

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-258-RWD-012
Reception No. : 2505001505
Applicant : MUTi Inc.
Address : 1F-H-2, 8-7, Yuseong-daero 1689, beon-gil, Yuseong-gu, Daejeon, Republic of Korea
Manufacturer : MUTi Inc.
Address : 1F-H-2, 8-7, Yuseong-daero 1689, beon-gil, Yuseong-gu, Daejeon, Republic of Korea
Type of Equipment : MUTi Thera
FCC ID. : 2BRFZ-MT-DU001
Model Name : Smart Beuty Device
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 38 pages (including this page)
Date of Incoming : May 15, 2025
Date of issue : August 20, 2025

SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

한동연




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※ Please refer to the Annex section for All test plots

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-258-RWD-012	August 20, 2025	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : MUTi Inc.

Address : 1F-H-2, 8-7, Yuseong-daero 1689, beon-gil, Yuseong-gu, Daejeon, Republic of Korea

Contact Person : Wantaek Han / CTO

Telephone No. : +82-10-8876-8051

FCC ID : 2BRFZ-MT-DU001

Model Name : Smart Beuty Device

Brand Name : MUTi Thera

Serial Number : N/A

Date : August 20, 2025

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	MUTi Thera
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. TEST SUMMARY

2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	Met the Limit / PASS
15.203	Antenna Requirement	Met requirement / PASS

2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) – Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) – Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The MUTi Inc., Model Smart Beuty Device (referred to as the EUT in this report) is a MUTi Thera. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	MUTi Thera	
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz	
MODULATION TYPE	GFSK	
RF OUTPUT POWER	125 kbps	-6.86 dBm
	500 kbps	-6.84 dBm
	1 Mbps	-6.87 dBm
	2 Mbps	-6.65 dBm
ANTENNA TYPE	Chip Antenna	
ANTENNA GAIN	2.20 dBi	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	16 MHz, 32 MHz, 40 MHz, 490 MHz	

3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

4. EUT MODIFICATIONS

-. None

5. SYSTEM TEST CONFIGURATION

5.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Board 1	MUTi Inc.	-	N/A
Board 2	MUTi Inc.	-	N/A
Board 3	MUTi Inc.	-	N/A
Board 4	MUTi Inc.	-	N/A
Board 5	MUTi Inc.	-	N/A
Board 6	MUTi Inc.	-	N/A

5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
Smart Beuty Device	MUTi Inc.	MUTi Thera (EUT)	
15s-fq1008TU	HP	Notebook PC	EUT
ADS025C1	SOLUM VINA COMPANY LIMITED	Adapter	
TPN-CA14	CHICONY POWER TECHNOLOGY(Chongqing) CO.,LTD.	AC Adapter	

5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 2 402 MHz, 2 440 MHz, and 2 480 MHz to get a maximum emission levels from the EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is “XY” axis, but the worst data was recorded in this report.

-. Frequency / Channel Operations

Channel	Frequency
0	2 402
19	2 440
39	2 480

-. Duty Cycle

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Bluetooth LE [1 Mbps]	2.138	0.362	85.53	0.67
Bluetooth LE [2 Mbps]	1.080	1.875	57.61	2.39
Bluetooth LE [Coded 125 kbps]	2.138	0.362	85.53	0.67
Bluetooth LE [Coded 500 kbps]	2.138	0.362	85.53	0.67

Note – Duty Cycle : $(\text{Tx On Time} / (\text{Tx On Time} + \text{Tx Off Time})) * 100$

Correction Factor : $10 * \text{Log}(1 / (\text{Duty Cycle} / 100))$

5.4 Configuration of Test System

Line Conducted Test: The EUT was connected to adaptor and the power of adaptor was connected to LISN. All supporting equipment were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions.

Radiated Emission Test: Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10: 2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

5.5 Antenna Requirement

For intentional device, according to 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.

Antenna Construction:

The EUT's antenna is a permanently attached Chip Antenna, not designed for user replacement

6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10: 2020.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Output Power	0.90
Conducted Spurious Emission < 26.5 GHz	1.40
Power Spectral Density	1.22
Line Conducted Disturbance (150 kHz ~ 30 MHz)	1.40
Radiated Disturbance (9 kHz ~ 30 MHz)	3.28
Radiated Disturbance (30 MHz ~ 1 GHz)	4.42
Radiated Disturbance (1 GHz ~ 18 GHz)	5.12
Radiated Disturbance (18 GHz ~ 26.5 GHz)	5.55

7. PRELIMINARY TEST

7.1 AC Power line Conducted Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

8.2 General Radiated Emissions Tests

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	X

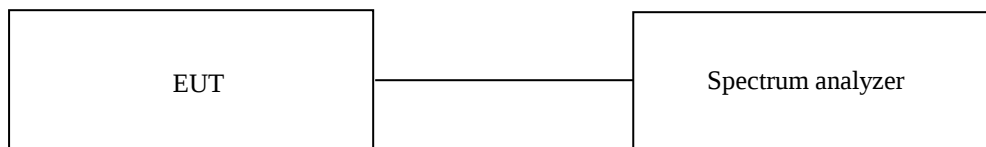
8. MINIMUM 6 dB BANDWIDTH

8.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



8.3 Test Date

May 16, 2025 ~ July 23, 2025

8.4 Test data for 1 Mbps

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	719.30	500.00	219.30
Middle	2 440.00	714.30	500.00	214.30
High	2 480.00	734.30	500.00	234.30

Remark. Margin = Measured Value - Limit

8.5 Test data for 2 Mbps

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	1 139.00	500.00	639.00
Middle	2 440.00	1 159.00	500.00	659.00
High	2 480.00	1 169.00	500.00	659.00

Remark. Margin = Measured Value – Limit

8.6 Test data for Coded 125 kbps

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	719.30	500.00	219.30
Middle	2 440.00	724.30	500.00	224.30
High	2 480.00	719.30	500.00	219.30

Remark. Margin = Measured Value - Limit

8.7 Test data for Coded 500 kbps

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	719.30	500.00	219.30
Middle	2 440.00	709.30	500.00	209.30
High	2 480.00	719.30	500.00	219.30

Remark. Margin = Measured Value – Limit

9. MAXIMUM PEAK OUTPUT POWER

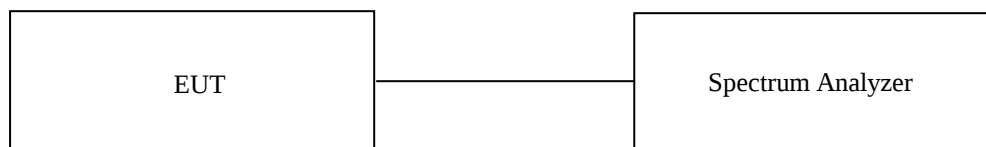
9.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

9.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $\geq$ DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



9.3 Test Date

May 16, 2025 ~ July 23, 2025

9.4 Test data for 1 Mbps

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	-6.87	30.00	36.87
MIDDLE	2 440.00	-8.23	30.00	38.23
HIGH	2 480.00	-9.88	30.00	39.88

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

9.5 Test data for 2 Mbps

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	-6.65	30.00	36.65
MIDDLE	2 440.00	-7.91	30.00	37.91
HIGH	2 480.00	-9.67	30.00	39.67

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

9.6 Test data for Coded 125 kbps

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	-6.86	30.00	36.86
MIDDLE	2 440.00	-8.24	30.00	38.24
HIGH	2 480.00	-9.86	30.00	39.86

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

9.7 Test data for Coded 500 kbps

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	-6.84	30.00	36.84
MIDDLE	2 440.00	-7.93	30.00	37.93
HIGH	2 480.00	-9.87	30.00	39.87

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)

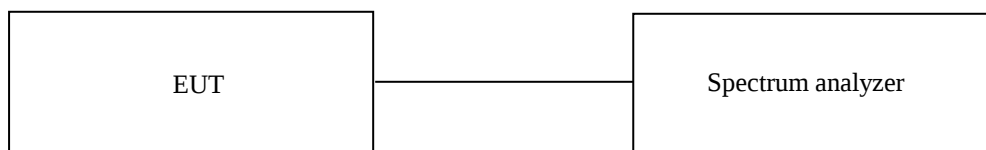
10. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

10.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

10.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, the video bandwidth is set to 3 times the resolution bandwidth and peak detection was used.



10.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

10.4 Test Date

May 16, 2025 ~ July 23, 2025

10.5 Test data for conducted emission

For Test data for conducted emission, please refer to the Annex.

10.6 Test data for radiated emission

10.6.1 Radiated Emission which fall in the Restricted Band

10.6.1.1 Test data for 1 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 85.53 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 337.80	55.51	Peak	H	27.60	2.91	41.74	-	44.28	74.00	29.72
2 338.26	45.86	Average	H	27.60	2.91	41.74	0.67	35.30	54.00	18.70
2 347.91	54.98	Peak	V	27.60	2.91	41.74	-	43.75	74.00	30.25
2 337.98	43.80	Average	V	27.60	2.91	41.74	0.67	33.24	54.00	20.76
Test Data for High Channel										
2 483.54	57.44	Peak	H	27.40	2.93	41.73	-	46.04	74.00	27.96
2 499.23	43.31	Average	H	27.40	2.93	41.73	0.67	32.58	54.00	21.42
2 484.42	56.73	Peak	V	27.40	2.93	41.73	-	45.33	74.00	28.67
2 491.15	43.35	Average	V	27.40	2.93	41.73	0.67	32.62	54.00	21.38

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Gain} + \text{Duty Factor}$$

10.6.1.2 Test data for 2 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 57.61 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 387.15	55.53	Peak	H	27.60	2.91	41.74	-	44.30	74.00	29.70
2 338.07	44.84	Average	H	27.60	2.91	41.74	2.38	35.99	54.00	18.01
2 374.47	54.13	Peak	V	27.60	2.91	41.74	-	42.90	74.00	31.10
2 338.35	43.41	Average	V	27.60	2.91	41.74	2.38	34.56	54.00	19.44
Test Data for High Channel										
2 483.56	57.15	Peak	H	27.40	2.93	41.73	-	45.75	74.00	28.25
2 490.87	43.31	Average	H	27.40	2.93	41.73	2.38	34.39	54.00	19.61
2 483.58	56.61	Peak	V	27.40	2.93	41.73	-	45.21	74.00	28.79
2 498.55	43.32	Average	V	27.40	2.93	41.73	2.38	34.30	54.00	19.70

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Gain} + \text{Duty Factor}$$

10.6.1.3 Test data for Coded 125 kbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 85.53 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 337.71	56.47	Peak	H	27.60	2.91	41.74	-	45.24	74.00	28.76
2 338.17	46.17	Average	H	27.60	2.91	41.74	0.67	35.61	54.00	18.39
2 321.35	54.69	Peak	V	27.60	2.91	41.74	-	43.46	74.00	30.54
2 338.07	43.13	Average	V	27.60	2.91	41.74	0.67	32.57	54.00	21.43
Test Data for High Channel										
2 483.50	57.02	Peak	H	27.40	2.93	41.73	-	45.62	74.00	28.38
2 499.81	43.35	Average	H	27.40	2.93	41.73	0.67	32.62	54.00	21.38
2 483.86	56.16	Peak	V	27.40	2.93	41.73	-	44.76	74.00	29.24
2 499.41	43.34	Average	V	27.40	2.93	41.73	0.67	32.61	54.00	21.39

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Gain} + \text{Duty Factor}$$

10.6.1.4 Test data for Coded 500 kbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 85.53 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 337.80	54.60	Peak	H	27.60	2.91	41.74	-	43.37	74.00	30.63
2 337.98	45.14	Average	H	27.60	2.91	41.74	0.67	34.58	54.00	19.42
2 350.39	53.44	Peak	V	27.60	2.91	41.74	-	42.21	74.00	31.79
2 375.30	42.89	Average	V	27.60	2.91	41.74	0.67	32.33	54.00	21.67
Test Data for High Channel										
2 483.72	55.93	Peak	H	27.40	2.93	41.73	-	44.53	74.00	29.47
2 489.28	43.35	Average	H	27.40	2.93	41.73	0.67	32.62	54.00	21.38
2 483.80	54.80	Peak	V	27.40	2.93	41.73	-	43.40	74.00	30.60
2 498.91	43.31	Average	V	27.40	2.93	41.73	0.67	32.58	54.00	21.42

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Gain} + \text{Duty Factor}$$

10.6.2 Spurious & Harmonic Radiated Emission

10.6.2.1 Test data for 1 Mbps

- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
1 MHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 85.53 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4804.00	52.30	Peak	H	31.30	3.94	42.62	-	44.92	74.00	29.08
4804.00	41.39	Average	H	31.30	3.94	42.62	0.67	34.68	54.00	19.32
4804.00	53.52	Peak	V	31.30	3.94	42.62	-	46.14	74.00	27.86
4804.00	44.11	Average	V	31.30	3.94	42.62	0.67	37.40	54.00	16.60
7206.00	51.75	Peak	H	36.00	4.89	43.06	-	49.58	74.00	24.42
7206.00	40.22	Average	H	36.00	4.89	43.06	0.67	38.72	54.00	15.28
7206.00	52.29	Peak	V	36.00	4.89	43.06	-	50.12	74.00	23.88
7206.00	40.05	Average	V	36.00	4.89	43.06	0.67	38.55	54.00	15.45
Test Data for Middle Channel										
4880.00	52.44	Peak	H	31.30	4.06	42.62	-	45.18	74.00	28.82
4880.00	43.73	Average	H	31.30	4.06	42.62	0.67	37.14	54.00	16.86
4880.00	52.55	Peak	V	31.30	4.06	42.62	-	45.29	74.00	28.71
4880.00	42.34	Average	V	31.30	4.06	42.62	0.67	35.75	54.00	18.25
7320.00	51.23	Peak	H	36.30	4.92	43.07	-	49.38	74.00	24.62
7320.00	39.88	Average	H	36.30	4.92	43.07	0.67	38.70	54.00	15.30
7320.00	51.53	Peak	V	36.30	4.92	43.07	-	49.68	74.00	24.32
7320.00	40.11	Average	V	36.30	4.92	43.07	0.67	38.93	54.00	15.07

Test Data for High Channel										
4960.00	51.42	Peak	H	31.40	4.08	42.68	-	44.22	74.00	29.78
4960.00	39.36	Average	H	31.40	4.08	42.68	0.67	32.83	54.00	21.17
4960.00	50.53	Peak	V	31.40	4.08	42.68	-	43.33	74.00	30.67
4960.00	39.17	Average	V	31.40	4.08	42.68	0.67	32.64	54.00	21.36
7440.00	51.00	Peak	H	36.50	4.94	43.08	-	49.36	74.00	24.64
7440.00	39.34	Average	H	36.50	4.94	43.08	0.67	38.37	54.00	15.63
7440.00	51.11	Peak	V	36.50	4.94	43.08	-	49.47	74.00	24.53
7440.00	39.35	Average	V	36.50	4.94	43.08	0.67	38.38	54.00	15.62

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

10.6.2.2 Test data for 2 Mbps

- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
1 MHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 57.61 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4804.00	52.21	Peak	H	31.30	3.94	42.62	-	44.83	74.00	29.17
4804.00	40.97	Average	H	31.30	3.94	42.62	2.39	35.98	54.00	18.02
4804.00	52.18	Peak	V	31.30	3.94	42.62	-	44.80	74.00	29.20
4804.00	41.83	Average	V	31.30	3.94	42.62	2.39	36.84	54.00	17.16
7206.00	51.83	Peak	H	36.00	4.89	43.06	-	49.66	74.00	24.34
7206.00	40.30	Average	H	36.00	4.89	43.06	2.39	40.52	54.00	13.48
7206.00	51.94	Peak	V	36.00	4.89	43.06	-	49.77	74.00	24.23
7206.00	39.82	Average	V	36.00	4.89	43.06	2.39	40.04	54.00	13.96
Test Data for Middle Channel										
4880.00	52.36	Peak	H	31.30	4.06	42.62	-	45.10	74.00	28.90
4880.00	42.44	Average	H	31.30	4.06	42.62	2.39	37.57	54.00	16.43
4880.00	51.77	Peak	V	31.30	4.06	42.62	-	44.51	74.00	29.49
4880.00	41.36	Average	V	31.30	4.06	42.62	2.39	36.49	54.00	17.51
7320.00	52.03	Peak	H	36.30	4.92	43.07	-	50.18	74.00	23.82
7320.00	39.77	Average	H	36.30	4.92	43.07	2.39	40.31	54.00	13.69
7320.00	51.70	Peak	V	36.30	4.92	43.07	-	49.85	74.00	24.15
7320.00	39.77	Average	V	36.30	4.92	43.07	2.39	40.31	54.00	13.69

Test Data for High Channel										
4960.00	49.88	Peak	H	31.40	4.08	42.68	-	42.68	74.00	31.32
4960.00	39.17	Average	H	31.40	4.08	42.68	2.39	34.36	54.00	19.64
4960.00	50.46	Peak	V	31.40	4.08	42.68	-	43.26	74.00	30.74
4960.00	39.44	Average	V	31.40	4.08	42.68	2.39	34.63	54.00	19.37
7440.00	51.20	Peak	H	36.50	4.94	43.08	-	49.56	74.00	24.44
7440.00	39.67	Average	H	36.50	4.94	43.08	2.39	40.42	54.00	13.58
7440.00	51.48	Peak	V	36.50	4.94	43.08	-	49.84	74.00	24.16
7440.00	39.79	Average	V	36.50	4.94	43.08	2.39	40.54	54.00	13.46

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

10.6.2.1 Test data for Coded 125 kbps

- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
1 MHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 85.53 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	51.09	Peak	H	31.30	3.94	42.62	-	43.71	74.00	30.29
4 804.000	40.48	Average	H	31.30	3.94	42.62	0.67	33.77	54.00	20.23
4 804.000	51.29	Peak	V	31.30	3.94	42.62	-	43.91	74.00	30.09
4 804.000	41.54	Average	V	31.30	3.94	42.62	0.67	34.83	54.00	19.17
7 206.000	51.56	Peak	H	36.00	4.89	43.06	-	49.39	74.00	24.61
7 206.000	40.43	Average	H	36.00	4.89	43.06	0.67	38.93	54.00	15.07
7 206.000	51.76	Peak	V	36.00	4.89	43.06	-	49.59	74.00	24.41
7 206.000	40.12	Average	V	36.00	4.89	43.06	0.67	38.94	54.00	15.06
Test Data for Middle Channel										
4 880.00	52.78	Peak	H	31.30	4.06	42.62	-	45.52	74.00	28.48
4 880.00	43.29	Average	H	31.30	4.06	42.62	0.67	36.70	54.00	17.30
4 880.00	53.63	Peak	V	31.30	4.06	42.62	-	46.37	74.00	27.63
4 880.00	44.79	Average	V	31.30	4.06	42.62	0.67	38.20	54.00	15.80
7 320.00	52.03	Peak	H	36.30	4.92	43.07	-	50.18	74.00	23.82
7 320.00	39.97	Average	H	36.30	4.92	43.07	0.67	38.79	54.00	15.21
7 320.00	51.76	Peak	V	36.30	4.92	43.07	-	49.91	74.00	24.09
7 320.00	40.17	Average	V	36.30	4.92	43.07	0.67	38.99	54.00	15.01

Test Data for High Channel										
4 960.00	48.88	Peak	H	31.40	4.08	42.68	-	41.68	74.00	32.32
4 960.00	38.24	Average	H	31.40	4.08	42.68	0.67	31.71	54.00	22.29
4 960.00	49.43	Peak	V	31.40	4.08	42.68	-	42.23	74.00	31.77
4 960.00	38.48	Average	V	31.40	4.08	42.68	0.67	31.95	54.00	22.05
7 440.00	50.95	Peak	H	36.50	4.94	43.08	-	49.31	74.00	24.69
7 440.00	39.73	Average	H	36.50	4.94	43.08	0.67	38.76	54.00	15.24
7 440.00	51.89	Peak	V	36.50	4.94	43.08	-	50.25	74.00	23.75
7 440.00	39.80	Average	V	36.50	4.94	43.08	0.67	38.83	54.00	15.17

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

10.6.2.2 Test data for Coded 500 kbps

- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
1 MHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 85.53 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	50.78	Peak	H	31.30	3.94	42.62	-	43.40	74.00	30.60
4 804.00	40.12	Average	H	31.30	3.94	42.62	0.67	33.41	54.00	20.59
4 804.00	52.56	Peak	V	31.30	3.94	42.62	-	45.18	74.00	28.82
4 804.00	42.32	Average	V	31.30	3.94	42.62	0.67	35.61	54.00	18.39
7 206.00	51.51	Peak	H	36.00	4.89	43.06	-	49.34	74.00	24.66
7 206.00	40.07	Average	H	36.00	4.89	43.06	0.67	38.57	54.00	15.43
7 206.00	51.75	Peak	V	36.00	4.89	43.06	-	49.58	74.00	24.42
7 206.00	39.88	Average	V	36.00	4.89	43.06	0.67	38.38	54.00	15.62
Test Data for Middle Channel										
4 880.00	52.22	Peak	H	31.30	4.06	42.62	-	44.96	74.00	29.04
4 880.00	43.14	Average	H	31.30	4.06	42.62	0.67	36.55	54.00	17.45
4 880.00	52.48	Peak	V	31.30	4.06	42.62	-	45.22	74.00	28.78
4 880.00	42.34	Average	V	31.30	4.06	42.62	0.67	35.75	54.00	18.25
7 320.00	52.67	Peak	H	36.30	4.92	43.07	-	50.82	74.00	23.18
7 320.00	38.93	Average	H	36.30	4.92	43.07	0.67	37.75	54.00	16.25
7 320.00	51.83	Peak	V	36.30	4.92	43.07	-	49.98	74.00	24.02
7 320.00	39.94	Average	V	36.30	4.92	43.07	0.67	38.76	54.00	15.24

Test Data for High Channel										
4 960.00	48.84	Peak	H	31.40	4.08	42.68	-	41.64	74.00	32.36
4 960.00	38.03	Average	H	31.40	4.08	42.68	0.67	31.50	54.00	22.50
4 960.00	49.66	Peak	V	31.40	4.08	42.68	-	42.46	74.00	31.54
4 960.00	38.29	Average	V	31.40	4.08	42.68	0.67	31.76	54.00	22.24
7 440.00	51.69	Peak	H	36.50	4.94	43.08	-	50.05	74.00	23.95
7 440.00	39.70	Average	H	36.50	4.94	43.08	0.67	38.73	54.00	15.27
7 440.00	51.47	Peak	V	36.50	4.94	43.08	-	49.83	74.00	24.17
7 440.00	39.86	Average	V	36.50	4.94	43.08	0.67	38.89	54.00	15.11

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

11. PEAK POWER SPECTRAL DENSITY

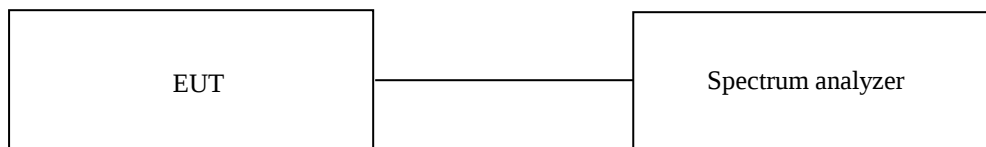
11.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

11.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, the video bandwidth is set to 3 times the resolution bandwidth.



11.3 Test Date

May 16, 2025 ~ July 23, 2025

11.4 Test data for 1 Mbps

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 402.00	-22.92	8.00	30.92
Middle	2 440.00	-24.60	8.00	32.60
High	2 480.00	-26.23	8.00	34.23

Remark. Margin = Limit – Measured value

11.5 Test data for 2 Mbps

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 402.00	-24.77	8.00	32.77
Middle	2 440.00	-26.21	8.00	34.21
High	2 480.00	-27.81	8.00	35.81

Remark. Margin = Limit – Measured value

11.6 Test data for Coded 125 kbps

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 402.00	-23.21	8.00	31.21
Middle	2 440.00	-24.61	8.00	32.61
High	2 480.00	-26.29	8.00	34.29

Remark. Margin = Limit – Measured value

11.7 Test data for Coded 500 kbps

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 402.00	-23.33	8.00	31.33
Middle	2 440.00	-24.54	8.00	32.54
High	2 480.00	-26.30	8.00	34.30

Remark. Margin = Limit – Measured value

12. RADIATED EMISSION TEST

12.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

12.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

12.3 Test Date

May 16, 2025 ~ July 23, 2025

12.4 Test data for 30 MHz ~ 1 000 MHz

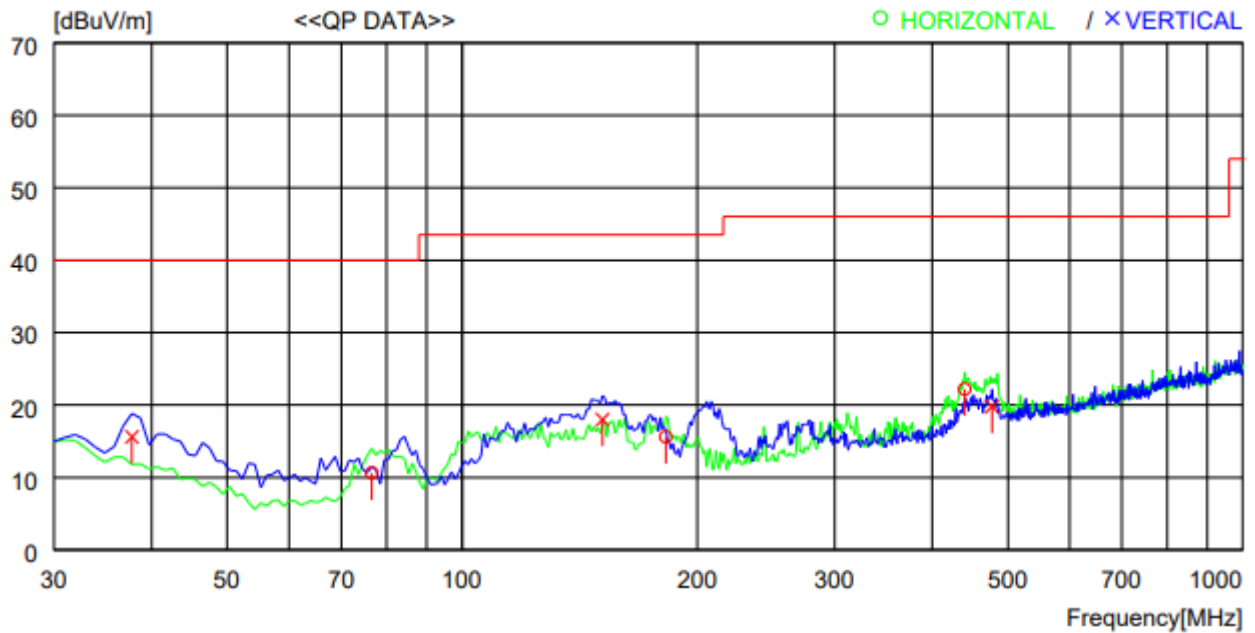
12.4.1 Test data for Bluetooth LE

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : MUTi Thera

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	76.560	29.1	13.3	1.2	33.0	10.6	40.0	29.4	321	359
2	182.290	30.2	16.6	1.8	33.0	15.6	43.5	27.9	185	57
3	440.311	29.9	22.6	2.8	33.1	22.2	46.0	23.8	277	291
----- Vertical -----										
4	37.760	29.6	18.2	0.9	33.1	15.6	40.0	24.4	118	291
5	151.250	30.5	18.8	1.7	33.0	18.0	43.5	25.5	152	60
6	477.171	26.7	23.2	3.0	33.1	19.8	46.0	26.2	133	0

12.5 Test data for Below 30 MHz

- Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- Frequency range : 9 kHz ~ 30 MHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

12.6 Test data for above 1 GHz

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.									

13. CONDUCTED EMISSION TEST

13.1 Operating environment

Temperature : 24 °C
Relative humidity : 54 % R.H.

13.2 Test set-up

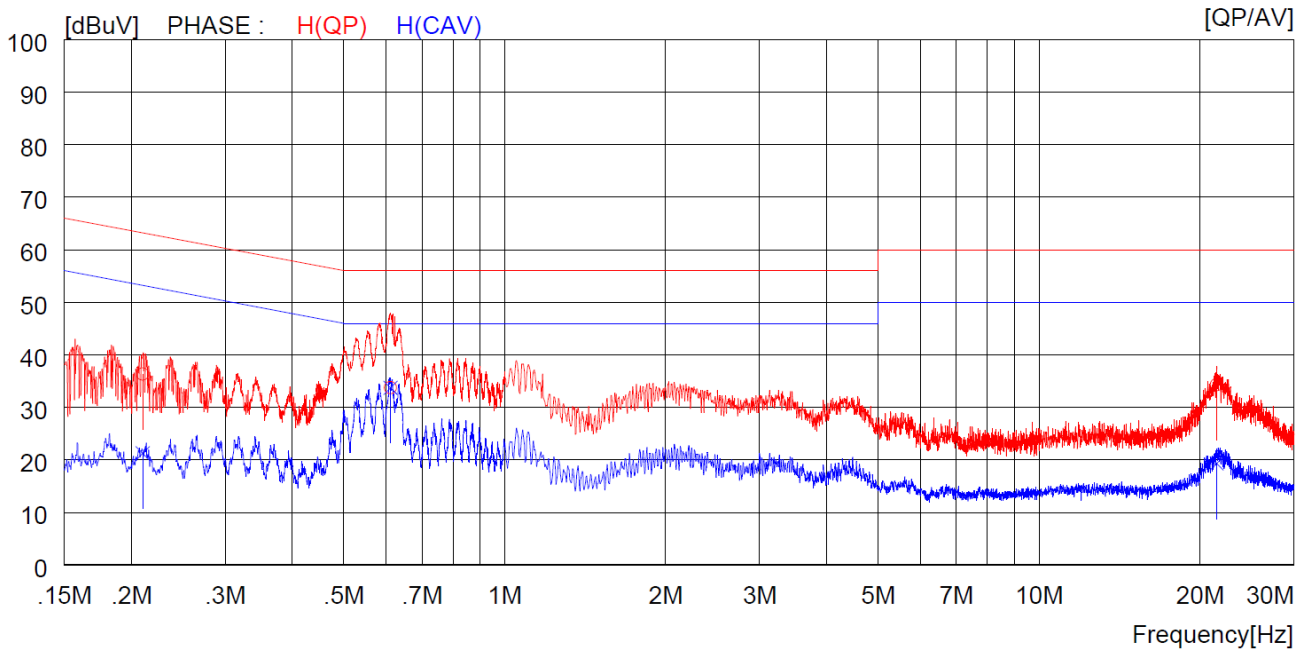
The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

13.3 Test Date

May 16, 2025 ~ July 23, 2025

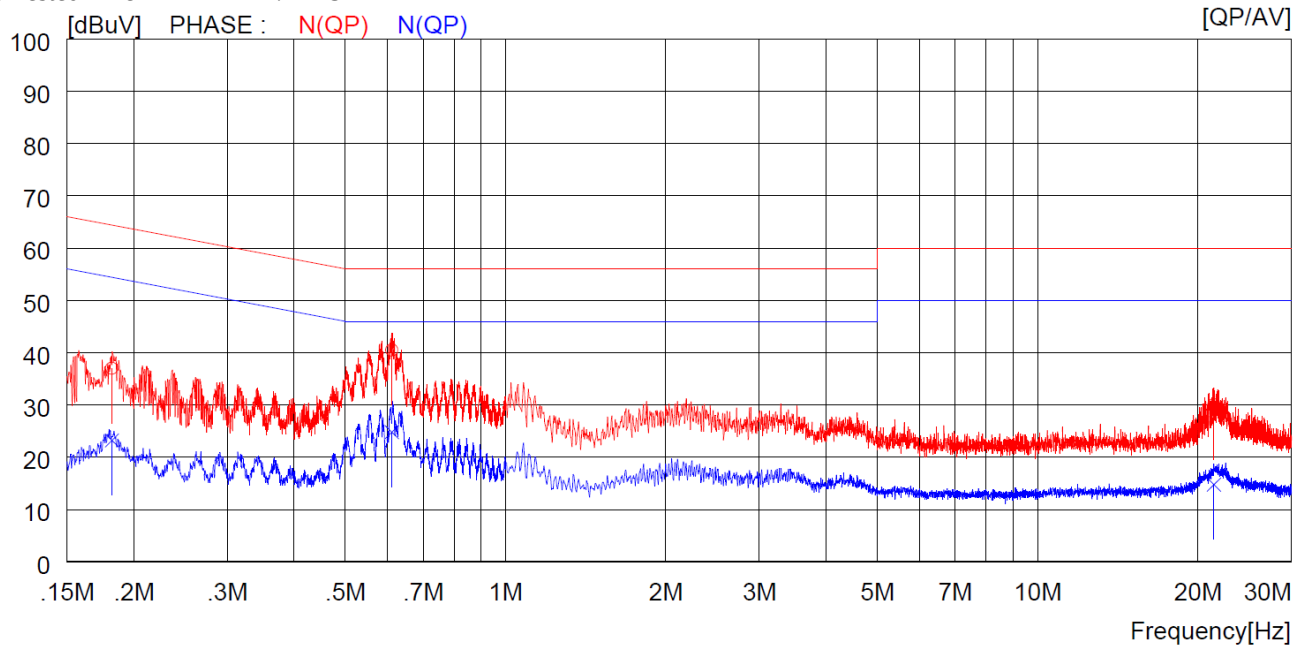
13.4 Test data for Bluetooth LE

- . Resolution bandwidth : 9 kHz
- . Frequency range : 0.15 MHz ~ 30 MHz
- . Tested Line : HOT LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.21000	26.2	----	10.1	36.3	----	63.2	----	26.9	----	H (QP)
2	0.61100	23.6	----	10.1	33.7	----	56.0	----	22.3	----	H (QP)
3	21.49000	23.1	----	11.2	34.3	----	60.0	----	25.7	----	H (QP)
4	0.21000	----	11.1	10.1	----	21.2	----	53.2	----	32.0	H (CAV)
5	0.61100	----	23.6	10.1	----	33.7	----	46.0	----	12.3	H (CAV)
6	21.49000	----	8.1	11.2	----	19.3	----	50.0	----	30.7	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18200	26.9	----	10.1	37.0	----	64.4	----	27.4	----	N (QP)
2	0.61100	30.4	----	10.1	40.5	----	56.0	----	15.5	----	N (QP)
3	21.46000	18.8	----	11.2	30.0	----	60.0	----	30.0	----	N (QP)
4	0.18200	----	13.1	10.1	----	23.2	----	54.4	----	31.2	N (CAV)
5	0.61100	----	14.7	10.1	----	24.8	----	46.0	----	21.2	N (CAV)
6	21.46000	----	3.6	11.2	----	14.8	----	50.0	----	35.2	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

14. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
ESR	Rohde & Schwarz	EMI Test Receiver	101470	Mar.11, 2025(1Y)
FSVA40	Rohde & Schwarz	Signal Analyzer	101598	Jan.13, 2025(1Y)
310N	Sonoma Instrument	AMPLIFIER	312545	Mar.11.2025(1Y)
SCU18	Rohde & Schwarz	Signal Conditioning unit	102266	Jul. 02, 2025(1Y)
SCU40A	Rohde & Schwarz	Signal Conditioning unit	100436	Jan. 15, 2025(1Y)
FMZB 1519-60D	Schwarzbeck	Active Magnetic Loop Antenna	00113	Jan.07,2025(2Y)
HLP-2008	TDK RF Solutions	TRILOG BROADBAND ANTENNA	131314	Mar.01, 2025(2Y)
BBHA9120D	Rohde & Schwarz	Horn Antenna	9120D-1349	Jun. 27, 2025(1Y)
BBHA9170	Rohde & Schwarz	Horn Antenna	BBHA9170178	Jan. 04, 2025(1Y)
FMZB 1519-60D	Schwarzbeck	Active Magnetic Loop Antenna	00113	Jan.07,2025(2Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 13, 2025(1Y)
ESCI	Rohde & Schwarz	TEST Receiver	101012	Set. 26, 2024(1Y)
NSLK8126	Schwarzbeck	AMN	8126404	Mar. 12, 2025(1Y)
ESH3-Z2	Rohde & Schwarz	Pulse Limiter	100655	Mar. 12, 2025(1Y)