



Test Report

Date : 2026-03-25
No. : HMD26030011

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Applicant : Guangdong Winburg Technology Co., Ltd.
Building 2, No. 1, Yihui 5th Road, Henglan Town, Zhongshan City,
Guangdong Province, China

Supplier / Manufacturer : Guangdong Winburg Technology Co., Ltd.
Building 2, No. 1, Yihui 5th Road, Henglan Town, Zhongshan City,
Guangdong Province, China

Description of Sample(s) : Submitted sample(s) said to be
Product: Wireless Multi-function Baby Scale
Brand Name: N/A
Model No.: EB531
FCC ID: 2BU65-EB531

Date Samples Received : 2026-03-10

Date Tested : 2026-03-10 to 2026-03-17

Investigation Requested : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10: 2020 for FCC Certification.

Conclusions : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

Remarks : 2.4GHz wireless (GFSK)

Test by : Susu



Dr.CHAN Kwok Hung, Brian
Authorized Signatory



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1.0 General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Wireless Multi-function Baby Scale
Manufacturer: Guangdong Winburg Technology Co., Ltd.
Brand Name: Building 2, No. 1, Yihui 5th Road, Henglan Town, Zhongshan City,
Guangdong Province, China
Model Number: EB531
Rating: 3.0Vd.c.("AAA"size battery x2)

1.1.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Wireless Multi-function Baby Scale. It is a transceiver operating at 2405Hz~2475MHz and the RF signal was modulated by IC.

1.2 RF Module Details

Module Model Number: N/A
Module FCC ID: N/A
Modulation: GFSK
Frequency Range: 2420-2465MHz

1.3 Antenna Details

Antenna Type: PCB antenna
Antenna Gain: -2.777dBi

1.4 Date of Order

2026-03-10

1.5 Submitted Sample(s):

1 Sample

1.6 Test Duration

2026-03-10 to 2026-03-17

1.7 Country of Origin

China

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1.8 Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420		
2	2440		
3	2465		

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 Regulations and ANSI C63.10: 2020 for FCC Certification.
The device was realized with below steps.

Enter testing mode:

Press and hold the forward and right turn buttons, then turn on the power and the IC enters test mode;
After entering the testing mode, press the right turn button briefly to switch modes and frequencies.

Mode 1: Modulation wave mode, frequency 2.420 GHz

Mode 2: Modulation wave mode, frequency 2.440 GHz

Mode 3: Modulation wave mode, frequency 2.465 GHz

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2.2 Test Standards and Results Summary Tables

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10: 2020	N/A	☒	☐	☐
Radiated Emissions	FCC 47CFR 15.209 FCC 47CFR 15.205	ANSI C63.10: 2020	N/A	☒	☐	☐
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2020	N/A	☐	☐	☒
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	☒	☐	☐
20dB Emission bandwidth	FCC 47CFR 15.215(c)	ANSI C63.10: 2020	N/A	☒	☐	☐

Note: N/A - Not Applicable

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3.0 Test Results

3.1 Emission

3.1.1 Radiated Emissions

Ambient temperature 25°C

Relative humidity 57%

Test Requirement:	FCC 47CFR 15.249 & FCC 47CFR 15.209
Test Method:	ANSI C63.10:2020
Test Date:	2026-03-11 to 2026-03-12
Mode of Operation:	Tx mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

- * Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with
Registration Number: HK0001
Test Firm Registration Number: 367672

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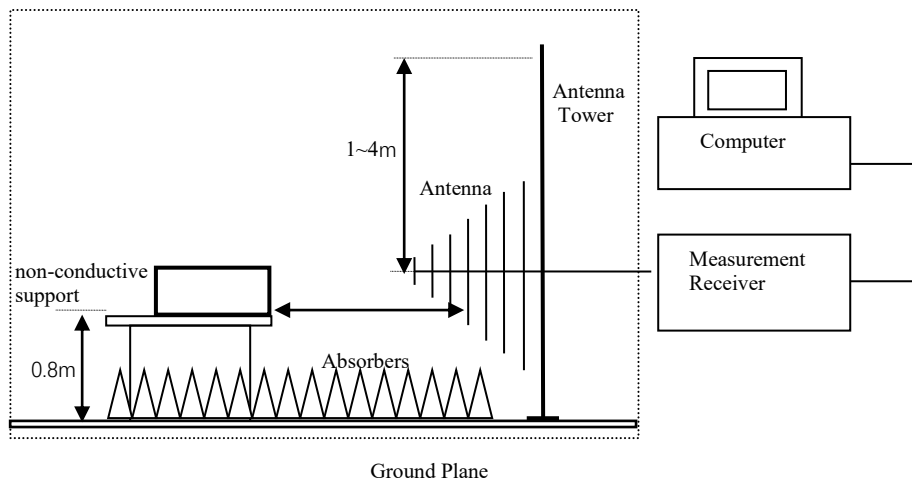
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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW:	10kHz
	VBW:	30kHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
30MHz – 1GHz (QP)	Trace:	Max. hold
	RBW:	120kHz
	VBW:	120kHz
	Sweep:	Auto
Above 1GHz (Pk & Av) (Other than Fundamental Emissions)	Span:	Fully capture the emissions being measured
	Trace:	Max. hold
	RBW:	1MHz
	VBW:	1MHz
	Sweep:	Auto
	Span:	Fully capture the emissions being measured
	Trace:	Max. hold

Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Quasi-Peak]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Calculated measurement uncertainty
(9kHz-30MHz): 2.0dB
(30MHz -1GHz): 4.9dB
(1GHz -6GHz): 4.02dB
(6GHz -26.5GHz): 4.03dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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Results of Tx mode (Lowest Frequency Channel-2420 MHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2420.00	95.0	-4.8	90.2	32,322.1	500,000	Vertical
2420.00	98.7	-4.7	94.0	50,118.7	500,000	Horizontal

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2420.00	87.5	-4.8	82.7	13,645.8	50,000	Vertical
2420.00	89.3	-4.7	84.6	16,982.4	50,000	Horizontal

Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
4840.0	55.6	0.8	56.4	660.7	5,000	Vertical
4840.0	55.2	0.5	55.7	609.5	5,000	Horizontal
7260.0	48.4	7.0	55.4	588.8	5,000	Vertical
7260.0	49.0	6.5	55.5	595.7	5,000	Horizontal
9680.0	46.8	8.5	55.3	582.1	5,000	Vertical
9680.0	47.5	8.3	55.8	616.6	5,000	Horizontal
12100.0	45	10.9	55.9	623.7	5,000	Vertical
12100.0	45.3	10.8	56.1	638.3	5,000	Horizontal

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Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4840.0	40.4	0.8	41.2	114.8	500	Vertical
4840.0	41.0	0.5	41.5	118.9	500	Horizontal
7260.0	34.4	7.0	41.4	117.5	500	Vertical
7260.0	35.6	6.5	42.1	127.4	500	Horizontal
9680.0	33.3	8.5	41.8	123.0	500	Vertical
9680.0	33.2	8.3	41.5	118.9	500	Horizontal
12100.0	30.4	10.9	41.3	116.1	500	Vertical
12100.0	30.7	10.8	41.5	118.9	500	Horizontal

Results of Tx mode (Middle Frequency Channel- 2440MHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2440.00	94.1	-4.8	89.3	29,174.3	500,000	Vertical
2440.00	97.8	-4.7	93.1	45,185.6	500,000	Horizontal

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2440.00	87.2	-4.8	82.4	13,182.6	50,000	Vertical
2440.00	90.3	-4.7	85.6	19,054.6	50,000	Horizontal

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Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4880.0	55.6	0.8	56.4	662.2	5,000	Vertical
4880.0	55.6	0.5	56.1	638.3	5,000	Horizontal
7320.0	48.6	7.0	55.6	602.6	5,000	Vertical
7320.0	49.3	6.5	55.8	616.6	5,000	Horizontal
9760.0	47.2	8.5	55.7	609.5	5,000	Vertical
9760.0	47.7	8.3	56.0	631.0	5,000	Horizontal
12200.0	45	10.9	55.9	623.7	5,000	Vertical
12200.0	44.9	10.8	55.7	609.5	5,000	Horizontal

Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
4880.0	41.0	0.8	41.8	123.3	500	Vertical
4880.0	41.2	0.5	41.7	121.6	500	Horizontal
7320.0	34.0	7.0	41.0	112.2	500	Vertical
7320.0	35.2	6.5	41.7	121.6	500	Horizontal
9760.0	33.0	8.5	41.5	118.9	500	Vertical
9760.0	33.0	8.3	41.3	116.1	500	Horizontal
12200.0	30.8	10.9	41.7	121.6	500	Vertical
12200.0	30.8	10.8	41.6	120.2	500	Horizontal

Results of Tx mode (Highest Frequency Channel – 2465MHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dBμV/m	Correction Factor dBμV/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
2465.00	96.5	-4.8	91.7	38,282.5	500,000	Vertical
2465.00	100.4	-4.7	95.7	60,813.5	500,000	Horizontal

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Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
2465.00	88.4	-4.8	83.6	15,066.1	50,000	Vertical
2465.00	92.5	-4.7	87.8	24,603.7	50,000	Horizontal

Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
4930.0	55.3	0.8	56.1	639.7	5,000	Vertical
4930.0	56.0	0.5	56.5	668.3	5,000	Horizontal
7395.0	49.1	7.0	56.1	638.3	5,000	Vertical
7395.0	49.8	6.5	56.3	653.1	5,000	Horizontal
9860.0	47.2	8.5	55.7	609.5	5,000	Vertical
9860.0	47.2	8.3	55.5	595.7	5,000	Horizontal
12325.0	45.3	10.9	56.2	645.7	5,000	Vertical
12325.0	45.3	10.8	56.1	638.3	5,000	Horizontal

Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB μ V/m	Correction Factor dB μ V/m	Field Strength dB μ V/m	Field Strength μ V/m	Limit @3m μ V/m	E-Field Polarity
4930.0	41.1	0.8	41.9	124.7	500	Vertical
4930.0	41.0	0.5	41.5	118.9	500	Horizontal
7395.0	34.6	7.0	41.6	120.2	500	Vertical
7395.0	35.0	6.5	41.5	118.9	500	Horizontal
9860.0	32.8	8.5	41.3	116.1	500	Vertical
9860.0	33.2	8.3	41.5	118.9	500	Horizontal
12325.0	30.0	10.9	40.9	110.9	500	Vertical
12325.0	30.3	10.8	41.1	113.5	500	Horizontal

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Radiated Emissions Measurement:

Limit :

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Result: RF Radiated Emissions (1GHz-26GHz) (Lowest)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2400.0	54.1	-4.8	49.3	74.0	24.7	Vertical
2400.0	54.1	-4.7	49.4	74.0	24.6	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2400.0	41.3	-4.8	36.5	54.0	17.5	Vertical
2400.0	41.5	-4.7	36.8	54.0	17.2	Horizontal

Result: RF Radiated Emissions (1GHz-26GHz) (Highest)

Field Strength of Band-edge Compliance						
Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2483.5	51.6	-4.8	46.8	74.0	27.2	Vertical
2483.5	53.0	-4.7	48.3	74.0	25.7	Horizontal

Field Strength of Band-edge Compliance						
Average Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Limit @3m dBμV/m	Margin dBμV/m	E-Field Polarity
2483.5	40.9	-4.8	36.1	54.0	17.9	Vertical
2483.5	42.1	-4.7	37.4	54.0	16.6	Horizontal

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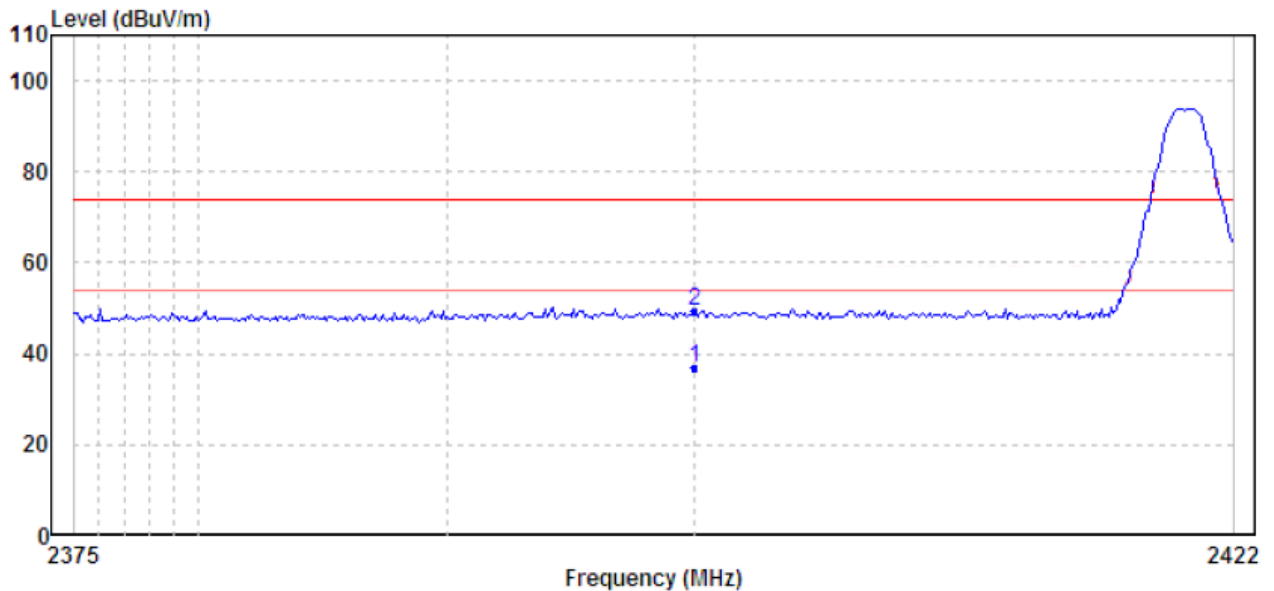
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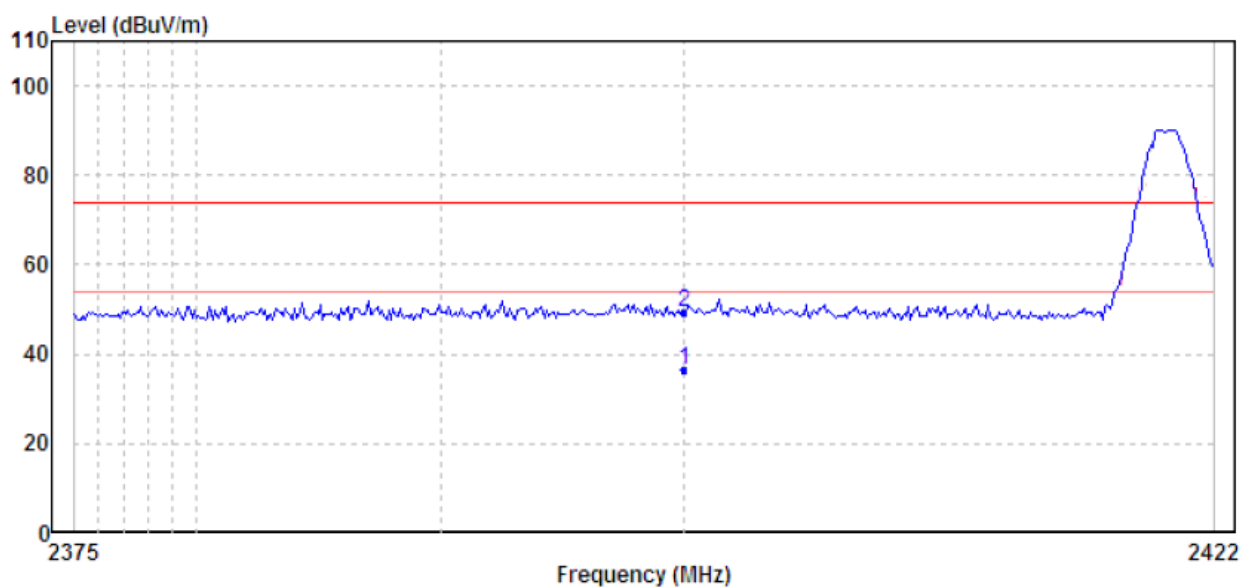
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Emissions radiated outside of the specified frequency bands (Lowest)

Horizontal



Vertical



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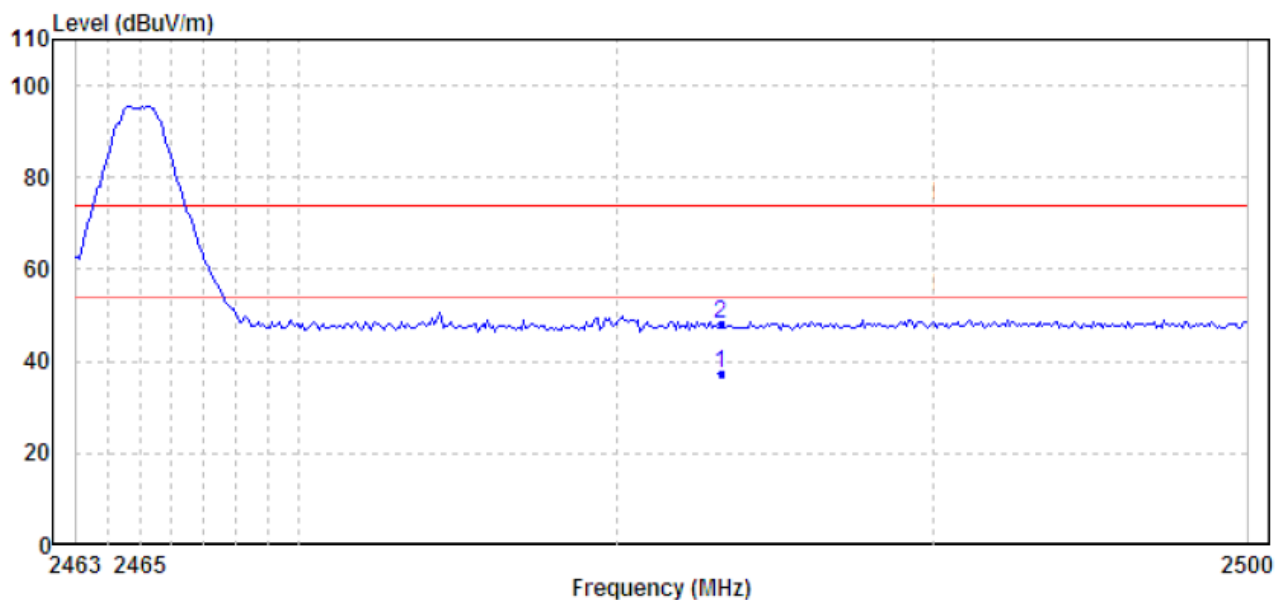
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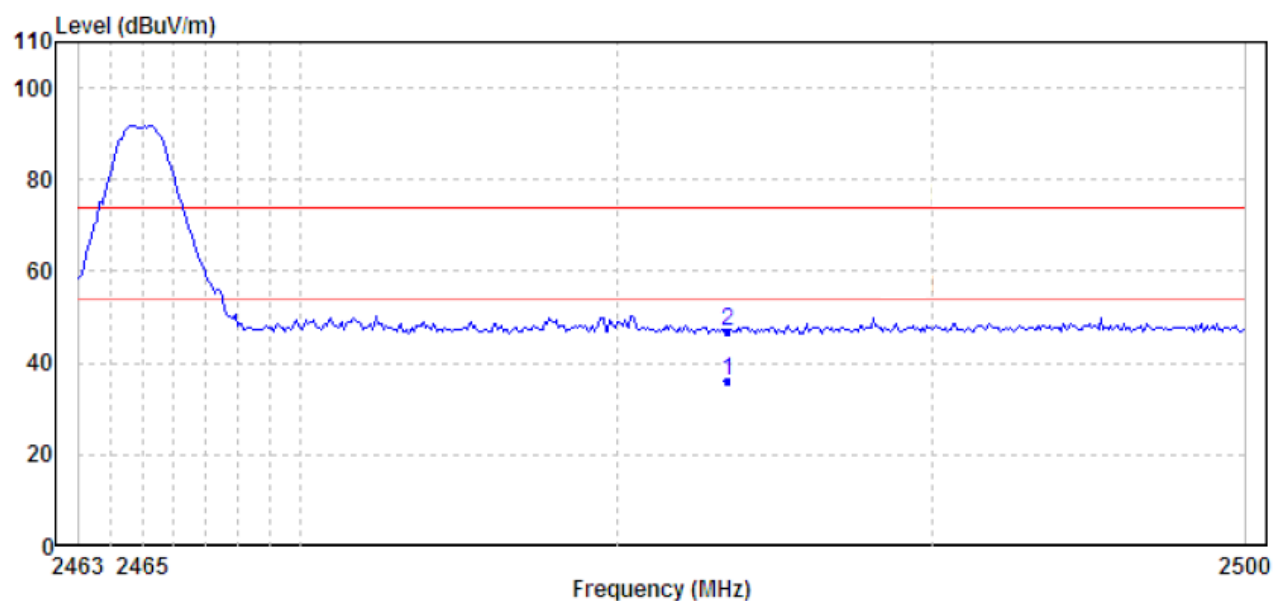
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Emissions radiated outside of the specified frequency bands (Highest)

Horizontal



Vertical



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Remarks:

Calculated measurement uncertainty (9kHz-30MHz): 2.0dB /(30MHz – 1GHz): 4.9dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

Results of TX mode (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

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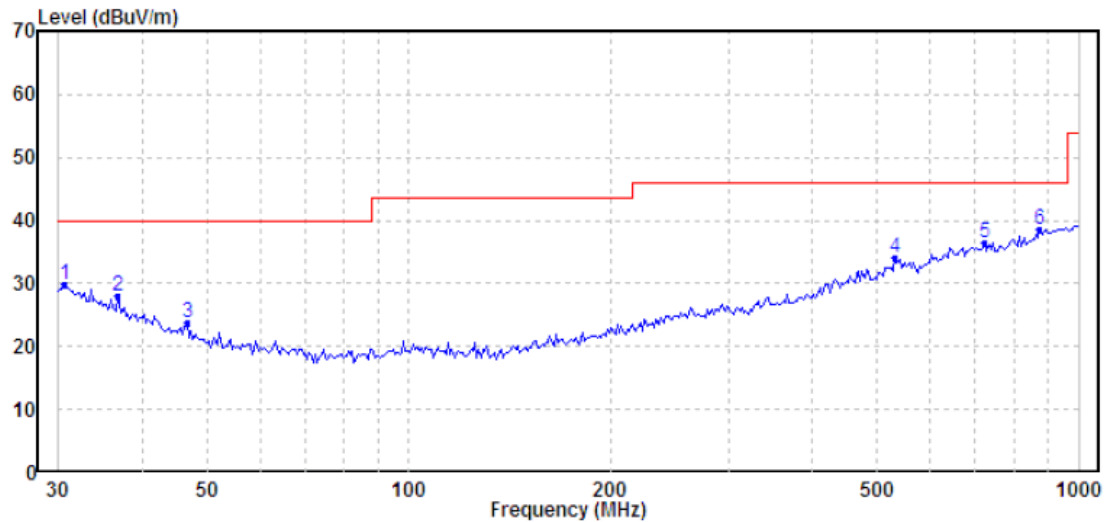
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Results of TX mode (30MHz – 1GHz)(2420MHz worst case): PASS

Horizontal



Ambient Temperature: 25.1 °C

Relative Humidity : 53.6%

Air Pressure : 100.9kPa

	Freq	Level	Limit	Over		
	MHz	dBuV/m	Line	Limit	Remark	Pol/Phase
			dBuV/m	dB		
1	31.289	29.16	40.00	-10.84	QP	Horizontal
2	85.898	19.81	40.00	-20.19	QP	Horizontal
3	187.096	22.15	43.50	-21.35	QP	Horizontal
4	239.147	24.23	46.00	-21.77	QP	Horizontal
5	465.599	30.63	46.00	-15.37	QP	Horizontal
6	547.098	32.55	46.00	-13.45	QP	Horizontal

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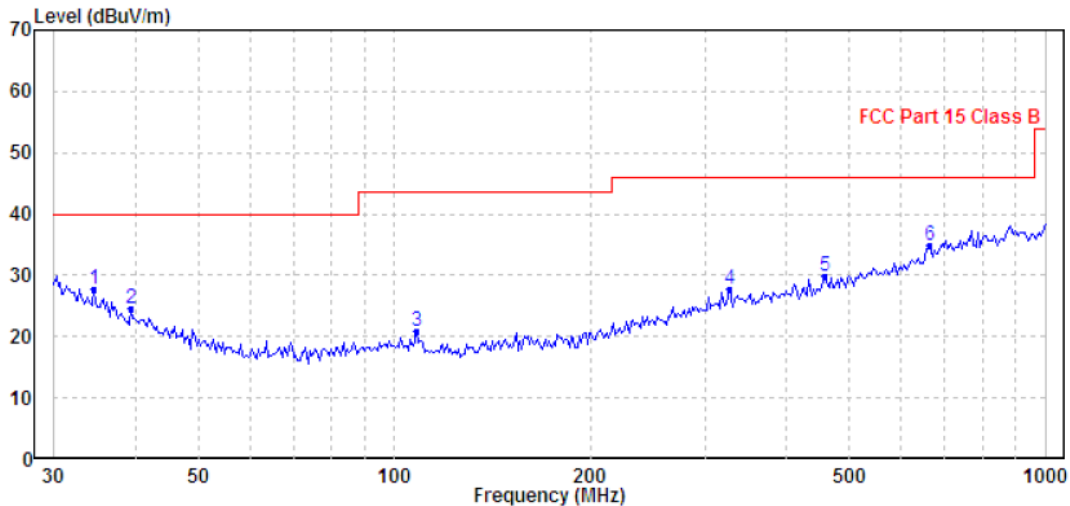
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Results of TX mode (30MHz – 1GHz) (2405MHz worst case): PASS

Vertical



Ambient Temperature: 25.1 °C
Relative Humidity : 53.6%
Air Pressure : 100.9kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit		
			dBuV/m	dB		
1	34.517	27.63	40.00	-12.37	QP	Vertical
2	39.437	24.49	40.00	-15.51	QP	Vertical
3	108.267	20.95	43.50	-22.55	QP	Vertical
4	327.887	27.62	46.00	-18.38	QP	Vertical
5	459.114	29.85	46.00	-16.15	QP	Vertical
6	665.804	34.82	46.00	-11.18	QP	Vertical

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3.1.2 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.10:2020
Test Date:	N/A
Mode of Operation:	TX mode
Test Voltage:	/

Ambient Temperature: 25°C Relative Humidity: 51% Atmospheric Pressure: 101 kPa

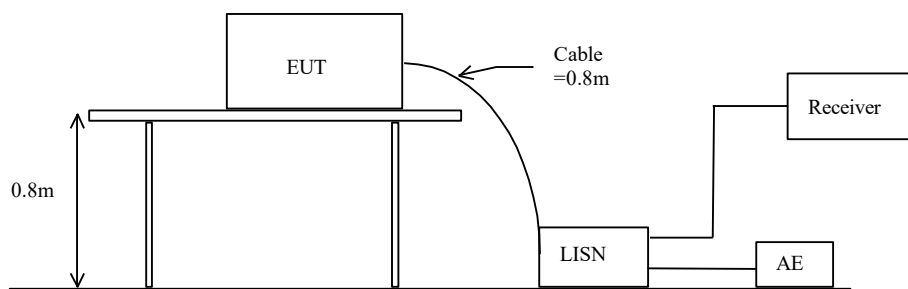
Test Method:

The test was performed in accordance with ANSI C63.10:2020, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Receiver Setting:

Bandw. = 9 kHz, Meas. Time= 10.0 ms, Step Width = 5.0kHz
 Detector = MaxPeak and CISPR AV

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.25dB

Results: N/A



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3.1.3 Antenna Requirement

Ambient temperature 25°C

Relative humidity 57%

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

This is PCB antenna. There is no external antenna, the antenna1 gain = -2.777dBi. User is unable to remove or changed the Antenna.

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3.1.4 20dB Bandwidth of Fundamental Emission

Ambient temperature 25°C

Relative humidity 57%

Test Requirement: FCC 47 CFR 15.249
Test Method: ANSI C63.10:2020
Test Date: 2026-03-16
Mode of Operation: Tx mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

The measurement bandwidth settings are RBW = 30 kHz
VBW = 100 kHz

Test Setup:

As Test Setup of clause 3.1.1 in this test report.



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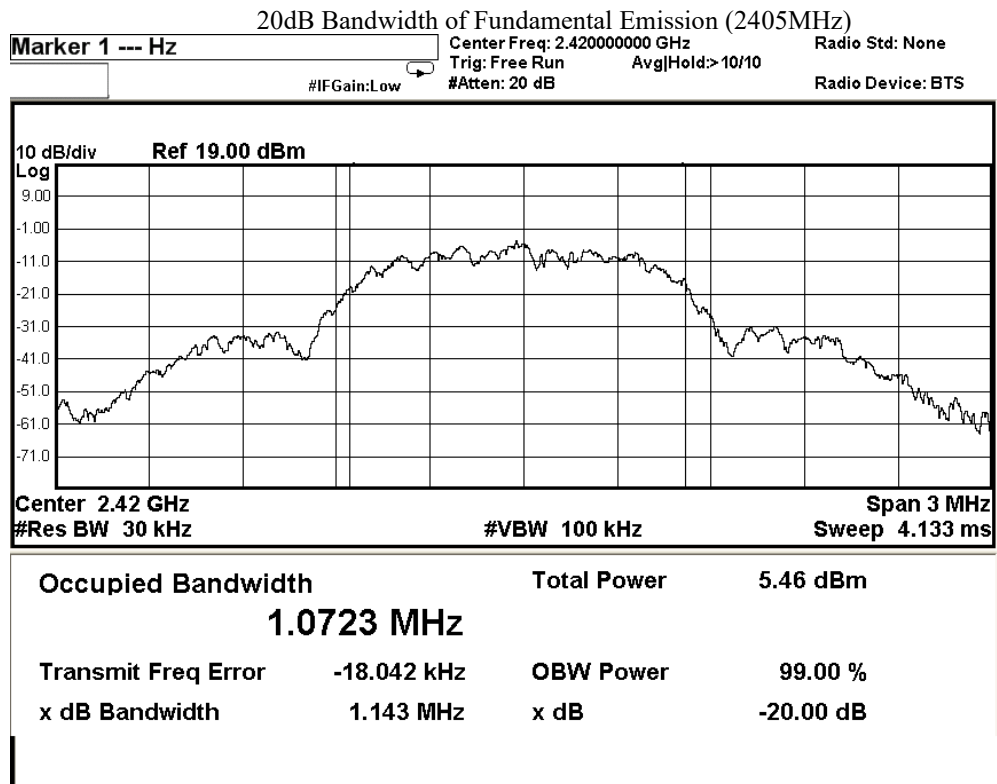
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Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

Ant 1

Frequency Range [MHz]	20dB Bandwidth [MHz]
2420.0	1.143



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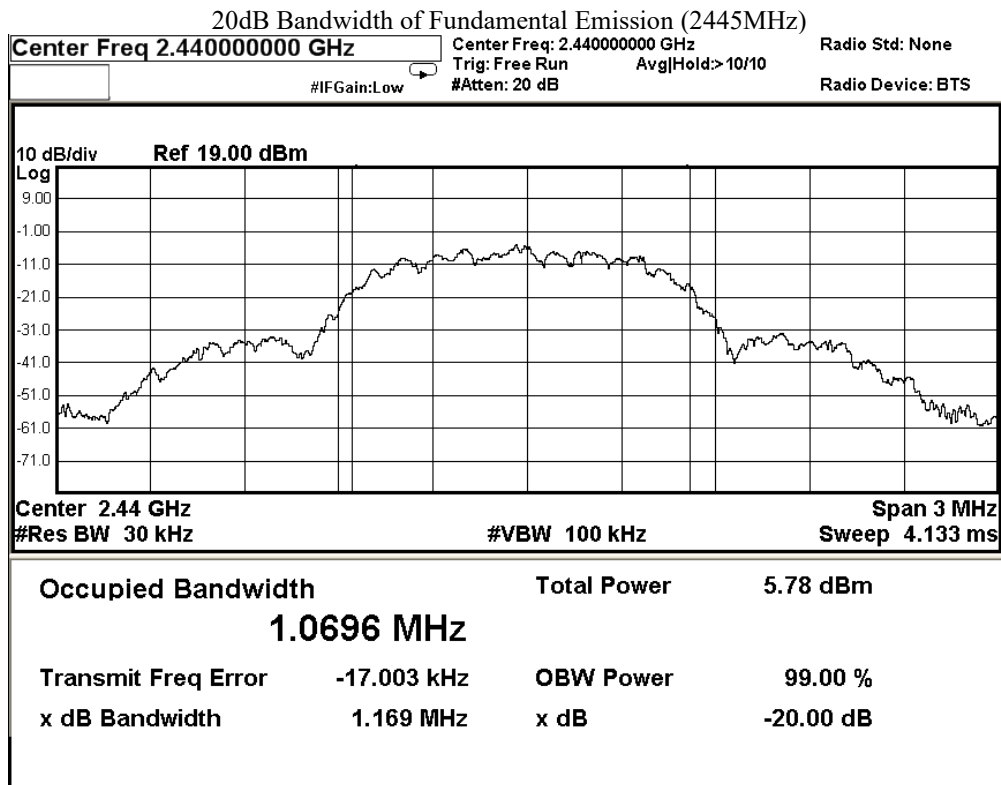
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Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2440.0	1.169



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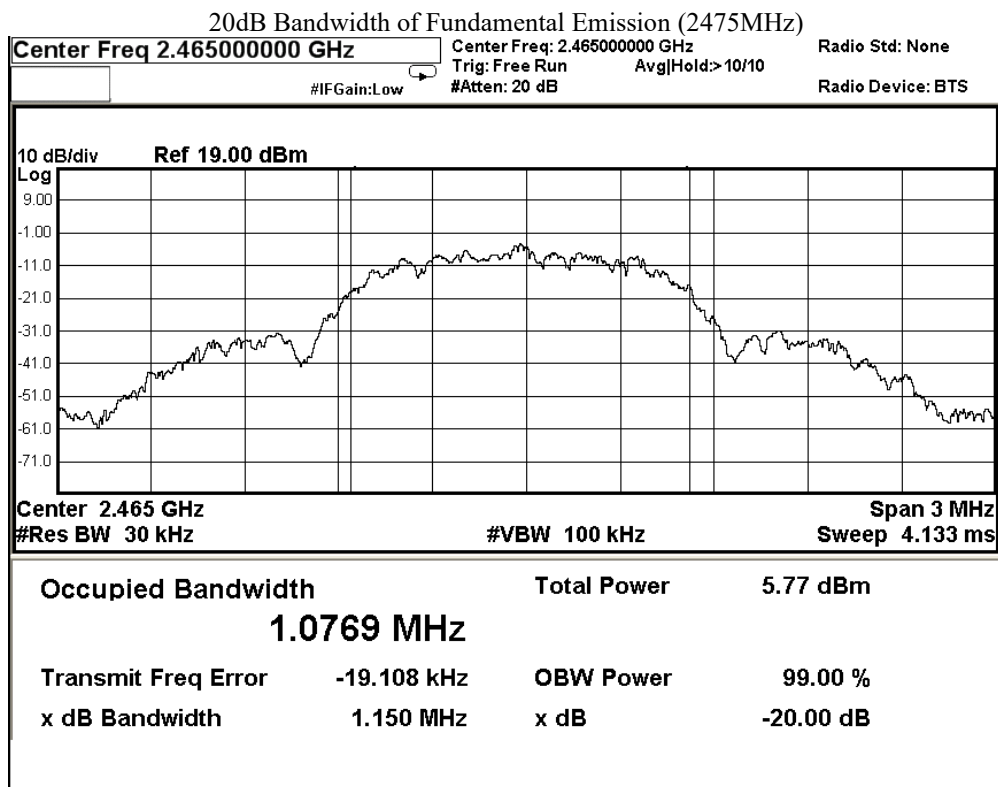
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Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2465.0	1.150



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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2024-04-18	2029-04-18
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM293	SPECTRUM ANALYZER	AGILENT TECHNOLOGIES	N9020A	MY50510152	2024-11-07	2026-11-07
EM363	SIGNAL ANALYZER(10HZ- 40GHZ)	R & S	FSV40	101231	2026-01-15	2028-01-15
EM299	BROADBAND HORN ANTENNA	ETS-LINDGREN	3115	00114120	2025-07-08	2028-07-08
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2025-07-14	2027-07-14
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2025-07-14	2027-07-14
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2025-02-12	2027-02-12
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00094856	2025-01-02	2027-01-02
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2023-08-02	2026-08-02

Remarks:-

N/A Not Applicable or Not Available

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Appendix B

Photographs of EUT

View of the product



View of the product



View of the product



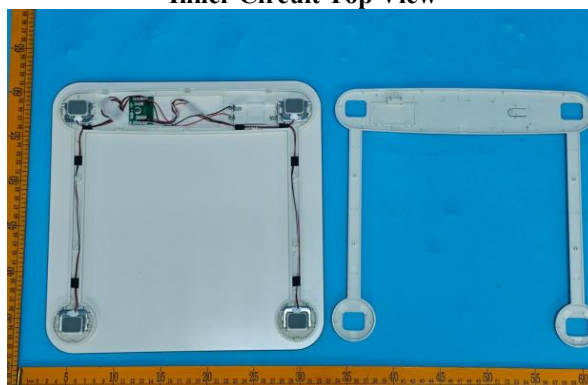
View of the product



Inside View of the product



Inner Circuit Top View



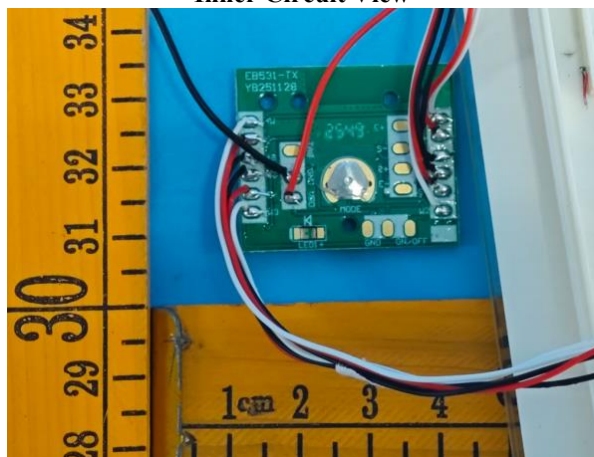
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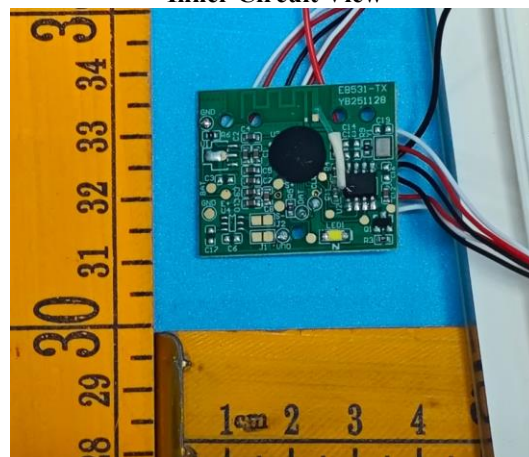
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Photographs of EUT

Inner Circuit View



Inner Circuit View



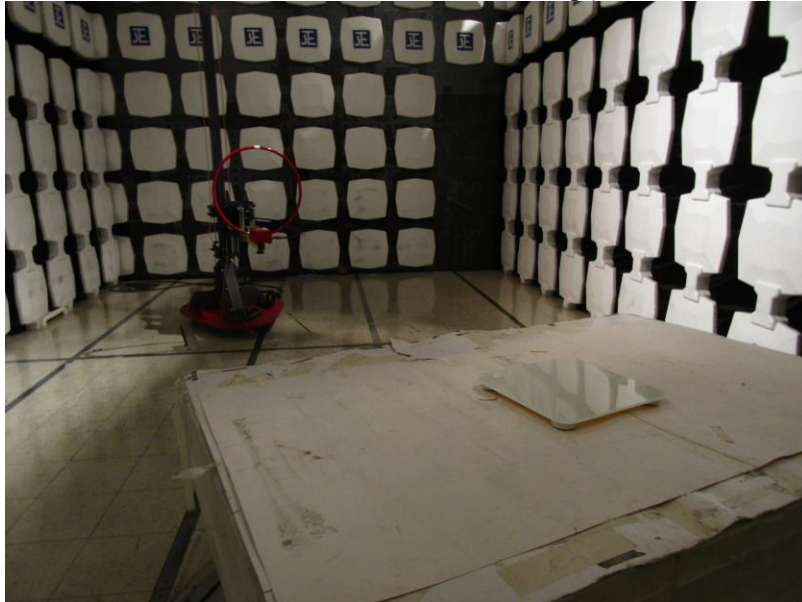
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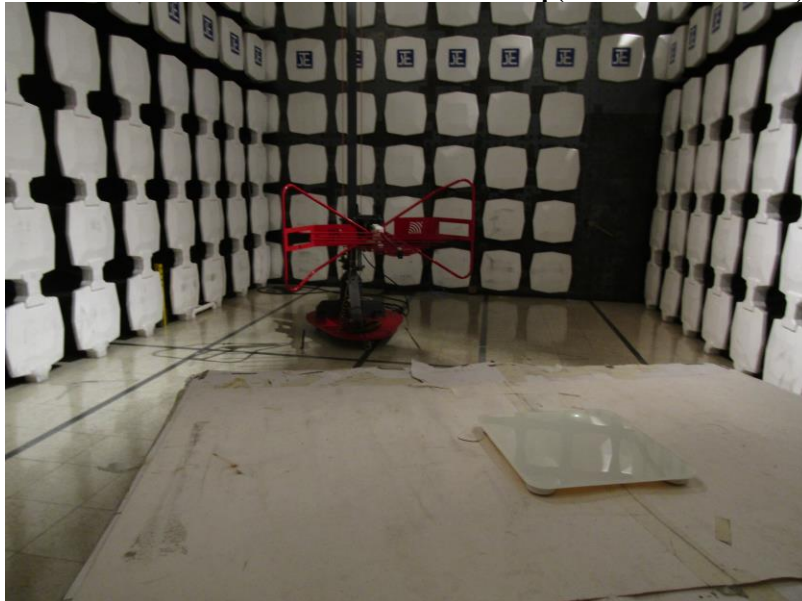
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Photographs of EUT

Measurement of Radiated Emission Test Set Up(9kHz – 30MHz)



Measurement of Radiated Emission Test Set Up(30MHz to 1000MHz)



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Photographs of EUT

Measurement of Radiated Emission Test Set Up(Above 1000MHz)



******* End of Test Report *******

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