



Report No.: TW2408247E

Applicant: Shenzhen MODSEMI Co., Ltd

Product: Finder Card

Model No.: FinderPro Card (see the page 4 for additional models)

Trademark: MODSEMI

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

*Terry Tang*

Terry Tang

Manager

Dated: September 10, 2024

**Results appearing herein relate only to the sample tested  
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



## **Special Statement:**

### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

### **CAB identifier: CN0033**

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## Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: Shenzhen MODSEMI Co., Ltd  
Address: 1311 Huafeng International Business Building, 4018 Baoan Avenue, Xixiang Street, Baoan District, Shenzhen

### 1.3 Description of EUT

Product: Finder Card  
Manufacturer: Shenzhen MODSEMI Co., Ltd  
Address: 1311 Huafeng International Business Building, 4018 Baoan Avenue, Xixiang Street, Baoan District, Shenzhen  
Trademark: MODSEMI  
Additional Trademark: N/A  
Model Number: FinderPro Card  
Additional Model Number: MFM06, Smart Finder, MOD-FM01, MODFM, CG TAG01, FM10, FM01, FM02, FM06, FM05, Wallet Finder, HEREANCE Finder Tag, Ofive Finder Card, NeotrixQI F01, SmartTag, Finder Card, AirCard Pro, Amine Smart Card NNCD1series, Link-FM25, Apollo Scooters  
Hardware Version: V1.3  
Software Version: 1.0.31  
Type of Modulation: GFSK (Bluetooth BLE)  
Frequency range: 2402-2480MHz  
Frequency Selection: By software  
Channel Number: 40  
Rating: DC3.0V, 0.1A, 0.3W  
Battery: DC3.0V, 540mAh  
Antenna Designation: PCB antenna with gain 0.73dBi maximum (Get from the antenna specification)

### 1.4 Submitted Sample: 3 Samples

### 1.5 Test Duration

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2024-08-26 to 2024-09-06

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

*Andy Xing*

Print Name: Andy Xing

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## 2.0 Test Equipment

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>N/A</b>	<b>N/A</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(e)</b>	<b>Power Spectral Density Limit: max. 8dBm/3kHz</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>Pass</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

#### 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.**

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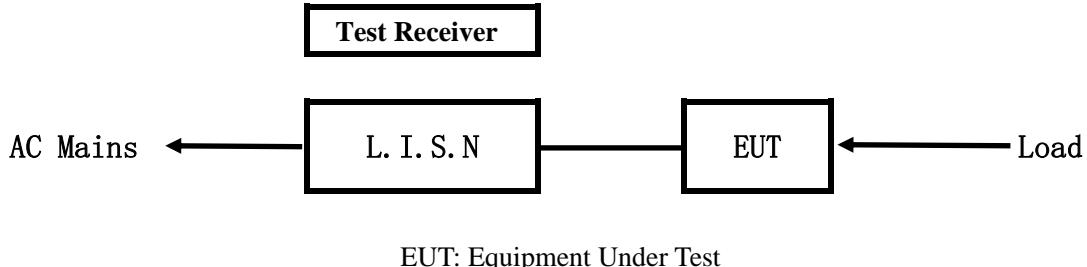
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

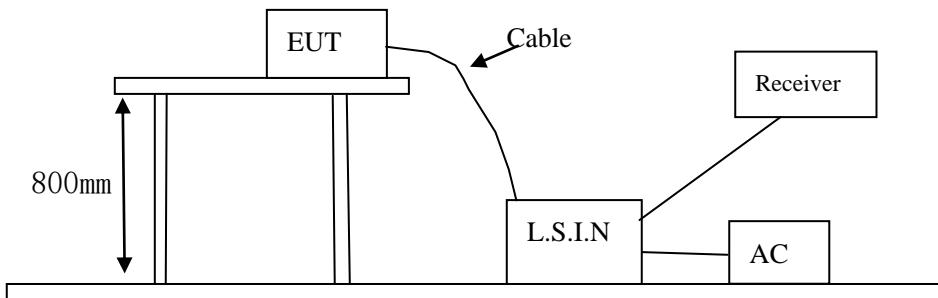


### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 -2013.

Test Voltage: N/A

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
Finder Card	Shenzhen MODSEMI Co., Ltd	FinderPro Card (see the page 4 for additional models)	2BKKP-MFM06

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
PC	Dell	P54G	--

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow  
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Note: EUT not directly or in-directly connected to the AC power source, so this test item not applicable.**

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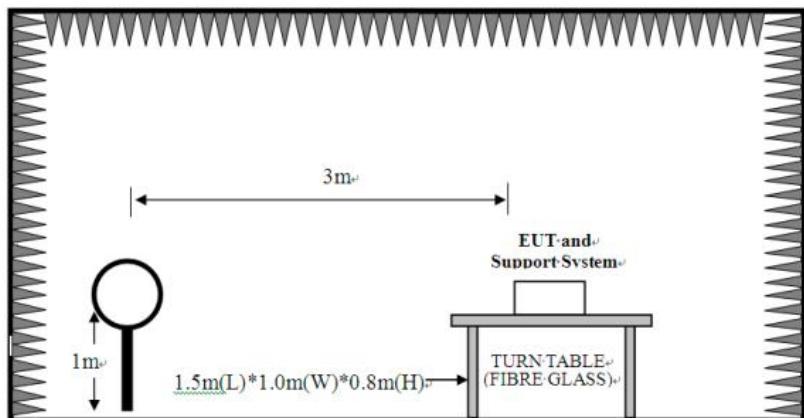
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



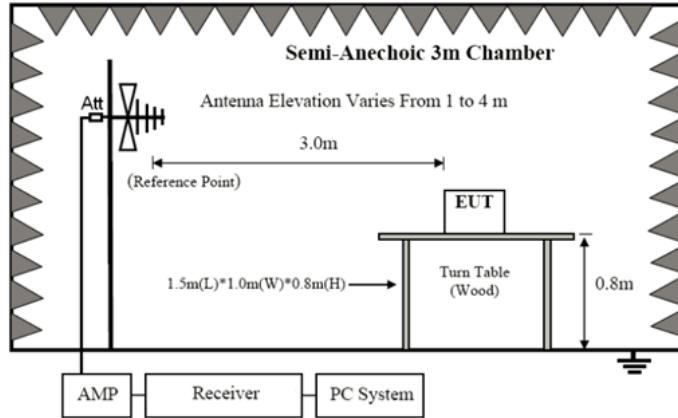
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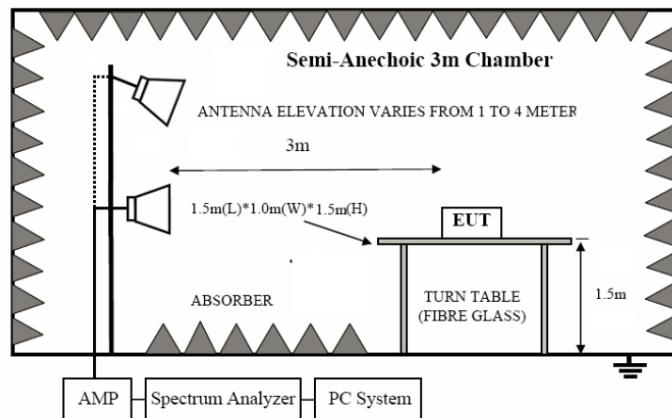
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of The EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

## 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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**Frequencies in restricted band are complied to limit on Paragraph 15.209**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) =  $20 \log \text{RF Voltage (uV)}$
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. Battery was fully charged during test

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### Test result

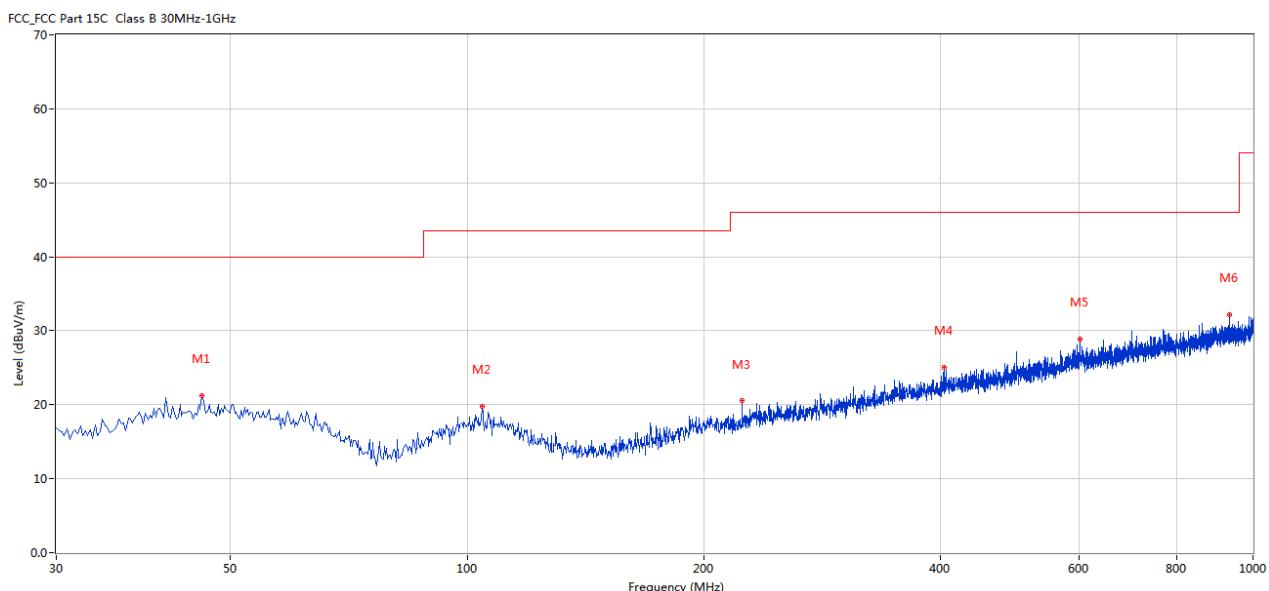
### General Radiated Emission Data and Harmonics Radiated Emission Data

#### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: **Keep Bluetooth Transmitting**

**Results:** **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.001	21.18	-11.40	40.0	18.82	Peak	236.00	100	Horizontal	Pass
2	104.429	19.81	-13.28	43.5	23.69	Peak	72.00	100	Horizontal	Pass
3	223.709	20.51	-13.11	46.0	25.49	Peak	212.00	100	Horizontal	Pass
4	404.326	25.05	-8.50	46.0	20.95	Peak	186.00	100	Horizontal	Pass
5	602.642	28.91	-5.08	46.0	17.09	Peak	54.00	100	Horizontal	Pass
6	934.299	32.20	-1.72	46.0	13.80	Peak	359.00	100	Horizontal	Pass

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### Test result

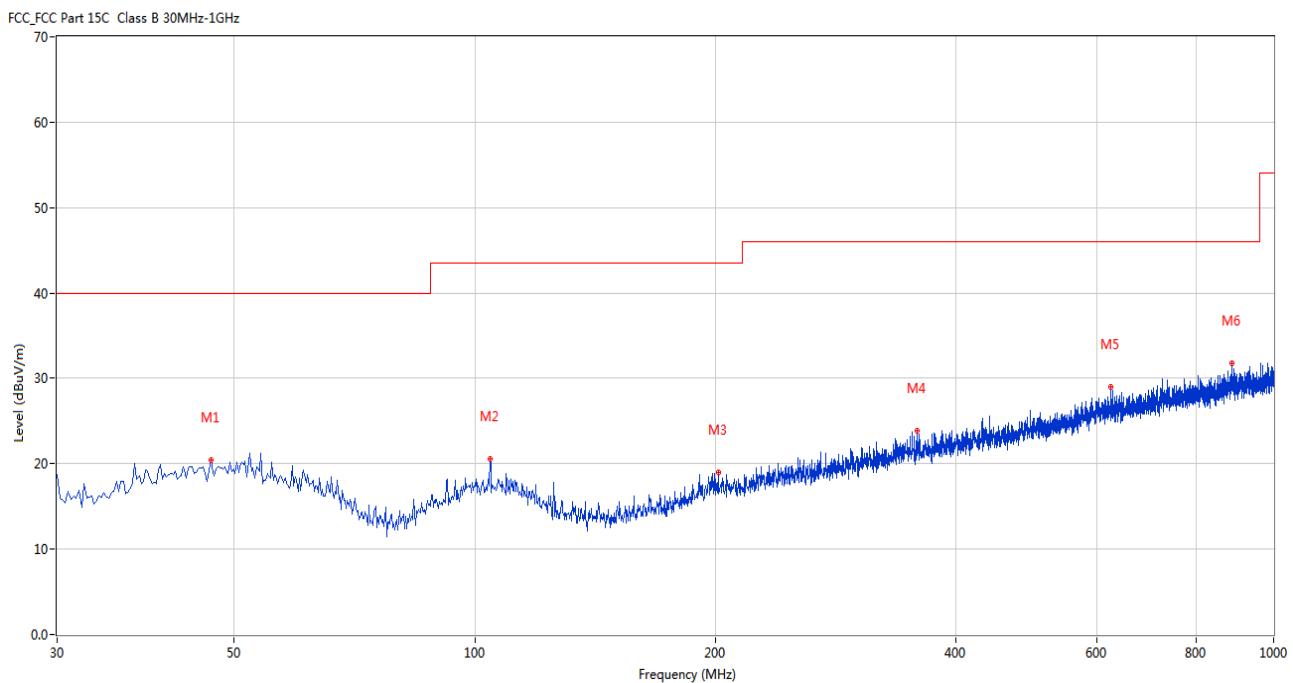
### General Radiated Emission Data and Harmonics Radiated Emission Data

#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

**Results:** **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.728	20.42	-11.44	40.0	19.58	Peak	227.00	100	Vertical	Pass
2	104.429	20.56	-13.28	43.5	22.94	Peak	129.00	100	Vertical	Pass
3	201.647	18.99	-13.41	43.5	24.51	Peak	99.00	100	Vertical	Pass
4	357.778	23.89	-9.50	46.0	22.11	Peak	304.00	100	Vertical	Pass
5	625.674	28.95	-4.85	46.0	17.05	Peak	133.00	100	Vertical	Pass
6	885.569	31.80	-2.03	46.0	14.20	Peak	355.00	100	Vertical	Pass

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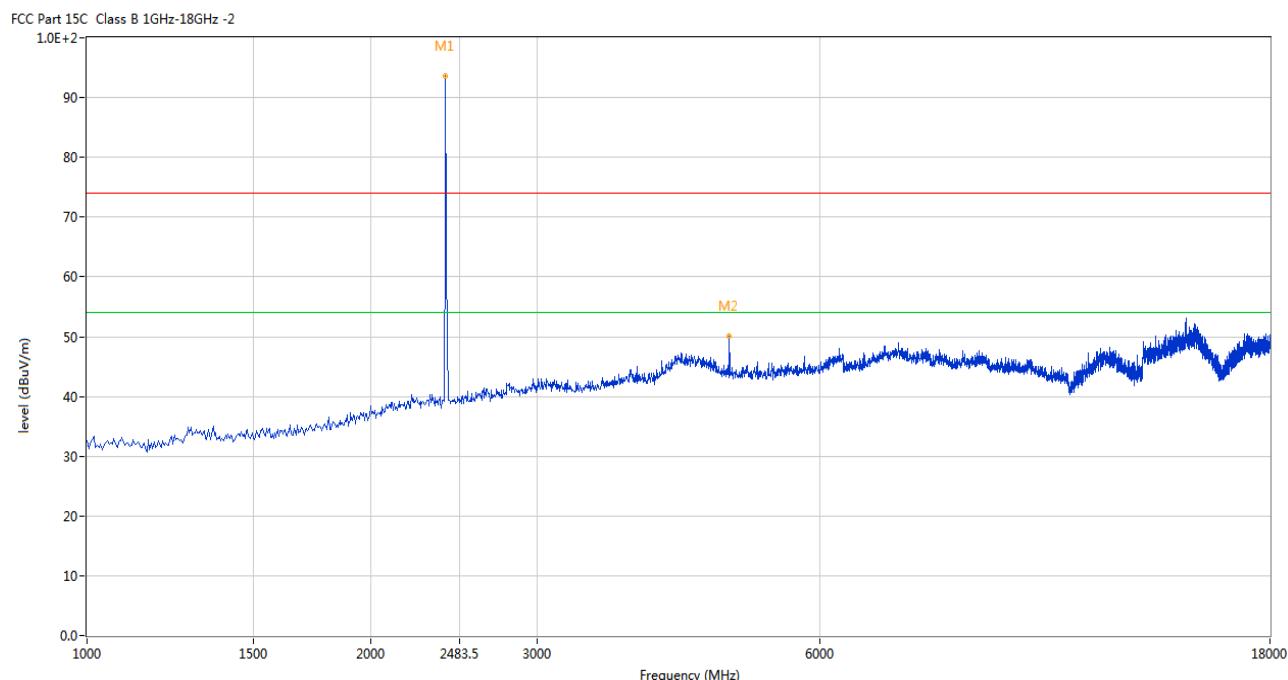
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## LE-1M

Please refer to the following test plots for details:

### Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	93.64	-3.57	114.0	-20.36	Peak	286.00	100	Horizontal	Pass
2	4802.799	50.02	3.12	74.0	-23.98	Peak	286.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

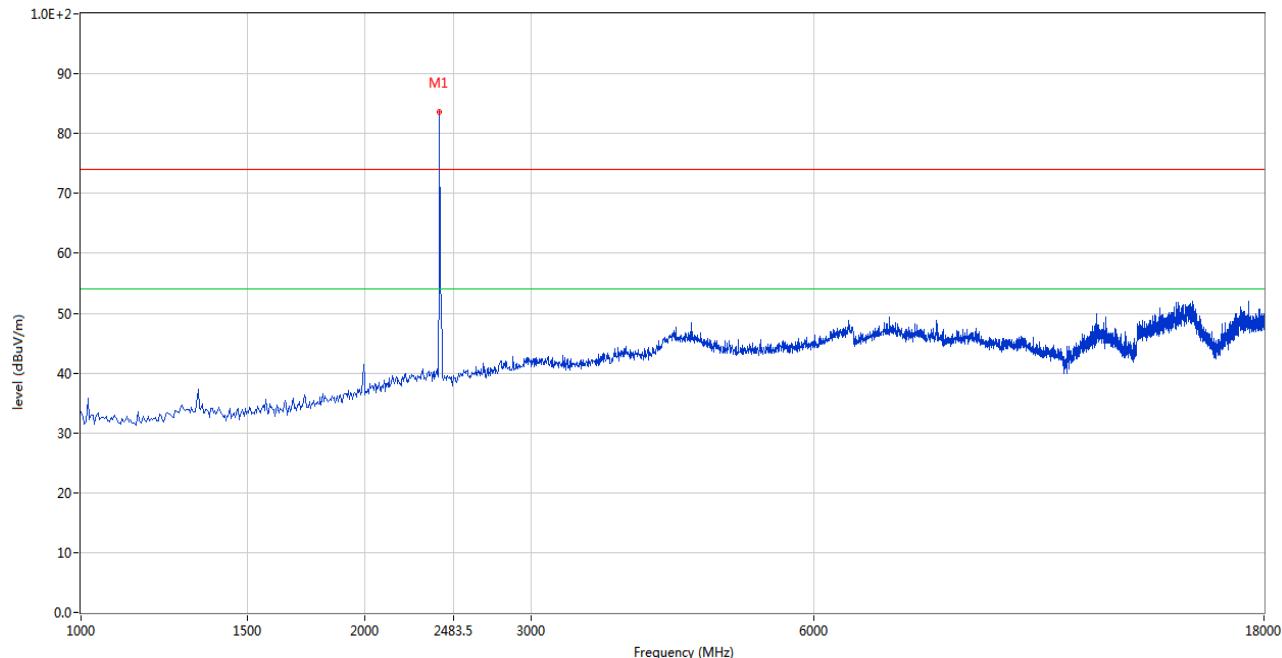
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### Low Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.58	-3.57	114.0	-30.42	Peak	31.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

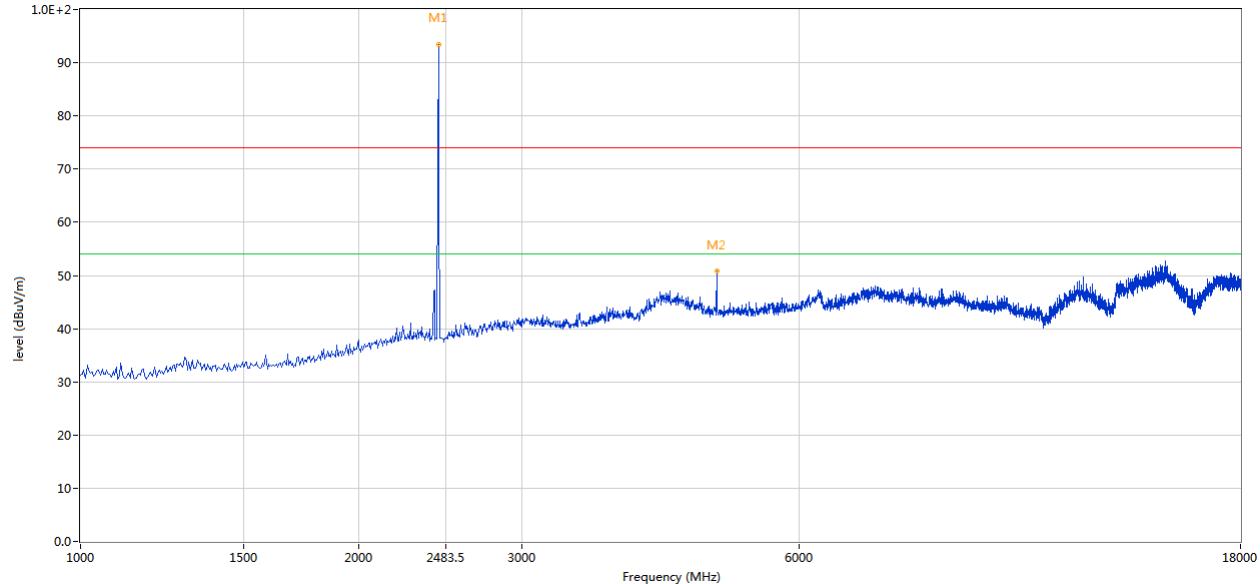
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### Middle Channel: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	93.47	-3.57	114.0	-20.53	Peak	281.00	100	Horizontal	Pass
2	4879.280	50.88	3.20	74.0	-23.12	Peak	281.00	100	Horizontal	Pass

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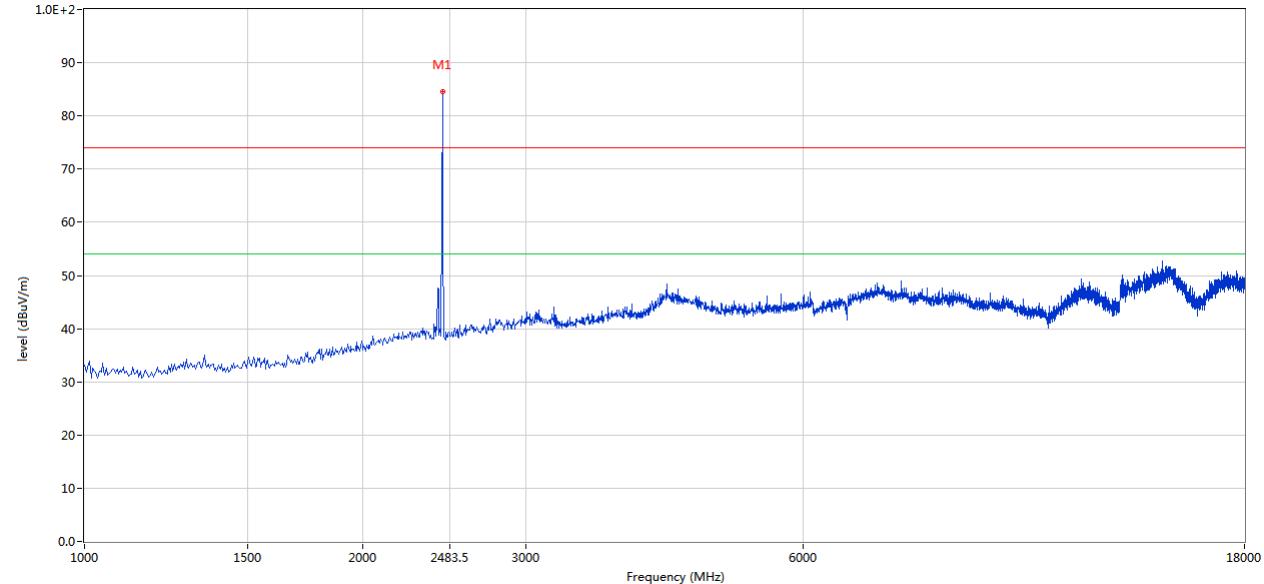
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### Middle Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	84.62	-3.57	114.0	-29.38	Peak	52.00	100	Vertical	Pass

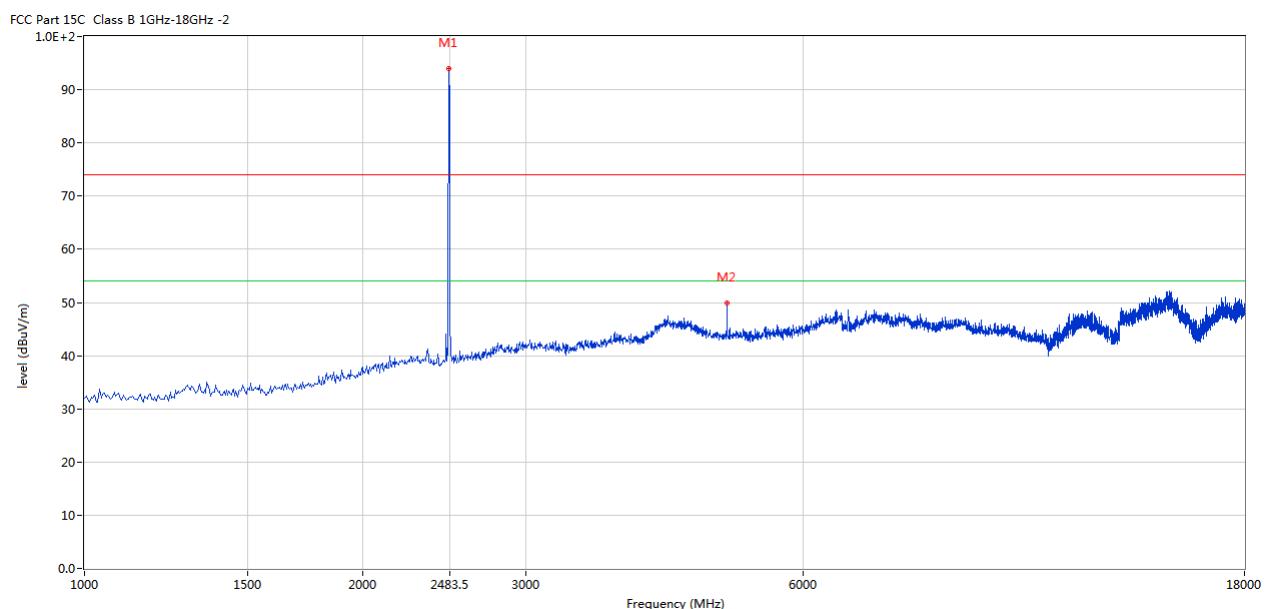
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### High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	93.89	-3.57	114.0	-20.11	Peak	262.00	100	Horizontal	Pass
2	4960.010	49.83	3.36	74.0	-24.17	Peak	253.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

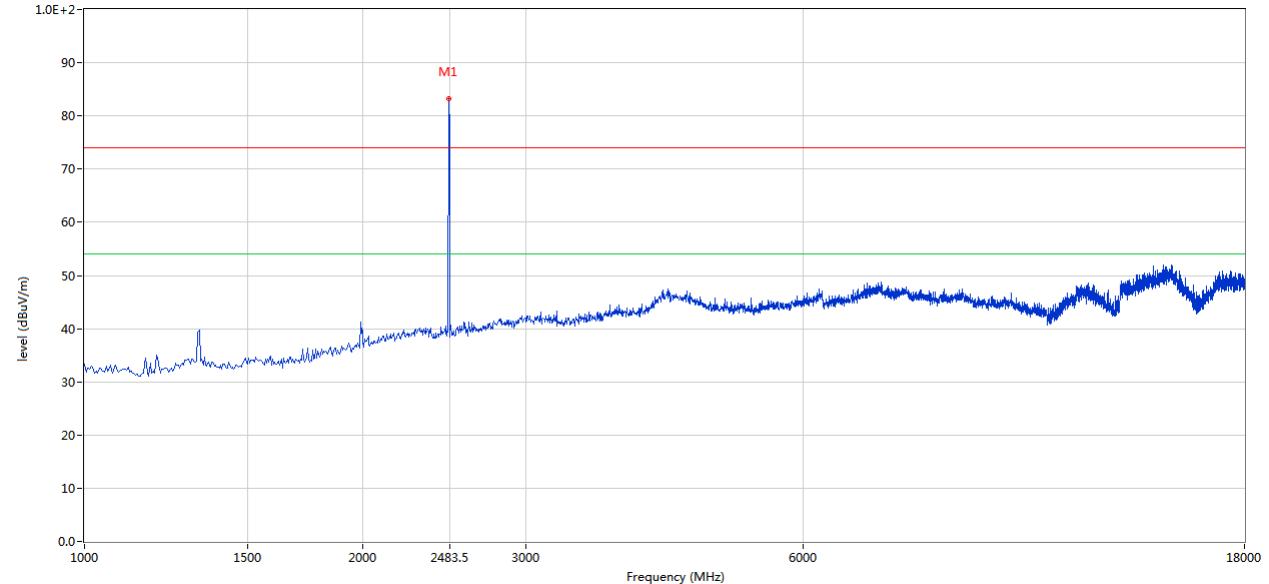
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### High Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	83.30	-3.57	114.0	-30.70	Peak	85.00	100	Vertical	Pass

Note: 1. Level = Reading + AF + Cable - Preamp  
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.  
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.

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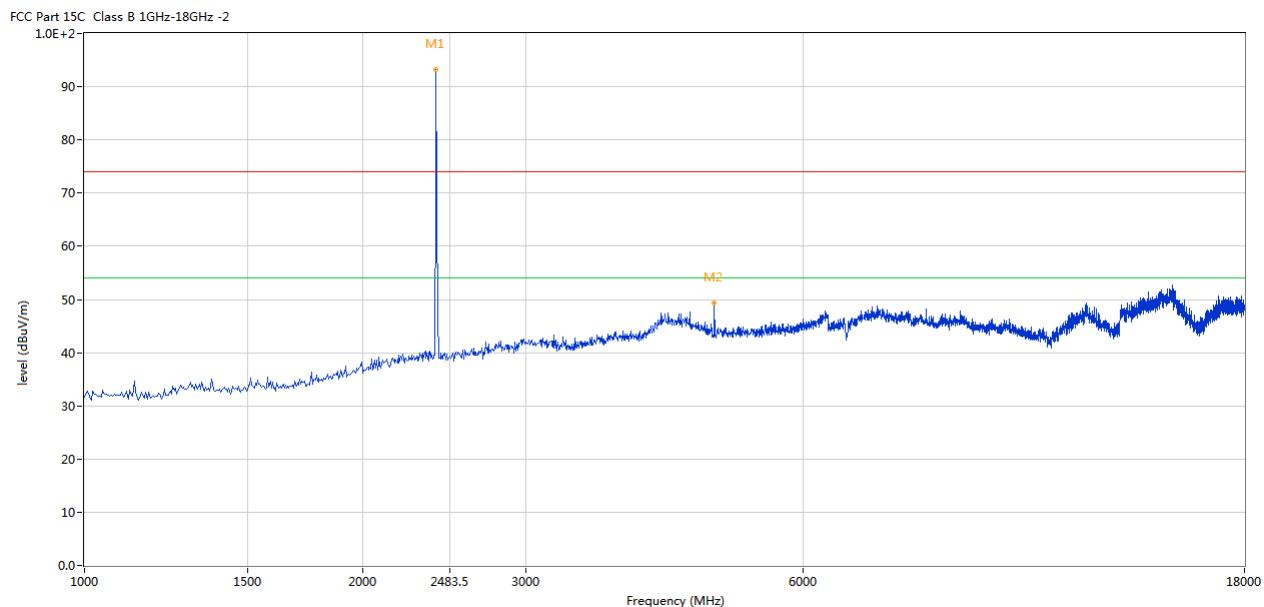
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## LE-2M

Please refer to the following test plots for details:

### Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	93.17	-3.57	114.0	-20.83	Peak	289.00	100	Horizontal	Pass
2	4802.799	49.30	3.12	74.0	-24.70	Peak	289.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

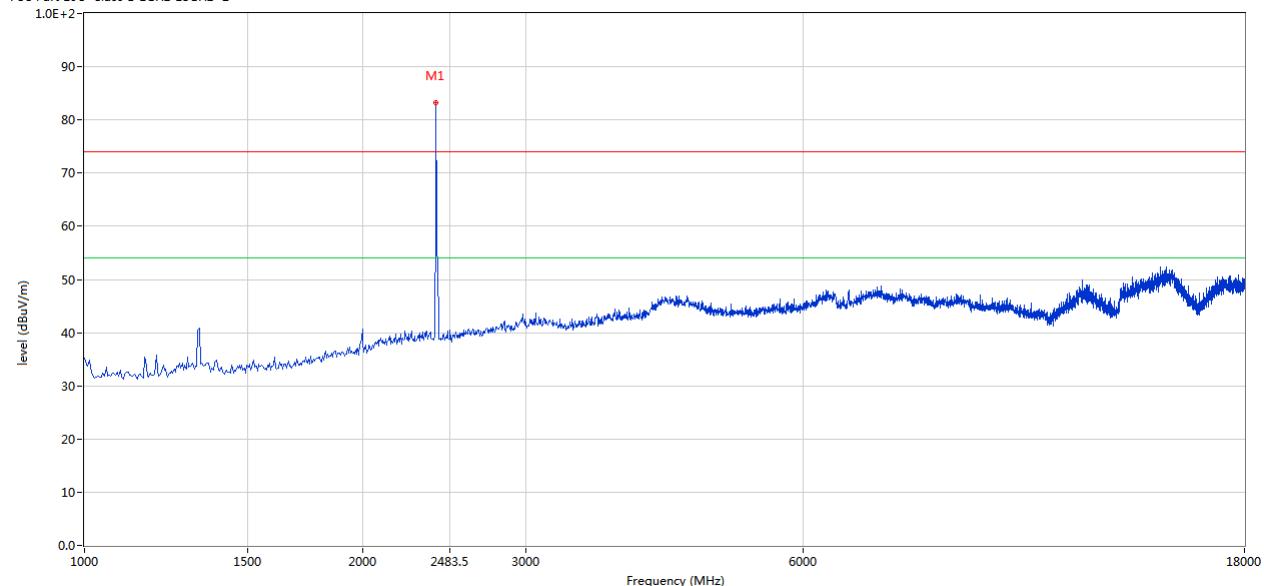
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### Low Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.31	-3.57	114.0	-30.69	Peak	24.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

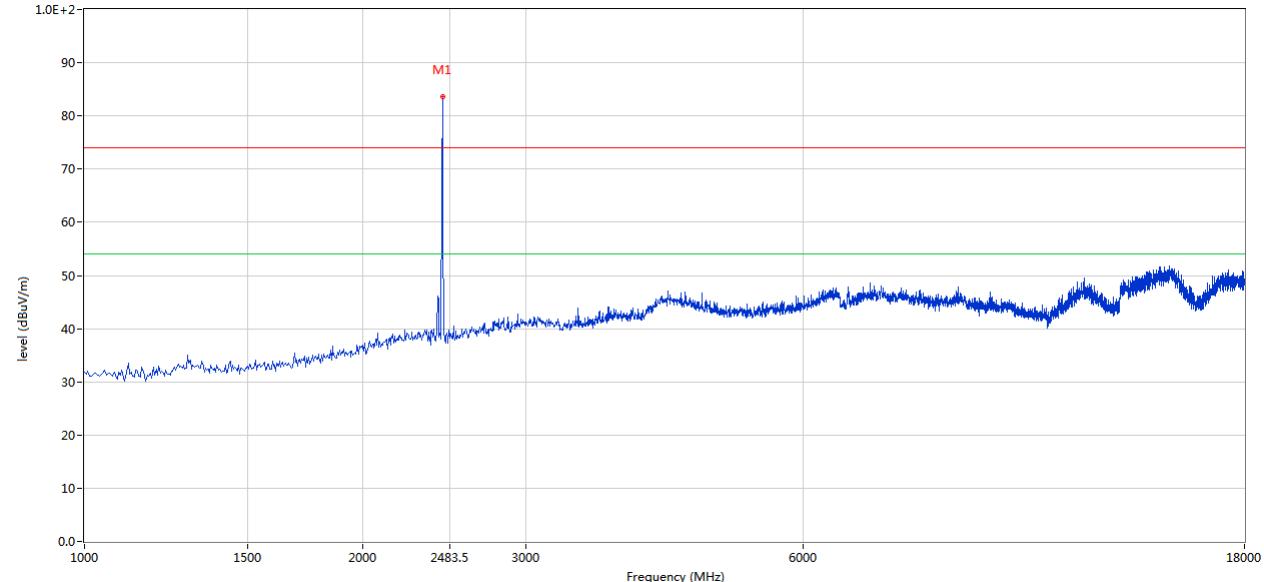
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### Middle Channel: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	83.71	-3.57	114.0	-30.29	Peak	42.00	100	Horizontal	Pass

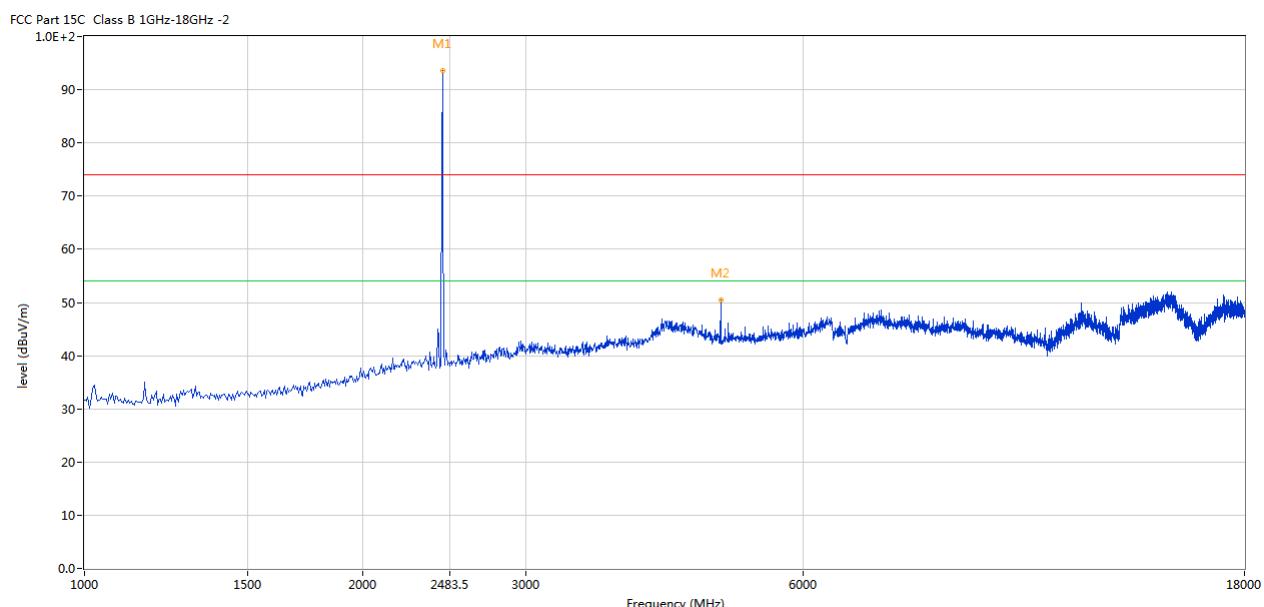
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### Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	93.53	-3.57	114.0	-20.47	Peak	281.00	100	Vertical	Pass
2	4879.280	50.42	3.20	74.0	-23.58	Peak	281.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

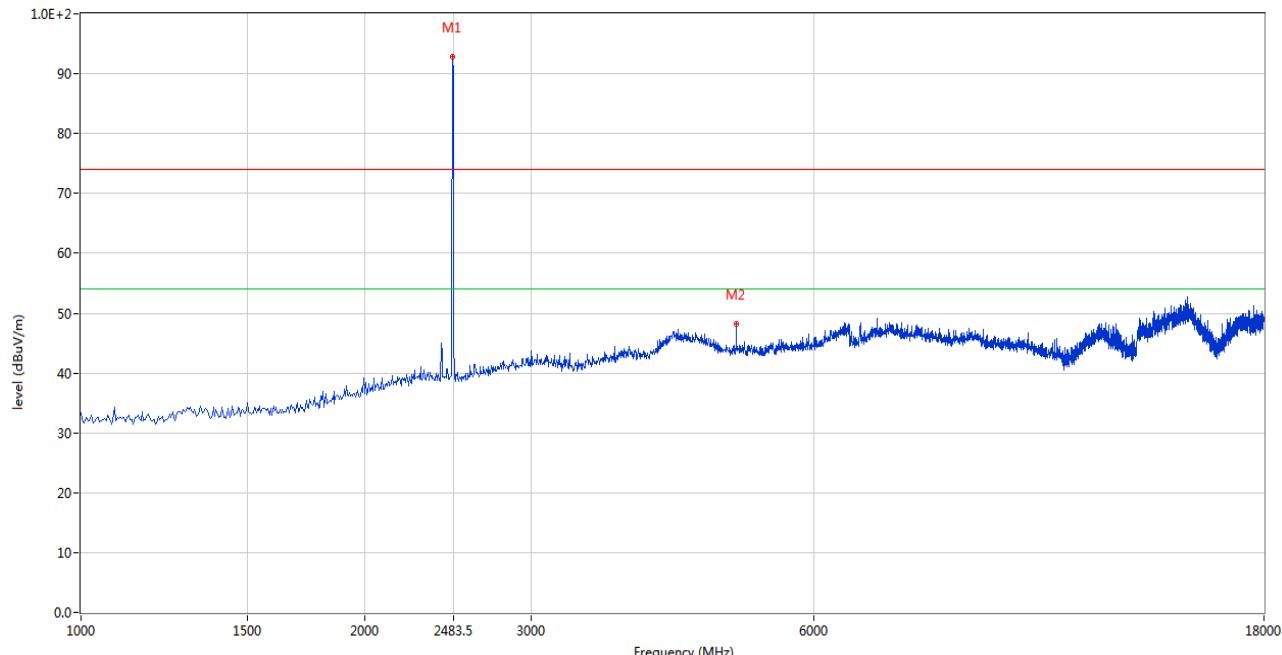
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### High Channel: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	92.77	-3.57	114.0	-21.23	Peak	266.00	100	Horizontal	Pass
2	4960.010	48.20	3.36	74.0	-25.80	Peak	254.00	100	Horizontal	Pass

The report refers only to the sample tested and does not apply to the bulk.

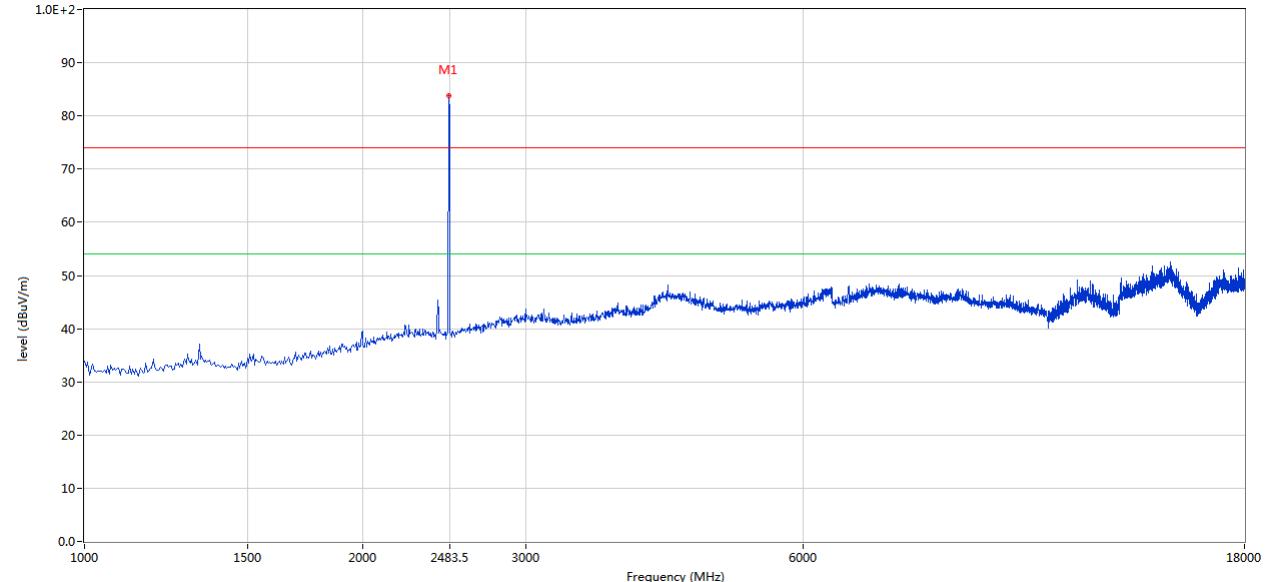
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### High Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	83.73	-3.57	114.0	-30.27	Peak	46.00	100	Vertical	Pass

Note: 1. Level = Reading + AF + Cable - Preamp  
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.  
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.

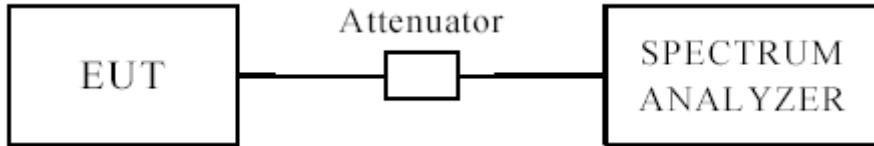
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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.4 Test Result

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## 6dB BW

### LE-1M

EUT		Finder Card	Model	FinderPro Card	
Mode		Keep Transmitting	Input Voltage	DC3.0V	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)		6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402		673	0.5	Pass
Middle	2440		678	0.5	Pass
High	2480		683	0.5	Pass

The report refers only to the sample tested and does not apply to the bulk.

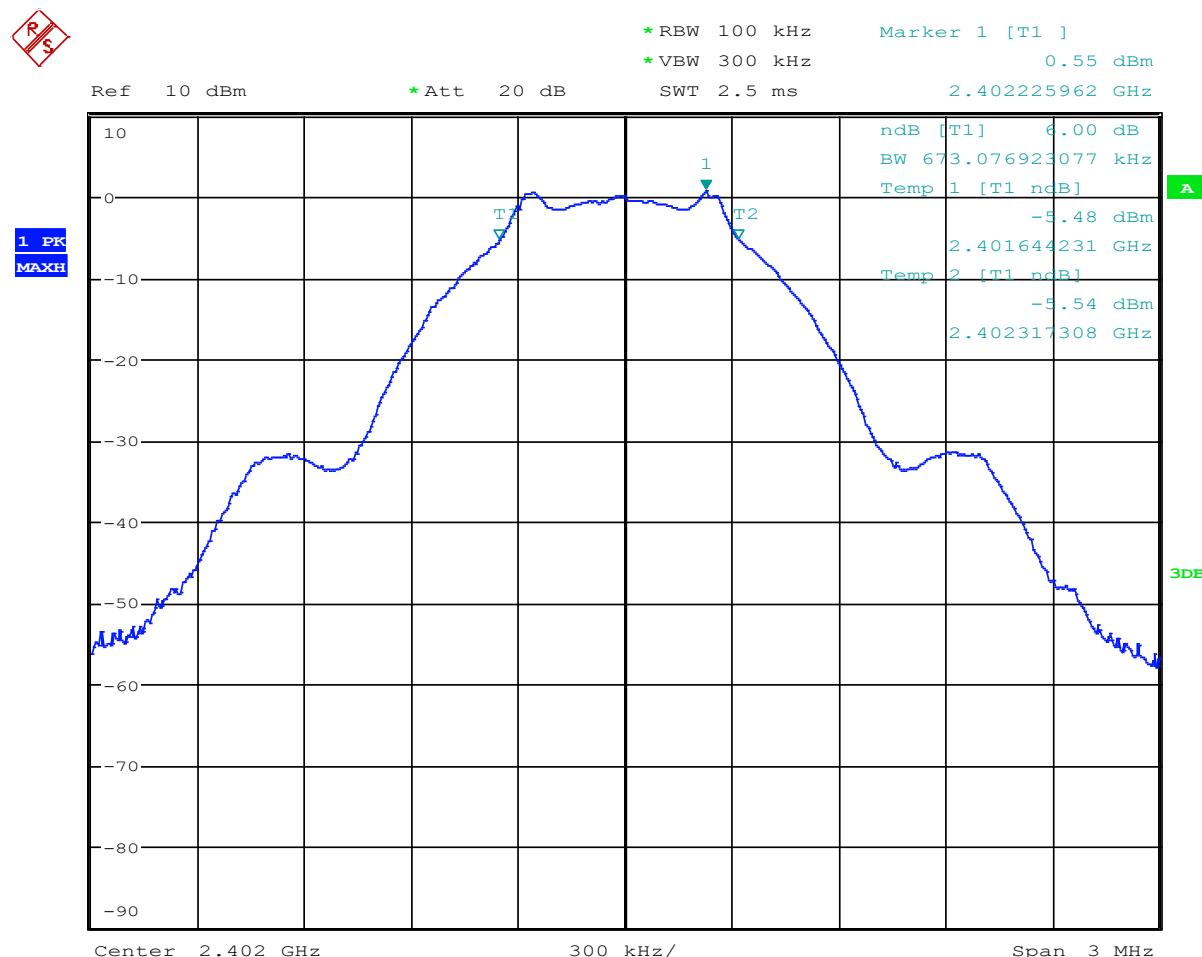
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Test Figure:

### 1. Condition: Low Channel



Date: 6.SEP.2024 15:07:36

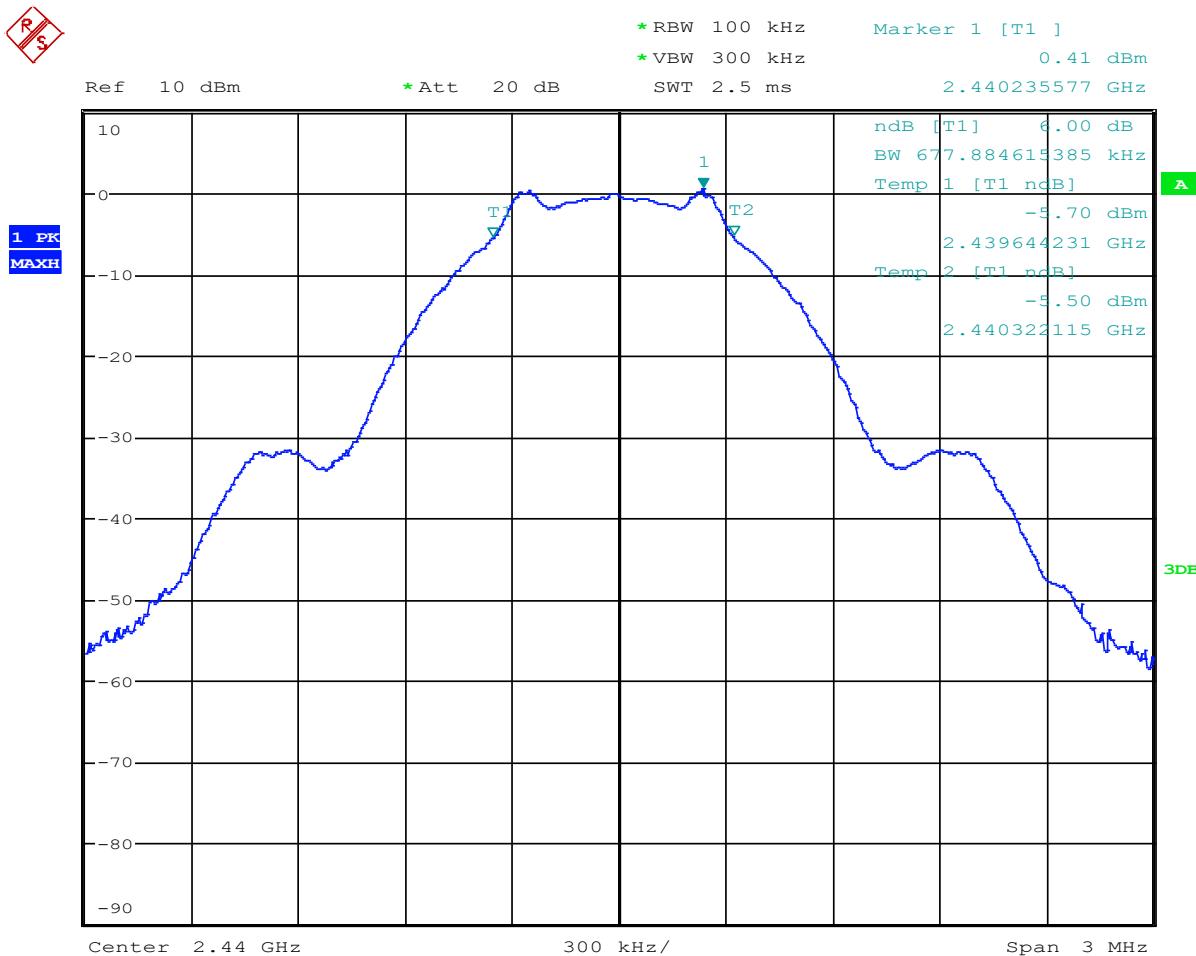
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## 2. Condition: Middle Channel



Date: 6.SEP.2024 15:08:41

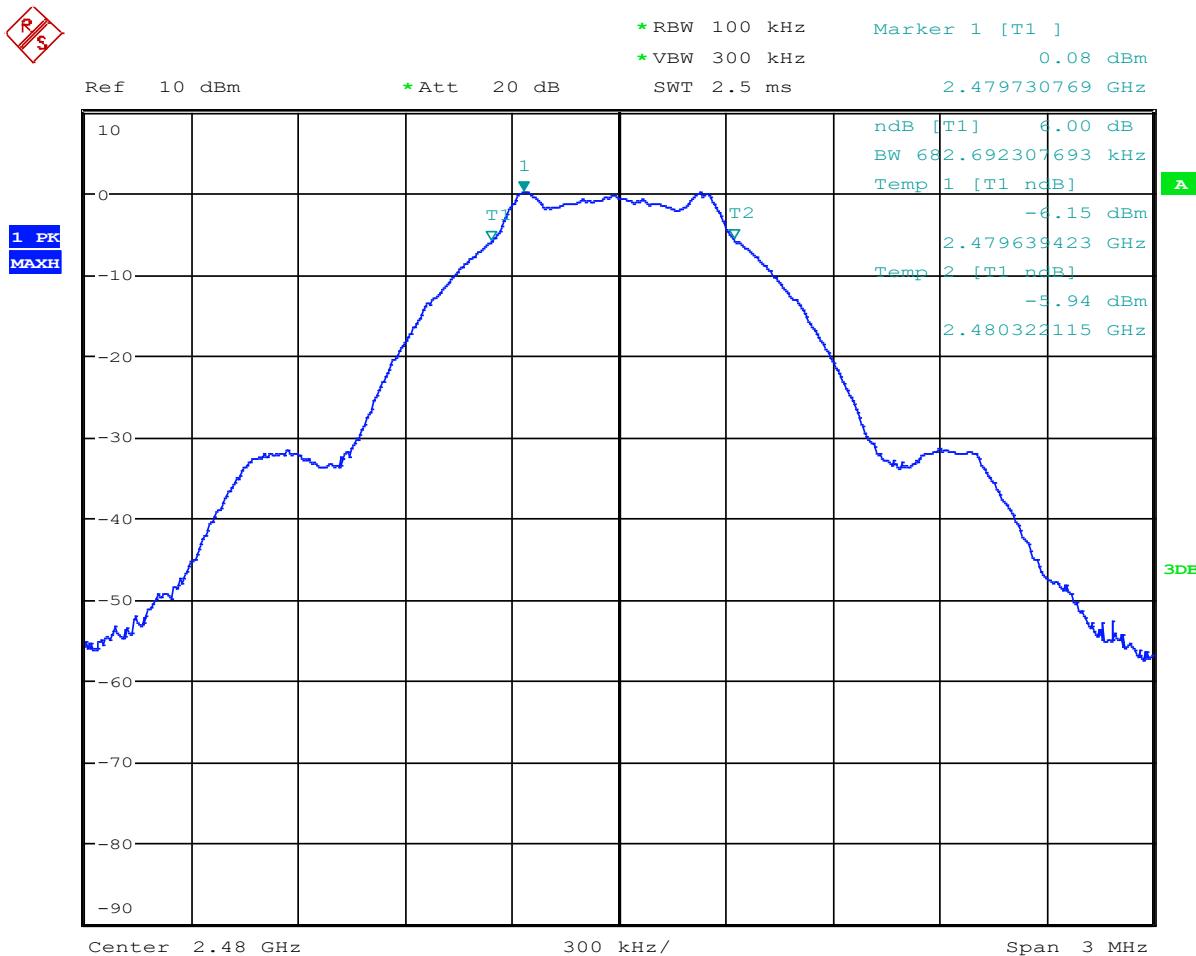
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### 3. High Channel



Date: 6.SEP.2024 15:09:18

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## LE-2M

EUT		Finder Card	Model	FinderPro Card	
Mode		Keep Transmitting	Input Voltage	DC3.0V	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)		6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402		1306	0.5	Pass
Middle	2440		1322	0.5	Pass
High	2480		1290	0.5	Pass

The report refers only to the sample tested and does not apply to the bulk.

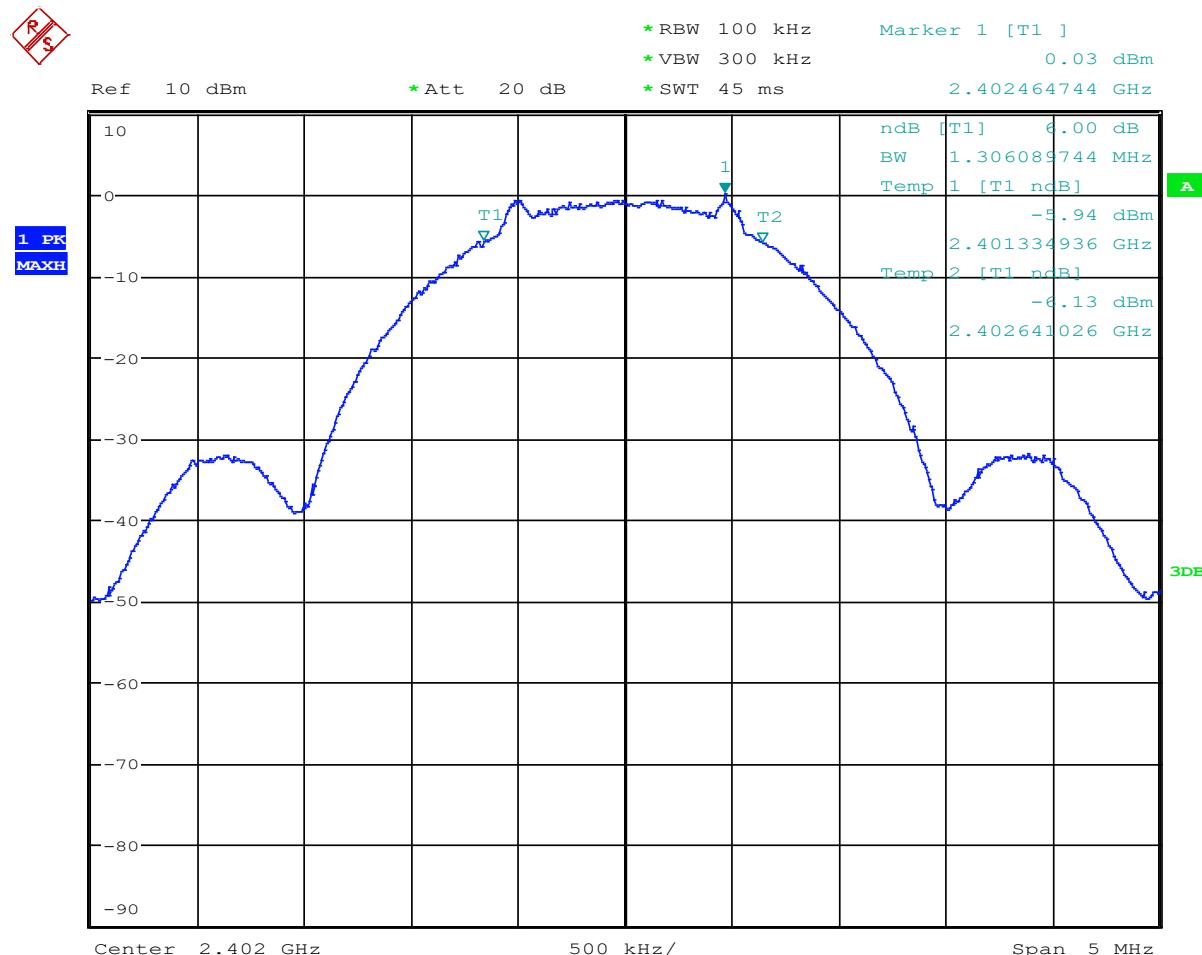
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Test Figure:

### 1. Condition: Low Channel



Date: 6.SEP.2024 15:23:58

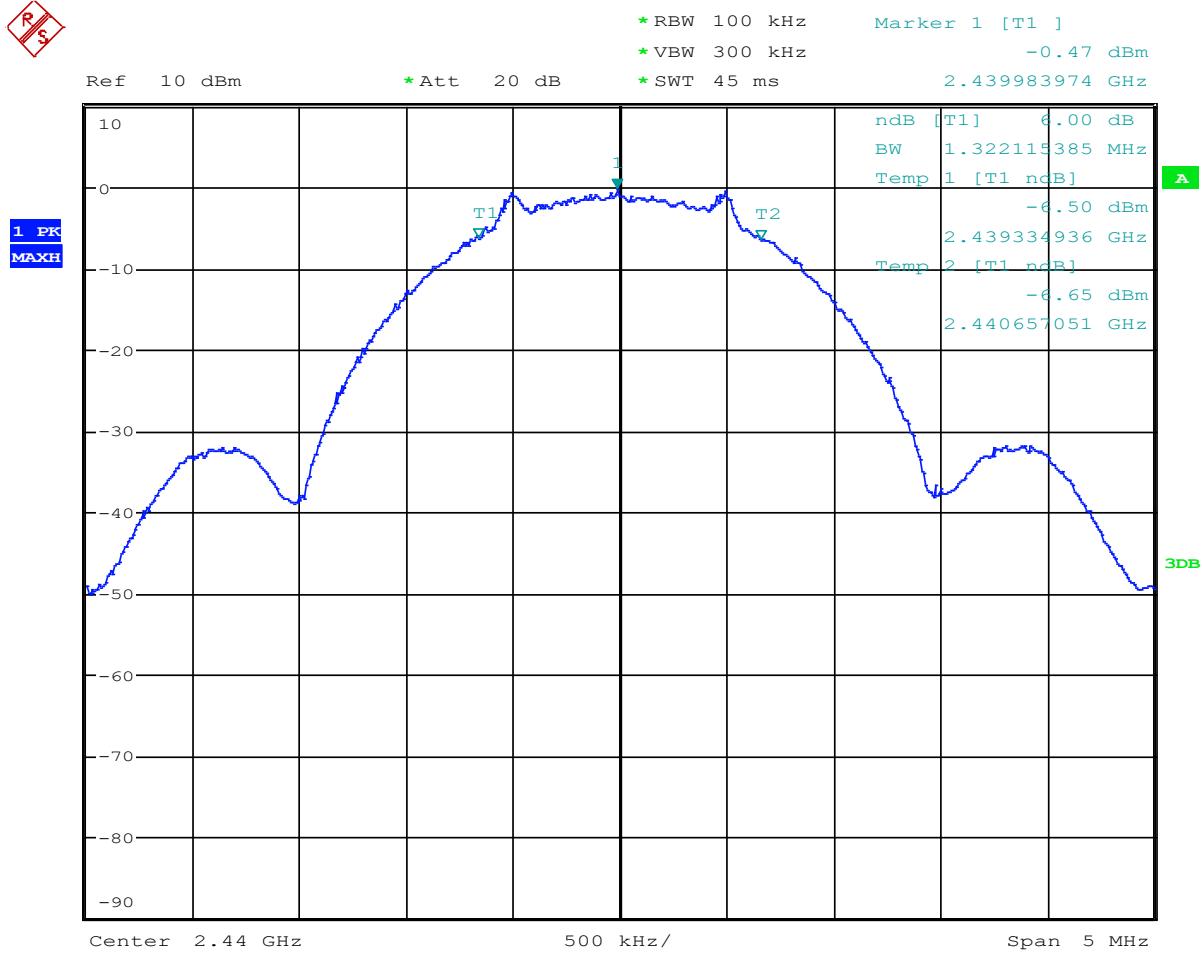
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## 2. Condition: Middle Channel



Date: 6.SEP.2024 15:22:53

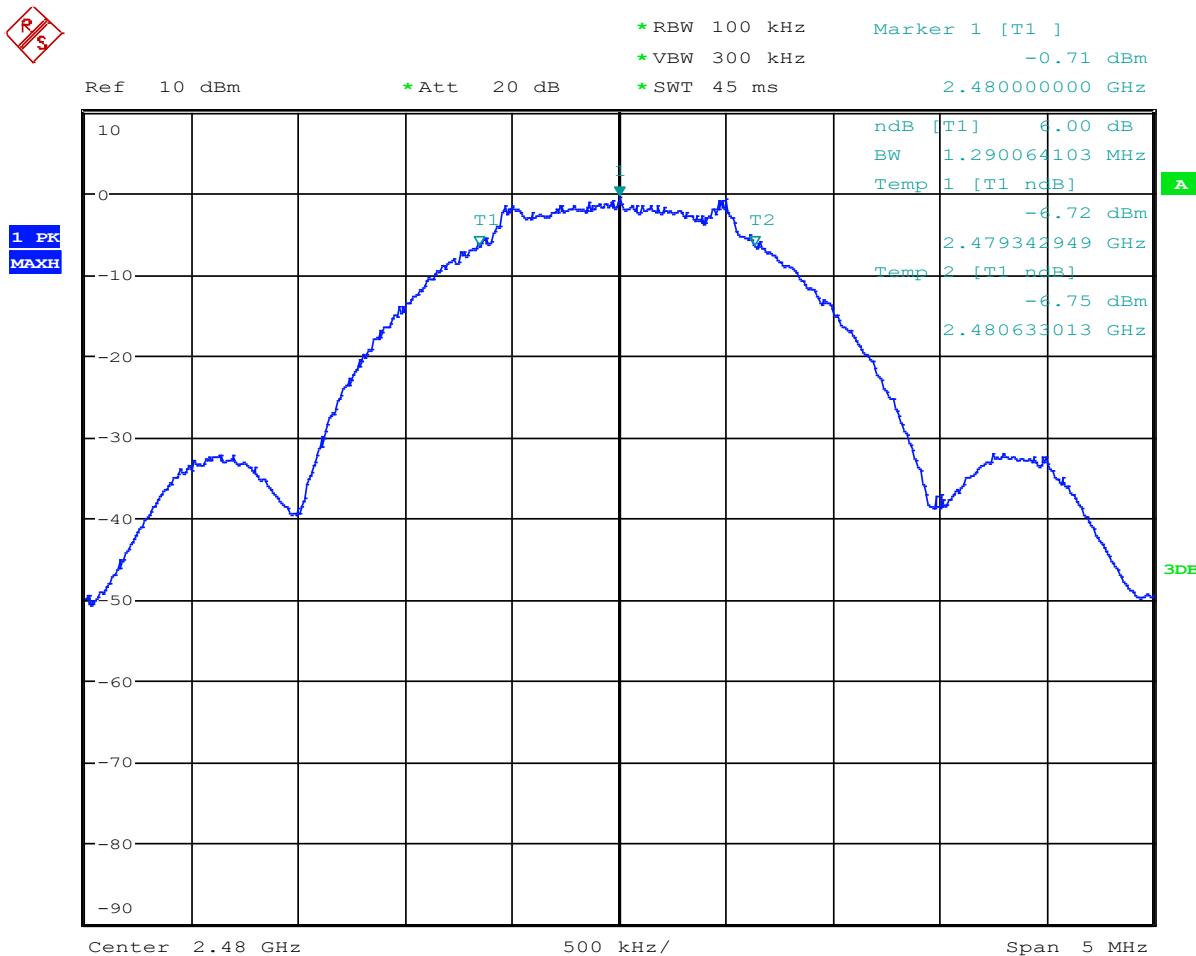
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### 3. High Channel



Date: 6.SEP.2024 15:22:04

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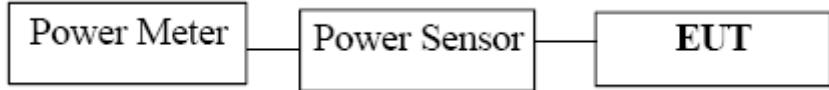
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## 8. Maximum Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

**Note: the Peak power were measured.**

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## 8.4 Test Results

### LE-1M

EUT		Finder Card	Model	FinderPro Card	
Mode		Keep Transmitting	Input Voltage	DC3.0V	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)
		Peak			
Low	2402	4.94			30
Middle	2440	5.14			30
High	2480	5.01			30

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

### LE-2M

EUT		Finder Card	Model	FinderPro Card	
Mode		Keep Transmitting	Input Voltage	DC3.0V	
Temperature		24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)
		Peak			
Low	2402	4.92			30
Middle	2440	5.14			30
High	2480	5.01			30

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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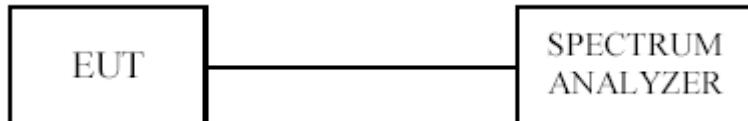
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW  $\geq$  30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be  $\leq$  8 dBm/3kHz.

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## 9.4 Test Result

### LE-1M

EUT		Finder Card		Model		FinderPro Card	
Mode		Keep Transmitting		Input Voltage		DC3.0V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)		Maximum Limit (dBm/3kHz)	Pass/ Fail	
Low	-3.72	0.2	-3.52		8	Pass	
Middle	-3.90	0.2	-3.70		8	Pass	
High	-4.56	0.2	-4.36		8	Pass	

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

The report refers only to the sample tested and does not apply to the bulk.

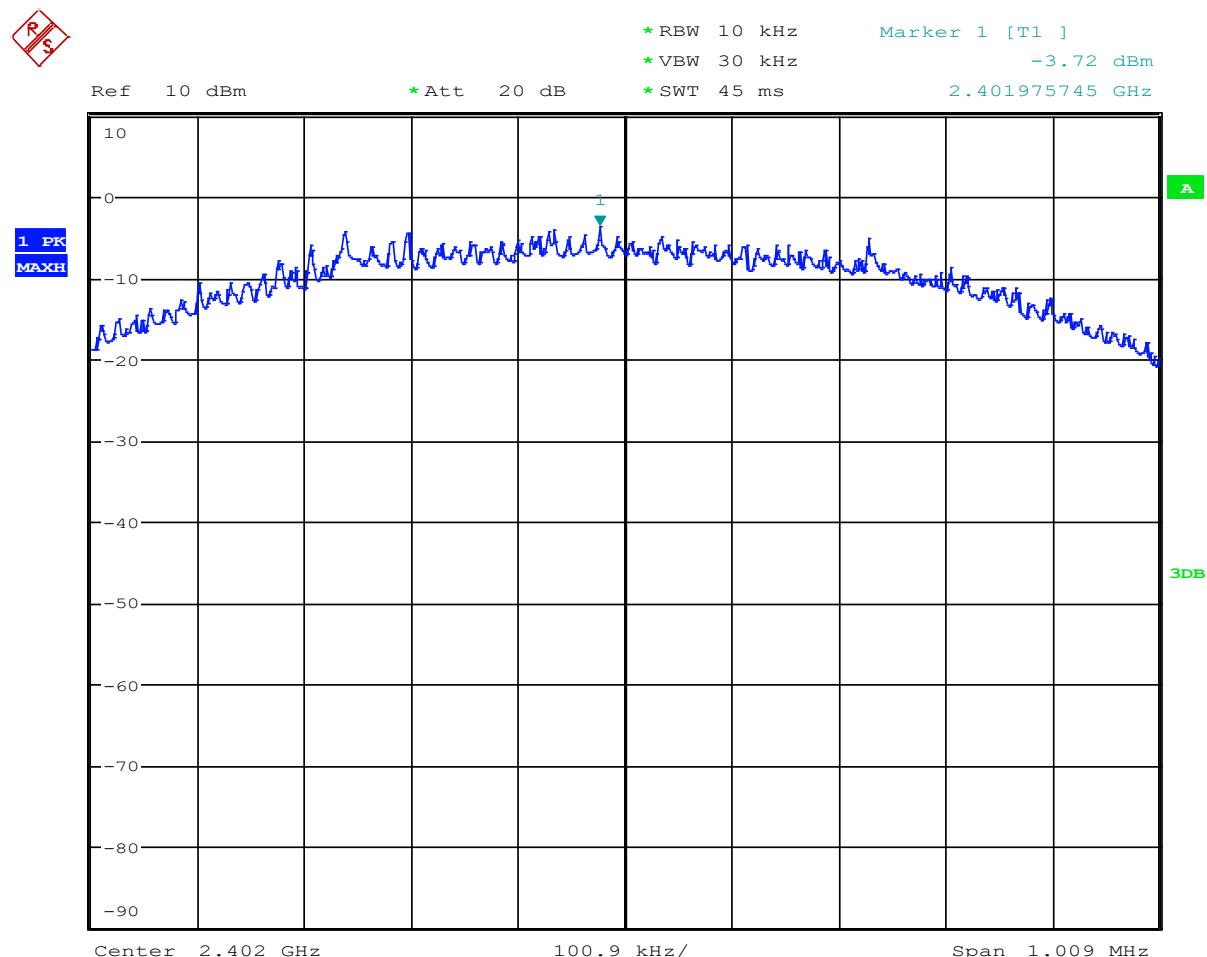
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Test Figure:

### 1. Condition: Low Channel



Date: 6.SEP.2024 15:13:25

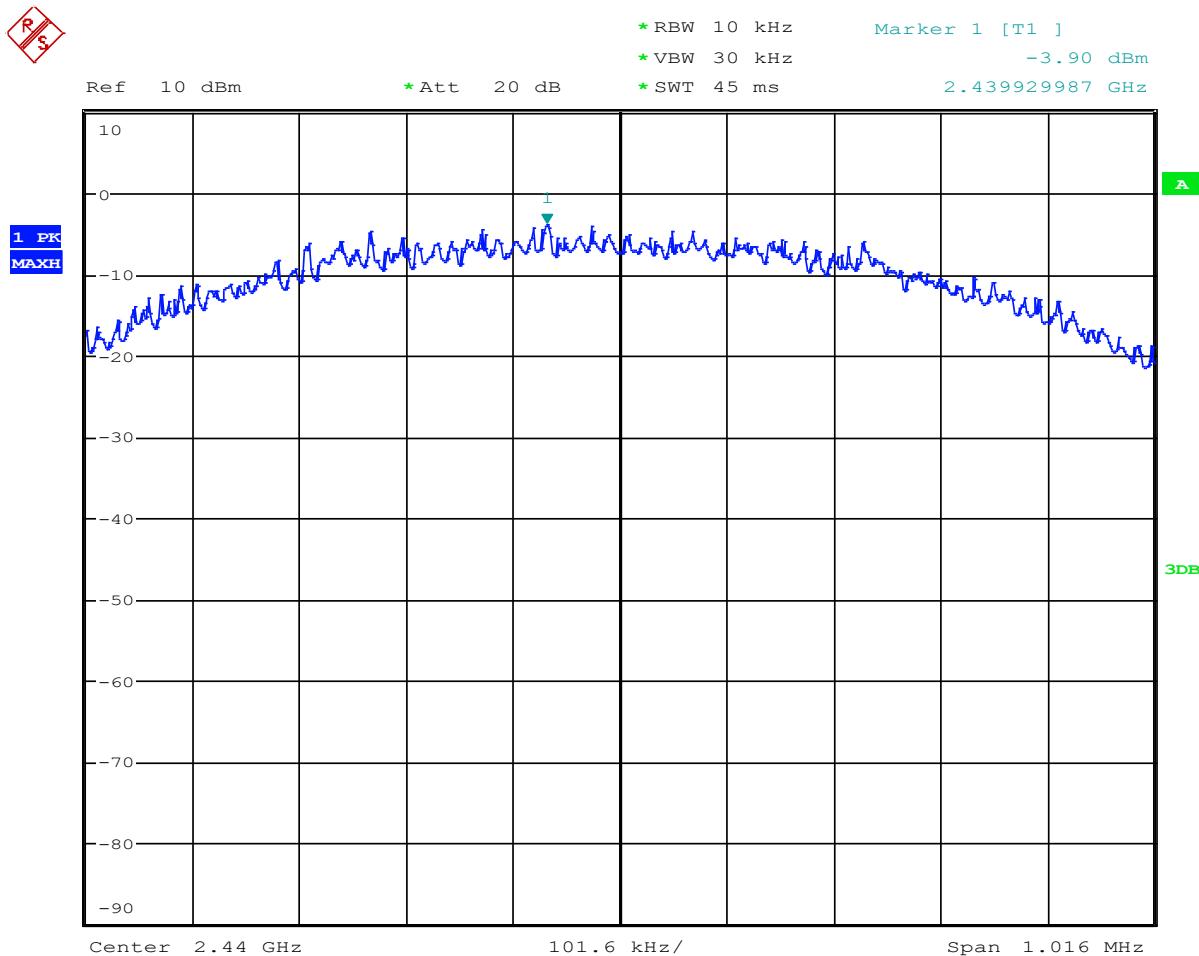
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## 2. Condition: Middle Channel



Date: 6.SEP.2024 15:17:21

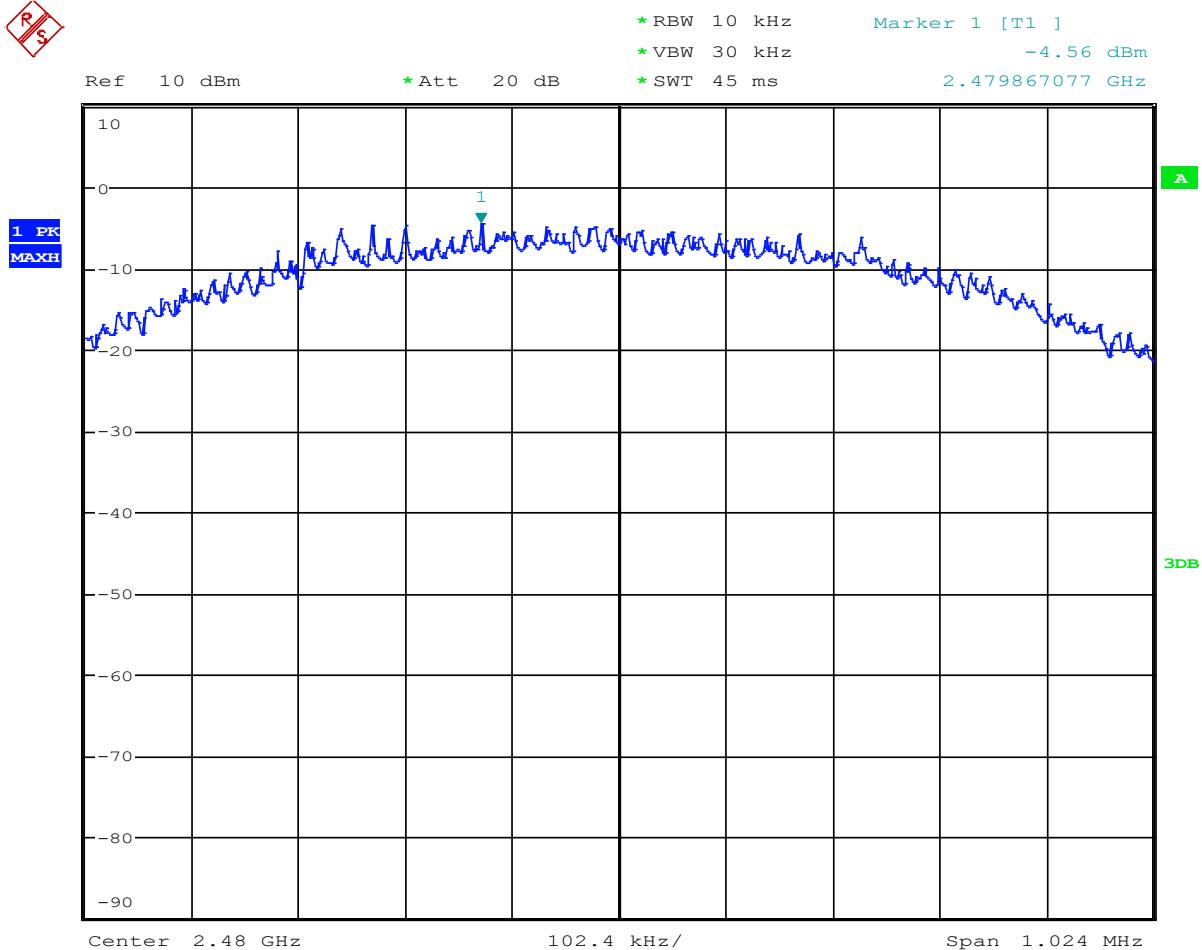
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### 3. High Channel



Date: 6.SEP.2024 15:18:17

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**LE-2M**

EUT		Finder Card		Model		FinderPro Card	
Mode		Keep Transmitting		Input Voltage		DC3.0V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)		Maximum Limit (dBm/3kHz)	Pass/ Fail	
Low	-6.04	0.2	-5.84		8	Pass	
Middle	-6.66	0.2	-6.46		8	Pass	
High	-6.69	0.2	-6.49		8	Pass	

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

The report refers only to the sample tested and does not apply to the bulk.

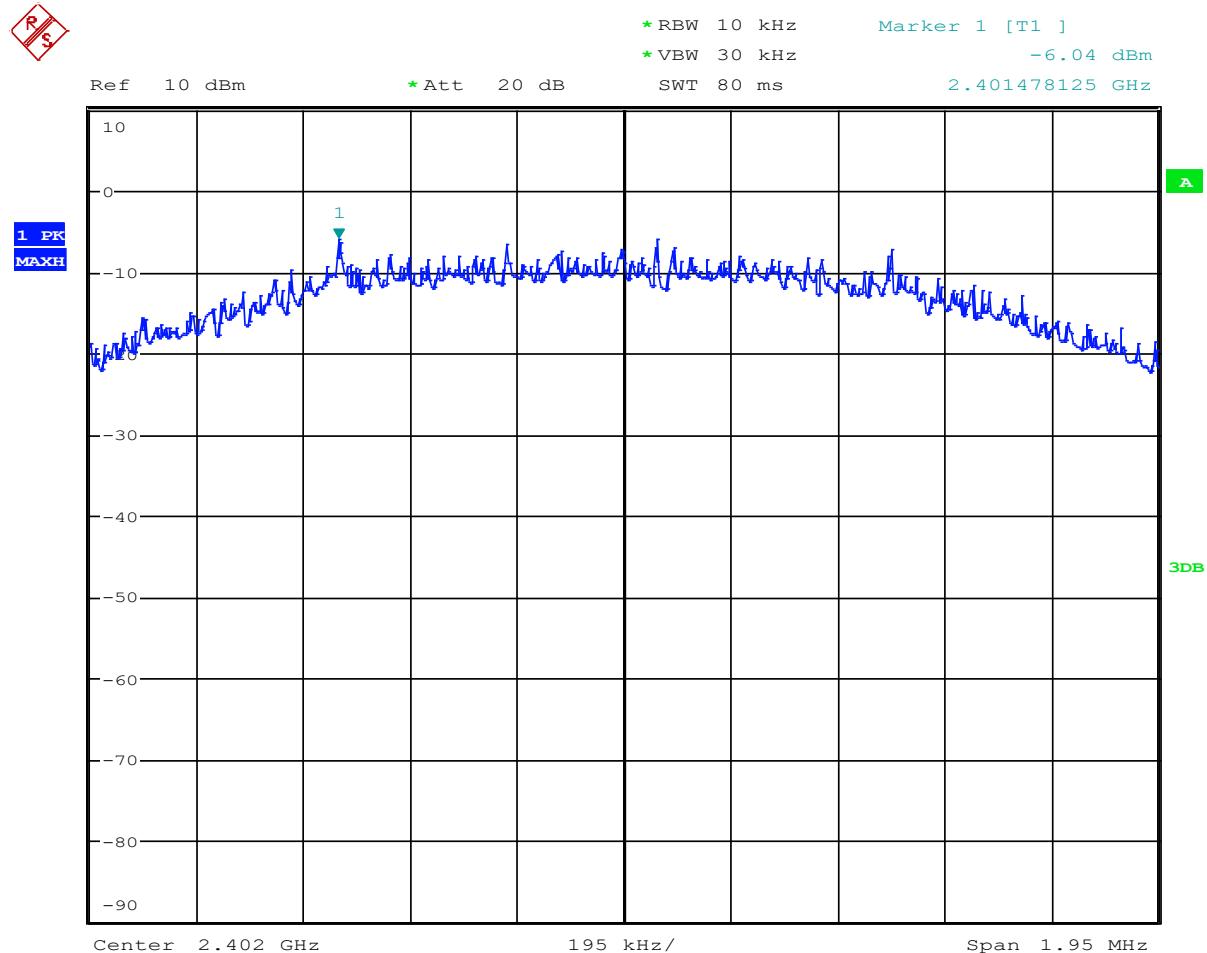
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Test Figure:

### 1. Condition: Low Channel



Date: 6.SEP.2024 15:31:15

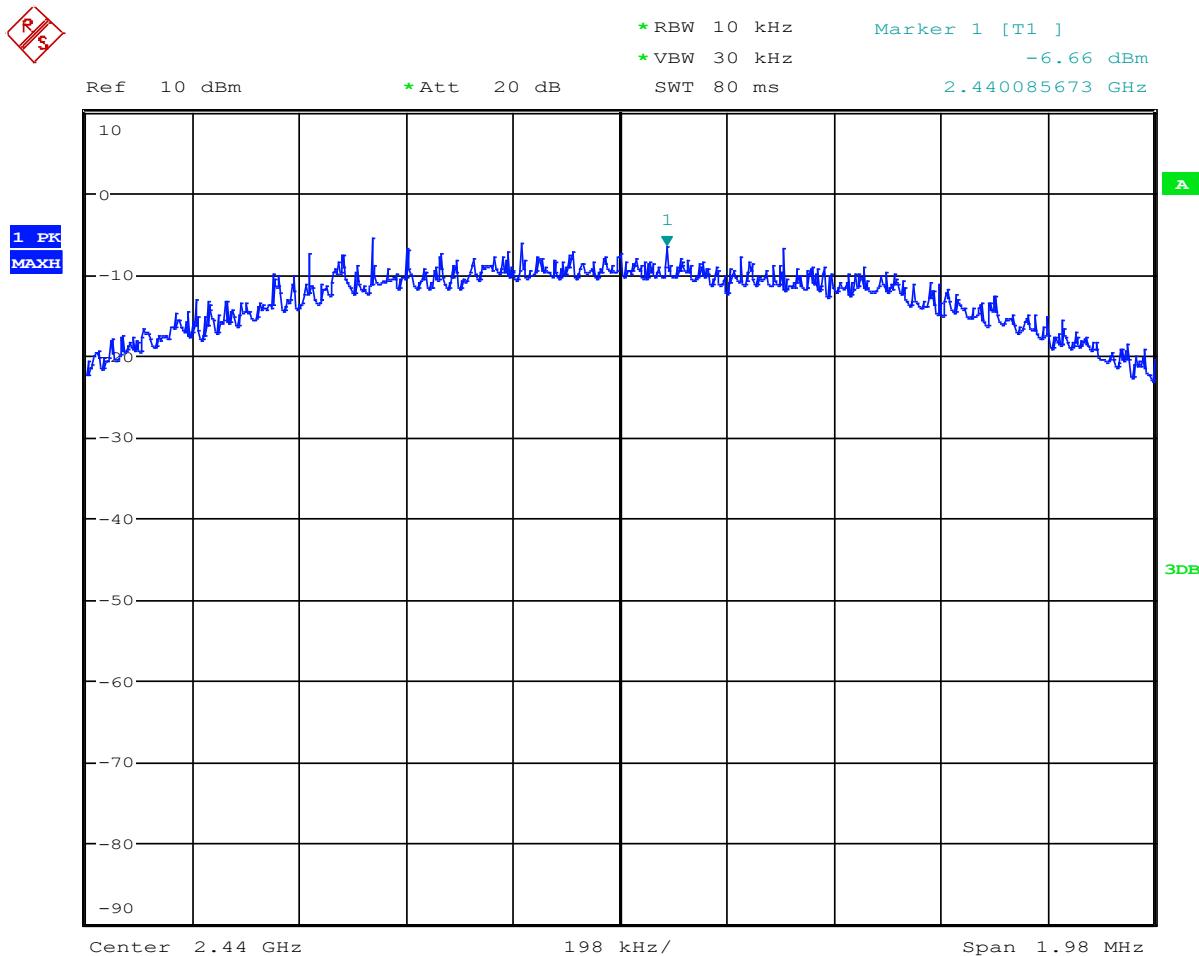
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## 2. Condition: Middle Channel



Date: 6.SEP.2024 15:28:10

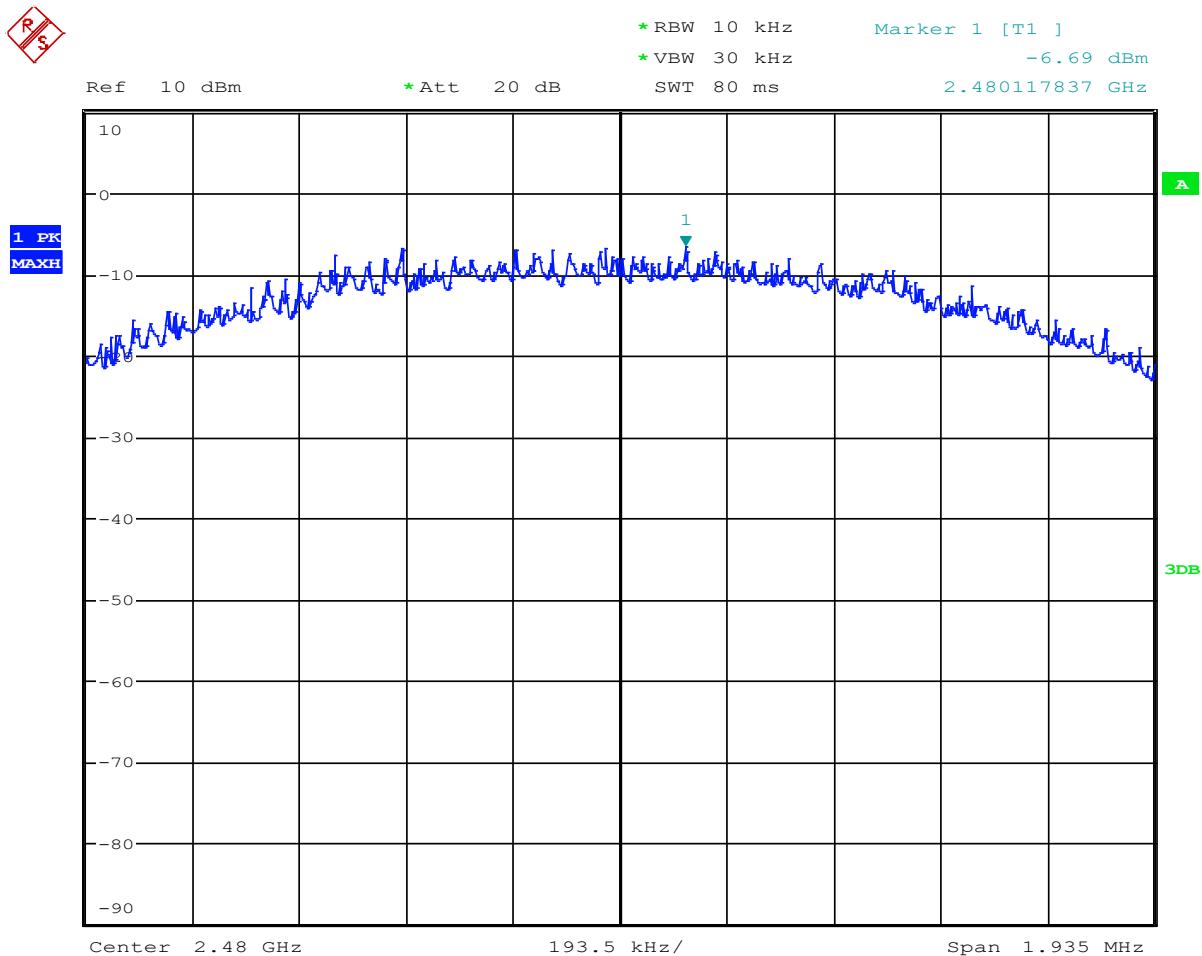
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### 3. High Channel



Date: 6.SEP.2024 15:27:01

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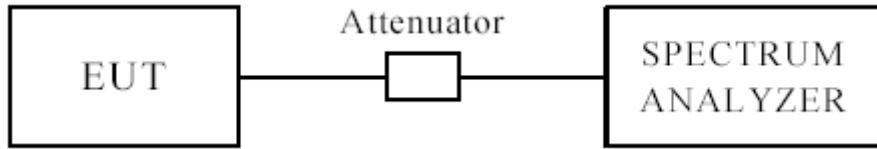
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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



**The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup**

### 10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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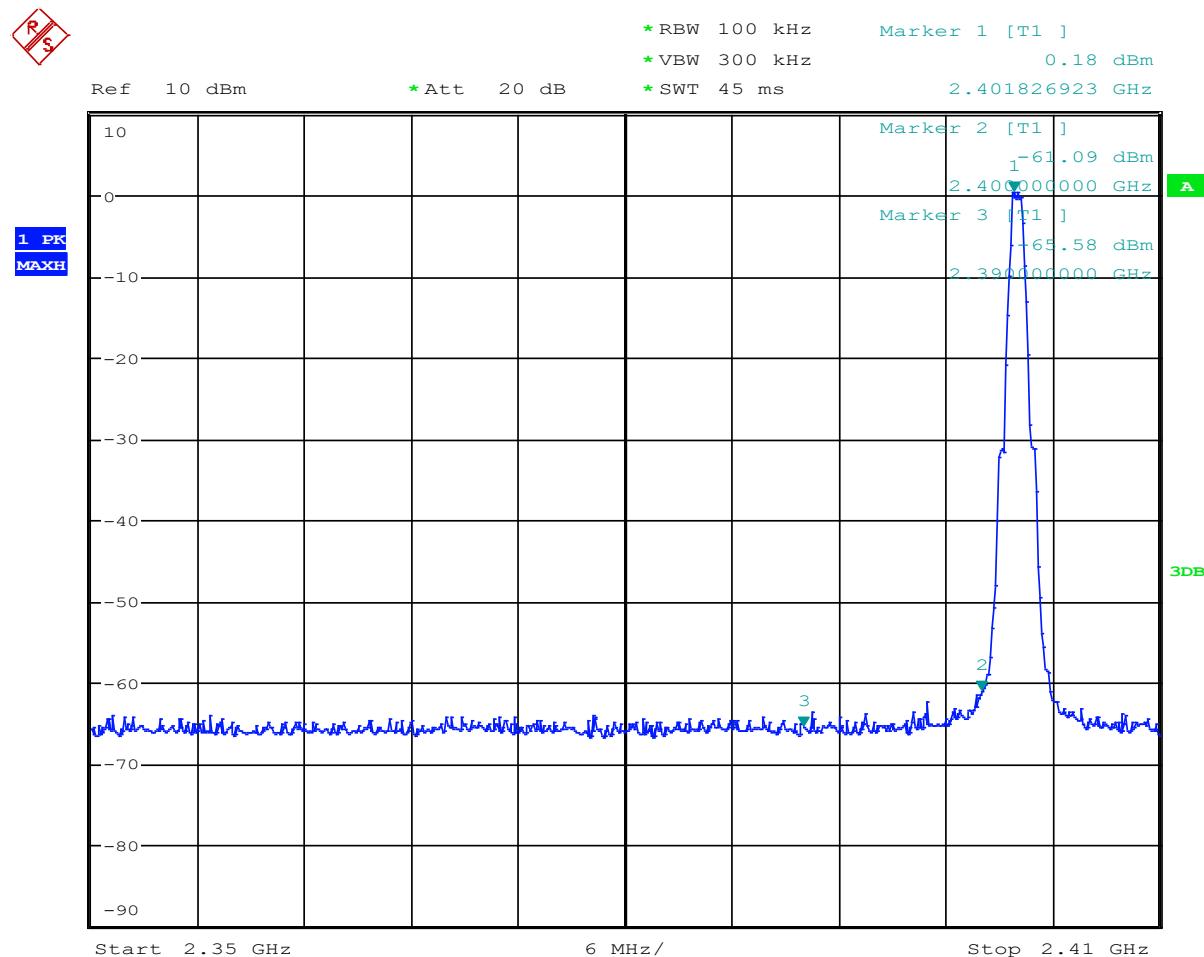


## LE-1M

### 10.4 Band-edge Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### Test Figure:



Date: 6.SEP.2024 15:19:53

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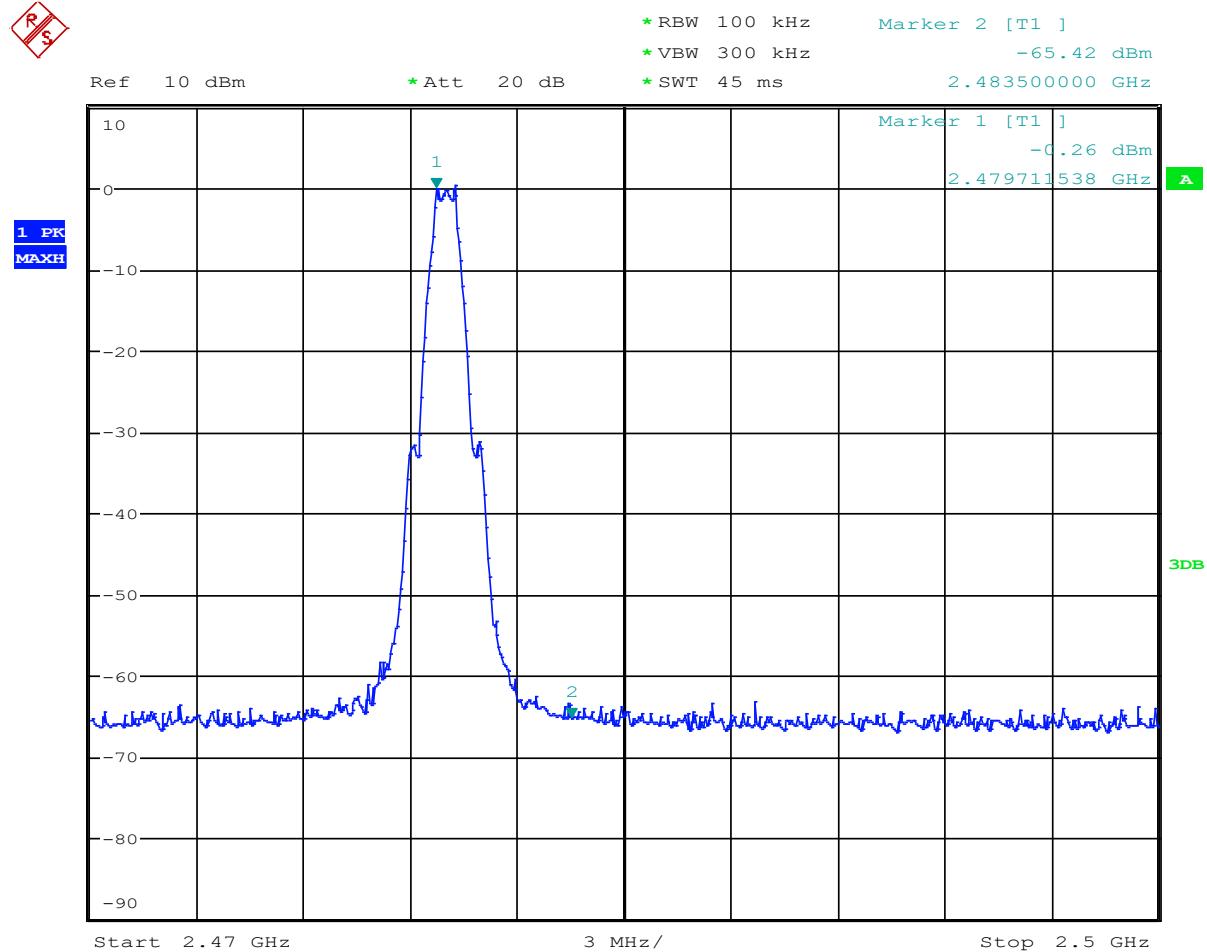


## LE-1M

### 10.4 Band-edge Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keeping Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### Test Figure:



Date: 6.SEP.2024 15:19:06

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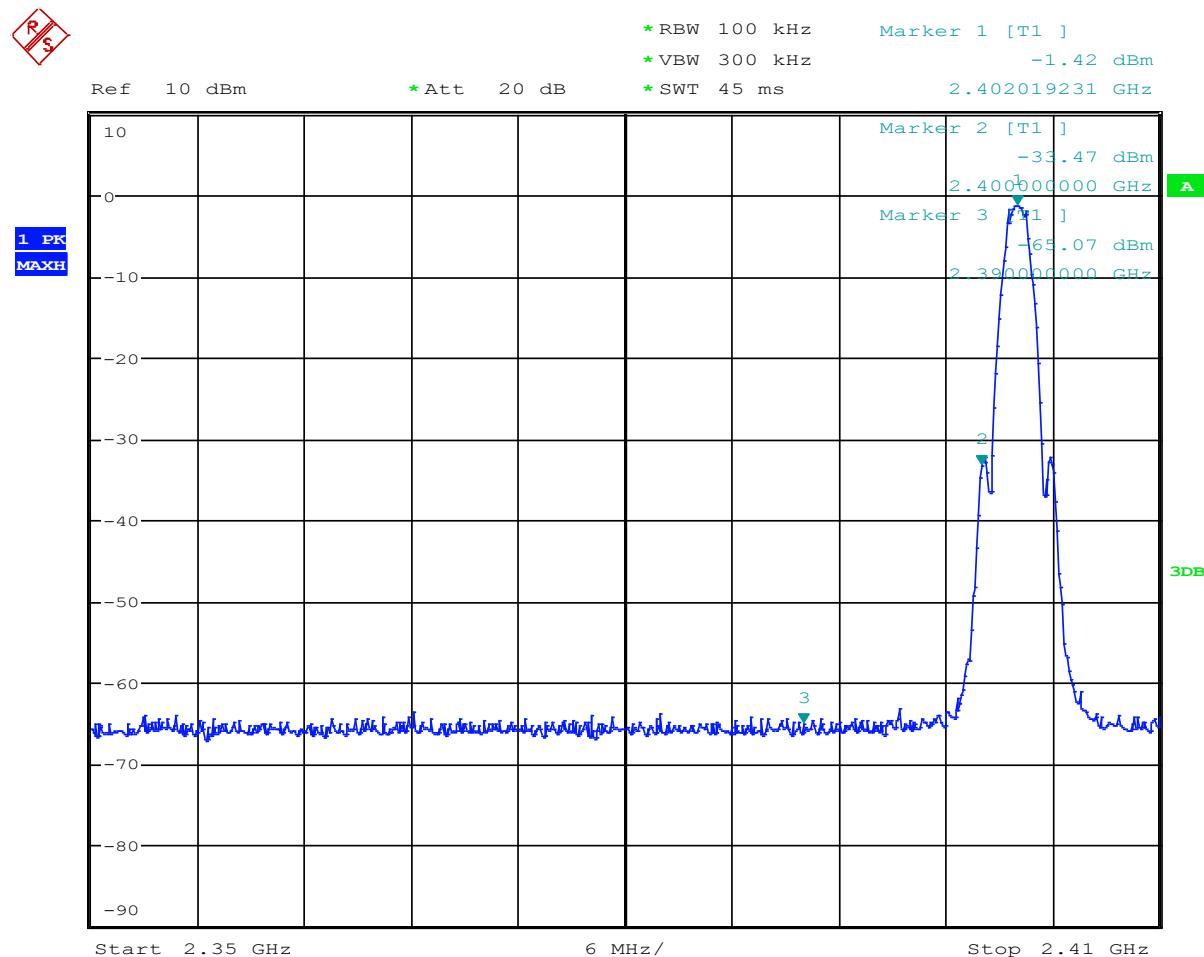
## LE-2M

### 10.4 Band-edge Measurement

Mode: 2M

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### Test Figure:



Date: 6.SEP.2024 15:20:30

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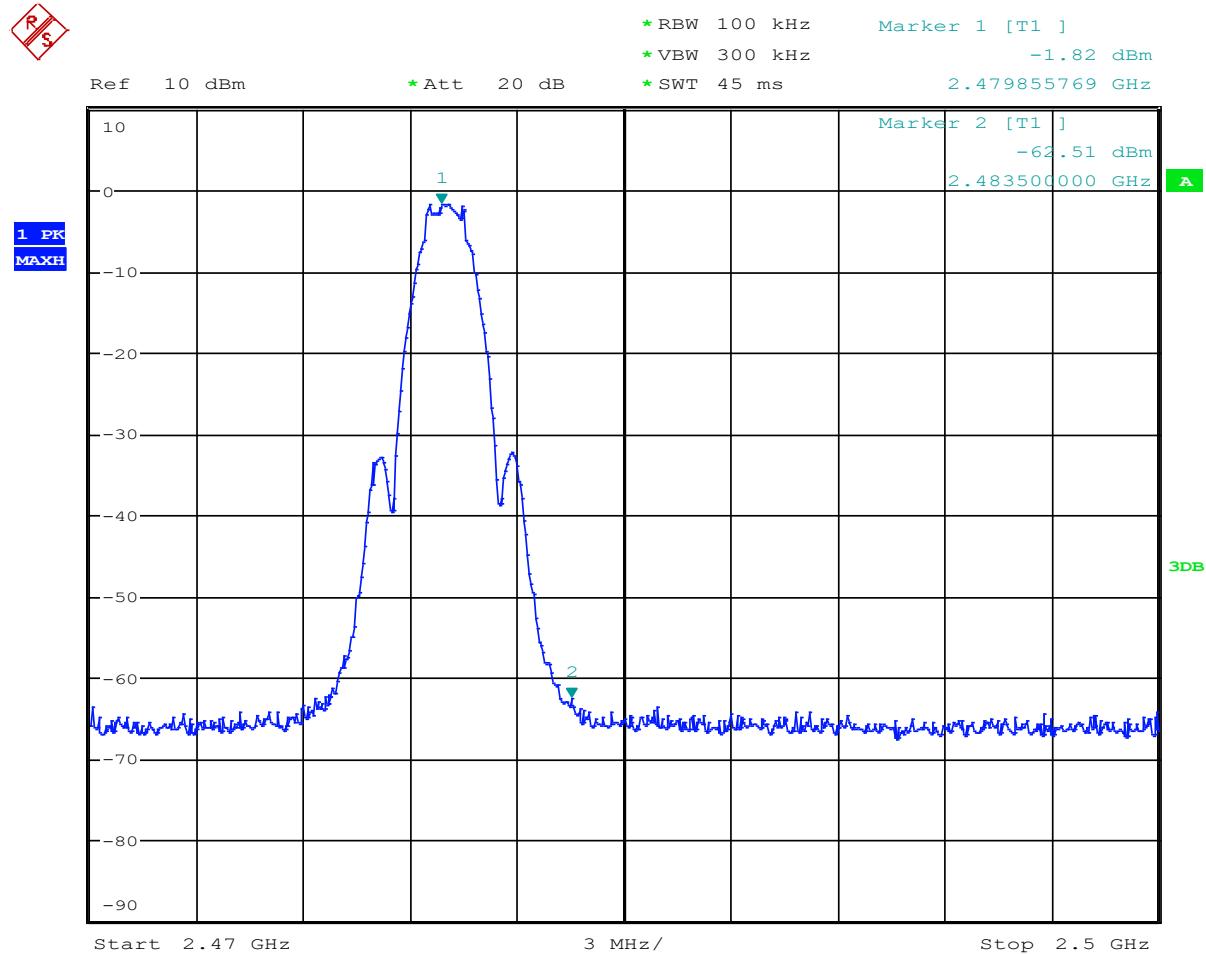
## LE-2M

### 10.4 Band-edge Measurement

Mode: 2M

EUT	Finder Card	Model	FinderPro Card
Mode	Keeping Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### Test Figure:



Date: 6.SEP.2024 15:21:28

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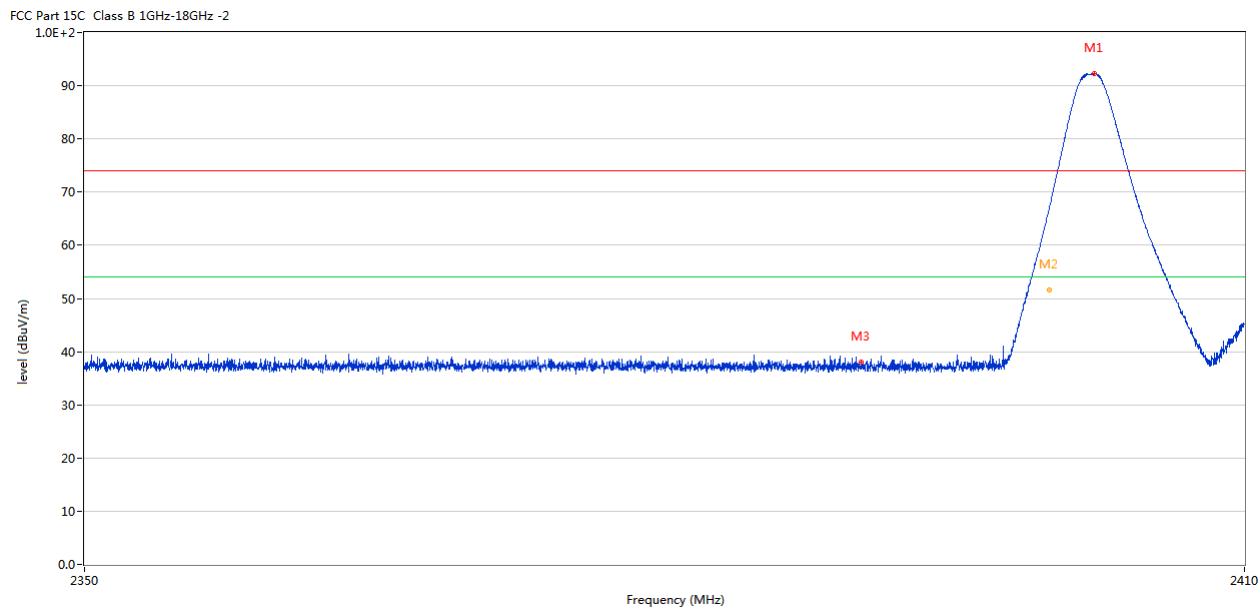
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## LE-1M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.172	92.22	-3.57	74.0	18.22	Peak	93.00	100	Horizontal	N/A
2	2400.070	66.64	-3.57	74.0	-7.36	Peak	93.00	100	Horizontal	Pass
2**	2400.070	51.54	-3.57	54.0	-2.46	AV	93.00	100	Horizontal	Pass
3	2390.010	38.05	-3.53	74.0	-35.95	Peak	133.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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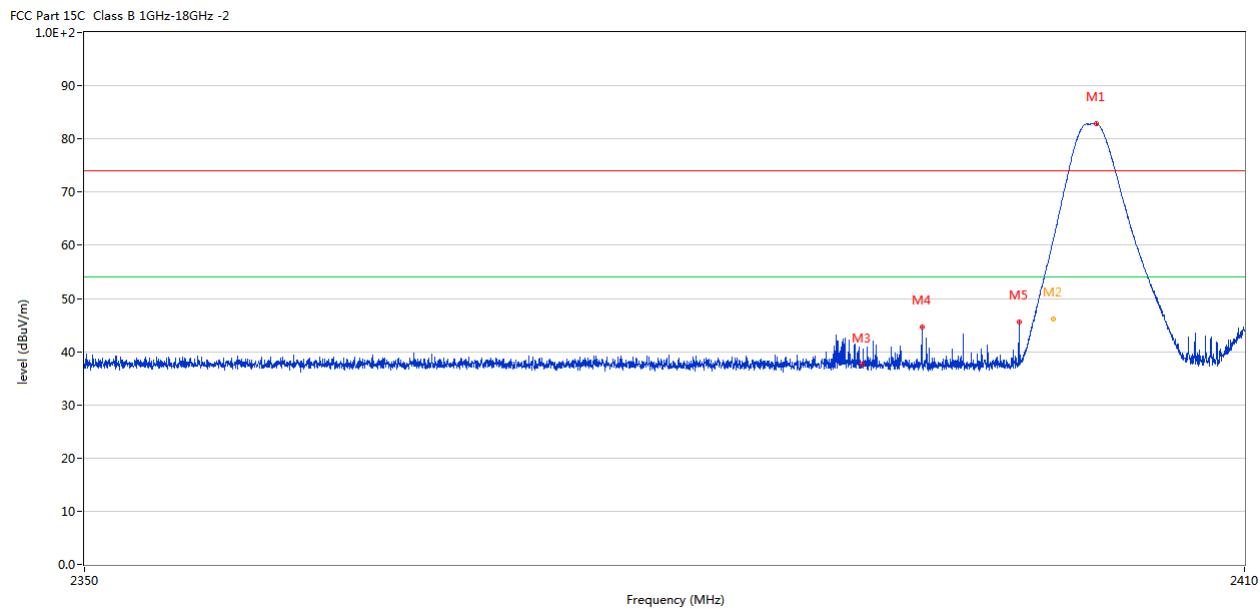
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## LE-1M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.232	82.88	-3.57	74.0	8.88	Peak	55.00	100	Vertical	N/A
2	2400.012	61.27	-3.57	74.0	-12.73	Peak	55.00	100	Vertical	Pass
2**	2400.012	46.09	-3.57	54.0	-7.91	AV	55.00	100	Vertical	Pass
3	2390.055	37.69	-3.53	74.0	-36.31	Peak	155.00	100	Vertical	Pass
4	2393.159	44.69	-3.54	74.0	-29.31	Peak	360.00	100	Vertical	Pass
5	2398.213	45.58	-3.56	74.0	-28.42	Peak	360.00	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.

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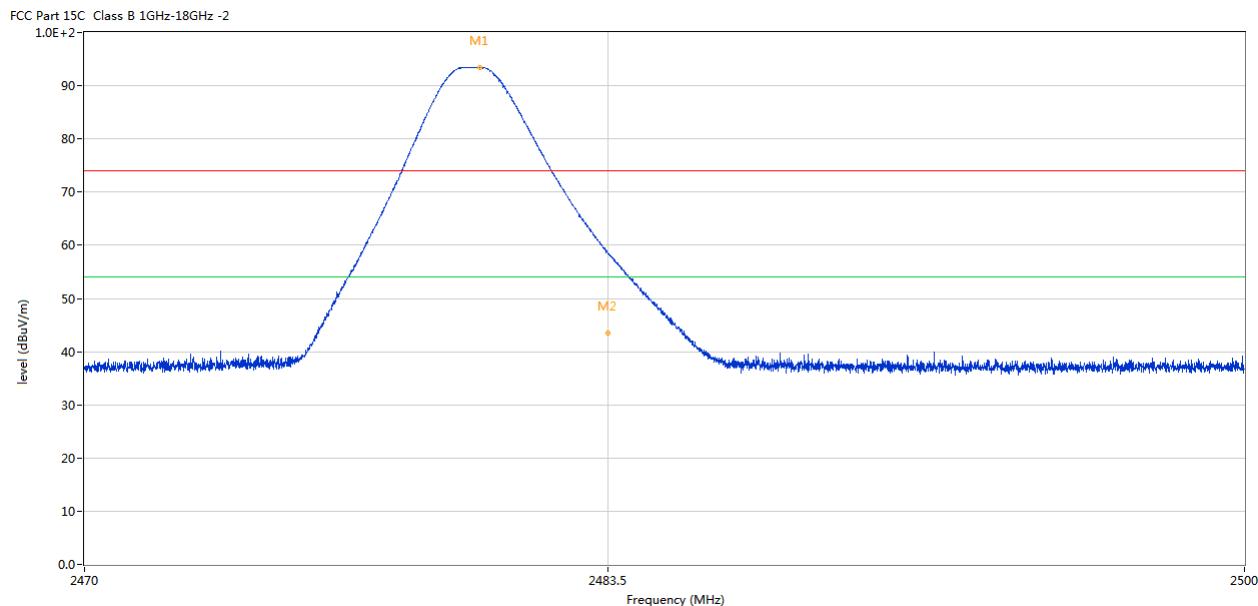
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## LE-1M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.175	93.48	-3.57	74.0	19.48	Peak	286.00	100	Horizontal	N/A
2	2483.500	58.49	-3.57	74.0	-15.51	Peak	286.00	100	Horizontal	Pass
2**	2483.500	43.43	-3.57	54.0	-10.57	AV	286.00	100	Horizontal	Pass

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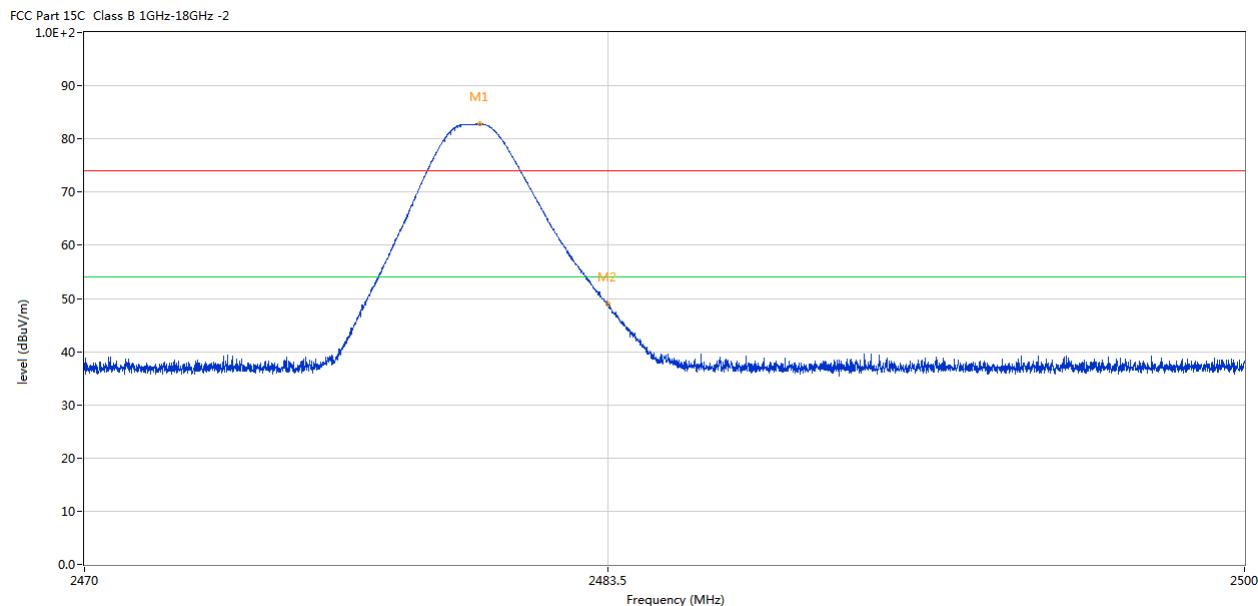
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## LE-1M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.182	82.78	-3.57	74.0	8.78	Peak	49.00	100	Vertical	N/A
2	2483.500	48.92	-3.57	74.0	-25.08	Peak	49.00	100	Vertical	Pass

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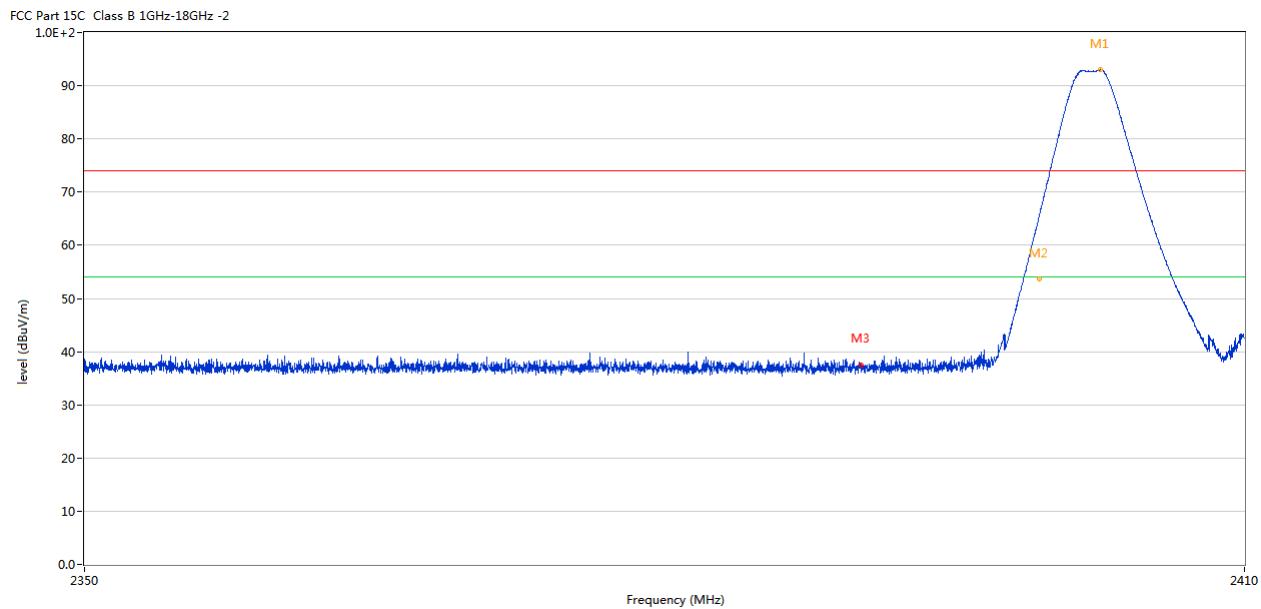
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## LE-2M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.472	93.02	-3.57	74.0	19.02	Peak	279.00	100	Horizontal	N/A
2	2400.040	68.84	-3.57	74.0	-5.16	Peak	279.00	100	Horizontal	Pass
2**	2400.040	53.65	-3.57	54.0	-0.35	AV	279.00	100	Horizontal	Pass
3	2390.010	37.41	-3.53	74.0	-36.59	Peak	360.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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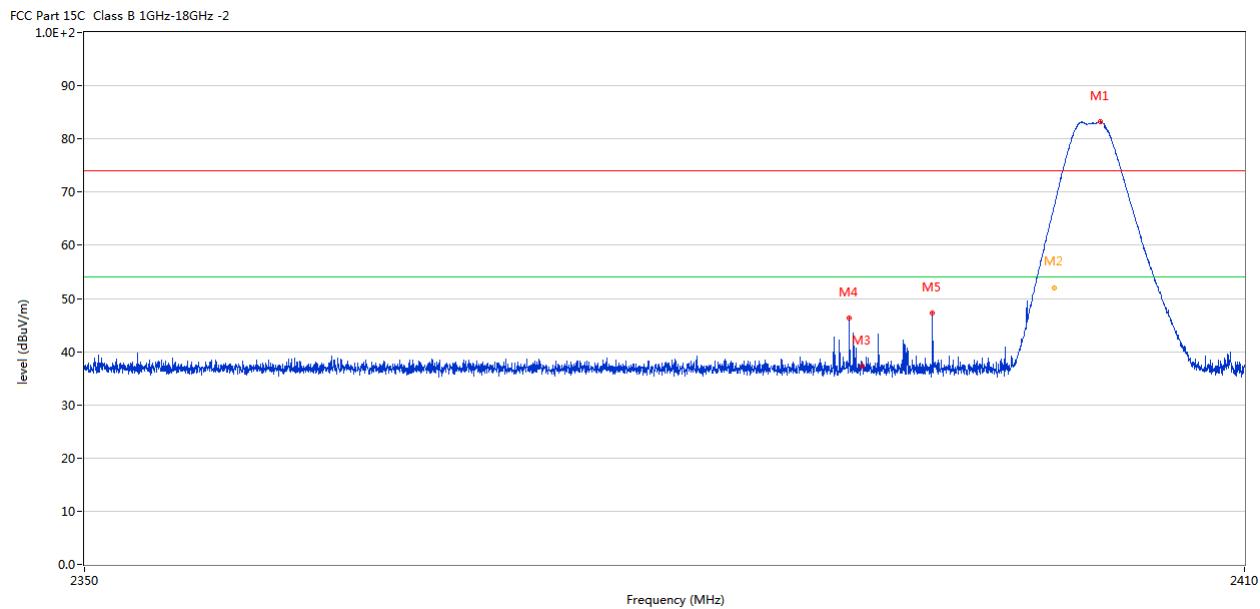
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## LE-2M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.472	83.19	-3.57	74.0	9.19	Peak	30.00	100	Vertical	N/A
2	2400.042	67.16	-3.57	74.0	-6.84	Peak	11.00	100	Vertical	Pass
2**	2400.042	52.06	-3.57	54.0	-1.94	AV	11.00	100	Vertical	Pass
3	2390.040	37.28	-3.53	74.0	-36.72	Peak	30.00	100	Vertical	Pass
4	2389.380	46.31	-3.53	74.0	-27.69	Peak	0.00	100	Vertical	Pass
5	2393.714	47.23	-3.54	74.0	-26.77	Peak	0.00	100	Vertical	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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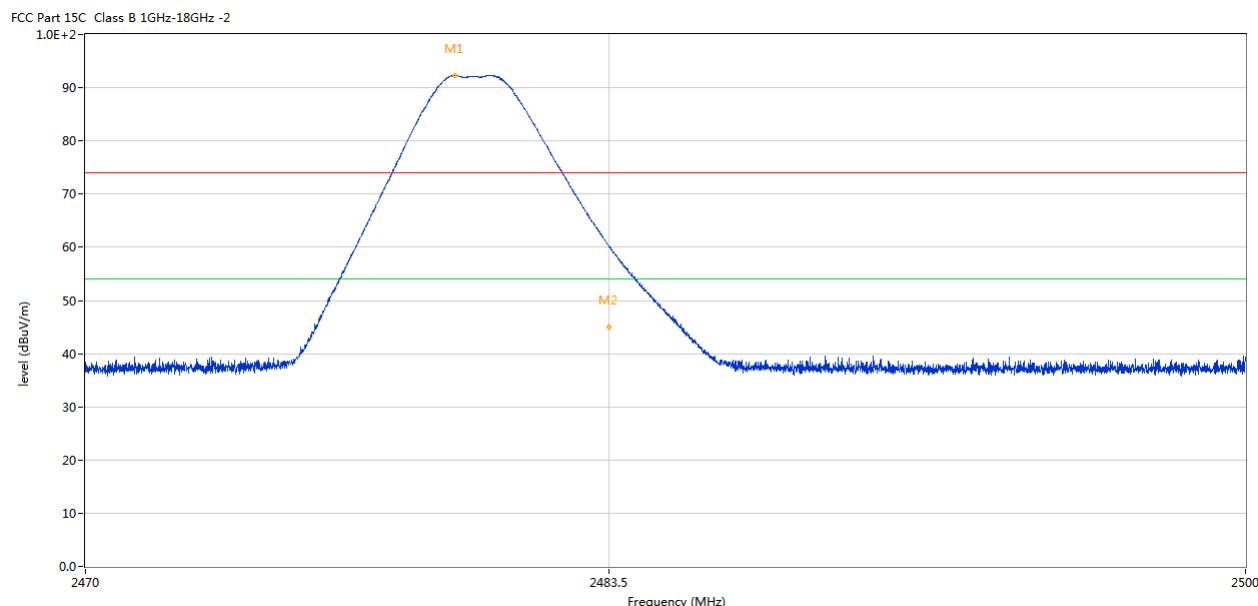
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## LE-2M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.515	92.29	-3.57	74.0	18.29	Peak	288.00	100	Horizontal	N/A
2	2483.500	60.11	-3.57	74.0	-13.89	Peak	272.57	100	Horizontal	Pass
2**	2483.500	44.98	-3.57	54.0	-9.02	AV	272.57	100	Horizontal	Pass

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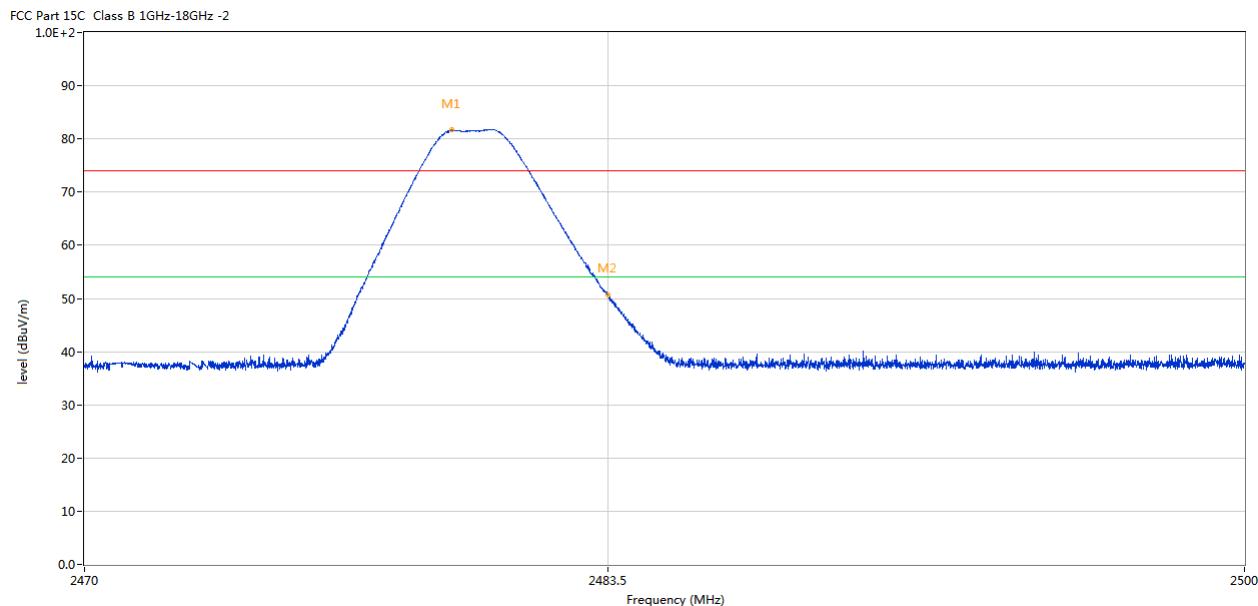
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## LE-2M

### 10.4 Restrict Band Measurement

EUT	Finder Card	Model	FinderPro Card
Mode	Keep Transmitting	Input Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.463	81.71	-3.57	74.0	7.71	Peak	46.00	100	Vertical	N/A
2	2483.500	50.68	-3.57	74.0	-23.32	Peak	46.00	100	Vertical	Pass

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## 11.0 Antenna Requirement

### 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

### 11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is 0.73dBi (Get from the antenna test report)

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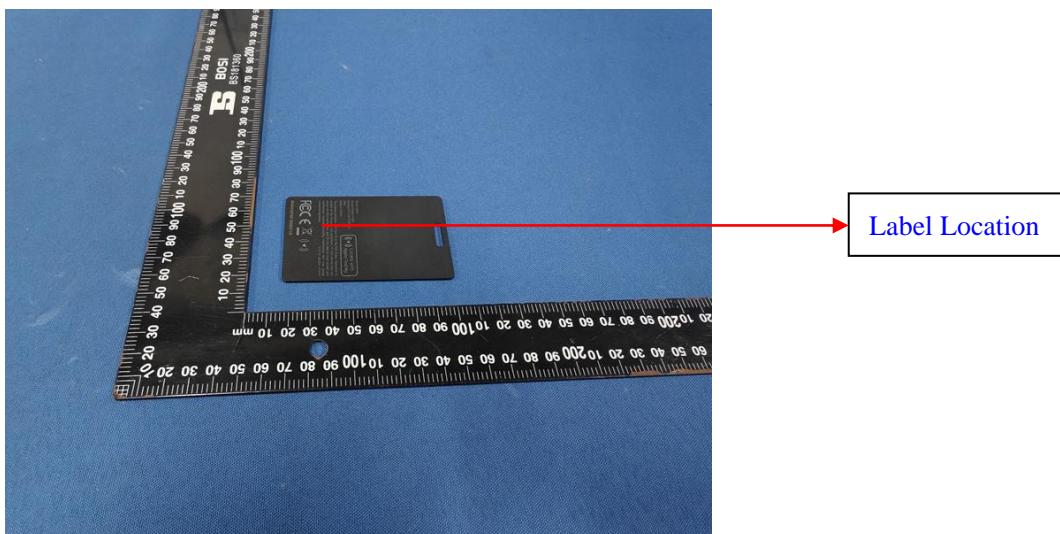
## 12.0 FCC ID Label

### FCC ID: 2BKKP-MFM06

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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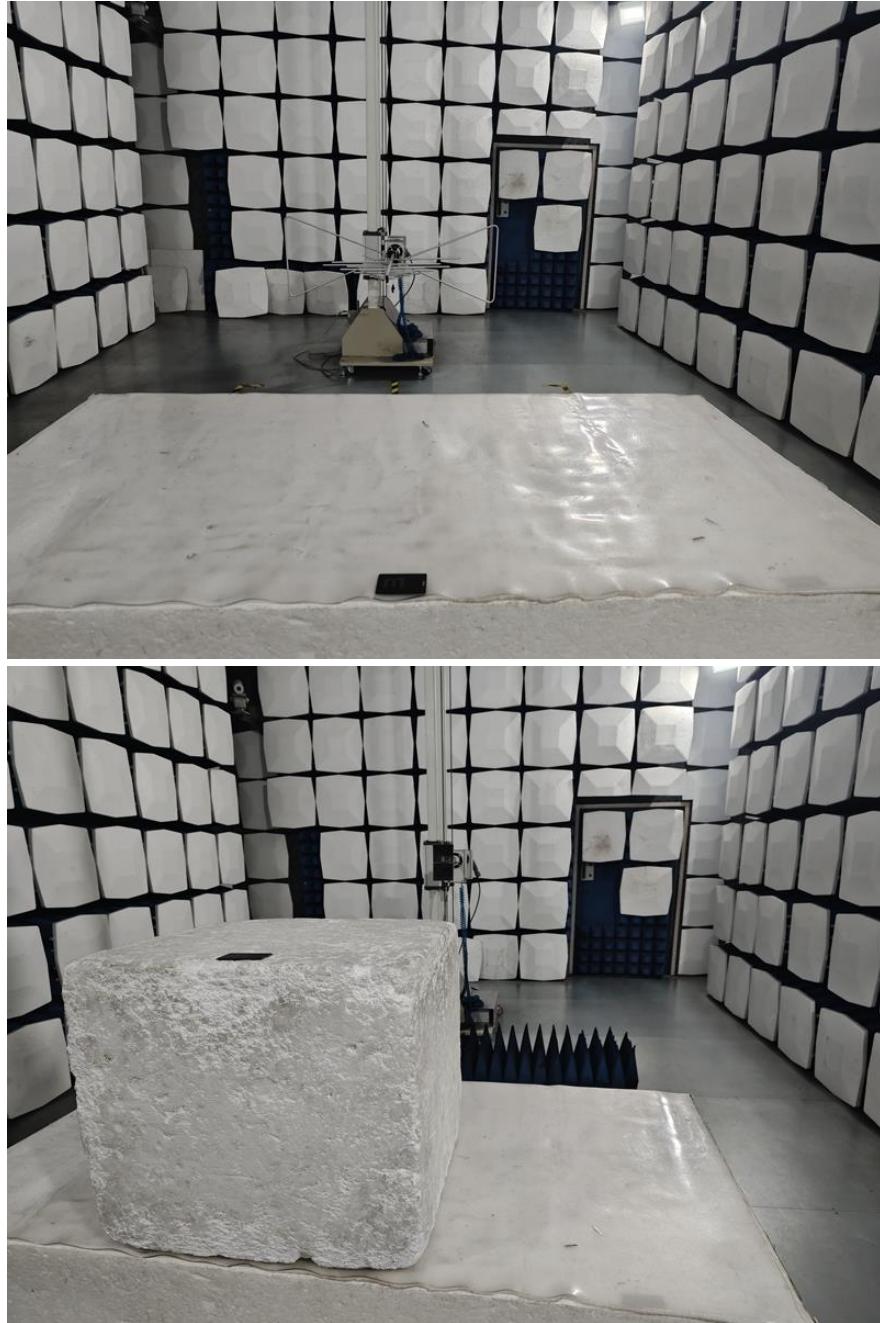


### 13.0 Photo of testing

Conducted Emission Test Setup:

N/A

Radiated Emission Test Setup:



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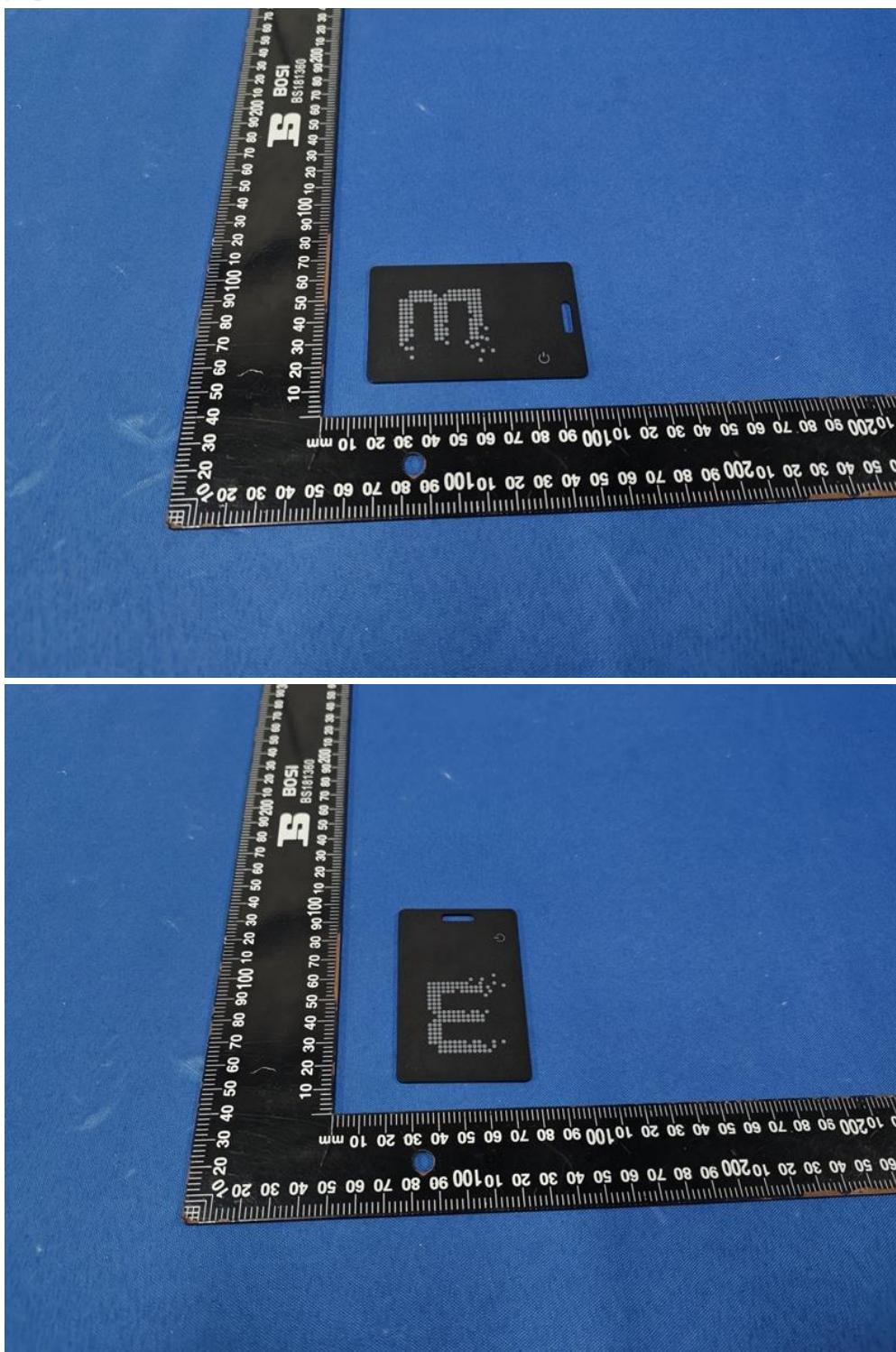
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Photographs – EUT

Outside View



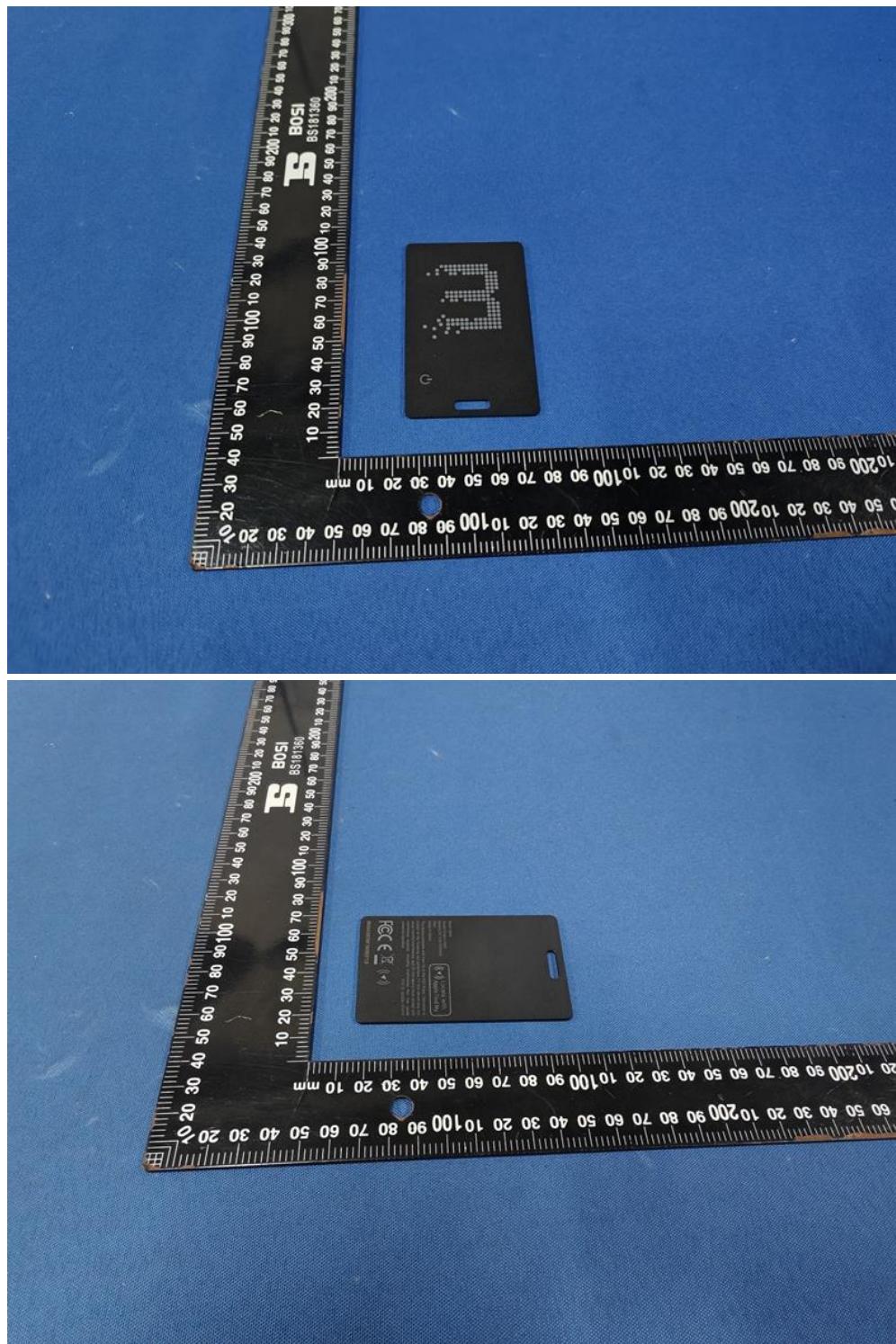
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Outside View



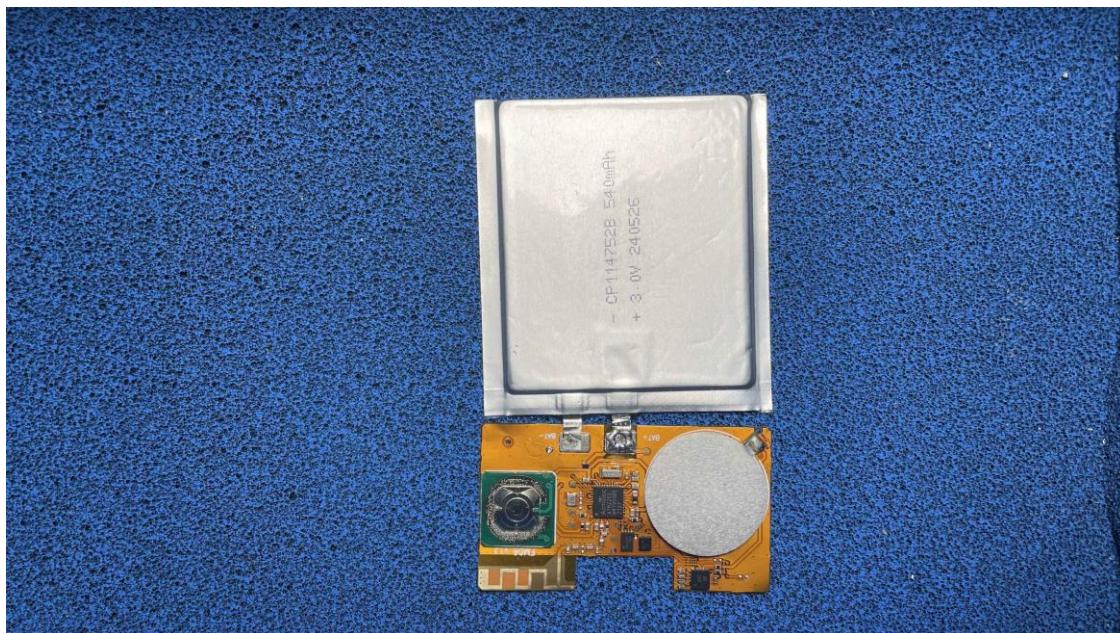
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Inside View



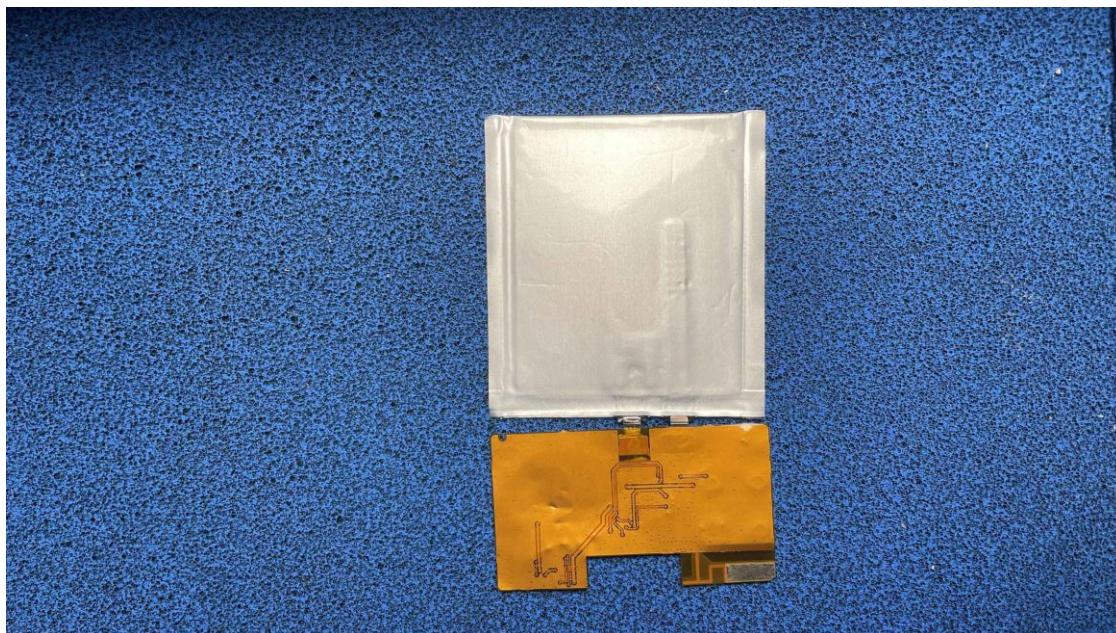
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Inside View



**End of the report**

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