

Dates of Tests: Sep 03, 2025 ~ Nov 13, 2025
Test Site : LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID.

PVRFE-700VE

APPLICANT

KJ TECH

Equipment Class	:	Part 15 Low Power Communication Device Transmitter(DXX)
Manufacturing Description	:	Facial and iliac vein access control devices
Manufacturer	:	KJ TECH
Model name	:	FE-700VE
Additional Model name	:	-
Test Device Serial No.:	:	Identical prototype
Rule Part(s)	:	FCC Part 15 Subpart C ; ANSI C63.10 - 2013
Frequency Range	:	13.56 MHz
Data of issue	:	November 20, 2025

This test report is issued under the authority of:

The test was supervised by:



Eun-Hwan Jung, Manager



Jae-Humm Yeon, Test Engineer

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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. 17159
 Web site : <http://www.ltalab.com>
 E-mail : chahn@ltalab.com
 Telephone : +82-31-323-6008
 Facsimile : +82-31-323-6010

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

1-2 Accredited agencies

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

Agency	Country	Accreditation No.	Validity	Reference
RRA	KOREA	KR0049	-	EMC accredited Lab.
FCC	U.S.A	649054	2027-03-29	FCC CAB
VCCI	JAPAN	C-4948,	2026-09-10	VCCI registration
VCCI	JAPAN	T-2416,	2026-09-10	VCCI registration
VCCI	JAPAN	R-4483(10 m),	2026-10-15	VCCI registration
VCCI	JAPAN	G-847	2025-12-13	VCCI registration
IC	CANADA	5799A-1	2025-08-15	IC filing

2. Information about test item

2-1 Client & Manufacturer

Client Company name : KJ TECH
 Address : 703ho, 3rd Dongyung Venturestel, 45 Deokchon-ro Manangu Anyang-si
 Gyeonggi-do South Korea
 Tel / Fax : TEL No : +82- 031-446-5388 / FAX No : +82- 031-446-5388

2-2 Equipment Under Test (EUT)

Model name : FE-700VE
 Serial number : Identical prototype
 Date of receipt : September 03, 2025
 EUT condition : Pre-production, not damaged
 Antenna type : Pattern Antenna
 Frequency Range : 13.56 MHz
 Type of Modulation : FSK
 Power Source : AC 120 V

2-3 Tested frequency

	LOW	MID	HIGH
Frequency (MHz) BLE		13.56	

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
-	-	-	-

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Test Condition	Status (note 1)
15.209 15.225(a)(b)(c)(d)	Radiated Emission	Radiated	C
15.225(e)	Frequency Tolerance		C
15.215(c)	20dB Bandwidth		C
15.207	AC Conducted Emissions	Conducted	N/A
15.203	Antenna requirement	-	C

N/A : This product is battery-enabled and excludes the test.

The above equipment was tested by LTA Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247 The test results of this report relate only to the tested sample identified in this report.

The tests were performed according to the method of measurements prescribed in KDB No.558074.

→ Antenna Requirement

KJ TECH. FCC ID: PVRFE-700VE unit complies with the requirement of §15.203.

The antenna type is Pattern Antenna

3.2 Technical Characteristics Test

3.2.1 Radiated Spurious Emissions

Procedure:

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013.

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

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 kHz ~ 10th harmonic.

RBW = 120 kHz (30 MHz ~ 1 GHz)

VBW $\geq$ RBW

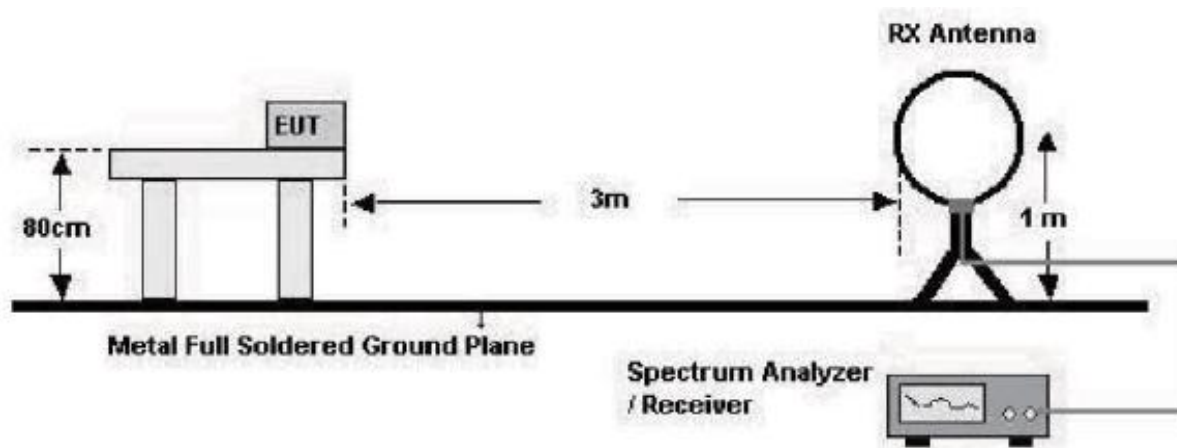
= 1 MHz (1 GHz ~ 10th harmonic)

Trace = max hold

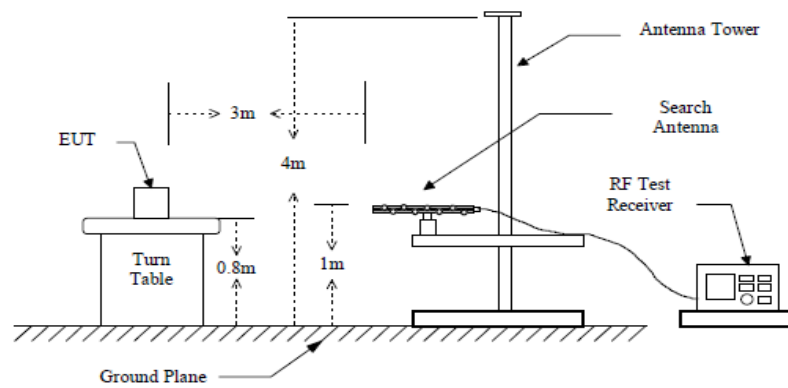
Detector function = peak

Sweep = auto

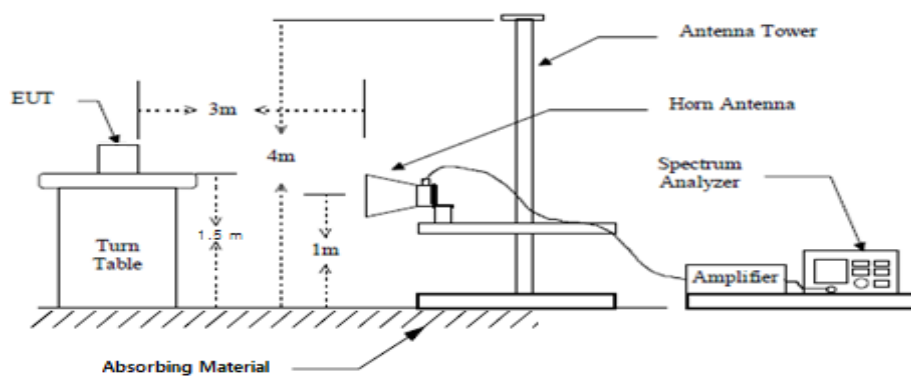
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



Measurement Data: **Complies**

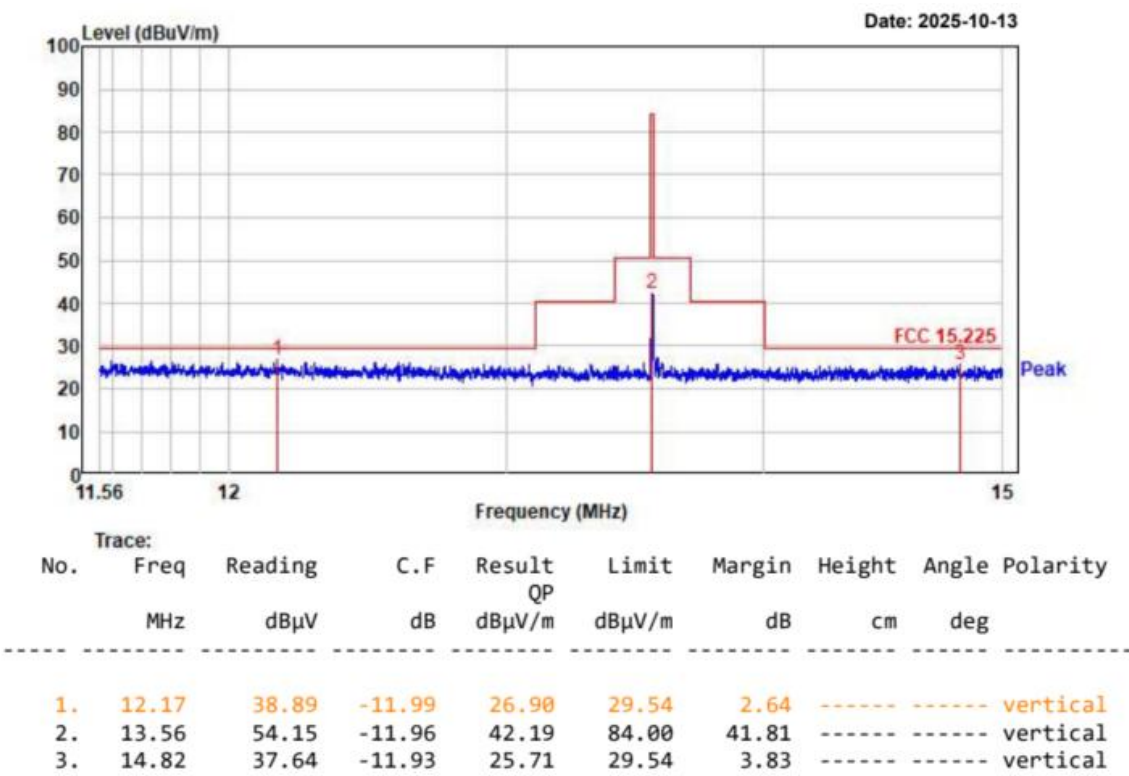
- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20 dB below limit include from 9 kHz to 30MHz.
- The test results for the worst of the various operating modes are presented in accordance with 6.3.4 of ANSI C 63.10.
- Checked with a red circle is the fundamental frequency.

Minimum Standard: FCC Part 15.209(a)

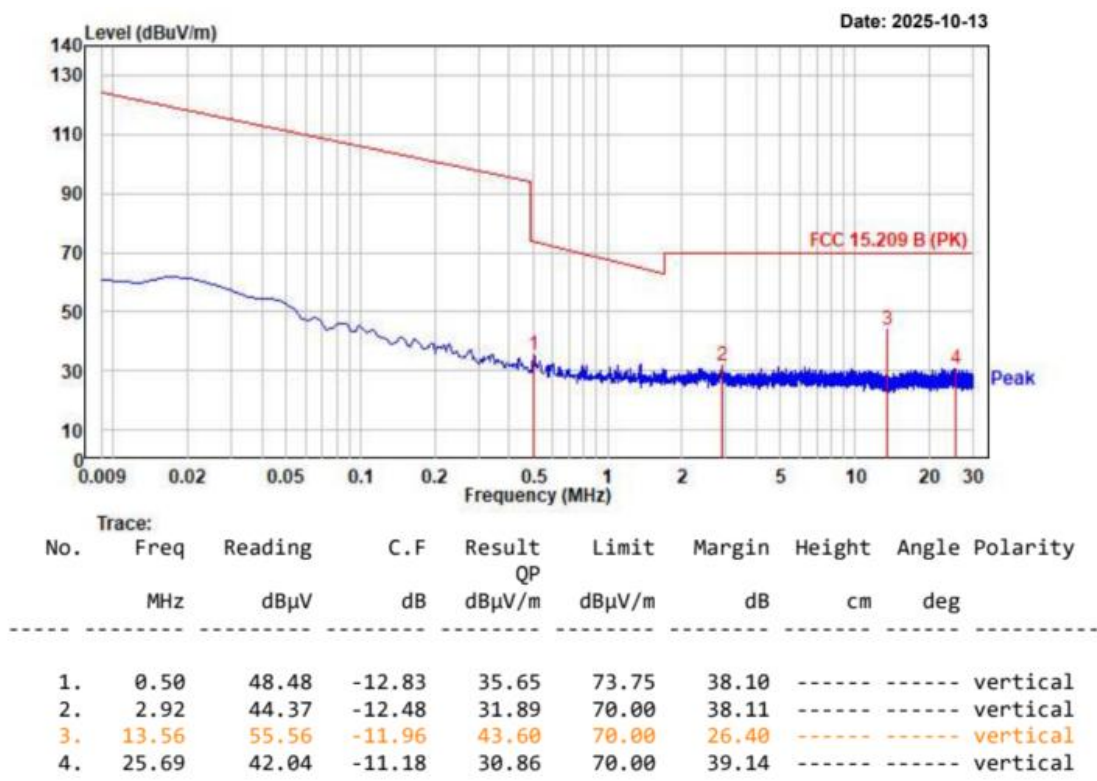
Frequency (MHz)	Limit (uV/m) @ 3 m
0.009 ~ 0.490	2400/F(kHz) (@ 300 m)
0.490 ~ 1.705	24000/F(kHz) (@ 30 m)
1.705 ~ 30	30(@ 30 m)
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

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

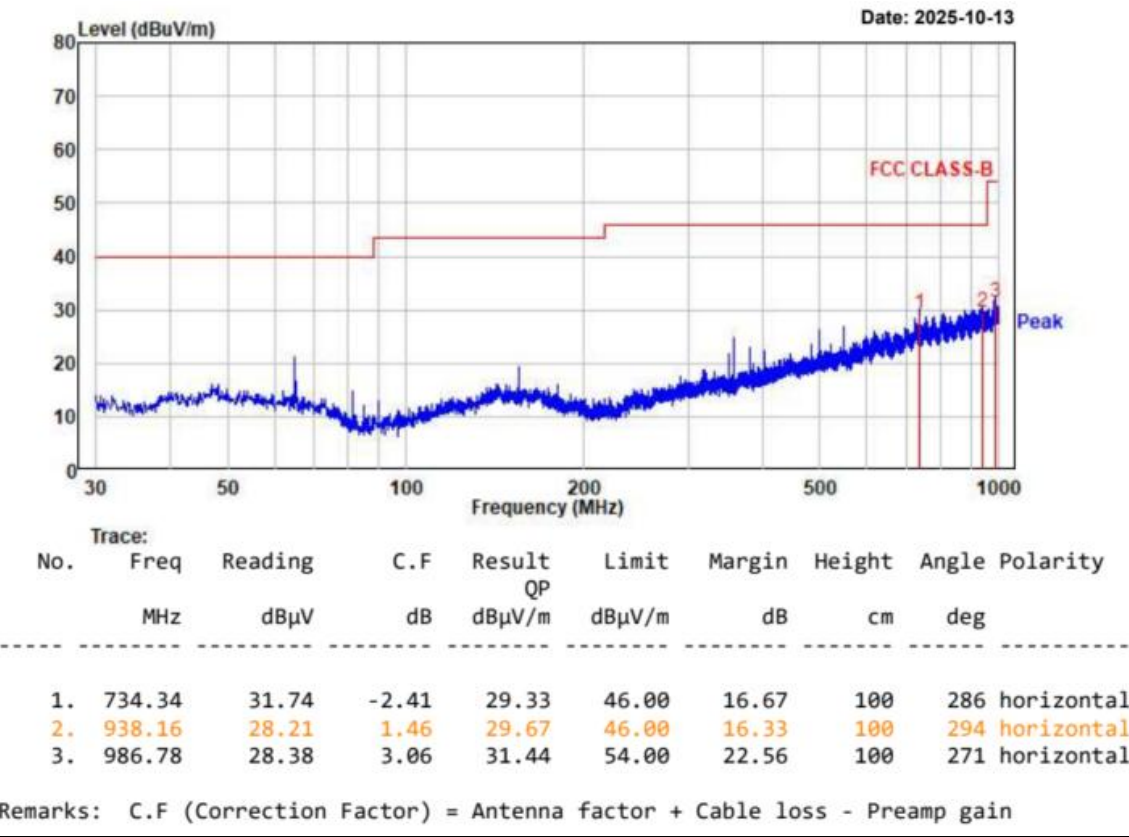
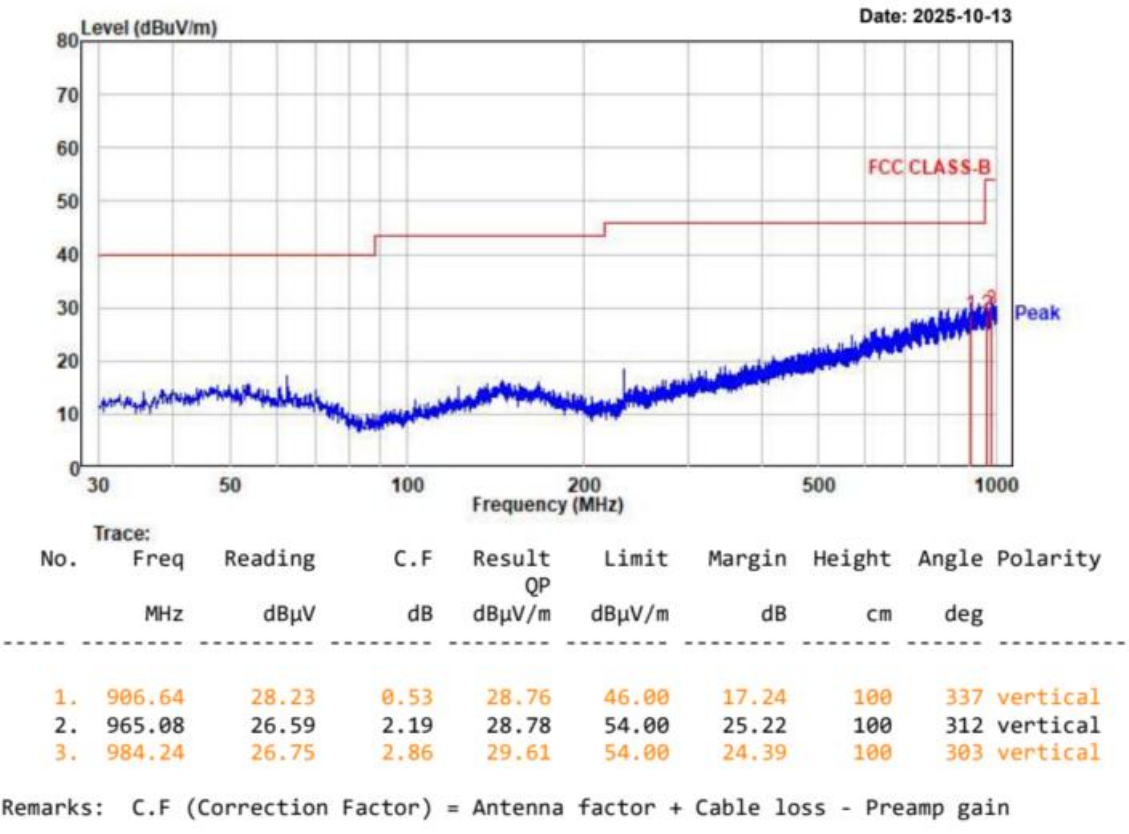
Radiated Emissions



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



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3.2.2 Frequency Tolerance

Procedure:

According to FCC section 15.225, the devices operating in the 13.553~13.567 MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of

-20°C to +50°C using an environmental chamber. The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Measurement Data : Complies

VOLTAGE (%)	Test Conditions		Fre. Dev. (Hz)	Deviation (%)	Verdict
	Power (AC)	Temperature (°C)			
100	120	-20	119	0.0009	PASS
100		-10	135	0.0010	
100		0	104	0.0007	
100		50	96	0.0007	
85	108	20	155	0.0011	
115	132	50	171	0.0012	

Minimum Standard:

±0.01%

Measurement Setup

The EUT, which is powered by the AC Power Supply directly, is located in the Temperature Chamber. The EUT was measured by transmitter mode continuously.

3.2.3 20 dB Bandwidth

Procedure:

According to FCC section 15.215(c), the 20dB bandwidth should be contained within the frequency band designated in the rule section under which the EUT is operated, it was measured with a spectrum analyzer connected the EUT while the EUT is operating in transmission mode.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1 kHz

VBW = 3 X RBW

Trace = max hold

Sweep = auto

Detector function = peak

Measurement Data : **Complies**

BLE Mode

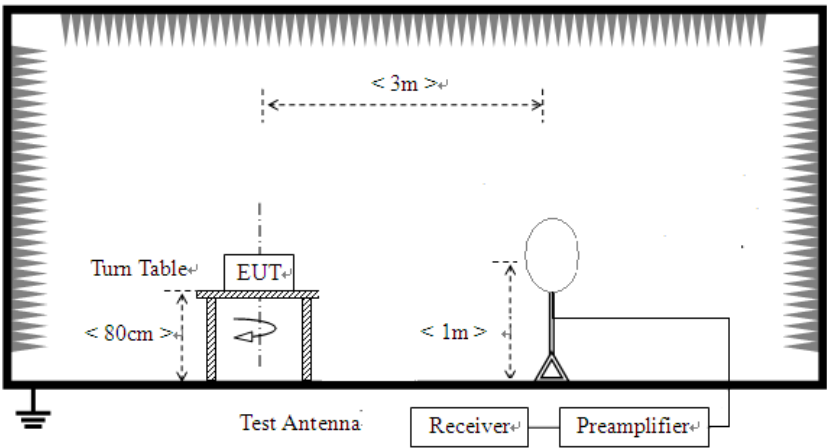
Frequency (MHz)	Test Results	
	Measured Bandwidth (kHz)	Result
13.56	2.38	Complies

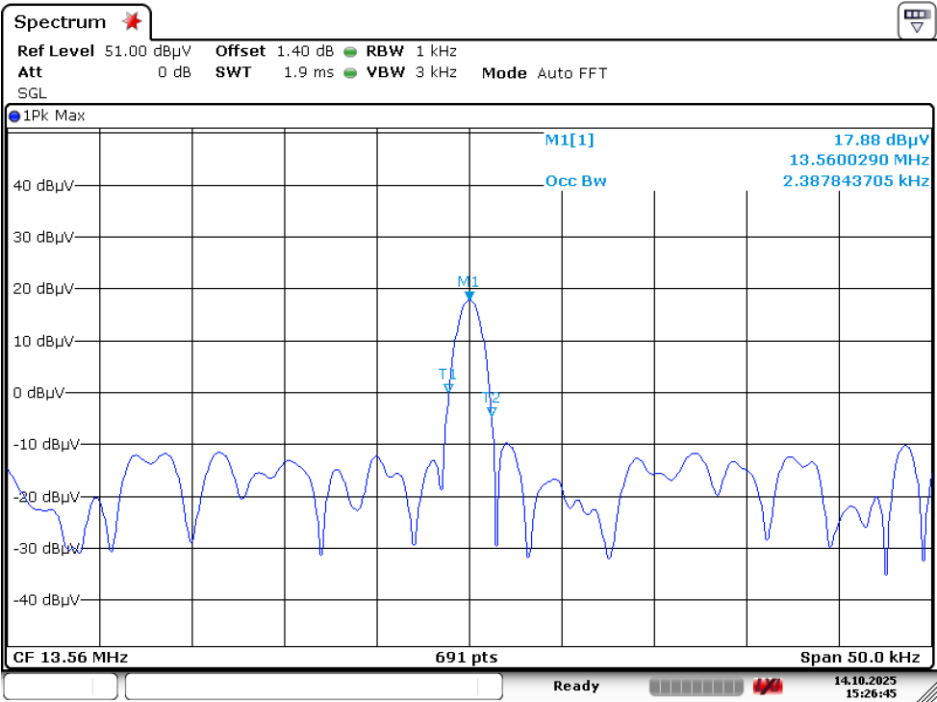
- See next pages for actual measured spectrum plots.

Minimum Standard:

20 dB Bandwidth ≤ 14 kHz

Measurement Setup





3.2.4 AC Conducted Emissions

Procedure:

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

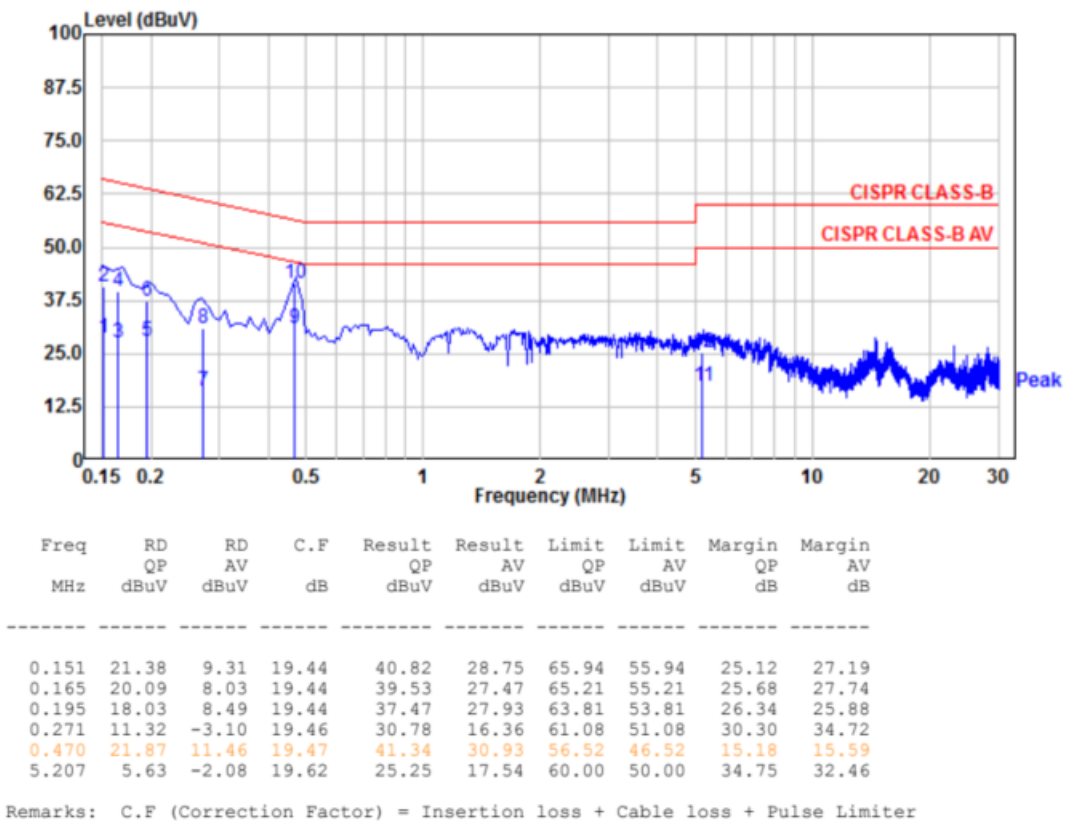
Measurement Data: **Complies**

Class B

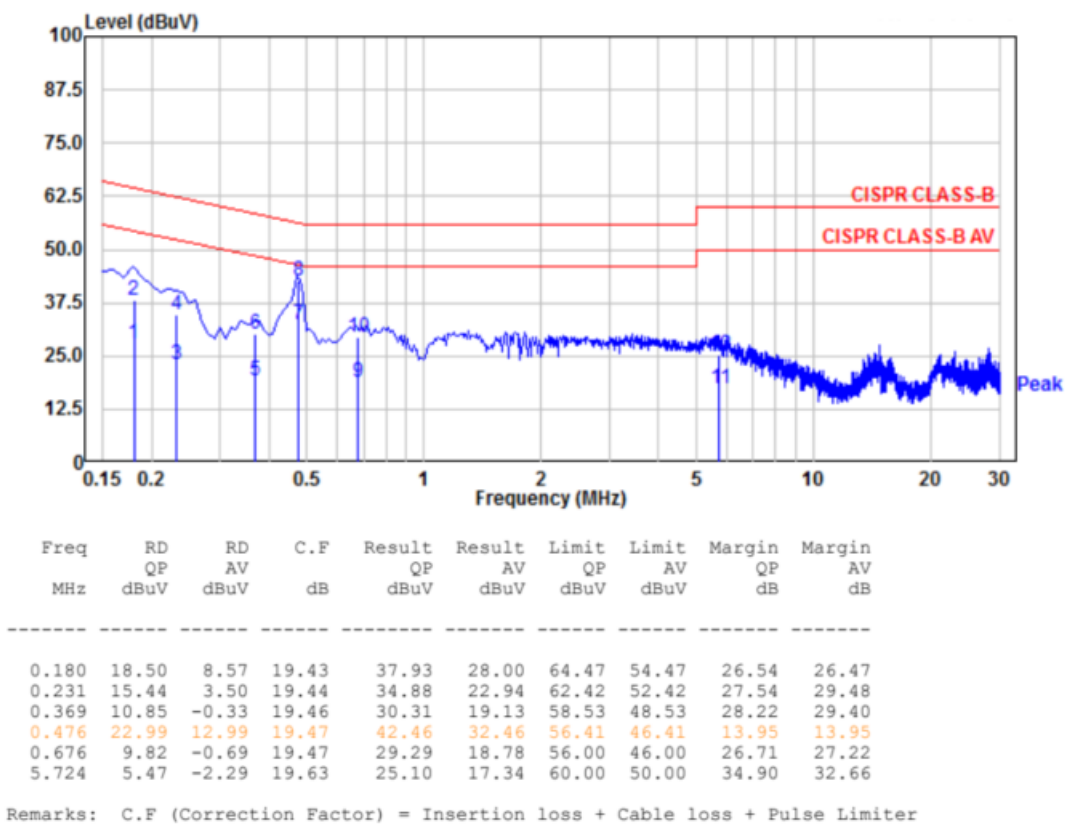
Frequency Range	quasi-peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

NEUTRAL – Operating mode



LINE – Operating mode



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	2026-08-19
2	■	Signal Generator (~3.2 GHz)	8648C	3623A02597	HP	1 year	2026-03-08
3		SYNTHESIZED CW GENERATOR	83711B	US34490456	HP	1 year	2026-03-08
4		Attenuator (3 dB)	8491A	37822	HP	1 year	2026-08-19
5		Attenuator (10 dB)	8491A	63196	HP	1 year	2026-08-19
6	■	EMI Test Receiver (~7 GHz)	ESCI7	100722	R&S	1 year	2026-08-19
7		RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	HP	1 year	2026-08-19
8		RF Amplifier (1~26.5 GHz)	8449B	3008A02126	HP	1 year	2026-03-08
9		Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2025-08-30
10		DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2026-03-08
11		DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2026-03-08
12	■	TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2026-03-08
13		Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2026-03-08
14		Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
15	■	DC Power Supply	6674A	3637A01657	Agilent	-	-
17	■	Power Meter	EPM-441A	GB32481702	HP	1 year	2026-03-08
18	■	Power Sensor	8481A	3318A94972	HP	1 year	2026-08-19
19		Audio Analyzer	8903B	3729A18901	HP	1 year	2026-08-19
20		Modulation Analyzer	8901B	3749A05878	HP	1 year	2026-08-19
21		TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2026-08-19
22		Stop Watch	HS-3	812Q08R	CASIO	2 year	2026-03-14
23	■	LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2026-03-08
24		Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2026-03-08
25		UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2026-03-08
26		Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2026-03-08
27		Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2026-03-08
28		OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2026-03-08
29		Signal Generator(100 kHz ~ 40 GHz)	SMB100A03	177621	R&S	1 year	2026-03-08
30		Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2026-03-08
31	■	Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	2 year	2026-03-08