



Report No.: TWN2605466E

Applicant: Chongqing Janxin Intelligent Instruments Co., Ltd.

Product: Bluetooth module

Model No.: B113A-015-BLUE

Trademark: N/A

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: May 26, 2026



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

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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.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED 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

FCC Designation Number: CN1251

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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: Chongqing Janxin Intelligent Instruments Co., Ltd.
Address: Xianfeng Industrial Zone, Xianfeng Town, Jiangjin District, Chongqing, China

1.3 Description of EUT

Product: Bluetooth module
Manufacturer: Chongqing Janxin Intelligent Instruments Co., Ltd.
Address: Xianfeng Industrial Zone, Xianfeng Town, Jiangjin District, Chongqing, China
Trademark: N/A
Additional Trademark: N/A
Model Number: B113A-015-BLUE
Additional Model Number: N/A
Hardware Version: Rev1.0
Software Version: Rev1.0
Serial No.: 202605130001
Type of Modulation: GFSK (Bluetooth Low Energy)
Frequency range: 2402-2480MHz
Channel Separation: 2MHz
Channel Number: 40
Rating: DC1.7V~3.6V, Typical DC3.3V
Antenna: Dipole Antenna with revers polarity antenna connector. The gain of the antennas is 4.13dBi (Get from the antenna specification provided the manufacturer)
Alternative Antenna: FPC Antenna with revers polarity antenna connector. The gain of the antennas is 3.97dBi (Get from the antenna specification provided the manufacturer)

1.4 Submitted Sample: 4 Samples

1.5 Test Duration

2026-05-13 to 2026-05-26

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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%

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

Print Name: Andy Xing

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	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

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

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

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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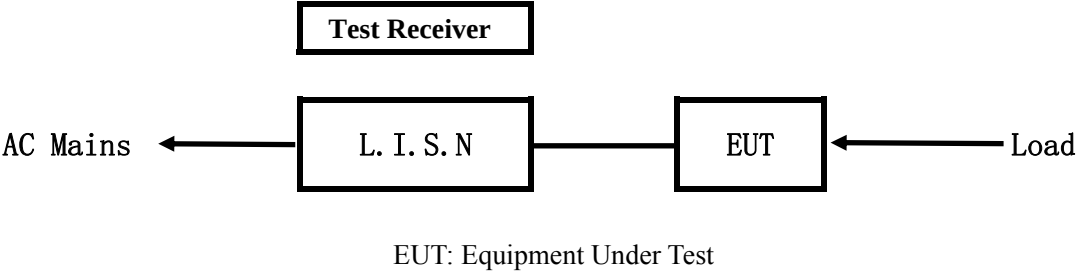
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

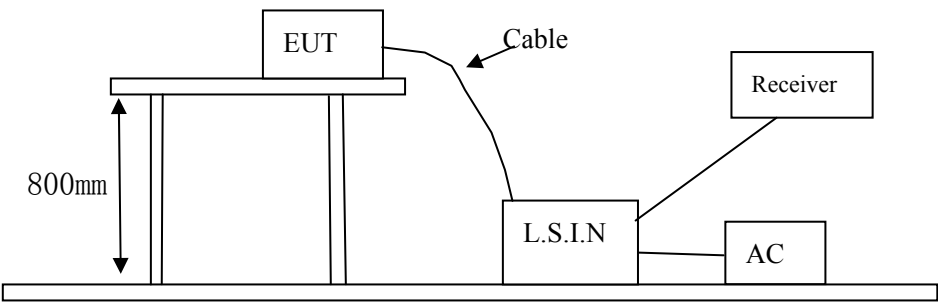


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Bluetooth module	Chongqing Janxin Intelligent Instruments Co., Ltd.	B113A-015-BLUE	2BBZS-B113015BL

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
AC ADAPTER	HP	TPN-LA23	Input: 100-240V~, 1.6A, 50-60Hz; Output: DC5V, 3A, 15W/ DC9V, 3A/ DC12V, 5A/ DC15V, 4.33A/ DC20V, 3.25A, 65W
PC	ThinkPad	R4	Input: DC19.5V, 2.31A
PC	HP	HSN-Q38C-4	Input: DC20V, 3.25A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

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 μ 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.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

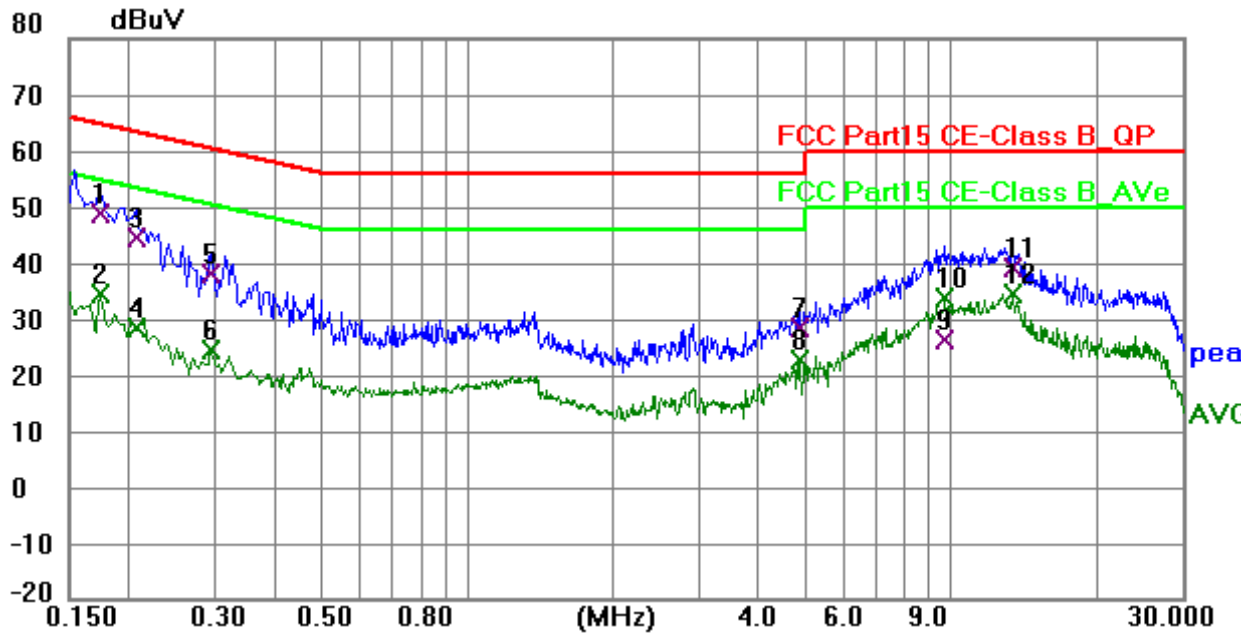
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1740	38.77	10.14	48.91	64.77	-15.86	QP	P
2	0.1740	24.26	10.14	34.40	54.77	-20.37	AVG	P
3	0.2060	34.18	10.13	44.31	63.37	-19.06	QP	P
4	0.2060	18.36	10.13	28.49	53.37	-24.88	AVG	P
5	0.2940	27.84	10.20	38.04	60.41	-22.37	QP	P
6	0.2940	14.15	10.20	24.35	50.41	-26.06	AVG	P
7	4.8620	18.14	10.25	28.39	56.00	-27.61	QP	P
8	4.8620	12.44	10.25	22.69	46.00	-23.31	AVG	P
9	9.7260	15.81	10.35	26.16	60.00	-33.84	QP	P
10	9.7260	23.45	10.35	33.80	50.00	-16.20	AVG	P
11	13.3780	28.70	10.41	39.11	60.00	-20.89	QP	P
12	13.3780	23.93	10.41	34.34	50.00	-15.66	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

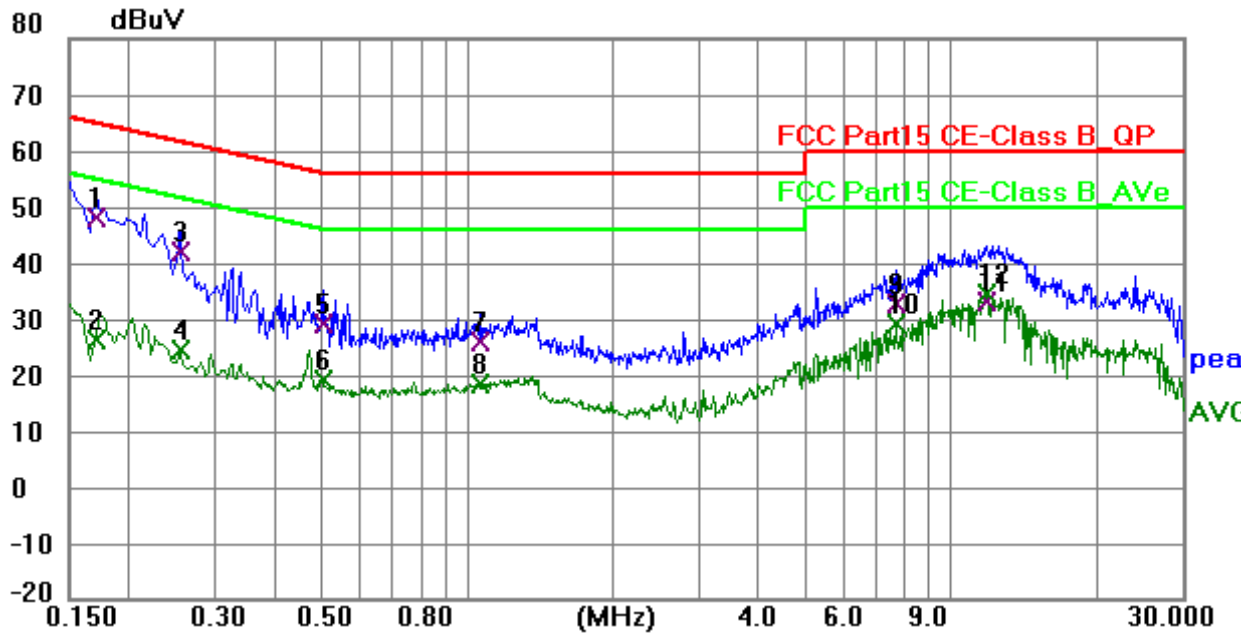
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1700	37.79	10.14	47.93	64.96	-17.03	QP	P
2	0.1700	16.12	10.14	26.26	54.96	-28.70	AVG	P
3	0.2540	31.79	10.17	41.96	61.63	-19.67	QP	P
4	0.2540	14.20	10.17	24.37	51.63	-27.26	AVG	P
5	0.5020	18.78	10.38	29.16	56.00	-26.84	QP	P
6	0.5020	8.56	10.38	18.94	46.00	-27.06	AVG	P
7	1.0700	15.36	10.38	25.74	56.00	-30.26	QP	P
8	1.0700	7.86	10.38	18.24	46.00	-27.76	AVG	P
9	7.6580	22.59	10.24	32.83	60.00	-27.17	QP	P
10	7.6580	18.73	10.24	28.97	50.00	-21.03	AVG	P
11	11.8100	22.82	10.39	33.21	60.00	-26.79	QP	P
12	11.8100	23.91	10.39	34.30	50.00	-15.70	AVG	P

Note: Margin=Reading level+ Factor–Limit

Factor=LISN Factor + Cable Factor

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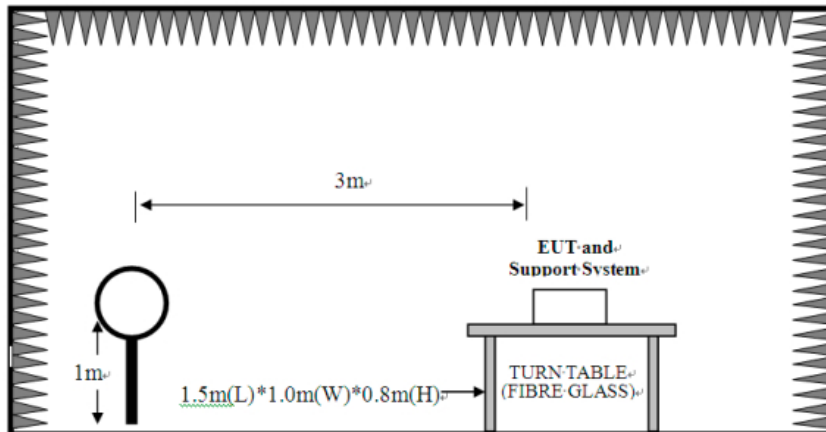
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. 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 C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (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



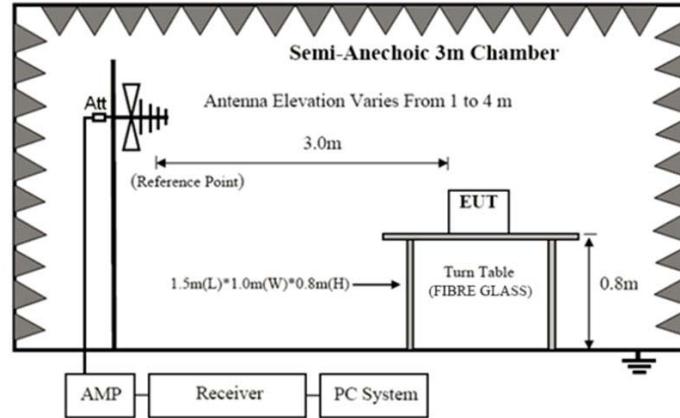
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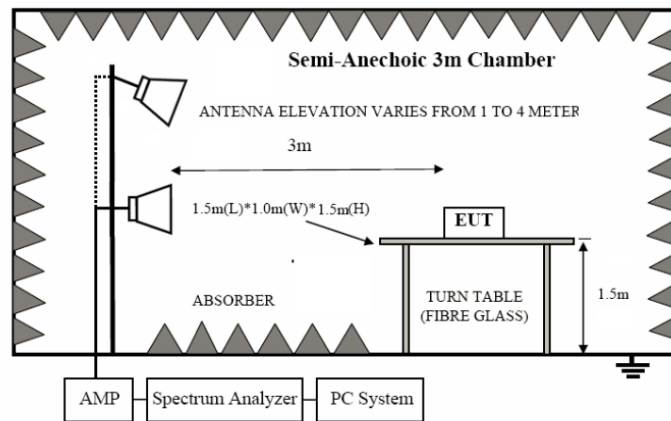
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For radiated emissions from 30MHz to 1GHz



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 μ V/m)
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 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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
 5. For radiation emissions from 30MHz to 1000MHz, Worse cases were recorded in the test report. BLE-1M was the worst case.
 6. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (2440MHz) was the worst case.

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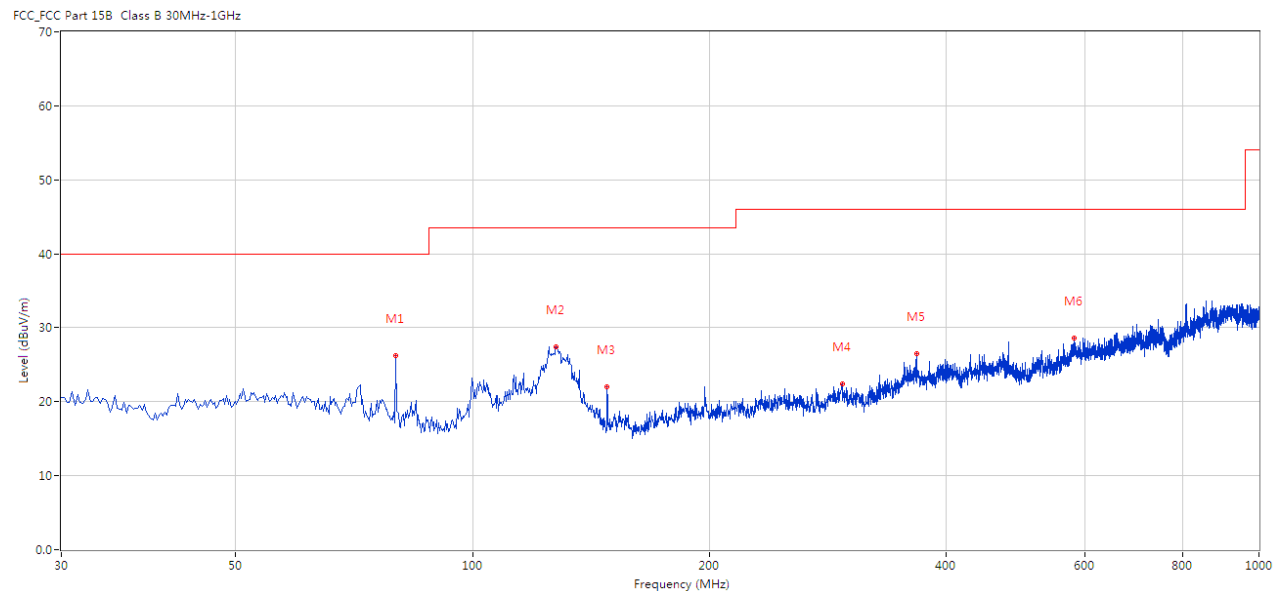
Dipole Antenna

Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep Bluetooth Transmitting
Test Channel: Middle (2440MHz)
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	79.943	26.27	-13.26	40.0	13.73	Peak	360.00	100	Horizontal	Pass
2	127.703	27.48	-11.01	43.5	16.02	Peak	330.00	100	Horizontal	Pass
3	148.310	22.07	-13.52	43.5	21.43	Peak	166.00	100	Horizontal	Pass
4	294.986	22.46	-7.38	46.0	23.54	Peak	244.00	100	Horizontal	Pass
5	366.748	26.44	-4.94	46.0	19.56	Peak	254.00	100	Horizontal	Pass
6	582.277	28.58	-1.72	46.0	17.42	Peak	248.00	100	Horizontal	Pass

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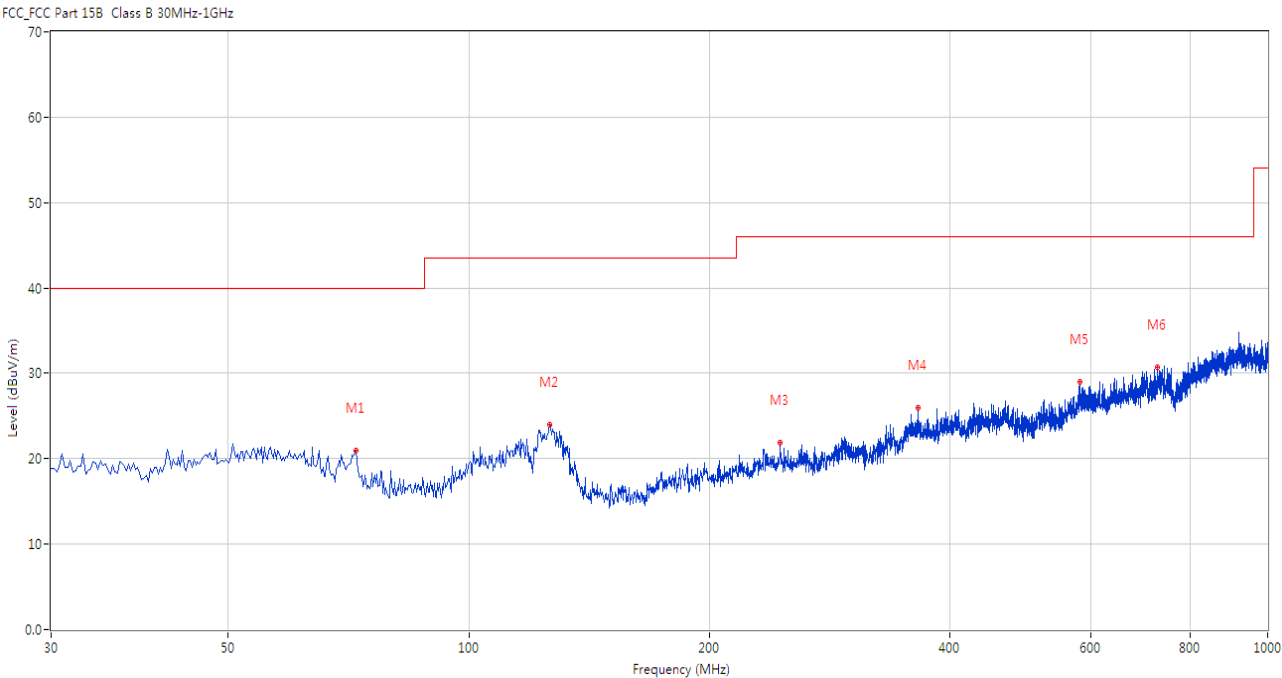


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2440MHz)
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	72.184	20.96	-11.39	40.0	19.04	Peak	188.00	100	Vertical	Pass
2	126.248	24.00	-11.72	43.5	19.50	Peak	264.00	100	Vertical	Pass
3	245.286	21.86	-8.83	46.0	24.14	Peak	280.00	100	Vertical	Pass
4	364.809	25.96	-4.92	46.0	20.04	Peak	7.00	100	Vertical	Pass
5	582.034	28.98	-1.70	46.0	17.02	Peak	315.00	100	Vertical	Pass
6	727.498	30.77	-0.33	46.0	15.23	Peak	303.00	100	Vertical	Pass

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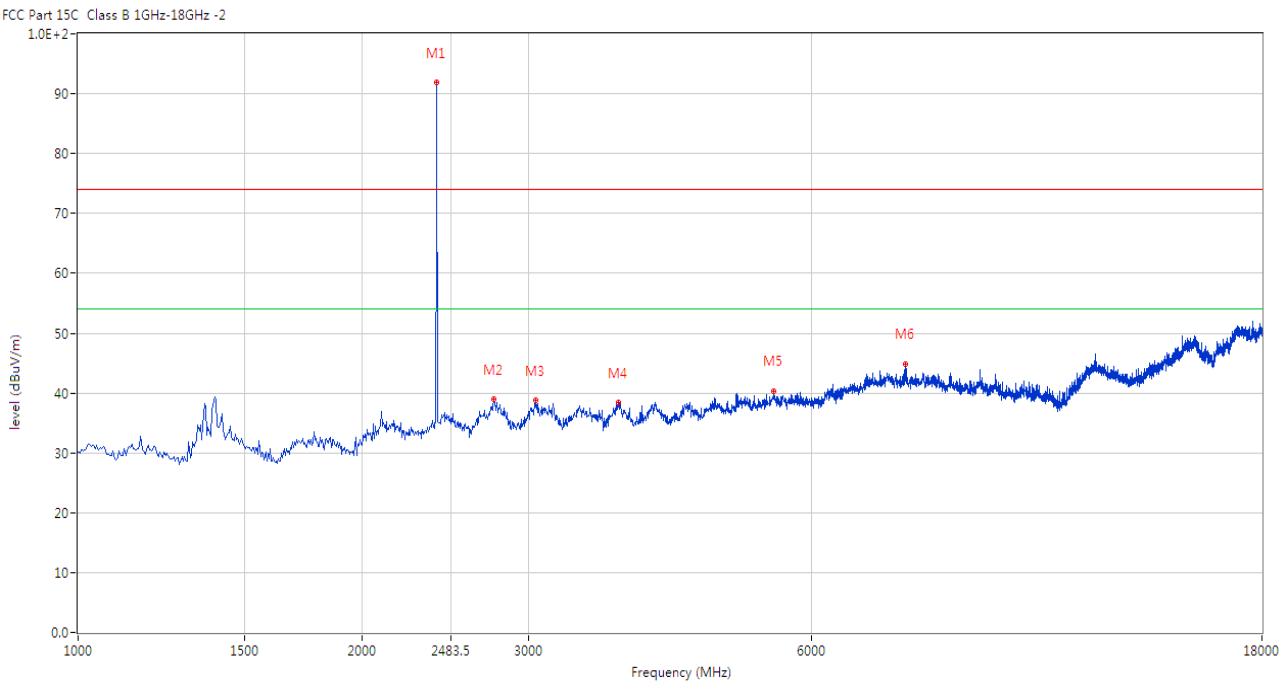


Test Figures above 1GHz:

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	91.83	-3.57	74.0	17.83	Peak	91.00	100	Horizontal	N/A
2	2759.500	38.94	-2.80	74.0	-35.06	Peak	313.00	100	Horizontal	Pass
3	3052.750	38.70	-2.41	74.0	-35.30	Peak	278.00	100	Horizontal	Pass
4	3737.000	38.33	-0.03	74.0	-35.67	Peak	9.00	100	Horizontal	Pass
5	5471.000	40.37	3.85	74.0	-33.63	Peak	0.00	100	Horizontal	Pass
6	7545.000	44.86	8.22	74.0	-29.14	Peak	168.00	100	Horizontal	Pass

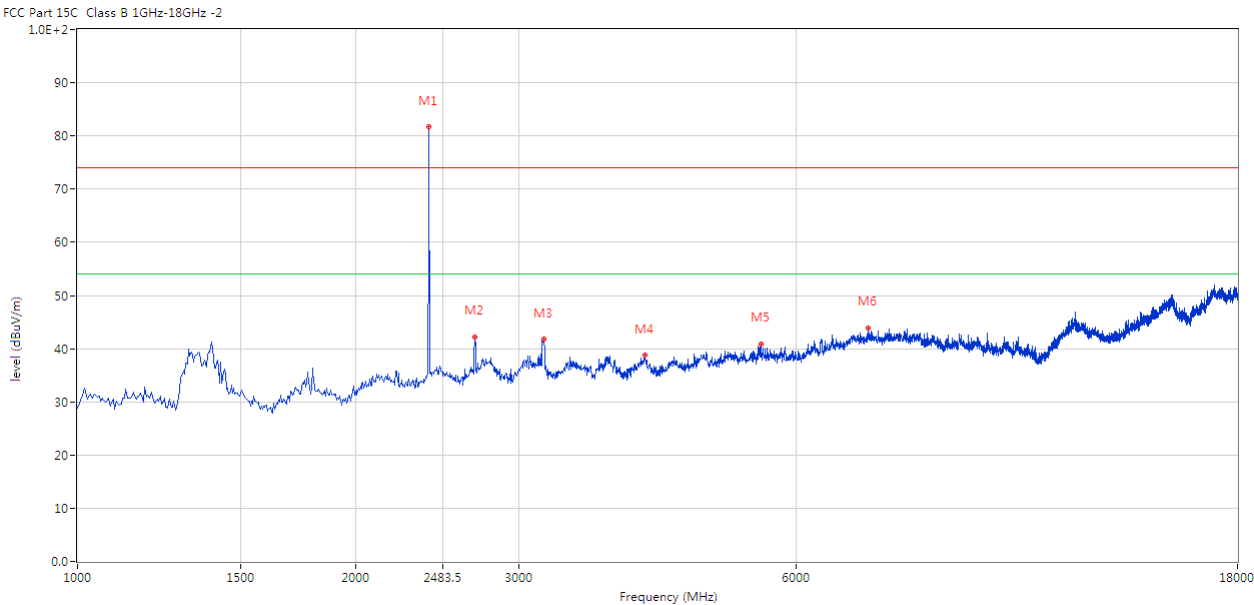
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	81.67	-3.57	74.0	7.67	Peak	313.00	100	Vertical	N/A
2	2691.500	42.17	-2.99	74.0	-31.83	Peak	316.00	100	Vertical	Pass
3	3193.000	41.86	-1.99	74.0	-32.14	Peak	305.00	100	Vertical	Pass
4	4115.250	38.72	1.43	74.0	-35.28	Peak	8.00	100	Vertical	Pass
5	5488.000	40.89	3.89	74.0	-33.11	Peak	318.00	100	Vertical	Pass
6	7171.000	43.95	8.07	74.0	-30.05	Peak	107.00	100	Vertical	Pass

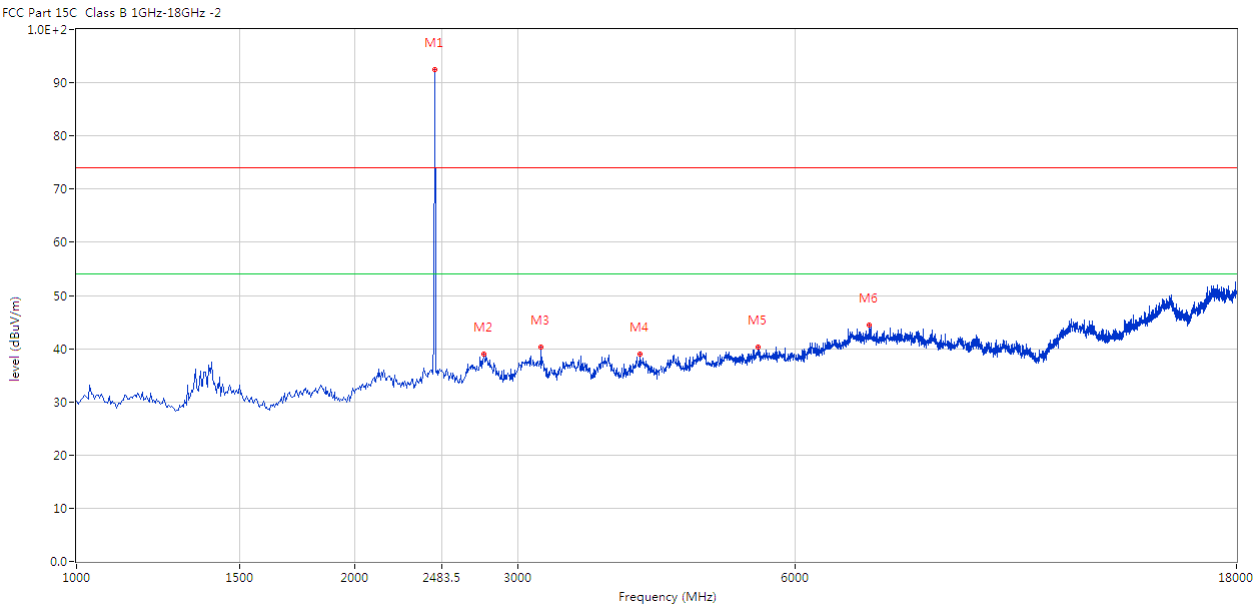
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	92.50	-3.57	74.0	18.50	Peak	83.00	100	Horizontal	N/A
2	2759.500	38.89	-2.80	74.0	-35.11	Peak	188.00	100	Horizontal	Pass
3	3184.500	40.35	-2.00	74.0	-33.65	Peak	146.00	100	Horizontal	Pass
4	4068.500	38.99	1.34	74.0	-35.01	Peak	272.00	100	Horizontal	Pass
5	5471.000	40.22	3.85	74.0	-33.78	Peak	15.00	100	Horizontal	Pass
6	7213.500	44.52	8.09	74.0	-29.48	Peak	348.00	100	Horizontal	Pass

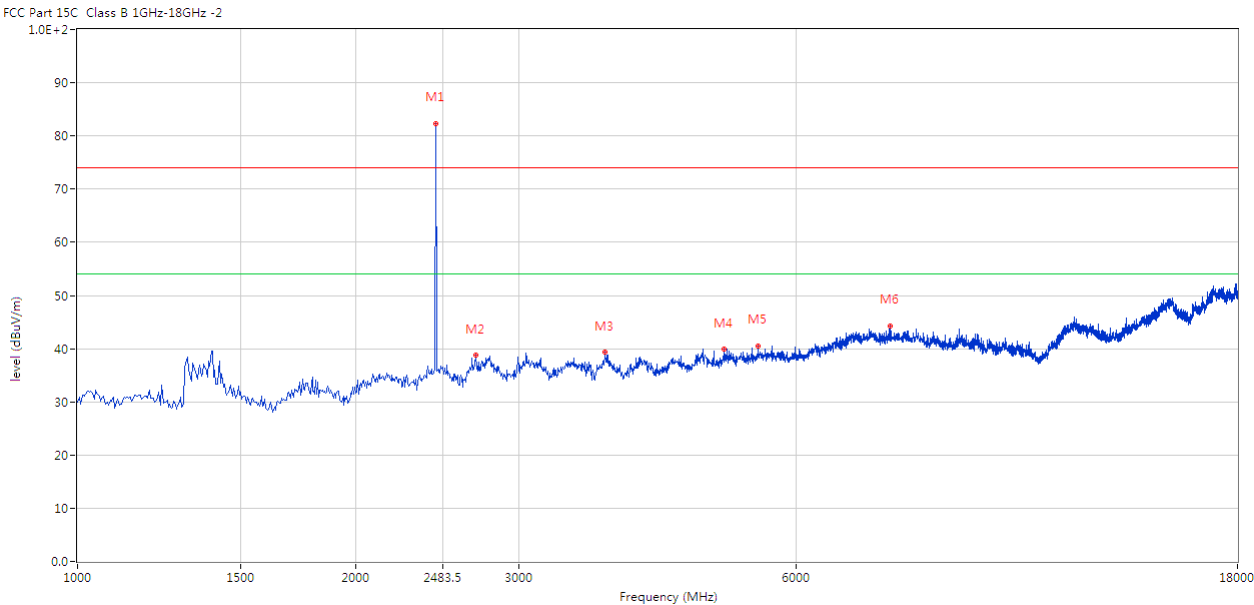
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	82.30	-3.57	74.0	8.30	Peak	314.00	100	Vertical	N/A
2	2695.750	38.70	-2.97	74.0	-35.30	Peak	320.00	100	Vertical	Pass
3	3724.250	39.31	-0.10	74.0	-34.69	Peak	293.00	100	Vertical	Pass
4	5012.000	39.91	3.49	74.0	-34.09	Peak	104.00	100	Vertical	Pass
5	5449.750	40.44	3.81	74.0	-33.56	Peak	300.00	100	Vertical	Pass
6	7574.750	44.32	8.23	74.0	-29.68	Peak	182.00	100	Vertical	Pass

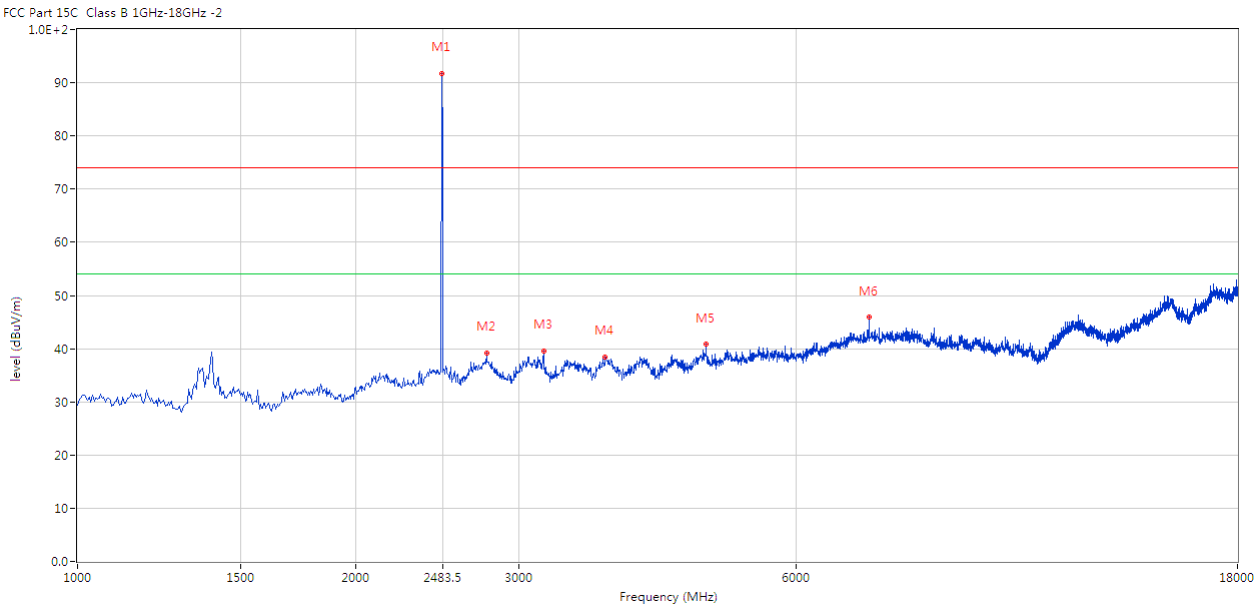
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.72	-3.57	74.0	17.72	Peak	87.00	100	Horizontal	N/A
2	2772.250	39.17	-2.77	74.0	-34.83	Peak	70.00	100	Horizontal	Pass
3	3193.000	39.57	-1.99	74.0	-34.43	Peak	313.00	100	Horizontal	Pass
4	3724.250	38.45	-0.10	74.0	-35.55	Peak	119.00	100	Horizontal	Pass
5	4786.750	40.88	3.09	74.0	-33.12	Peak	119.00	100	Horizontal	Pass
6	7188.000	45.87	8.08	74.0	-28.13	Peak	313.00	100	Horizontal	Pass

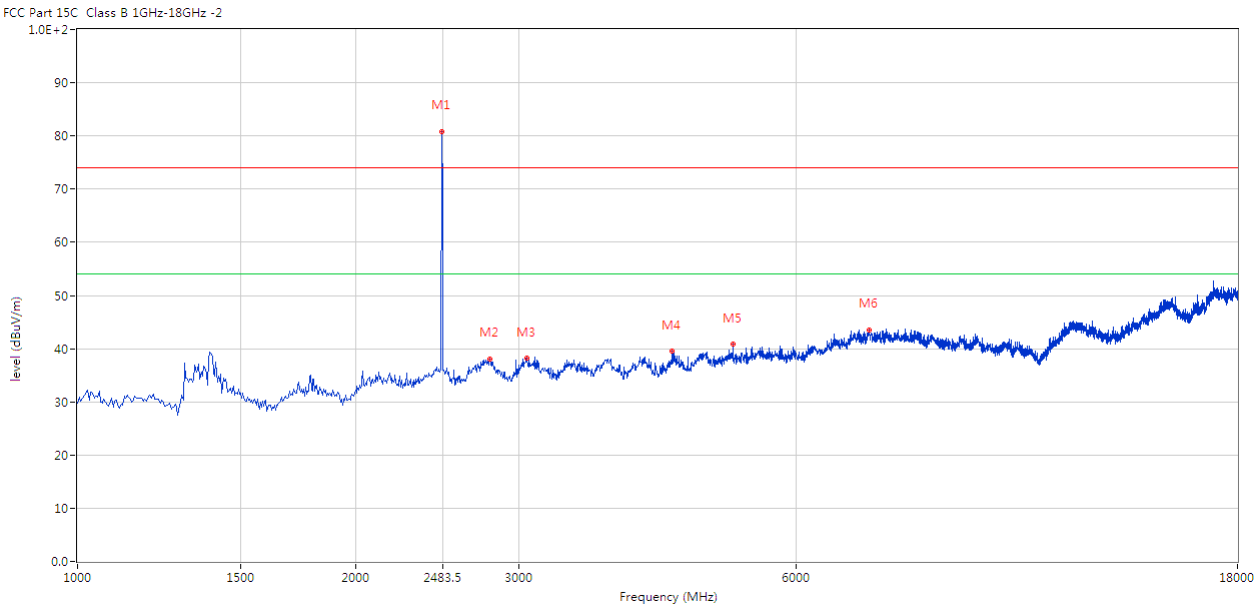
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	80.80	-3.57	74.0	6.80	Peak	304.00	100	Vertical	N/A
2	2793.500	37.97	-2.71	74.0	-36.03	Peak	139.00	100	Vertical	Pass
3	3061.250	38.26	-2.37	74.0	-35.74	Peak	165.00	100	Vertical	Pass
4	4404.250	39.50	2.01	74.0	-34.50	Peak	110.00	100	Vertical	Pass
5	5122.500	40.84	3.78	74.0	-33.16	Peak	91.00	100	Vertical	Pass
6	7192.250	43.52	8.08	74.0	-30.48	Peak	123.00	100	Vertical	Pass

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

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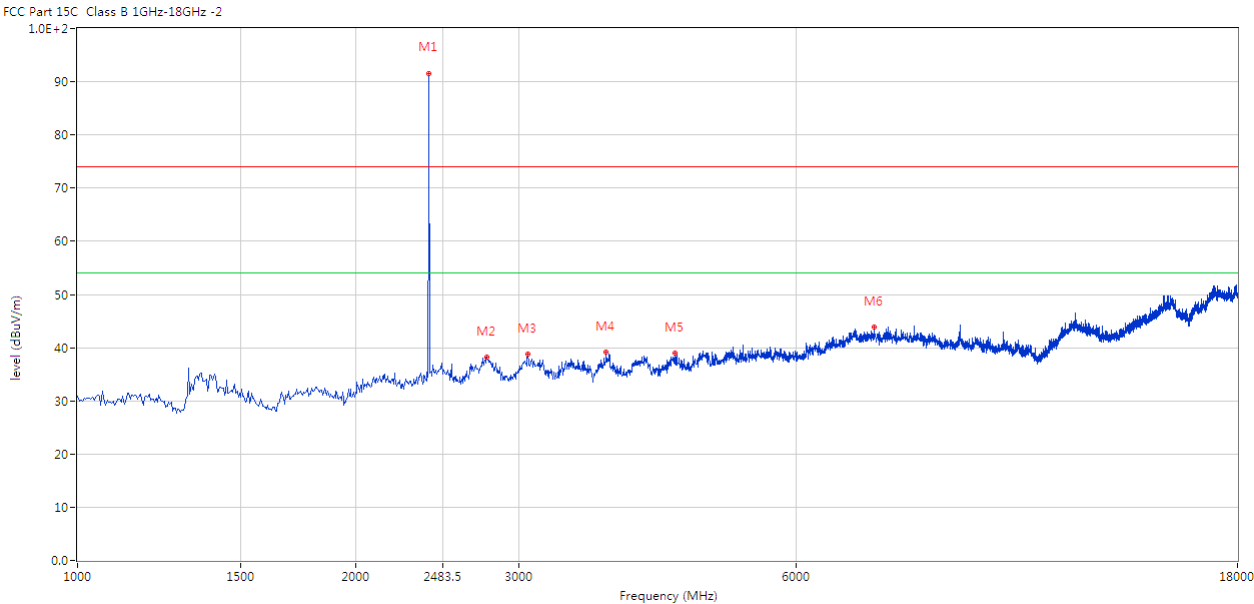
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LE-2M

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	91.58	-3.57	74.0	17.58	Peak	89.00	100	Horizontal	N/A
2	2772.250	38.20	-2.77	74.0	-35.80	Peak	66.00	100	Horizontal	Pass
3	3074.000	38.71	-2.31	74.0	-35.29	Peak	165.00	100	Horizontal	Pass
4	3732.750	39.08	-0.05	74.0	-34.92	Peak	246.00	100	Horizontal	Pass
5	4429.750	38.92	2.06	74.0	-35.08	Peak	71.00	100	Horizontal	Pass
6	7277.250	43.83	8.11	74.0	-30.17	Peak	71.00	100	Horizontal	Pass

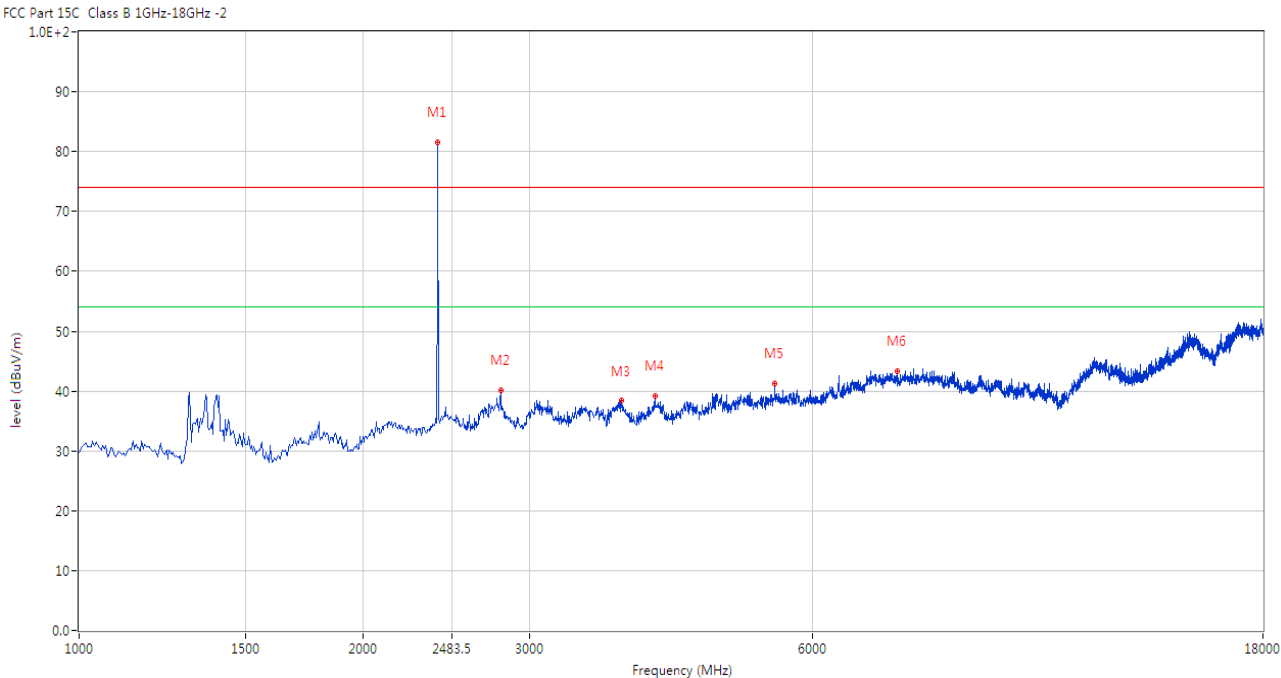
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	81.61	-3.57	74.0	7.61	Peak	309.00	100	Vertical	N/A
2	2797.750	40.04	-2.70	74.0	-33.96	Peak	353.00	100	Vertical	Pass
3	3762.500	38.35	0.11	74.0	-35.65	Peak	238.00	100	Vertical	Pass
4	4077.000	39.10	1.35	74.0	-34.90	Peak	326.00	100	Vertical	Pass
5	5462.500	41.29	3.84	74.0	-32.71	Peak	229.00	100	Vertical	Pass
6	7370.750	43.39	8.14	74.0	-30.61	Peak	317.00	100	Vertical	Pass

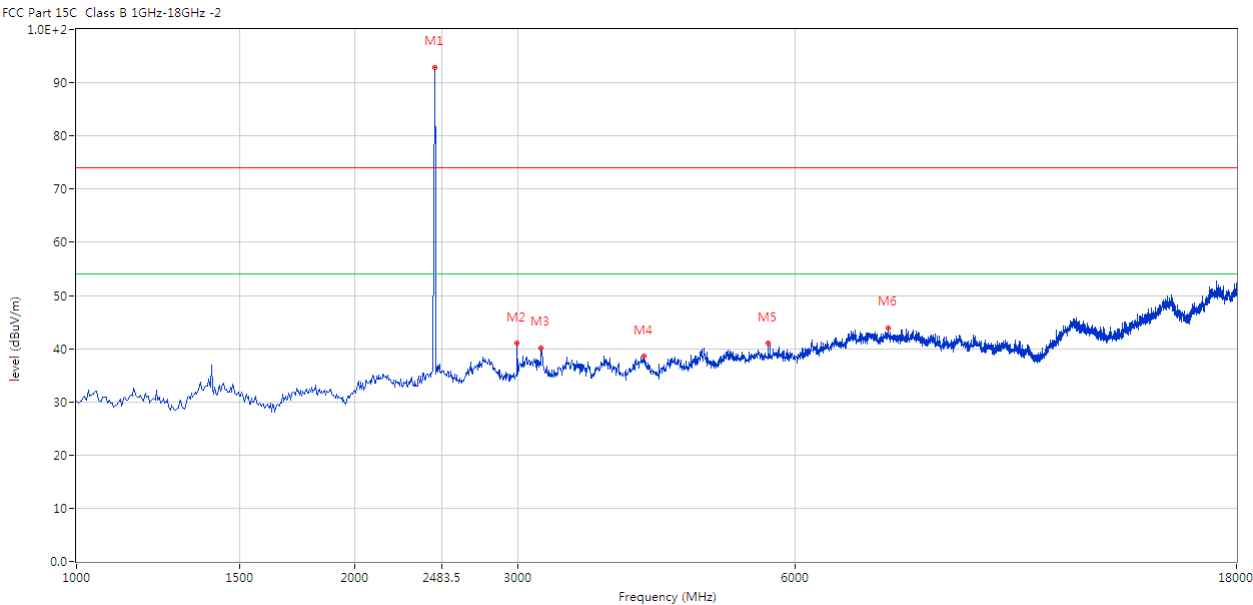
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	92.92	-3.57	74.0	18.92	Peak	85.00	100	Horizontal	N/A
2	2997.500	41.05	-2.64	74.0	-32.95	Peak	4.00	100	Horizontal	Pass
3	3184.500	40.19	-2.00	74.0	-33.81	Peak	340.00	100	Horizontal	Pass
4	4115.250	38.58	1.43	74.0	-35.42	Peak	1.00	100	Horizontal	Pass
5	5602.750	41.00	3.92	74.0	-33.00	Peak	340.00	100	Horizontal	Pass
6	7553.500	43.95	8.22	74.0	-30.05	Peak	330.00	100	Horizontal	Pass

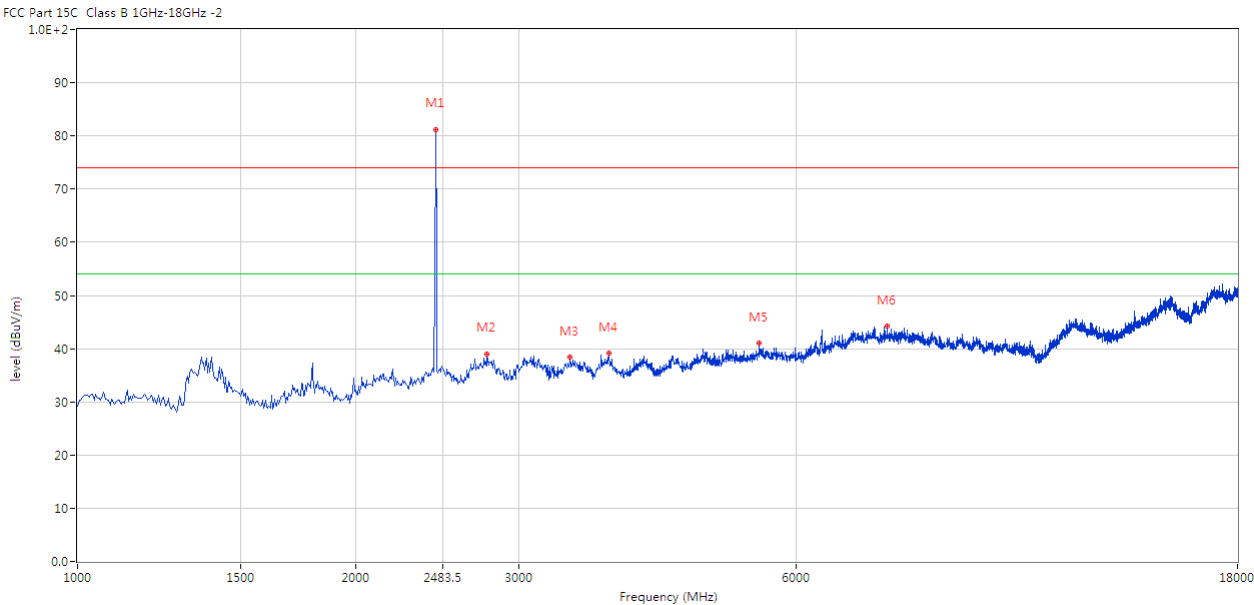
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	81.19	-3.57	74.0	7.19	Peak	314.00	100	Vertical	N/A
2	2776.500	38.89	-2.76	74.0	-35.11	Peak	219.00	100	Vertical	Pass
3	3414.000	38.49	-1.69	74.0	-35.51	Peak	130.00	100	Vertical	Pass
4	3758.250	39.20	0.09	74.0	-34.80	Peak	51.00	100	Vertical	Pass
5	5466.750	41.07	3.84	74.0	-32.93	Peak	40.00	100	Vertical	Pass
6	7519.500	44.21	8.20	74.0	-29.79	Peak	40.00	100	Vertical	Pass

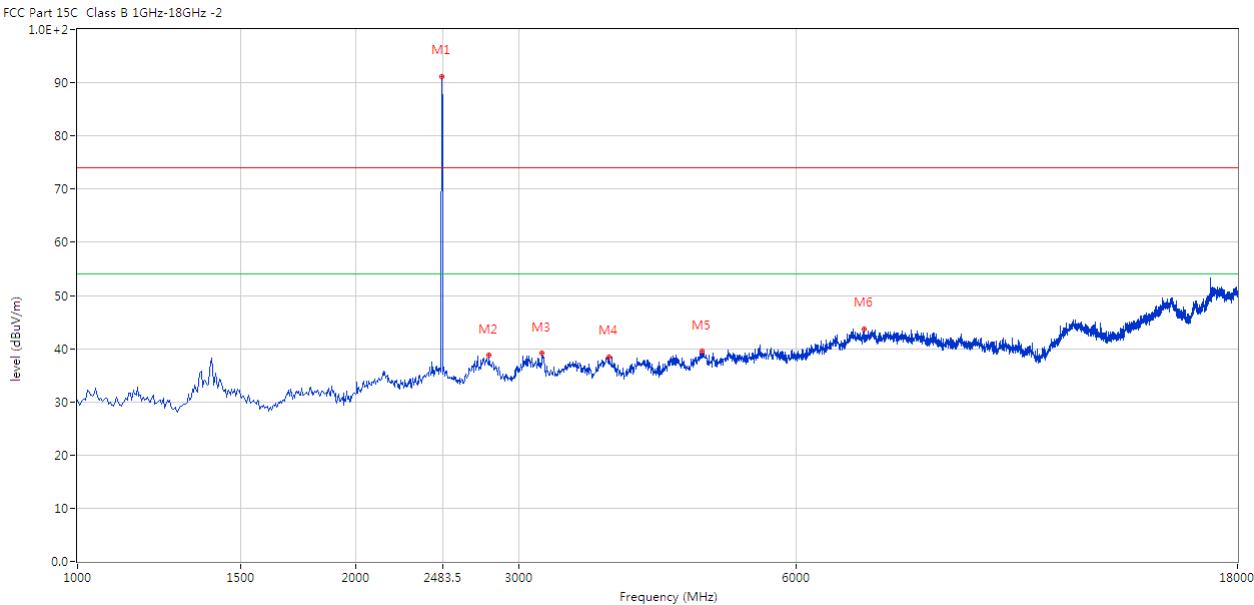
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.19	-3.57	74.0	17.19	Peak	82.00	100	Horizontal	N/A
2	2789.250	38.85	-2.72	74.0	-35.15	Peak	76.00	100	Horizontal	Pass
3	3184.500	39.13	-2.00	74.0	-34.87	Peak	43.00	100	Horizontal	Pass
4	3762.500	38.49	0.11	74.0	-35.51	Peak	217.00	100	Horizontal	Pass
5	4735.750	39.46	2.97	74.0	-34.54	Peak	244.00	100	Horizontal	Pass
6	7094.500	43.69	8.04	74.0	-30.31	Peak	94.00	100	Horizontal	Pass

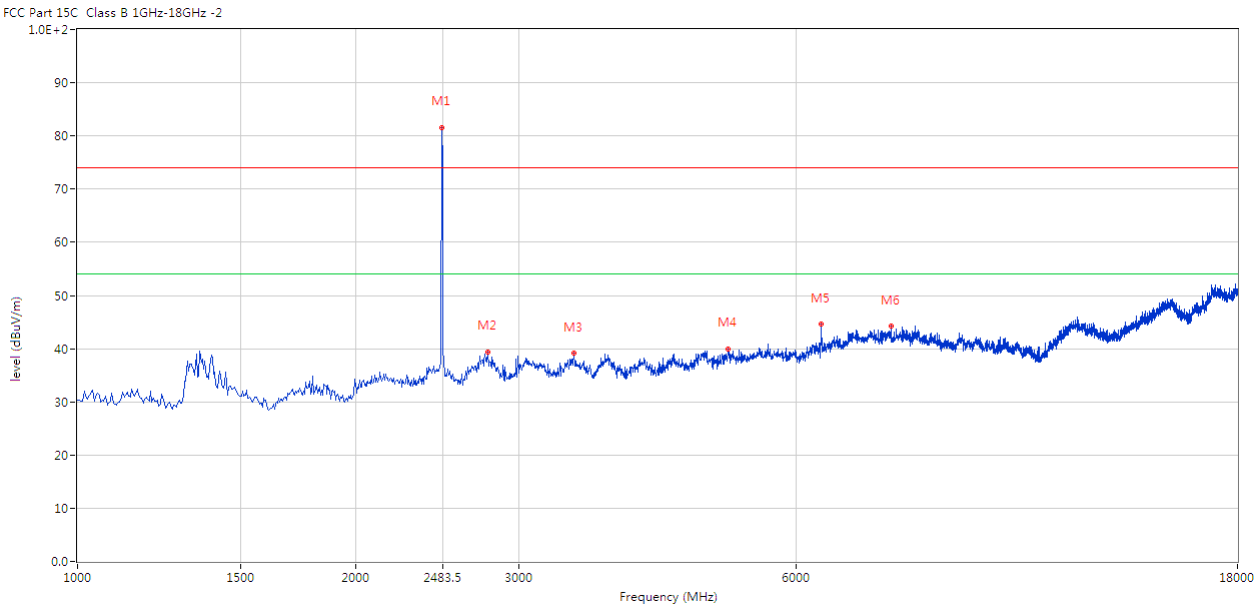
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.47	-3.57	74.0	7.47	Peak	313.00	100	Vertical	N/A
2	2780.750	39.45	-2.75	74.0	-34.55	Peak	219.00	100	Vertical	Pass
3	3443.750	39.11	-1.48	74.0	-34.89	Peak	335.00	100	Vertical	Pass
4	5063.000	39.97	3.68	74.0	-34.03	Peak	197.00	100	Vertical	Pass
5	6380.500	44.57	5.28	74.0	-29.43	Peak	313.00	100	Vertical	Pass
6	7600.250	44.21	8.25	74.0	-29.79	Peak	296.00	100	Vertical	Pass

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

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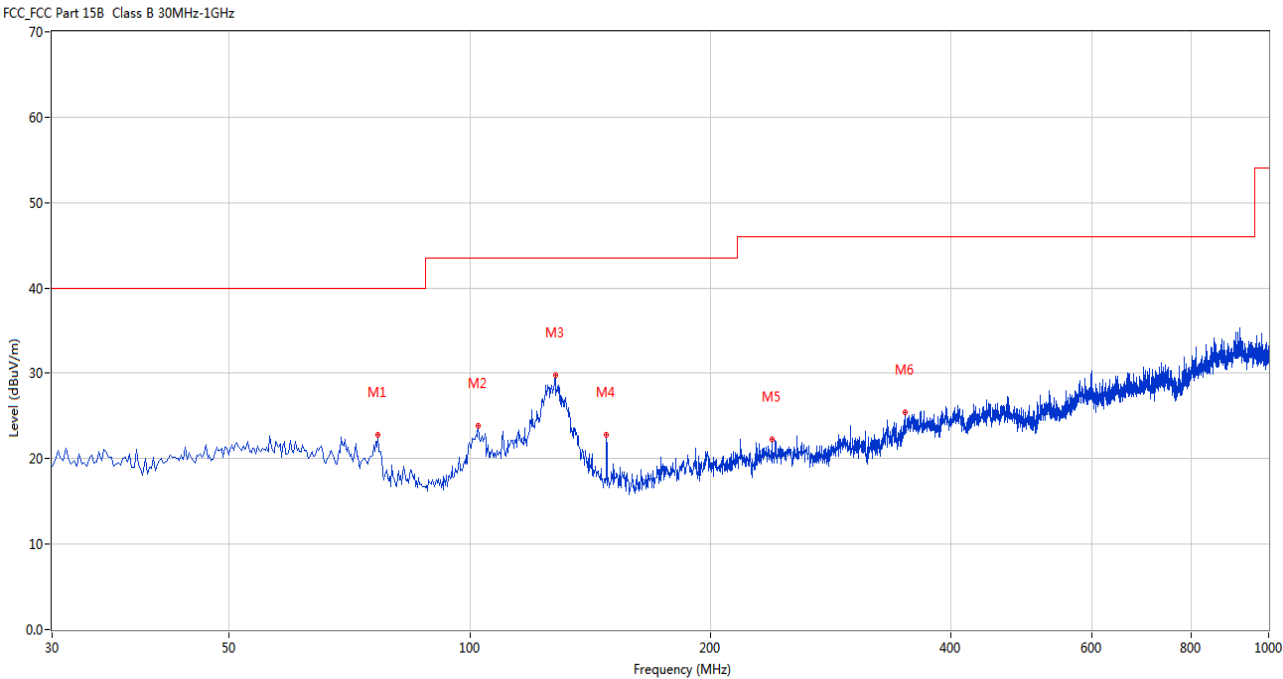
FPC Antenna

Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep Bluetooth Transmitting
Test Channel: Middle (2440MHz)
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	76.791	22.83	-12.87	40.0	17.17	Peak	69.00	100	Horizontal	Pass
2	102.489	23.88	-9.97	43.5	19.62	Peak	269.00	100	Horizontal	Pass
3	127.946	29.82	-10.81	43.5	13.68	Peak	311.00	100	Horizontal	Pass
4	148.310	22.79	-13.52	43.5	20.71	Peak	241.00	100	Horizontal	Pass
5	238.740	22.31	-8.89	46.0	23.69	Peak	178.00	100	Horizontal	Pass
6	350.990	25.49	-5.58	46.0	20.51	Peak	360.00	100	Horizontal	Pass

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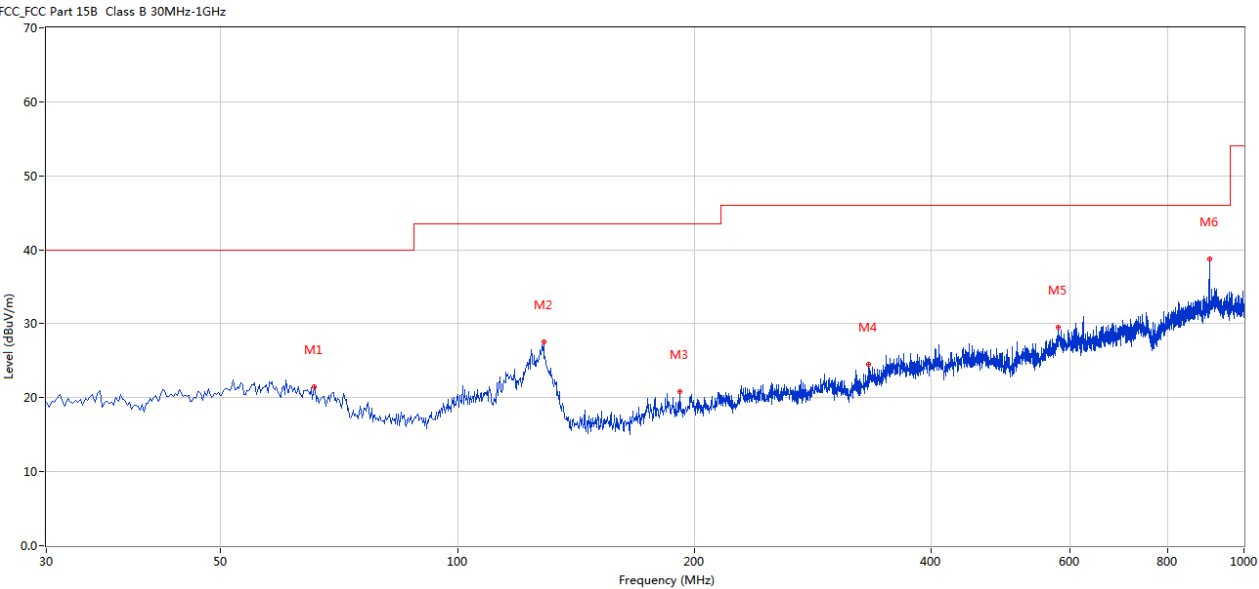


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2440MHz)
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	65.639	21.46	-10.52	40.0	18.54	Peak	30.00	100	Vertical	Pass
2	128.673	27.55	-10.97	43.5	15.95	Peak	222.00	100	Vertical	Pass
3	191.950	20.77	-11.06	43.5	22.73	Peak	90.00	100	Vertical	Pass
4	333.534	24.47	-6.29	46.0	21.53	Peak	135.00	100	Vertical	Pass
5	581.307	29.57	-1.65	46.0	16.43	Peak	351.00	100	Vertical	Pass
6	903.509	38.73	2.36	46.0	7.27	Peak	154.00	100	Vertical	Pass

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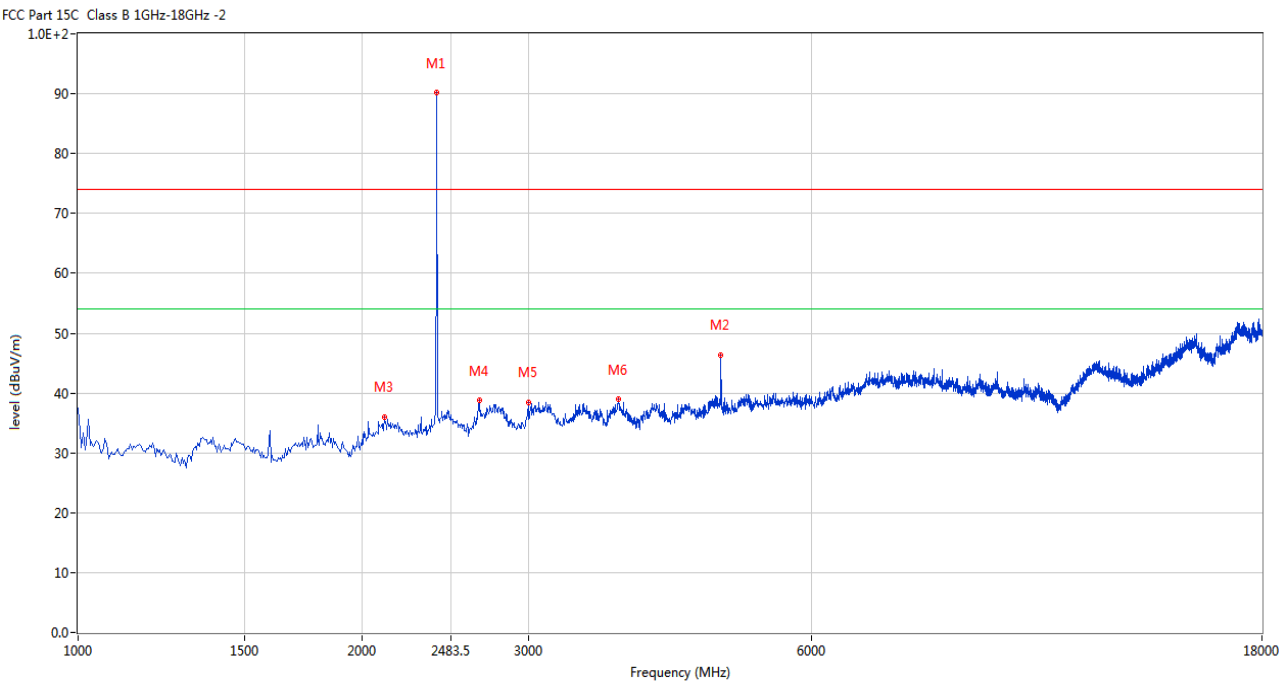


Test Figures above 1GHz:

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	90.17	-3.57	74.0	16.17	Peak	130.00	100	Horizontal	N/A
2	4803.750	46.40	3.13	74.0	-27.60	Peak	136.00	100	Horizontal	Pass
3	2113.500	35.90	-4.11	74.0	-38.10	Peak	148.00	100	Horizontal	Pass
4	2661.750	38.78	-3.10	74.0	-35.22	Peak	205.00	100	Horizontal	Pass
5	3001.750	38.49	-2.63	74.0	-35.51	Peak	24.00	100	Horizontal	Pass
6	3741.250	38.94	-0.00	74.0	-35.06	Peak	167.00	100	Horizontal	Pass

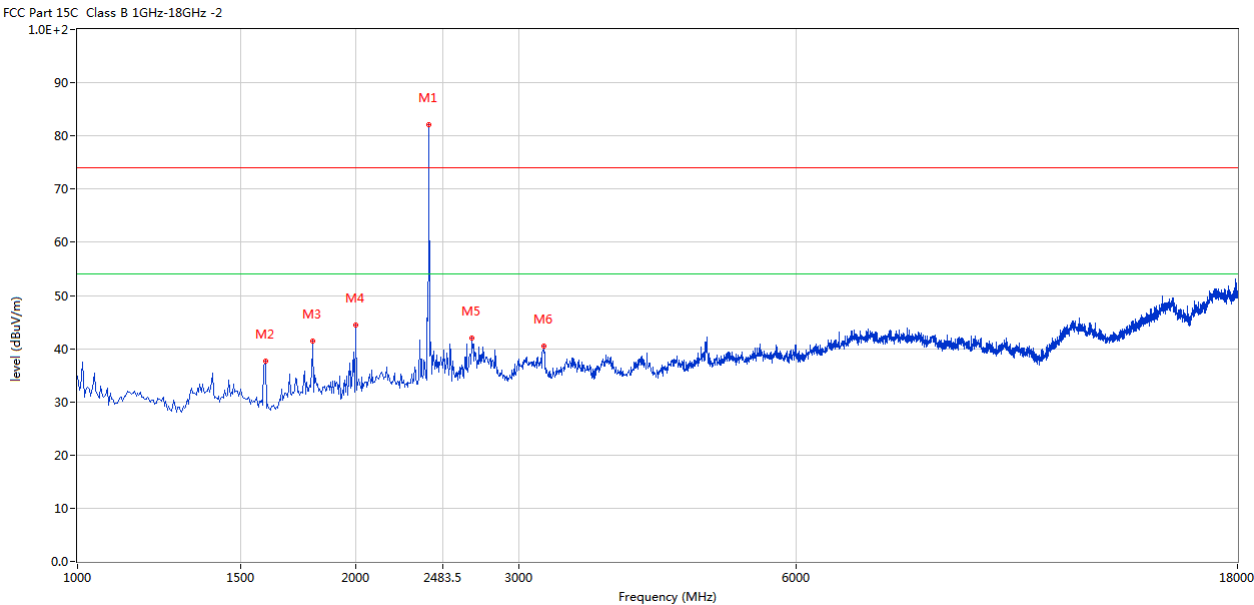
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	82.15	-3.57	74.0	8.15	Peak	35.00	100	Vertical	N/A
2	1599.250	37.66	-7.97	74.0	-36.34	Peak	74.00	100	Vertical	Pass
3	1799.000	41.34	-6.83	74.0	-32.66	Peak	105.00	100	Vertical	Pass
4	1998.750	44.46	-5.12	74.0	-29.54	Peak	247.00	100	Vertical	Pass
5	2674.500	42.06	-3.05	74.0	-31.94	Peak	341.00	100	Vertical	Pass
6	3197.250	40.50	-1.98	74.0	-33.50	Peak	356.00	100	Vertical	Pass

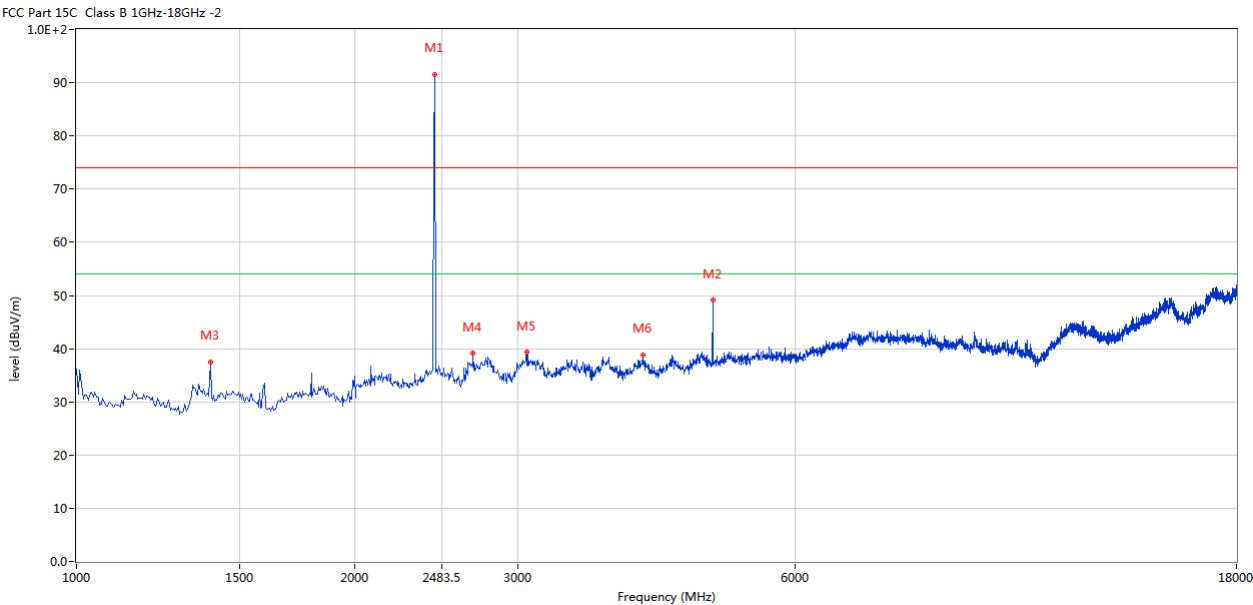
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	91.55	-3.57	74.0	17.55	Peak	130.00	100	Horizontal	N/A
2	4880.250	49.10	3.20	74.0	-24.90	Peak	127.00	100	Horizontal	Pass
3	1395.250	37.52	-8.17	74.0	-36.48	Peak	325.00	100	Horizontal	Pass
4	2687.250	39.26	-3.01	74.0	-34.74	Peak	98.00	100	Horizontal	Pass
5	3069.750	39.32	-2.33	74.0	-34.68	Peak	187.00	100	Horizontal	Pass
6	4106.750	38.88	1.41	74.0	-35.12	Peak	117.00	100	Horizontal	Pass

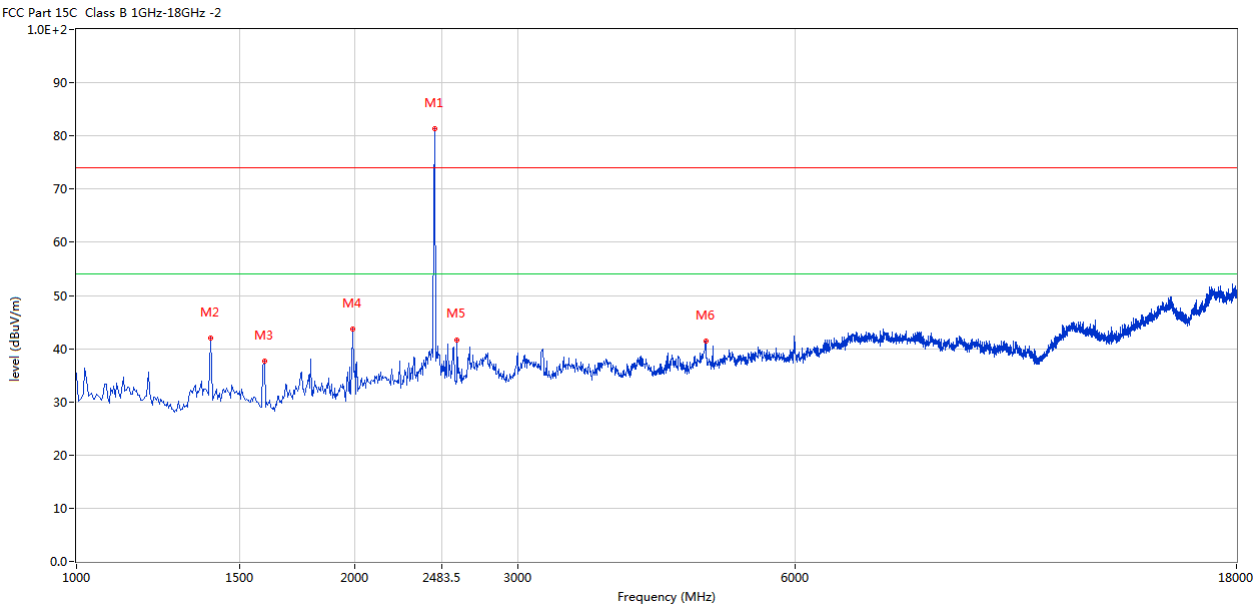
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	81.28	-3.57	74.0	7.28	Peak	30.00	100	Vertical	N/A
2	1395.250	41.93	-8.17	74.0	-32.07	Peak	59.00	100	Vertical	Pass
3	1599.250	37.58	-7.97	74.0	-36.42	Peak	70.00	100	Vertical	Pass
4	1990.250	43.68	-5.19	74.0	-30.32	Peak	5.00	100	Vertical	Pass
5	2581.000	41.53	-3.37	74.0	-32.47	Peak	0.00	100	Vertical	Pass
6	4795.250	41.34	3.11	74.0	-32.66	Peak	265.00	100	Vertical	Pass

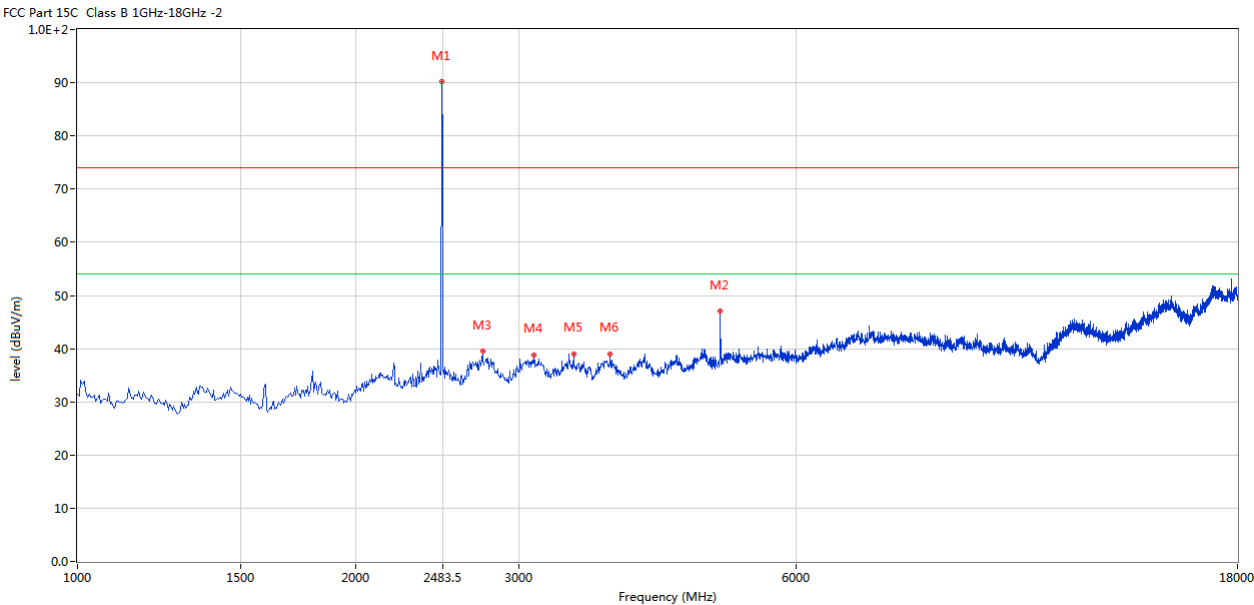
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	90.15	-3.57	74.0	16.15	Peak	90.00	100	Horizontal	N/A
2	4961.000	47.04	3.36	74.0	-26.96	Peak	90.00	100	Horizontal	Pass
3	2742.500	39.48	-2.85	74.0	-34.52	Peak	353.00	100	Horizontal	Pass
4	3120.750	38.84	-2.15	74.0	-35.16	Peak	32.00	100	Horizontal	Pass
5	3443.750	39.03	-1.48	74.0	-34.97	Peak	333.00	100	Horizontal	Pass
6	3771.000	39.03	0.15	74.0	-34.97	Peak	172.00	100	Horizontal	Pass

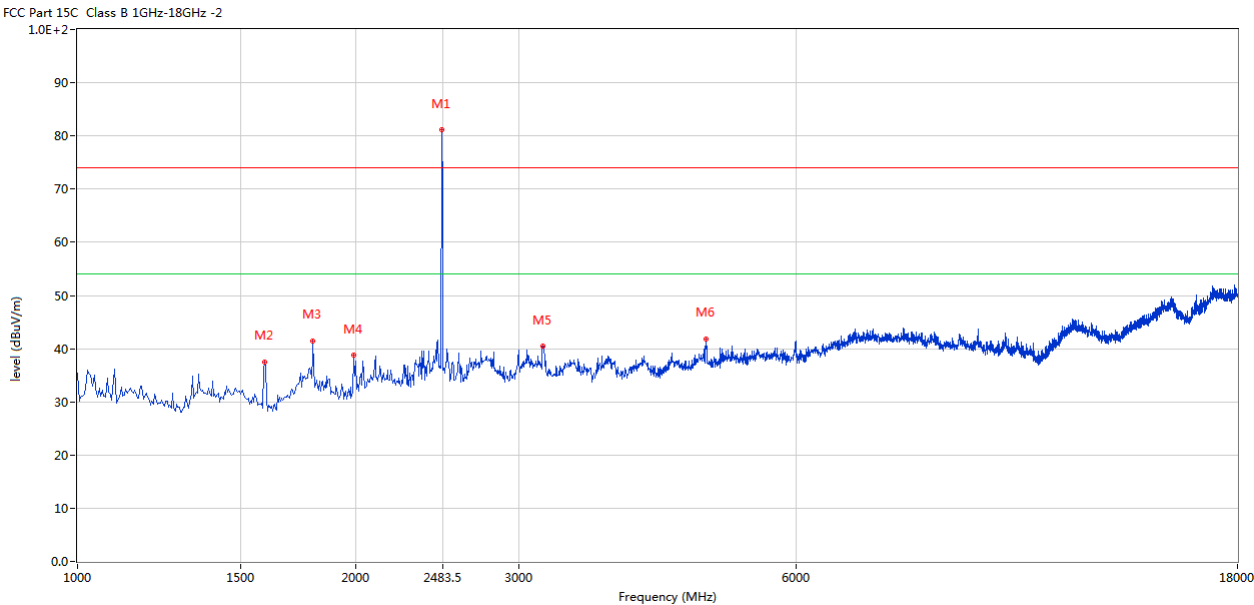
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.09	-3.57	74.0	7.09	Peak	316.00	100	Vertical	N/A
2	1595.000	37.53	-7.98	74.0	-36.47	Peak	62.00	100	Vertical	Pass
3	1799.000	41.47	-6.83	74.0	-32.53	Peak	332.00	100	Vertical	Pass
4	1990.250	38.76	-5.19	74.0	-35.24	Peak	267.00	100	Vertical	Pass
5	3188.750	40.41	-2.00	74.0	-33.59	Peak	351.00	100	Vertical	Pass
6	4791.000	41.81	3.10	74.0	-32.19	Peak	23.00	100	Vertical	Pass

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

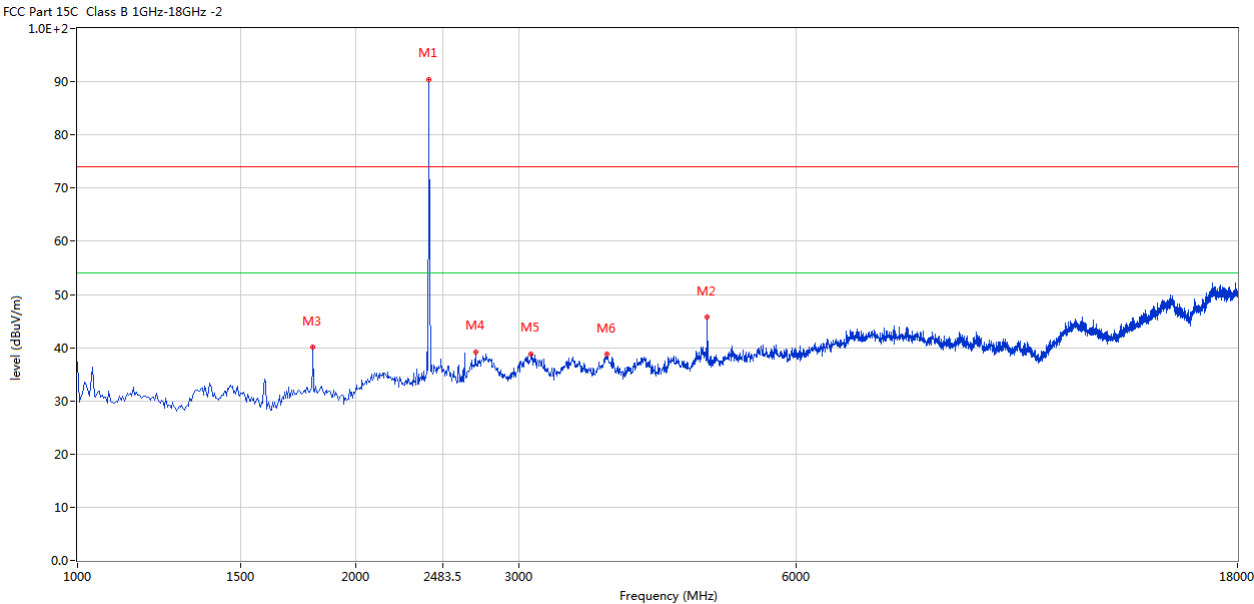
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LE-2M

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	90.43	-3.57	74.0	16.43	Peak	127.00	100	Horizontal	N/A
2	4803.750	45.75	3.13	74.0	-28.25	Peak	125.00	100	Horizontal	Pass
3	1799.000	40.04	-6.83	74.0	-33.96	Peak	53.00	100	Horizontal	Pass
4	2695.750	39.12	-2.97	74.0	-34.88	Peak	151.00	100	Horizontal	Pass
5	3095.250	38.81	-2.22	74.0	-35.19	Peak	266.00	100	Horizontal	Pass
6	3737.000	38.71	-0.03	74.0	-35.29	Peak	194.00	100	Horizontal	Pass

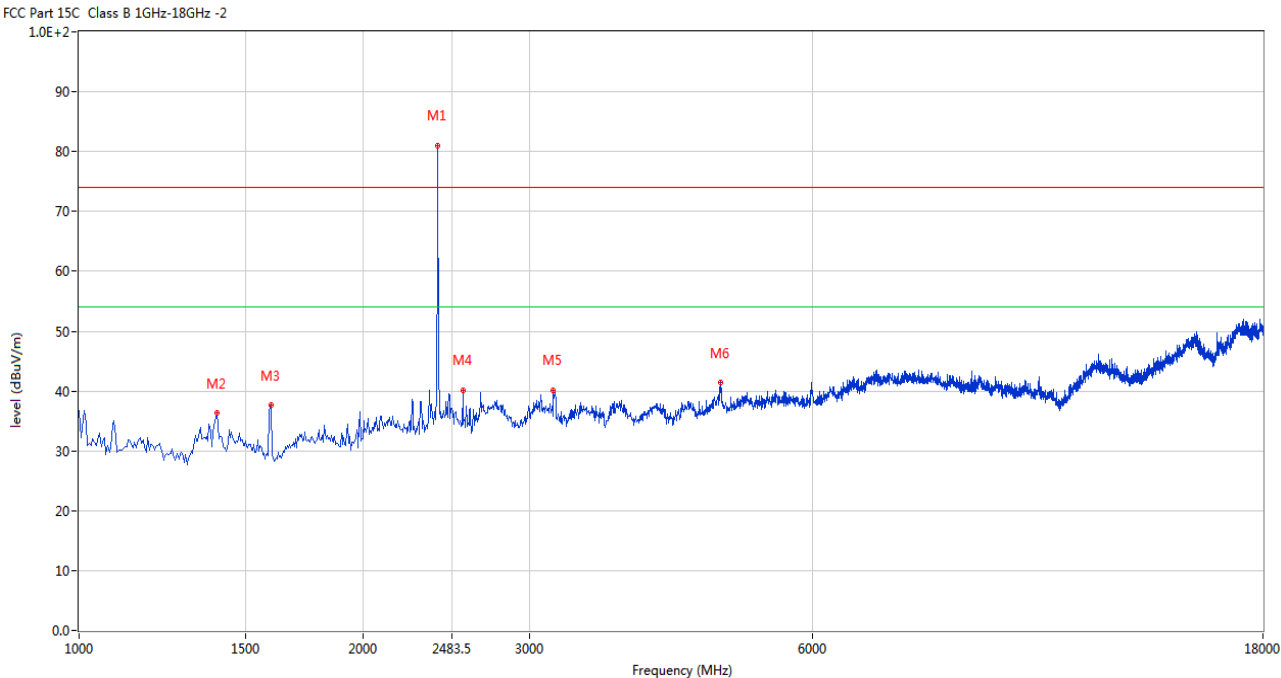
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	80.99	-3.57	74.0	6.99	Peak	35.00	100	Vertical	N/A
2	1399.500	36.42	-8.17	74.0	-37.58	Peak	118.00	100	Vertical	Pass
3	1599.250	37.62	-7.97	74.0	-36.38	Peak	67.00	100	Vertical	Pass
4	2551.250	40.02	-3.45	74.0	-33.98	Peak	19.00	100	Vertical	Pass
5	3184.500	40.13	-2.00	74.0	-33.87	Peak	262.00	100	Vertical	Pass
6	4791.000	41.34	3.10	74.0	-32.66	Peak	105.00	100	Vertical	Pass

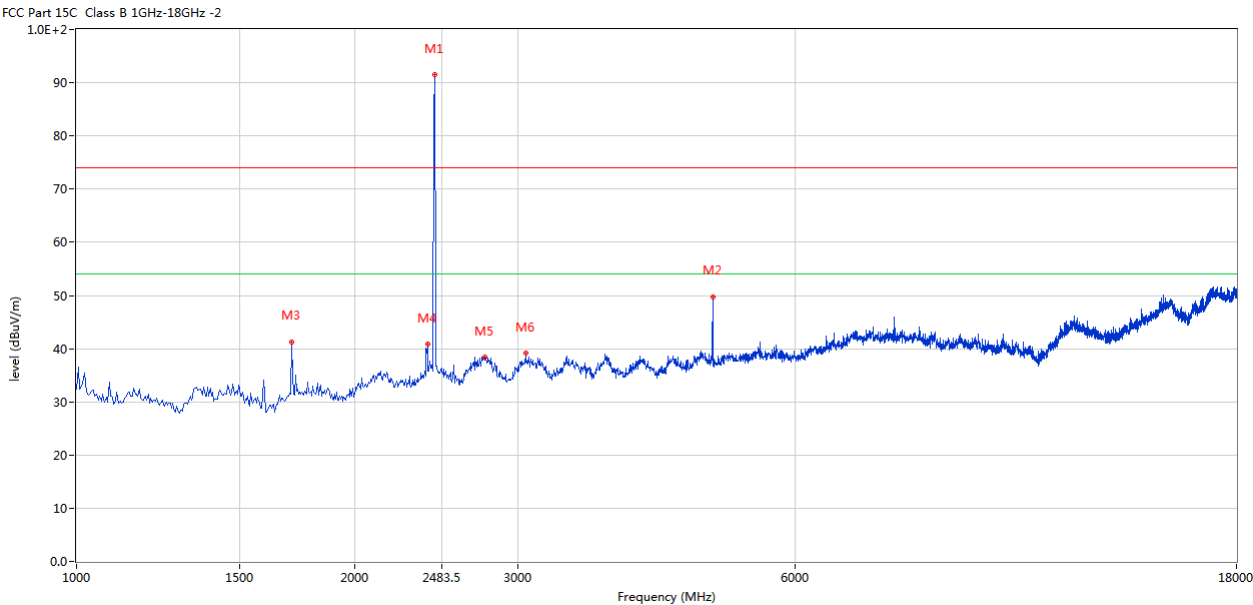
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	91.50	-3.57	74.0	17.50	Peak	126.00	100	Horizontal	N/A
2	4880.250	49.79	3.20	74.0	-24.21	Peak	126.00	100	Horizontal	Pass
3	1709.750	41.25	-7.47	74.0	-32.75	Peak	287.00	100	Horizontal	Pass
4	2398.250	40.83	-3.56	74.0	-33.17	Peak	218.00	100	Horizontal	Pass
5	2763.750	38.50	-2.79	74.0	-35.50	Peak	8.00	100	Horizontal	Pass
6	3061.250	39.11	-2.37	74.0	-34.89	Peak	359.00	100	Horizontal	Pass

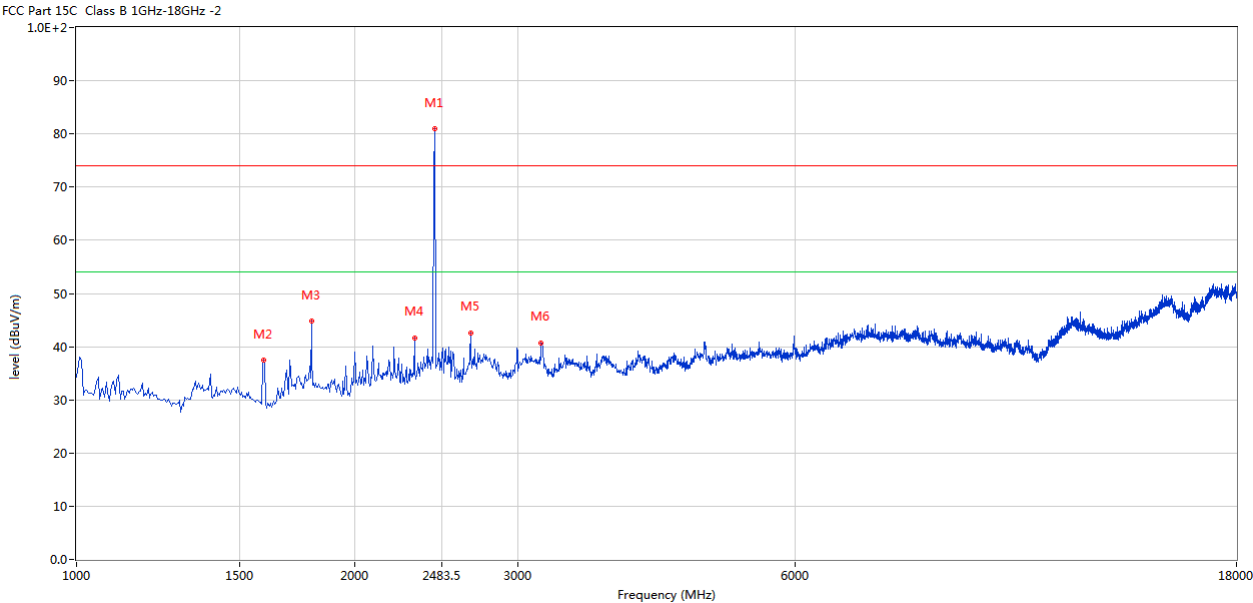
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	80.93	-3.57	74.0	6.93	Peak	321.00	100	Vertical	N/A
2	1595.000	37.49	-7.98	74.0	-36.51	Peak	62.00	100	Vertical	Pass
3	1794.750	44.77	-6.86	74.0	-29.23	Peak	294.00	100	Vertical	Pass
4	2321.750	41.66	-3.27	74.0	-32.34	Peak	283.00	100	Vertical	Pass
5	2670.250	42.63	-3.07	74.0	-31.37	Peak	356.00	100	Vertical	Pass
6	3184.500	40.72	-2.00	74.0	-33.28	Peak	356.00	100	Vertical	Pass

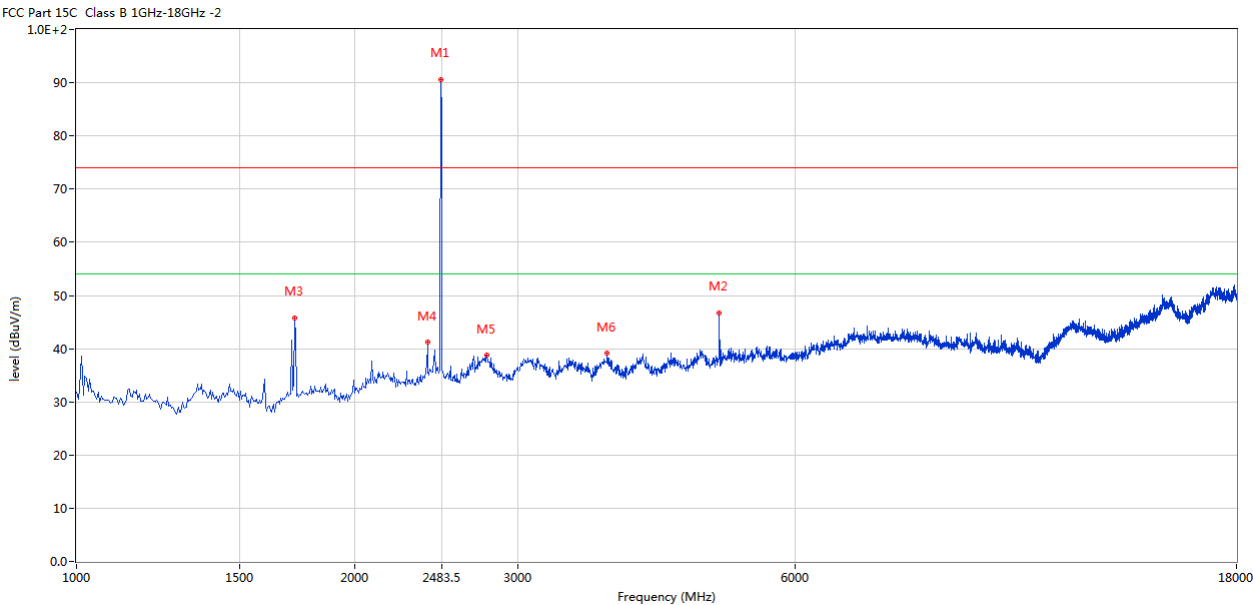
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	90.58	-3.57	74.0	16.58	Peak	90.00	100	Horizontal	N/A
2	4961.000	46.71	3.36	74.0	-27.29	Peak	43.00	100	Horizontal	Pass
3	1722.500	45.83	-7.38	74.0	-28.17	Peak	7.00	100	Horizontal	Pass
4	2398.250	41.30	-3.56	74.0	-32.70	Peak	263.00	100	Horizontal	Pass
5	2780.750	38.74	-2.75	74.0	-35.26	Peak	198.00	100	Horizontal	Pass
6	3754.000	39.11	0.06	74.0	-34.89	Peak	4.00	100	Horizontal	Pass

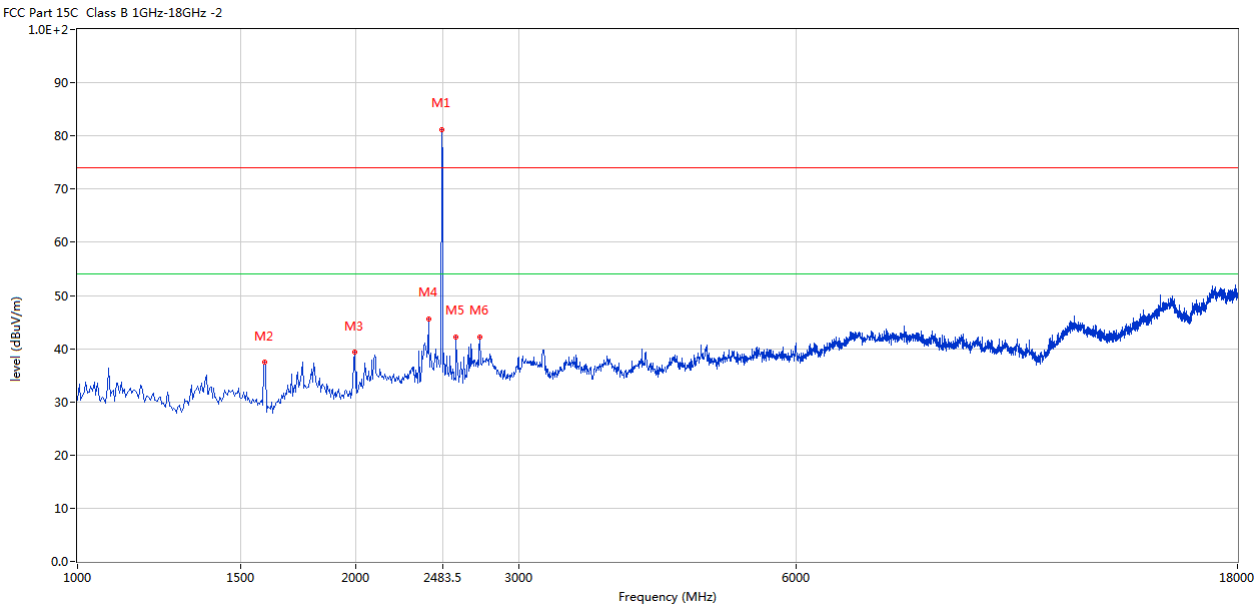
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.20	-3.57	74.0	7.20	Peak	312.00	100	Vertical	N/A
2	1595.000	37.42	-7.98	74.0	-36.58	Peak	69.00	100	Vertical	Pass
3	1994.500	39.31	-5.15	74.0	-34.69	Peak	228.00	100	Vertical	Pass
4	2398.250	45.59	-3.56	74.0	-28.41	Peak	271.00	100	Vertical	Pass
5	2568.250	42.18	-3.40	74.0	-31.82	Peak	1.00	100	Vertical	Pass
6	2725.500	42.19	-2.89	74.0	-31.81	Peak	294.00	100	Vertical	Pass

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G, 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.

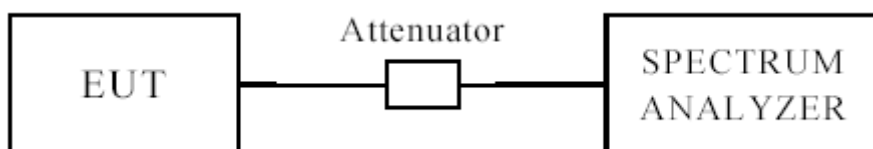
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7.0 6dB Bandwidth Measurement

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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LE-1M

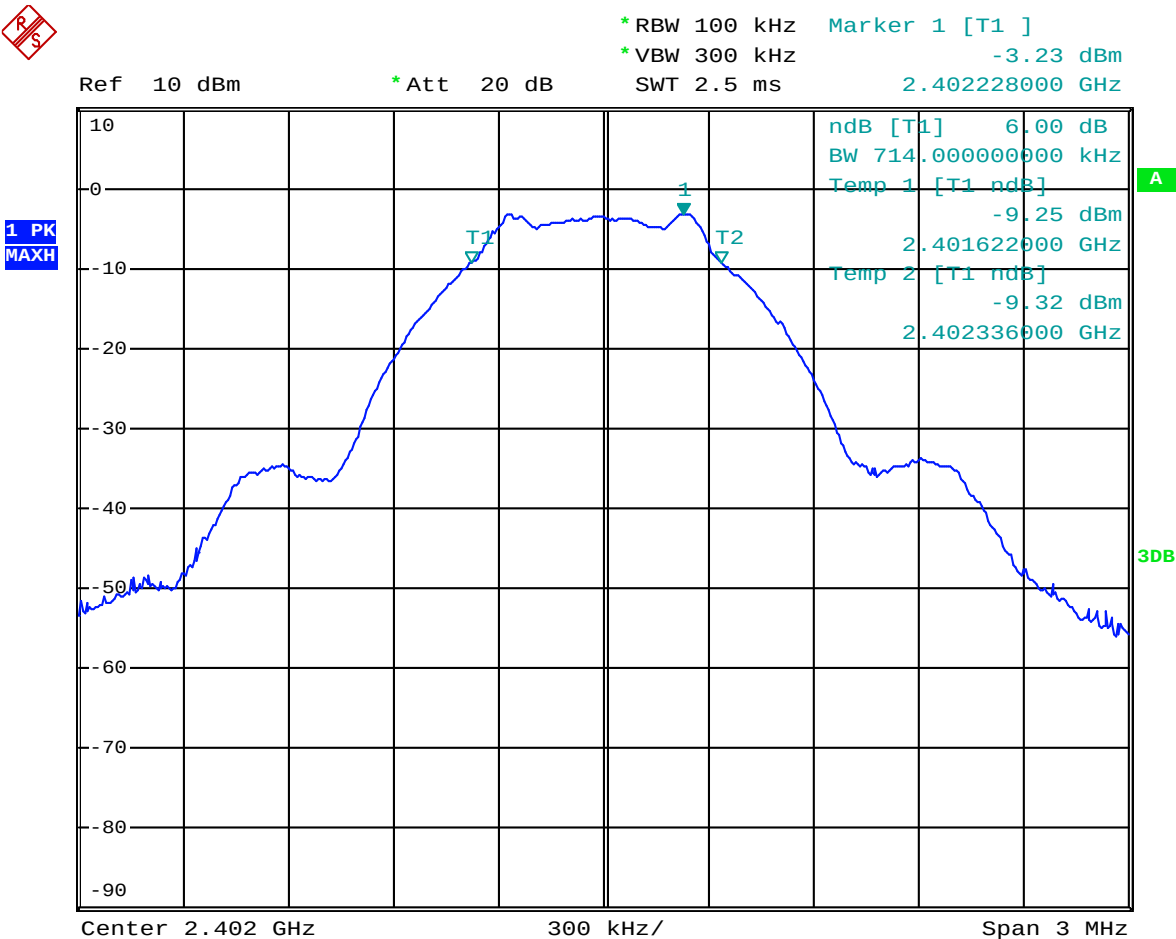
EUT	Bluetooth module		Model	B113A-015-BLUE
Mode	Keep Transmitting		Input Voltage	DC3.3V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	714	500	Pass
Middle	2440	720	500	Pass
High	2480	708	500	Pass

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Test Figure:

1. Condition: Low Channel

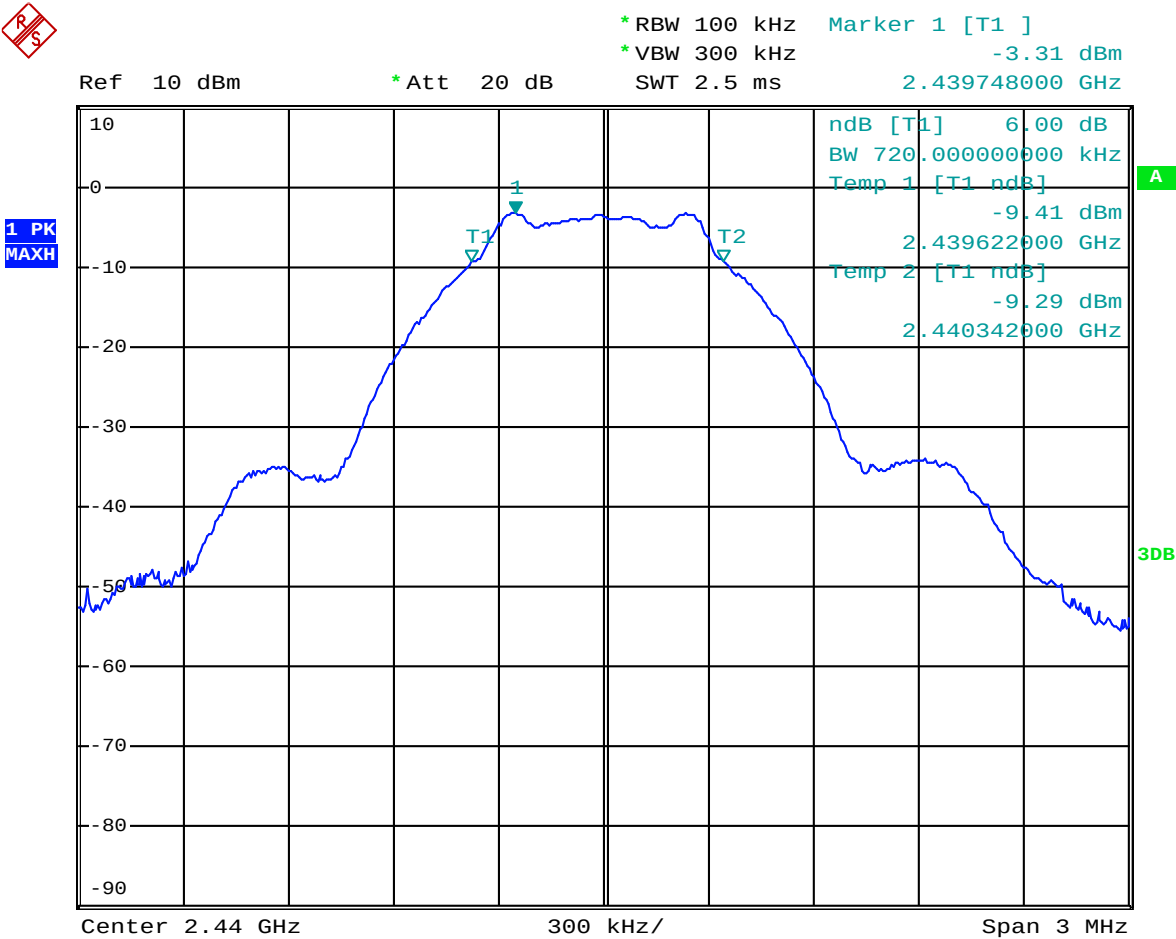


Date: 22.MAY.2026 18:19:28

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2. Condition: Middle Channel

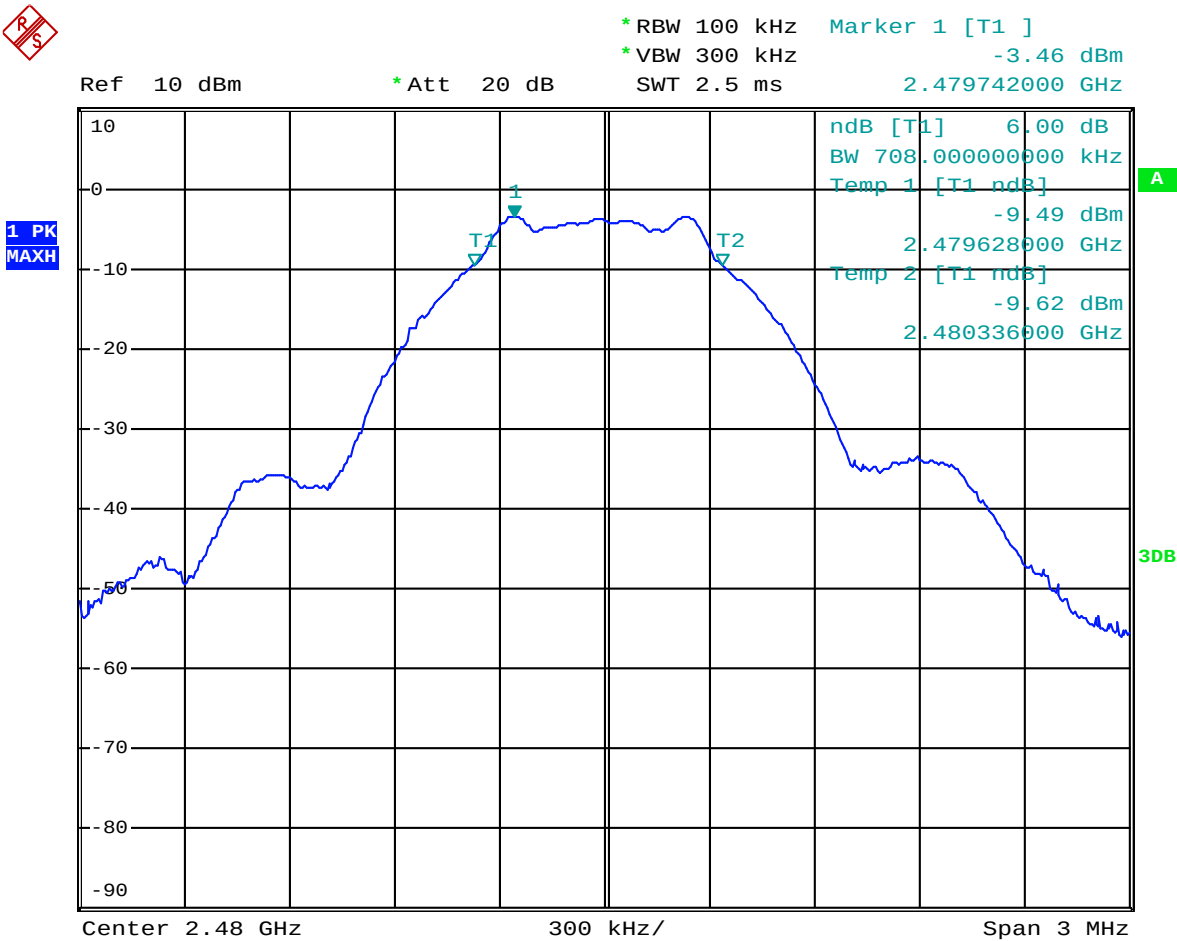


Date: 22.MAY.2026 18:20:35

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3. High Channel



Date: 22.MAY.2026 18:21:06

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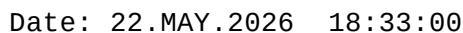


LE-2M

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail	
Low	2402	1260	500	Pass	
Middle	2440	1260	500	Pass	
High	2480	1260	500	Pass	

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1. Condition: Low Channel

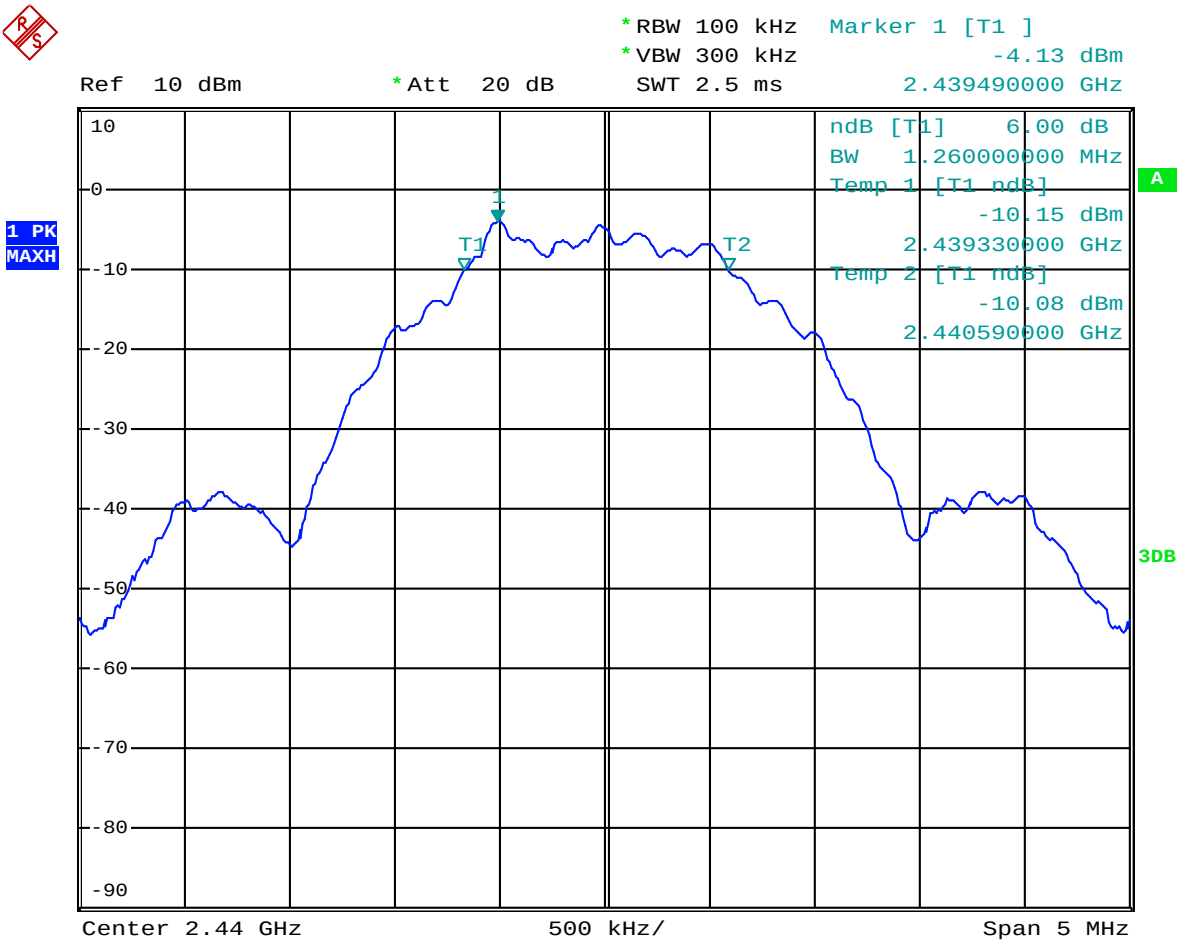


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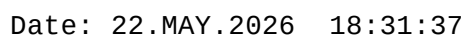


2. Condition: Middle Channel



Date: 22.MAY.2026 18:32:18

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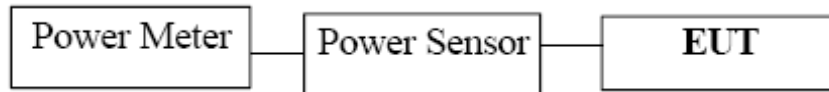


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8. Maximum Output Power

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		Bluetooth module		Model		B113A-015-BLUE	
Mode		Keep Transmitting		Input Voltage		DC3.3V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	-2.70			30	Pass	
Middle	2440	-2.83			30	Pass	
High	2480	-3.00			30	Pass	

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

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

LE-2M

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Peak Power Limit (dBm)	Pass/ Fail
		Peak			
Low	2402	-2.91		30	Pass
Middle	2440	-3.08		30	Pass
High	2480	-3.26		30	Pass

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

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

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

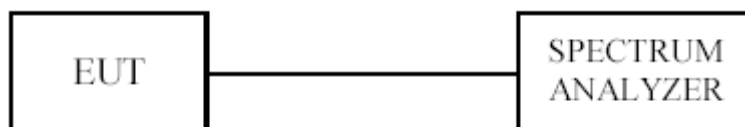
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9. Power Spectral Density Measurement

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	Bluetooth module			Model	B113A-015-BLUE
Mode	Keep Transmitting			Input Voltage	DC3.3V
Temperature	24 deg. C,			Humidity	56% RH
Channel	PSD Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-12.54	0.2	-12.34	8	Pass
Middle	-12.68	0.2	-12.48	8	Pass
High	-12.74	0.2	-12.54	8	Pass

Note: The result basic equation calculation as follow:

$$\text{Final Power Spectral Density} = \text{PSD Reading} + \text{Cable loss}$$

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

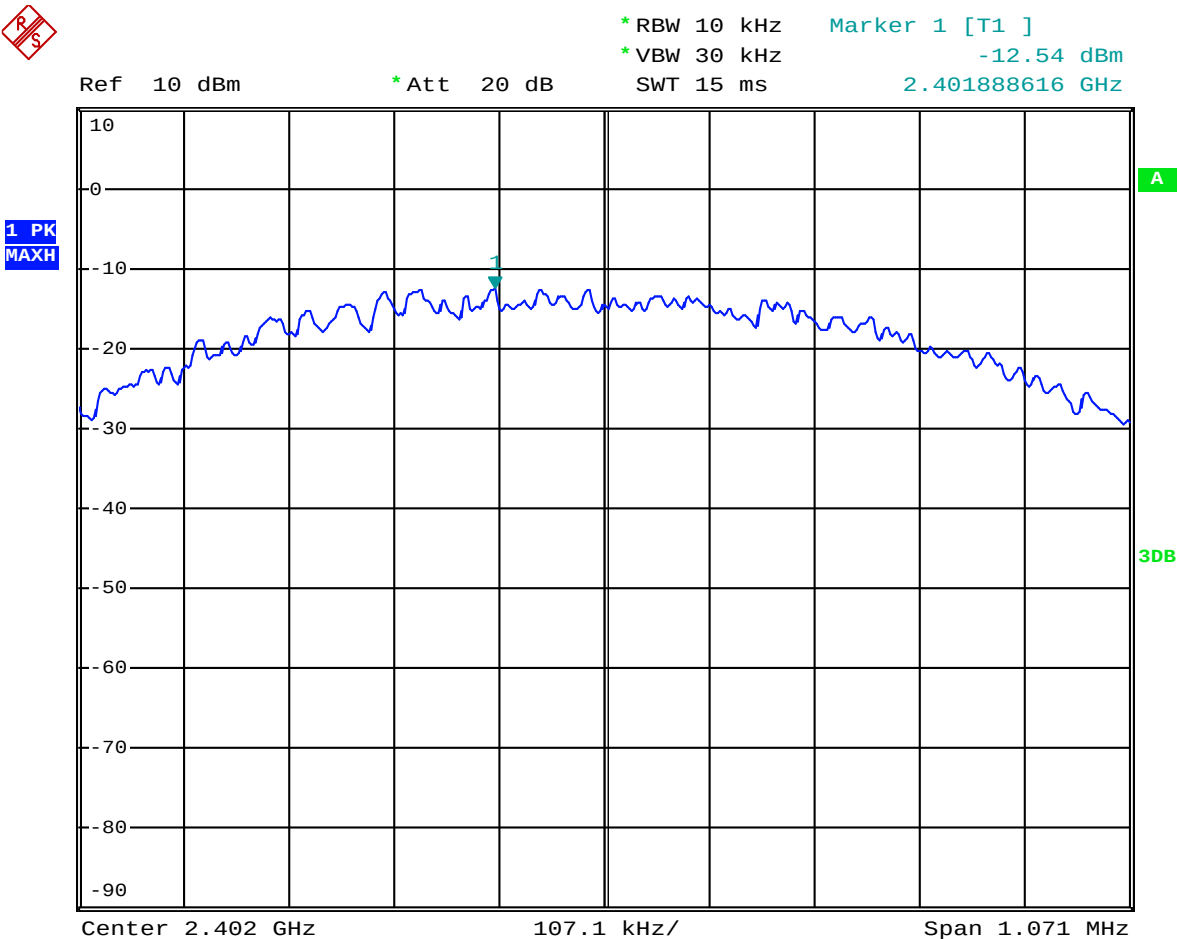
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Test Figure:

1. Condition: Low Channel

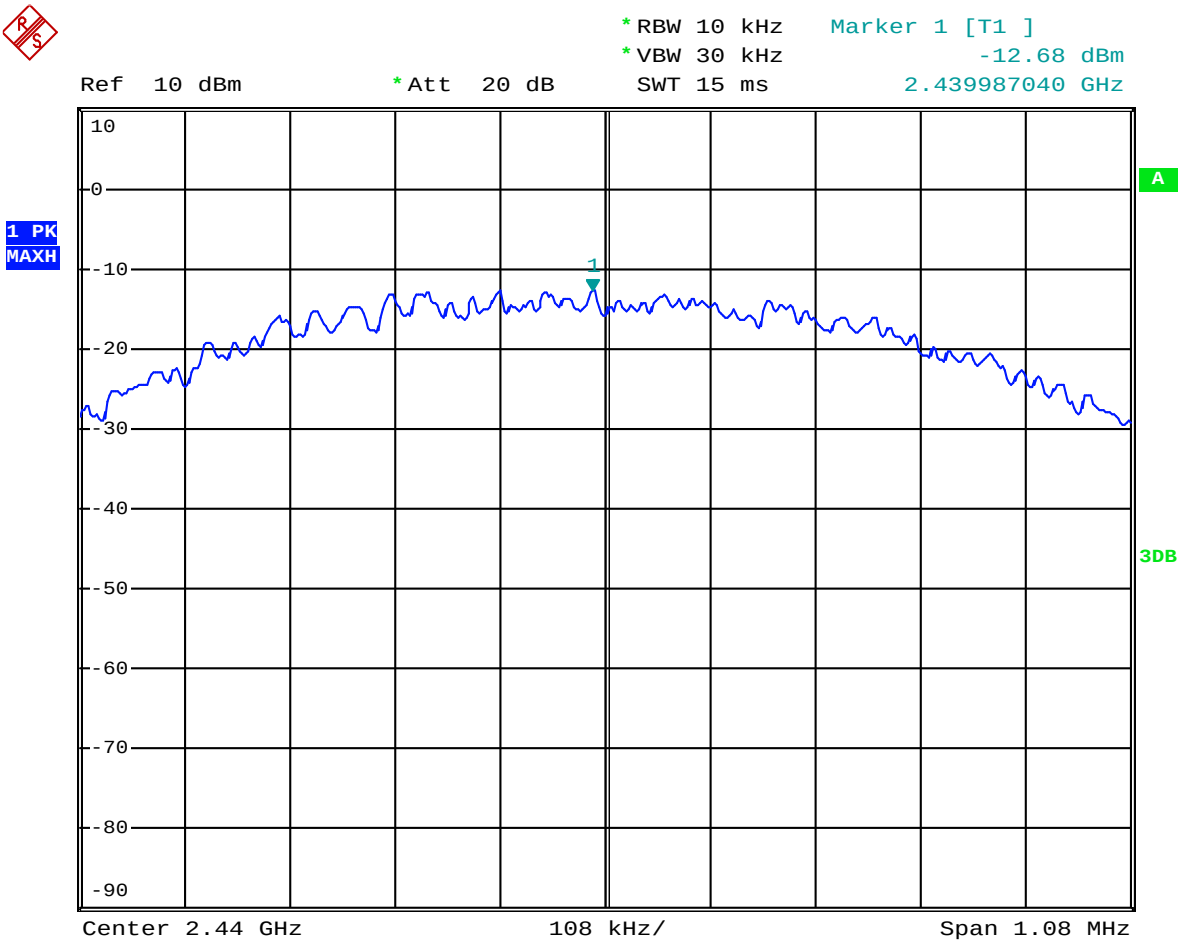


Date: 22.MAY.2026 18:23:50

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2. Condition: Middle Channel

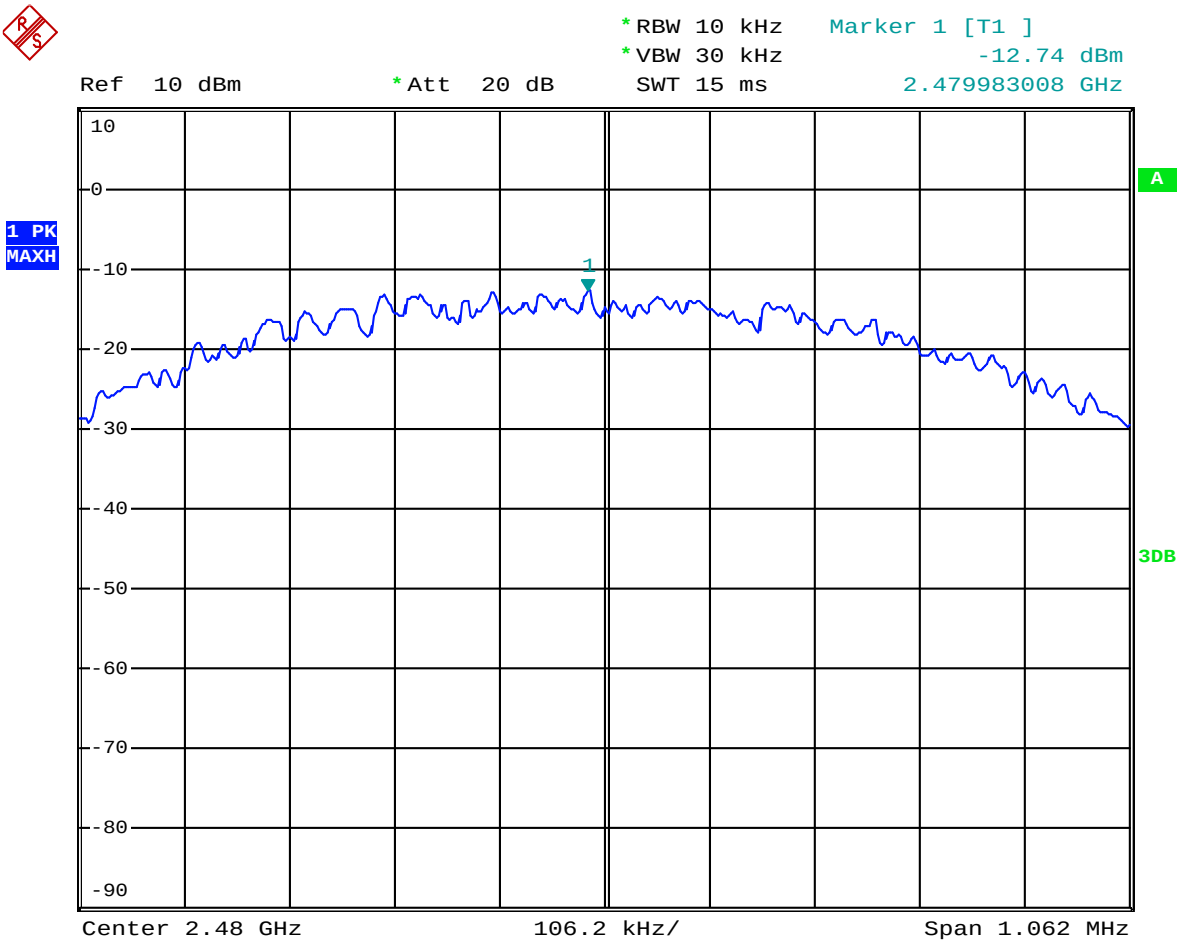


Date: 22.MAY.2026 18:27:05

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3. High Channel



Date: 22.MAY.2026 18:27:35

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LE-2M

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	PSD Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-15.38	0.2	-15.18	8	Pass
Middle	-15.57	0.2	-15.37	8	Pass
High	-15.65	0.2	-15.45	8	Pass

Note: The result basic equation calculation as follow:

$$\text{Final Power Spectral Density} = \text{PSD Reading} + \text{Cable loss}$$

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

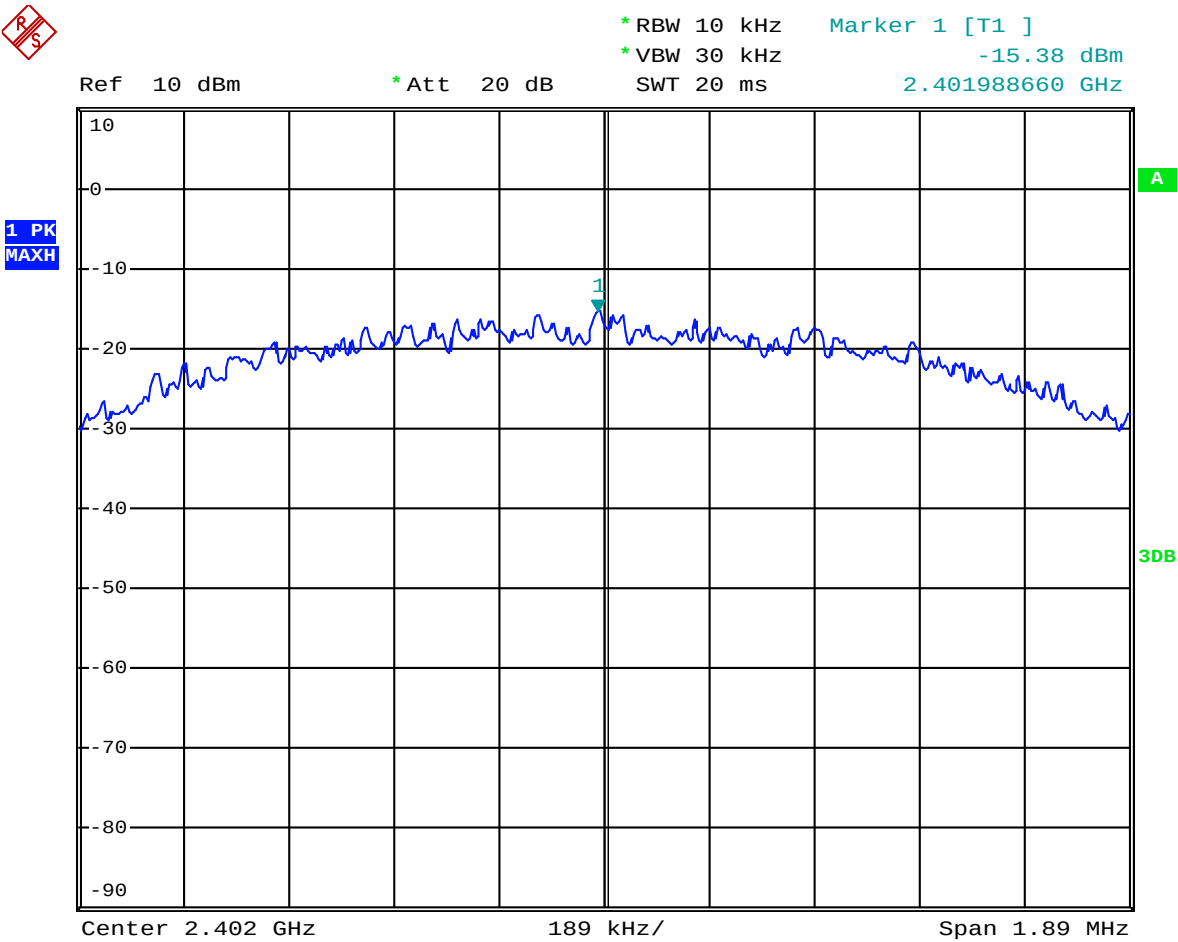
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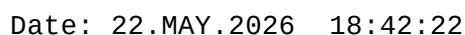
Test Figure:

1. Condition: Low Channel



Date: 22.MAY.2026 18:42:54

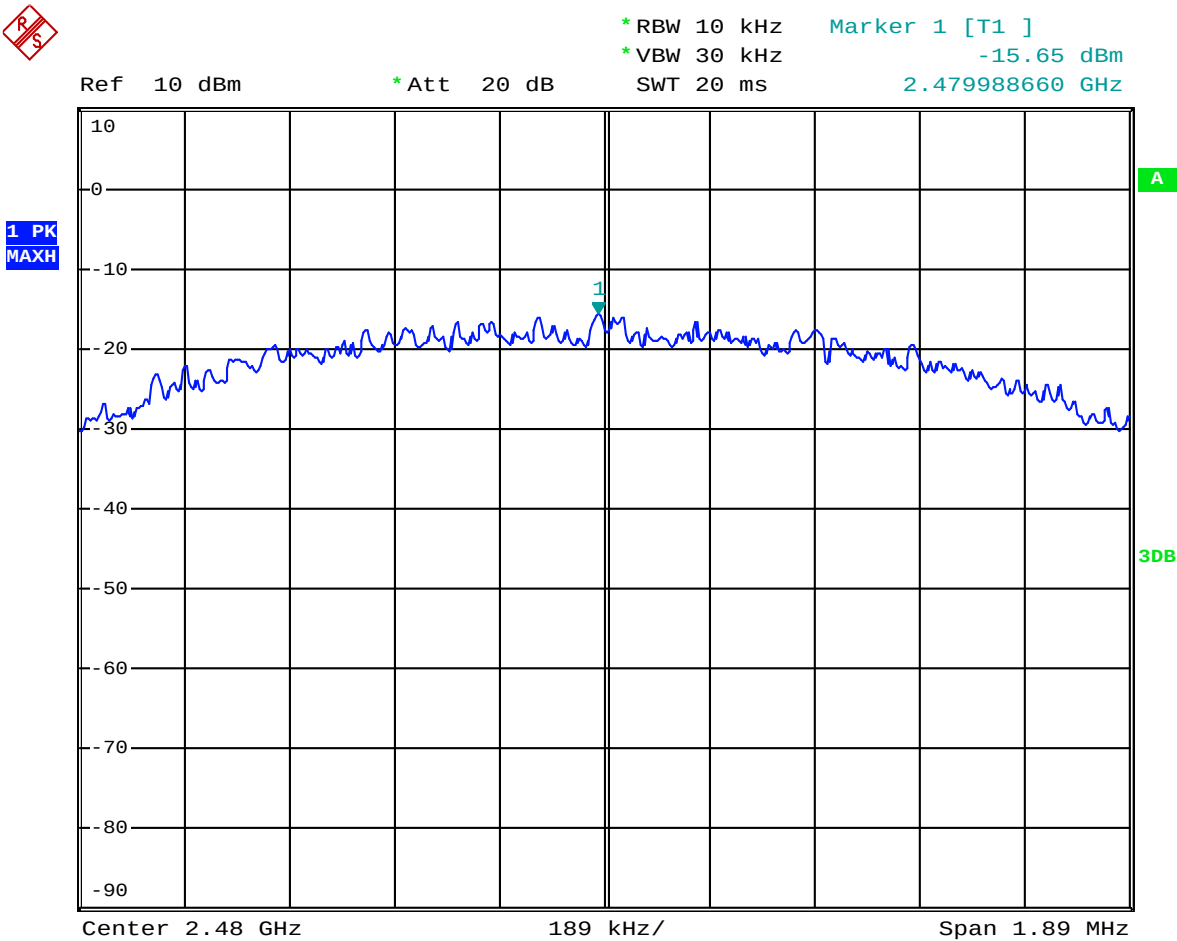
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3. High Channel



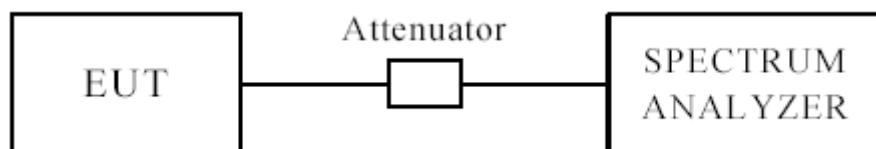
Date: 22.MAY.2026 18:41:40

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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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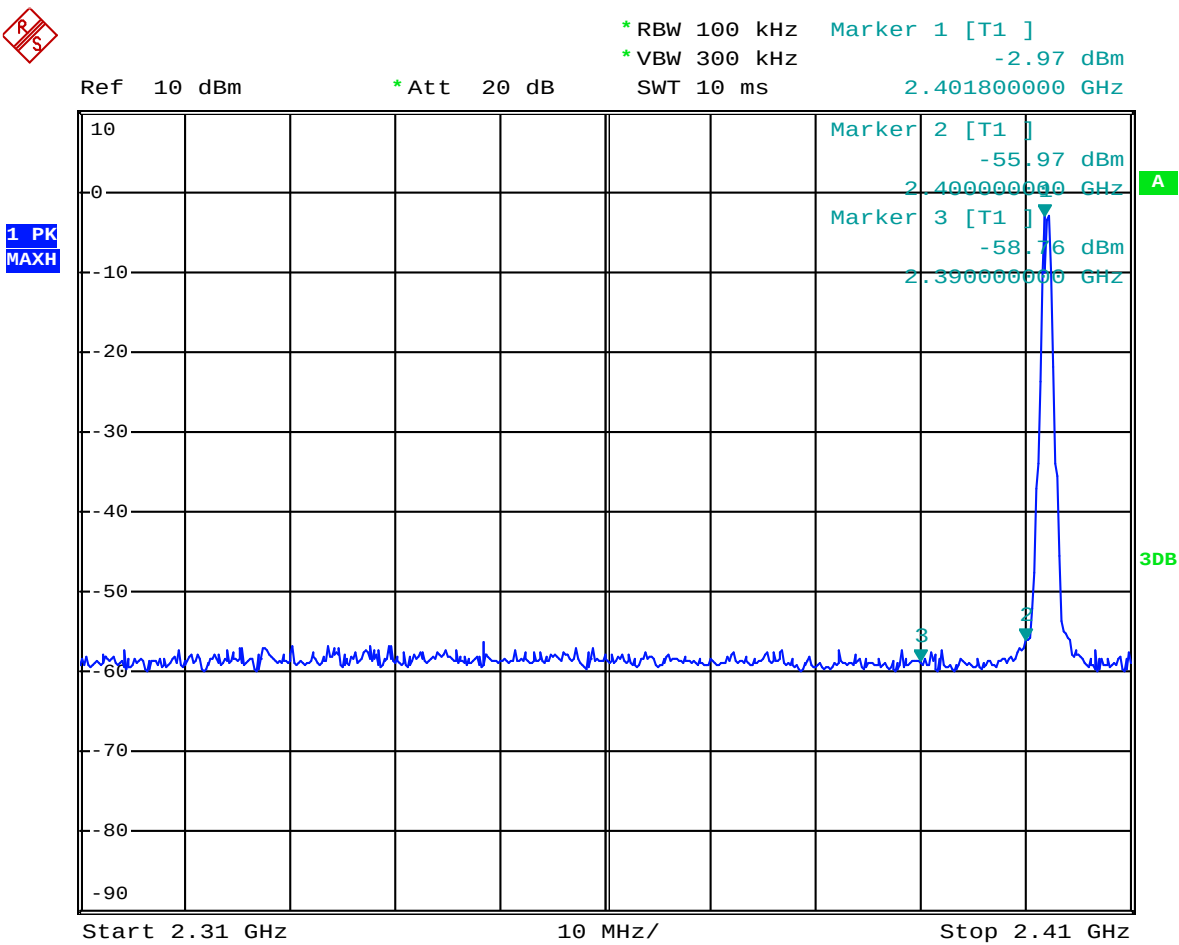


LE-1M

10.4 Band-edge Measurement

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 22.MAY.2026 18:29:25

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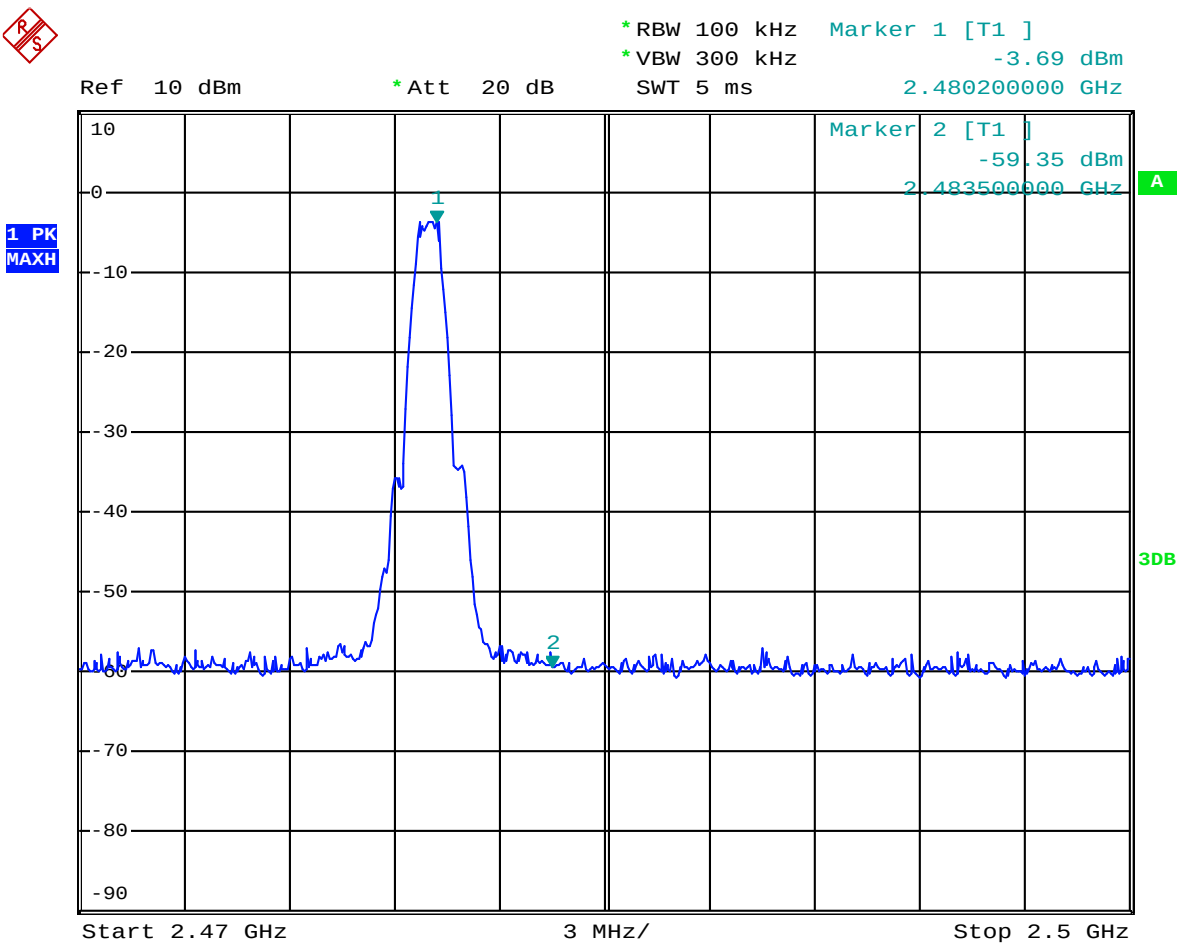


LE-1M

10.4 Band-edge Measurement

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keeping Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 22.MAY.2026 18:28:06

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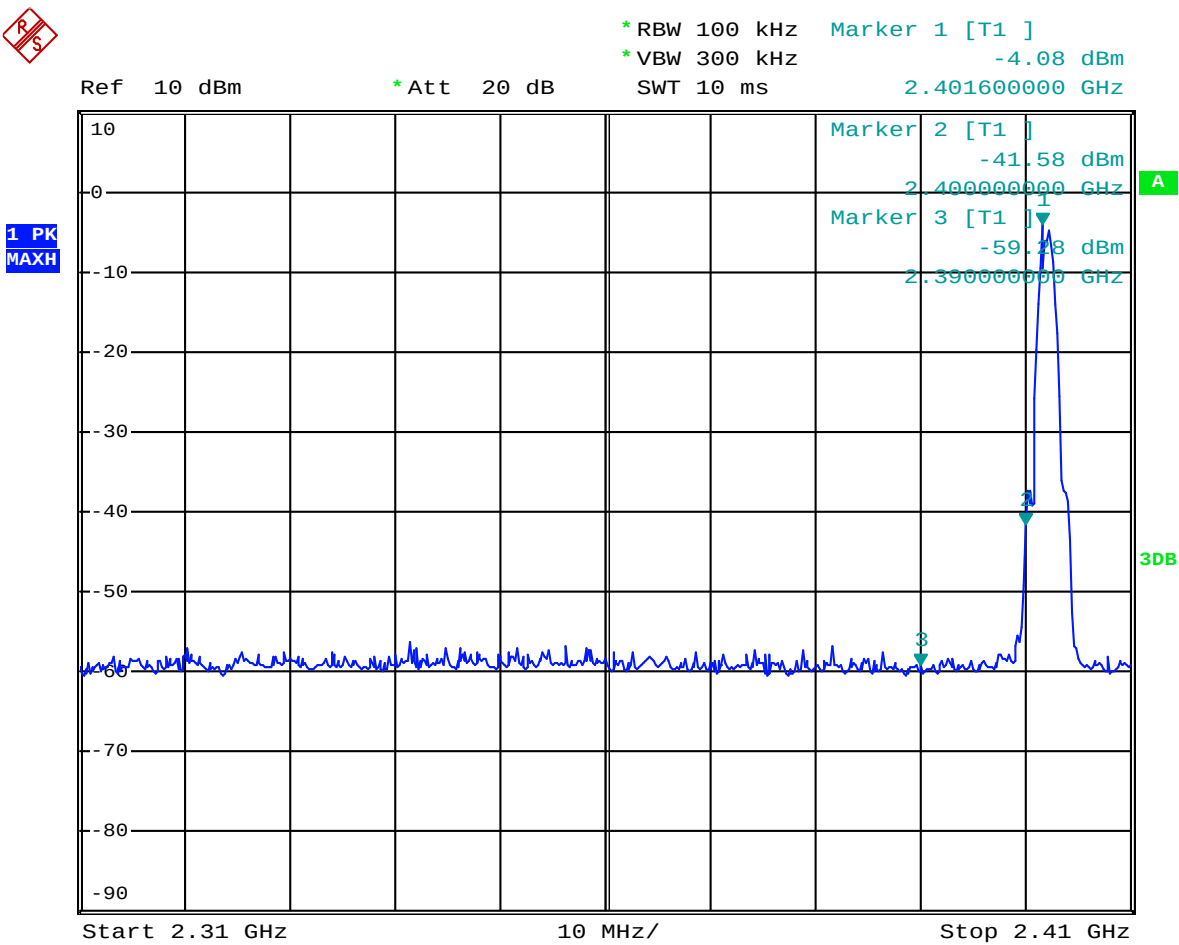


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 22.MAY.2026 18:30:24

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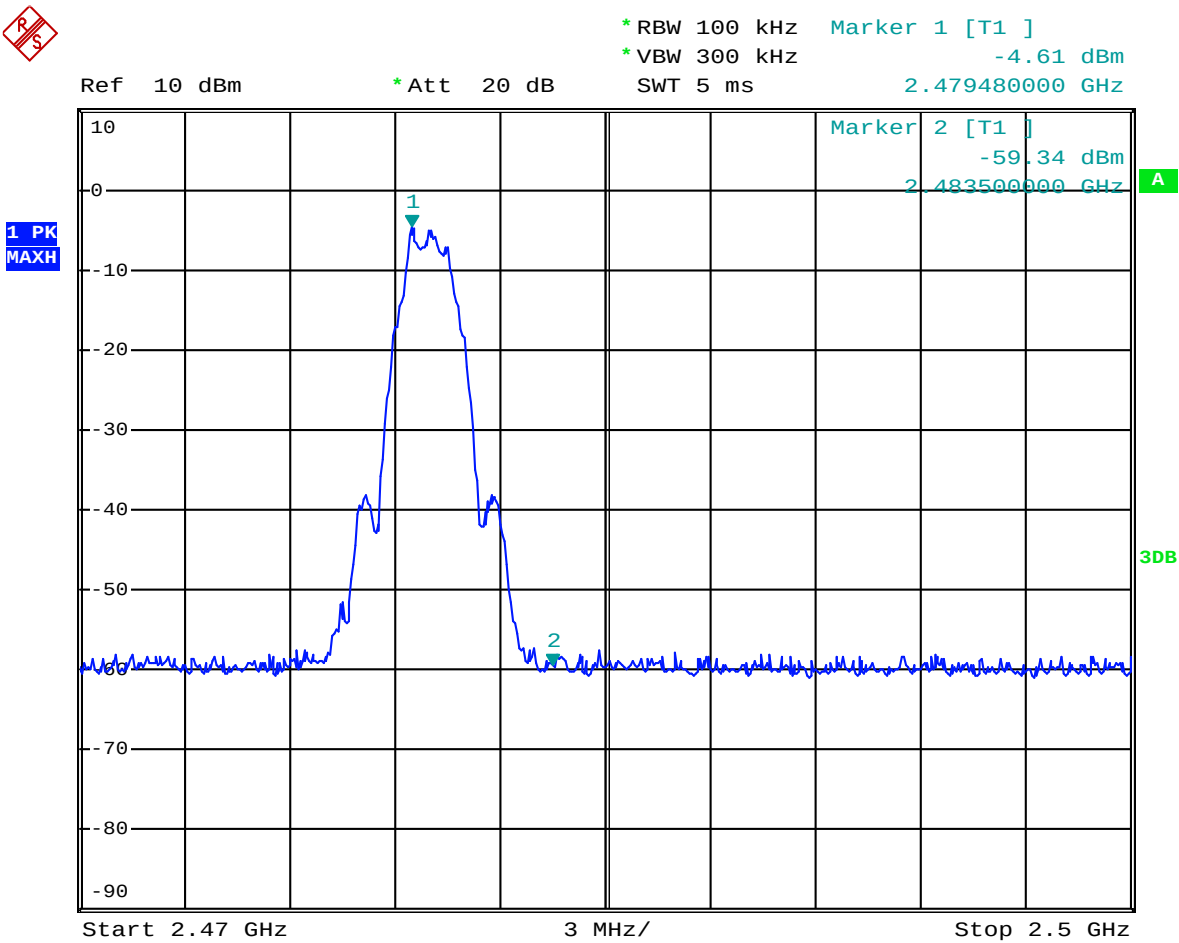


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keeping Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 22.MAY.2026 18:31:09

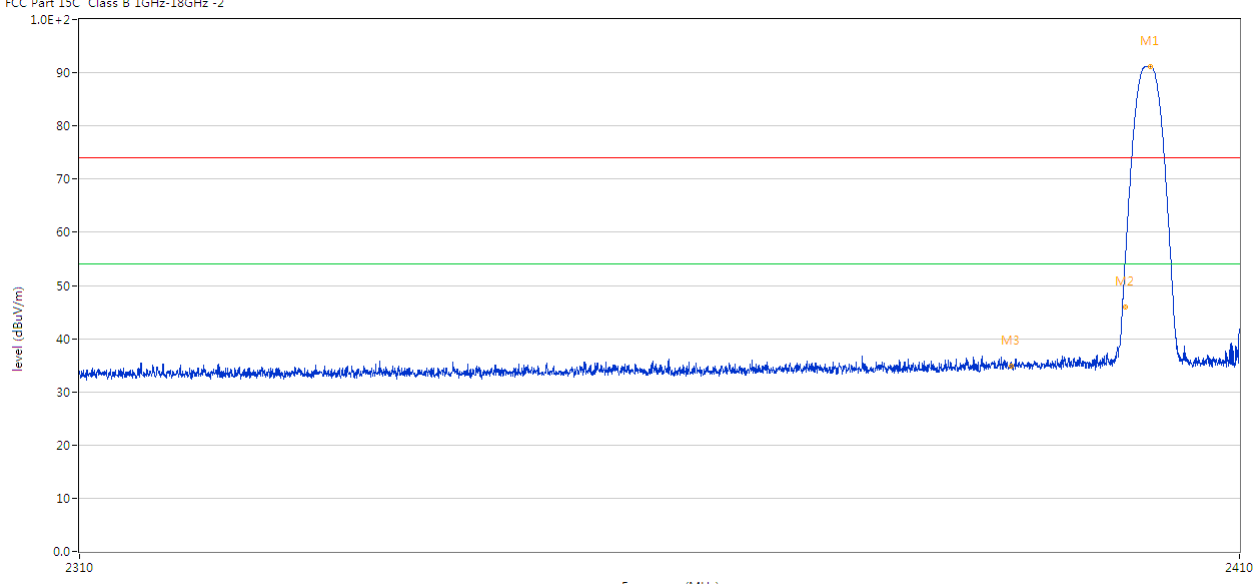
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10.4 Restrict Band Measurement

Dipole Antenna

LE-1M

EUT	Bluetooth module			Model	B113A-015-BLUE					
Mode	Keep Transmitting			Input Voltage	DC3.3V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass									
FCC Part 15C Class B 1GHz-18GHz -2 1.0E+2  level (dBuV/m) Frequency (MHz)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.200	91.20	-3.57	74.0	17.20	Peak	87.00	100	Horizontal	N/A
2	2400.000	56.02	-3.57	74.0	-17.98	Peak	87.00	100	Horizontal	Pass
2**	2400.000	45.98	-3.57	54.0	-8.02	AV	87.00	100	Horizontal	Pass
3	2390.000	34.78	-3.53	74.0	-39.22	Peak	48.00	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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10.4 Restrict Band Measurement

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

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	2401.700	80.79	-3.57	74.0	6.79	Peak	316.00	100	Vertical	N/A
2	2400.000	45.42	-3.57	74.0	-28.58	Peak	316.00	100	Vertical	Pass
3	2390.000	34.25	-3.53	74.0	-39.75	Peak	6.00	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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10.4 Restrict Band Measurement

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

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

1.0E+2

90

80

70

60

50

40

30

20

10

0.0

Level (dBuV/m)

2470

2483.5

2500

Frequency (MHz)

M1

M2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.713	90.86	-3.57	74.0	16.86	Peak	85.00	100	Horizontal	N/A
2	2483.500	36.11	-3.57	74.0	-37.89	Peak	78.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

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	2479.705	80.14	-3.57	74.0	6.14	Peak	309.00	100	Vertical	N/A
2	2483.500	35.98	-3.57	74.0	-38.02	Peak	152.00	100	Vertical	Pass

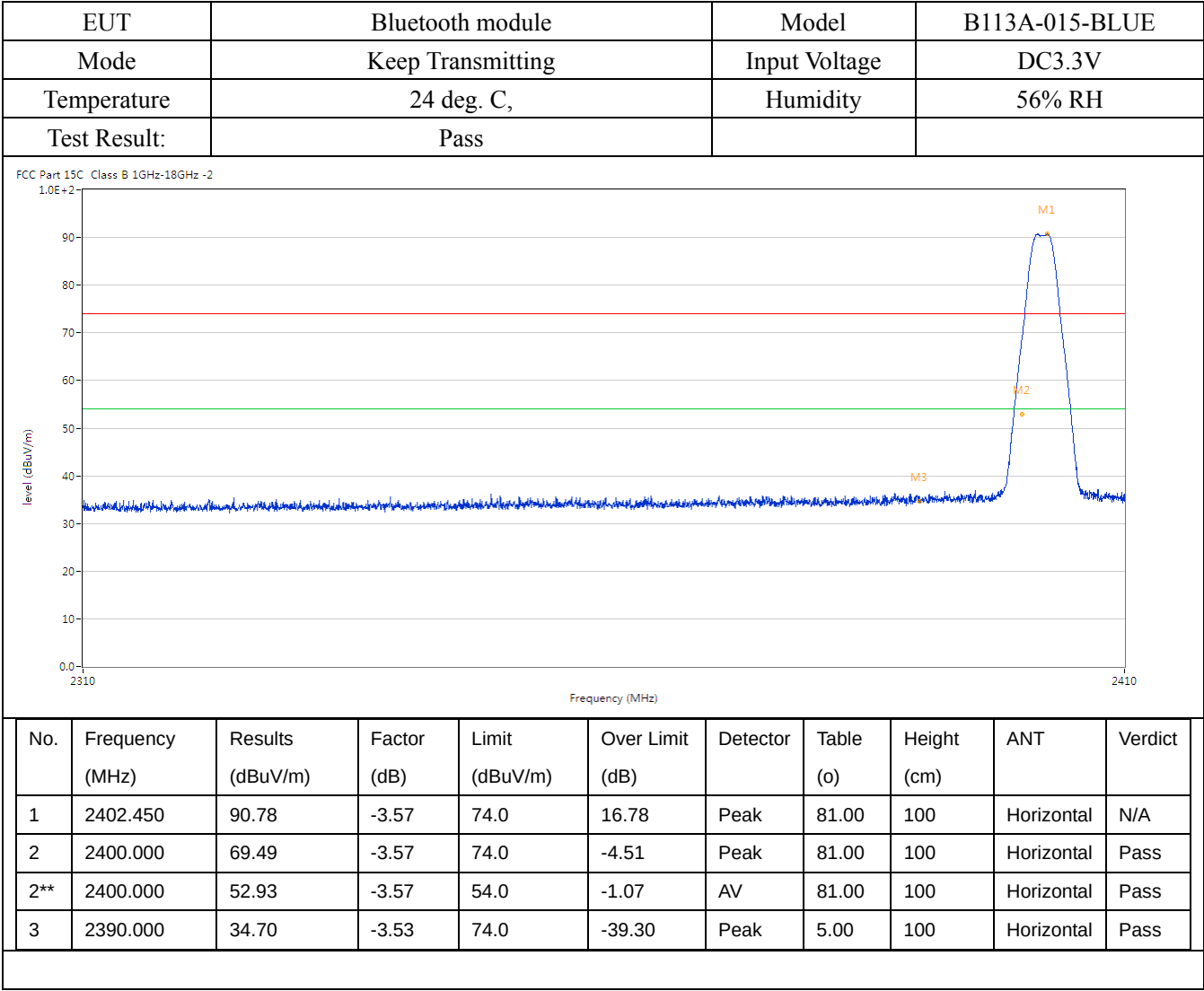
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LE-2M



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

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10.4 Restrict Band Measurement

EUT	Bluetooth module			Model	B113A-015-BLUE					
Mode	Keep Transmitting			Input Voltage	DC3.3V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass									
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	2401.475	80.78	-3.57	74.0	6.78	Peak	315.00	100	Vertical	N/A
2	2400.000	59.62	-3.57	74.0	-14.38	Peak	320.00	100	Vertical	Pass
2**	2400.000	43.76	-3.57	54.0	-10.24	AV	320.00	100	Vertical	Pass
3	2390.000	35.58	-3.53	74.0	-38.42	Peak	199.00	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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10.4 Restrict Band Measurement

EUT	Bluetooth module			Model	B113A-015-BLUE					
Mode	Keep Transmitting			Input Voltage	DC3.3V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass									
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	2479.450	90.53	-3.57	74.0	16.53	Peak	83.00	100	Horizontal	N/A
2	2483.500	39.26	-3.57	74.0	-34.74	Peak	7.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keep Transmitting	Input Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

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	2480.462	79.62	-3.57	74.0	5.62	Peak	309.00	100	Vertical	N/A
2	2483.500	35.69	-3.57	74.0	-38.31	Peak	332.00	100	Vertical	Pass

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FPC Antenna

LE-1M

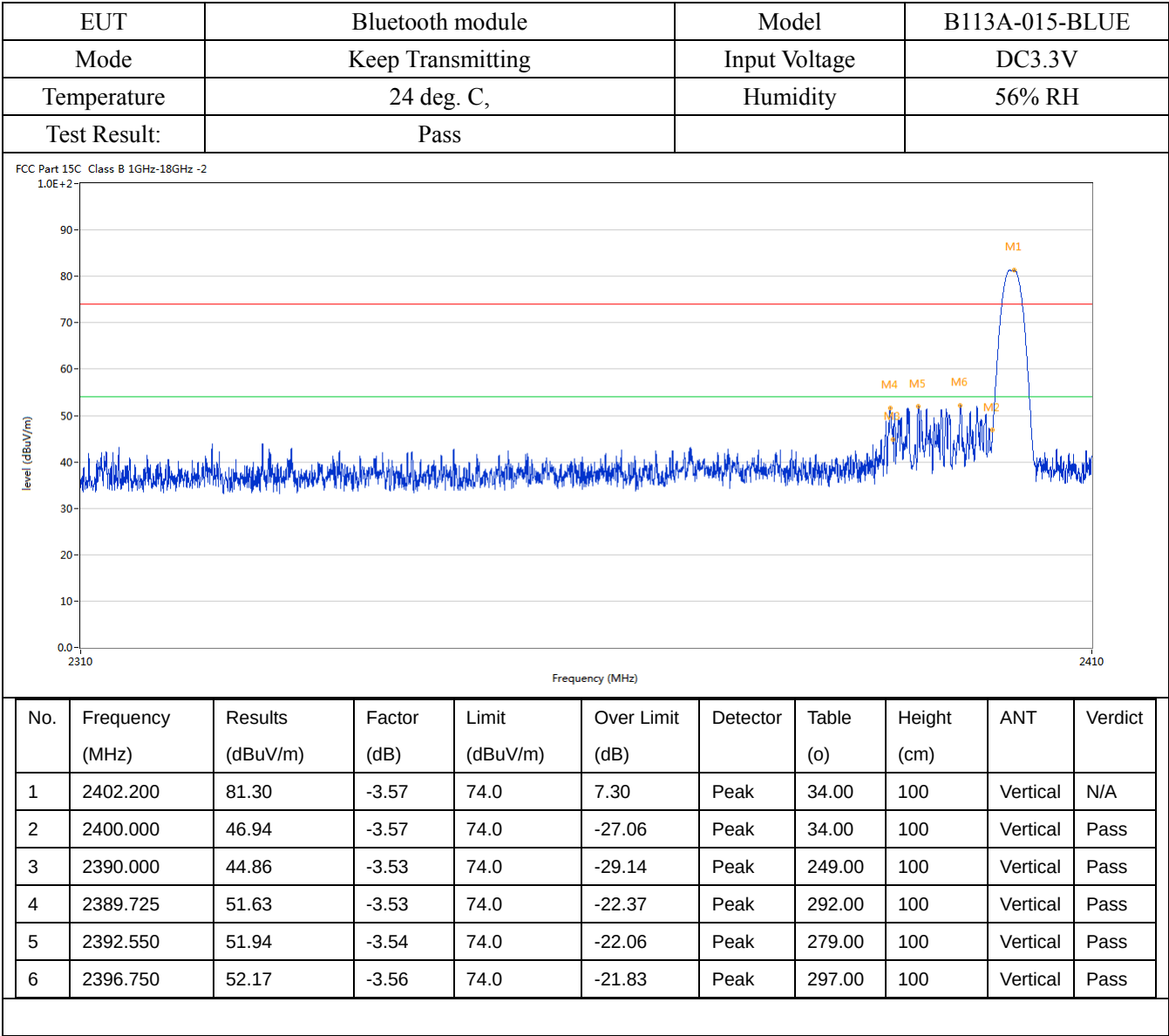
EUT	Bluetooth module			Model	B113A-015-BLUE																																																																			
Mode	Keep Transmitting			Input Voltage	DC3.3V																																																																			
Temperature	24 deg. C,			Humidity	56% RH																																																																			
Test Result:	Pass																																																																							
FCC Part 15C Class B 1GHz-18GHz -2 1.0E+2 No. Frequency Results Factor Limit Over Limit Detector Table Height ANT Verdict <table><tr><td>1</td><td>2402.225</td><td>90.02</td><td>-3.57</td><td>74.0</td><td>16.02</td><td>Peak</td><td>129.00</td><td>100</td><td>Horizontal</td><td>N/A</td></tr><tr><td>2</td><td>2400.000</td><td>55.10</td><td>-3.57</td><td>74.0</td><td>-18.90</td><td>Peak</td><td>133.00</td><td>100</td><td>Horizontal</td><td>Pass</td></tr><tr><td>2**</td><td>2400.000</td><td>44.98</td><td>-3.57</td><td>54.0</td><td>-9.02</td><td>AV</td><td>133.00</td><td>100</td><td>Horizontal</td><td>Pass</td></tr><tr><td>3</td><td>2390.000</td><td>36.51</td><td>-3.53</td><td>74.0</td><td>-37.49</td><td>Peak</td><td>57.00</td><td>100</td><td>Horizontal</td><td>Pass</td></tr><tr><td>4</td><td>2389.725</td><td>44.06</td><td>-3.53</td><td>74.0</td><td>-29.94</td><td>Peak</td><td>57.00</td><td>100</td><td>Horizontal</td><td>Pass</td></tr><tr><td>5</td><td>2392.500</td><td>44.36</td><td>-3.54</td><td>74.0</td><td>-29.64</td><td>Peak</td><td>214.00</td><td>100</td><td>Horizontal</td><td>Pass</td></tr></table>							1	2402.225	90.02	-3.57	74.0	16.02	Peak	129.00	100	Horizontal	N/A	2	2400.000	55.10	-3.57	74.0	-18.90	Peak	133.00	100	Horizontal	Pass	2**	2400.000	44.98	-3.57	54.0	-9.02	AV	133.00	100	Horizontal	Pass	3	2390.000	36.51	-3.53	74.0	-37.49	Peak	57.00	100	Horizontal	Pass	4	2389.725	44.06	-3.53	74.0	-29.94	Peak	57.00	100	Horizontal	Pass	5	2392.500	44.36	-3.54	74.0	-29.64	Peak	214.00	100	Horizontal	Pass
1	2402.225	90.02	-3.57	74.0	16.02	Peak	129.00	100	Horizontal	N/A																																																														
2	2400.000	55.10	-3.57	74.0	-18.90	Peak	133.00	100	Horizontal	Pass																																																														
2**	2400.000	44.98	-3.57	54.0	-9.02	AV	133.00	100	Horizontal	Pass																																																														
3	2390.000	36.51	-3.53	74.0	-37.49	Peak	57.00	100	Horizontal	Pass																																																														
4	2389.725	44.06	-3.53	74.0	-29.94	Peak	57.00	100	Horizontal	Pass																																																														
5	2392.500	44.36	-3.54	74.0	-29.64	Peak	214.00	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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10.4 Restrict Band Measurement



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

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10.4 Restrict Band Measurement

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

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

1.0E+2

90

80

70

60

50

40

30

20

10

0.0

level (dBuV/m)

2470

2483.5

2500

Frequency (MHz)

M1

M2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.215	90.04	-3.57	74.0	16.04	Peak	88.00	100	Horizontal	N/A
2	2483.500	36.16	-3.57	74.0	-37.84	Peak	354.00	100	Horizontal	Pass

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10.4 Restrict Band Measurement

EUT	Bluetooth module			Model	B113A-015-BLUE					
Mode	Keep Transmitting			Input Voltage	DC3.3V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass									
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	2479.705	81.05	-3.57	74.0	7.05	Peak	41.00	100	Vertical	N/A
2	2483.500	36.05	-3.57	74.0	-37.95	Peak	193.00	100	Vertical	Pass

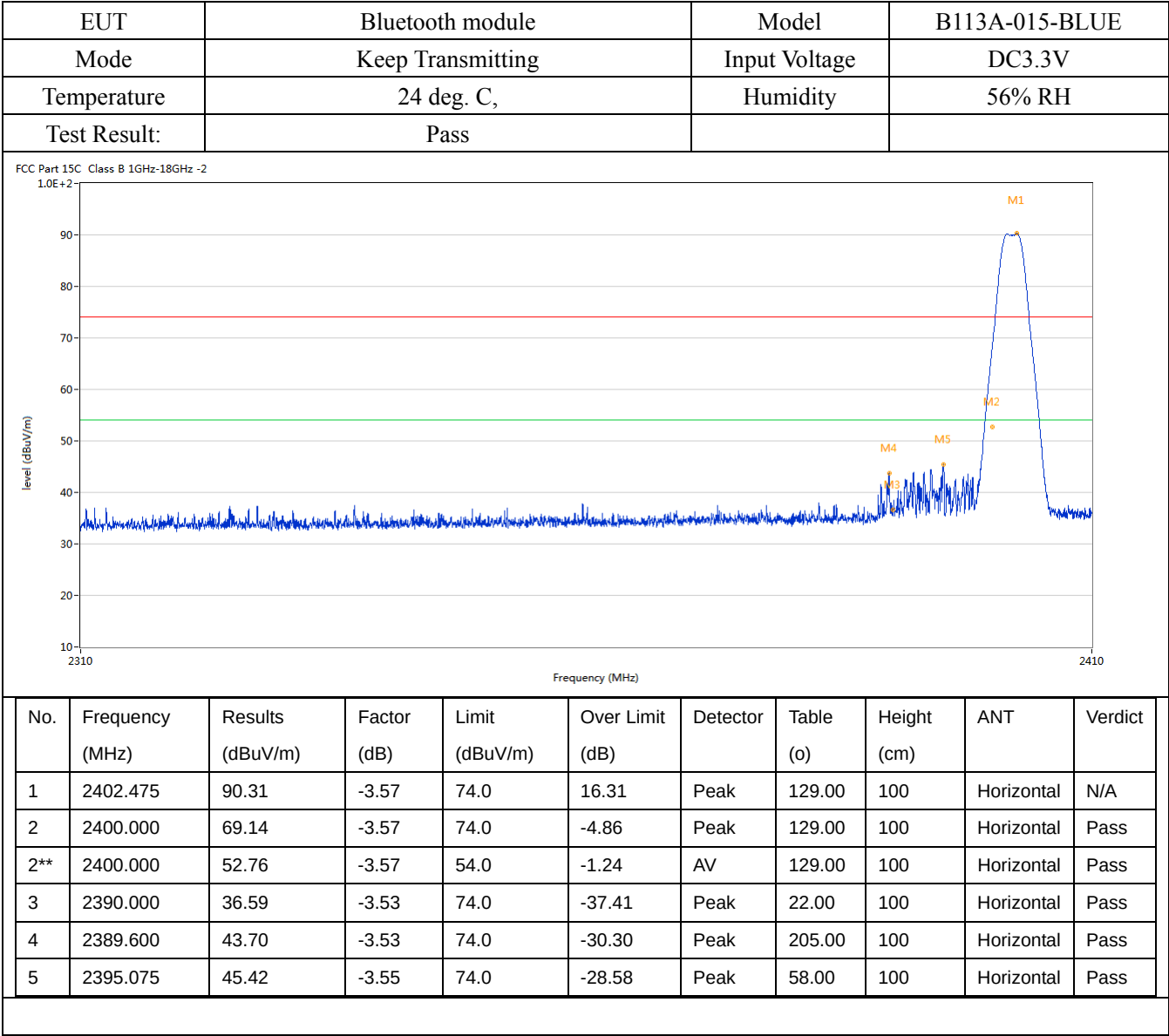
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LE-2M



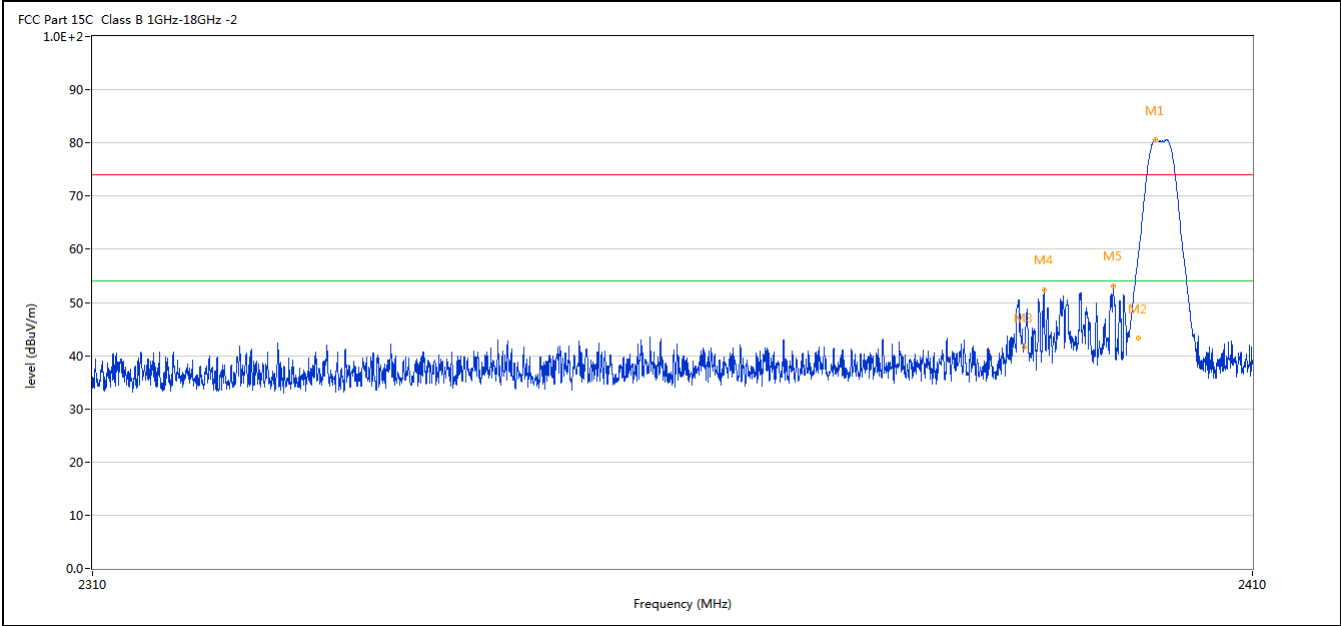
Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	Bluetooth module	Model	B113A-015-BLUE
Mode	Keep Transmitting	Input Voltage	DC3.3V
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	2401.475	80.69	-3.57	74.0	6.69	Peak	33.00	100	Vertical	N/A
2	2400.000	59.43	-3.57	74.0	-14.57	Peak	30.00	100	Vertical	Pass
2**	2400.000	43.31	-3.57	54.0	-10.69	AV	30.00	100	Vertical	Pass
3	2390.000	41.65	-3.53	74.0	-32.35	Peak	83.00	100	Vertical	Pass
4	2391.700	52.37	-3.54	74.0	-21.63	Peak	271.00	100	Vertical	Pass
5	2397.800	53.13	-3.56	74.0	-20.87	Peak	294.00	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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10.4 Restrict Band Measurement

EUT	Bluetooth module		Model	B113A-015-BLUE	
Mode	Keep Transmitting		Input Voltage	DC3.3V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

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

1.0E+2

90

80

70

60

50

40

30

20

10

0.0

level (dBuV/m)

2470

2483.5

2500

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.465	90.46	-3.57	74.0	16.46	Peak	118.00	100	Horizontal	N/A
2	2483.500	37.92	-3.57	74.0	-36.08	Peak	118.00	100	Horizontal	Pass

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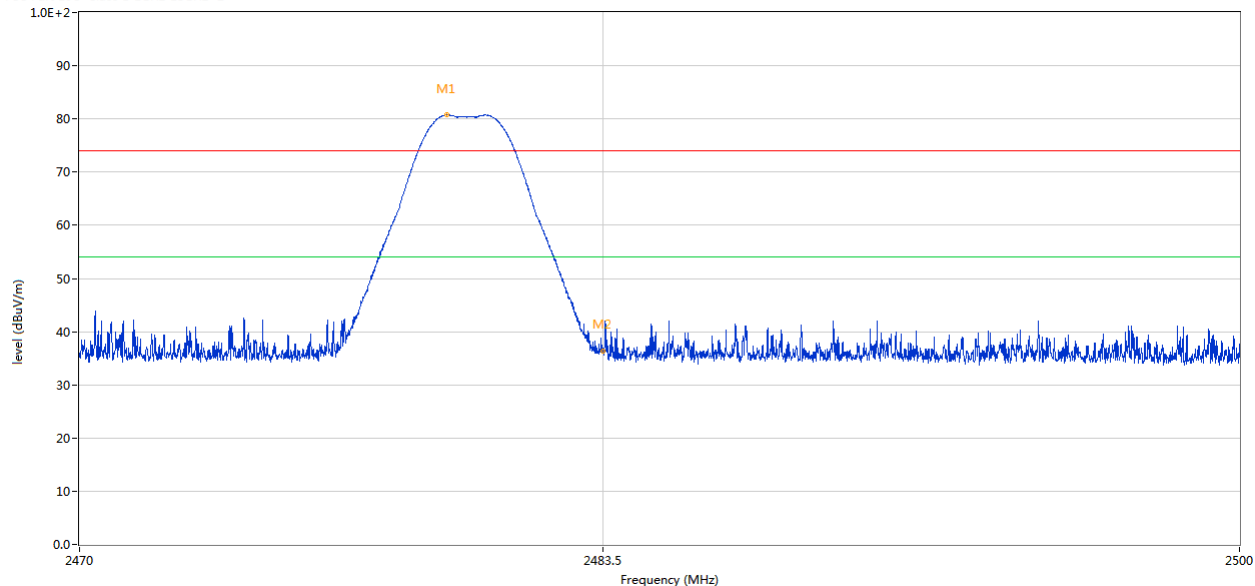
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10.4 Restrict Band Measurement

EUT	Bluetooth module			Model	B113A-015-BLUE					
Mode	Keep Transmitting			Input Voltage	DC3.3V					
Temperature	24 deg. C,			Humidity	56% RH					
Test Result:	Pass									

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	2479.450	80.74	-3.57	74.0	6.74	Peak	40.00	100	Vertical	N/A
2	2483.500	36.38	-3.57	74.0	-37.62	Peak	0.00	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 amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Alternative antennas provided to the EUT.

1. Dipole Antenna with revers polarity antenna connector. The gain of the antennas is 4.13dBi (Get from the antenna specification provided the manufacturer)
2. FPC Antenna with revers polarity antenna connector. The gain of the antennas is 3.97dBi (Get from the antenna specification provided the manufacturer)

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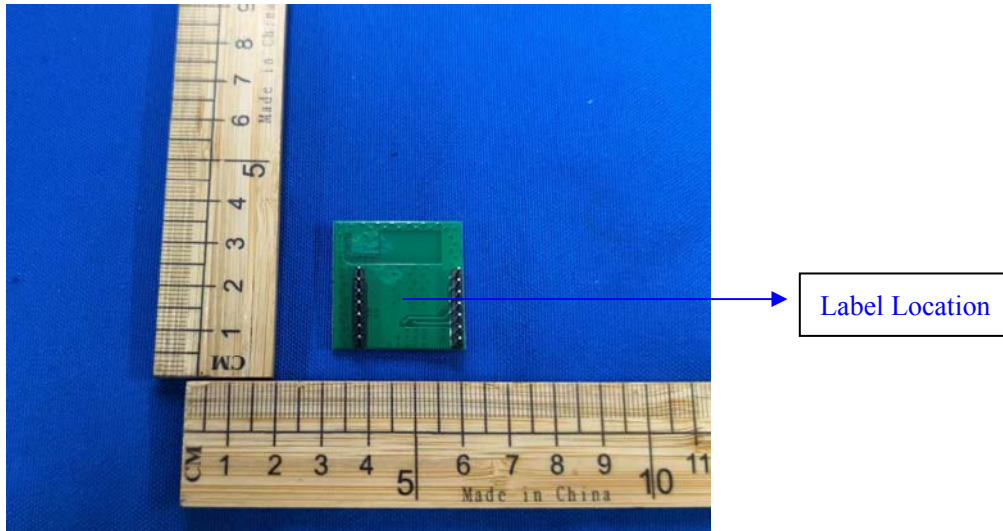


12.0 FCC ID Label

FCC ID: 2BBZS-B113015BL

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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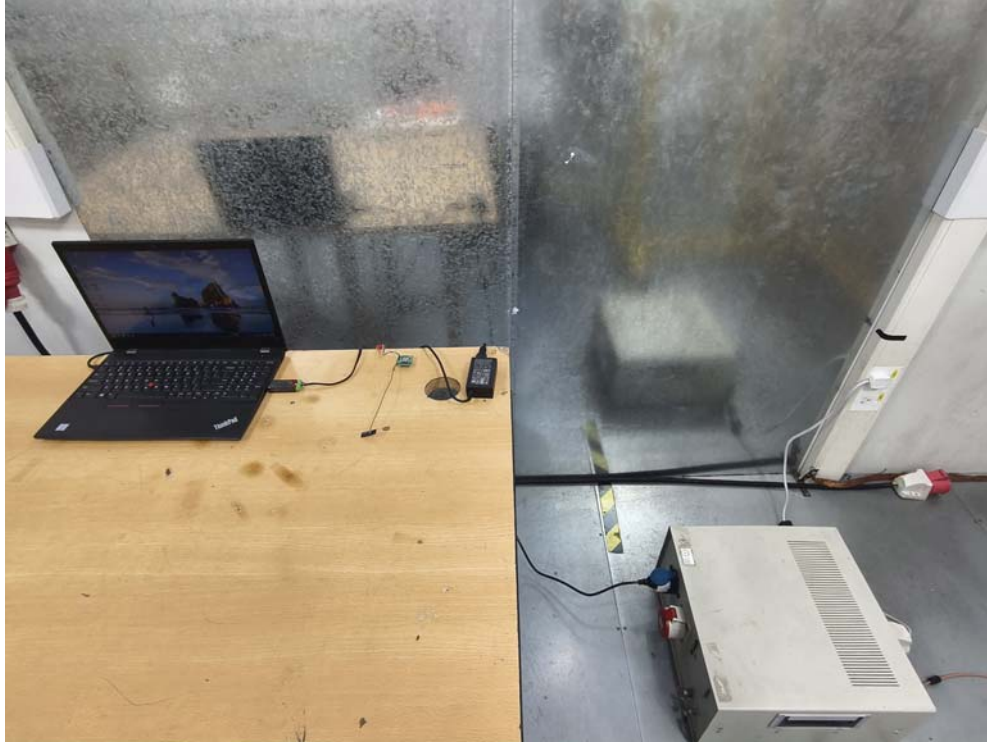
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13.0 Photo of testing

Conducted Emission Test Setup:



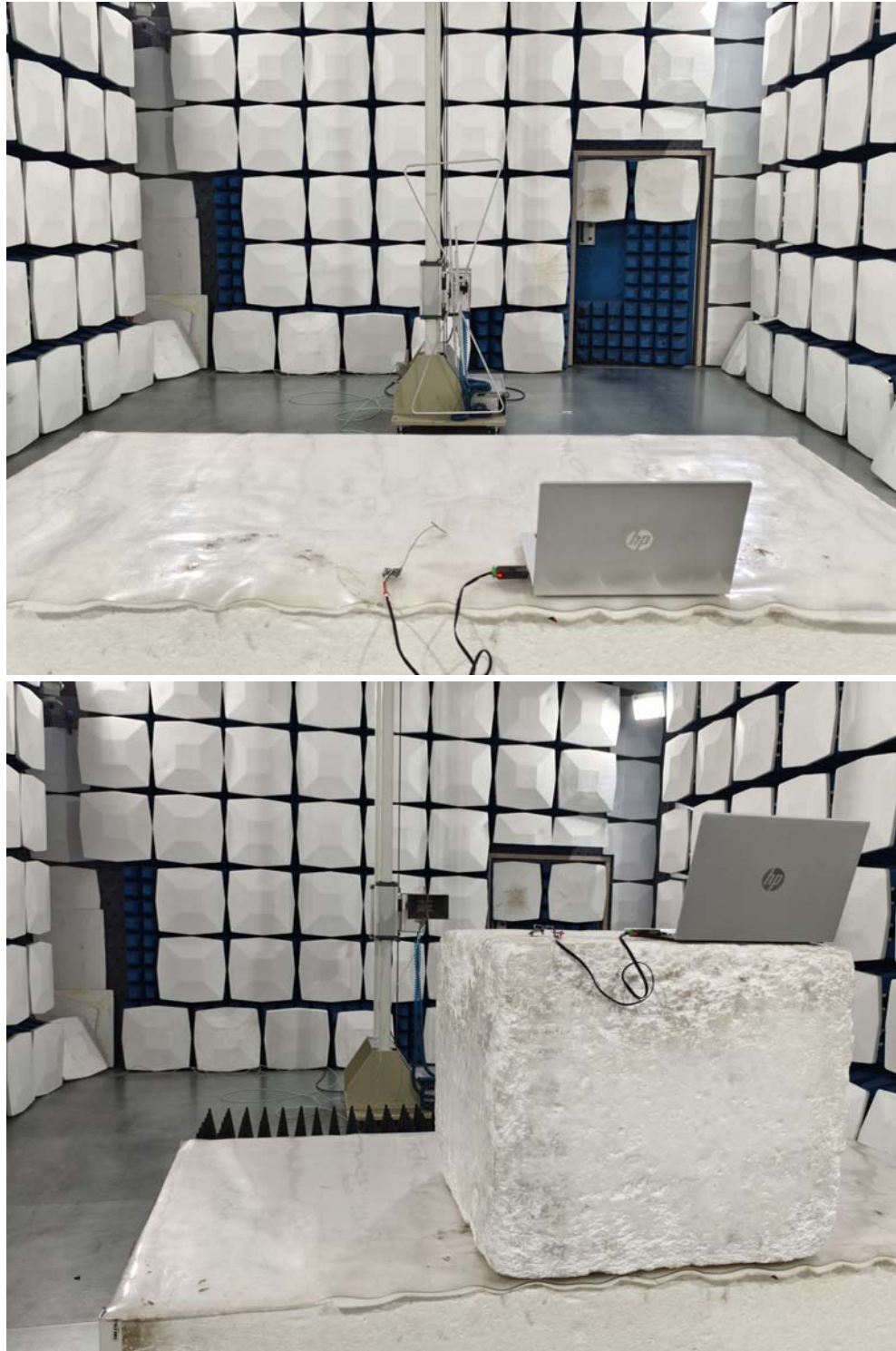
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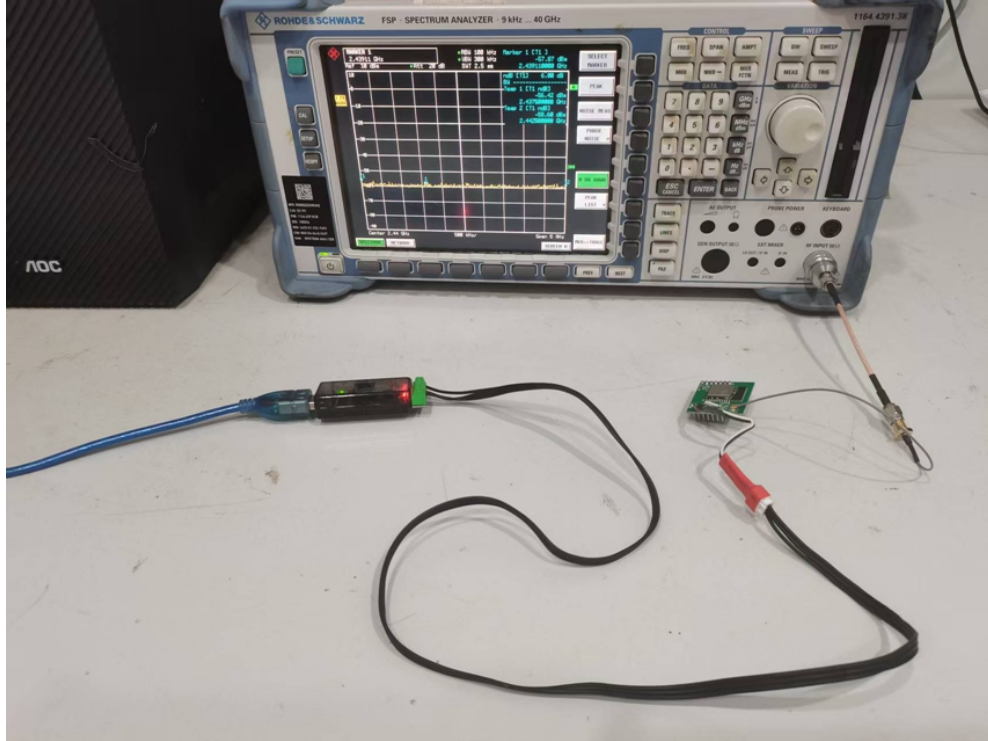
Radiated Emission Test Setup:



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RF test view



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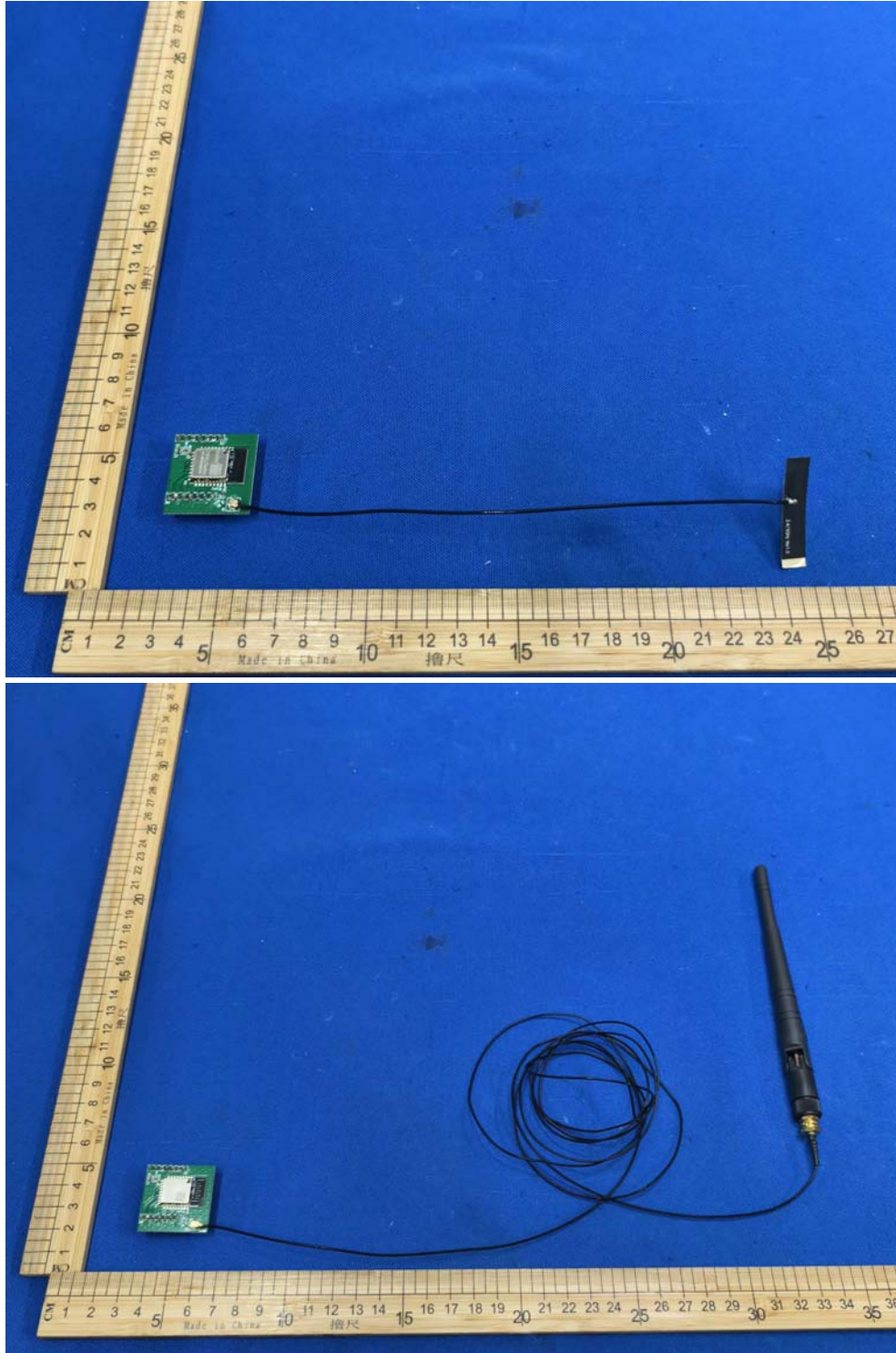
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Photographs – EUT

Outside View



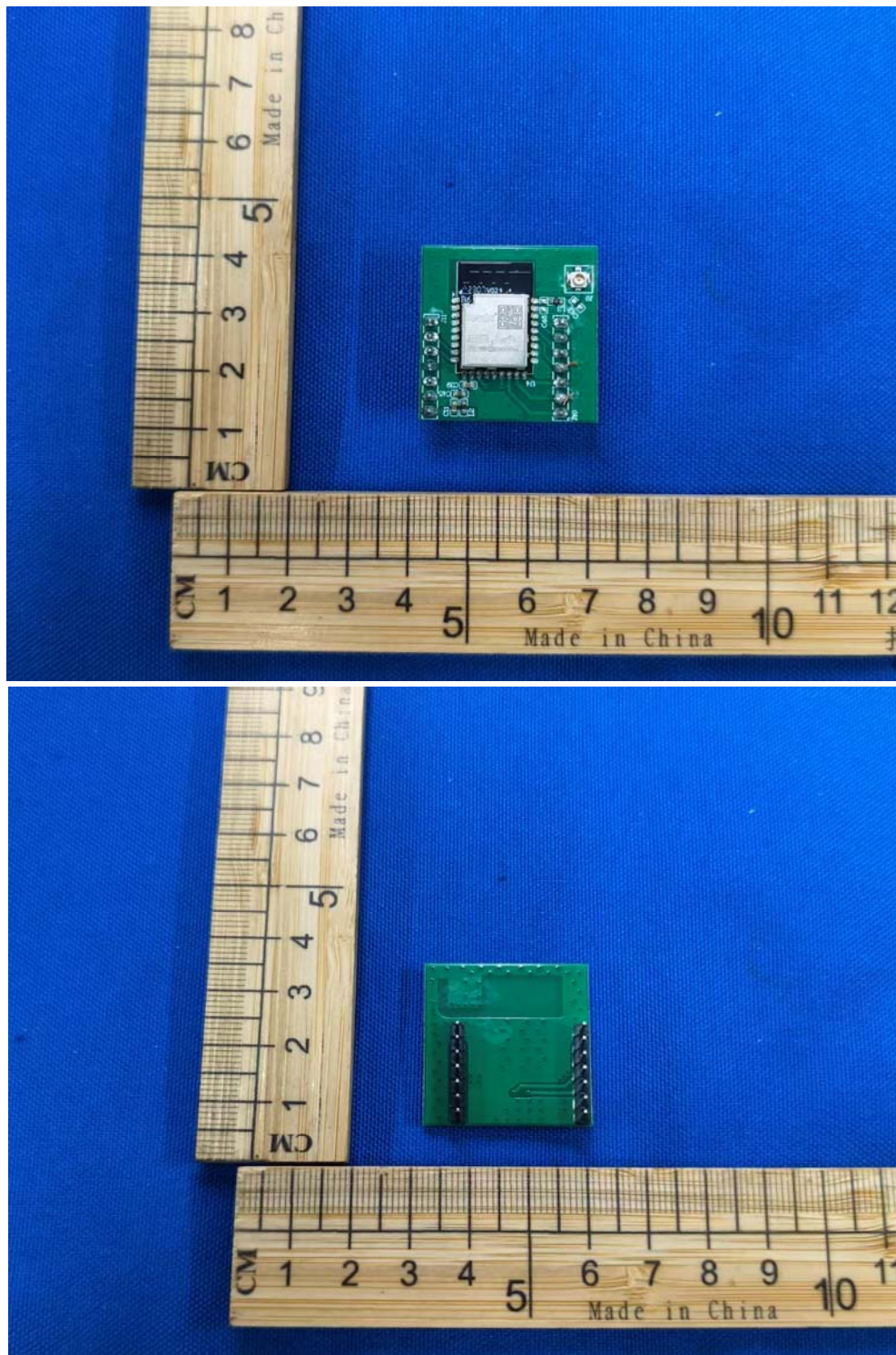
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Outside View



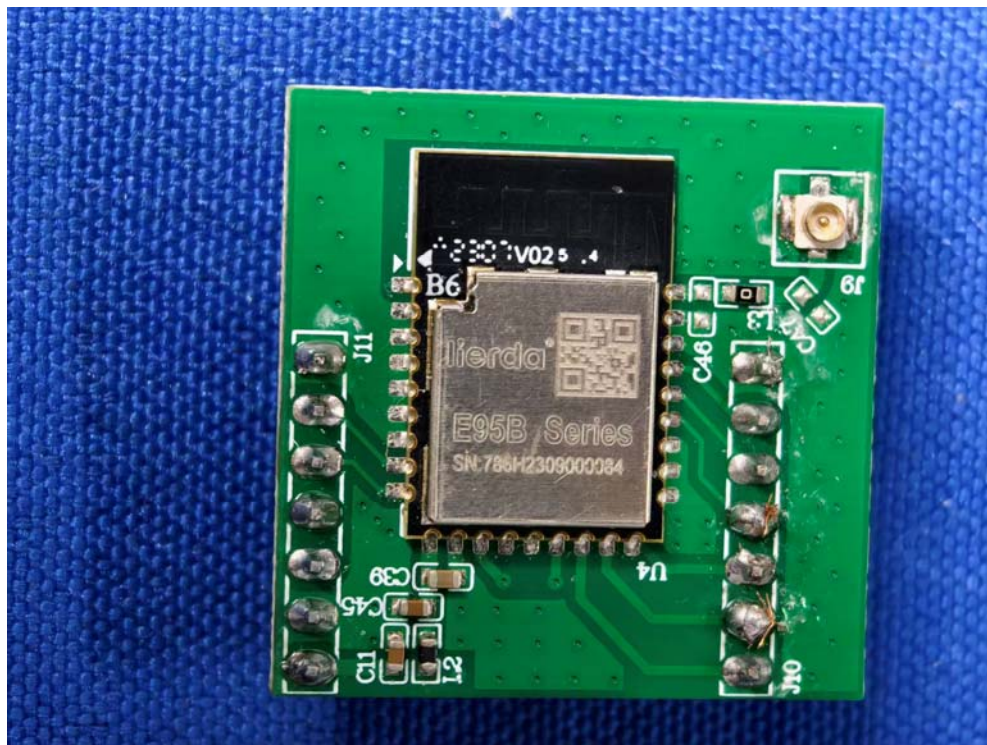
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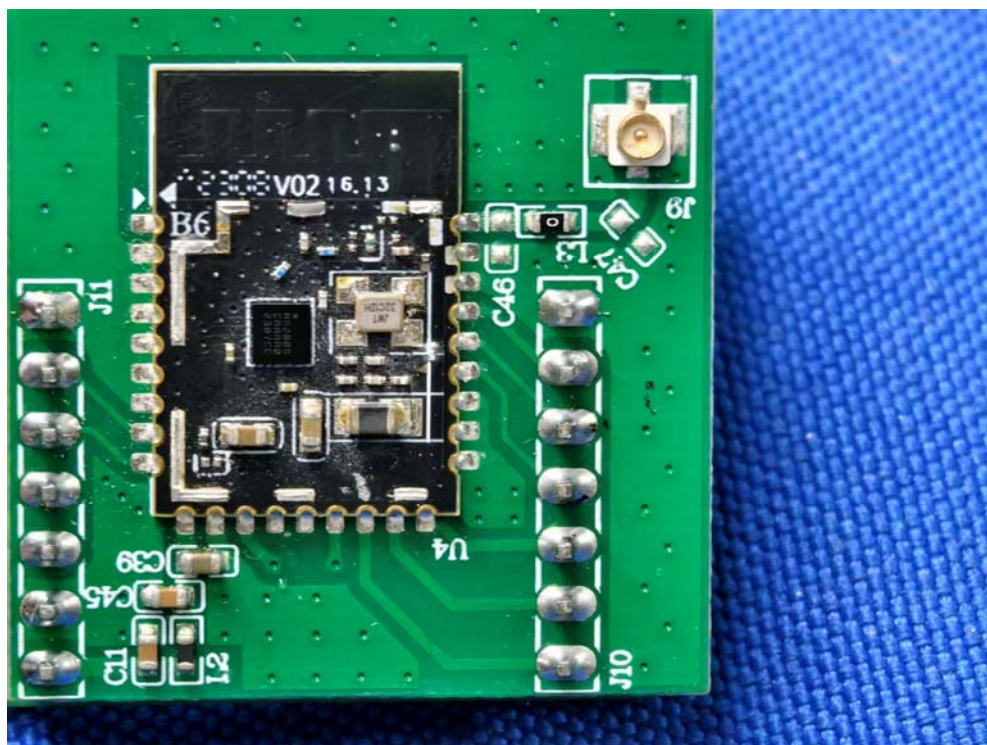
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Outside View



Inside View



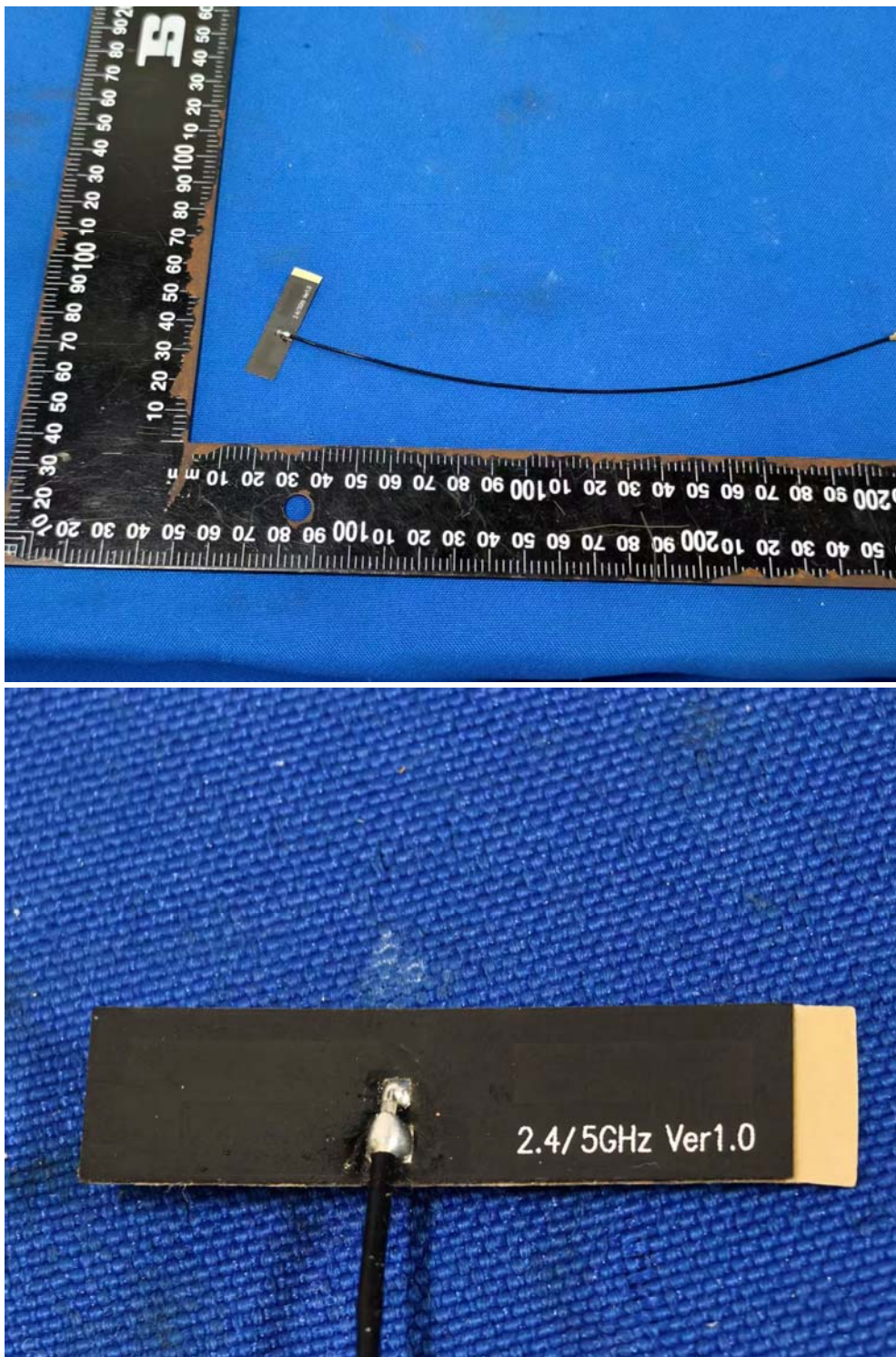
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FPC Antenna



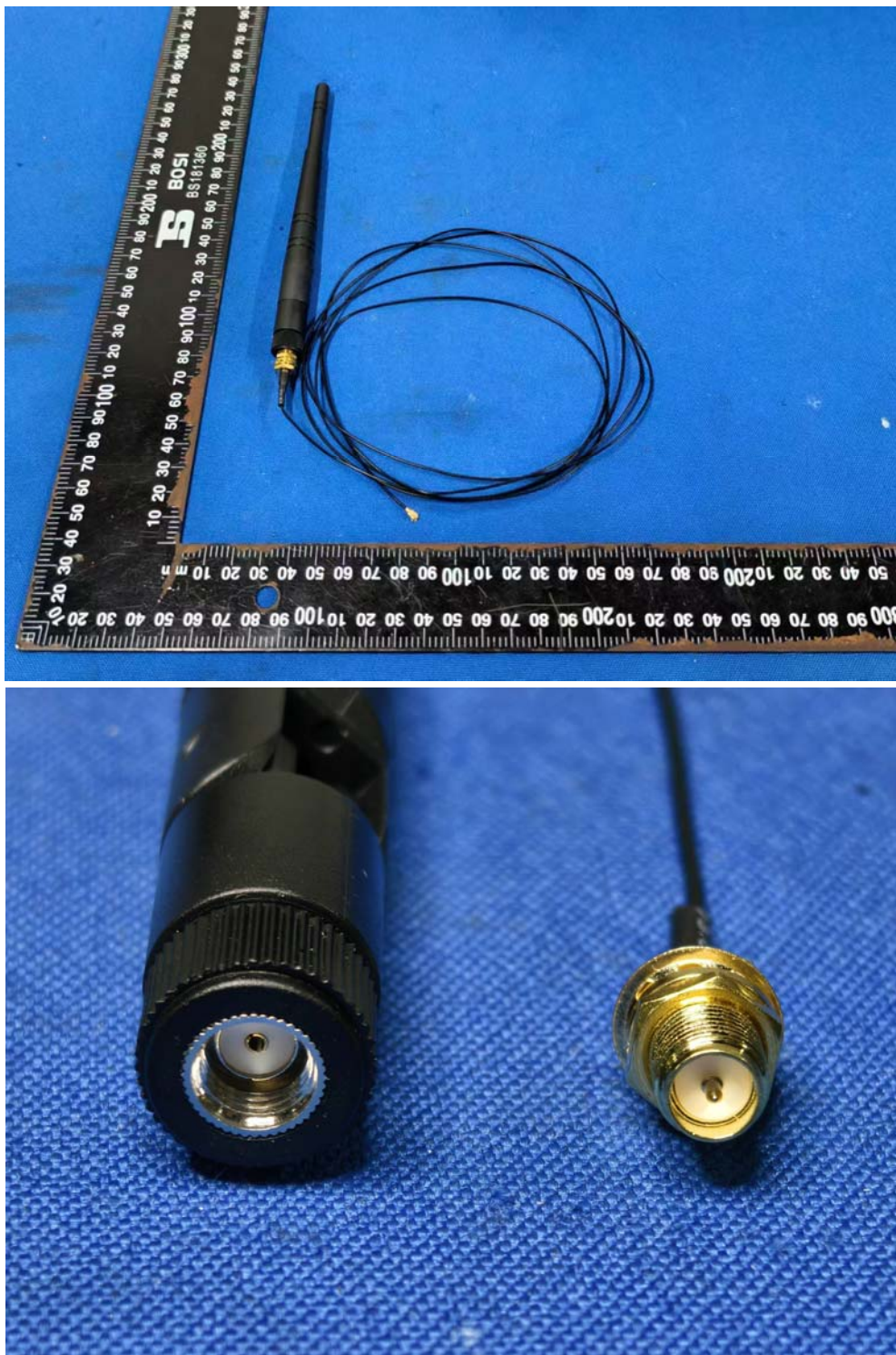
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Dipole Antenna



End of the report

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