

## **TEST REPORT**

Eurofins KCTL Co..Ltd.

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea 

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Report No.: KR24-SRF0072-A Page(1) of (43)



1. Client

Name

: Samsung Electronics Co., Ltd.

Address

: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677,

Rep. of Korea

Date of Receipt : 2024-04-12

2. Use of Report

: Certification

3. Name of Product / Model

: Smart Wearable / SM-R861

4. Manufacturer / Country of Origin : Samsung Electronics Co., Ltd. / Vietnam

5. FCC ID

: A3LSMR861

6. Date of Test

: 2024-04-14 to 2024-05-01

7. Location of Test : ■ Permanent Testing Lab ☐ On Site Testing

(Address:65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

8. Test method used: FCC Part 15 Subpart C, 15.247

9. Test Result

: Refer to the test result in the test report

Tested by Technical Manager Affirmation Name: Kwonse Kim Name: Seungyong Kim

2024-05-13

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As a test result of the sample which was submitted from the client, this report does not guara ntee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co., Ltd.

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#### **REPORT REVISION HISTORY**

Date	Revision	Page No
2024-05-03	Originally issued	-
2024-05-13	Changed the antenna gain	4

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Note. The report No. KR24-SRF0072 is superseded by the report No. KR24-SRF0072-A.

<b>General remarks for test reports</b>					
Statement concerning the uncertainty	of the meas	urem <mark>ent sys</mark>	t <mark>em</mark> s used for	the tests	
(may be required by the product standar	d or client)				
Internal procedure used for type to has been established:	esting throuເ	gh which trac	eab <mark>ility of the</mark>	measuring uncert	ainty
Procedure number, issue date and title Calculations leading to the reported values a		he testing labor	atory that conduc	cted the testing.	
Statement not required by the state	ndard or clie	nt used for ty	ne testina		

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### 1. General information

Client : Samsung Electronics Co., Ltd.

Address : 129, Samsung-ro, Yeongtong-qu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Manufacturer : Samsung Electronics Co., Ltd.

Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Factory 1 : AG TECH CO.,LTD

Address 1 : Lot G3, Que Vo Industrial Park(Expanded Area), Nam son Ward, Bac Ninh Province,

Vietnam

Factory 2 : ALMUS VINA

Address 2 : Lot CN07A, Phu Ha Industrial Park, Ha Thach Commune, Phu Tho Town, Phu Tho

Province, Vietnam

Laboratory : Eurofins KCTL Co.,Ltd.

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

CAB Identifier: KR0040 ISED Number: 8035A KOLAS No.: KT231

#### 2. Device information

Equipment under test : Smart Wearable

Model : SM-R861

Modulation technique : Bluetooth Low Energy : GFSK

Number of channels : 40 ch
Power source : DC 3.88 V
Antenna specification : LDS Antenna

Antenna gain : -8.9 dBi

Frequency range : 2 402 Mb ~ 2 480 Mb

Software version : R861.001 Hardware version : REV1.0

Test device serial No. : Conducted : R3AX400G5TV

Radiated: R3AX400G68K, R3AX400G6NM, R3AX400G6QP

R3AX400G6FL

Operation temperature : 0  $^{\circ}$  ~ 35  $^{\circ}$ 

## 2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source	FCC ID & IC
Wireless charger	SAMSUNG	EP-OR825	-	5.0 V, 1.0 A	FCC ID : A3LEPOR825 IC : 649E-EPOR825

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## 2.2. Frequency/channel operations

This device contains the following capabilities: Bluetooth Low Energy

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

Table 2.2-1. Bluetooth Low Energy

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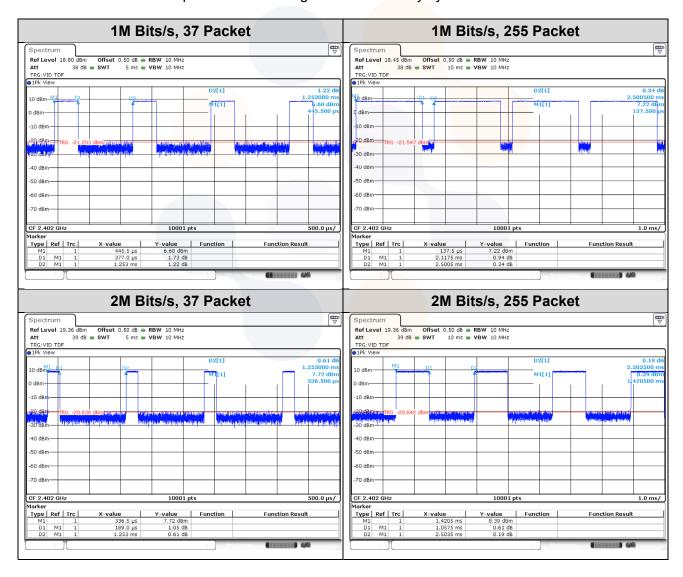


2.3. Duty Cycle Factor

Test mode	Period	On time	Duty cycle		<b>Duty Cycle Factor</b>
rest mode	(ms) (ms)		(Linear)	(%)	(dB)
1M Bits/s, 37 Packet	1.253	0.377	0.300 9	30.09	5.22
1M Bits/s, 255 Packet	2.501	2.118	0.846 9	84.69	0.72
2M Bits/s, 37 Packet	1.253	0.189	0.150 8	15.08	8.21
2M Bits/s, 255 Packet	2.504	1.058	0.422 5	42.25	3.74

#### Notes.

- 1. Duty cycle (Linear) = Ton time / Period
- 2. DCF(Duty cycle factor) = 10log(1/duty cycle)
- 3. DCF is not compensated to average result if the duty cycle is more than 98%



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## 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.

Report No.:

- The transmitter has permanently attached LDS 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		Pass
15.247(e)	Peak Power Spectral Density	Peak Power Spectral Density	
15.247(a)(2)	6 dB Channel Bandwidth	Conducted	Pass
15.207(a)	AC Conducted Emissions	AC Conducted Emissions	
15.247(d)	Conducted Spurious Emissions		Pass
15.205(a),	Spurious emission	Radiated	Pass
15.209(a)	Band-edge, restricted band	Radiated	Pass

#### Notes:

- 1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2. According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. 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.
- 3. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z and all of the radiated tests have been performed with the accessories as below. It was determined that below orientation was worst case orientation for each band.

4. All configurations have been performed (Stand-alone, Stand-alone with TA and Strap).

Dond	Ctron	With charger	Without charger		r
Band	Strap	X-axis	X-axis	Y-axis	Z-axis
Plustooth I C	With strap	-	-	-	0
Bluetooth LE	Without strap	-	-	-	-

- 5. The test procedure(s) in this report were performed in accordance as following.
  - ANSI C63.10-2013
  - KDB 558074 D01 v05r02
- 6. The worst-case data rates were:
  - 1M Bits/s: Packet length 37 Bytes, 2M Bits/s: Packet length 37 Bytes

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## 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	Expai	nded uncertainty (±)	
Conducted RF power	<b>0.9</b> dB		
Conducted spurious emissions	1.9 dB		
	9 kHz ~ 30 MHz:	<b>2.3</b> dB	
Radiated spurious emissions	30 Mb ~ 1 000 Mb	<b>2.5</b> dB	
Nadiated spurious emissions	1 000 MHz ~ 18 0 <mark>00 MHz</mark>	<b>4.7</b> dB	
	Above 18 000 Mb	<b>4.8</b> dB	
Conducted emissions	9 kHz ~ 150 kHz	2.8 dB	
Conducted emissions	150 kHz ~ 30 MHz	<b>2.8</b> dB	

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## 6. Measurement results explanation example

The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between EUT conducted output port and spectrum analyzer.

With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Frequency (酏)	Factor(dB)	Frequency (Mb)	Factor(dB)
30	9.74	9 000	12.81
50	10.14	10 000	12.69
100	10.19	11 000	13.21
200	10.23	12 000	12.34
300	10.40	13 000	13.31
400	10.41	14 000	13.71
500	10.47	15 000	12.91
600	10.43	16 000	14.63
700	10.50	17 000	12.93
800	10.49	18 000	13.78
900	10.65	19 000	14.55
1 000	10.68	20 000	14.46
2 000	11.12	21 000	14.59
3 000	11.44	22 000	14.57
4 000	11.69	23 000	15.06
5 000	12.03	24 000	14.77
6 000	12.31	25 000	14.68
7 000	12.11	26 000	15.25
8 000	12.36	26 500	15.09

#### Note:

Offset(dB) = RF cable loss(dB) + Attenuator(dB)

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7.						
7.1.	Maximur	n peak	output	power		
Test se	etu <u>p</u>	-				
	EUT			Attenuator		Power sensor

#### Limit

#### 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 ≤ 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 ≥ DTS bandwidth.
- b) Set VBW  $\geq$  [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 and 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:

- a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may 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 cycle.
  - 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.
- b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
- c) Measure the average power of the transmitter. This measurement is an average over both 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.

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#### **Test results**

Eroguepov/Mk)	Data rate	Packet length	Measured outp	out power (dBm)	Limit/dDm)
Frequency( <b>M</b> b)	(Bits/s)	(Bytes)	Peak	Average	Limit(dBm)
	1M	37	7.48	7.14	
2 402	I IVI	255	7.27	6.82	
2 402	2M	37	8.17	7.36	
	ZIVI	255	8.14	7.18	
	1M	37	7.58	7.29	
2 440		255	7.28	6.94	30.00
2 440	2M	37	8.30	7.53	30.00
		255	8.21	7.39	
	111	37	7.61	7.20	
2 480	1M	255	6.85	6.52	
	2M	37	8.41	7.51	
	ZIVI	255	7.78	6.97	

#### Note.

<sup>1.</sup> Average conducted output power (dBm) = Reading value of average power (dBm) + D.C.F (dB)

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## 7.2. Peak Power Spectral Density

Test setup	_		
EUT		Attenuator	Spectrum analyzer

#### **Limit**

#### According to §15.247(e),

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8  $\,\mathrm{dBm}$  in any 3  $\,\mathrm{klz}$  band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

#### Test procedure

ANSI C63.10 - Section 11.10.2

#### Test settings

#### Method PKPSD (peak PSD)

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- 1) Set analyzer center frequency to DTS channel center frequency.
- 2) Set the span to 1.5 times the DTS bandwidth.
- 3) Set the RBW to: 3 kHz  $\leq$  RBW  $\leq$  100 kHz.
- 4) Set the VBW  $\geq$  3 x RBW.
- 5) Detector = peak.
- 6) Sweep time = auto couple.
- 7) Trace mode = max hold.
- 8) Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10) If measured value exceeds limit, reduce RBW (no less than 3 klb) and repeat.

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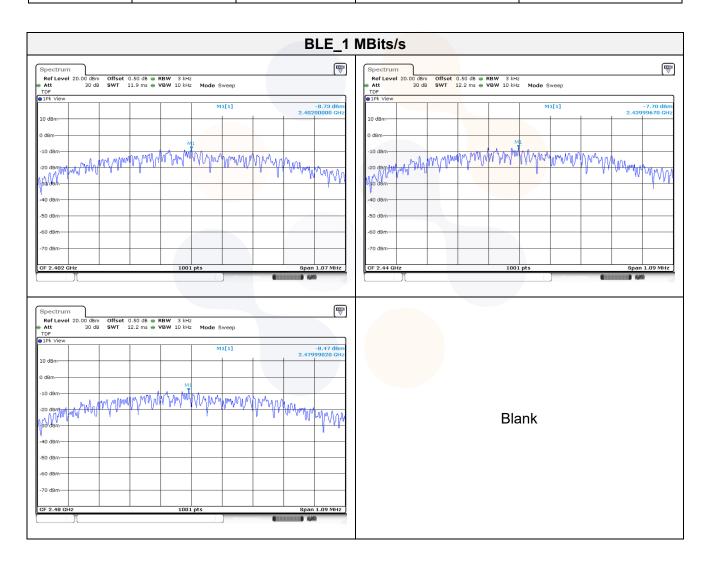
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#### **Test results**

	Data rate	Packet length	DCD(JD/2 JJL)	1 : :4/ JD /2 JJL-\
Frequency(Mb)	(Bits/s)	(Bytes)	PSD(dBm/3 k批)	Limit(dBm/3 址)
2 402			-8.73	
2 440	1M	37	-7.70	
2 480			-8.47	0
2 402			-10.33	8
2 440	2M	37	-9.73	
2 480			-10.54	

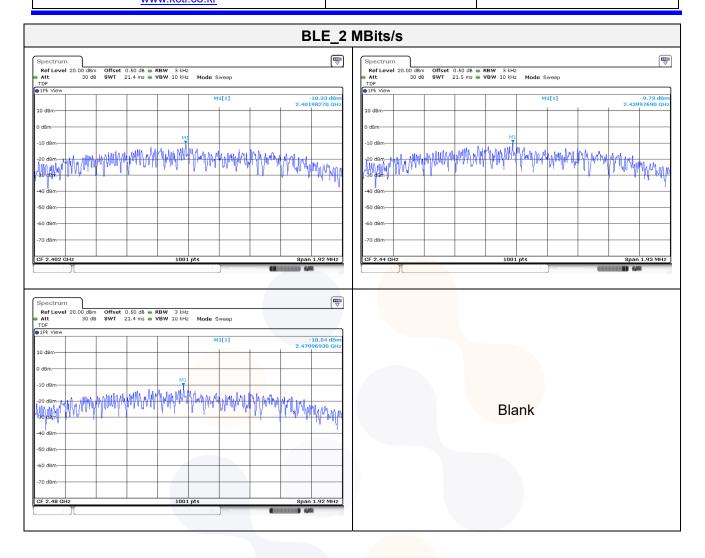


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## 7.3. 6 dB Bandwidth(DTS Channel Bandwidth)



#### Limit

#### According to §15.247(a)(2),

For Systems using digital modulation techniques may operate in the 902–928  $\,\text{Mz}$ , 2 400–2 483.5  $\,\text{Mz}$ , and 5 725–5 850  $\,\text{Mz}$  bands. The minimum 6  $\,\text{dB}$  bandwidth shall be at least 500  $\,\text{kHz}$ .

#### Test procedure

ANSI C63.10 - Section 11.8.2

#### **Test settings**

#### **DTS** bandwidth

One of the following procedures may be used to determine the modulated DTS bandwidth.

#### Option 1

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) ≥ 3 x RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X  $\,\mathrm{dB}$  bandwidth mode with X set to 6  $\,\mathrm{dB}$ , if the functionality described in 11.8.1 (i.e., RBW = 100  $\,\mathrm{kHz}$ , VBW  $\geq$  3  $\times$  RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq$ 6  $\,\mathrm{dB}$ .

**Notes:** it may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

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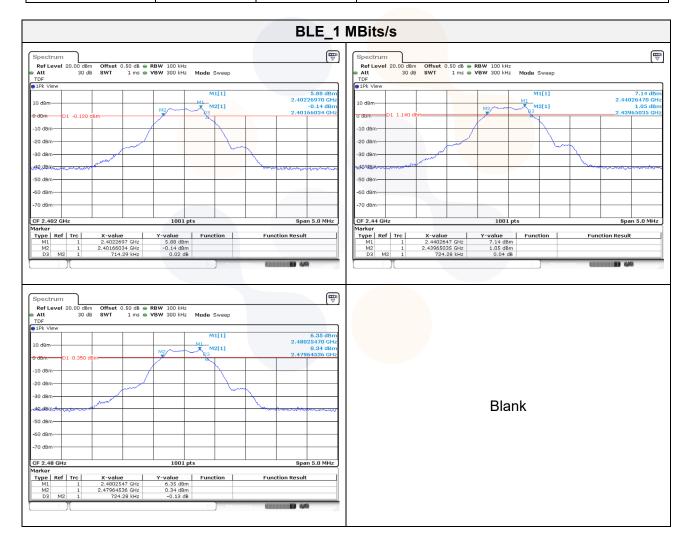
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#### Test results

Frequency(Mb)	Data rate (Bits/s)	Packet length (Bytes)	6 dB Bandwidth(M拉)
2 402			0.714
2 440	1M	37	0.724
2 480			0.724
2 402			1.279
2 440	2M	37	1.284
2 480			1.279

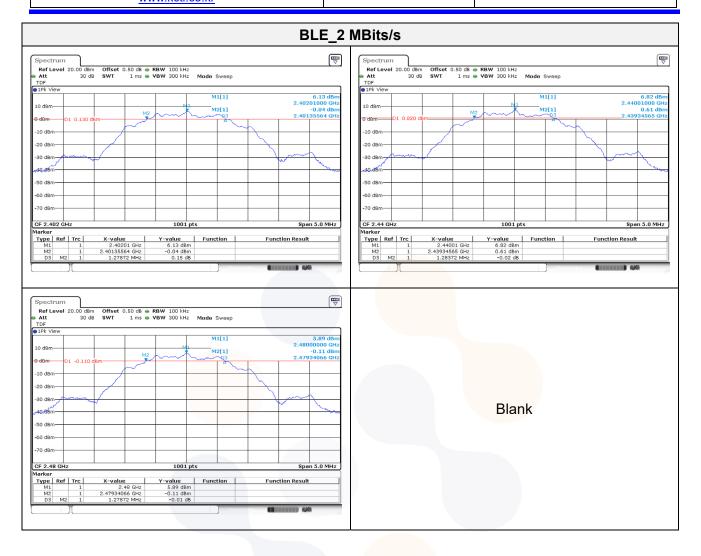


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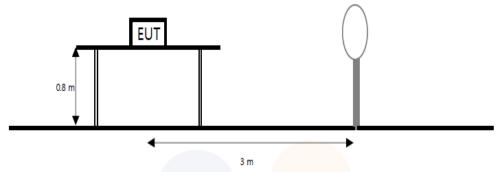
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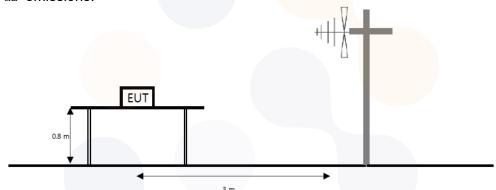


# 7.4. Spurious Emission, Band Edge and Restricted bands Test setup

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 Mb to 1 Gb emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 to the tenth harmonic of the highest fundamental frequency or to 40 to emissions, whichever is lower.

