

RADIO PERFORMANCE TEST REPORT

Test Report No. : OT-25D-RWD-011
Reception No. : 2511003763
Applicant : OceansBio Co., Ltd
Address : 46, Changwon-daero 18beon-gil, Uichang-gu, Chang-won-si, Gyeongsangnam-do, South Korea
Manufacturer : OceansBio Co., Ltd
Address : 46, Changwon-daero 18beon-gil, Uichang-gu, Chang-won-si, Gyeongsangnam-do, South Korea
Type of Equipment : BeCozU
FCC ID. : 2BTFO-OC-NF01
Model Name : OC-NF01
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 33 pages (including this page)
Date of Incoming : November 14, 2025
Date of issue : December 11, 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 test report is not associated with the accreditation granted by the Korean Laboratory Accreditation Scheme (KOLAS).





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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-25D-RWD-011	December 11, 2025	Initial Release	All

1. VERIFICATION OF COMPLIANCE

Applicant : OceansBio Co., Ltd

Address : 46, Changwon-daero 18beon-gil, Uichang-gu, Chang-won-si, Gyeongsangnam-do, South Korea

Contact Person : Seungbong Lee / Principal Manager

Telephone No. : +82-2-717-2640

FCC ID : 2BTFO-OC-NF01

Model Name : OC-NF01

Brand Name : Oceansbio

Serial Number : N/A

Date : December 11, 2025

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	BeCozU
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	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note. : This test is not performed because the EUT is operated by DC battery.

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

-. Lab Accreditation:

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

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

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) – Designation No. KR0013

3. GENERAL INFORMATION

3.1 Product Description

The OceansBio Co., Ltd, Model OC-NF01 (referred to as the EUT in this report) is a BeCozU. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE		BeCozU		
Temperature Range		0 °C ~ 60 °C		
OPERATING FREQUENCY		Bluetooth	2 402 MHz ~ 2 480 MHz	
		Bluetooth LE	2 402 MHz ~ 2 480 MHz	
MODULATION TYPE		Bluetooth	GFSK for 1Mbps, π /4-DQPSK for 2Mbps, 8-DPSK for 3Mbps	
		Bluetooth LE	GFSK for 1 Mbps / 2 Mbps	
RF OUTPUT POWER	Left Earbud	Bluetooth	1 Mbps	2.96 dBm
			2 Mbps	2.84 dBm
			3 Mbps	3.47 dBm
		Bluetooth LE	1 Mbps	3.01 dBm
			2 Mbps	3.05 dBm
	Right Earbud	Bluetooth	1 Mbps	-3.88 dBm
			2 Mbps	-3.43 dBm
			3 Mbps	-2.55 dBm
		Bluetooth LE	1 Mbps	-3.20 dBm
			2 Mbps	-3.24 dBm
NUMBER OF CHANNEL		Bluetooth	79 Channels	
		Bluetooth LE	40 Channels	
ANTENNA TYPE	Left Earbud	Ceramic SMT Antenna		
	Right Earbud			
ANTENNA GAIN	Left Earbud	2.70 dBi		
	Right Earbud	2.70 dBi		
ANTENNA TRANSMIT TYPE	Left Earbud	Bluetooth / Bluetooth LE: 1T1R		
	Right Earbud			
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)		32 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
Main Board	OceansBio Co., Ltd	N/A	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
OC-NF01	OceansBio Co., Ltd	BeCozU (EUT)	
P1512CE	ASUSTeK Computer Inc.	Notebook PC	EUT
ADP-45ZE B	ASUSTeK Computer Inc.	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 [Left Earbud]

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Bluetooth LE [1 Mbps]	2.106	0.353	85.63	0.67
Bluetooth LE [2 Mbps]	1.085	0.791	57.84	2.38

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

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

-. Duty Cycle [Right Earbud]

Mode	Tx On Time [ms]	Tx Off Time [ms]	Duty Cycle [%]	Correction Factor [dB]
Bluetooth LE [1 Mbps]	2.139	0.360	85.60	0.68
Bluetooth LE [2 Mbps]	1.084	0.791	57.82	2.38

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 is operated by DC battery, this test item is not requirement to be performed.
- 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 antennas are a PIFA antenna and a Patch antenna, which are permanently attached to the EUT and cannot be replaced by the user.

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	1.22
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 ~ 40 GHz)	5.12

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)
This test is not performed because the EUT is wireless function does not work while charging mode.	

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

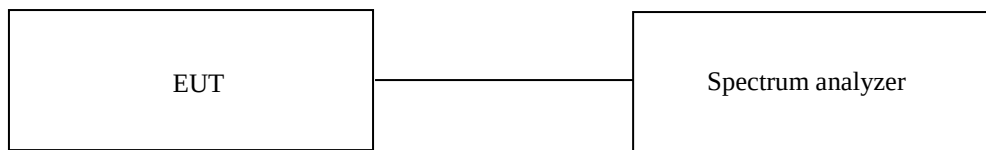
8. MINIMUM 6 dB BANDWIDTH

8.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % 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

November 14, 2025 ~ December 10, 2025

8.4 Test data for 1 Mbps [Left Earbud]

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	724.22	500.00	224.22
Middle	2 440.00	724.22	500.00	224.22
High	2 480.00	719.36	500.00	219.36

Remark. Margin = Measured Value - Limit

8.5 Test data for 2 Mbps [Left Earbud]

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	1 278.72	500.00	778.72
Middle	2 440.00	1 268.74	500.00	768.74
High	2 480.00	1 268.74	500.00	768.74

Remark. Margin = Measured Value – Limit

8.6 Test data for 1 Mbps [Right Earbud]

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	719.10	500.00	219.10
Middle	2 440.00	724.22	500.00	224.22
High	2 480.00	724.22	500.00	224.22

Remark. Margin = Measured Value - Limit

8.7 Test data for 2 Mbps [Right Earbud]

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (kHz)	LIMIT (kHz)	MARGIN (kHz)
Low	2 402.00	1 268.74	500.00	768.74
Middle	2 440.00	1 268.74	500.00	768.74
High	2 480.00	1 268.74	500.00	768.74

Remark. Margin = Measured Value – Limit

9. MAXIMUM PEAK OUTPUT POWER

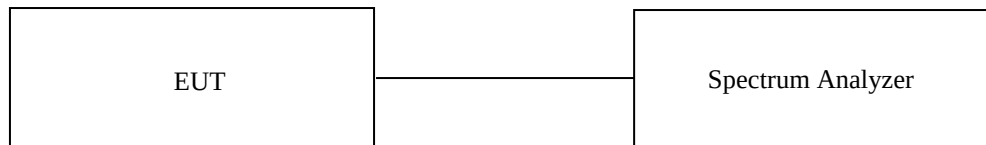
9.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % 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

November 14, 2025 ~ December 10, 2025

9.4 Test data for 1 Mbps [Left Earbud]

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	1.66	30.00	28.34
MIDDLE	2 440.00	2.04	30.00	27.96
HIGH	2 480.00	3.01	30.00	26.99

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

9.5 Test data for 2 Mbps [Left Earbud]

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	1.72	30.00	28.28
MIDDLE	2 440.00	2.07	30.00	27.93
HIGH	2 480.00	3.05	30.00	26.95

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

9.6 Test data for 1 Mbps [Right Earbud]

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	-3.70	30.00	33.70
MIDDLE	2 440.00	-3.33	30.00	33.33
HIGH	2 480.00	-3.20	30.00	33.20

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

9.7 Test data for 2 Mbps [Right Earbud]

-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	-3.77	30.00	33.77
MIDDLE	2 440.00	-3.43	30.00	33.43
HIGH	2 480.00	-3.24	30.00	33.24

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

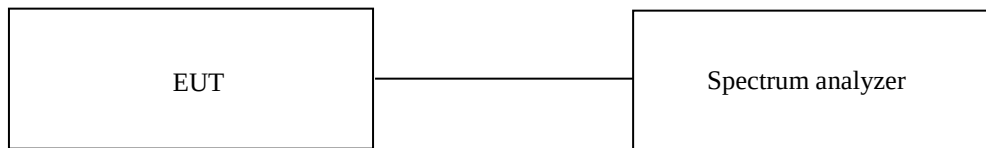
10. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

10.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % 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

November 14, 2025 ~ December 10, 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 [Left Earbud]

10.6.1 Radiated Emission which fall in the Restricted Band [Left Earbud]

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 : 85.63 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 349.480	56.92	Peak	H	27.70	4.98	46.98	6.03	-	48.65	74.00	25.35
2 398.220	45.29	Average	H	27.62	4.98	46.98	6.03	0.67	37.61	54.00	16.39
2 323.370	56.73	Peak	V	27.81	4.98	46.98	6.03	-	48.57	74.00	25.43
2 388.720	45.50	Average	V	27.62	4.98	46.98	6.03	0.67	37.82	54.00	16.18
Test Data for High Channel											
2 484.010	62.96	Peak	H	27.60	4.74	46.98	6.03	-	54.35	74.00	19.65
2 484.090	46.83	Average	H	27.60	4.74	46.98	6.03	0.67	38.89	54.00	15.11
2 483.670	64.52	Peak	V	27.60	4.74	46.98	6.03	-	55.91	74.00	18.09
2 483.510	46.78	Average	V	27.60	4.74	46.98	6.03	0.67	38.84	54.00	15.16

Tabulated test data for Restricted Band

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

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

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + ATT + 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 : 57.84 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 342.580	56.95	Peak	H	27.73	4.98	46.98	6.03	-	48.71	74.00	25.29
2 389.090	45.47	Average	H	27.62	4.98	46.98	6.03	2.38	39.50	54.00	14.50
2 389.090	57.11	Peak	V	27.62	4.98	46.98	6.03	-	48.76	74.00	25.24
2 390.010	45.38	Average	V	27.62	4.98	46.98	6.03	2.38	39.41	54.00	14.59
Test Data for High Channel											
2 483.730	64.81	Peak	H	27.40	4.74	46.98	6.03	-	56.00	74.00	18.00
2 483.530	52.45	Average	H	27.40	4.74	46.98	6.03	2.38	46.02	54.00	7.98
2 483.750	64.13	Peak	V	27.40	4.74	46.98	6.03	-	55.32	74.00	18.68
2 483.530	52.93	Average	V	27.40	4.74	46.98	6.03	2.38	46.50	54.00	7.50

Tabulated test data for Restricted Band

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

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

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

10.6.2 Spurious & Harmonic Radiated Emission [Left Earbud]

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 : 85.63 %
- 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	54.47	Peak	H	31.50	7.49	46.24	-	47.22	74.00	26.78
4 804.000	42.39	Average	H	31.50	7.49	46.24	0.67	35.81	54.00	18.19
4 804.000	55.16	Peak	V	31.50	7.49	46.24	-	47.91	74.00	26.09
4 804.000	42.83	Average	V	31.50	7.49	46.24	0.67	36.25	54.00	17.75
Test Data for Middle Channel										
4 880.000	53.60	Peak	H	31.50	7.58	46.24	-	46.44	74.00	27.56
4 880.000	41.58	Average	H	31.50	7.58	46.24	0.67	35.09	54.00	18.91
4 880.000	53.85	Peak	V	31.50	7.58	46.24	-	46.69	74.00	27.31
4 880.000	41.39	Average	V	31.50	7.58	46.24	0.67	34.90	54.00	19.10
Test Data for High Channel										
4 960.000	53.12	Peak	H	31.65	7.69	46.24	-	46.22	74.00	27.78
4 960.000	41.34	Average	H	31.66	7.69	46.24	0.67	35.12	54.00	18.88
4 960.000	53.54	Peak	V	31.66	7.69	46.24	-	46.65	74.00	27.35
4 960.000	41.20	Average	V	31.63	7.69	46.24	0.67	34.95	54.00	19.05

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

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

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

10.6.2.2 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 : 57.84 %
- 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	53.92	Peak	H	31.50	7.49	46.24	-	46.67	74.00	27.33
4 804.000	42.20	Average	H	31.50	7.49	46.24	2.38	37.33	54.00	16.67
4 804.000	56.40	Peak	V	31.50	7.49	46.24	-	49.15	74.00	24.85
4 804.000	43.45	Average	V	31.50	7.49	46.24	2.38	38.58	54.00	15.42
Test Data for Middle Channel										
4 880.000	53.77	Peak	H	31.50	7.58	46.24	-	46.61	74.00	27.39
4 880.000	41.28	Average	H	31.50	7.58	46.24	2.38	36.50	54.00	17.50
4 880.000	53.37	Peak	V	31.50	7.58	46.24	-	46.21	74.00	27.79
4 880.000	41.50	Average	V	31.50	7.58	46.24	2.38	36.72	54.00	17.28
Test Data for High Channel										
4 960.000	53.55	Peak	H	31.65	7.69	46.24	-	46.65	74.00	27.35
4 960.000	41.37	Average	H	31.66	7.69	46.24	2.38	36.86	54.00	17.14
4 960.000	53.36	Peak	V	31.66	7.69	46.24	-	46.47	74.00	27.53
4 960.000	41.28	Average	V	31.63	7.69	46.24	2.38	36.74	54.00	17.26

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

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

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

10.7 Test data for radiated emission [Right Earbud]

10.7.1 Radiated Emission which fall in the Restricted Band [Right Earbud]

10.7.1.1 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 : 85.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 346.070	55.41	Peak	H	27.72	4.98	46.98	6.03	-	47.16	74.00	26.84
2 364.270	43.82	Average	H	27.67	4.98	46.98	6.03	0.68	36.20	54.00	17.80
2 339.090	56.05	Peak	V	27.74	4.98	46.98	6.03	-	47.82	74.00	26.18
2 331.460	43.70	Average	V	27.77	4.98	46.98	6.03	0.68	36.18	54.00	17.82
Test Data for High Channel											
2 488.580	55.81	Peak	H	27.60	4.74	46.98	6.03	-	47.20	74.00	26.80
2 485.320	43.84	Average	H	27.60	4.74	46.98	6.03	0.68	35.91	54.00	18.09
2 489.260	55.68	Peak	V	27.60	4.74	46.98	6.03	-	47.07	74.00	26.93
2 496.830	43.86	Average	V	27.60	4.74	46.98	6.03	0.68	35.93	54.00	18.07

Tabulated test data for Restricted Band

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

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

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

10.7.1.2 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 : 57.82 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	ATT (dB)	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel											
2 368.590	55.32	Peak	H	27.66	4.98	46.98	6.03	-	47.01	74.00	26.99
2 377.970	43.80	Average	H	27.64	4.98	46.98	6.03	2.38	37.85	54.00	16.15
2 361.700	55.78	Peak	V	27.68	4.98	46.98	6.03	-	47.49	74.00	26.51
2 352.420	43.75	Average	V	27.70	4.98	46.98	6.03	2.38	37.86	54.00	16.14
Test Data for High Channel											
2 483.630	56.19	Peak	H	27.60	4.74	46.98	6.03	-	47.58	74.00	26.42
2 483.670	44.24	Average	H	27.60	4.74	46.98	6.03	2.38	38.01	54.00	15.99
2 484.650	55.63	Peak	V	27.60	4.74	46.98	6.03	-	47.02	74.00	26.98
2 483.850	43.93	Average	V	27.60	4.74	46.98	6.03	2.38	37.70	54.00	16.30

Tabulated test data for Restricted Band

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

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

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

10.7.2 Spurious & Harmonic Radiated Emission [Right Earbud]

10.7.2.1 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 : 85.60 %
- 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	51.41	Peak	H	31.50	7.49	46.24	-	44.16	74.00	29.84
4 804.000	39.37	Average	H	31.50	7.49	46.24	0.68	32.80	54.00	21.20
4 804.000	50.97	Peak	V	31.50	7.49	46.24	-	43.72	74.00	30.28
4 804.000	39.24	Average	V	31.50	7.49	46.24	0.68	32.67	54.00	21.33
Test Data for Middle Channel										
4 880.000	49.71	Peak	H	31.50	7.58	46.24	-	42.55	74.00	31.45
4 880.000	37.88	Average	H	31.50	7.58	46.24	0.68	31.40	54.00	22.60
4 880.000	49.80	Peak	V	31.50	7.58	46.24	-	42.64	74.00	31.36
4 880.000	37.91	Average	V	31.50	7.58	46.24	0.68	31.43	54.00	22.57
Test Data for High Channel										
4 960.000	50.05	Peak	H	31.65	7.69	46.24	-	43.15	74.00	30.85
4 960.000	37.68	Average	H	31.66	7.69	46.24	0.68	31.47	54.00	22.53
4 960.000	50.03	Peak	V	31.66	7.69	46.24	-	43.14	74.00	30.86
4 960.000	37.86	Average	V	31.63	7.69	46.24	0.68	31.62	54.00	22.38

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

10.7.2.2 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 : 57.82 %
- 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	51.41	Peak	H	31.50	7.49	46.24	-	44.16	74.00	29.84
4 804.000	39.37	Average	H	31.50	7.49	46.24	2.38	34.50	54.00	19.50
4 804.000	50.97	Peak	V	31.50	7.49	46.24	-	43.72	74.00	30.28
4 804.000	39.24	Average	V	31.50	7.49	46.24	2.38	34.37	54.00	19.63
Test Data for Middle Channel										
4 880.000	49.71	Peak	H	31.50	7.58	46.24	-	42.55	74.00	31.45
4 880.000	37.88	Average	H	31.50	7.58	46.24	2.38	33.10	54.00	20.90
4 880.000	49.80	Peak	V	31.50	7.58	46.24	-	42.64	74.00	31.36
4 880.000	37.91	Average	V	31.50	7.58	46.24	2.38	33.13	54.00	20.87
Test Data for High Channel										
4 960.000	50.05	Peak	H	31.65	7.69	46.24	-	43.15	74.00	30.85
4 960.000	37.68	Average	H	31.66	7.69	46.24	2.38	33.17	54.00	20.83
4 960.000	50.03	Peak	V	31.66	7.69	46.24	-	43.14	74.00	30.86
4 960.000	37.86	Average	V	31.63	7.69	46.24	2.38	33.32	54.00	20.68

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

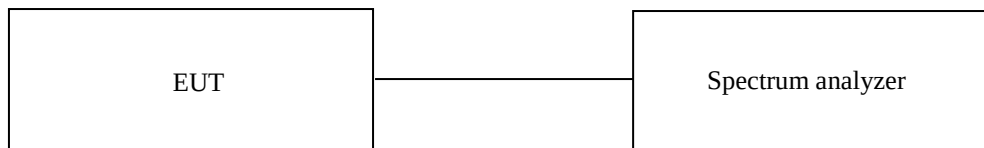
11.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % 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

November 14, 2025 ~ December 10, 2025

11.4 Test data for 1 Mbps [Left Earbud]

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm/3kHz)	LIMIT (dBm/3kHz)	MARGIN (dB)
Low	2 402.00	-15.08	8.00	23.08
Middle	2 440.00	-14.64	8.00	22.64
High	2 480.00	-13.64	8.00	21.64

Remark. Margin = Limit – Measured value

11.5 Test data for 2 Mbps [Left Earbud]

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm/3kHz)	LIMIT (dBm/3kHz)	MARGIN (dB)
Low	2 402.00	-18.53	8.00	26.53
Middle	2 440.00	-18.08	8.00	26.08
High	2 480.00	-16.97	8.00	24.97

Remark. Margin = Limit – Measured value

11.6 Test data for 1 Mbps [Right Earbud]

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm/3kHz)	LIMIT (dBm/3kHz)	MARGIN (dB)
Low	2 402.00	-20.42	8.00	28.42
Middle	2 440.00	-20.00	8.00	28.00
High	2 480.00	-20.06	8.00	28.06

Remark. Margin = Limit – Measured value

11.7 Test data for 2 Mbps [Right Earbud]

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm/3kHz)	LIMIT (dBm/3kHz)	MARGIN (dB)
Low	2 402.00	-23.90	8.00	31.90
Middle	2 440.00	-23.65	8.00	31.65
High	2 480.00	-23.35	8.00	31.35

Remark. Margin = Limit – Measured value

12. RADIATED EMISSION TEST

12.1 Operating environment

Temperature : 25 °C
Relative humidity : 45 % 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

November 14, 2025 ~ December 10, 2025

12.4 Test data for 30 MHz ~ 1 000 MHz [Left Earbud]

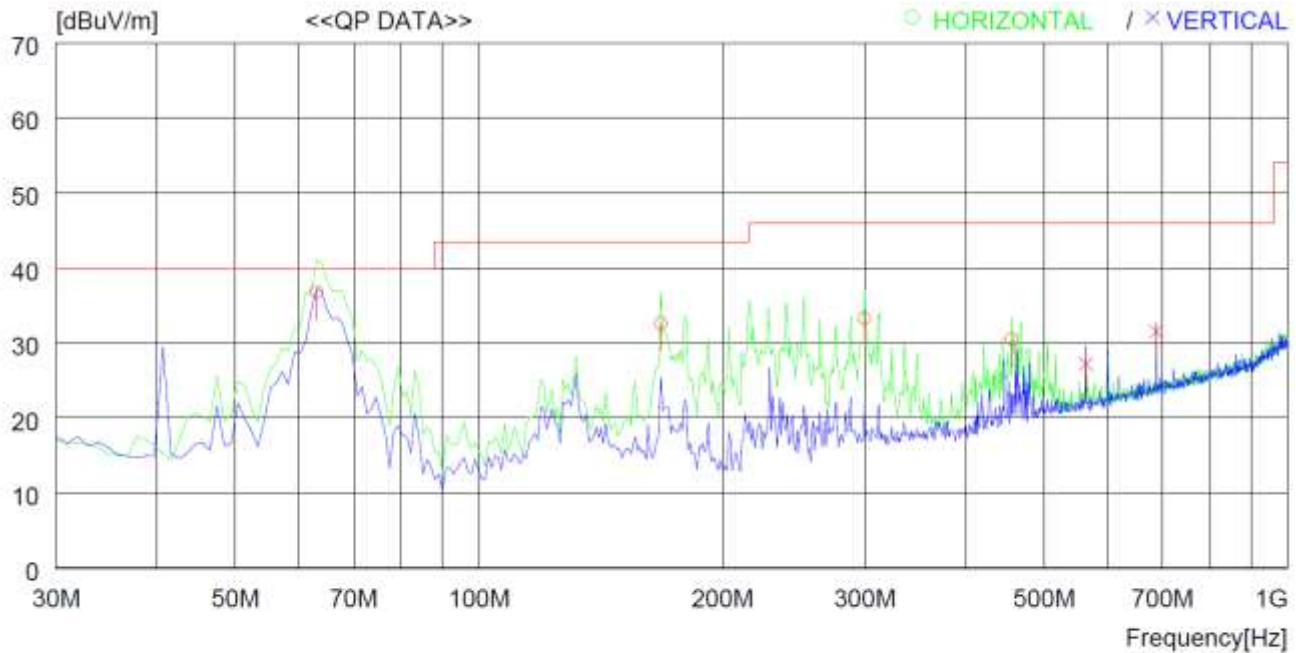
12.4.1 Test data for Bluetooth LE

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

Result : PASSED

EUT : BeCozU

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	62.980	55.2	12.5	1.1	32.0	36.8	40.0	3.2	400	0
2	167.740	45.3	17.4	1.9	32.0	32.6	43.5	10.9	200	0
3	299.660	43.4	19.4	2.5	32.0	33.3	46.0	12.7	100	359
4	455.831	37.5	22.1	3.1	32.2	30.5	46.0	15.5	200	0
----- Vertical -----										
5	562.529	32.2	23.8	3.5	32.3	27.2	46.0	18.8	100	0
6	687.655	34.4	25.4	4.0	32.3	31.5	46.0	14.5	200	358

12.5 Test data for Below 30 MHz [Left Earbud]

- 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 [Left Earbud]

- 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.									

12.7 Test data for 30 MHz ~ 1 000 MHz [Right Earbud]

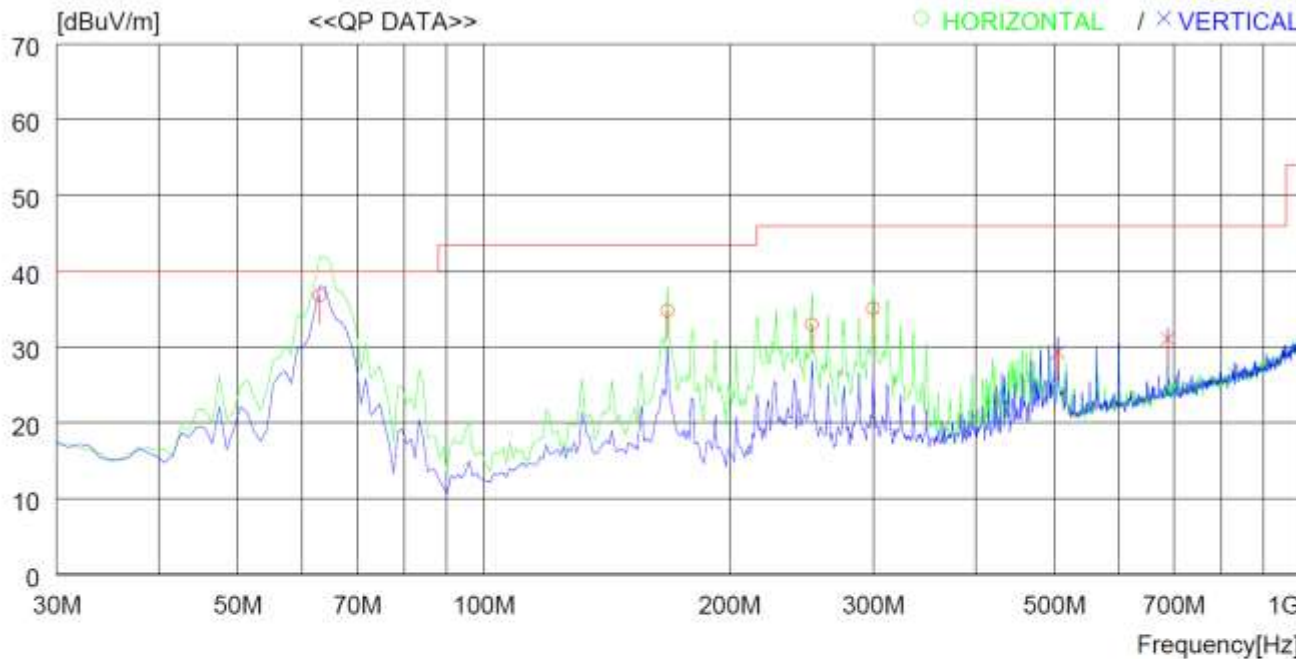
12.7.1 Test data for Bluetooth LE

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

Result : PASSED

EUT : BeCozU

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	62.980	55.2	12.5	1.1	32.0	36.8	40.0	3.2	300	214
2	167.740	47.5	17.4	1.9	32.0	34.8	43.5	8.7	200	359
3	252.130	44.8	17.9	2.3	32.0	33.0	46.0	13.0	100	169
4	299.660	45.2	19.4	2.5	32.0	35.1	46.0	10.9	100	0
----- Vertical -----										
5	504.331	35.2	23.2	3.2	32.3	29.3	46.0	16.7	100	359
6	687.655	34.0	25.4	4.0	32.3	31.1	46.0	14.9	100	249

12.8 Test data for Below 30 MHz [Right Earbud]

- . 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.									

12.9 Test data for above 1 GHz [Right Earbud]

- . 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. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV30	Rohde & Schwarz	Signal Analyzer	101757	Jul. 02, 2025 (1Y)
SMBV100A	Rohde & Schwarz	VECTOR SIGNAL GENERATOR	260423	Jan 14, 2025 (1Y)
SMB100A	Rohde & Schwarz	SiGNAL GENERATOR	177648	Jan 13, 2025 (1Y)
NRP33S	Rohde & Schwarz	3-Path Diode Power Sensor	103230	Jan 06, 2025 (1Y)
ESU	Rohde & Schwarz	EMI Test Receiver	100261	Mar. 05, 2025 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 16, 2025 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102209	Oct. 02, 2025 (1Y)
SCU40A	Rohde & Schwarz	Pre-Amplifier	100436	Jan. 15, 2025 (1Y)
DT2000-2t	Innco System	Turn Table	N/A	N/A
MA-4640-XPET	Innco System	Antenna Master	MA4640/652/43100318/P	N/A
CO3000	Innco System	Controller	1026/40960617/P	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	Mar. 09, 2024 (2Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jun. 19, 2025 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 04, 2025 (1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 13, 2025 (1Y)
8493C	HP	6 dB Attenuator	06134	Jul. 04, 2025 (1Y)