

TEST REPORT

Report No.: SHE25070059-06DE

Date: 2025-09-11

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Applicant : Keeson Technology Corporation Limited
Address of Applicant : No.158, Qiumao Road, Wangjiangjing, Xiuzhou district,
Jiaxing, Zhejiang, China

Product Name : CONTROL BOX
Brand Name : N/A
Model Name : MC332
Sample Acquisition Method : Sent by Client
Sample No. : E25070059-02#03
E25070059-02#04
FCC ID : 2AK23MC332

Standards : FCC CFR47 Part 15, Subpart C Section 15.249

Date of Receipt : 2025-07-21
Date of Test : 2025-07-25 ~ 2025-09-03
Date of Issue : 2025-09-11

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



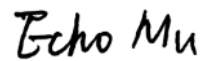
(Erik Yang)

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(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	Keeson Technology Corporation Limited
Applicant Company Address	No.158, Qiumao Road, Wangjiangjing, Xiuzhou district, Jiaxing, Zhejiang, China
Contact Person	Sam xu
Telephone	18279170755
Email	Sam.Xu@keeson.com
Manufacturer Company Name	Ergo Intelligent Technology (Jiaxing) Co., Ltd.
Manufacturer Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Factory Company Name	Ergo Intelligent Technology (Jiaxing) Co., Ltd.
Factory Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.

1.3 Details of EUT

Product Name	CONTROL BOX
Brand Name	N/A
Test Model Name	MC332
FCC ID	2AK23MC332
Operation Frequency	2403MHz ~ 2480MHz
Maximum Field Strength	93.28dBuV/m(Peak)@3m
Number of Channels	78
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	0dBi
Extreme Temperature Range	-10°C ~ +40°C
Test Voltage	DC 29V supply by adapter
Hardware Version	V1.2
Software Version	V1.0
RF power setting in TEST SW	Enter the fixed frequency mode by pressing the key_Default power

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- Note:
- 1. The above information was declared by the manufacture.
 - 2. For more details, please refer to the User's manual of the EUT.

Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2.403GHz	28	2.430GHz	55	2.457GHz
2	2.404GHz	29	2.431GHz	56	2.458GHz
3	2.405GHz	30	2.432GHz	57	2.459GHz
4	2.406GHz	31	2.433GHz	58	2.460GHz
5	2.407GHz	32	2.434GHz	59	2.461GHz
6	2.408GHz	33	2.435GHz	60	2.462GHz
7	2.409GHz	34	2.436GHz	61	2.463GHz
8	2.410GHz	35	2.437GHz	62	2.464GHz
9	2.411GHz	36	2.438GHz	63	2.465GHz
10	2.412GHz	37	2.439GHz	64	2.466GHz
11	2.413GHz	38	2.440GHz	65	2.467GHz
12	2.414GHz	39	2.441GHz	66	2.468GHz
13	2.415GHz	40	2.442GHz	67	2.469GHz
14	2.416GHz	41	2.443GHz	68	2.470GHz
15	2.417GHz	42	2.444GHz	69	2.471GHz
16	2.418GHz	43	2.445GHz	70	2.472GHz
17	2.419GHz	44	2.446GHz	71	2.473GHz
18	2.420GHz	45	2.447GHz	72	2.474GHz
19	2.421GHz	46	2.448GHz	73	2.475GHz
20	2.422GHz	47	2.449GHz	74	2.476GHz
21	2.423GHz	48	2.450GHz	75	2.477GHz
22	2.424GHz	49	2.451GHz	76	2.478GHz
23	2.425GHz	50	2.452GHz	77	2.479GHz
24	2.426GHz	51	2.453GHz	78	2.480GHz
25	2.427GHz	52	2.454GHz		
26	2.428GHz	53	2.455GHz		
27	2.429GHz	54	2.456GHz		

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1.4 Test Methodology

47 CFR Part 15, Subpart C	Telecommunication-Radio Frequency Devices-Intentional Radiators
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.5 Test Summary

Test Item	FCC Rules	Result
Antenna Requirement	Part 15.203	PASS
Radiated Emission	FCC Part 15.249(a), 15.209	PASS
Band Edge	FCC Part 15.249(d), 15.209	PASS
20dB Bandwidth and 99% Bandwidth	FCC Part 15.215(c)	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	PASS

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	15-35
Humidity (%RH)	30-60
Barometric Pressure (mbar)	860-1060

Note: Actual values will be recorded during the test.

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2025-06-30	2026-06-29
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2025-06-10	2026-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2025-06-30	2026-06-29
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2025-06-09	2026-06-08
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2025-06-09	2026-06-08
V-network	SCHWARZBECK	NSLK 8127	8127-902	2025-06-09	2026-06-08
Attenuator	SCHWARZBECK	VTSD 9561-FN	/	2025-06-09	2026-06-08
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2025-03-24	2027-03-23
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2025-06-22	2027-06-21
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2025-06-23	2027-06-22
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2025-06-22	2027-06-21
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2025-06-09	2026-06-08
EMC chamber 9*6*6(L*W*H)	CHANGNING	966	N/A	2025-06-10	2028-06-09
Shielded Enclosure 8*5*4(L*W*H)	CHANGNING	854	N/A	2025-06-10	2028-06-09
Test Software	BL	BL410_E	Version:2.1.1.436	N/A	N/A
Test Software	BL	BL410_R	Version:2.1.1.409	N/A	N/A

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2.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI. The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95.45%.

Parameter		Uncertainty
Antenna Port Conducted Emission		$\pm 1.04\text{dB}$
Radiated Emission	30MHz-1GHz	$\pm 5.00\text{dB}$
	1GHz-40GHz	$\pm 5.46\text{dB}$
Conducted Emission on AC Mains	150KHz-30MHz	$\pm 3.36\text{dB}$
Occupied Channel Bandwidth		$\pm 39.26\text{KHz}$

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Enter the fixed frequency mode by pressing the key was control EUT work in continuous transmitter and receiver mode.
Select test channel as below:

Channel	Frequency
The lowest channel(CH1)	2403MHz
The middle channel(CH40)	2442MHz
The highest channel(CH78)	2480MHz

- The basic operation modes are:
- A. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Adapter	GRP	GRP-A290020-A	680024554D0344817008

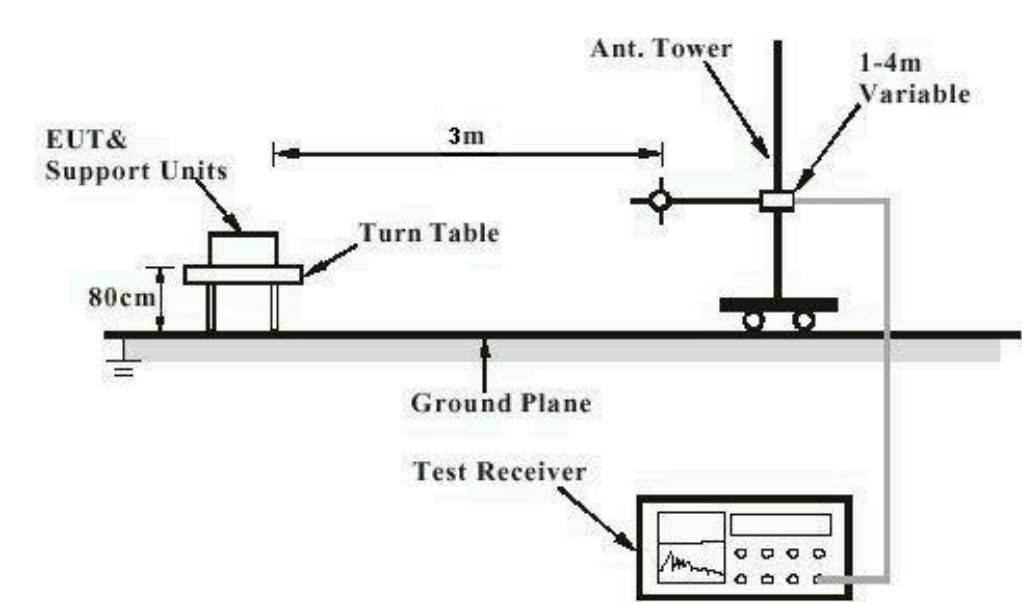
3.3 Support Software

Description	Manufacturer	Software Name
N/A	N/A	N/A

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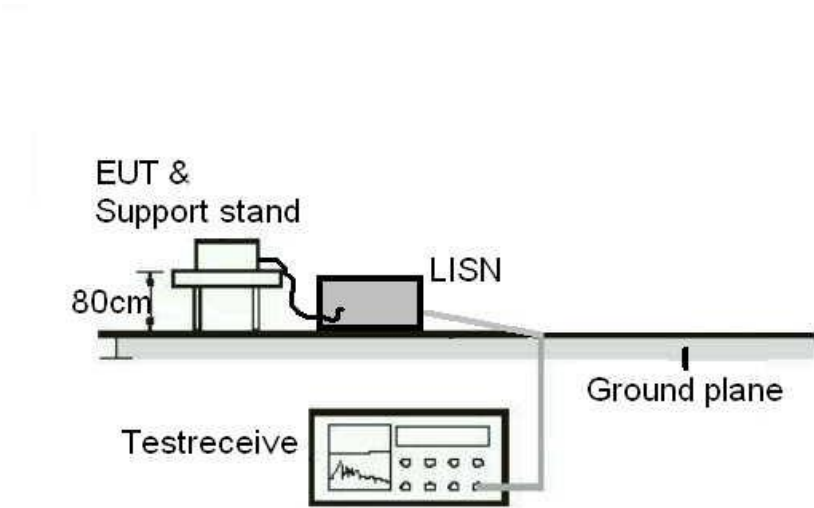
3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: Part 15.203
Requirement	: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 0dBi. The antenna is pcb antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.249(a), 15.209
Requirement	: ANSI C63.10-2020
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.i/ii/iii
Ambient temperature	: 24.8°C
Relative humidity	: 45%

Notes

1. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
2. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
3. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

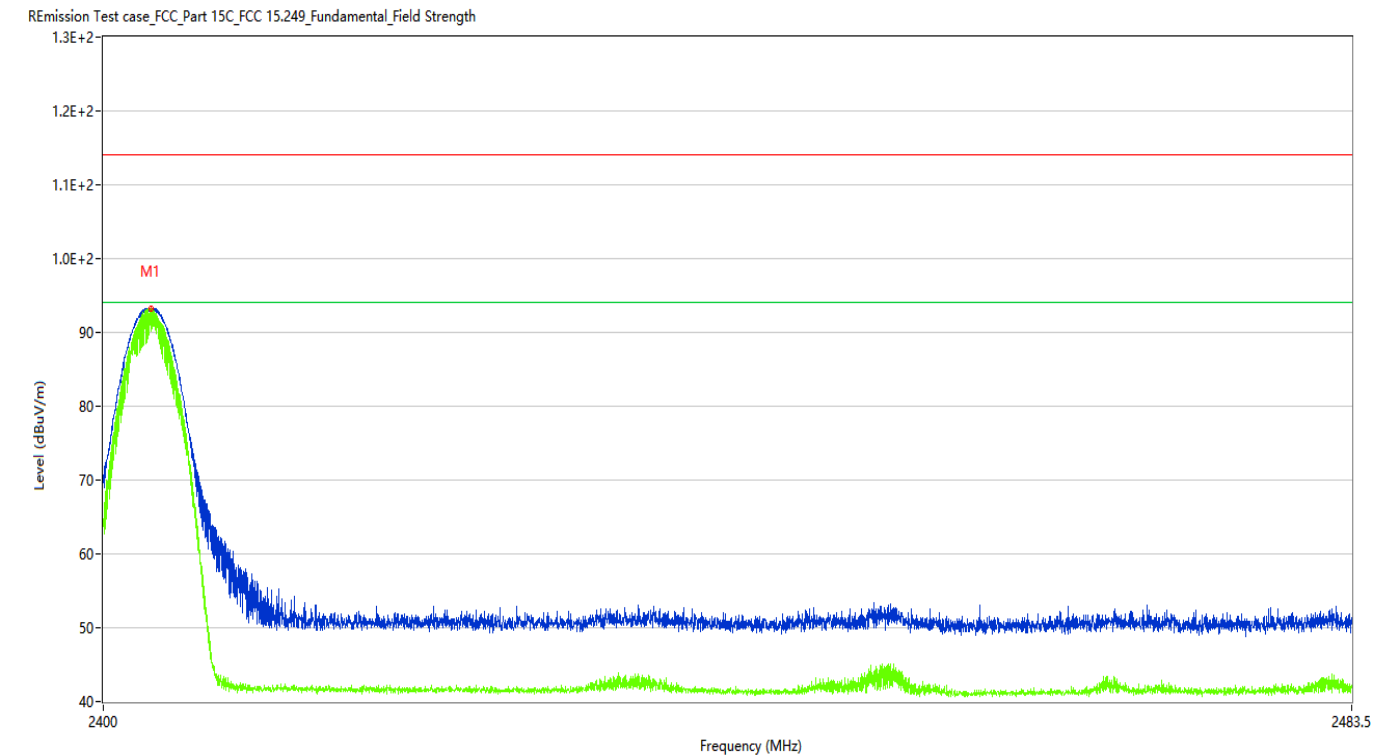
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Figure 1: Test plots of Field strength of fundamental, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2403.110	93.28	-10.28	114.0	20.72	Peak	0.00	100	Horizontal	Pass
1**	2403.110	90.15	-10.28	94.0	3.85	AV	0.00	100	Horizontal	Pass

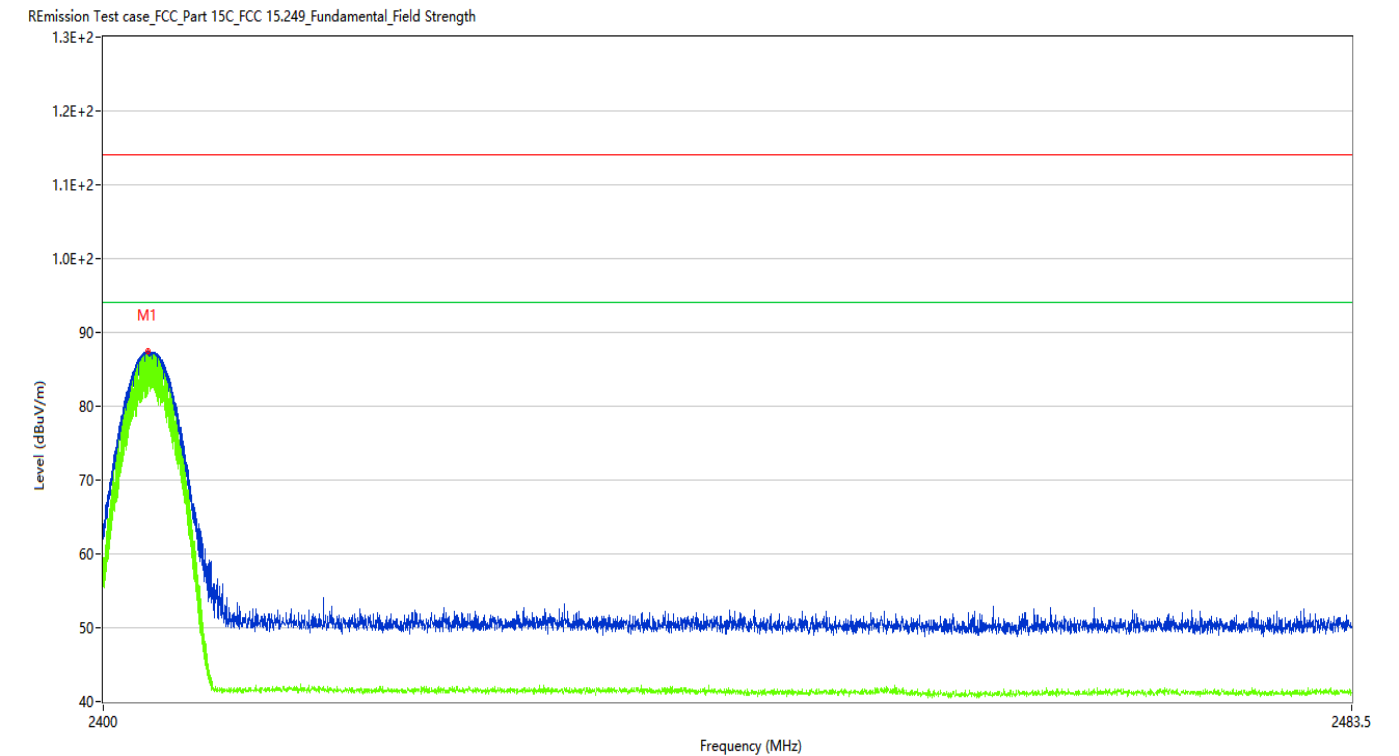
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Figure 2: Test plots of Field strength of fundamental, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2402.943	87.39	-10.28	114.0	26.61	Peak	103.50	100	Vertical	Pass
1**	2402.943	86.82	-10.28	94.0	7.18	AV	103.50	100	Vertical	Pass

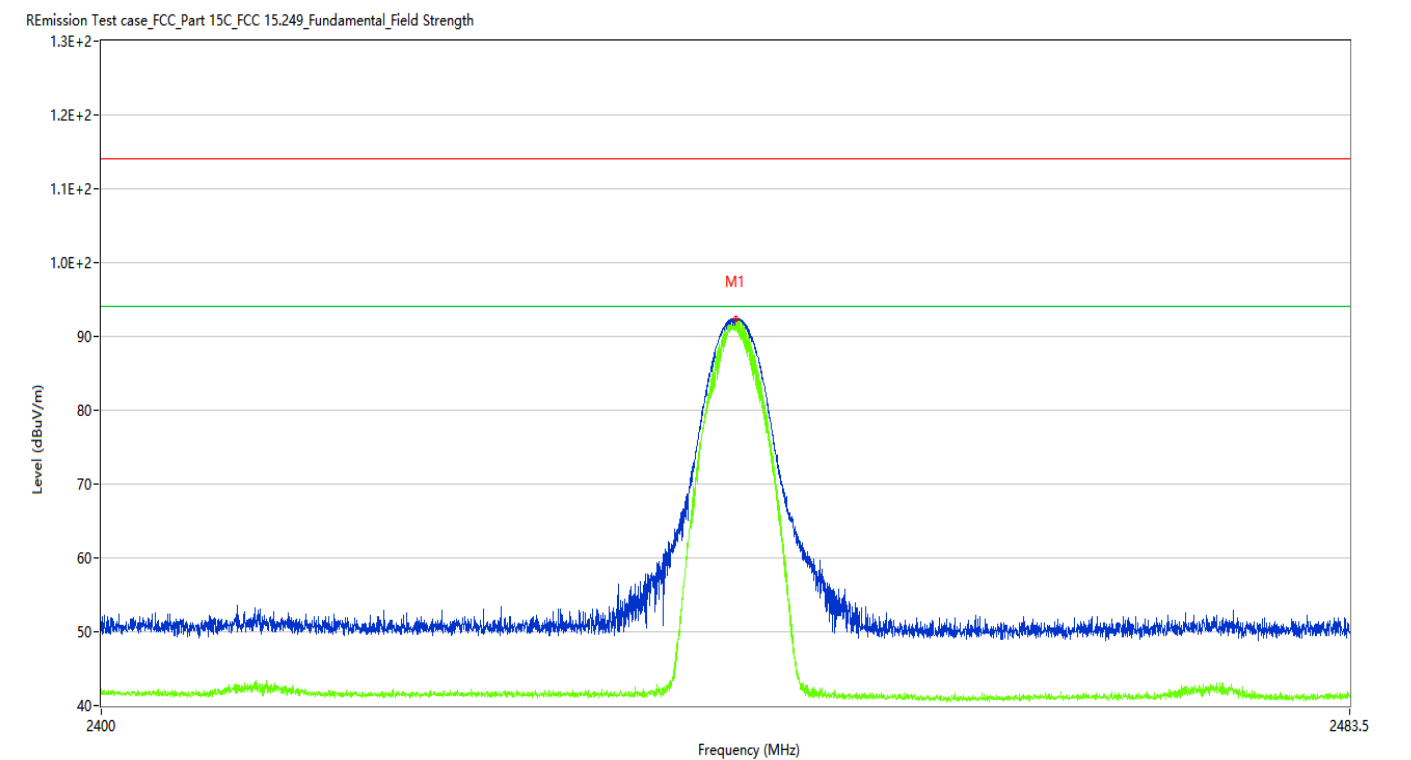
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Figure 3: Test plots of Field strength of fundamental, 2442MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2442.063	92.33	-10.64	114.0	21.67	Peak	12.30	100	Horizontal	Pass
1**	2442.063	91.85	-10.64	94.0	2.15	AV	12.30	100	Horizontal	Pass

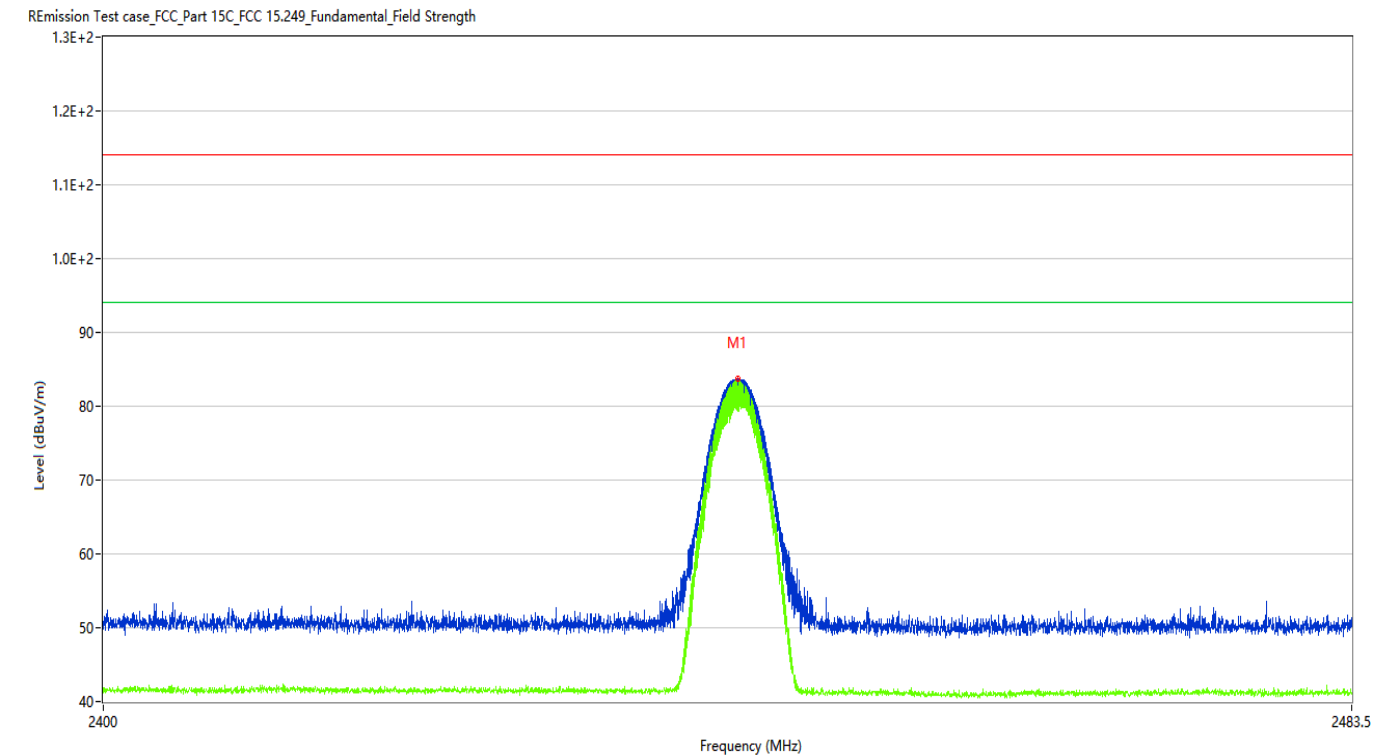
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Figure 4: Test plots of Field strength of fundamental, 2442MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2442.105	83.65	-10.64	114.0	30.35	Peak	146.50	100	Vertical	Pass
1**	2442.105	79.36	-10.64	94.0	14.64	AV	146.50	100	Vertical	Pass

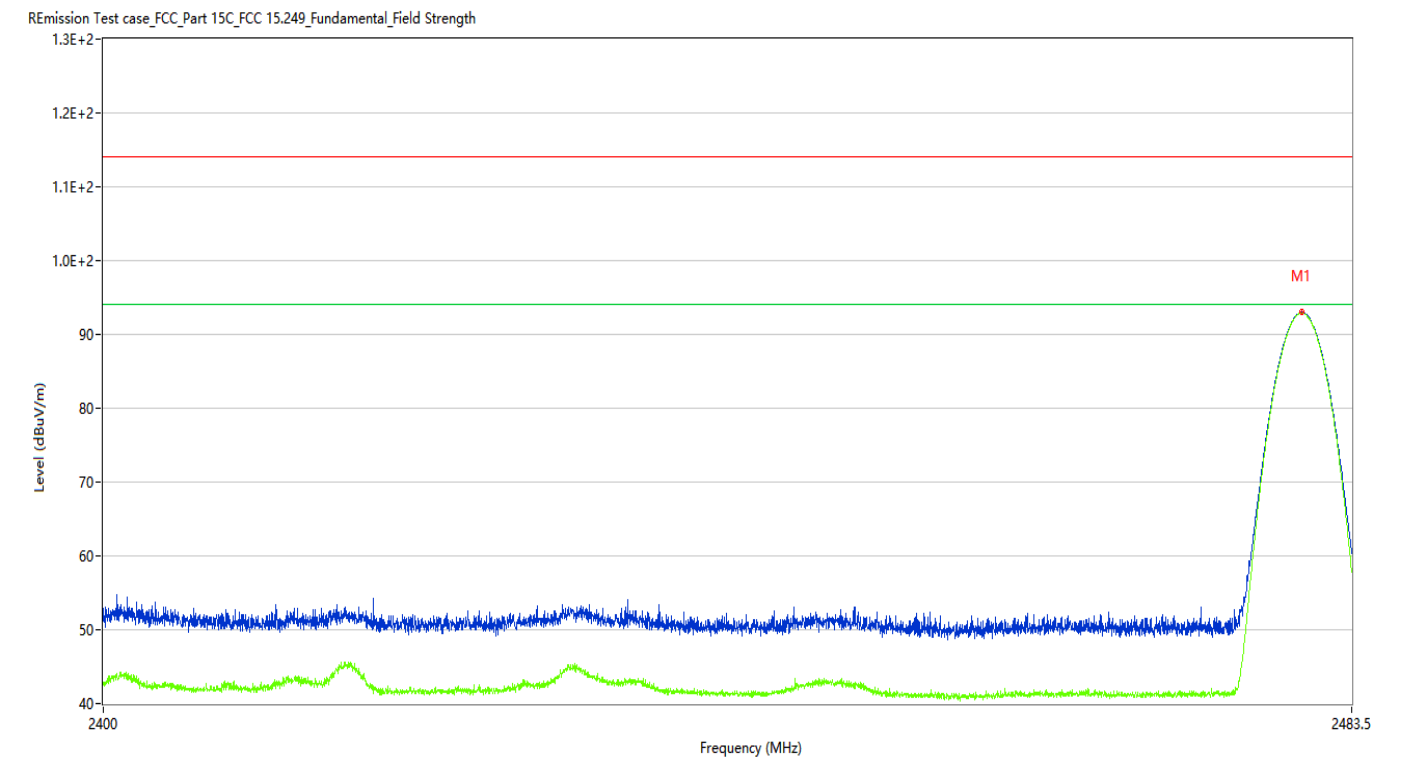
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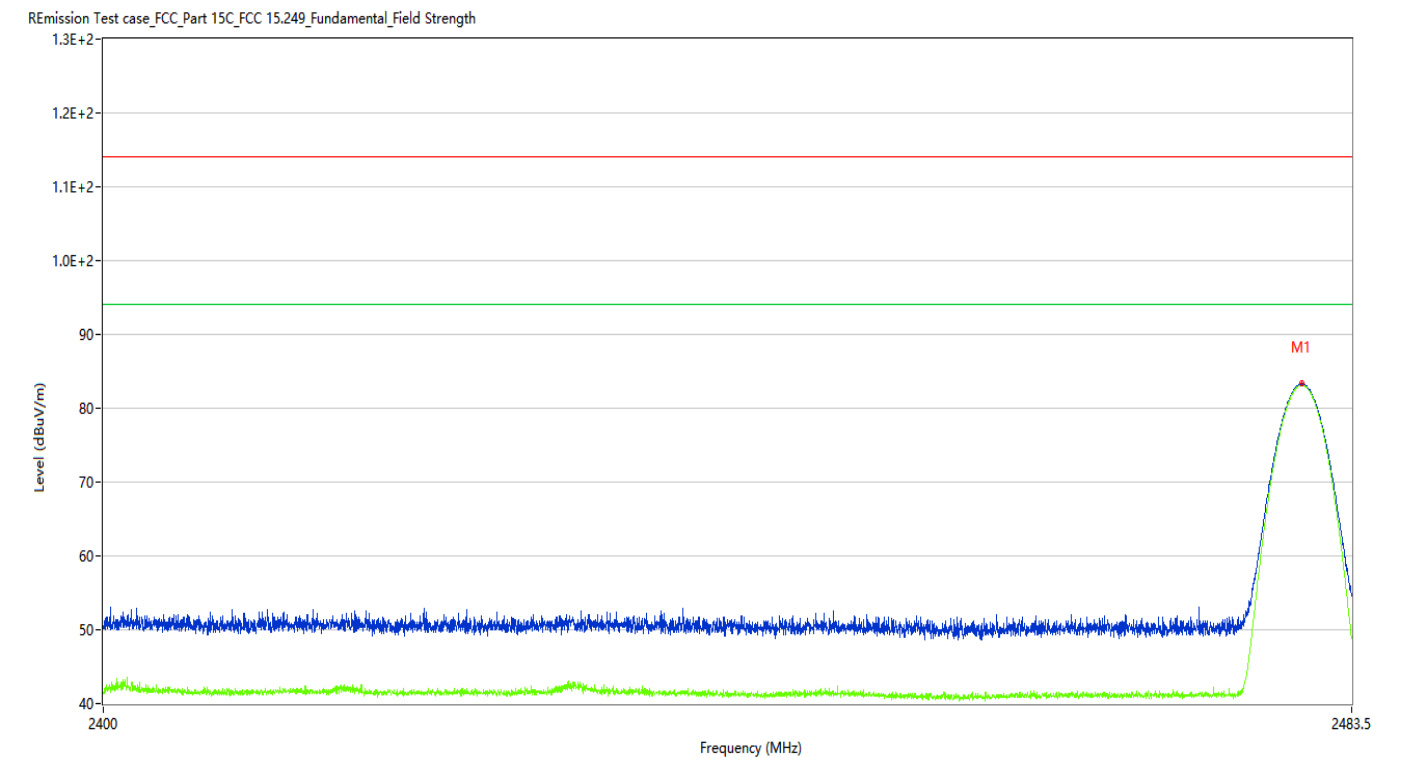
Figure 5: Test plots of Field strength of fundamental, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.118	92.97	-10.81	114.0	21.03	Peak	0.00	100	Horizontal	Pass
1**	2480.118	92.92	-10.81	94.0	1.08	AV	0.00	100	Horizontal	Pass

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Figure 6: Test plots of Field strength of fundamental, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.139	83.32	-10.81	114.0	30.68	Peak	34.10	100	Vertical	Pass
1**	2480.139	83.14	-10.81	94.0	10.86	AV	34.10	100	Vertical	Pass

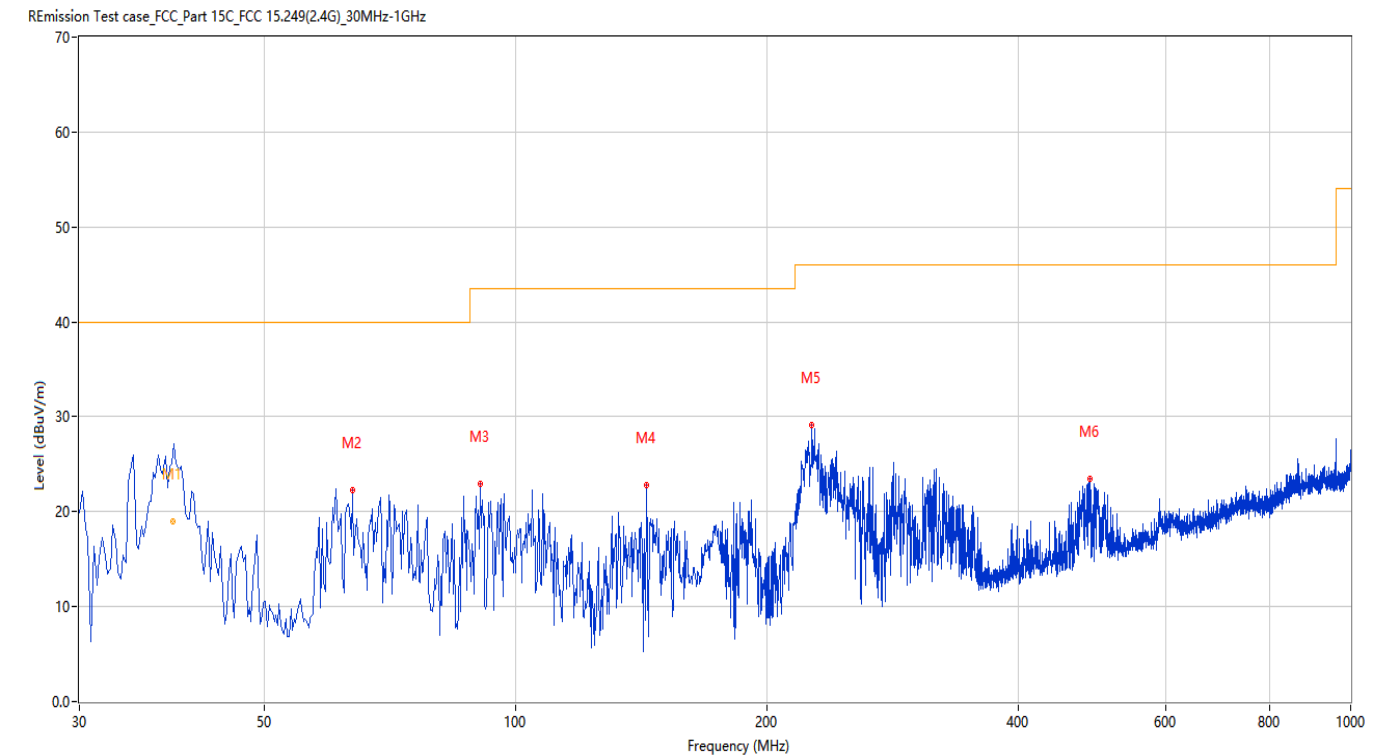
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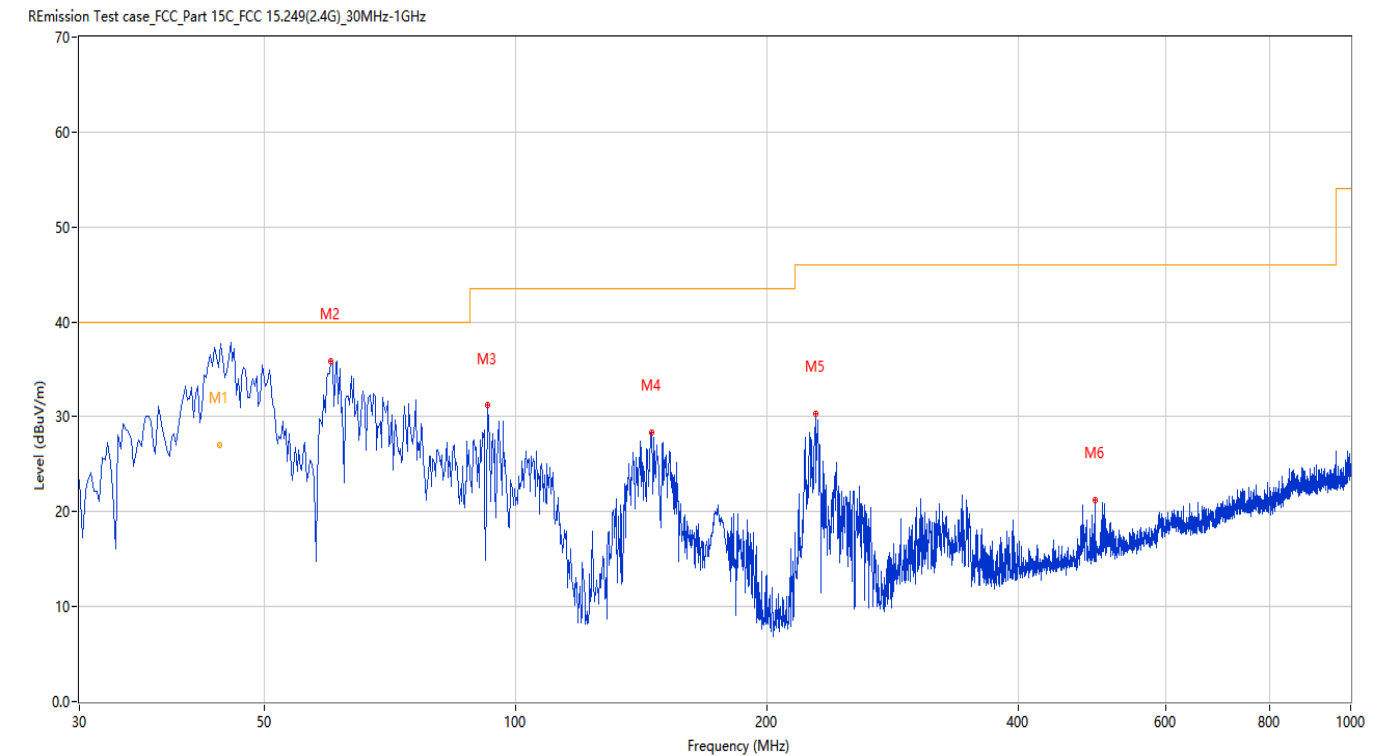
Figure 7: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.874	27.74	-26.79	40.0	12.26	Peak	315.60	165	Horizontal	Pass
1*	38.874	19.00	-26.79	40.0	21.00	QP	315.60	165	Horizontal	Pass
2	63.699	22.29	-27.27	40.0	17.71	Peak	52.40	100	Horizontal	Pass
3	90.610	22.96	-28.20	43.5	20.54	Peak	232.90	200	Horizontal	Pass
4	143.219	22.74	-29.95	43.5	20.76	Peak	52.40	100	Horizontal	Pass
5	226.376	29.09	-25.64	46.0	16.91	Peak	61.60	200	Horizontal	Pass
6	487.726	23.51	-18.54	46.0	22.49	Peak	18.60	100	Horizontal	Pass

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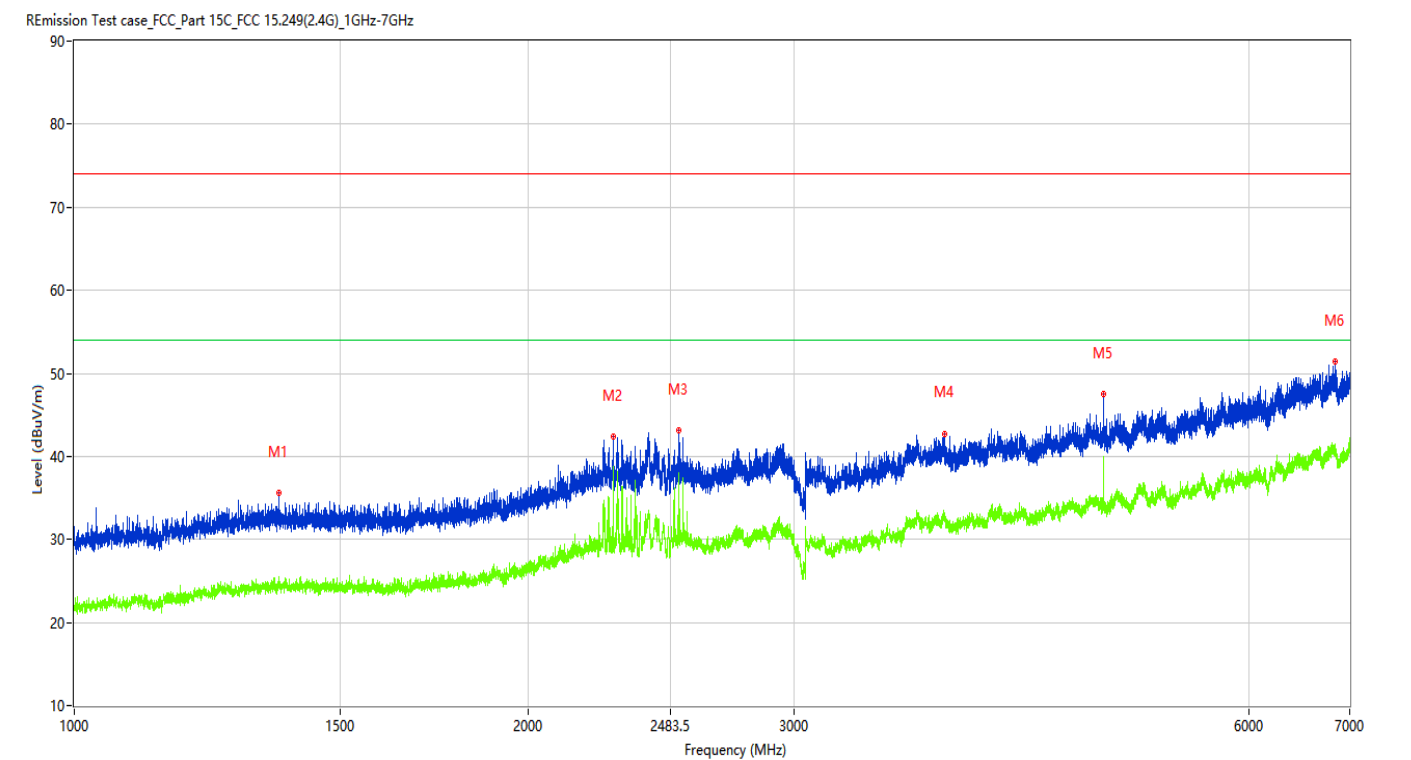
Figure 8: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.134	37.29	-25.48	40.0	2.71	Peak	0.00	103	Vertical	Pass
1*	44.134	27.02	-25.48	40.0	12.98	QP	0.00	103	Vertical	Pass
2	60.062	35.90	-26.35	40.0	4.10	Peak	186.20	100	Vertical	Pass
3	92.549	31.19	-27.62	43.5	12.31	Peak	218.80	100	Vertical	Pass
4	145.401	28.35	-29.91	43.5	15.15	Peak	0.00	200	Vertical	Pass
5	228.558	30.32	-25.45	46.0	15.68	Peak	61.70	100	Vertical	Pass
6	493.787	21.21	-18.33	46.0	24.79	Peak	80.00	100	Vertical	Pass

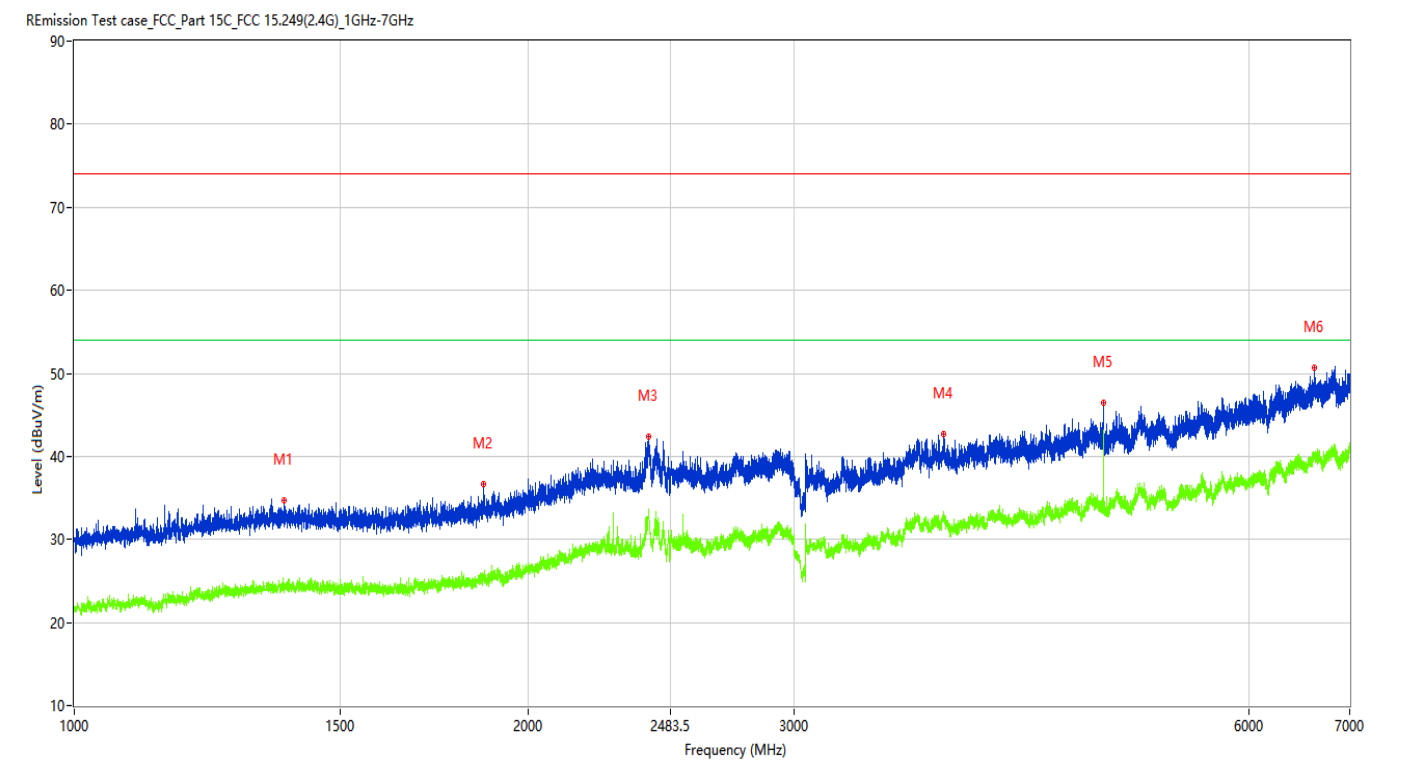
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Figure 9: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Horizontal polarization



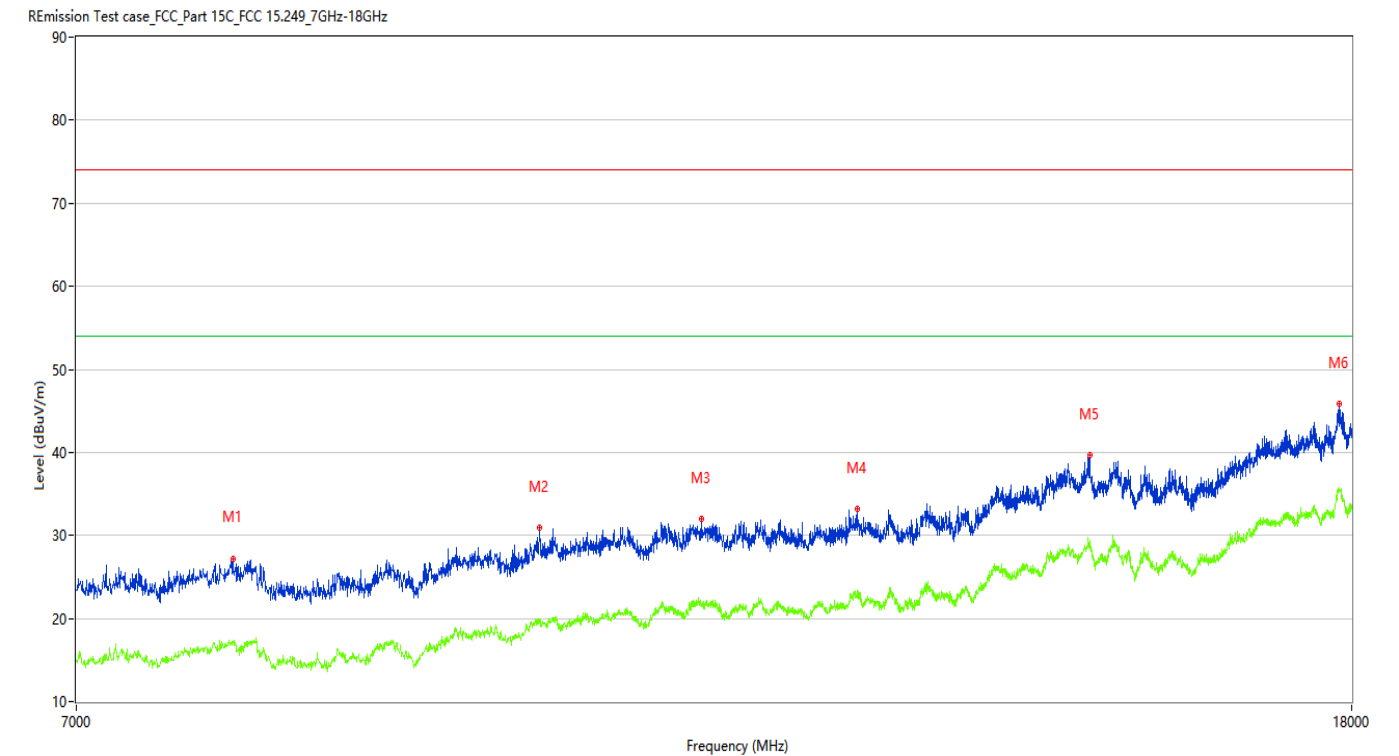
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Figure 10: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Vertical polarization



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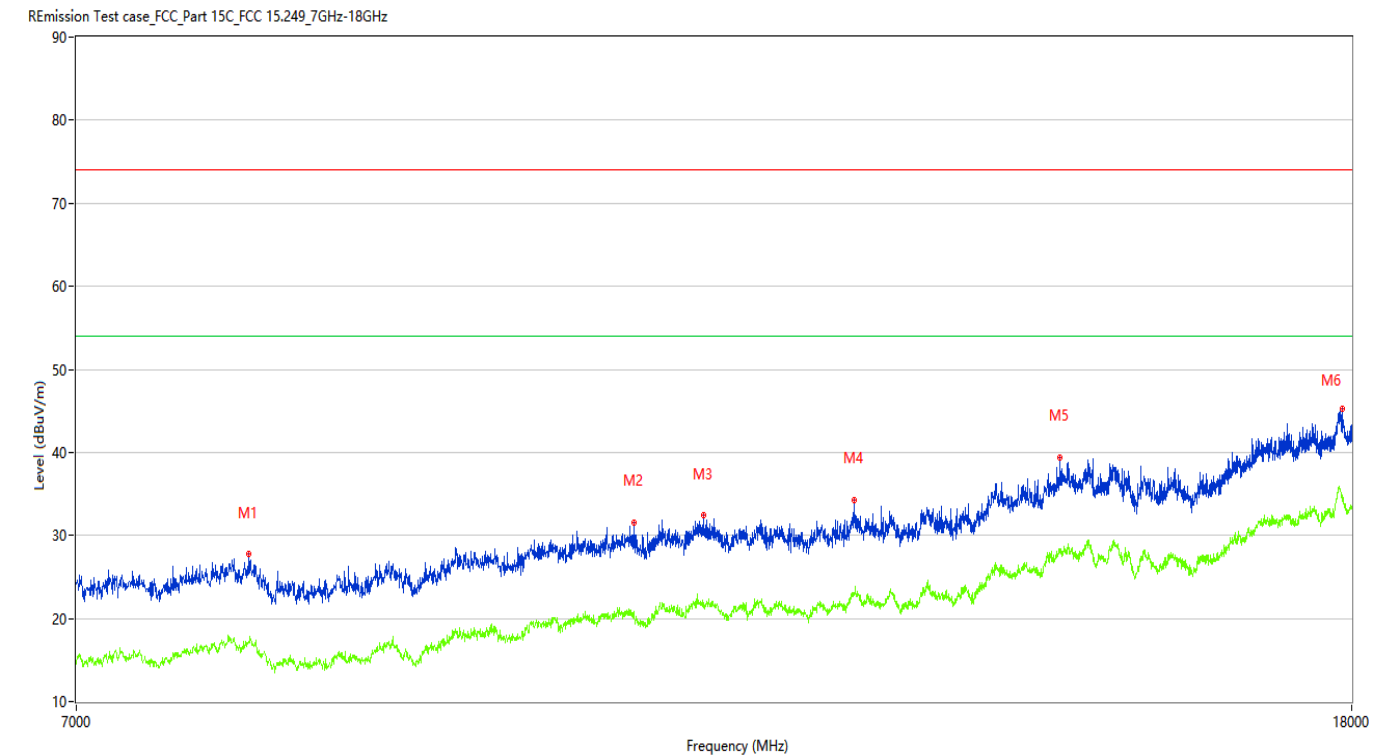
Figure 11: Test plots of Field strength of harmonics, 2403MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7860.750	27.24	1.13	74.0	46.76	Peak	360.00	100	Horizontal	Pass
1**	7860.750	17.15	1.13	54.0	36.85	AV	360.00	100	Horizontal	Pass
2	9865.500	30.94	3.02	74.0	43.06	Peak	45.20	100	Horizontal	Pass
2**	9865.500	19.88	3.02	54.0	34.12	AV	45.20	100	Horizontal	Pass
3	11122.250	32.03	4.30	74.0	41.97	Peak	93.40	100	Horizontal	Pass
3**	11122.250	21.48	4.30	54.0	32.52	AV	93.40	100	Horizontal	Pass
4	12478.000	33.18	4.77	74.0	40.82	Peak	81.60	100	Horizontal	Pass
4**	12478.000	23.00	4.77	54.0	31.00	AV	81.60	100	Horizontal	Pass
5	14823.750	39.62	11.35	74.0	34.38	Peak	223.40	100	Horizontal	Pass
5**	14823.750	29.41	11.35	54.0	24.59	AV	223.40	100	Horizontal	Pass
6	17835.000	45.80	15.84	74.0	28.20	Peak	343.00	100	Horizontal	Pass
6**	17835.000	35.79	15.84	54.0	18.21	AV	343.00	100	Horizontal	Pass

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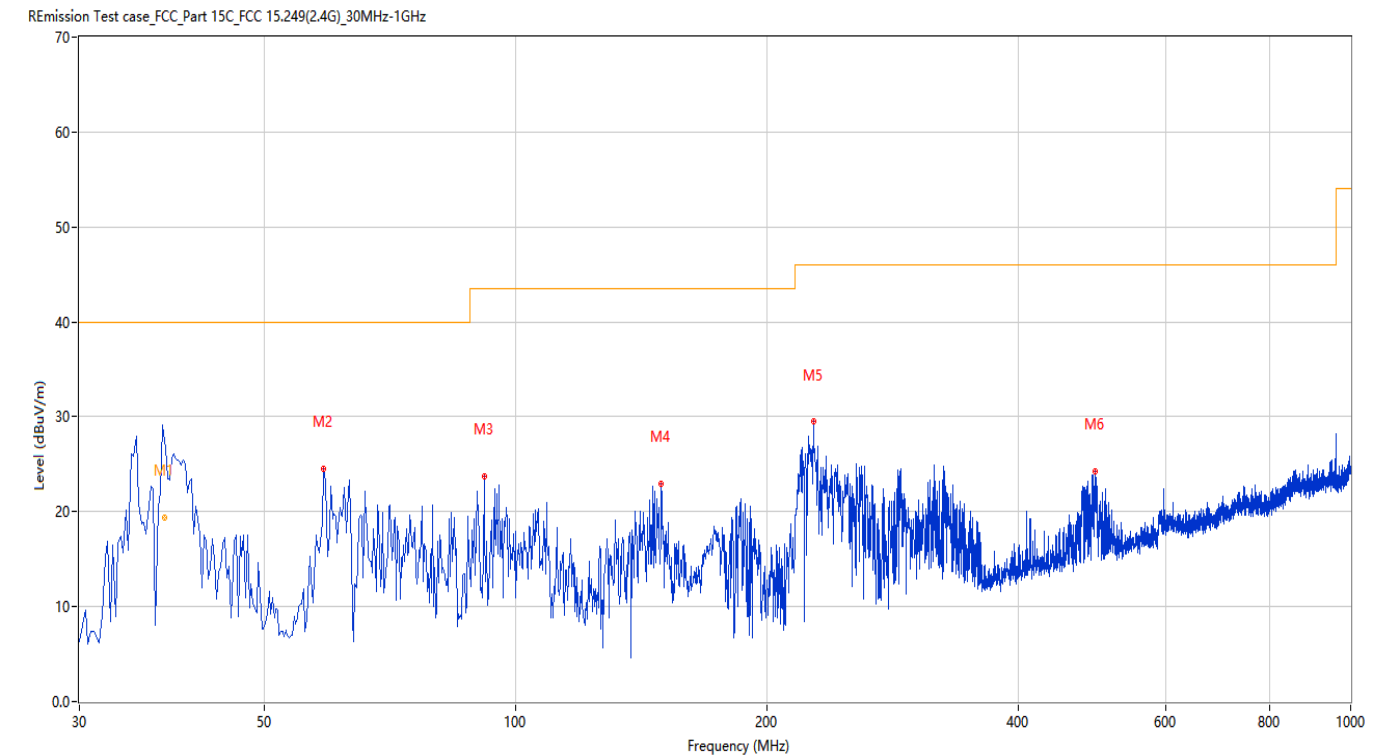
Figure 12: Test plots of Field strength of harmonics, 2403MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7954.250	27.72	0.93	74.0	46.28	Peak	284.20	100	Vertical	Pass
1**	7954.250	17.26	0.93	54.0	36.74	AV	284.20	100	Vertical	Pass
2	10577.750	31.49	4.31	74.0	42.51	Peak	32.90	100	Vertical	Pass
2**	10577.750	20.83	4.31	54.0	33.17	AV	32.90	100	Vertical	Pass
3	11136.000	32.43	4.14	74.0	41.57	Peak	8.60	100	Vertical	Pass
3**	11136.000	21.78	4.14	54.0	32.22	AV	8.60	100	Vertical	Pass
4	12455.999	34.31	5.00	74.0	39.69	Peak	92.40	100	Vertical	Pass
4**	12455.999	22.87	5.00	54.0	31.13	AV	92.40	100	Vertical	Pass
5	14504.750	39.44	9.51	74.0	34.56	Peak	307.40	100	Vertical	Pass
5**	14504.750	28.24	9.51	54.0	25.76	AV	307.40	100	Vertical	Pass
6	17870.750	45.28	15.70	74.0	28.72	Peak	173.00	100	Vertical	Pass
6**	17870.750	34.78	15.70	54.0	19.22	AV	173.00	100	Vertical	Pass

TEST REPORT

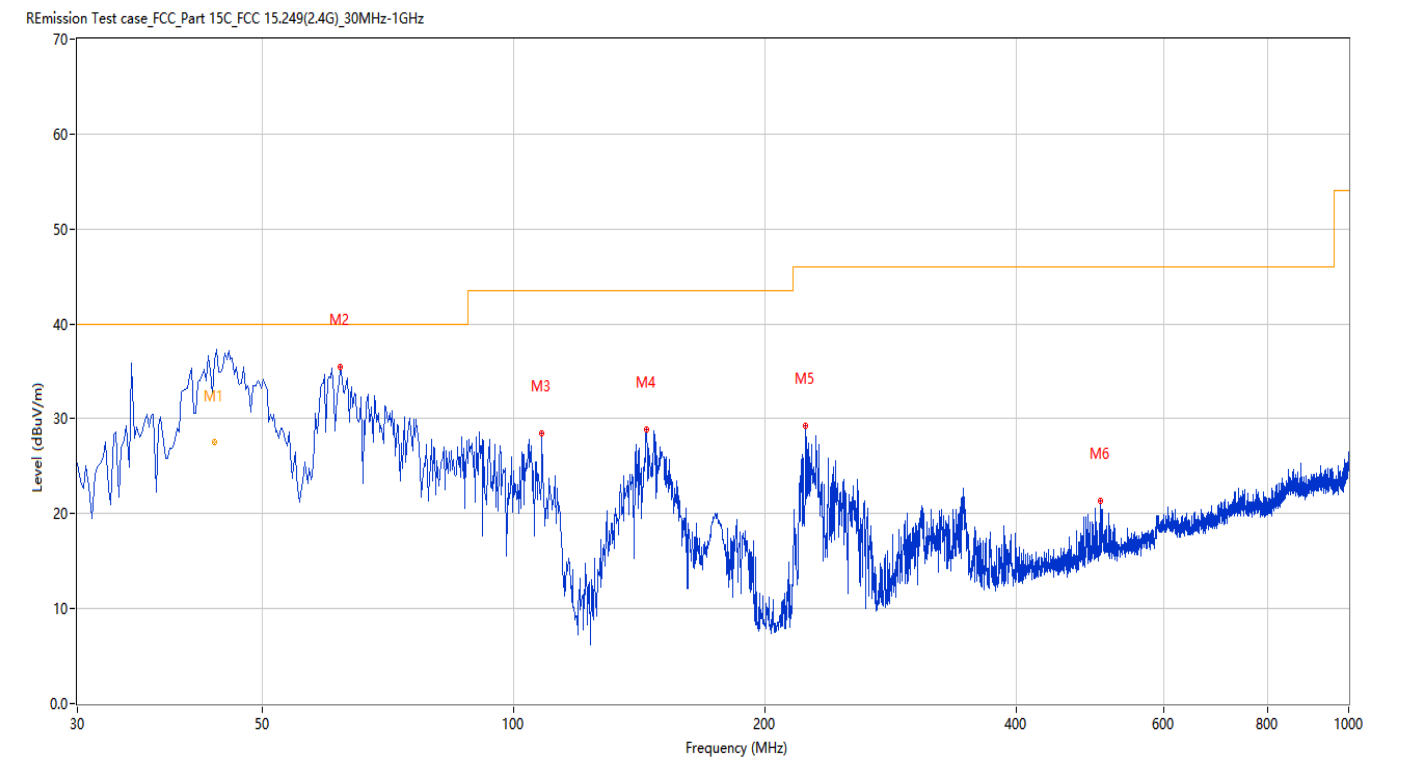
Figure 13: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.911	29.24	-27.23	40.0	10.76	Peak	282.30	144	Horizontal	Pass
1*	37.911	19.44	-27.23	40.0	20.56	QP	282.30	144	Horizontal	Pass
2	58.850	24.54	-26.12	40.0	15.46	Peak	64.90	200	Horizontal	Pass
3	91.580	23.72	-27.90	43.5	19.78	Peak	285.50	200	Horizontal	Pass
4	149.280	22.88	-29.80	43.5	20.62	Peak	75.60	100	Horizontal	Pass
5	227.346	29.47	-25.56	46.0	16.53	Peak	38.20	200	Horizontal	Pass
6	494.756	24.26	-18.27	46.0	21.74	Peak	230.00	100	Horizontal	Pass

TEST REPORT

Figure 14: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.829	38.11	-25.52	40.0	1.89	Peak	97.70	107	Vertical	Pass
1*	43.829	27.59	-25.52	40.0	12.41	QP	97.70	107	Vertical	Pass
2	62.002	35.41	-26.80	40.0	4.59	Peak	360.00	200	Vertical	Pass
3	108.065	28.51	-26.51	43.5	14.99	Peak	331.40	100	Vertical	Pass
4	144.189	28.92	-29.93	43.5	14.58	Peak	360.00	200	Vertical	Pass
5	223.467	29.25	-25.87	46.0	16.75	Peak	98.50	100	Vertical	Pass
6	504.211	21.33	-17.64	46.0	24.67	Peak	63.80	100	Vertical	Pass

TEST REPORT

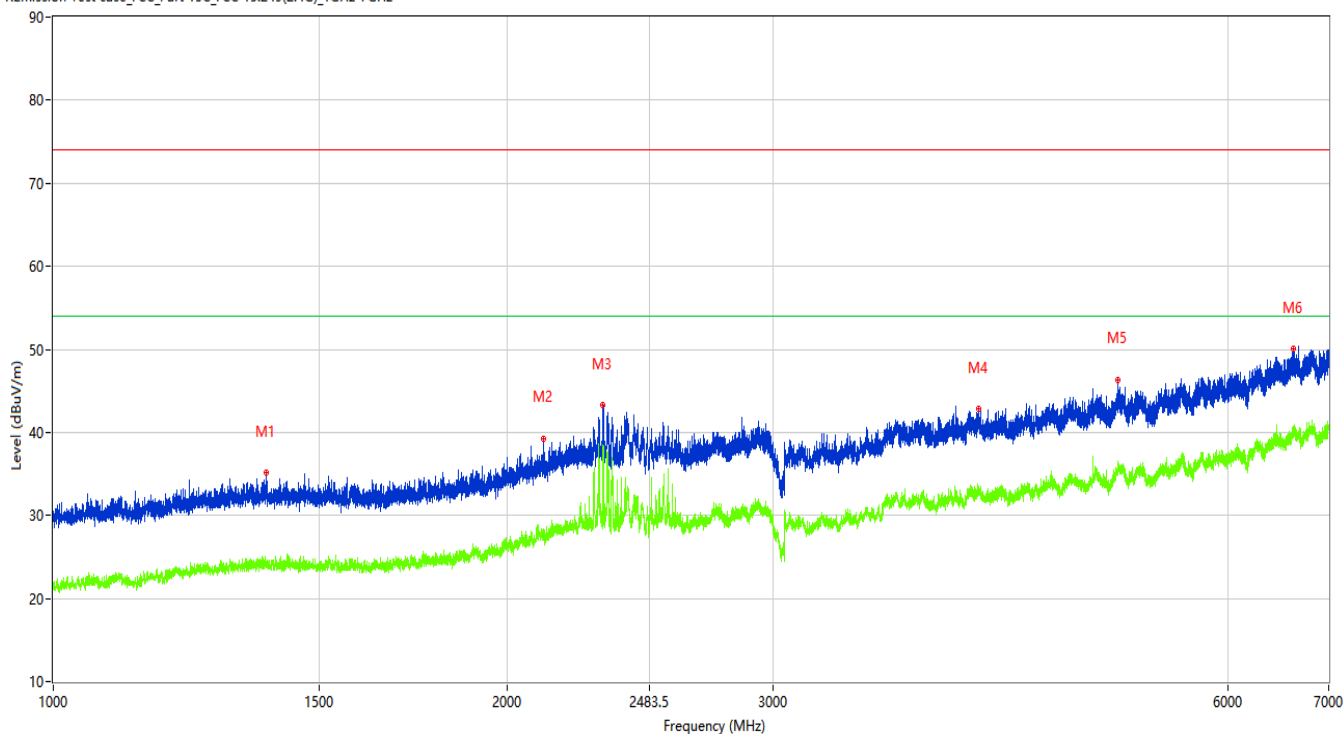
Report No.: SHE25070059-06DE

Date: 2025-09-11

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Figure 15: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Horizontal polarization

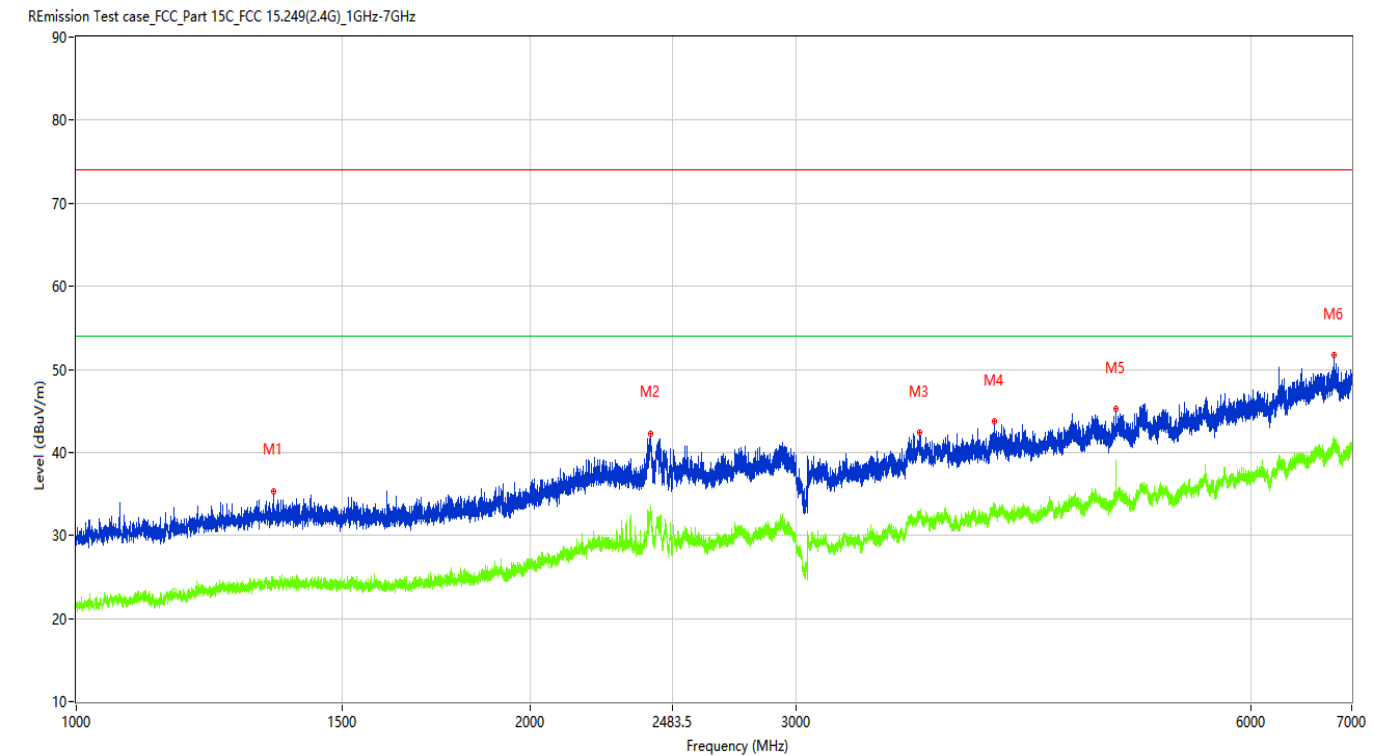
REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_1GHz-7GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1384.500	35.10	-13.49	74.0	38.90	Peak	165.50	100	Horizontal	Pass
1**	1384.500	24.13	-13.49	54.0	29.87	AV	165.50	100	Horizontal	Pass
2	2111.750	39.18	-10.13	74.0	34.82	Peak	79.70	100	Horizontal	Pass
2**	2111.750	27.55	-10.13	54.0	26.45	AV	79.70	100	Horizontal	Pass
3	2314.000	43.23	-8.46	74.0	30.77	Peak	3.20	100	Horizontal	Pass
3**	2314.000	38.35	-8.46	54.0	15.65	AV	3.20	100	Horizontal	Pass
4	4102.500	42.87	-1.70	74.0	31.13	Peak	359.30	100	Horizontal	Pass
4**	4102.500	32.45	-1.70	54.0	21.55	AV	359.30	100	Horizontal	Pass
5	5074.500	46.32	0.46	74.0	27.68	Peak	84.30	100	Horizontal	Pass
5**	5074.500	35.38	0.46	54.0	18.62	AV	84.30	100	Horizontal	Pass
6	6638.000	50.12	3.68	74.0	23.88	Peak	95.00	100	Horizontal	Pass
6**	6638.000	40.47	3.68	54.0	13.53	AV	95.00	100	Horizontal	Pass

TEST REPORT

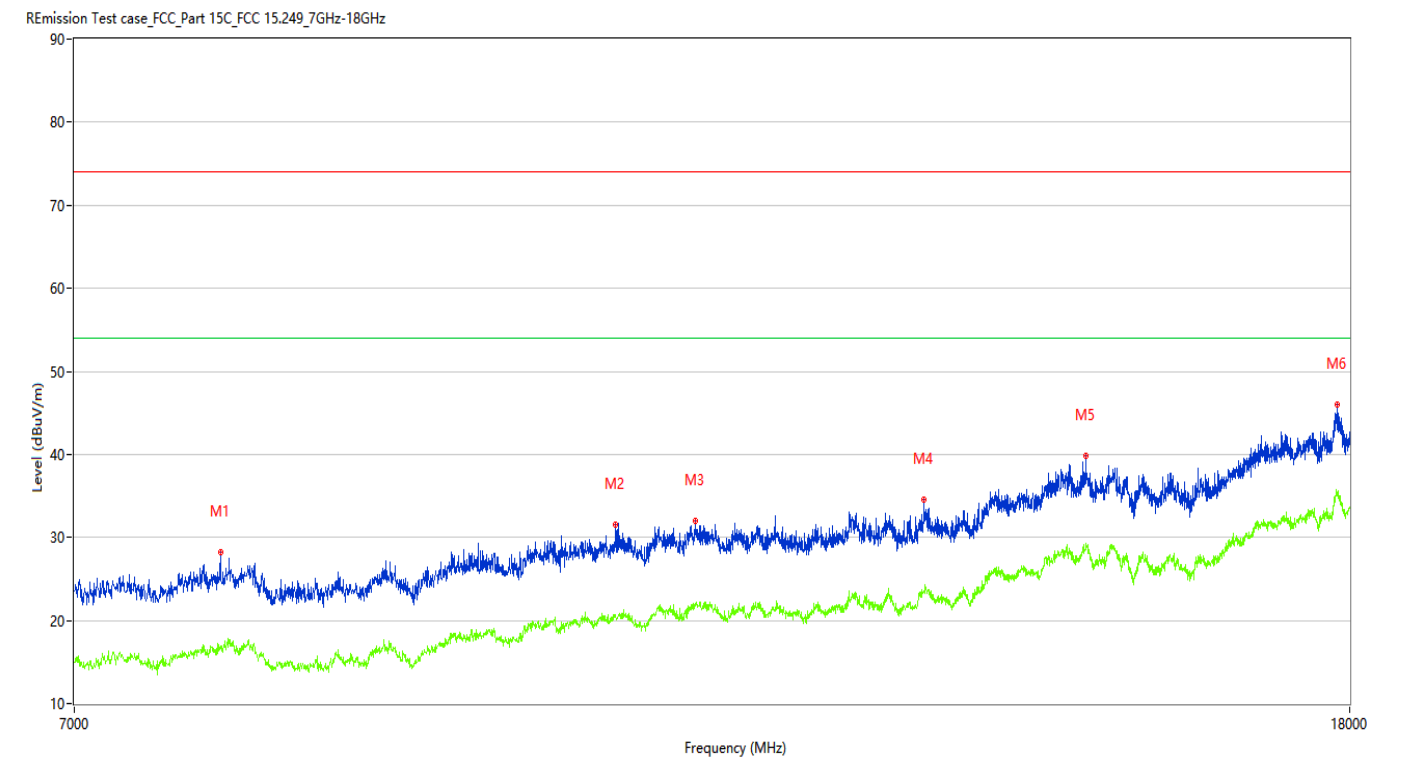
Figure 16: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1350.250	35.37	-13.52	74.0	38.63	Peak	356.30	100	Vertical	Pass
1**	1350.250	24.30	-13.52	54.0	29.70	AV	356.30	100	Vertical	Pass
2	2401.500	42.29	-4.93	74.0	31.71	Peak	71.60	100	Vertical	Pass
2**	2401.500	33.37	-4.93	54.0	20.63	AV	71.60	100	Vertical	Pass
3	3623.000	42.39	-2.64	74.0	31.61	Peak	360.00	100	Vertical	Pass
3**	3623.000	32.62	-2.64	54.0	21.38	AV	360.00	100	Vertical	Pass
4	4057.000	43.76	-1.84	74.0	30.24	Peak	203.90	100	Vertical	Pass
4**	4057.000	32.93	-1.84	54.0	21.07	AV	203.90	100	Vertical	Pass
5	4884.000	45.29	-0.72	74.0	28.71	Peak	226.90	100	Vertical	Pass
5**	4884.000	38.87	-0.72	54.0	15.13	AV	226.90	100	Vertical	Pass
6	6809.500	51.66	4.21	74.0	22.34	Peak	17.60	100	Vertical	Pass
6**	6809.500	40.63	4.21	54.0	13.37	AV	17.60	100	Vertical	Pass

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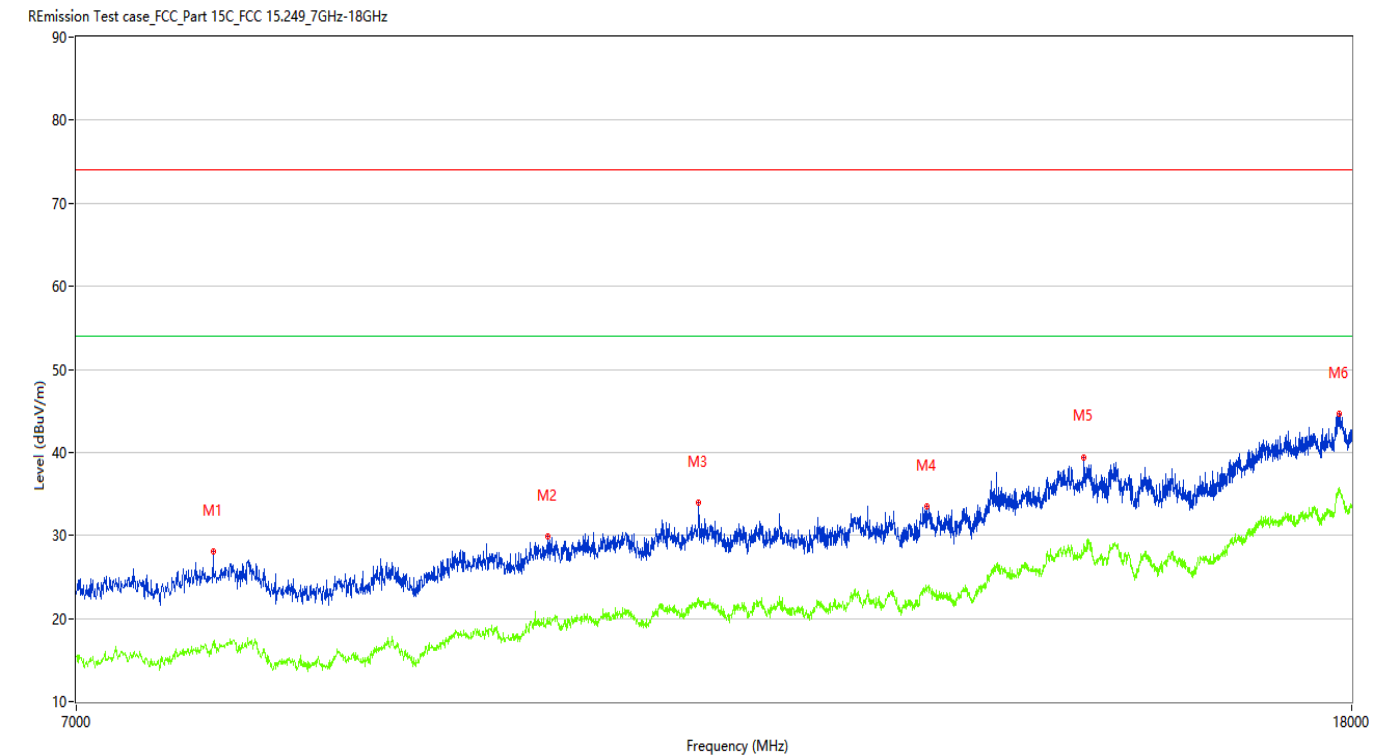
Figure 17: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7800.250	28.20	0.86	74.0	45.80	Peak	169.50	100	Horizontal	Pass
1**	7800.250	16.60	0.86	54.0	37.40	AV	169.50	100	Horizontal	Pass
2	10454.000	31.50	3.93	74.0	42.50	Peak	360.00	100	Horizontal	Pass
2**	10454.000	20.56	3.93	54.0	33.44	AV	360.00	100	Horizontal	Pass
3	11083.750	31.98	4.69	74.0	42.02	Peak	169.50	100	Horizontal	Pass
3**	11083.750	22.09	4.69	54.0	31.91	AV	169.50	100	Horizontal	Pass
4	13132.500	34.63	5.96	74.0	39.37	Peak	38.10	100	Horizontal	Pass
4**	13132.500	23.58	5.96	54.0	30.42	AV	38.10	100	Horizontal	Pass
5	14807.250	39.78	11.52	74.0	34.22	Peak	49.90	100	Horizontal	Pass
5**	14807.250	28.71	11.52	54.0	25.29	AV	49.90	100	Horizontal	Pass
6	17832.249	46.04	15.82	74.0	27.96	Peak	62.50	100	Horizontal	Pass
6**	17832.249	35.49	15.82	54.0	18.51	AV	62.50	100	Horizontal	Pass

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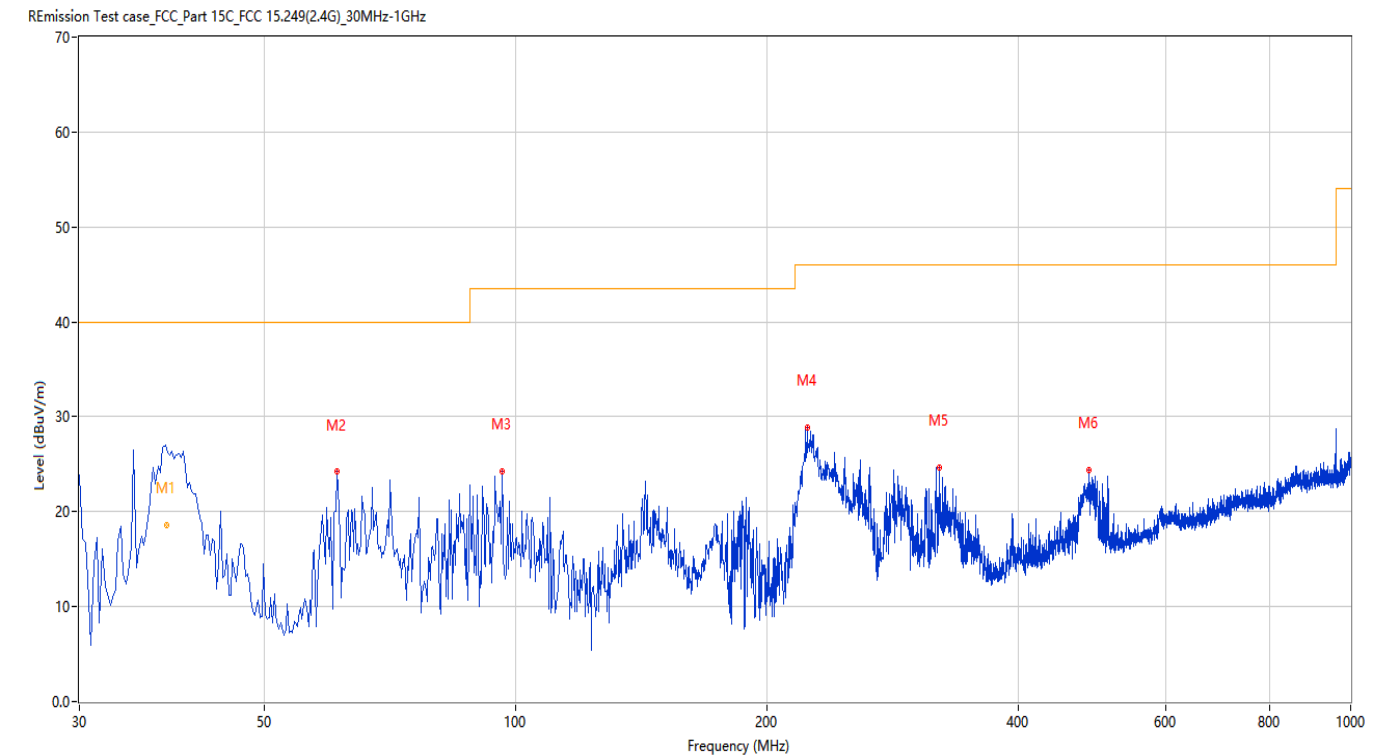
Figure 18: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7745.250	28.12	0.63	74.0	45.88	Peak	0.00	100	Vertical	Pass
1**	7745.250	16.99	0.63	54.0	37.01	AV	0.00	100	Vertical	Pass
2	9928.750	29.82	3.15	74.0	44.18	Peak	64.50	100	Vertical	Pass
2**	9928.750	19.31	3.15	54.0	34.69	AV	64.50	100	Vertical	Pass
3	11100.250	33.96	4.55	74.0	40.04	Peak	333.10	100	Vertical	Pass
3**	11100.250	21.93	4.55	54.0	32.07	AV	333.10	100	Vertical	Pass
4	13143.500	33.47	5.94	74.0	40.53	Peak	237.20	100	Vertical	Pass
4**	13143.500	23.76	5.94	54.0	30.24	AV	237.20	100	Vertical	Pass
5	14763.250	39.45	10.44	74.0	34.55	Peak	115.90	100	Vertical	Pass
5**	14763.250	29.01	10.44	54.0	24.99	AV	115.90	100	Vertical	Pass
6	17835.000	44.60	15.84	74.0	29.40	Peak	127.70	100	Vertical	Pass
6**	17835.000	35.51	15.84	54.0	18.49	AV	127.70	100	Vertical	Pass

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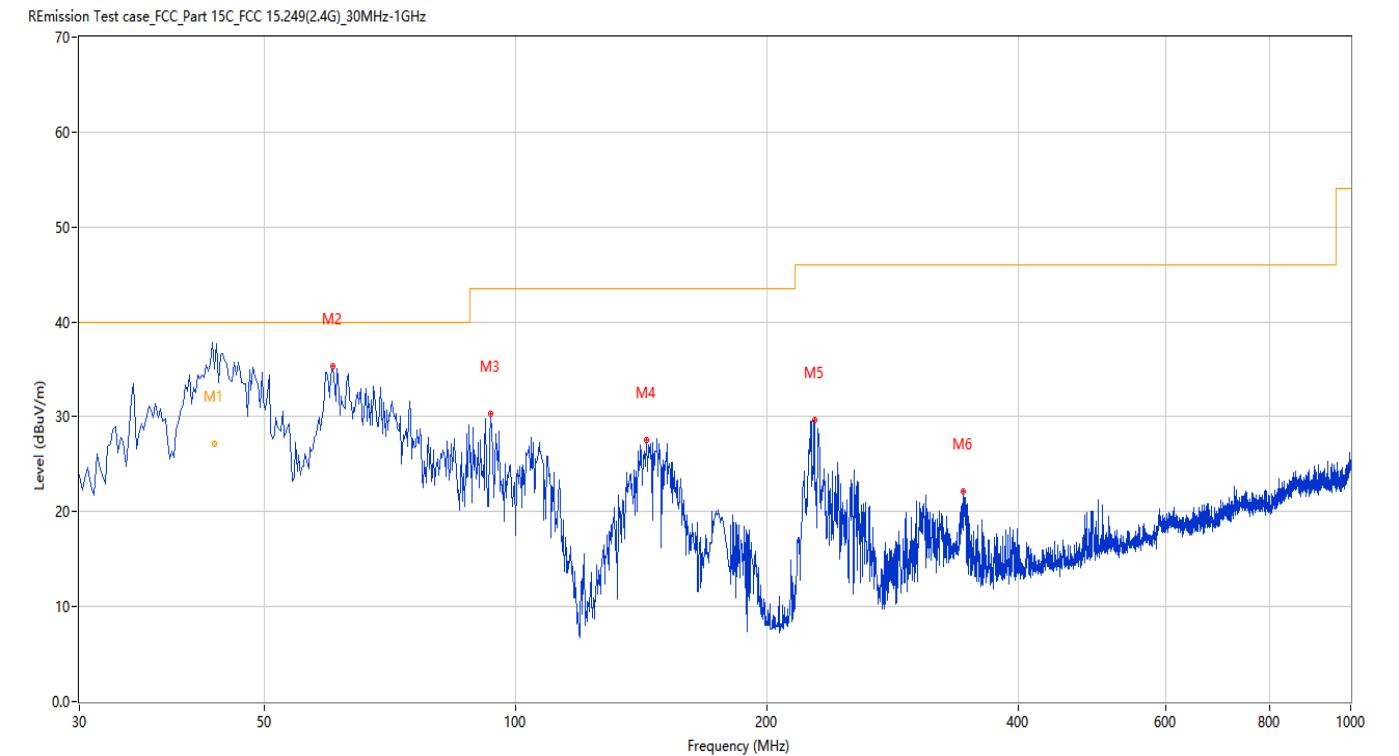
Figure 19: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	38.204	28.15	-27.14	40.0	11.85	Peak	0.00	152	Horizontal	Pass
1*	38.204	18.53	-27.14	40.0	21.47	QP	0.00	152	Horizontal	Pass
2	61.032	24.29	-26.58	40.0	15.71	Peak	52.10	200	Horizontal	Pass
3	96.186	24.23	-26.85	43.5	19.27	Peak	241.10	200	Horizontal	Pass
4	223.467	28.83	-25.87	46.0	17.17	Peak	40.10	200	Horizontal	Pass
5	321.655	24.62	-22.71	46.0	21.38	Peak	294.20	100	Horizontal	Pass
6	486.271	24.40	-18.53	46.0	21.60	Peak	34.00	100	Horizontal	Pass

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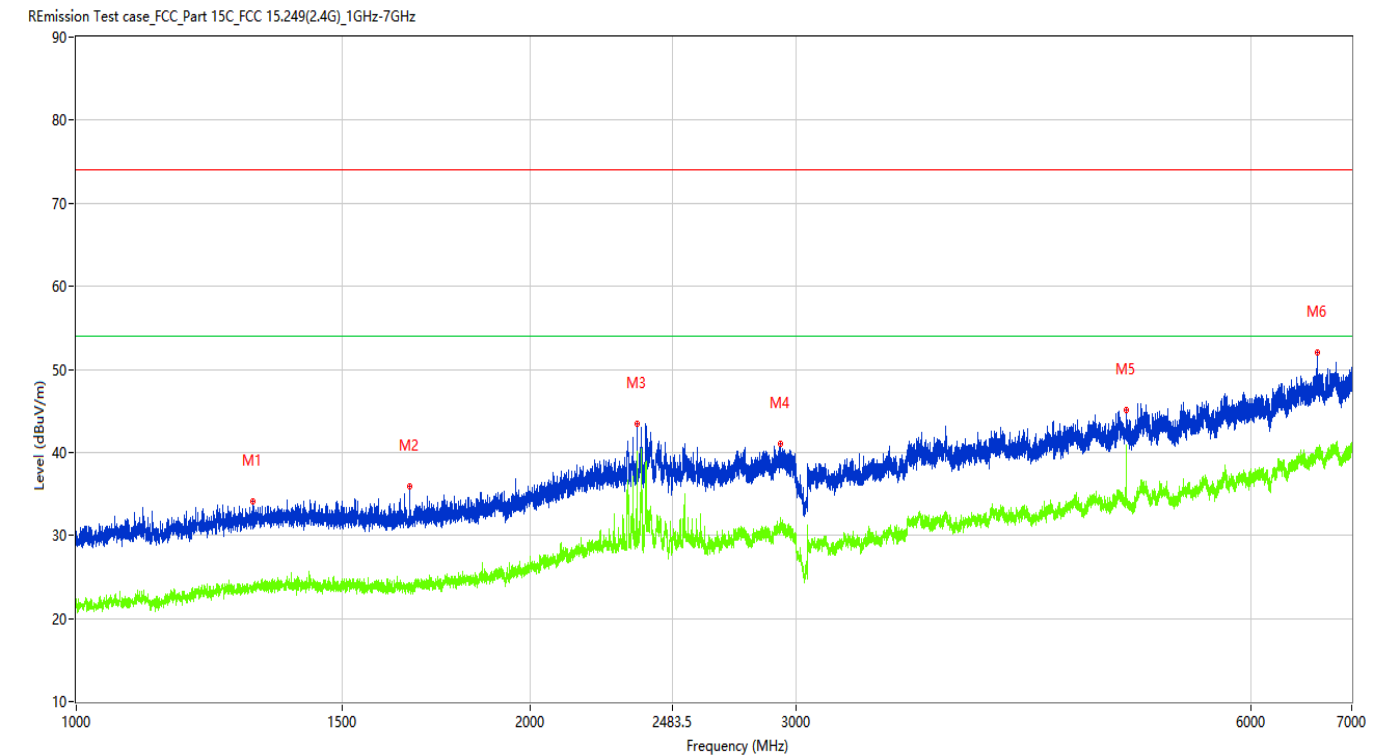
Figure 20: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.525	37.26	-25.62	40.0	2.74	Peak	360.00	102	Vertical	Pass
1*	43.525	27.20	-25.62	40.0	12.80	QP	360.00	102	Vertical	Pass
2	60.305	35.33	-26.41	40.0	4.67	Peak	360.00	200	Vertical	Pass
3	93.277	30.31	-27.43	43.5	13.19	Peak	167.50	100	Vertical	Pass
4	143.219	27.55	-29.95	43.5	15.95	Peak	360.00	200	Vertical	Pass
5	227.831	29.61	-25.52	46.0	16.39	Peak	60.90	100	Vertical	Pass
6	343.474	22.17	-21.39	46.0	23.83	Peak	360.00	200	Vertical	Pass

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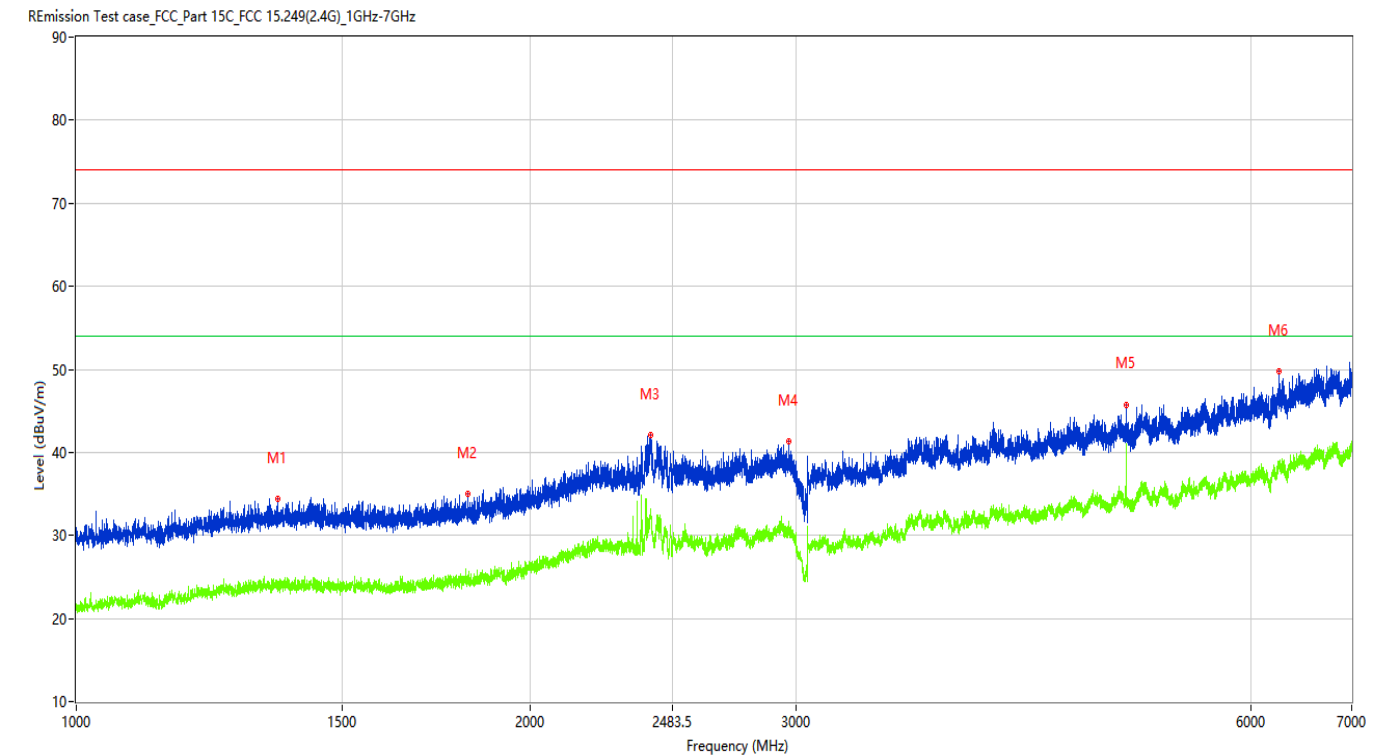
Figure 21: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1309.750	34.14	-13.60	74.0	39.86	Peak	238.70	100	Horizontal	Pass
1**	1309.750	23.67	-13.60	54.0	30.33	AV	238.70	100	Horizontal	Pass
2	1664.000	35.85	-13.75	74.0	38.15	Peak	303.50	100	Horizontal	Pass
2**	1664.000	23.98	-13.75	54.0	30.02	AV	303.50	100	Horizontal	Pass
3	2352.000	43.43	-8.80	74.0	30.57	Peak	205.30	100	Horizontal	Pass
3**	2352.000	40.13	-8.80	54.0	13.87	AV	205.30	100	Horizontal	Pass
4	2926.000	40.97	-5.30	74.0	33.03	Peak	228.10	100	Horizontal	Pass
4**	2926.000	30.78	-5.30	54.0	23.22	AV	228.10	100	Horizontal	Pass
5	4960.000	45.17	-0.99	74.0	28.83	Peak	169.30	100	Horizontal	Pass
5**	4960.000	40.88	-0.99	54.0	13.12	AV	169.30	100	Horizontal	Pass
6	6642.000	52.04	3.77	74.0	21.96	Peak	148.60	100	Horizontal	Pass
6**	6642.000	39.99	3.77	54.0	14.01	AV	148.60	100	Horizontal	Pass

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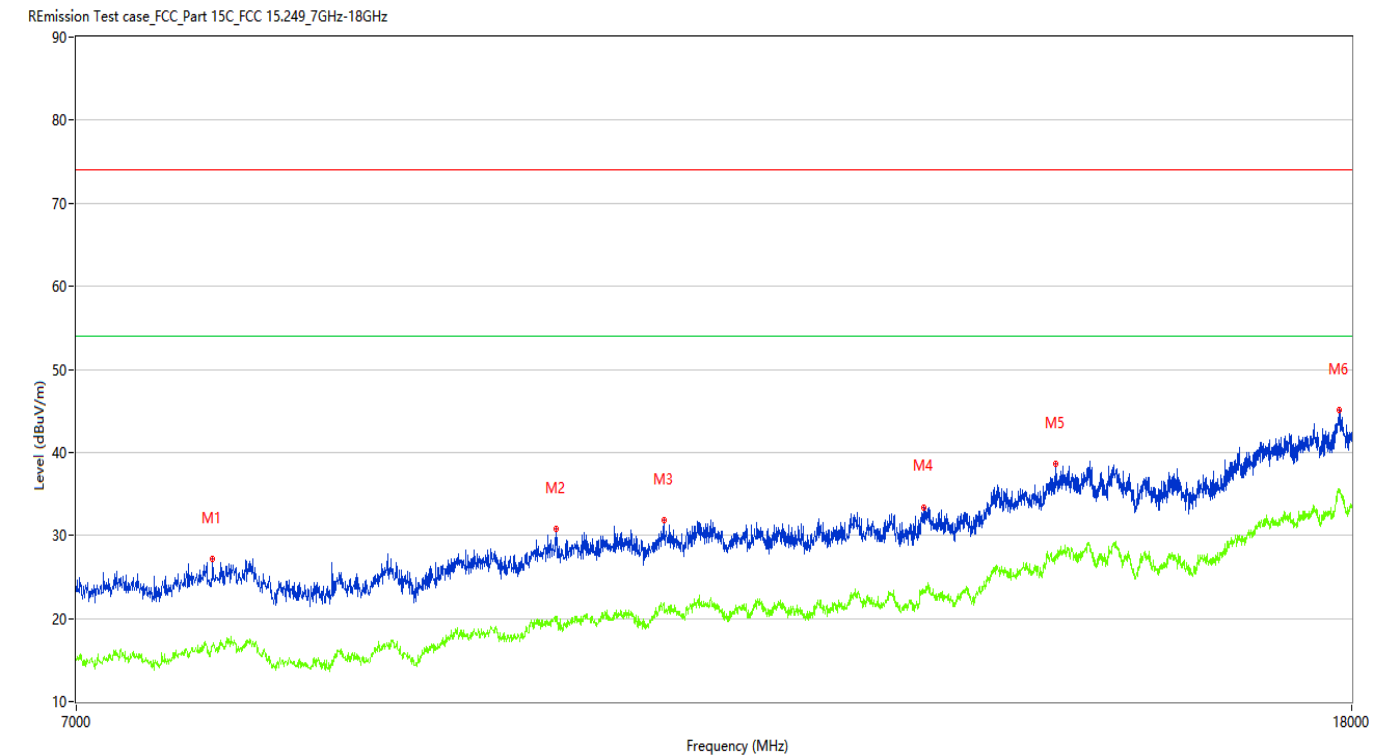
Figure 22: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1359.750	34.43	-13.64	74.0	39.57	Peak	153.90	100	Vertical	Pass
1**	1359.750	24.03	-13.64	54.0	29.97	AV	153.90	100	Vertical	Pass
2	1817.750	35.04	-13.09	74.0	38.96	Peak	85.70	100	Vertical	Pass
2**	1817.750	24.48	-13.09	54.0	29.52	AV	85.70	100	Vertical	Pass
3	2401.500	42.08	-4.93	74.0	31.92	Peak	53.60	100	Vertical	Pass
3**	2401.500	32.56	-4.93	54.0	21.44	AV	53.60	100	Vertical	Pass
4	2967.750	41.30	-4.75	74.0	32.70	Peak	64.70	100	Vertical	Pass
4**	2967.750	31.63	-4.75	54.0	22.37	AV	64.70	100	Vertical	Pass
5	4960.000	45.68	-0.99	74.0	28.32	Peak	201.00	100	Vertical	Pass
5**	4960.000	40.60	-0.99	54.0	13.40	AV	201.00	100	Vertical	Pass
6	6261.000	49.80	2.15	74.0	24.20	Peak	360.00	100	Vertical	Pass
6**	6261.000	38.92	2.15	54.0	15.08	AV	360.00	100	Vertical	Pass

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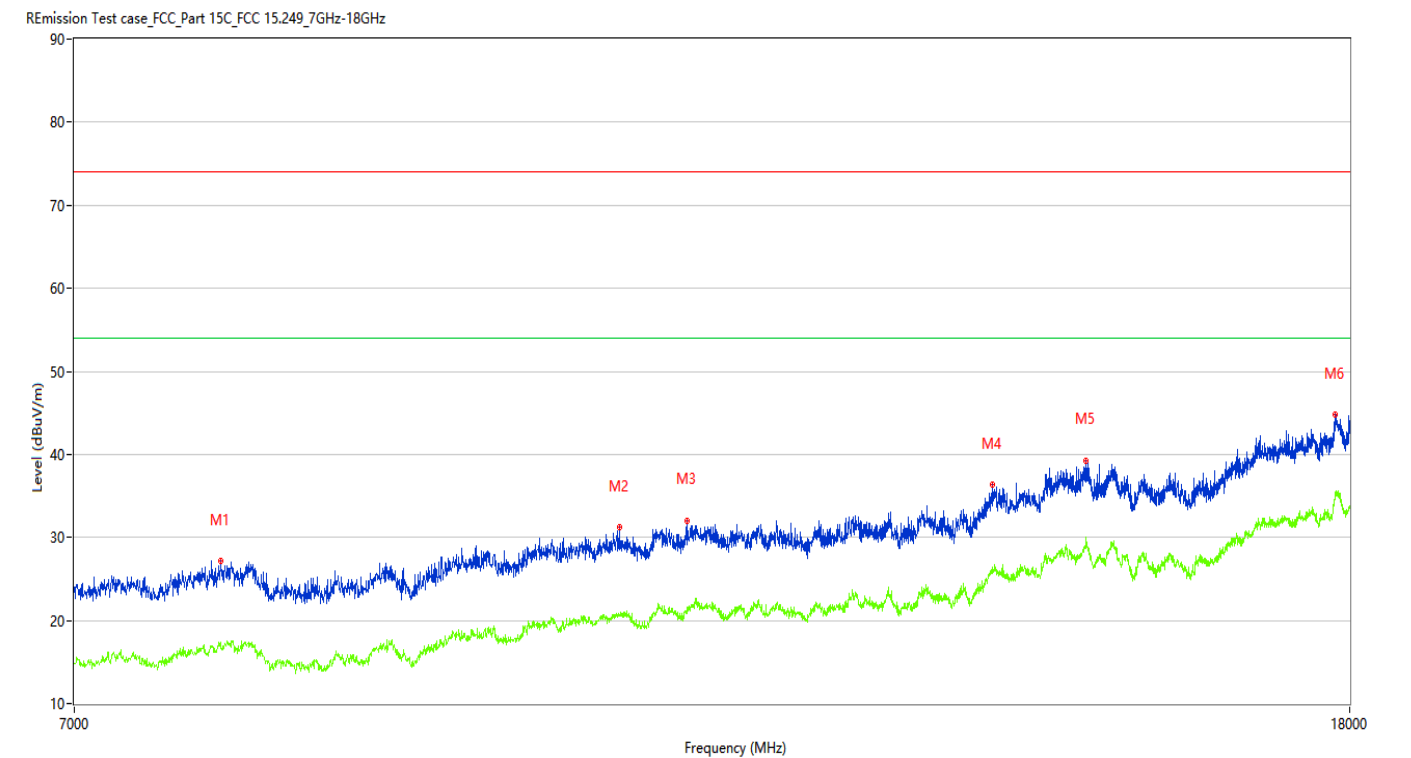
Figure 23: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7742.500	27.21	0.51	74.0	46.79	Peak	286.70	100	Horizontal	Pass
1**	7742.500	16.58	0.51	54.0	37.42	AV	286.70	100	Horizontal	Pass
2	9983.750	30.80	3.42	74.0	43.20	Peak	173.00	100	Horizontal	Pass
2**	9983.750	19.71	3.42	54.0	34.29	AV	173.00	100	Horizontal	Pass
3	10814.250	31.86	4.43	74.0	42.14	Peak	286.70	100	Horizontal	Pass
3**	10814.250	21.87	4.43	54.0	32.13	AV	286.70	100	Horizontal	Pass
4	13113.250	33.43	6.03	74.0	40.57	Peak	0.00	100	Horizontal	Pass
4**	13113.250	23.40	6.03	54.0	30.60	AV	0.00	100	Horizontal	Pass
5	14452.500	38.65	9.58	74.0	35.35	Peak	273.30	100	Horizontal	Pass
5**	14452.500	27.07	9.58	54.0	26.93	AV	273.30	100	Horizontal	Pass
6	17837.750	45.08	15.70	74.0	28.92	Peak	89.00	100	Horizontal	Pass
6**	17837.750	35.40	15.70	54.0	18.60	AV	89.00	100	Horizontal	Pass

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Figure 24: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7800.250	27.20	0.86	74.0	46.80	Peak	221.90	100	Vertical	Pass
1**	7800.250	17.43	0.86	54.0	36.57	AV	221.90	100	Vertical	Pass
2	10478.750	31.26	4.16	74.0	42.74	Peak	64.00	100	Vertical	Pass
2**	10478.750	20.72	4.16	54.0	33.28	AV	64.00	100	Vertical	Pass
3	11023.250	32.06	4.83	74.0	41.94	Peak	221.90	100	Vertical	Pass
3**	11023.250	21.64	4.83	54.0	32.36	AV	221.90	100	Vertical	Pass
4	13817.250	36.31	7.68	74.0	37.69	Peak	137.40	100	Vertical	Pass
4**	13817.250	26.36	7.68	54.0	27.64	AV	137.40	100	Vertical	Pass
5	14810.000	39.30	11.72	74.0	34.70	Peak	234.20	100	Vertical	Pass
5**	14810.000	29.99	11.72	54.0	24.01	AV	234.20	100	Vertical	Pass
6	17804.751	44.83	15.19	74.0	29.17	Peak	331.40	100	Vertical	Pass
6**	17804.751	34.86	15.19	54.0	19.14	AV	331.40	100	Vertical	Pass

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4.1.3 Band Edge

RESULT:

PASS

Test standard : FCC Part 15.249(d),15.209

Requirement : ANSI C63.10-2020

Kind of test site : 3m Semi-Anechoic Chamber

Test setup

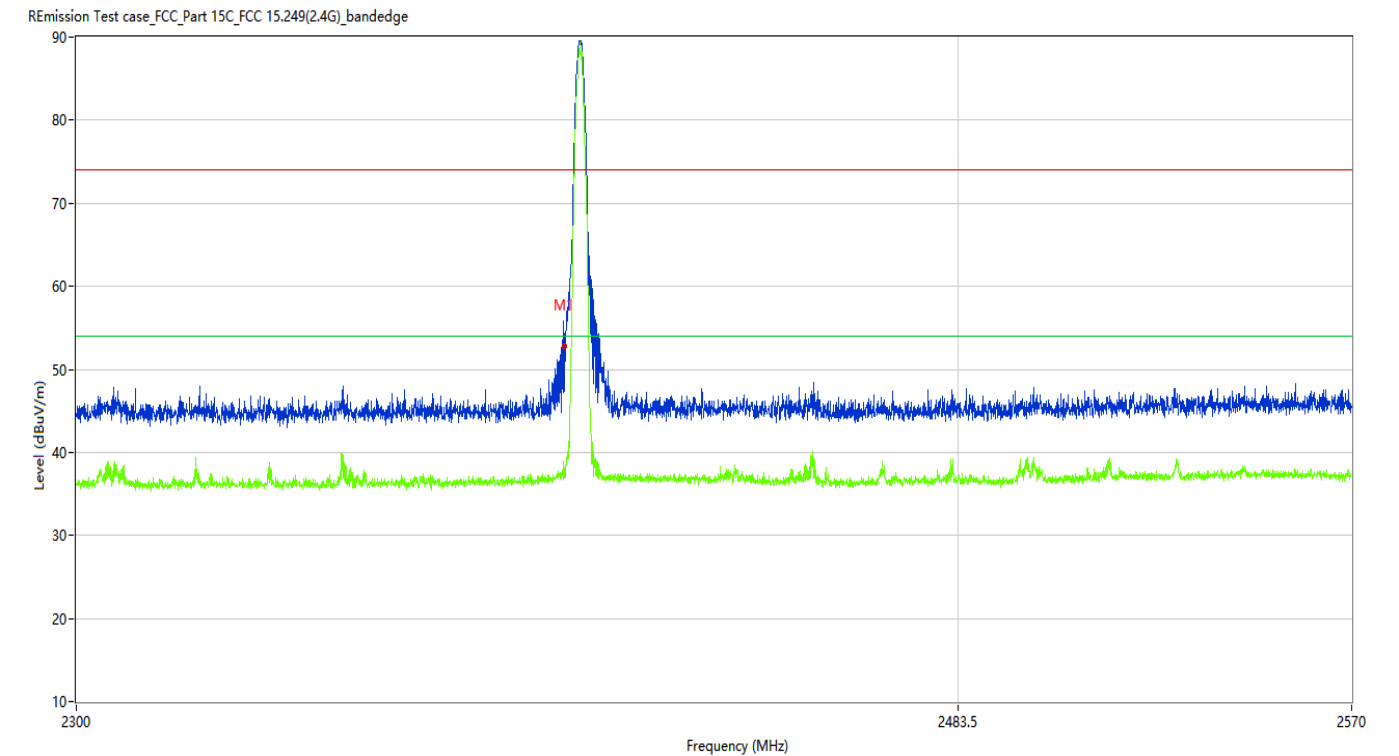
Test Channel : Low/High

Operation Mode : A.i/iii

Ambient temperature : 24.8°C

Relative humidity : 45%

Figure 25: Test plots of Band Edge, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	52.78	-10.39	74.0	21.22	Peak	211.02	100	Horizontal	Pass
1**	2400.000	37.68	-10.39	54.0	16.32	AV	211.02	100	Horizontal	Pass

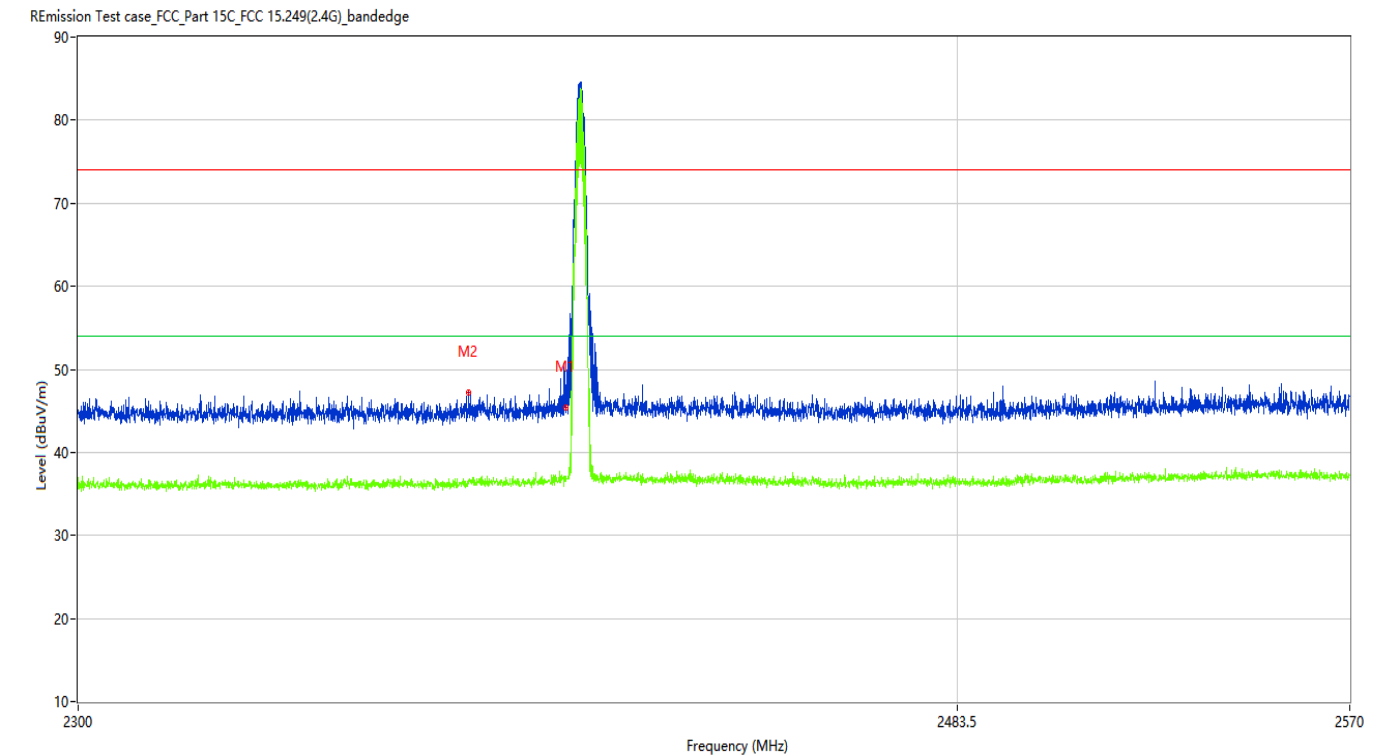
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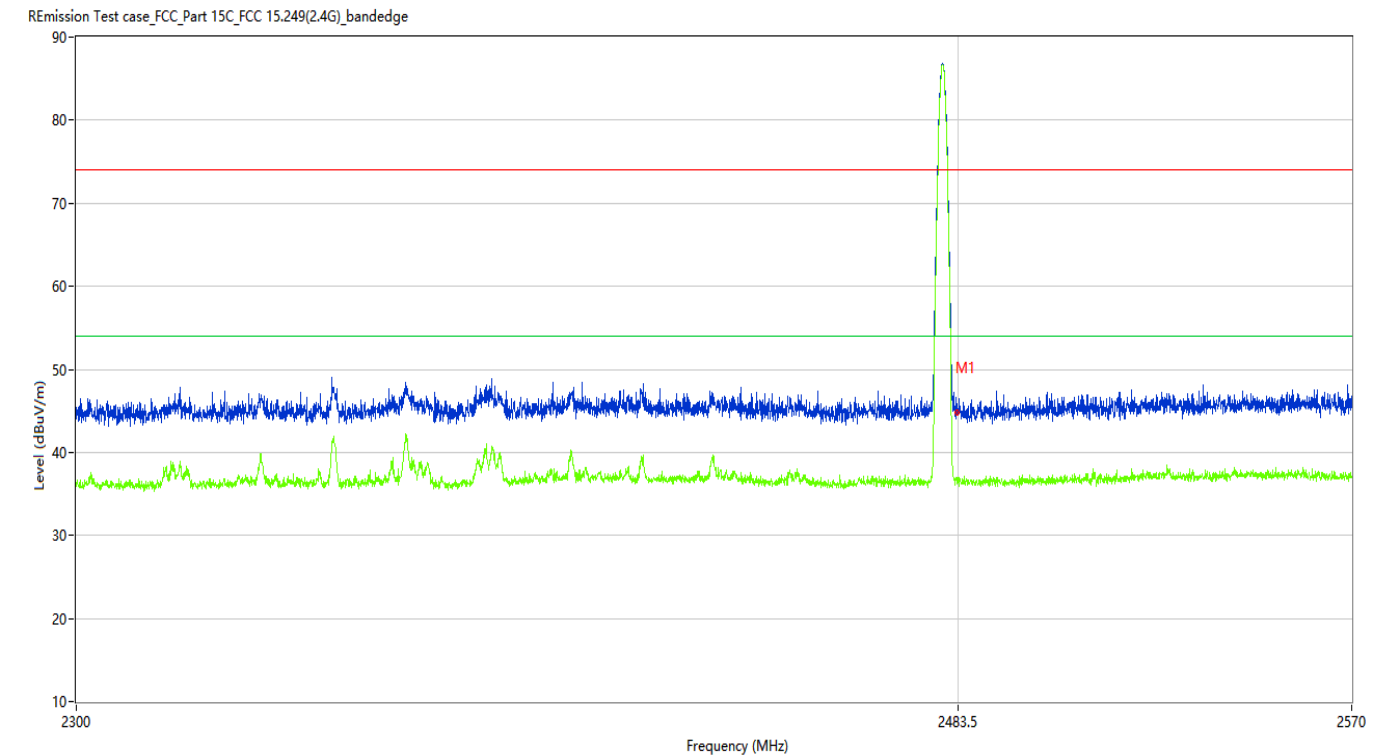
Figure 26: Test plots of Band Edge, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	45.09	-10.39	74.0	28.91	Peak	77.40	100	Vertical	Pass
1**	2400.000	36.88	-10.39	54.0	17.12	AV	77.40	100	Vertical	Pass
2	2379.718	47.24	-10.81	74.0	26.76	Peak	324.70	100	Vertical	Pass
2**	2379.718	36.19	-10.81	54.0	17.81	AV	324.70	100	Vertical	Pass

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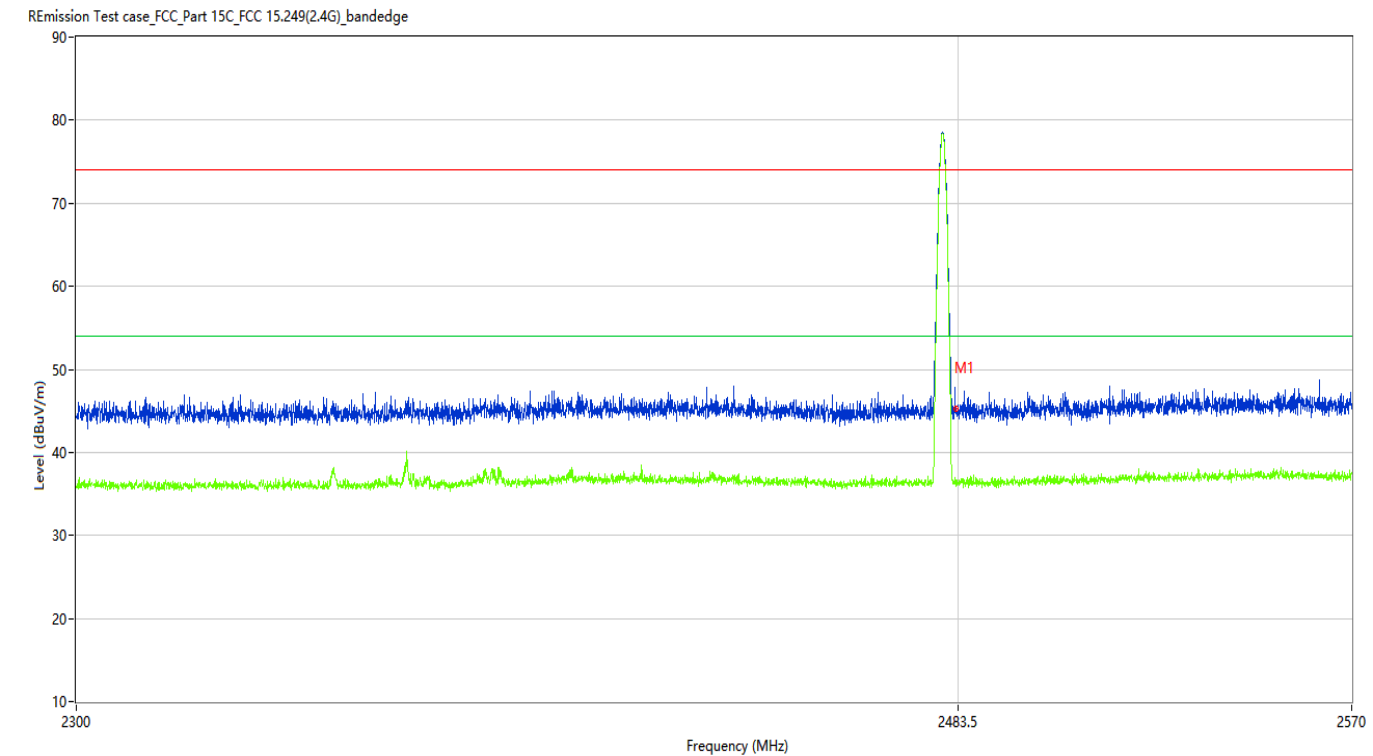
Figure 27: Test plots of Band Edge, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	44.78	-10.74	74.0	29.22	Peak	324.00	100	Horizontal	Pass
1**	2483.500	36.85	-10.74	54.0	17.15	AV	324.00	100	Horizontal	Pass

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Figure 28: Test plots of Band Edge, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	45.22	-10.74	74.0	28.78	Peak	184.73	100	Vertical	Pass
1**	2483.500	36.21	-10.74	54.0	17.79	AV	184.73	100	Vertical	Pass

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4.1.4 20dB Bandwidth and 99% Bandwidth

RESULT: PASS

Test standard : FCC Part 15.215(c)
Requirement : ANSI C63.10-2020
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.i/ii/iii
Ambient temperature : 24.5°C
Relative humidity : 42%

Table 1: 20dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
GFSK	2403	0.904	0.913
	2442	0.806	0.920
	2480	0.906	0.918

Figure 29: The plots of 20dB Bandwidth and 99% Bandwidth, 2403MHz



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Figure 30: The plots of 20dB Bandwidth and 99% Bandwidth, 2442MHz

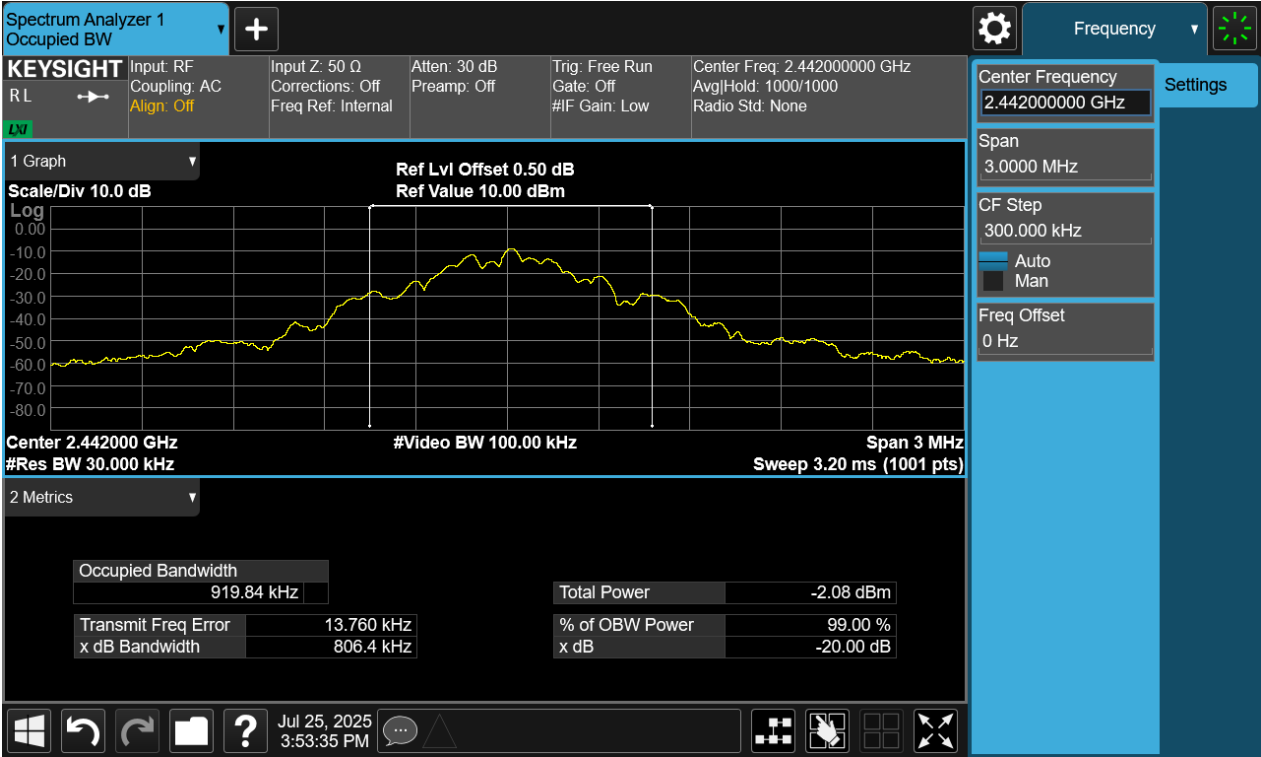
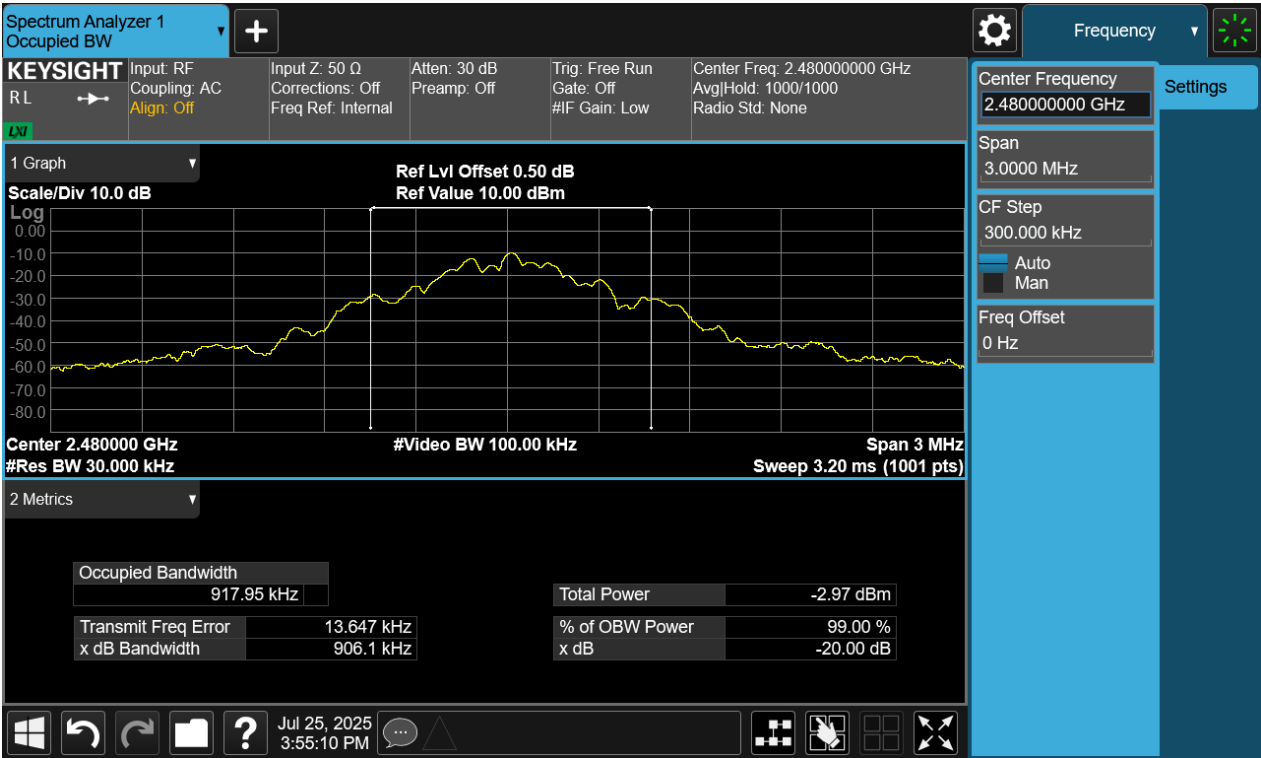


Figure 31: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz



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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a)
Requirement	: ANSI C63.10-2020 clause 6.2
Kind of test site	: Shielded room

Test setup

Input Voltage	: DC 29V supply by adapter (which received AC 120V, 60Hz)
Operation Mode	: A.i/ii/iii
Earthing	: Disconnected to GND
Ambient temperature	: 25°C
Relative humidity	: 43%

For details refer to following test plot.

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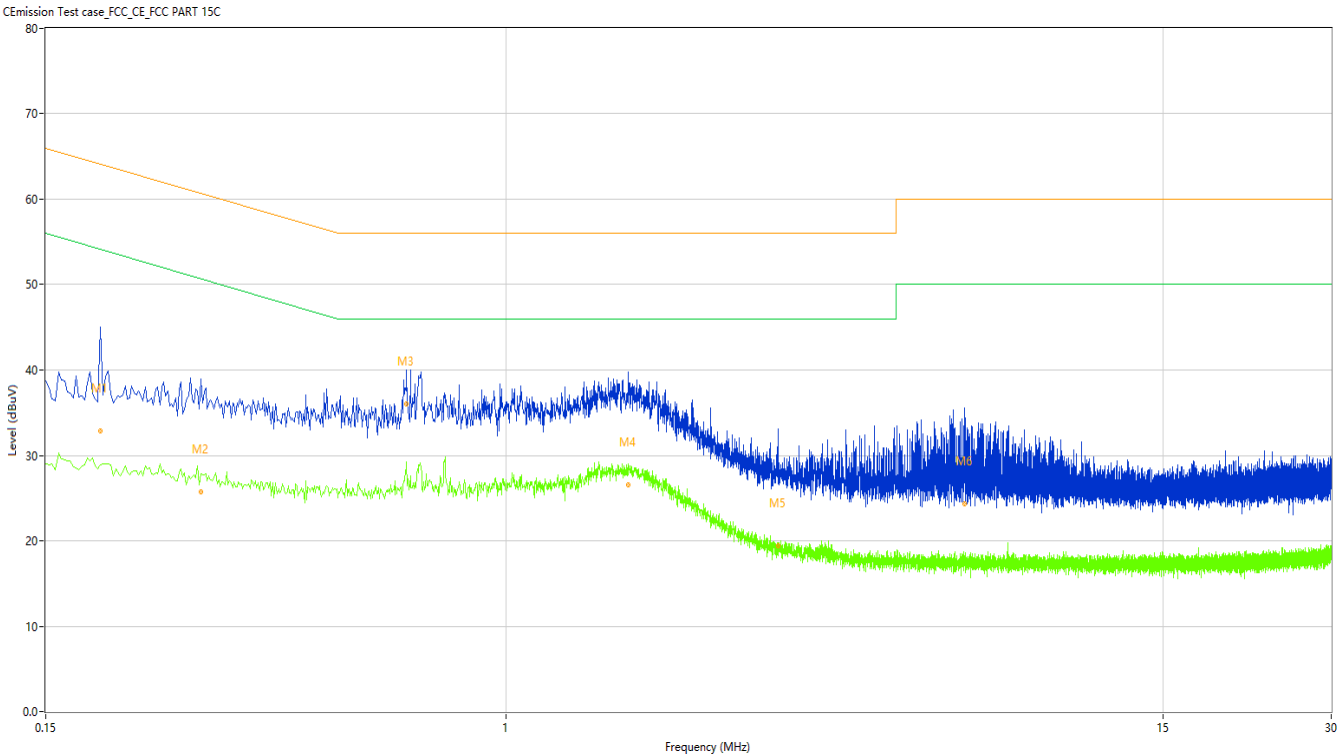
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Note: The all configurations were tested respectively, but only the worst configuration (at low channel) shown here.

Figure 32: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	49.94	10.29	64.12	14.18	Peak	L	Pass
1*	0.188	32.89	10.29	64.12	31.23	QP	L	Pass
1**	0.188	28.86	10.29	54.12	25.26	AV	L	Pass
2	0.284	41.12	10.16	60.70	19.58	Peak	L	Pass
2*	0.284	25.72	10.16	60.70	34.98	QP	L	Pass
2**	0.284	27.79	10.16	50.70	22.91	AV	L	Pass
3	0.664	39.94	10.30	56.00	16.06	Peak	L	Pass
3*	0.664	35.97	10.30	56.00	20.03	QP	L	Pass
3**	0.664	29.27	10.30	46.00	16.73	AV	L	Pass
4	1.656	40.28	10.06	56.00	15.72	Peak	L	Pass
4*	1.656	26.59	10.06	56.00	29.41	QP	L	Pass
4**	1.656	28.98	10.06	46.00	17.02	AV	L	Pass
5	3.068	30.58	10.10	56.00	25.42	Peak	L	Pass
5*	3.068	19.40	10.10	56.00	36.60	QP	L	Pass
5**	3.068	18.95	10.10	46.00	27.05	AV	L	Pass
6	6.626	35.17	10.25	60.00	24.83	Peak	L	Pass
6*	6.626	24.34	10.25	60.00	35.66	QP	L	Pass
6**	6.626	18.11	10.25	50.00	31.89	AV	L	Pass

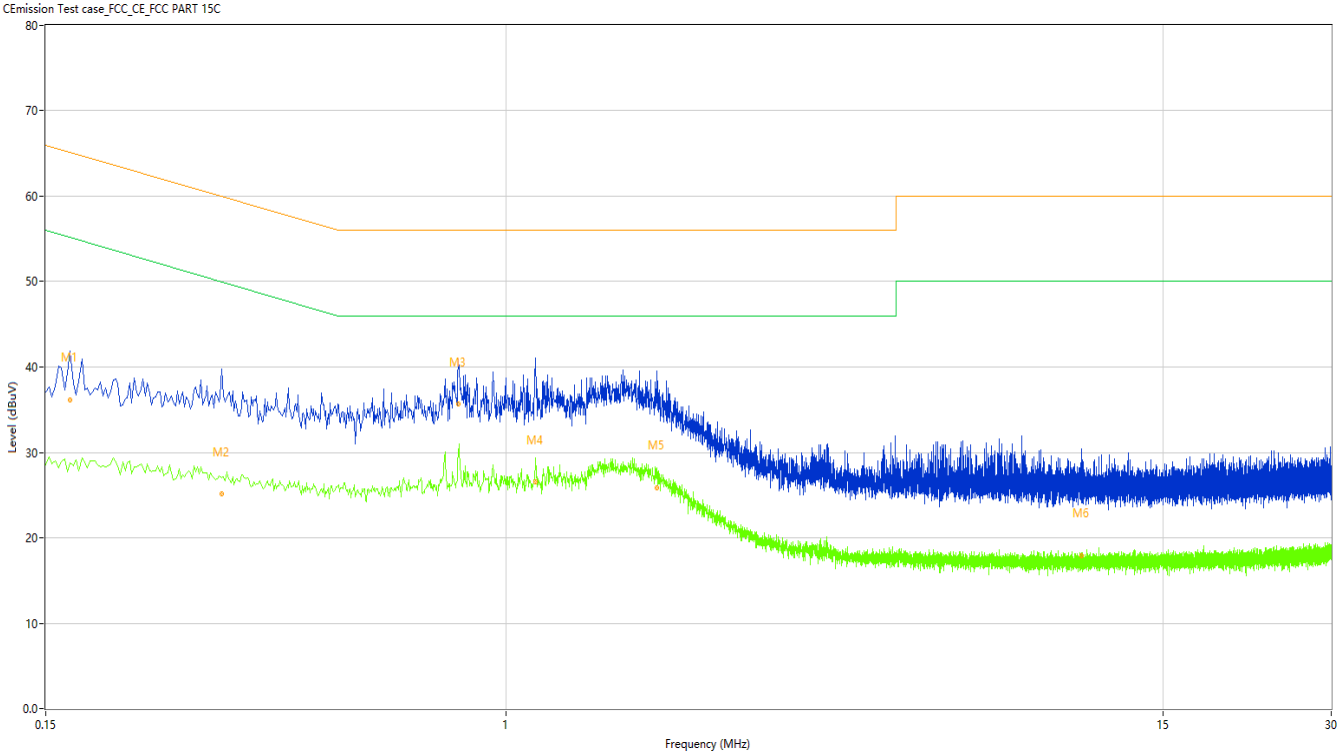
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Figure 33: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	53.14	10.14	65.16	12.02	Peak	N	Pass
1*	0.166	36.19	10.14	65.16	28.97	QP	N	Pass
1**	0.166	28.72	10.14	55.16	26.44	AV	N	Pass
2	0.310	37.77	10.10	59.97	22.20	Peak	N	Pass
2*	0.310	25.10	10.10	59.97	34.87	QP	N	Pass
2**	0.310	27.01	10.10	49.97	22.96	AV	N	Pass
3	0.822	41.57	10.13	56.00	14.43	Peak	N	Pass
3*	0.822	35.62	10.13	56.00	20.38	QP	N	Pass
3**	0.822	29.92	10.13	46.00	16.08	AV	N	Pass
4	1.130	36.95	9.84	56.00	19.05	Peak	N	Pass
4*	1.130	26.61	9.84	56.00	29.39	QP	N	Pass
4**	1.130	29.32	9.84	46.00	16.68	AV	N	Pass
5	1.860	38.16	9.98	56.00	17.84	Peak	N	Pass
5*	1.860	25.82	9.98	56.00	30.18	QP	N	Pass
5**	1.860	28.23	9.98	46.00	17.77	AV	N	Pass
6	10.724	28.97	10.29	60.00	31.03	Peak	N	Pass
6*	10.724	17.92	10.29	60.00	42.08	QP	N	Pass
6**	10.724	17.88	10.29	50.00	32.12	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

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Left of the sample



Right of the sample

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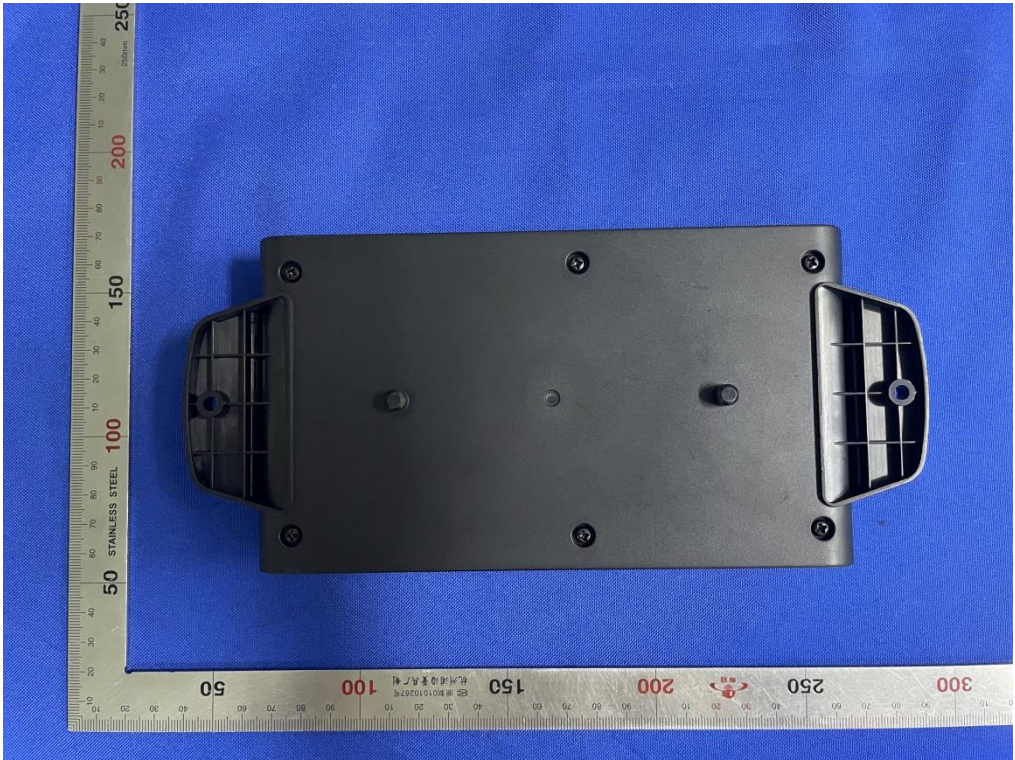
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Top of the sample



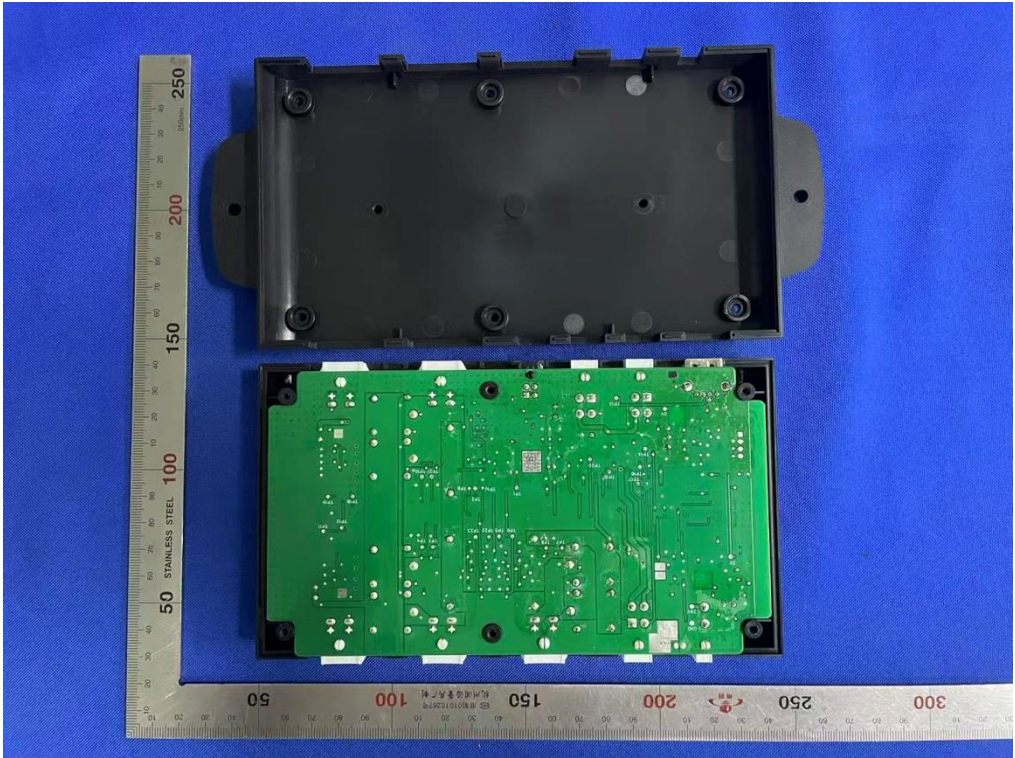
Bottom of the sample

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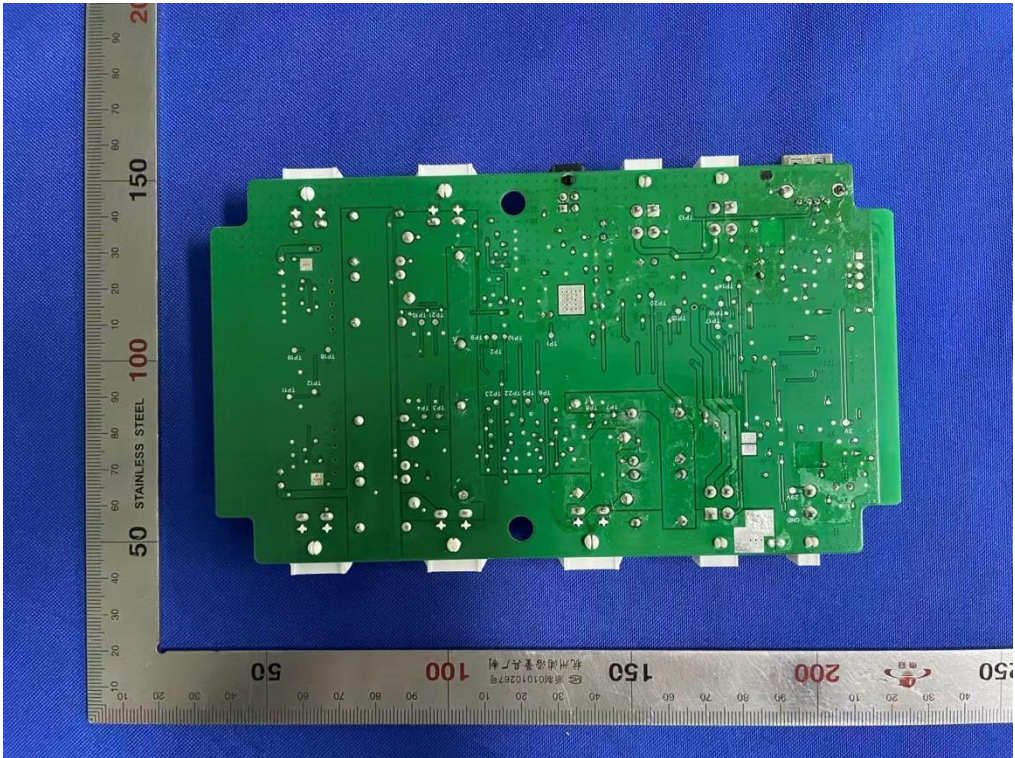
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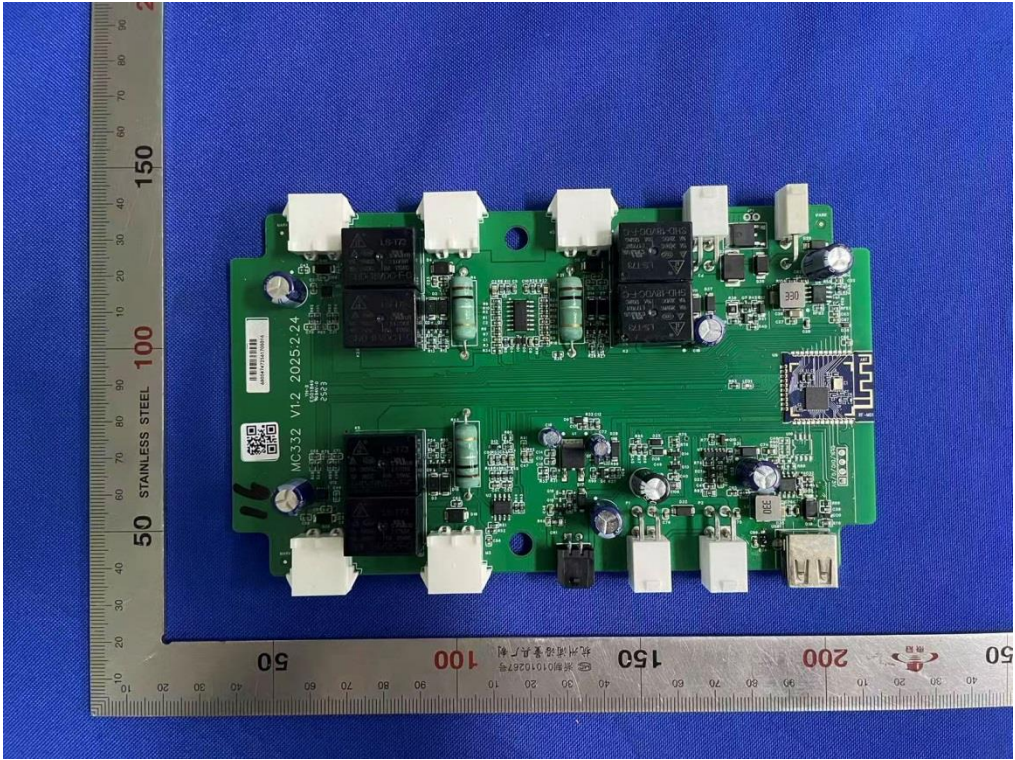


Open of the sample

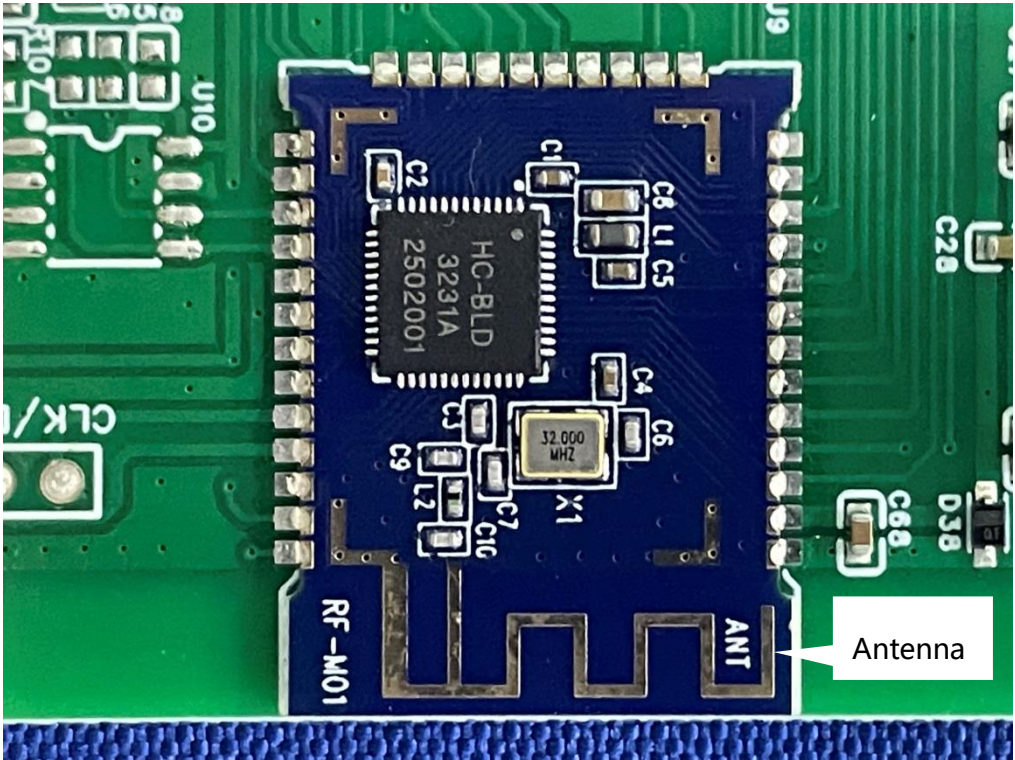


Internal photo-1 of the sample

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Internal photo-2 of the sample



Antenna position of the sample

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5.2 Set-up for Conducted Emissions



5.3 Set-up for Spurious Emissions below 1GHz



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5.4 Set-up for Spurious Emissions above 1GHz



End of the report