



## Test Report

Date : 2024-12-13  
No. : HMD24100004

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**Applicant** : Ocean Star Electronics Ltd.  
Unit 2, 16/F, Fo Tan Industrial Centre, No. 26-28 Au Pui Wan Street,  
Fo Tan, Hong Kong

**Supplier / Manufacturer** : Ocean Star Electronics Ltd.  
Unit 2, 16/F, Fo Tan Industrial Centre, No. 26-28 Au Pui Wan Street,  
Fo Tan, Hong Kong

**Description of Sample(s)** : Submitted sample(s) said to be  
Product: Wireless Speaker System /  
Drahtlose Lautsprechersystem  
Brand Name: My own sound  
Model No.: Ella MEA100  
FCC ID: LMZ-ELLAMEA100

**Date Samples Received** : 2024-10-09

**Date Tested** : 2024-10-09 to 2024-10-16

**Investigation Requested** : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.10: 2013 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

The Hong Kong Standards and Testing Centre Limited

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### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.  
EMC Laboratory  
10 Dai Wang Street, Taipo Industrial Estate, New Territories, Hong Kong  
Telephone: 852 2666 1888  
Fax: 852 2664 4353

#### **1.2 Equipment Under Test [EUT]**

##### **Description of Sample(s)**

Product: Wireless Speaker System /  
Drahtlose Lautsprechersystem  
Manufacturer: Ocean Star Electronics Ltd.  
Unit 2, 16/F, Fo Tan Industrial Centre, No. 26-28 Au Pui Wan Street, Fo  
Tan, Hong Kong  
Brand Name: My own sound  
Model Number: Ella MEA100  
Rating: Input:DC5V 1A by type C port  
Battery: DC 3.7V 2500mAh 9.25Wh

#### **1.3 Description of EUT Operation**

The Equipment Under Test (EUT) is a Wireless Speaker System / Drahtlose Lautsprechersystem. It is a transceiver operating at 2402 MHz~2480MHz and the RF signal was modulated by IC.

RF modulation: GFSK  
Antenna gain:1.7dBi  
Antenne type: PCB antenna

#### **1.4 Date of Order**

2024-10-09

#### **1.5 Submitted Sample(s):**

1 Sample

#### **1.6 Test Duration**

2024-10-09 to 2024-10-16

#### **1.7 Country of Origin**

China

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### 1.8 Frequency list

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	42	2444
1	2403	43	2445
2	2404	44	2446
3	2405	45	2447
4	2406	46	2448
5	2407	47	2449
6	2408	48	2450
7	2409	...	...
8	2410	67	2469
9	2411	68	2470
...	...	69	2471
33	2435	70	2472
34	2436	71	2473
35	2437	72	2474
36	2438	73	2475
37	2439	74	2476
38	2440	75	2477
39	2441	76	2478
40	2442	77	2479
41	2443	78	2480

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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: 2013 for FCC Certification.

#### **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: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Antenna requirement	FCC 47CFR 15.203	N/A	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20dB Emission bandwidth	FCC 47CFR 15.215(c)	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 C63.10:2013
Test Date:	2024-10-10
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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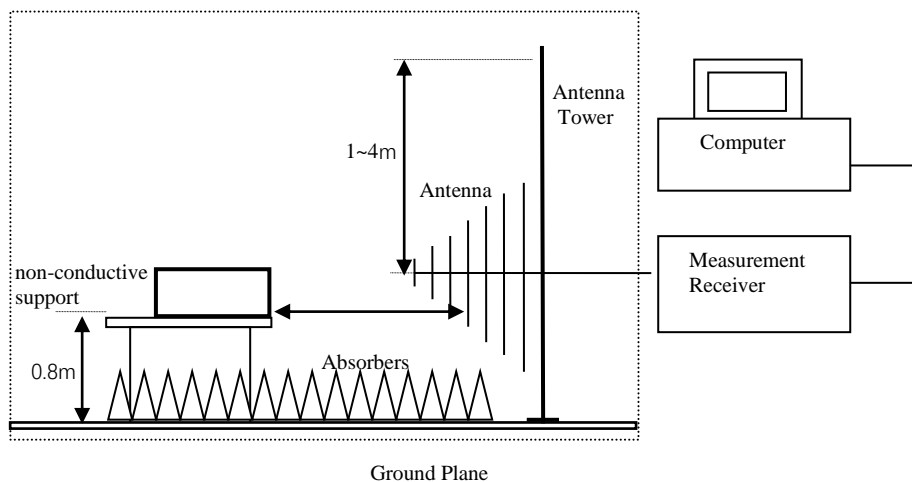
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### Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: 10kHz VBW: 30kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
30MHz – 1GHz (QP)	RBW: 120kHz VBW: 120kHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
Above 1GHz (Pk)	RBW: 1MHz VBW: 1MHz Sweep: Auto Span: Fully capture the emissions being measured Trace: Max. hold
Above 1GHz (Av)	RBW: 1MHz VBW: 10Hz 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-2402 MHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2402.00	97.4	-4.8	92.6	42,658.0	500,000	Vertical
2402.00	87.6	-4.7	82.9	13,963.7	500,000	Horizontal

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2402.00	83.4	-4.8	78.6	8,511.4	50,000	Vertical
2402.00	73.1	-4.7	68.4	2,630.3	50,000	Horizontal

Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4804.0	56.9	0.8	57.7	769.1	5,000	Vertical
4804.0	56.8	0.5	57.3	732.8	5,000	Horizontal
7206.0	49.2	7.0	56.2	645.7	5,000	Vertical
7206.0	49.7	6.5	56.2	645.7	5,000	Horizontal
9608.0	46.8	8.5	55.3	582.1	5,000	Vertical
9608.0	47.8	8.3	56.1	638.3	5,000	Horizontal
12010.0	44.6	10.9	55.5	595.7	5,000	Vertical
12065.0	44.9	10.8	55.7	609.5	5,000	Horizontal

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Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4804.0	41.6	0.8	42.4	132.1	500	Vertical
4804.0	41.8	0.5	42.3	130.3	500	Horizontal
7206.0	35.0	7.0	42.0	125.9	500	Vertical
7206.0	35.2	6.5	41.7	121.6	500	Horizontal
9608.0	33.6	8.5	42.1	127.4	500	Vertical
9608.0	33.7	8.3	42.0	125.9	500	Horizontal
12010.0	30.9	10.9	41.8	123.0	500	Vertical
12065.0	30.6	10.8	41.4	117.5	500	Horizontal

### Results of Tx mode (Middle Frequency Channel- 2441MHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2441.00	95.7	-4.8	90.9	35,075.2	500,000	Vertical
2441.00	84.8	-4.7	80.1	10,115.8	500,000	Horizontal

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2441.00	81.9	-4.8	77.1	7,161.4	50,000	Vertical
2441.00	71.5	-4.7	66.8	2,187.8	50,000	Horizontal

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Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4882.0	56.0	0.8	56.8	693.4	5,000	Vertical
4882.0	56.2	0.5	56.7	683.9	5,000	Horizontal
7323.0	48.7	7.0	55.7	609.5	5,000	Vertical
7323.0	49.3	6.5	55.8	616.6	5,000	Horizontal
9764.0	46.7	8.5	55.2	575.4	5,000	Vertical
9764.0	47.4	8.3	55.7	609.5	5,000	Horizontal
12205.0	45.0	10.9	55.9	623.7	5,000	Vertical
12205.0	45.2	10.8	56.0	631.0	5,000	Horizontal

Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4882.0	41.0	0.8	41.8	123.3	500	Vertical
4882.0	41.1	0.5	41.6	120.2	500	Horizontal
7323.0	35.0	7.0	42.0	125.9	500	Vertical
7323.0	35.1	6.5	41.6	120.2	500	Horizontal
9764.0	33.0	8.5	41.5	118.9	500	Vertical
9764.0	33.1	8.3	41.4	117.5	500	Horizontal
12205.0	31.3	10.9	42.2	128.8	500	Vertical
12205.0	30.9	10.8	41.7	121.6	500	Horizontal

### Results of Tx mode (Highest Frequency Channel – 2480MHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2480.00	93.3	-4.8	88.5	26,454.5	500,000	Vertical
2480.00	92.4	-4.7	78.9	8,851.2	500,000	Horizontal

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Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2480.00	80.0	-4.8	75.2	5,754.4	50,000	Vertical
2480.00	70.5	-4.7	65.8	1,949.8	50,000	Horizontal

Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4960.0	55.6	0.8	56.4	662.2	5,000	Vertical
4960.0	55.2	0.5	55.7	609.5	5,000	Horizontal
7440.0	48.6	7.0	55.6	602.6	5,000	Vertical
7440.0	48.8	6.5	55.3	582.1	5,000	Horizontal
9920.0	46.6	8.5	55.1	568.9	5,000	Vertical
9920.0	47.4	8.3	55.7	609.5	5,000	Horizontal
12400.0	45.1	10.9	56.0	631.0	5,000	Vertical
12400.0	45.0	10.8	55.8	616.6	5,000	Horizontal

Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4960.0	41.0	0.8	41.8	123.3	500	Vertical
4960.0	41.1	0.5	41.6	120.2	500	Horizontal
7440.0	34.0	7.0	41.0	112.2	500	Vertical
7440.0	34.3	6.5	40.8	109.6	500	Horizontal
9920.0	33.0	8.5	41.5	118.9	500	Vertical
9920.0	32.8	8.3	41.1	113.5	500	Horizontal
12400.0	30.6	10.9	41.5	118.9	500	Vertical
12400.0	30.5	10.8	41.3	116.1	500	Horizontal

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### Radiated Emissions Measurement:

#### Limit :

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).

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

Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2400.0	62.6	-4.8	57.8	74.0	16.2	Vertical
2400.0	54.2	-4.7	49.5	74.0	24.5	Horizontal

Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2400.0	51.7	-4.8	46.9	54.0	7.1	Vertical
2400.0	44.8	-4.7	40.1	54.0	13.9	Horizontal

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

Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2483.5	52.3	-4.8	47.5	74.0	26.5	Vertical
2483.5	52.3	-4.7	47.6	74.0	26.4	Horizontal

Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2483.5	44.8	-4.8	38.1	54.0	15.9	Vertical
2483.5	42.7	-4.7	38.0	54.0	16.0	Horizontal

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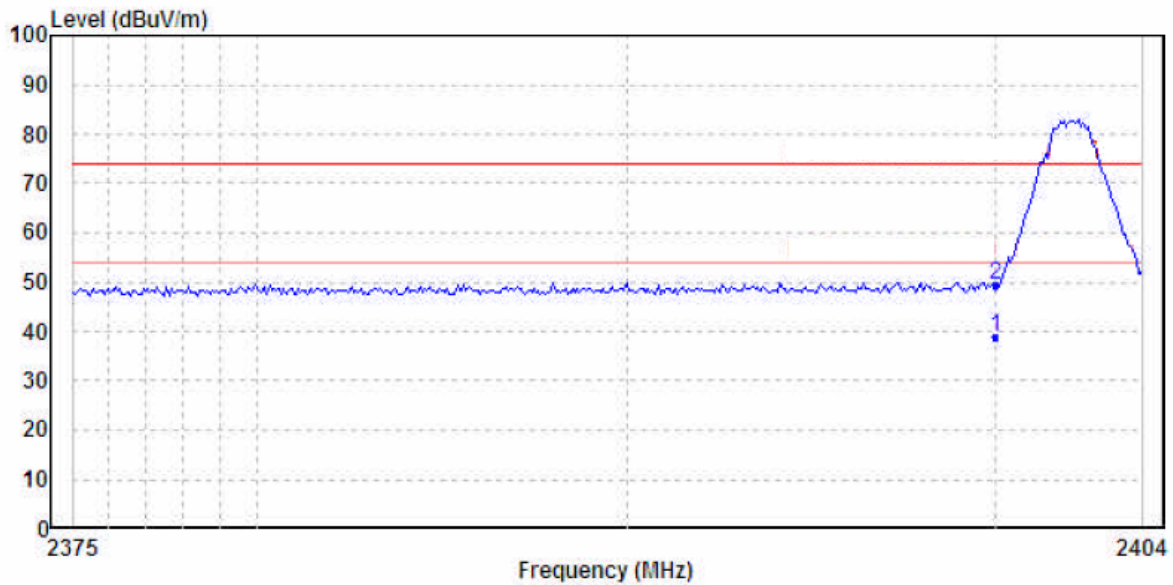
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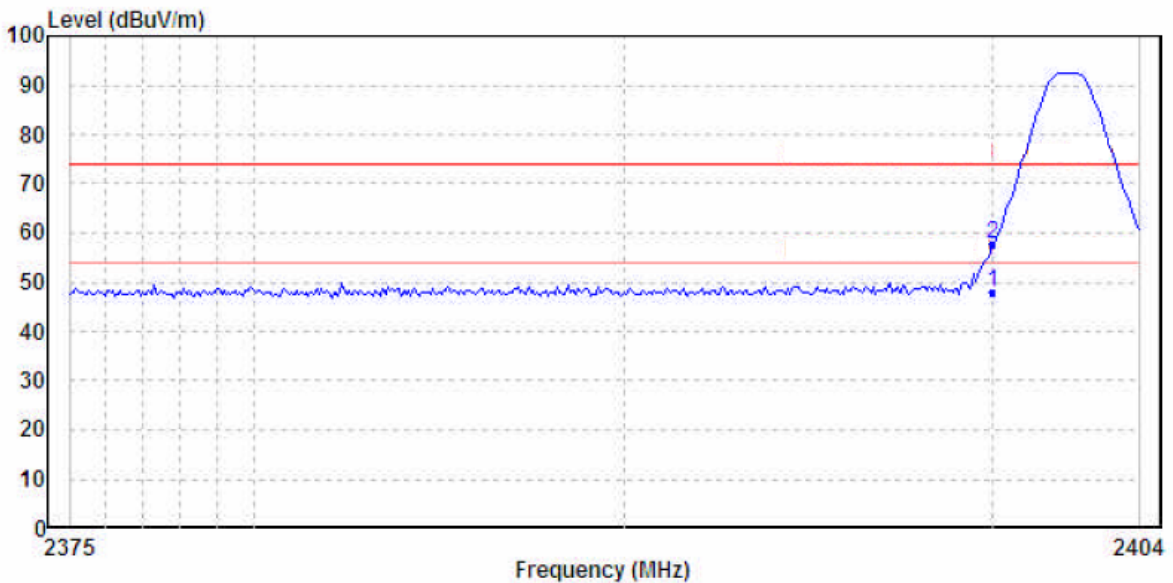
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### Emissions radiated outside of the specified frequency bands (Lowest)

Horizontal



Vertical



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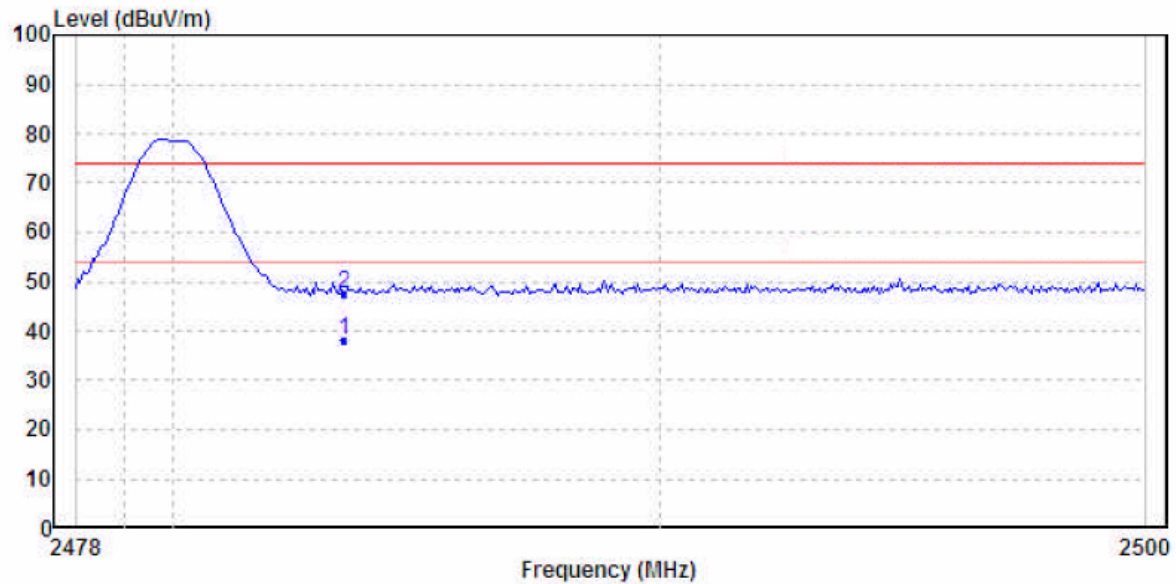
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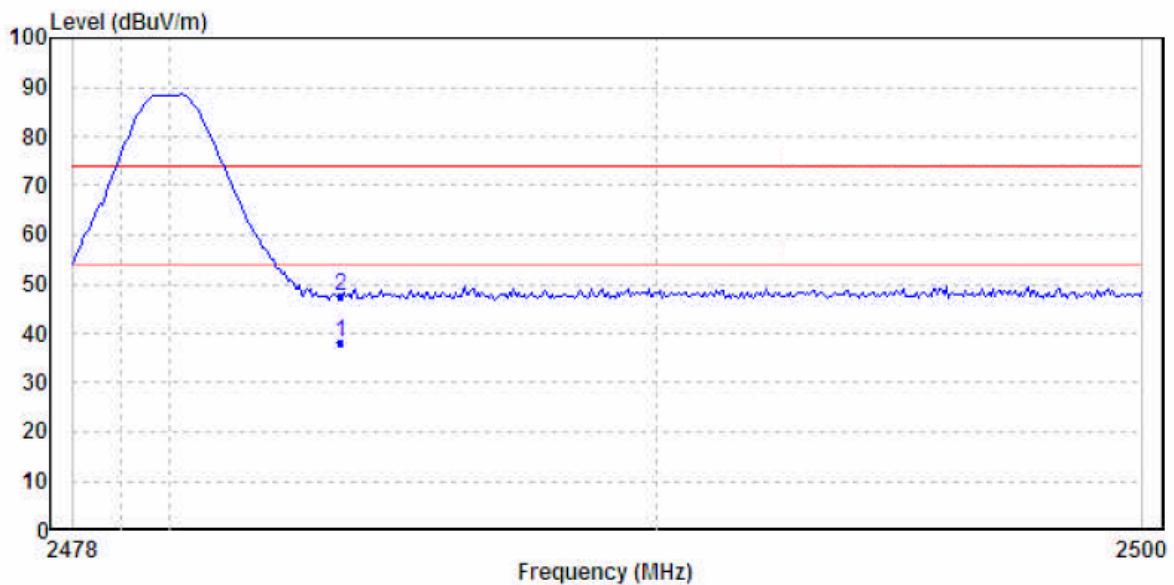
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### Emissions radiated outside of the specified frequency bands (Highest)

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, not reported.

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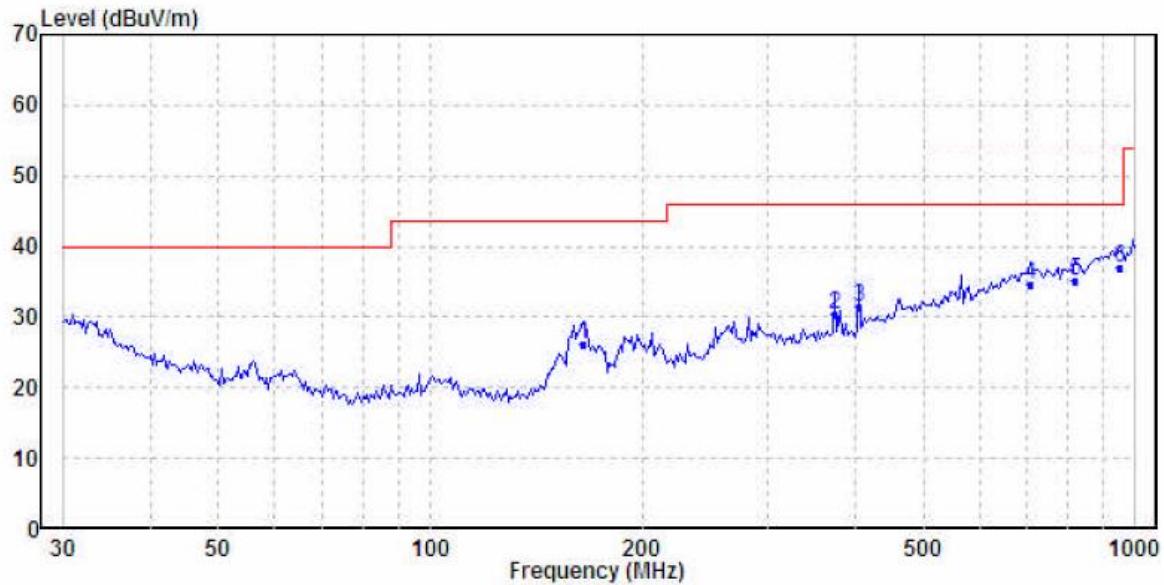
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Results of TX mode (30MHz – 1GHz)(2413MHz worst case): PASS

Horizontal



Ambient Temperature: 26.7C  
Relative Humidity : 53.8%  
Air Pressure : 100.9kPa

	Freq	Level	Limit	Over		
	MHz	dBuV/m	Line	Limit	Remark	Pol/Phase
1	164.908	26.26	43.50	-17.24	QP	Horizontal
2	374.623	30.42	46.00	-15.58	QP	Horizontal
3	404.667	31.38	46.00	-14.62	QP	Horizontal
4	709.182	34.70	46.00	-11.30	QP	Horizontal
5	821.710	35.15	46.00	-10.85	QP	Horizontal
6	952.094	37.04	46.00	-8.96	QP	Horizontal

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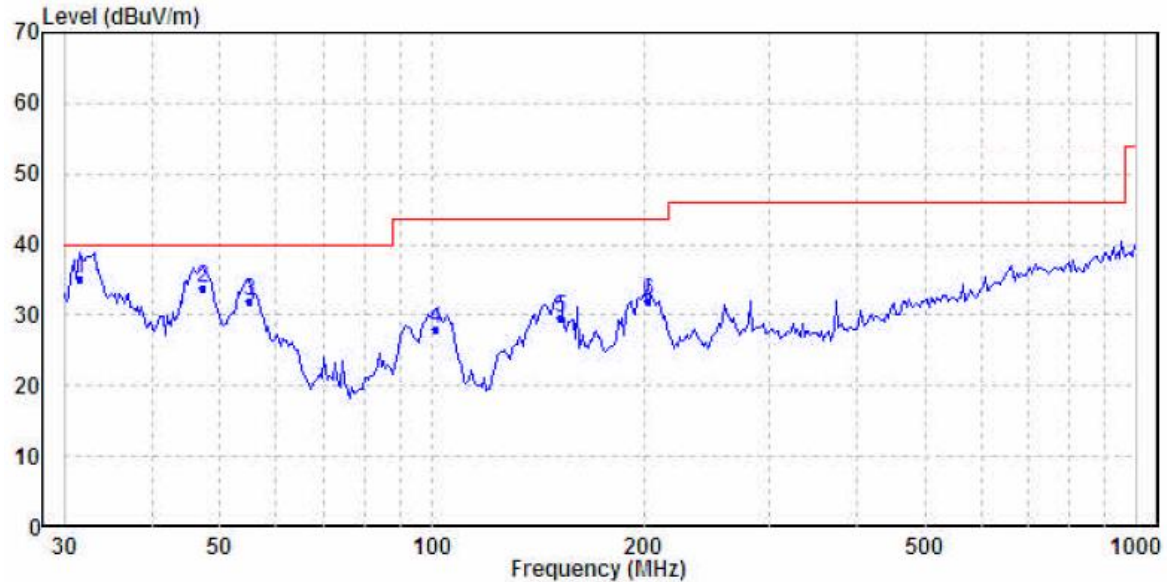
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Results of TX mode (30MHz – 1GHz) (2413MHz worst case): PASS

Vertical



Ambient Temperature: 26.7C  
Relative Humidity : 53.8%  
Air Pressure : 100.9kPa

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	31.510	35.17	40.00	-4.83	QP	Vertical
2	47.326	33.78	40.00	-6.22	QP	Vertical
3	54.835	31.86	40.00	-8.14	QP	Vertical
4	100.934	27.93	43.50	-15.57	QP	Vertical
5	151.597	29.68	43.50	-13.82	QP	Vertical
6	202.100	31.90	43.50	-11.60	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 C63.10:2013
Test Date:	2024-09-30
Mode of Operation:	Charging mode
Test Voltage:	120V a.c. 60Hz

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

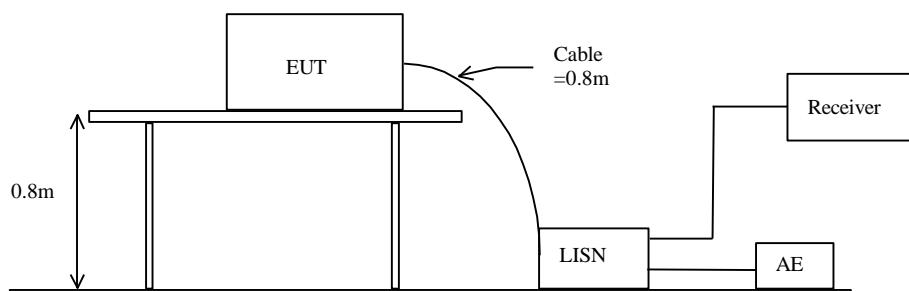
#### Test Method:

The test was performed in accordance with ANSI C63.10:2013, 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

-\*- Emission(s) that is far below the corresponding limit line.

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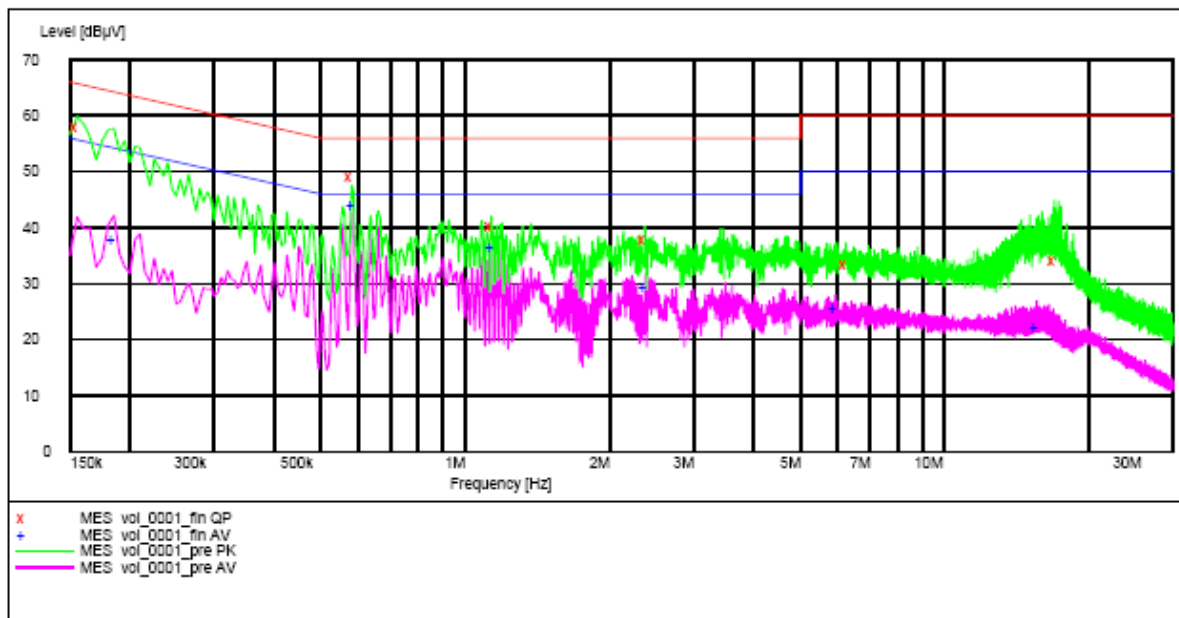
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### Results of Bluetooth mode (L): PASS

Please refer to the following diagram for individual results.



#### MEASUREMENT RESULT: "vol\_0001\_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.155000	57.8	9.7	65.7	7.9	L1	GND
0.580000	49.1	9.7	56.0	6.9	L1	GND
1.135000	40.2	9.7	56.0	15.8	L1	GND
2.375000	37.8	9.8	56.0	18.2	L1	GND
6.240000	33.4	9.9	60.0	26.6	L1	GND
16.970000	33.9	10.3	60.0	26.1	L1	GND

#### MEASUREMENT RESULT: "vol\_0001\_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.185000	37.9	9.7	54.3	16.4	L1	GND
0.585000	43.0	9.7	46.0	3.0	L1	GND
1.140000	36.3	9.7	46.0	9.7	L1	GND
2.380000	29.3	9.8	46.0	16.7	L1	GND
5.915000	25.6	9.9	50.0	24.4	L1	GND
15.590000	22.3	10.2	50.0	27.7	L1	GND

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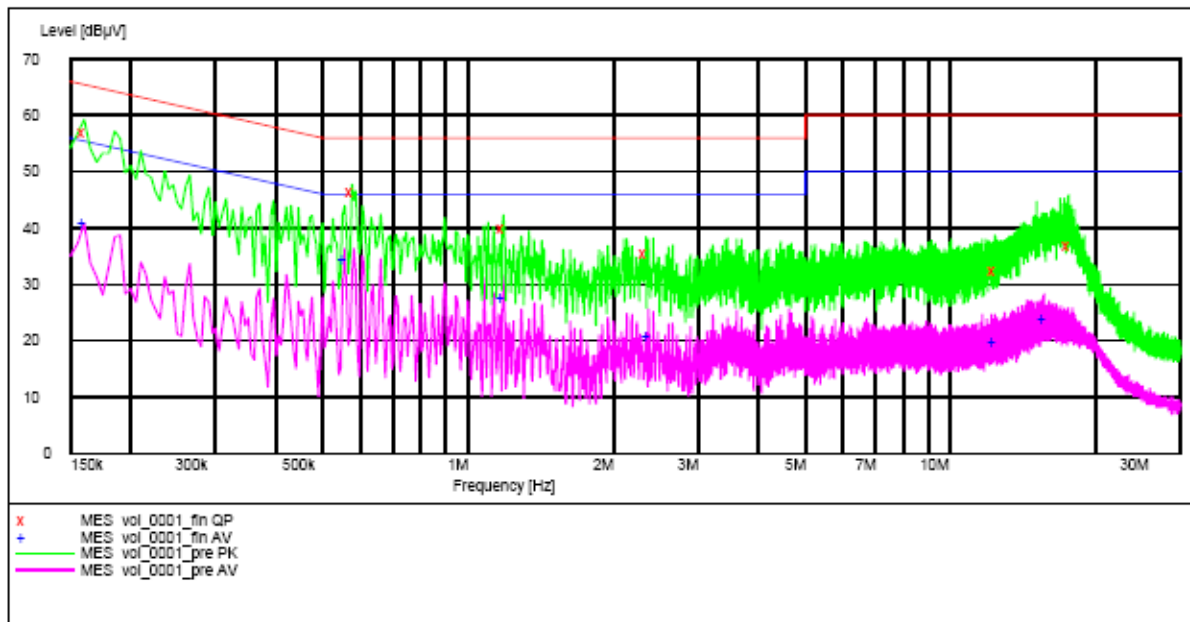
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### Results of Bluetooth mode (N): PASS

Please refer to the following diagram for individual results.



#### MEASUREMENT RESULT: "vol\_0001\_fin QP"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.160000	57.0	9.7	65.5	8.5	N	GND
0.575000	46.2	9.7	56.0	9.8	N	GND
1.185000	40.0	9.7	56.0	16.0	N	GND
2.340000	35.5	9.8	56.0	20.5	N	GND
12.380000	32.5	10.1	60.0	27.5	N	GND
17.600000	36.7	10.3	60.0	23.3	N	GND

#### MEASUREMENT RESULT: "vol\_0001\_fin AV"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.160000	40.7	9.7	55.5	14.8	N	GND
0.555000	34.3	9.7	46.0	11.7	N	GND
1.185000	27.5	9.7	46.0	18.5	N	GND
2.370000	20.9	9.8	46.0	25.1	N	GND
12.370000	19.8	10.1	50.0	30.2	N	GND
15.685000	23.8	10.2	50.0	26.2	N	GND

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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 antenna gain =1.7dBi. 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 C63.10:2013  
Test Date: 2024-10-09  
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.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

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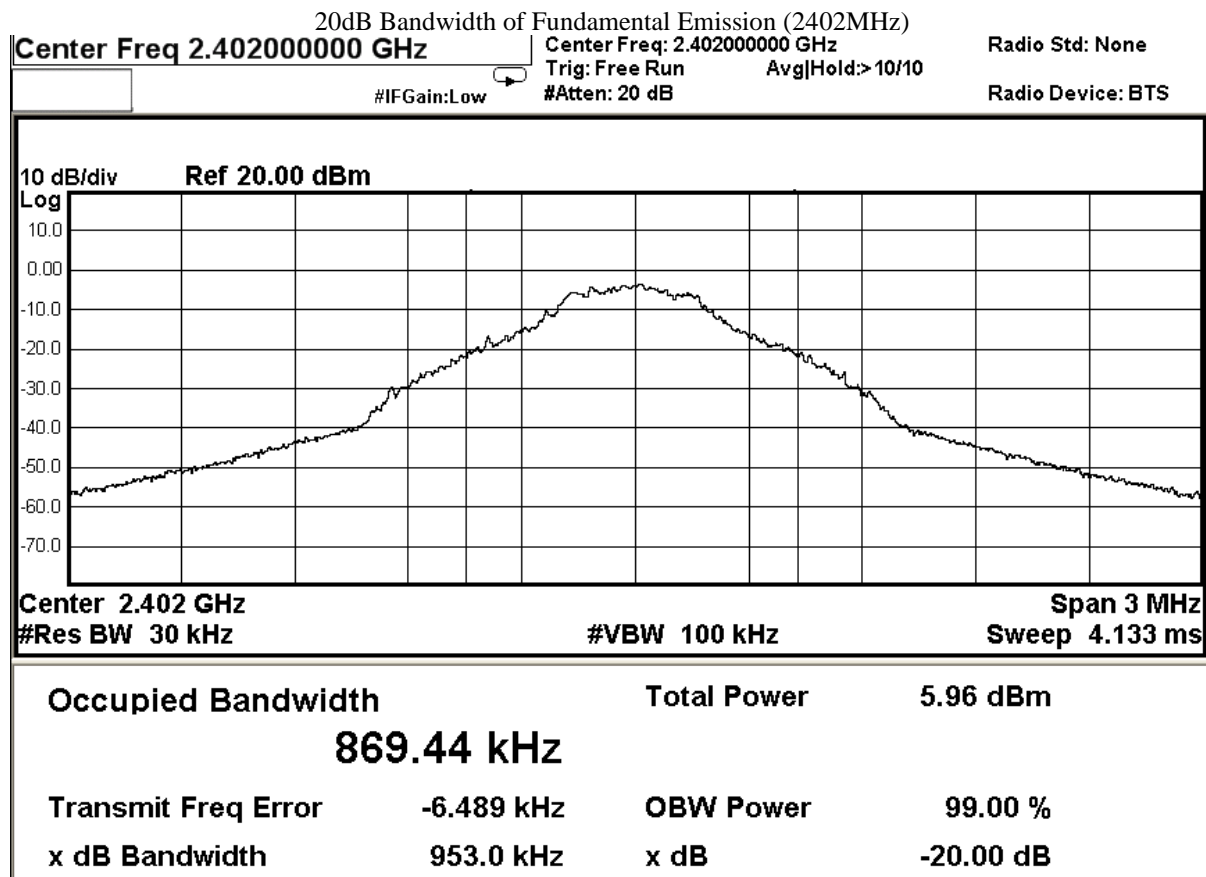
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Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2402.0	0.953



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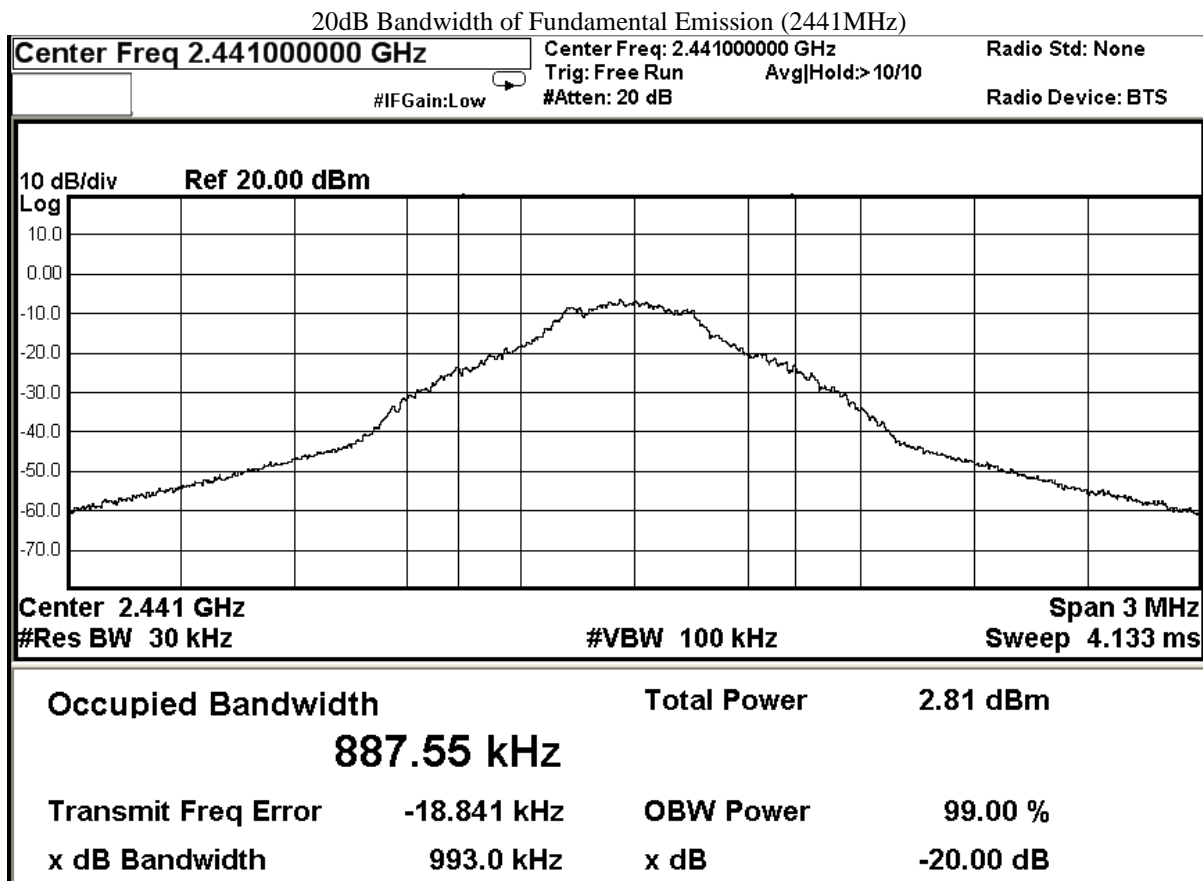
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Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2441.0	0.993



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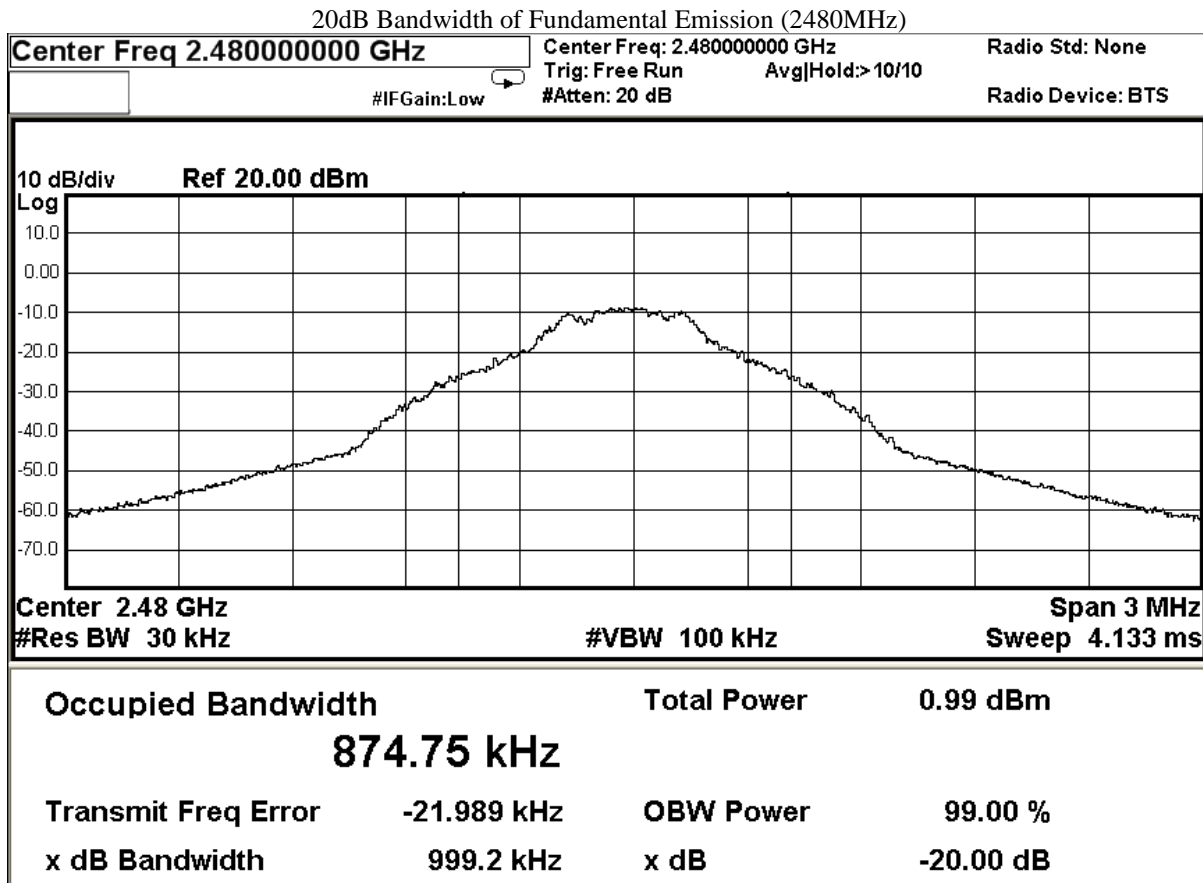
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Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2480.0	0.9992



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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	2023-03-21	2025-03-21
EM363	SIGNAL ANALYZER(10HZ-40GHZ)	R & S	FSV40	101231	2024-01-17	2026-01-17
EM299	BROADBAND HORN ANTENNA	ETS-LINDGREN	3115	00114120	2023-01-25	2025-01-25
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2023-01-16	2025-01-16
EM301	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-10	00130988	2023-02-15	2025-02-15
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2022-09-26	2025-09-26
EM355	BICONILOG ANTENNA	ETS-LINDGREN	3143B	00094856	2022-08-26	2025-08-26
EM200	DUAL CHANNEL POWER METER	R & S	NRVD	100592	2023-08-02	2025-08-02

##### Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM232	LISN	SCHAFFNER	NNB41	04/100082	2023-05-30	2025-05-30
EM181	EMI TEST RECEIVER	R & S	ESIB7	100072	2024-04-18	2025-04-18
EM179	IMPULSE LIMITER	R & S	ESH3-Z2	357.8810.52/54	2023-03-17	2025-03-17
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2022-02-06	2027-02-06
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	BSIB-K1	V1.20	N/A	N/A

Remarks:-

N/A Not Applicable or Not Available

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### Appendix B Photographs of EUT

**Front View of the product**



**Rear View of the product**



**Inner Circuit Top View**



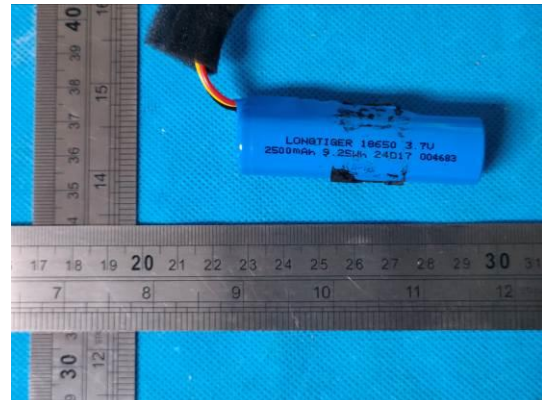
**Inner Circuit Bottom View**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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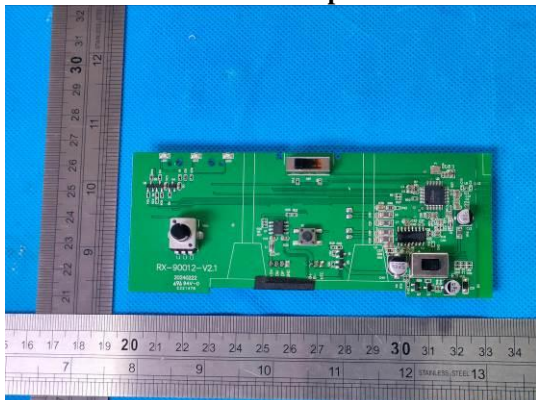
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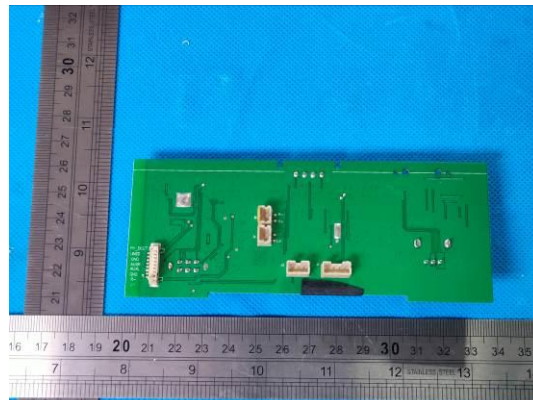
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### Photographs of EUT

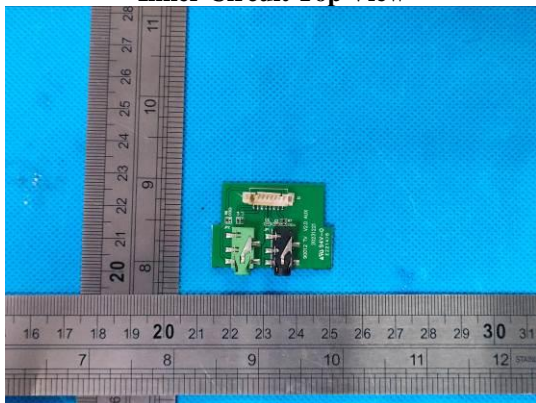
**Inner Circuit Top View**



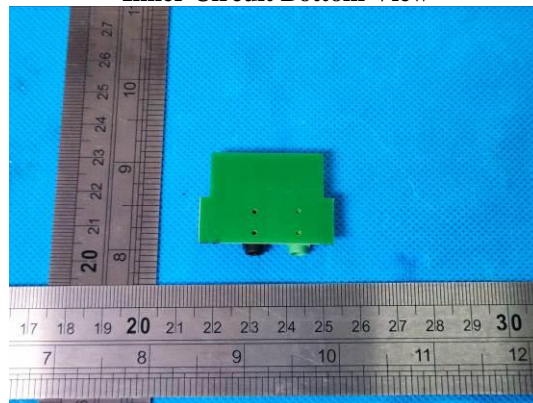
**Inner Circuit Bottom View**



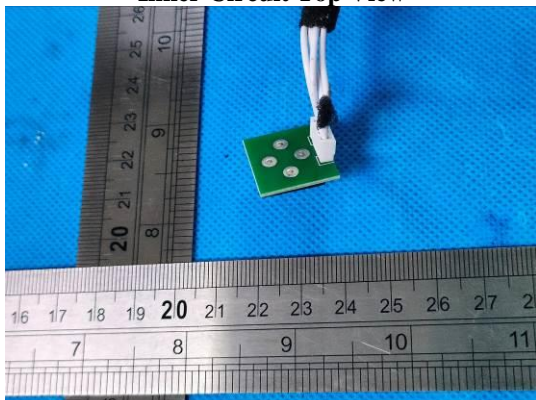
**Inner Circuit Top View**



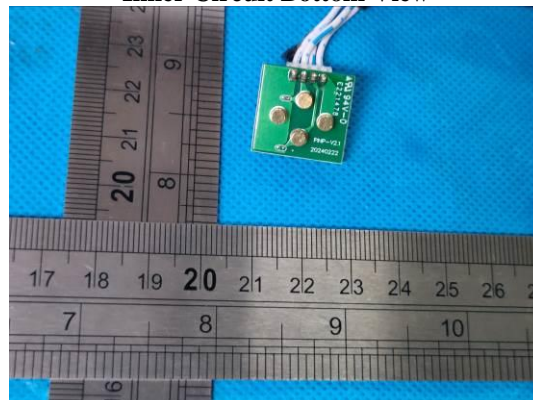
**Inner Circuit Bottom View**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



The Hong Kong Standards and Testing Centre Limited

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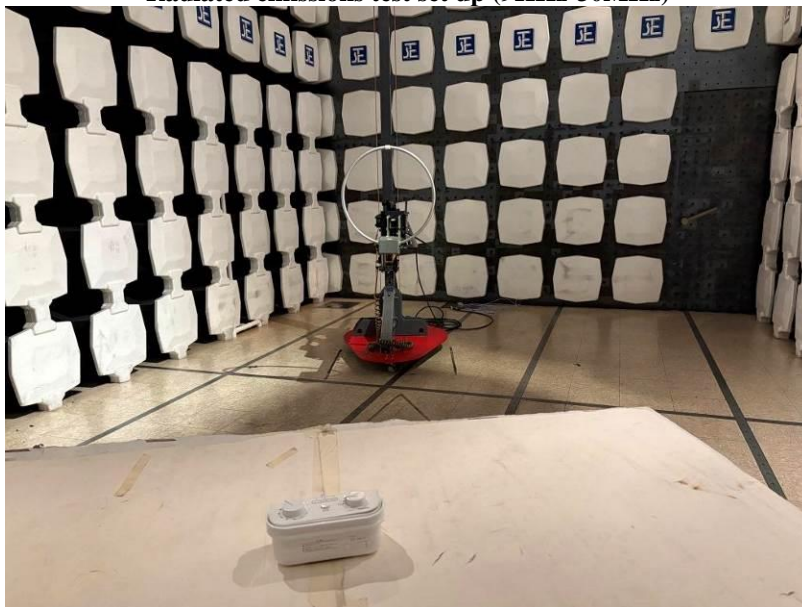
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### Photographs of EUT

**Radiated emissions test set up (9KHz-30MHz)**



**Radiated emissions test set up (30MHz-1000MHz)**



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### Photographs of EUT

**Radiated emissions test set up (Above 1GHz)**



**Measurement of Conducted Emission Test Set Up**



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

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10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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