous (D ≥ 98%) rather than turning ON and OFF with with the transmit cycle, then no duty cycle correction is required for that emission.

#### Notes:

- 1. f < 30 Mz, extrapolation factor of 40 dB/decade of distance.  $F_d = 40 \log(D_m/Ds)$
- f≥30 Mz, extrapolation factor of 20 dB/decade of distance. F<sub>d</sub> = 20log(D<sub>m</sub>/Ds) Where:
  - $F_d\text{=}$  Distance factor in  $\,\mathrm{dB}$
  - D<sub>m</sub>= Measurement distance in meters
  - D<sub>s</sub>= Specification distance in meters
- 2. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or  $F_d(dB)$
- 3. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
- 4. Average test would be performed if the peak result were greater than the average limit.
- 5.<sup>1)</sup> means restricted band.

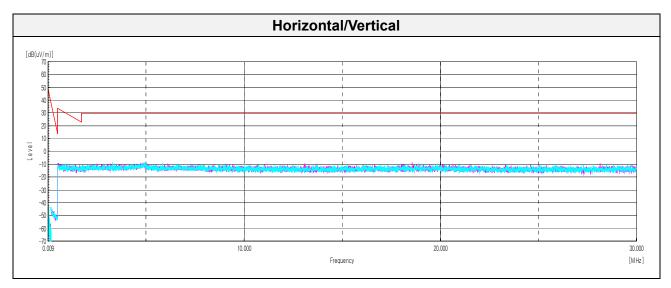
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#### Test results (Below 30 Mb) –Worst case: 1 MBits/s(37 Bytes) 2 402 Mb

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
No spurious emissions were detected within 20 dB of the limit.									



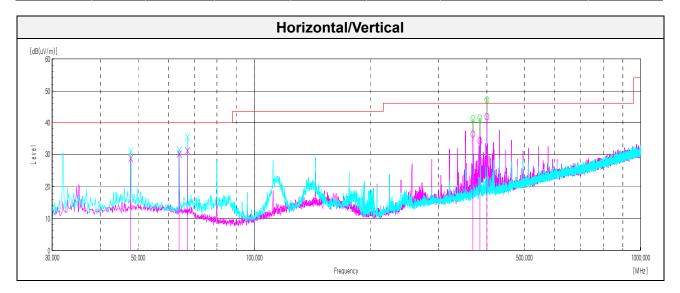
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#### Test results (Below 1 000 Mz) – Worst case: 1 MBits/s(37 Bytes) 2 402 Mz

Frequency	Pol.	Reading	Factor	Amp. + Cable	DCF	Result		Margin
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB( <i>µ</i> V/ <b>m</b> ))	(dB( <i>µ</i> V/ <b>m</b> ))	(dB)
				Quasi peak o	data			
47.95	V	40.90	18.36	-30.35	-	28.91	40.00	11.09
63.95	V	43.10	17.15	-30.04	-	30.21	40.00	9.79
67.22	V	44.50	16.69	-29.98	-	31.21	40.00	8.79
368.05 <sup>1)</sup>	Н	41.80	20.80	-26.22	-	36.38	46.00	9.62
383.93 <sup>1)</sup>	Н	39.30	21.15	-26.08	-	34.37	46.00	11.63
400.06 <sup>1)</sup>	Н	46.40	21.50	-25.93	-	41.97	46.00	4.03



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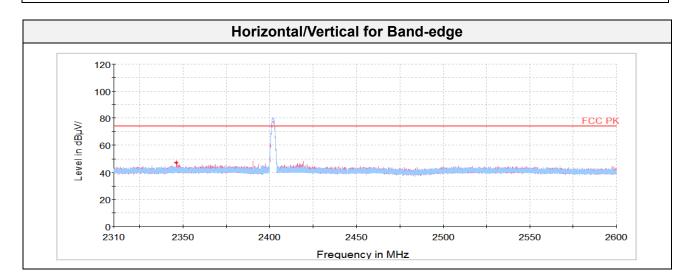


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#### Test results (Above 1 000 ₩b)\_1 MBits/s(37 Bytes)

#### 2 402 Mb

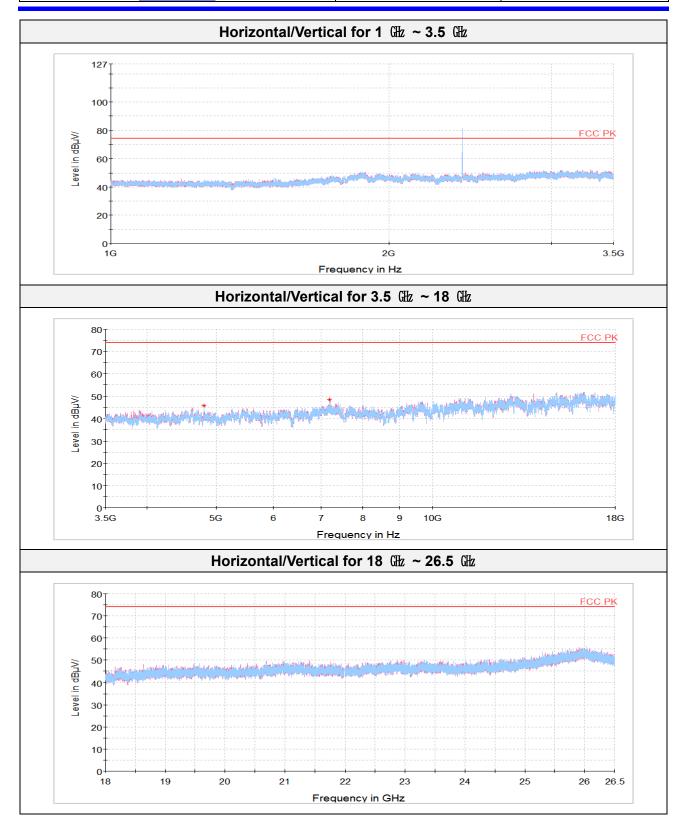
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
2 346.051)	V	43.49	31.92	-28.09	-	47.32	74.00	26.68
4 804.09 <sup>1)</sup>	V	65.20	33.78	-53.26	-	45.72	74.00	28.28
7 205.20	V	63.84	35.30	-50.79	-	48.35	74.00	25.65
Average Data								
		No spuriou	is emissions	were detecte	d within 20	dB of the lim	it.	



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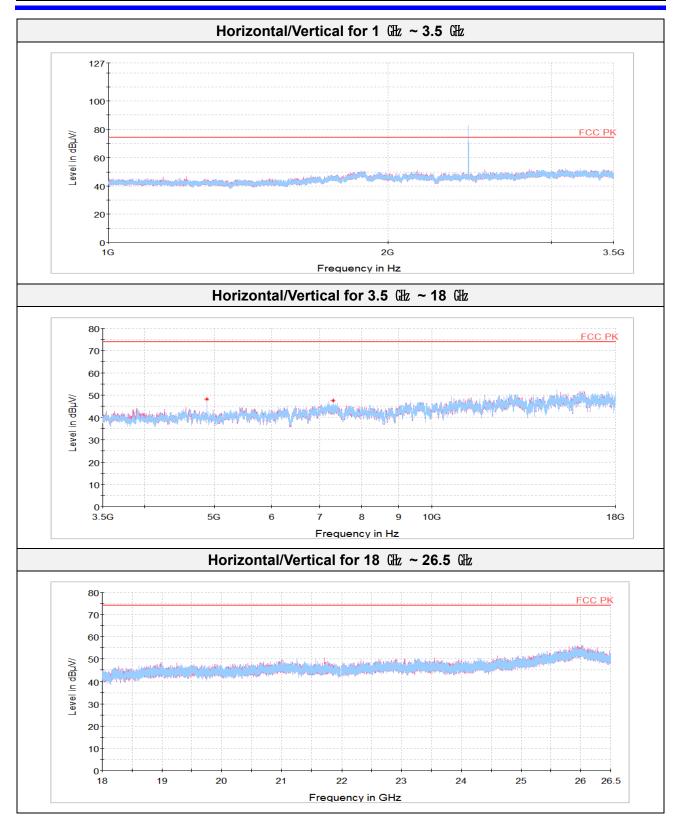
#### 2 440 MHz

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
4 879.31 <sup>1)</sup>	V	67.47	33.83	-53.14	-	48.16	74.00	25.84
7 318.94 <sup>1)</sup>	Н	62.83	35.30	-50.76	-	47.37	74.00	26.63
Average Data								
		No spuriou	is emissions	were detecte	d within 20	dB of the lim	it.	

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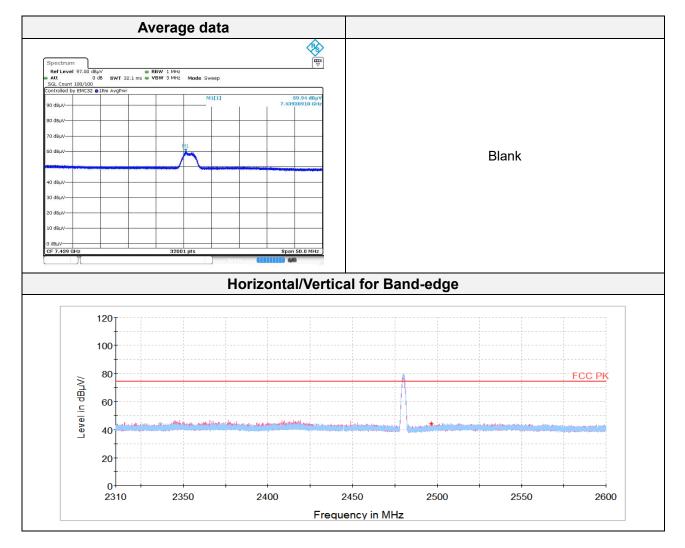
65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 <u>www.kctl.co.kr</u> Report No.: KR21-SRF0031



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#### 2 480 MHz

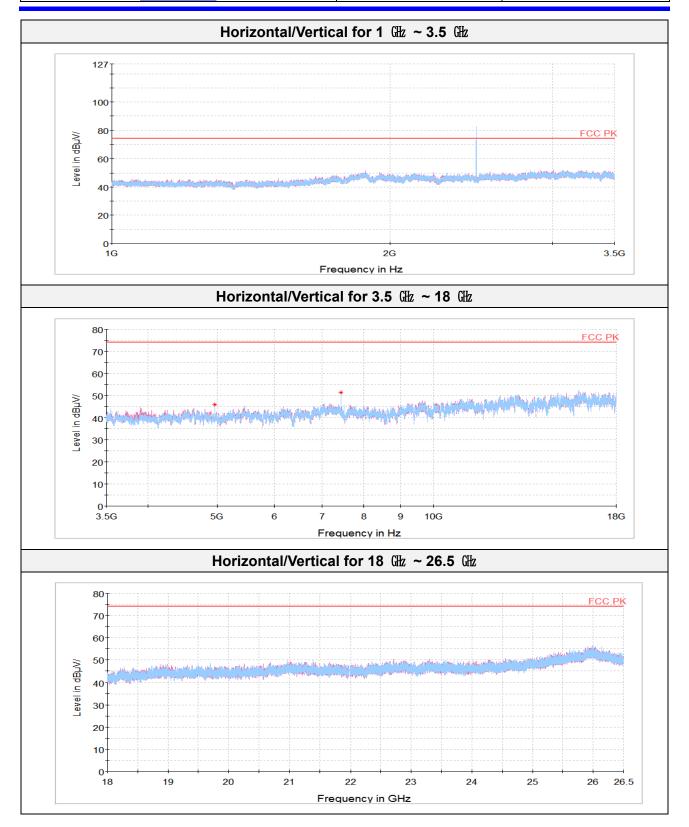
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak data								
2 496.46 <sup>1)</sup>	Н	40.10	32.19	-27.97	-	44.32	74.00	29.68
4 959.52 <sup>1)</sup>	V	65.36	33.88	-53.38	-	45.86	74.00	28.14
7 439.39 <sup>1)</sup>	V	66.63	35.30	-50.74	-	51.19	74.00	22.81
Average Data								
7 439.39 <sup>1)</sup>	V	59.94	35.30	-50.74	2.05	46.55	54.00	7.45



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### 7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date								
Spectrum Analyzer	R&S	FSV40	100988	21.12.23								
EMI TEST RECEIVER	R&S	ESCI7	100732	21.03.04								
Loop Antenna	R&S	HFH2-Z2	100355	22.08.21								
Bi-Log Antenna	SCHWARZBECK	VULB9168	583	22.04.23								
COAXIAL FIXED ATTENUATOR	Agilent	8491B-003	2708A18758	21.04.23								
AMPLIFIER	SONOMA	310N	284608	21.08.20								
Horn antenna	ETS.lindgren	3117	155787	21.10.28								
Horn antenna	ETS.lindgren	3116	86632	21.02.17								
Broadband PreAmplifier	SCHWARZBECK	BBV9718	216	21.07.28								
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800 -22-10P	2031196	21.02.12								
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33- 8P	2000996	22.01.21								
Attenuator	API Inmet	40AH2W-10	12	21.05.12								
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-								
Turn Table	Innco Systems	DT2000	79	-								
Antenna Mast	Innco Systems	MA4000-EP	303	-								
Highpass Filter	WT	WT-A1698-HS	WT160411001	21.05.11								
Cable Assembly	RadiAll	2301761768000PJ	1724.659	-								
Cable Assembly	gigalane	RG-400	-	-								
Cable Assembly	HUER+SUHNER	SUCOFLEX 104	MY4342/4	-								
Power Sensor	R&S	NRP-Z81	1137.9009.02- 106225-JM	21.05.25								

End of test report