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JQA File No. : KL80230904R Issue Date : April 15, 2024

TEST REPORT

Applicant: I&C Technology Co., Ltd.

Address : (Sampyeong-dong, I&C Building), 24, Pangyo-ro255beon-gil,

Bundang-gu, Seongnam-si, South Korea

Products : Dual Module

Model No. : WFM60-SFP2501

Serial No. : --

Test Standard : CFR 47 FCC Rules and Regulations Part 15 Subpart C

FCC ID : 2ADXS-WFM60-SFP2501

Test Results : Passed (in partial testing, see test results)

Date of Receipt : December 22, 2023

Date of Test : December 28, 2023 ~ January 10, 2024



dusty.

Kosei Shibata
Deputy Director
Japan Quality Assurance Organization
Kitakansai Testing Center
Saito EMC Branch

7-3-10, Saito-asagi, Ibaraki-shi, Osaka 567-0085, Japan

- The test results in this test report was made by using the measuring instruments which are traceable to national standards of measurement in accordance with ISO/IEC 17025.
- The applicable standard, testing condition and testing method which were used for the tests are based on the request of the applicant.
- The test results presented in this report relate only to the offered test sample.
- The contents for the equipment under test (EUT) such as identification information in clause 2 and 6 of this report were provided by the applicant. JQA is not responsible for the test results affected by the incorrect information.
- The contents of this test report cannot be used for the purposes, such as advertisement for consumers.
- This test report shall not be reproduced except in full without the written approval of JQA.
- VLAC does not approve, certify or warrant the product by this test report.



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REVISION HISTORY

File No.	Contents	Issue Date
KL80230904	Initial Issue	March 14, 2024
KL80230904R	Added orientation of the EUT below 1 GHz.	April 15, 2024



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Summary of Test Results

Applied Standard : CFR 47 FCC Rules and Regulations Part 15 - Radio Frequency Devices

Subpart C - Intentional Radiators

Item	FCC rules	Result	Note
Antenna Requirement	§15.203	Passed	1
99% Occupied Bandwidth		Not Tested	
6 dB Emission Bandwidth	§15.247(a)(2)	Not Tested	
Power Spectral Density	§15.247(e)	Not Tested	
Maximum Conducted Output Power	§15.247(b)(3)	Passed	
Conducted Spurious Emission	§15.247(d)	Not Tested	
Radiated Spurious Emission	§15.205, §15.209 and §15.247(d)	Passed	2
AC Powerline Conducted Emission	§15.207	Not Tested	
RF Exposure	§1.1310, §2.1093 and §15.247(i)	Passed	3

¹⁾ The EUT is designed to ensure that no antenna other than that furnished by the manufacturer shall be used. Information for antenna type is described in clause 2.

y. Sakai y. Shintaku

- 2) The spot check tests were required according to KDB 996369 D04.
- 3) Refer to test report KL80230893.

In the approval of test results,

- No deviations were employed from the applied standard.
- No modifications were conducted by JQA to achieve compliance to the limitations.

Reviewed by

Yasuhisa Sakai / Project Manager

Tested by

Yuji Shintaku / Assistant Manager

JAPAN QUALITY ASSURANCE ORGANIZATION



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Description of Equipment Under Test (EUT)

General Information 2.1

	I&C Technology Co., Ltd.
Manufacturer	(Sampyeong-dong, I&C Building), 24, Pangyo-ro255beon-gil,
	Bundang-gu, Seongnam-si, South Korea
Products	Dual Module
Model No.	WFM60-SFP2501
Serial No.	
Power Rating	3.3VDC
Modulation Technology	Digital transmission system (DTS)
Modulation Type	DSSS/CCK (802.11b), OFDM (802.11g/n)
Operating Frequency	2412 MHz (01CH) – 2462 MHz (11CH)
Antenna Type	WIFI Dual Band PCB Antenna
Antenna Gain	1.98 dBi

2.2 **Host Device Information**

Manufacturer	Seiko Instruments Inc. 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba 261-8507, Japan
Products	Thermal Printer
Model No.	MP-B21L-W46JK1U
Serial No.	LB000009A0
Product Type	Pre-production
Date of Manufacture	November, 2023
Power Pating	12VDC (AC Adapter WB-18D12R)
Power Rating	7.4VDC (Lithium-ion Battery BP-A0720-B1)
Grounding	None

2.3 **Channel List**

11 channels are provided for 802.11b, 802.11g, 802.11n (HT20).

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	-	-



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3 Test Location

Japan Quality Assurance Organization (JQA) Kitakansai Testing Center Saito EMC Branch 7-3-10, Saito-asagi, Ibaraki-shi, Osaka 567-0085, Japan

4 Accreditation of Test Laboratory

JQA Kitakansai Testing Center Saito EMC Branch is accredited under ISO/IEC 17025 by the following accreditation bodies and the test facility is registered by the following bodies. If the accreditation logo does not appear on this cover, it is outside the scope of ISO/IEC 17025.

VLAC Accreditation No. : VLAC-001-2 (Expiry date : April 30, 2024)
A2LA Accreditation No. : 5498.01 (Expiry date : November 30, 2025)

VCCI Registration No.
FCC Registration No.
JP5008 (Expiry date : April 30, 2024)
ISED Registration No.
JP0014 (Expiry date : November 30, 2025)

BSMI Registration No. : SL2-IS-E-6006, SL2-IN-E-6006, SL2-R1/R2-E-6006, SL2-A1-E-6006

(Expiry date: September 14, 2025)

Accredited as conformity assessment body for Japan electrical appliances and material law by METI.

(Expiry date: February 22, 2025)

5 Measurement Uncertainty

Item	Frequency	Uncertainty (<i>U</i>)
Emission Bandwidth		± 0.9 %
Peak Output Power		± 0.9 dB
	9 kHz – 1 GHz	± 1.4 dB
Conducted Emission (Antenna Port)	1 GHz – 18 GHz	± 1.7 dB
	18 GHz – 40 GHz	± 2.3 dB
	9 kHz – 30 MHz	± 3.0 dB
	30 MHz – 200 MHz	± 3.6 dB
Radiated Emission	200 MHz – 1000 MHz	± 4.8 dB
Radiated Emission	1 GHz – 6 GHz	± 4.7 dB
	6 GHz – 18 GHz	± 4.6 dB
	18 GHz – 40 GHz	± 5.1 dB
AC Powerline Conducted Emission	150 kHz – 30 MHz	± 2.6 dB

Determining compliance with the limits in this test report was based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty (MIU).

The reported expanded uncertainty of measurement, U is described with using the coverage factor k = 2, to give a level of confidence of approximately 95 %.

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6 Setup of EUT

6.1 Test Configuration

The equipment under test (EUT) consists of :

_	1110 00	equipment under test (EOT) sensists of :				
	Item		Manufacturer	Model No.	Serial No.	
	Α	Thermal Printer	Seiko Instruments Inc.	MP-B21L-W46JK1U	LB000009A0	
Ī	В	Li-ion Battery	Seiko Instruments Inc.	BP-A0720-B1		

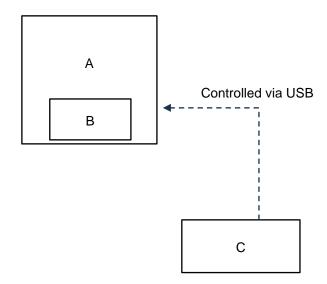
The auxiliary equipment (AE) used for testing :

	Item	Manufacturer	Model No.	Serial No.
С	Controller PC	lenovo	IdeaPad Y580 (2099)	CB19850852

Type of Cable:

None

6.2 Test Arrangement (Drawings)





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6.3 Operating Condition

Test Mode

The EUT is set with the test mode, the specification of the test mode is as followings.

Transmitting frequency : 2412 MHz (01CH) – 2462 MHz (11CH)

Modulation Type

1. 802.11b : DSSS 2. 802.11g : OFDM 3. 802.11n : OFDM

The spot check tests were performed in the following worst condition.

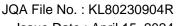
Test Item	Mode	Data Rate	Channel
Band Edge Emission	802.11n (HT20)	MCS 0	1, 2, 10, 11
Other Spurious Emission	802.11b	1 Mbps	6

Note: This is C2PC report to add the host and therefore, the output power was confirmed to be within the tune up level and radiated test was done against the worst condition determined based on the module test report HCT-RF-1808-FC006.

The tests were performed using the following test program supplied by applicant;

- Software Name : I&C Technology AlphaDM

Software Version : Rev. 13.27Storage Location : Controller PC

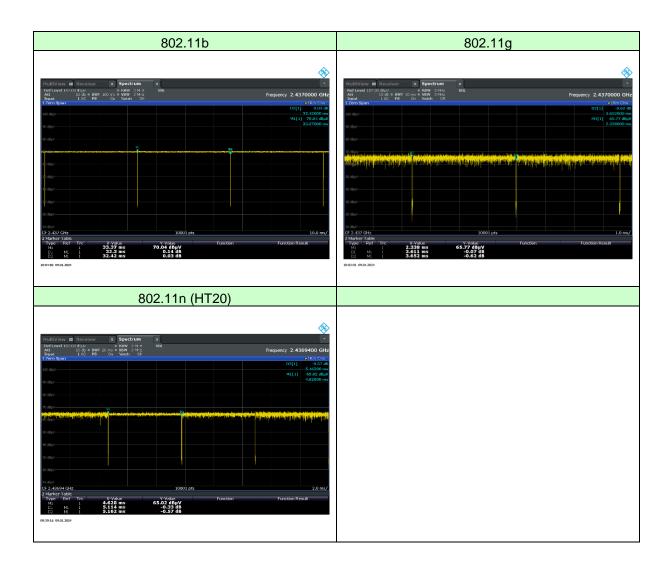




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6.4 Duty Cycle

Mode	On Time (msec.)	On+Off Time (msec.)	Duty Cycle (%)	Duty Factor (dB)	VBW [>1/T] (kHz)
802.11b	32.300	32.420	99.6	0.02	> 0.01
802.11g	3.611	3.652	98.9	0.05	> 0.01
802.11n (HT20)	5.114	5.162	99.1	0.04	> 0.01





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7 Test Item

7.1 Maximum Conducted Output Power

7.1.1 Test Site and Instruments

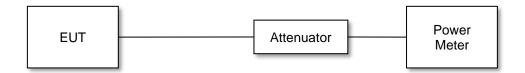
Test Site : Shielded Room S3						
Туре	Model	Serial No. (ID)	Manufacturer	Last Cal.	Cal. Due	
Power Sensor	MA2491A	1409075 (B-17)	Anritsu	2023/08/14	2024/08/13	
Power Sensor	MA2411B	1339136 (B-18)	Anritsu	2023/08/14	2024/08/13	
Attenuator	54A-10	W5732 (D-30)	Weinschel	2023/05/26	2024/05/25	
Thermo-Hygrometer	testo 608-H2	30050650 (F-71)	testo	2023/04/24	2024/04/23	
Barometer	BAROMEX	02952 (F-48)	SATO	2023/08/16	2024/08/15	

7.1.2 Test Method and Test Setup (Diagrammatic illustration)

The EUT is connected to the measuring equipment via a suitable attenuator.

The test conditions and methods comply with the following test standards.

- KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2020 +Cor.1-2023 clause 11.9.1.2 (PKPM1) and 11.9.2.3.2 (AVGPM-G)





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7.1.3 Test Data

<u>Test Date: December 28, 2023</u> <u>Temp.: 22 °C, RH: 39 %, Atm.: 1002 hPa</u>

Mode	Channel	Frequency (MHz)	Peak Output Power (dBm)	Limits (dBm)
	1	2412	18.251	≤ 30.0
	2	2417	18.227	≤ 30.0
802.11b	6	2437	20.894	≤ 30.0
	10	2457	21.103	≤ 30.0
	11	2462	21.066	≤ 30.0
802.11g	1	2412	21.808	≤ 30.0
	2	2417	21.361	≤ 30.0
	6	2437	20.732	≤ 30.0
	10	2457	22.223	≤ 30.0
	11	2462	22.143	≤ 30.0
	1	2412	21.457	≤ 30.0
	2	2417	21.888	≤ 30.0
802.11n (HT20)	6	2437	21.730	≤ 30.0
	10	2457	22.076	≤ 30.0
	11	2462	21.867	≤ 30.0

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Limits (dBm)
	1	2412	14.495	
	2	2417	14.499	
802.11b	6	2437	17.968	
	10	2457	18.494	
	11	2462	18.477	
	1	2412	15.922	
802.11g	2	2417	15.953	
	6	2437	16.432	
	10	2457	16.951	
	11	2462	16.929	
	1	2412	15.461	
	2	2417	15.918	
802.11n (HT20)	6	2437	15.899	
	10	2457	16.402	
	11	2462	15.997	



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7.2 Radiated Spurious Emission

7.2.1 Test Site and Instruments

Test Site : Anechoic Chamber A4									
Туре	Model	Serial No. (ID)	Manufacturer	Last Cal.	Cal. Due				
Test Receiver	ESR 26	101690 (A-7)	Rohde & Schwarz	2023/10/11	2024/10/10				
Pre-Amplifier	APT4-00100600- 1310-D6	118243 (A-61)	AmpliTech	2023/10/25	2024/10/24				
Loop Antenna	HFH2-Z2	872096/25 (C-2)	Rohde & Schwarz	2023/05/25	2024/05/24				
Log-periodic Antenna	VULP9118B	903 (C-84)	Schwarzbeck	2023/11/01	2024/10/31				
Biconical Antenna	VHBB9124/BBA9106	01316 (C-87)	Schwarzbeck	2023/11/01	2024/10/31				
Band Pass Filter	MBP301	203753 (D-127)	Microwave Factory	2023/12/11	2024/12/10				
EMC Software	EP5/RE	Ver.6.00.120	TOYO						
RF Cable	S 10162 B-11 etc.	(H-1)	HUBER+SUHNER	2023/10/25	2024/10/24				
RF Cable	RG213/U	(H-28)	HUBER+SUHNER	2023/05/25	2024/05/24				
Thermo- Hygrometer	testo 608-H2	41488568 (F-78)	testo	2023/10/31	2024/10/30				
Barometer	BAROMEX	02952 (F-48)	SATO	2023/08/16	2024/08/15				

Test Site : Anechoic Chamber A2									
Туре	Model	Serial No. (ID)	Serial No. (ID) Manufacturer						
Test Receiver	ESW 44	101618 (A-3)	Rohde & Schwarz	2023/02/08	2024/02/07				
Pre-Amplifier	BZR-01001800- 201040-182323- HS	23804 (A-65)	B&Z	2023/02/03	2024/02/02				
Double-Ridge Guide Horn Antenna	Guide TR17206 73370006 (C-29		ADVANTEST	2023/05/22	2024/05/21				
Horn Antenna	91889-2	568 (C-41-2)	EATON	2023/05/23	2024/05/22				
Horn Antenna	3160-09	9808-1117 (C-48)	EMCO	2023/07/17	2024/07/16				
RF Cable	SF102E	6683/2E (C-70)	HUBER+SUHNER	2023/04/03	2024/04/02				
RF Cable	SF102E	10055/2E (C-75)	HUBER+SUHNER	2023/04/03	2024/04/02				
Band Rejection Filter	BRM50702	371 (D-121)	MICRO-TRONICS	2023/10/05	2024/10/04				
Thermo-Hygrometer	testo 608-H2	30050646 (F-68)	testo	2023/06/09	2024/06/08				
Barometer	BAROMEX	02952 (F-48)	SATO	2023/08/16	2024/08/15				

7.2.2 Test Method and Test Setup (Diagrammatic illustration)

The test conditions and methods comply with the following test standards.

- KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2020 +Cor.1-2023 clause 11.12



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7.2.2.1 Radiated Spurious Emission 9 kHz - 30 MHz

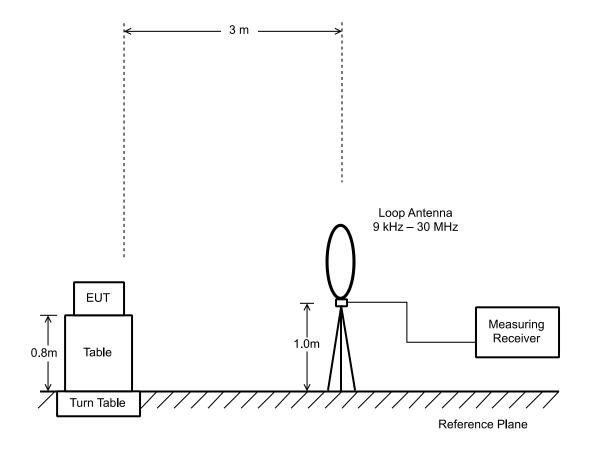
The pre-scan measurements were performed using the scan mode of test receiver or spectrum analyzer to observe the emissions characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

The measurement were performed about three antenna orientations (parallel, perpendicular, and groundparallel).

According to KDB 414788, a used anechoic chamber were equivalent to those on an open fields site based on comparison measurements.

This configurations was used for formal measurements.

(Reference divisional instruction No. G703649)





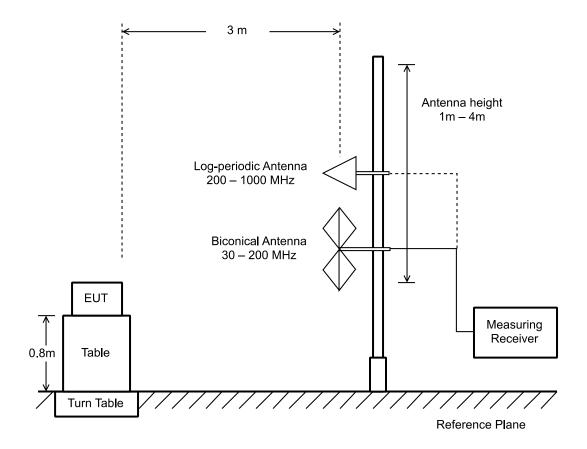
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Radiated Spurious Emission 30 MHz - 1000 MHz

The pre-scan measurements were performed using the scan mode of test receiver or spectrum analyzer to observe the emissions characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configurations was used for formal measurements.

(Reference divisional instruction No. G703649)





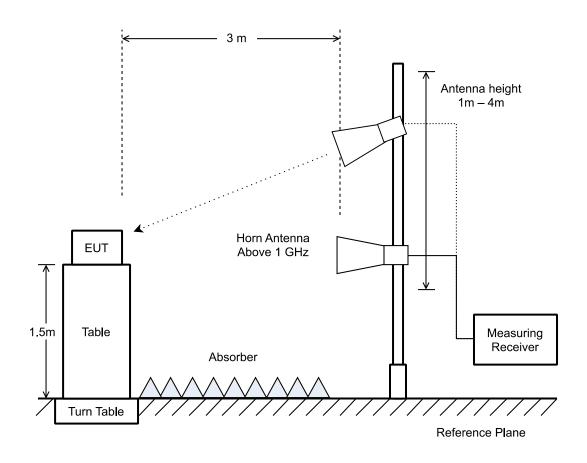
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7.2.2.3 Radiated Spurious Emission above 1 GHz

The pre-scan measurements were performed using the scan mode of test receiver or spectrum analyzer to observe the emissions characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configurations was used for formal measurements.

(Reference divisional instruction No. G703649)



NOTE

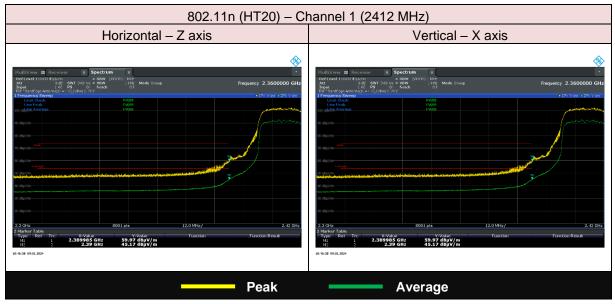
When the EUT is manipulated through three different orientations (for example, X, Y and Z axis), the scan height upper range for the measurement antenna is limited to 2.5 m or 0.5 m above the top of the EUT.



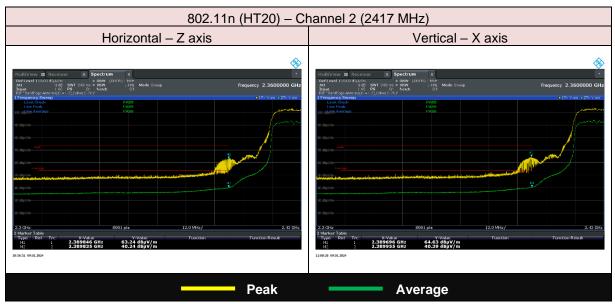
7.2.3 Test Data

7.2.3.1 Band-edge Emission

Test Date: January 9, 2024 Temp.: 21 °C, RH: 41 %, Atm.: 1003 hPa

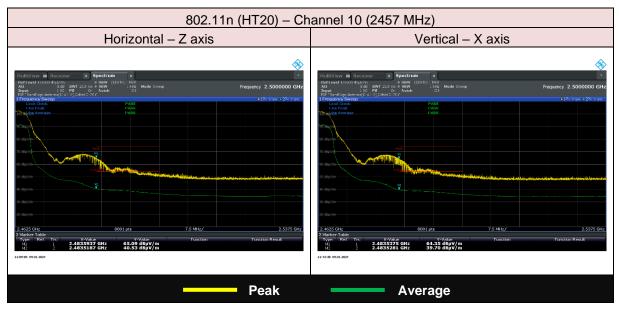


Peak detector is set to RBW 1 MHz and VBW 3 MHz.

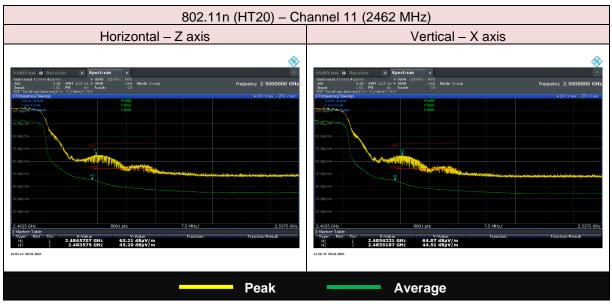


Peak detector is set to RBW 1 MHz and VBW 3 MHz.





Peak detector is set to RBW 1 MHz and VBW 3 MHz.



Peak detector is set to RBW 1 MHz and VBW 3 MHz.



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7.2.3.2 Radiated Spurious Emission 9 kHz - 30 MHz

All modes have been investigated and the worst case mode has been listed.

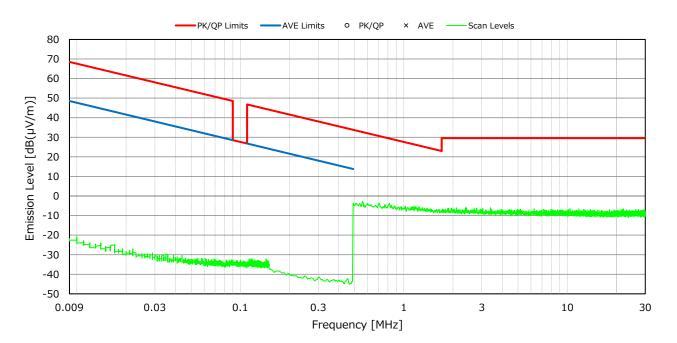
The orientation of the EUT have been fixed to X axis.

<u>Test voltage : 7.4VDC</u>

<u>Test Date: December 28, 2023</u>

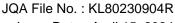
<u>Temp.: 23 °C, RH: 39 %, Atm.: 1002 hPa</u>

Antenna polarization: perpendicular to measurement axis



NOTES

- 1) Measurement Distance: 3 m (Specified Distance: 30 m)
- 2) The spectrum was checked from 9 kHz to 30 MHz.
- 3) PK/QP: Quasi-Peak detector, AVE: Average detector
- 4) Bandwidth : 200 Hz (9 kHz 150 kHz), 9 kHz (150 kHz 30 MHz)
- 5) All emission levels were below the noise floor, or more than 15 dB below the applied limits.







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7.2.3.3 Radiated Spurious Emission 30 MHz – 1000 MHz

All modes have been investigated and the worst case mode has been listed.

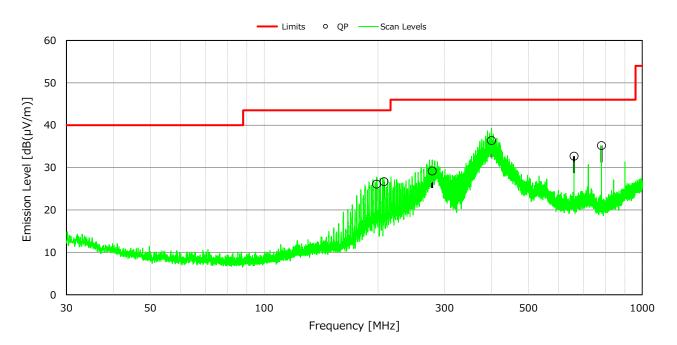
The orientation of the EUT have been fixed to X axis.

Test voltage: 7.4VDC

<u>Test Date: December 28, 2023</u> <u>Temp.: 23 °C, RH: 39 %, Atm.: 1002 hPa</u>

Antenna polarization: Horizontal

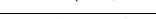
Frequency	Factor	Readings	Limits	Results	Margin	Remarks
[MHz]	[dB]	[dB(μV)]	[dB(µV/m)]	[dB(µV/m)]	[dB]	
198.378	-20.9	47.0	43.5	26.1	+ 17.4	-
207.429	-29.9	56.6	43.5	26.7	+ 16.8	-
278.201	-26.9	56.1	46.0	29.2	+ 16.8	-
399.315	-23.1	59.5	46.0	36.4	+ 9.6	-
659.994	-17.5	50.2	46.0	32.7	+ 13.3	=
779.990	-15.6	50.8	46.0	35.2	+ 10.8	-



NOTES

- 1) Measurement Distance: 3 m
- 2) The spectrum was checked from 30 MHz to 1000 MHz.
- 3) The factor includes the antenna factor and the cable loss.
- 4) Calculated result as the worst point shown on underline : Factor + Reading (QP) = -23.1 + 59.5 = 36.4 dB(μ V) at 399.315 MHz Antenna Height : 100 cm, Turntable Rotation Position : 130 °
- 5) QP: Quasi-Peak detector
- 6) Bandwidth: 120 kHz (30 MHz 1000 MHz)







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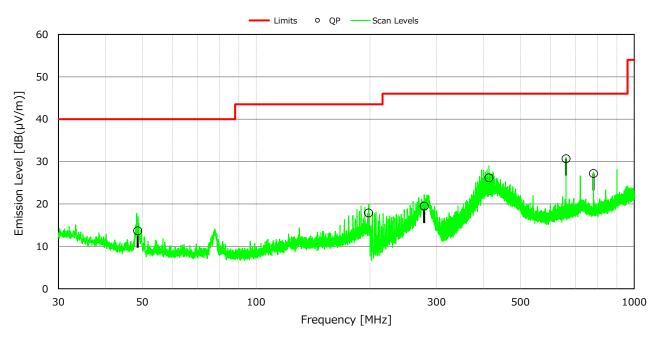
<u>Test voltage : 7.4VDC</u>

<u>Test Date: December 28, 2023</u>

<u>Temp.: 23 °C, RH: 39 %, Atm.: 1002 hPa</u>

Antenna polarization: Vertical

Frequency	Factor	Readings	Limits	Results	Margin	Remarks
[MHz]	[dB]	[dB(µV)]	[dB(µV/m)]	[dB(µV/m)]	[dB]	
48.597	-25.6	39.3	40.0	13.7	+ 26.3	-
198.378	-20.9	38.8	43.5	17.9	+ 25.6	-
278.201	-26.9	46.4	46.0	19.5	+ 26.5	-
412.793	-22.7	48.9	46.0	26.2	+ 19.8	-
659.994	-17.5	48.2	46.0	30.7	+ 15.3	-
779.990	-15.6	42.8	46.0	27.2	+ 18.8	-



NOTES

- 1) Measurement Distance: 3 m
- 2) The spectrum was checked from 30 MHz to 1000 MHz.
- 3) The factor includes the antenna factor and the cable loss.
- 4) Calculated result as the worst point shown on underline : Factor + Reading (QP) = -17.5 + 48.2 = 30.7 dB(μ V) at 659.994 MHz Antenna Height : 100 cm, Turntable Rotation Position : 277 °
- 5) QP: Quasi-Peak detector
- 6) Bandwidth: 120 kHz (30 MHz 1000 MHz)



Issue Date: April 15, 2024

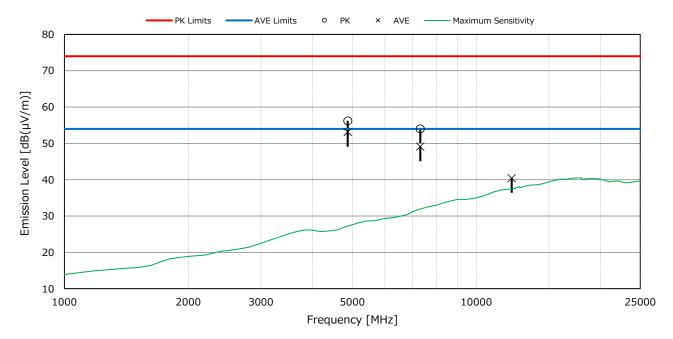
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7.2.3.4 Radiated Spurious Emission above 1 GHz

<u>Test voltage : 7.4VDC</u> <u>Test Date: January 10, 2024</u> <u>Test condition : 802.11b 6ch (2437MHz)</u> <u>Temp.: 20 °C, RH: 36 %, Atm.: 998 hPa</u>

Antenna polarization: Horizontal

Frequency	Factor	Read [dB(¡	_	Limits [dB(µV/m)]		Results n)] [dB(µV/m)]		Margin [dB]		Remarks
[MHz]	[dB]	PK	AVE	PK	AVE	PK	AVE	PK	AVE	
4874.00	- 5.6	61.8	58.7	74.0	54.0	56.2	53.1	+ 17.8	+ 0.9	Z
7311.00	- 0.7	54.7	49.8	74.0	54.0	54.0	49.1	+ 20.0	+ 4.9	X
12185.00	5.0	< 48.0	35.4	74.0	54.0	< 53.0	40.4	> + 21.0	+ 13.6	Z

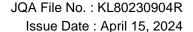


NOTES

- 1) Measurement Distance: 3 m
- 2) The spectrum was checked from 1 GHz to 25 GHz.
- 3) The factor includes the antenna factor, the pre-amplifier gain and the cable loss.
- 4) The symbol of "<" means "or less".
- 5) The symbol of ">" means "more than".
- 6) Calculated result as the worst point shown on underline : Factor + Reading (AVE) = $-5.6 + 58.7 = 53.1 \text{ dB}(\mu\text{V})$ at 4874.00 MHz
- 7) PK: Peak detector, AVE: Average detector
- 8) Bandwidth: 1 MHz (1 GHz 25 GHz)
- 9) The measurement result (worst point) is within the range of measurement uncertainty.

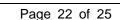
Spectrum Analyzer Setting(s):

Peak: RBW 1 MHz, VBW 3 MHz / Average: RBW 1 MHz, VBW 1 kHz



Test Date: January 10, 2024

Temp.: 20 °C, RH: 36 %, Atm.: 998 hPa

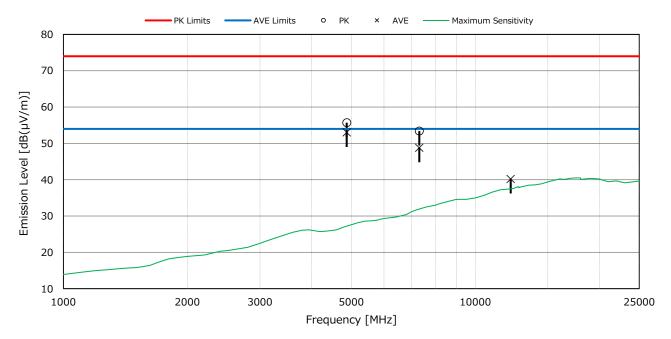




<u>Test voltage : 7.4VDC</u> <u>Test condition : 802.11b 6ch (2437MHz)</u>

Antenna polarization: Vertical

Frequency	Factor	ctor Readings [dB(µV)]			nits V/m)]	Resι [dB(μ\		Mar [d	_	Remarks
[MHz]	[dB]	PK	AVE	PK	AVE	PK	AVE	PK	AVE	
4874.00	- 5.6	61.3	58.6	74.0	54.0	55.7	53.0	+ 18.3	+ 1.0	Х
7311.00	- 0.7	54.1	49.5	74.0	54.0	53.4	48.8	+ 20.6	+ 5.2	Υ
12185.00	5.0	< 48.0	35.2	74.0	54.0	< 53.0	40.2	> + 21.0	+ 13.8	Υ



NOTES

- 1) Measurement Distance: 3 m
- 2) The spectrum was checked from 1 GHz to 25 GHz.
- 3) The factor includes the antenna factor, the pre-amplifier gain and the cable loss.
- 4) The symbol of "<" means "or less".
- 5) The symbol of ">" means "more than".
- 6) Calculated result as the worst point shown on underline :

Factor + Reading (AVE) = -5.6 + 58.6 = 53.0 dB(μ V) at 4874.00 MHz

- 7) PK: Peak detector, AVE: Average detector
- 8) Bandwidth: 1 MHz (1 GHz 25 GHz)
- 9) The measurement result (worst point) is within the range of measurement uncertainty.

Spectrum Analyzer Setting(s):

Peak: RBW 1 MHz, VBW 3 MHz / Average: RBW 1 MHz, VBW 1 kHz