

TEST REPORT

Report No.: SHE23060075-02AE

Date: 2023-07-10

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Applicant : Keeson Technology Corporation Limited
Address of Applicant : No. 195, Yuanfeng East Road, Wangjiangjing, Xiuzhou District, Jiaxing City, 314000, China

Product Name : REMOTE CONTROL
Brand Name : N/A
Model Name : RF426A-07
Sample Acquisition Method : Sent by Client
Sample No. : E23060075-02#01
E23060075-02#02
FCC ID : 2AK23-RF426A
ISED Number : 22406-RF426A

Standards : FCC CFR47 Part 15, Subpart C Section 15.249
RSS-Gen (Issue 5, Amd.2-Feb 2021)
RSS-210 (Issue 10, Amendment-Apr 2020)

Date of Receipt : 2023-06-26
Date of Test : 2023-06-27 ~ 2023-07-07
Date of Issue : 2023-07-10

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)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Guoyou Chi)

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1 General Information

1.1 Testing Laboratory

ISED CAB identifier #	CN0081
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
Address	No. 195, Yuanfeng East Road,Wangjiangjing, Xiuzhou District,Jiaxing City,314000,China
Contact Person	Sam xu
Telephone	18279170755
Email	xuwb@keeson.com
Manufacturer Company Name	DewertOkin Technology Group Co., Ltd.
Address	No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City, Zhejiang Province, China.
Factory Company Name	DewertOkin Technology Group Co., Ltd.
Address	No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

1.3 Details of EUT

Product Name	REMOTE CONTROL
Brand Name	N/A
Test Model Name	RF426A-07
FCC ID	2AK23-RF426A
ISED Number	22406-RF426A
Operation Frequency	2403MHz ~ 2480MHz
Maximum Field Strength	92.26dBuV/m(Peak)@3m
Number of Channels	78
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	1.225dBi
Extreme Temperature Range	-10℃~ +40℃
Test Voltage	DC 3.0V supply by battery
Hardware Version	R5.109.00.1033A

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Software Version	V1.0
RF power setting in TEST SW	Enter the fixed frequency mode by pressing the key_Default power

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
RSS-Gen (Issue 5, Amd.2-Feb 2021)	General Requirements for Compliance of Radio Apparatus
RSS-210 (Issue 10, Amendment-Apr 2020)	Licence-Exempt Radio Apparatus: Category I Equipment
ANSI C63.10-2013	American National Standard for Testing 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	ISED Rules	Result
Antenna Requirement	Part 15.203	RSS-GEN 6.8	PASS
Radiated Emission	FCC Part 15.249(a),15.209	RSS-210 B.10(a) RSS-GEN 8.9	PASS
Band Edge	FCC Part 15.249(d),15.209	RSS-210 B.10(b) RSS-GEN 8.10	PASS
20dB Bandwidth and 99% Bandwidth	FCC Part 15.215(c)	RSS-GEN 6.7	PASS
Conducted Emission on AC Mains	FCC Part 15.207(a)	RSS-Gen 8.8	N/A ^{note}

Note(s): The EUT is powered by battery (DC 3.0V supply by battery)

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2022-08-02	2023-08-01
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2023-06-08	2024-06-07
Signal Generator	Rohde & Schwarz	SMR27	100184	2022-08-02	2023-08-01
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2023-06-08	2024-06-07
DC Power Supply	ITECH	IT6512A	N/A	2022-06-07	2024-06-06
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2023-03-22	2025-03-21
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2023-06-13	2025-06-12
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2023-06-09	2024-06-08
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2023-06-08	2024-06-07
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2023-06-09	2026-06-08
Test Software	BL	BL410_E	Version:1.0.0.117	N/A	N/A
Test Software	BL	BL410_R	Version:2.1.1.409	N/A	N/A

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 expanded 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	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	9KHz – 30MHz	± 3.42 dB
	30 MHz – 1GHz	± 5.00 dB
	> 1GHz	± 4.88 dB
Occupied Channel Bandwidth		± 5 %

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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.
N/A	N/A	N/A	N/A

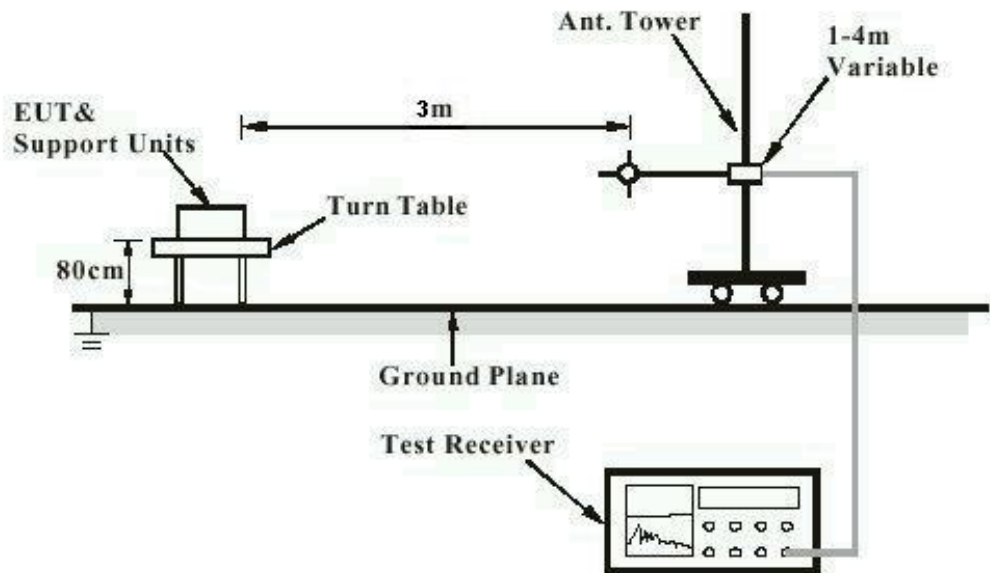
3.3 Support Software

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

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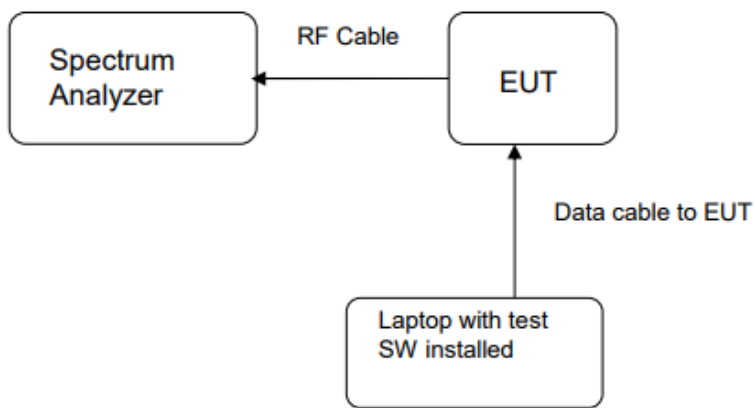
3.4 Test Setup Diagram

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 Configuration for Transmitter Test



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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, RSS-GEN 6.8
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 1.225dBi. 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 RSS-210 B.10(a), RSS-GEN 8.9
Requirement	: ANSI C63.10-2013
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.i/ii/iii
Ambient temperature	: 23.4°C
Relative humidity	: 50%

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.

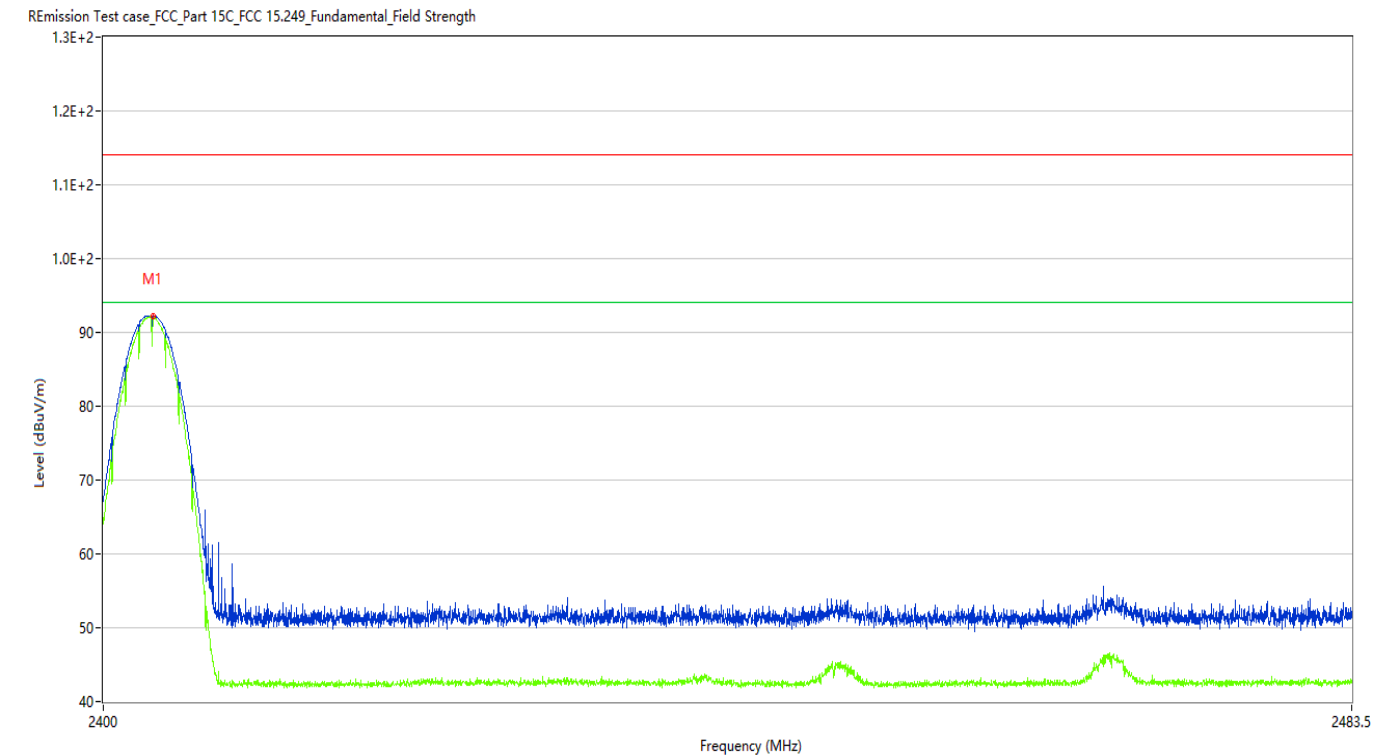
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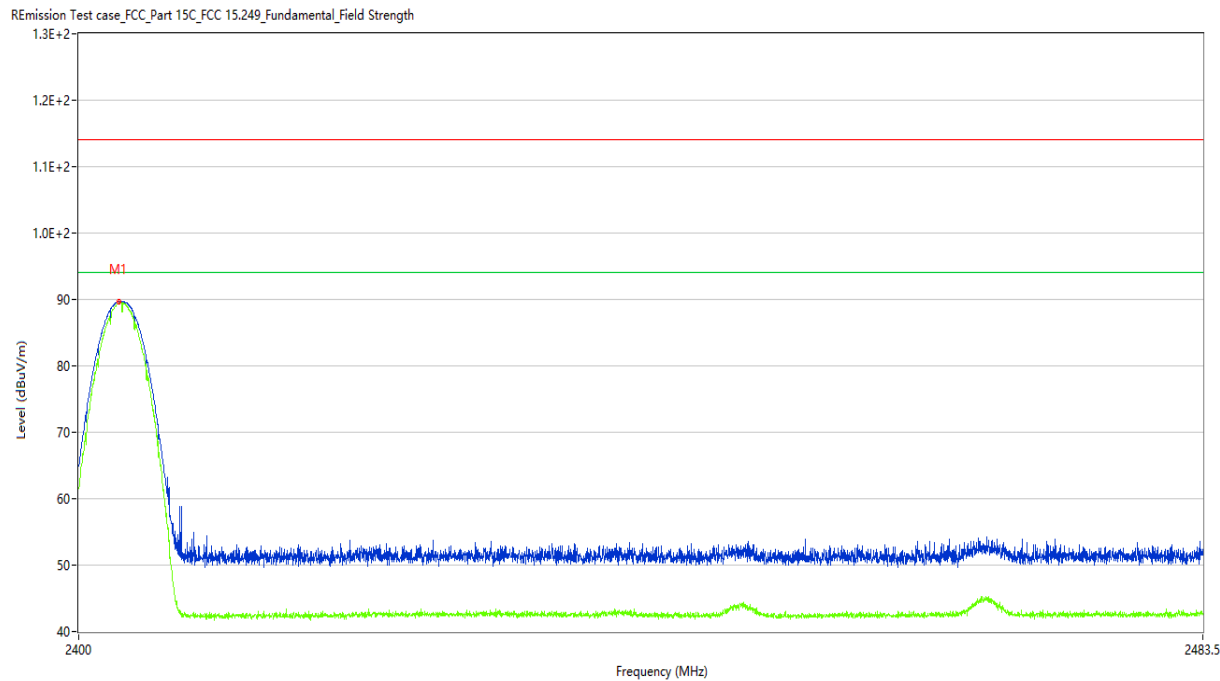
Figure 1: Test plots of Field strength of fundamental, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2403.257	92.26	-9.81	114.0	21.74	Peak	47.70	100	Horizontal	Pass
1**	2403.257	92.07	-9.81	94.0	1.93	AV	47.70	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	2402.964	89.65	-9.82	114.0	24.35	Peak	85.30	100	Vertical	Pass
1**	2402.964	89.45	-9.82	94.0	4.55	AV	85.30	100	Vertical	Pass

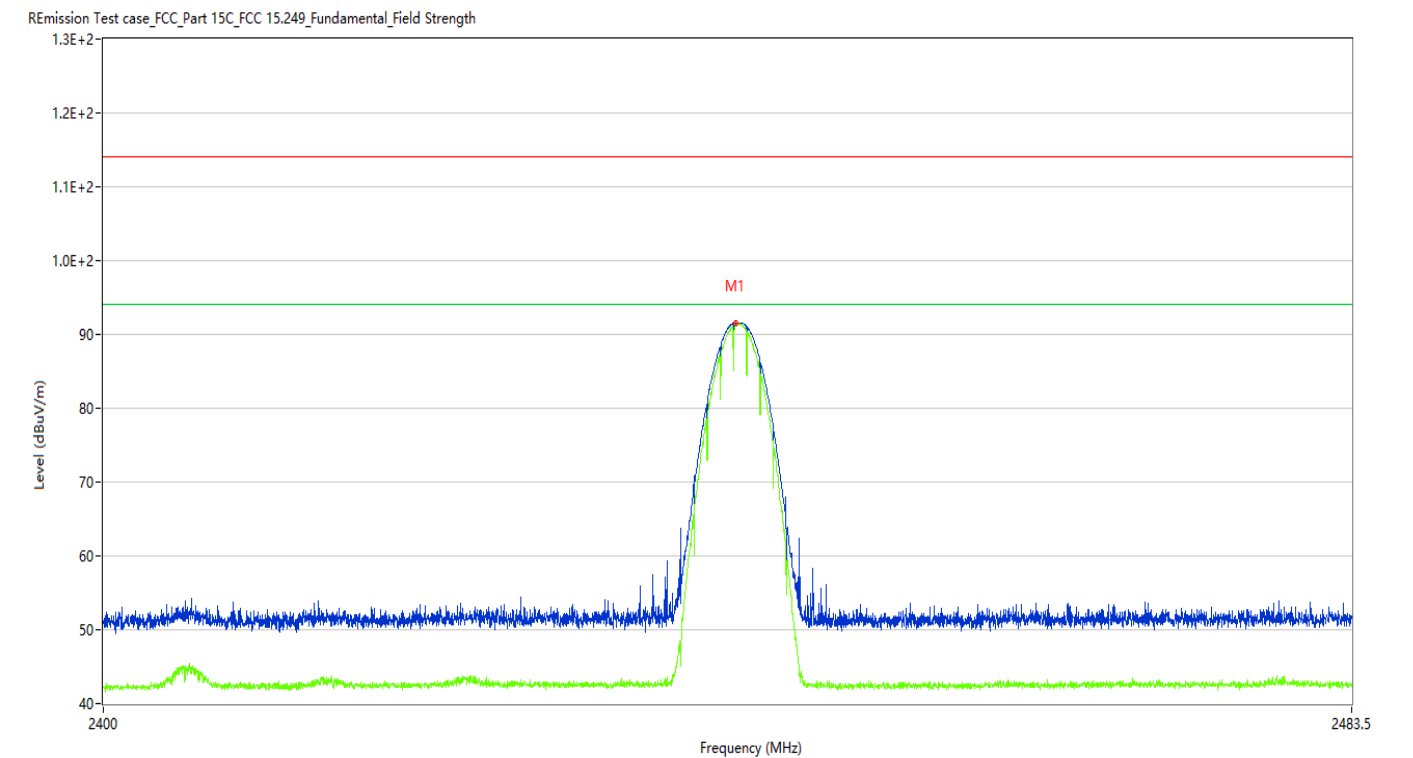
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Figure 3: Test plots of Field strength of fundamental, 2442MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2441.980	91.59	-9.61	114.0	22.41	Peak	113.50	100	Horizontal	Pass
1**	2441.980	91.38	-9.61	94.0	2.62	AV	113.50	100	Horizontal	Pass

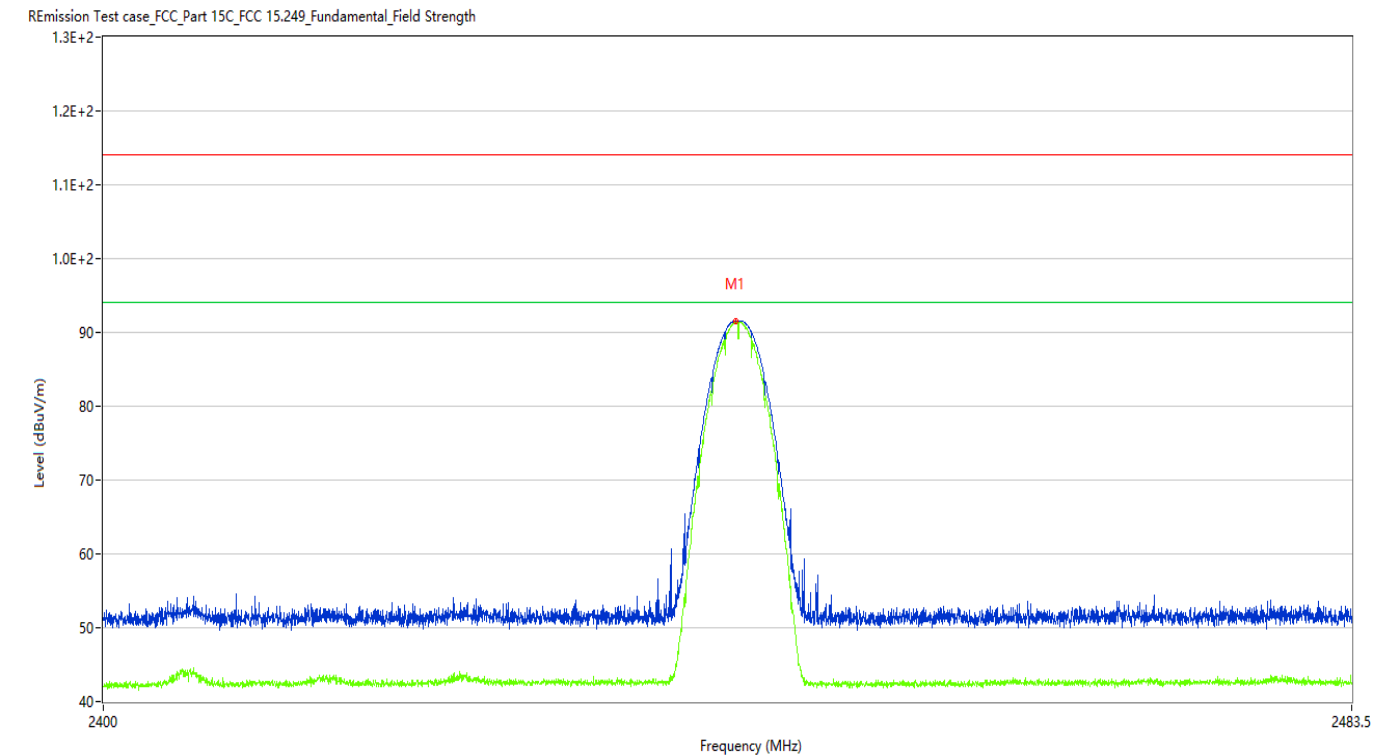
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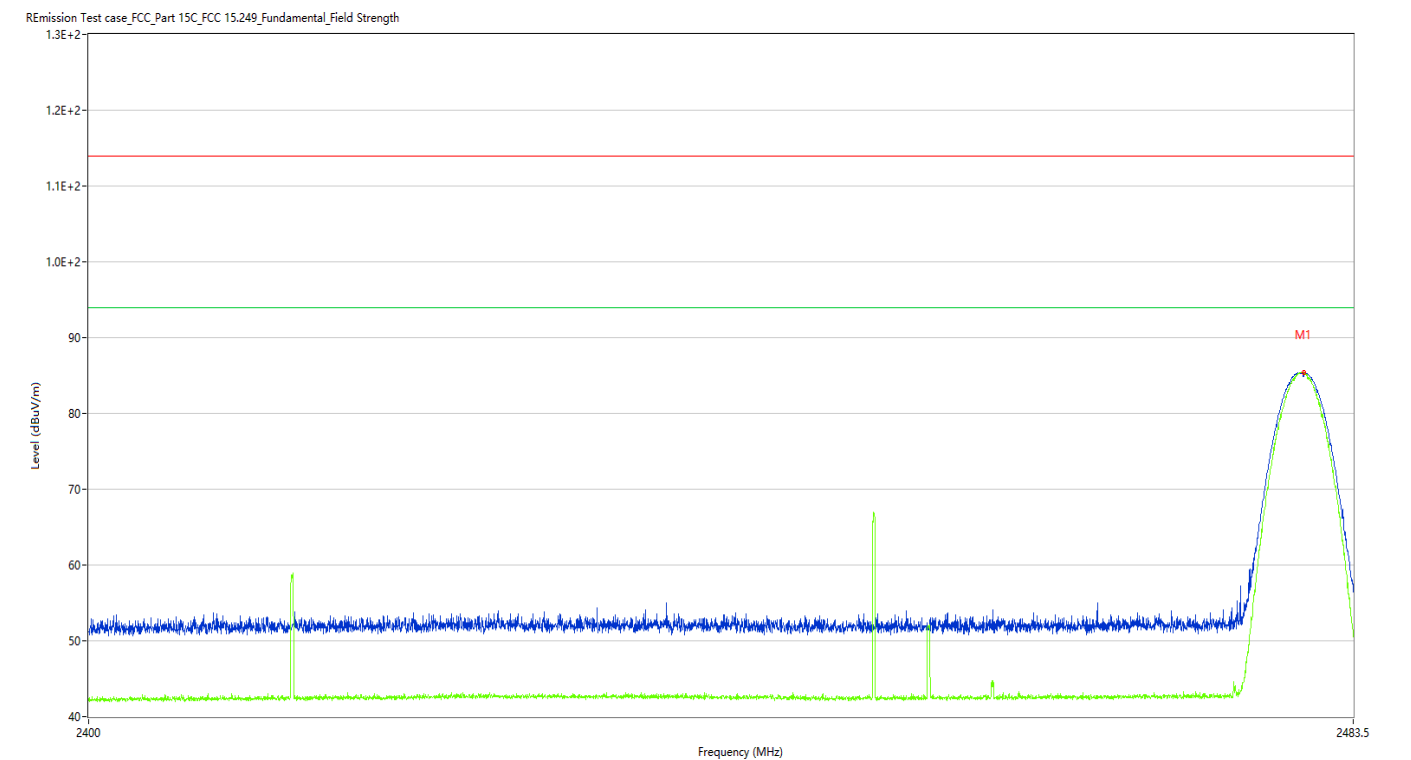
Figure 4: Test plots of Field strength of fundamental, 2442MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2441.959	91.60	-9.61	114.0	22.40	Peak	0.00	100	Vertical	Pass
1**	2441.959	91.40	-9.61	94.0	2.60	AV	0.00	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	2480.202	85.39	-9.48	114.0	28.61	Peak	329.30	200	Horizontal	Pass
1**	2480.202	85.29	-9.48	94.0	8.71	AV	329.30	200	Horizontal	Pass

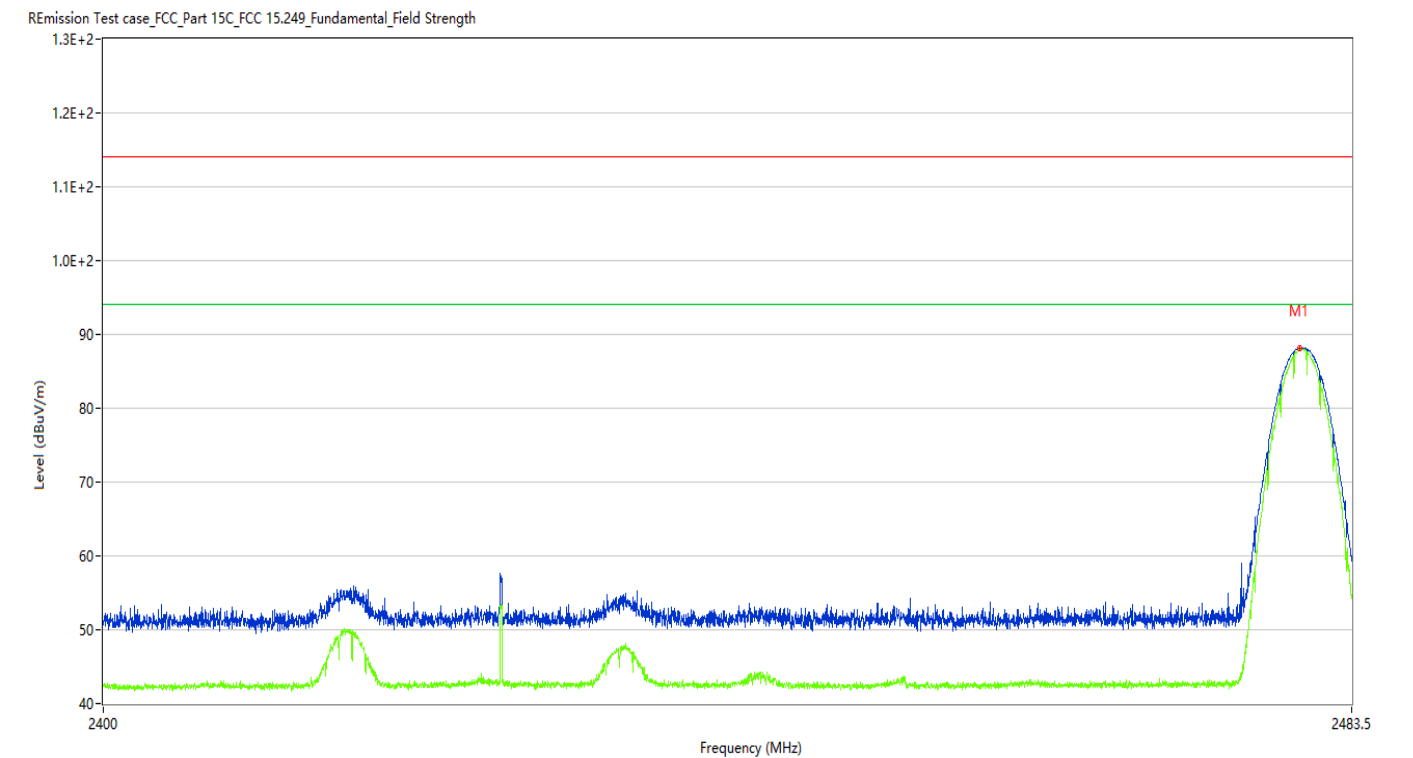
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Figure 6: Test plots of Field strength of fundamental, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2479.951	88.15	-9.48	114.0	25.85	Peak	0.00	100	Vertical	Pass
1**	2479.951	87.92	-9.48	94.0	6.08	AV	0.00	100	Vertical	Pass

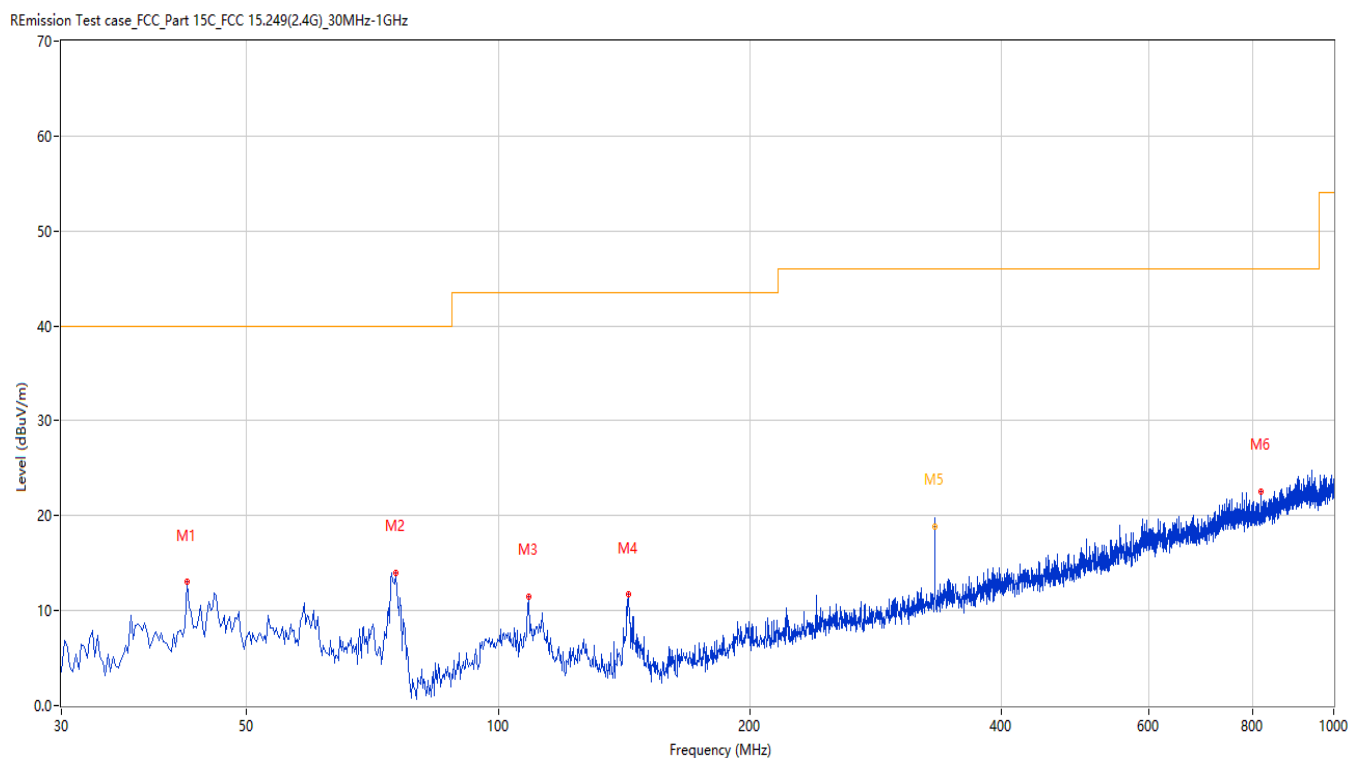
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Figure 7: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.364	12.99	-25.63	40.0	27.01	Peak	138.90	100	Horizontal	Pass
2	75.336	13.96	-31.08	40.0	26.04	Peak	40.70	100	Horizontal	Pass
3	108.793	11.43	-26.82	43.5	32.07	Peak	221.10	100	Horizontal	Pass
4	143.219	11.67	-29.98	43.5	31.83	Peak	2.40	100	Horizontal	Pass
5	333.272	21.45	-22.53	46.0	24.55	Peak	359.50	100	Horizontal	Pass
5*	333.272	18.87	-22.53	46.0	27.13	QP	359.50	100	Horizontal	Pass
6	818.170	22.52	-11.96	46.0	23.48	Peak	178.30	100	Horizontal	Pass

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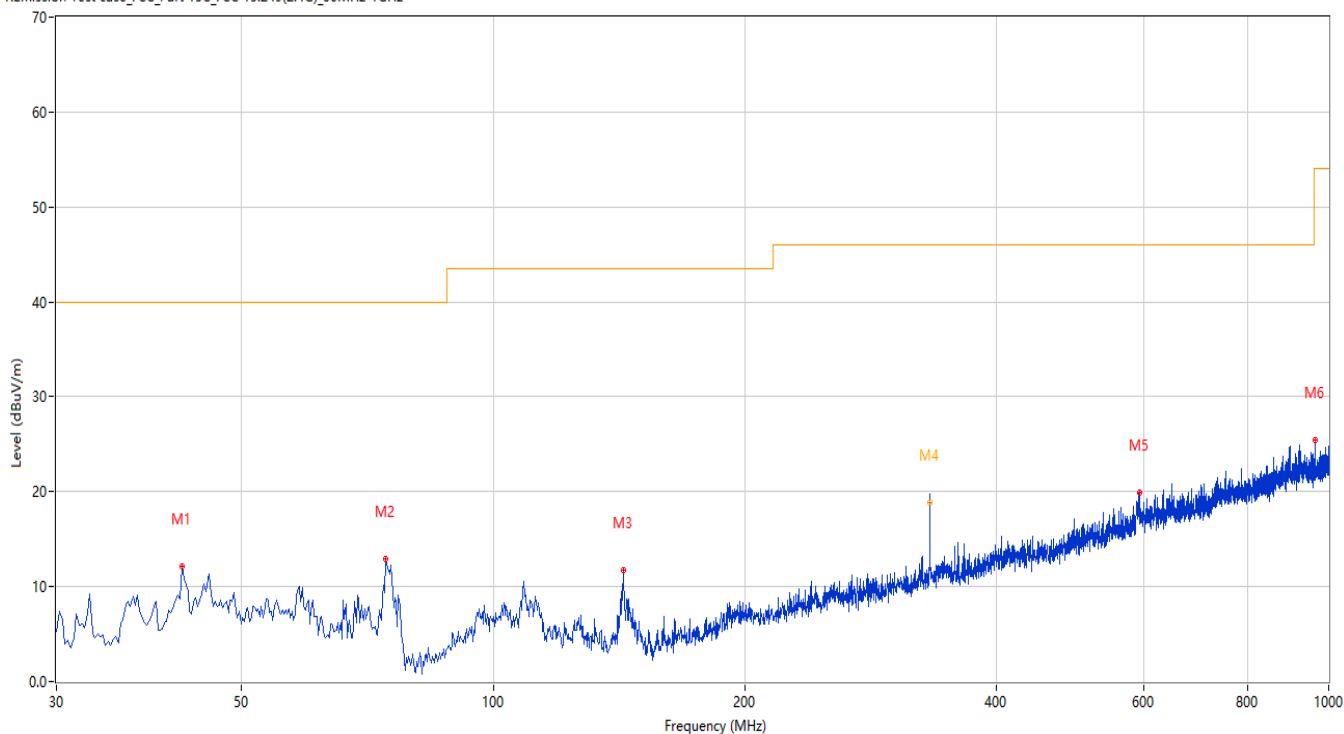
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Figure 8: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Vertical polarization

REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.364	12.13	-25.63	40.0	27.87	Peak	76.10	100	Vertical	Pass
2	74.366	12.98	-30.84	40.0	27.02	Peak	66.50	100	Vertical	Pass
3	143.219	11.77	-29.98	43.5	31.73	Peak	344.80	100	Vertical	Pass
4	333.270	21.29	-22.53	46.0	24.71	Peak	328.00	116	Vertical	Pass
4*	333.270	18.91	-22.53	46.0	27.09	QP	328.00	116	Vertical	Pass
5	593.672	19.96	-15.63	46.0	26.04	Peak	278.50	100	Vertical	Pass
6	963.149	25.46	-9.24	54.0	28.54	Peak	27.00	100	Vertical	Pass

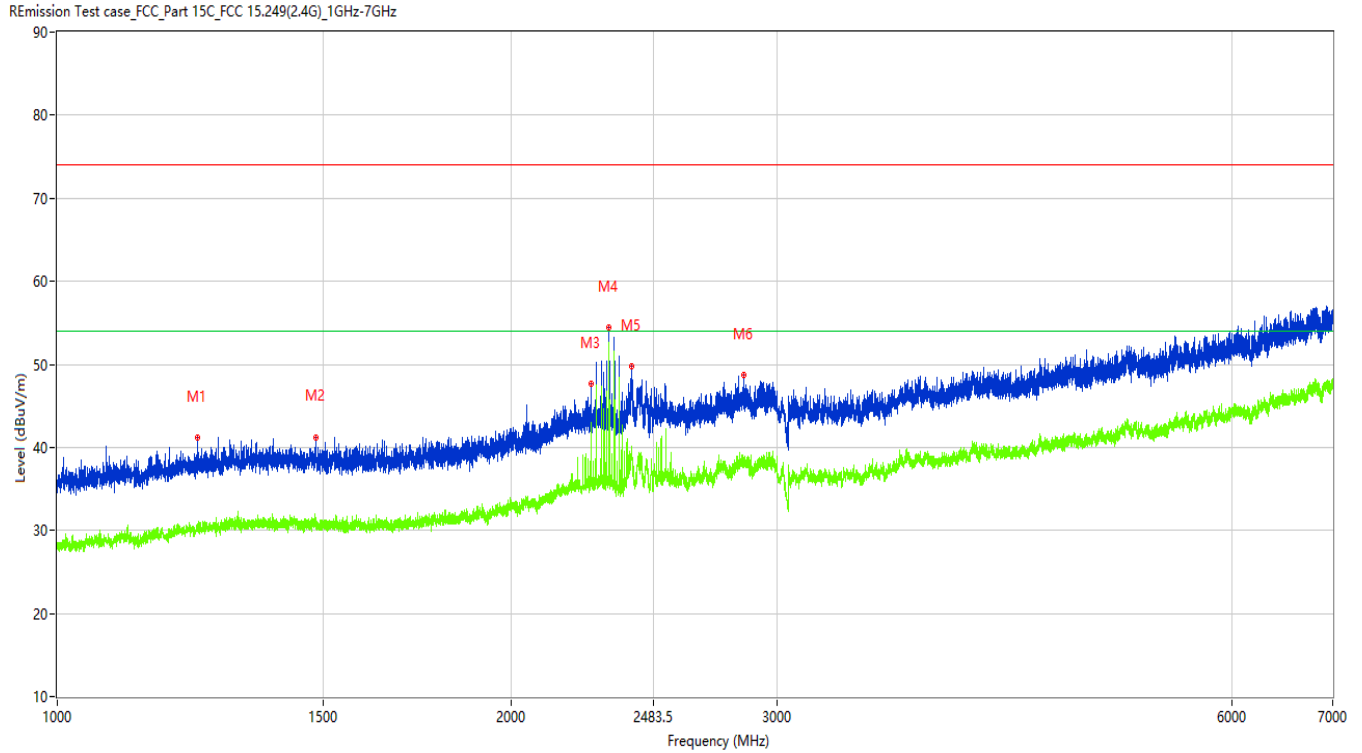
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Figure 9: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1239.000	41.19	-13.19	74.0	32.81	Peak	43.40	100	Horizontal	Pass
1**	1239.000	30.54	-13.19	54.0	23.46	AV	43.40	100	Horizontal	Pass
2	1483.500	41.26	-13.02	74.0	32.74	Peak	43.40	100	Horizontal	Pass
2**	1483.500	31.48	-13.02	54.0	22.52	AV	43.40	100	Horizontal	Pass
3	2257.000	47.61	-7.23	74.0	26.39	Peak	43.40	100	Horizontal	Pass
3**	2257.000	42.45	-7.23	54.0	11.55	AV	43.40	100	Horizontal	Pass
4	2321.000	54.41	-7.69	74.0	19.59	Peak	73.50	100	Horizontal	Pass
4**	2321.000	52.57	-7.69	54.0	1.43	AV	73.50	100	Horizontal	Pass
5	2402.000	49.79	-4.45	74.0	24.21	Peak	154.20	100	Horizontal	Pass
5**	2402.000	39.79	-4.45	54.0	14.21	AV	154.20	100	Horizontal	Pass
6	2851.750	48.73	-3.86	74.0	25.27	Peak	58.20	100	Horizontal	Pass
6**	2851.750	38.06	-3.86	54.0	15.94	AV	58.20	100	Horizontal	Pass

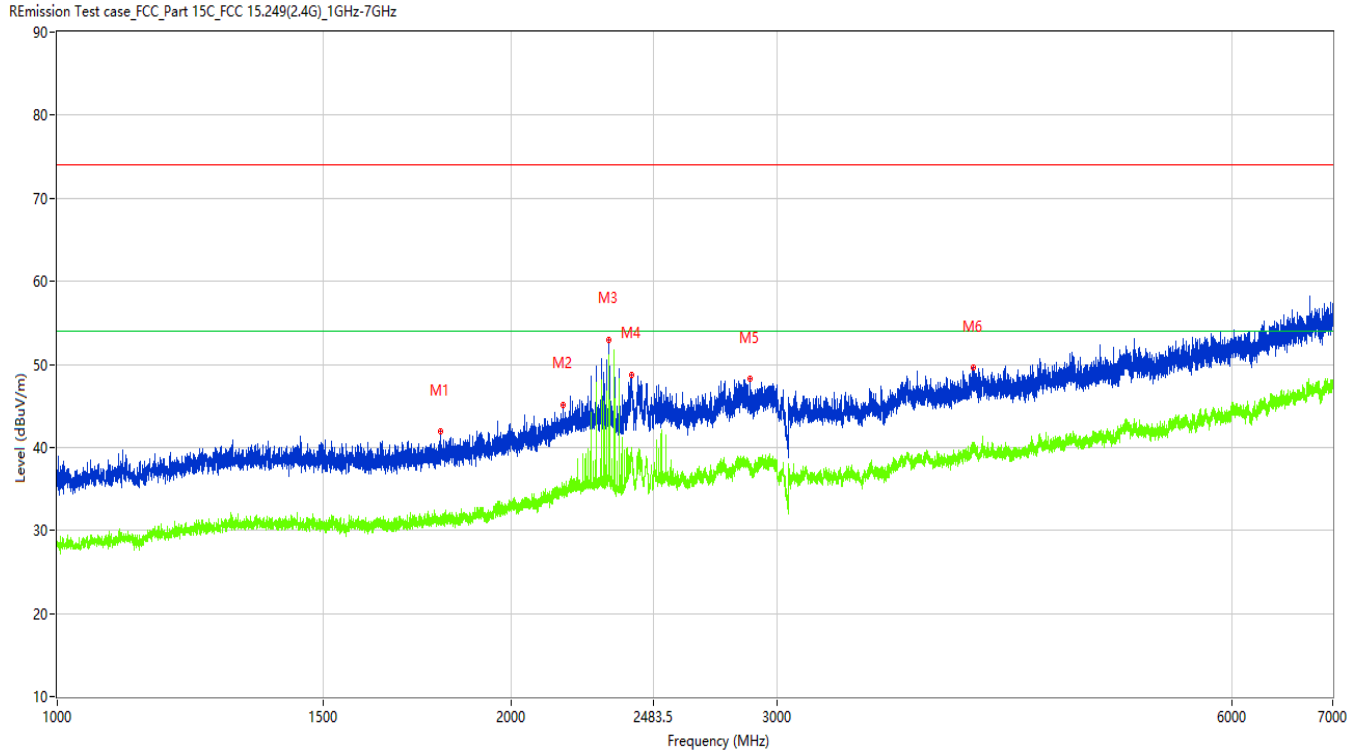
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Figure 10: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1794.000	41.97	-12.46	74.0	32.03	Peak	267.60	100	Vertical	Pass
1**	1794.000	31.52	-12.46	54.0	22.48	AV	267.60	100	Vertical	Pass
2	2163.250	45.17	-8.59	74.0	28.83	Peak	0.00	100	Vertical	Pass
2**	2163.250	34.71	-8.59	54.0	19.29	AV	0.00	100	Vertical	Pass
3	2320.750	53.01	-7.68	74.0	20.99	Peak	131.80	100	Vertical	Pass
3**	2320.750	51.08	-7.68	54.0	2.92	AV	131.80	100	Vertical	Pass
4	2402.250	48.67	-4.45	74.0	25.33	Peak	0.00	100	Vertical	Pass
4**	2402.250	38.83	-4.45	54.0	15.17	AV	0.00	100	Vertical	Pass
5	2877.500	48.28	-3.83	74.0	25.72	Peak	298.50	100	Vertical	Pass
5**	2877.500	36.97	-3.83	54.0	17.03	AV	298.50	100	Vertical	Pass
6	4043.500	49.67	-0.89	74.0	24.33	Peak	55.10	100	Vertical	Pass
6**	4043.500	40.07	-0.89	54.0	13.93	AV	55.10	100	Vertical	Pass

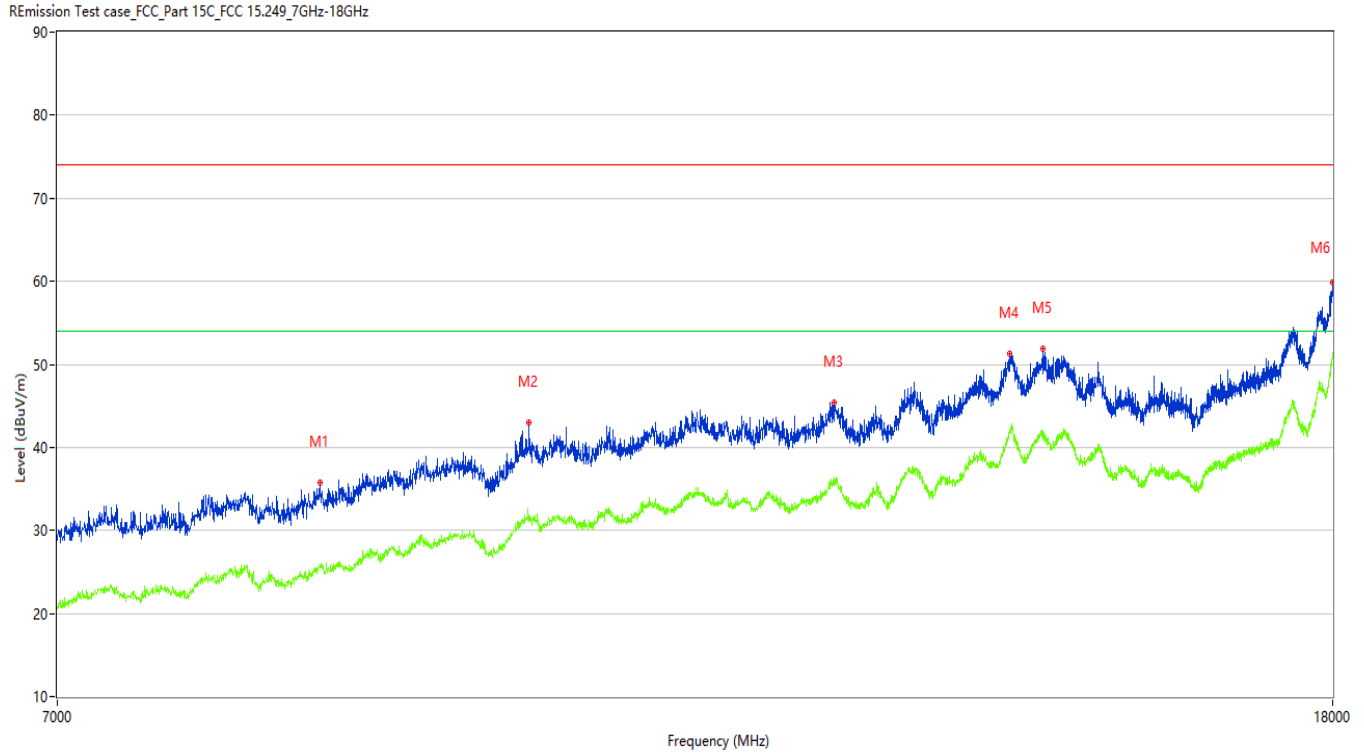
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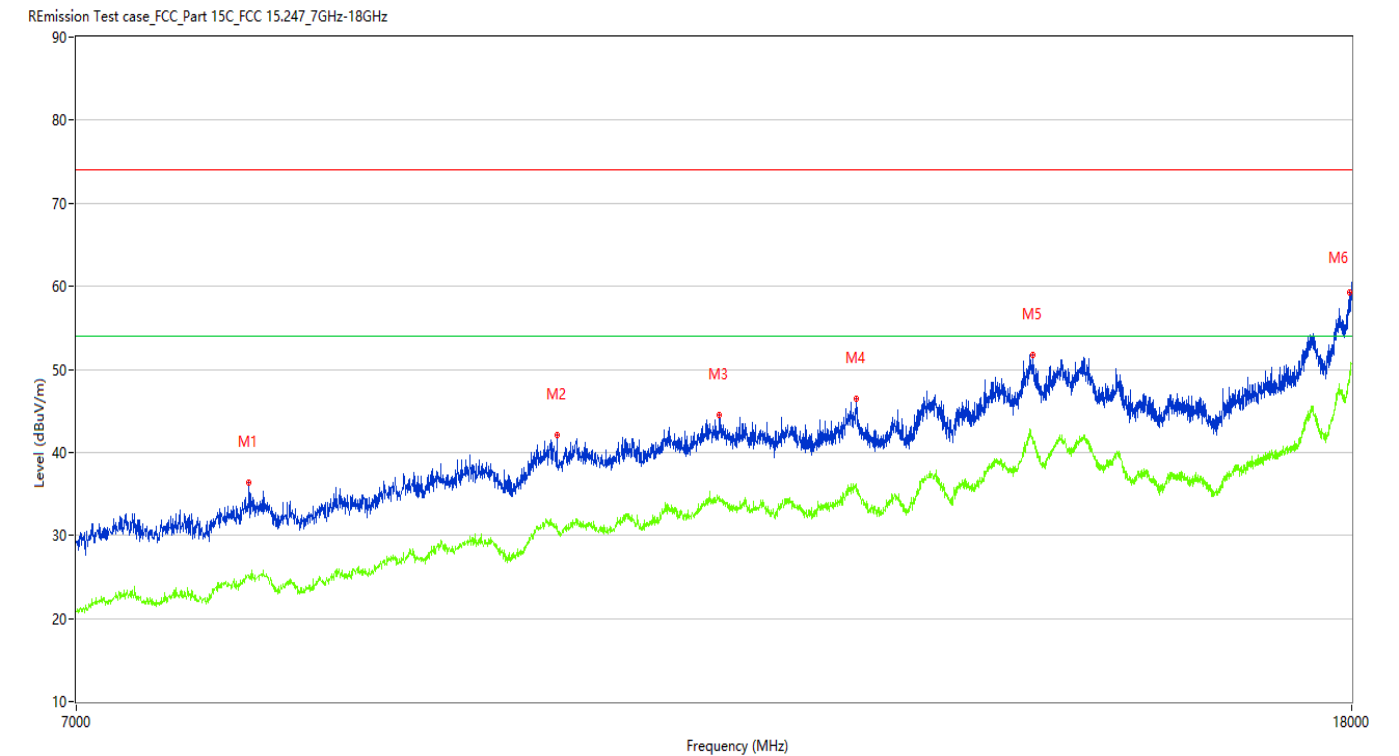
Figure 11: Test plots of Field strength of harmonics, 2403MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8501.500	35.69	3.82	74.0	38.31	Peak	132.50	100	Horizontal	Pass
1**	8501.500	25.47	3.82	54.0	28.53	AV	132.50	100	Horizontal	Pass
2	9928.750	42.92	9.84	74.0	31.08	Peak	66.60	100	Horizontal	Pass
2**	9928.750	31.45	9.84	54.0	22.55	AV	66.60	100	Horizontal	Pass
3	12447.750	45.44	12.49	74.0	28.56	Peak	360.00	100	Horizontal	Pass
3**	12447.750	36.39	12.49	54.0	17.61	AV	360.00	100	Horizontal	Pass
4	14172.000	51.24	19.25	74.0	22.76	Peak	0.00	100	Horizontal	Pass
4**	14172.000	42.05	19.25	54.0	11.95	AV	0.00	100	Horizontal	Pass
5	14526.750	51.87	17.51	74.0	22.13	Peak	296.60	100	Horizontal	Pass
5**	14526.750	41.89	17.51	54.0	12.11	AV	296.60	100	Horizontal	Pass
6	17997.251	59.91	27.75	74.0	14.09	Peak	66.60	100	Horizontal	Pass
6**	17997.251	50.71	27.75	54.0	3.29	AV	66.60	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	36.34	3.41	74.0	37.66	Peak	357.30	100	Vertical	Pass
1**	7954.250	25.11	3.41	54.0	28.89	AV	357.30	100	Vertical	Pass
2	9991.999	42.06	9.29	74.0	31.94	Peak	357.30	100	Vertical	Pass
2**	9991.999	30.76	9.29	54.0	23.24	AV	357.30	100	Vertical	Pass
3	11270.750	44.45	12.16	74.0	29.55	Peak	155.20	100	Vertical	Pass
3**	11270.750	34.78	12.16	54.0	19.22	AV	155.20	100	Vertical	Pass
4	12469.750	46.44	12.47	74.0	27.56	Peak	357.30	100	Vertical	Pass
4**	12469.750	36.24	12.47	54.0	17.76	AV	357.30	100	Vertical	Pass
5	14210.500	51.76	19.26	74.0	22.24	Peak	298.50	100	Vertical	Pass
5**	14210.500	41.78	19.26	54.0	12.22	AV	298.50	100	Vertical	Pass
6	17977.999	59.20	26.56	74.0	14.80	Peak	186.80	100	Vertical	Pass
6**	17977.999	49.06	26.56	54.0	4.94	AV	186.80	100	Vertical	Pass

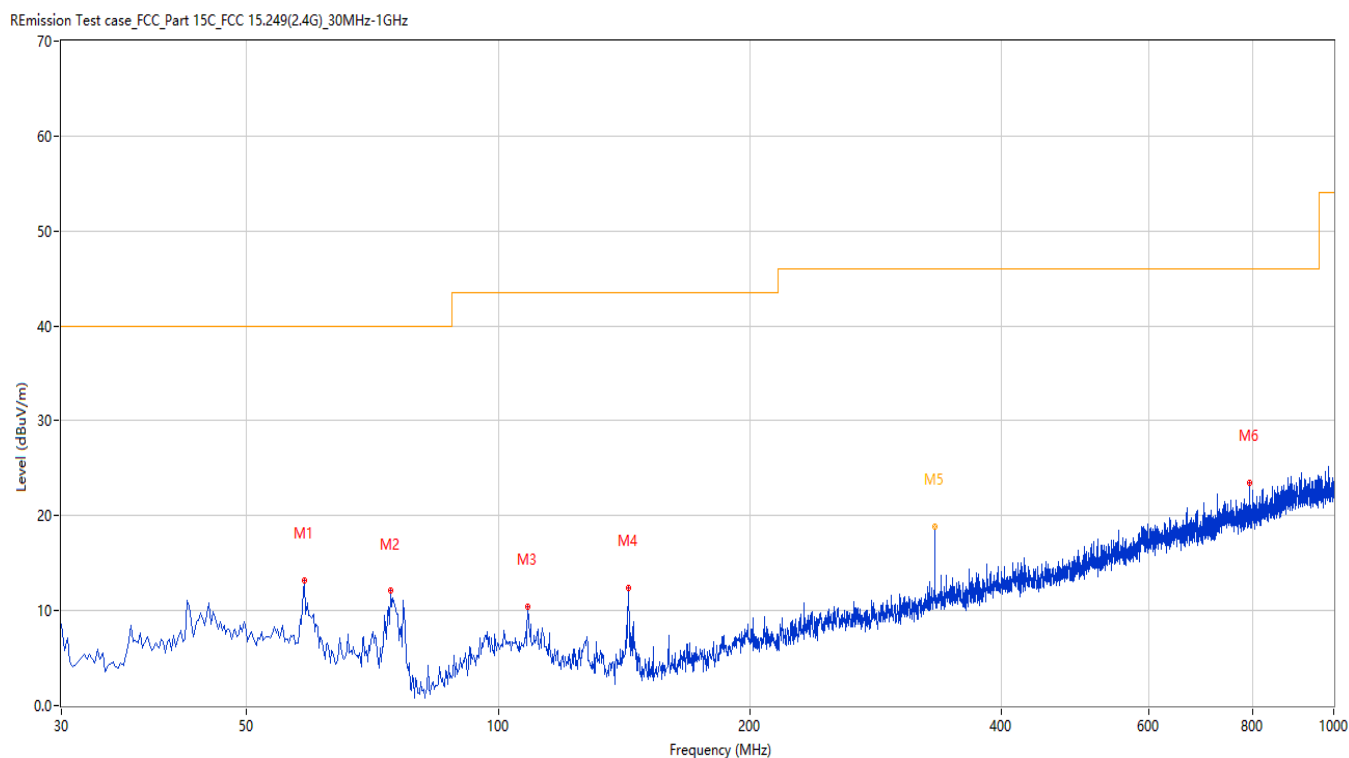
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Figure 13: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	58.608	13.16	-25.97	40.0	26.84	Peak	119.40	100	Horizontal	Pass
2	74.366	12.07	-30.84	40.0	27.93	Peak	360.00	100	Horizontal	Pass
3	108.550	10.41	-26.80	43.5	33.09	Peak	360.00	100	Horizontal	Pass
4	143.219	12.34	-29.98	43.5	31.16	Peak	345.20	100	Horizontal	Pass
5	333.274	21.51	-22.53	46.0	24.49	Peak	323.20	124	Horizontal	Pass
5*	333.274	18.81	-22.53	46.0	27.19	QP	323.20	124	Horizontal	Pass
6	792.472	23.46	-12.31	46.0	22.54	Peak	351.50	100	Horizontal	Pass

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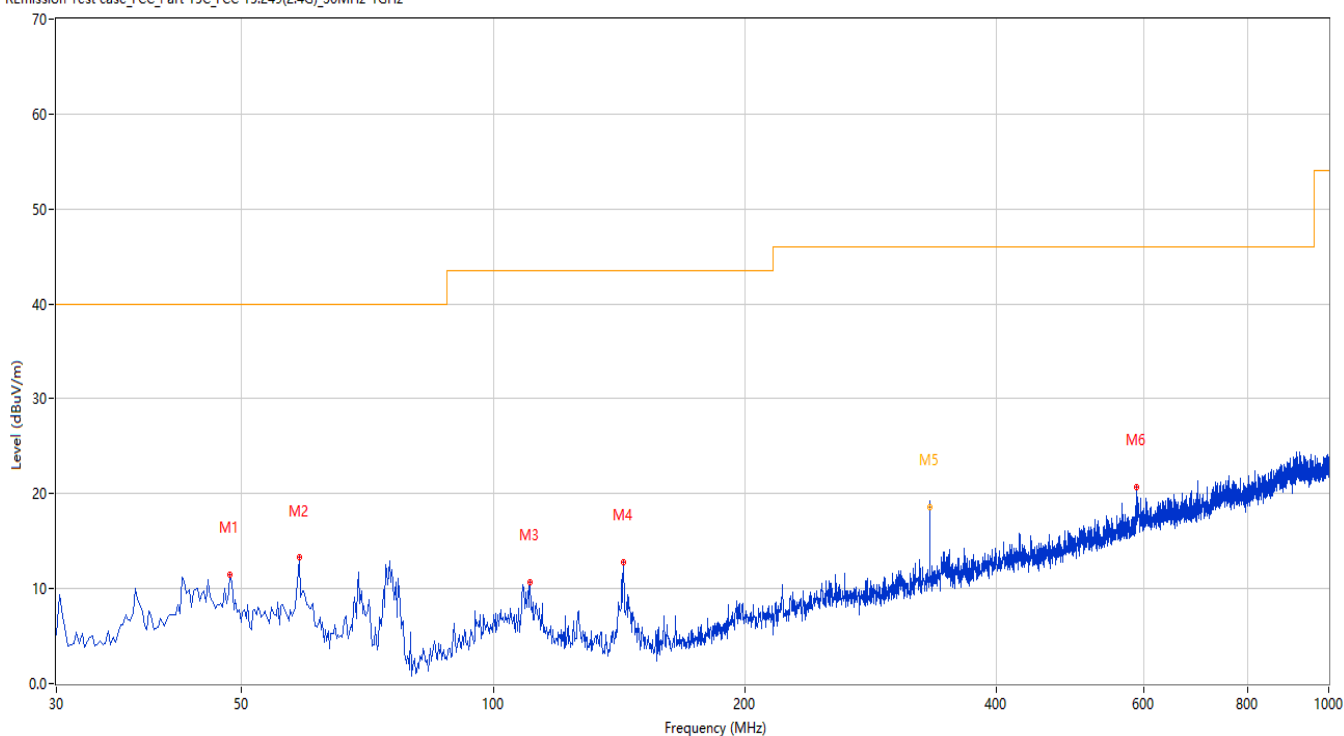
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Figure 14: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Vertical polarization

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.425	11.48	-25.08	40.0	28.52	Peak	359.90	100	Vertical	Pass
2	58.608	13.26	-25.97	40.0	26.74	Peak	164.10	100	Vertical	Pass
3	110.732	10.72	-27.00	43.5	32.78	Peak	61.10	100	Vertical	Pass
4	143.219	12.81	-29.98	43.5	30.69	Peak	348.90	100	Vertical	Pass
5	333.273	21.25	-22.53	46.0	24.75	Peak	318.70	102	Vertical	Pass
5*	333.273	18.64	-22.53	46.0	27.36	QP	318.70	102	Vertical	Pass
6	589.550	20.72	-15.82	46.0	25.28	Peak	141.10	100	Vertical	Pass

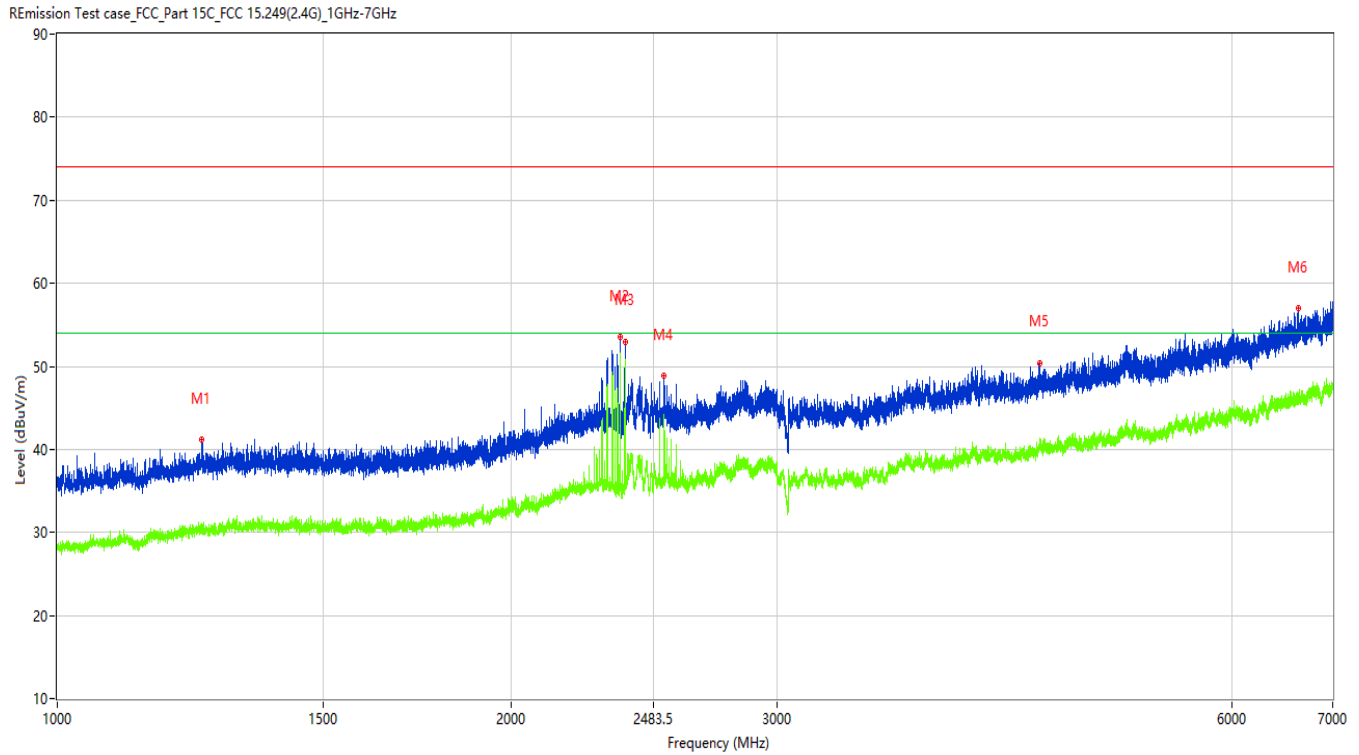
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Figure 15: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1246.500	41.22	-13.20	74.0	32.78	Peak	267.50	100	Horizontal	Pass
1**	1246.500	30.79	-13.20	54.0	23.21	AV	267.50	100	Horizontal	Pass
2	2360.000	53.58	-7.83	74.0	20.42	Peak	40.50	100	Horizontal	Pass
2**	2360.000	51.52	-7.83	54.0	2.48	AV	40.50	100	Horizontal	Pass
3	2378.500	53.00	-7.52	74.0	21.00	Peak	24.50	100	Horizontal	Pass
3**	2378.500	49.54	-7.52	54.0	4.46	AV	24.50	100	Horizontal	Pass
4	2524.750	48.85	-6.82	74.0	25.15	Peak	40.50	100	Horizontal	Pass
4**	2524.750	43.59	-6.82	54.0	10.41	AV	40.50	100	Horizontal	Pass
5	4478.000	50.44	-0.70	74.0	23.56	Peak	90.30	100	Horizontal	Pass
5**	4478.000	41.13	-0.70	54.0	12.87	AV	90.30	100	Horizontal	Pass
6	6642.500	57.02	4.51	74.0	16.98	Peak	360.00	100	Horizontal	Pass
6**	6642.500	46.79	4.51	54.0	7.21	AV	360.00	100	Horizontal	Pass

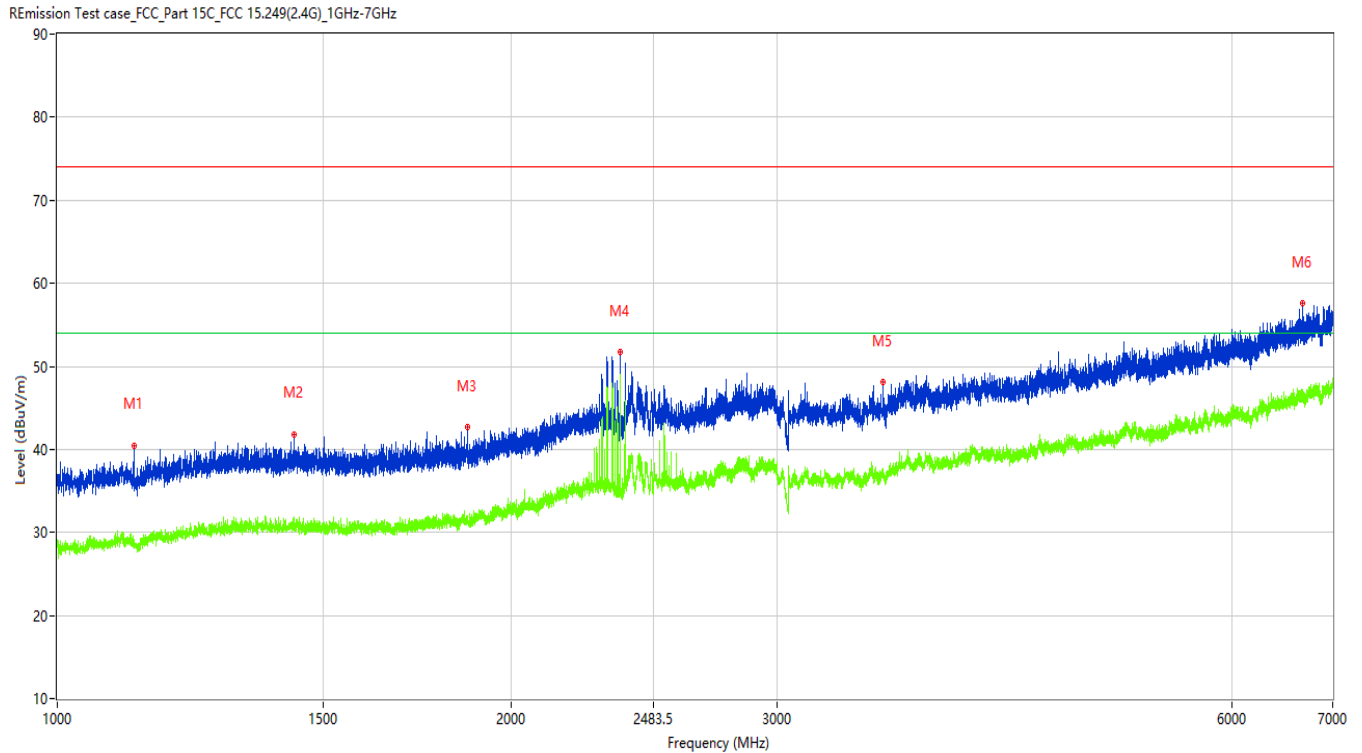
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Figure 16: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1123.750	40.49	-14.19	74.0	33.51	Peak	281.70	100	Vertical	Pass
1**	1123.750	28.16	-14.19	54.0	25.84	AV	281.70	100	Vertical	Pass
2	1435.500	41.86	-12.66	74.0	32.14	Peak	2.40	100	Vertical	Pass
2**	1435.500	30.96	-12.66	54.0	23.04	AV	2.40	100	Vertical	Pass
3	1870.000	42.71	-12.08	74.0	31.29	Peak	281.70	100	Vertical	Pass
3**	1870.000	31.70	-12.08	54.0	22.30	AV	281.70	100	Vertical	Pass
4	2360.000	51.66	-7.83	74.0	22.34	Peak	136.50	100	Vertical	Pass
4**	2360.000	48.98	-7.83	54.0	5.02	AV	136.50	100	Vertical	Pass
5	3523.500	48.06	-3.07	74.0	25.94	Peak	114.20	100	Vertical	Pass
5**	3523.500	37.79	-3.07	54.0	16.21	AV	114.20	100	Vertical	Pass
6	6688.500	57.62	4.49	74.0	16.38	Peak	223.90	100	Vertical	Pass
6**	6688.500	46.54	4.49	54.0	7.46	AV	223.90	100	Vertical	Pass

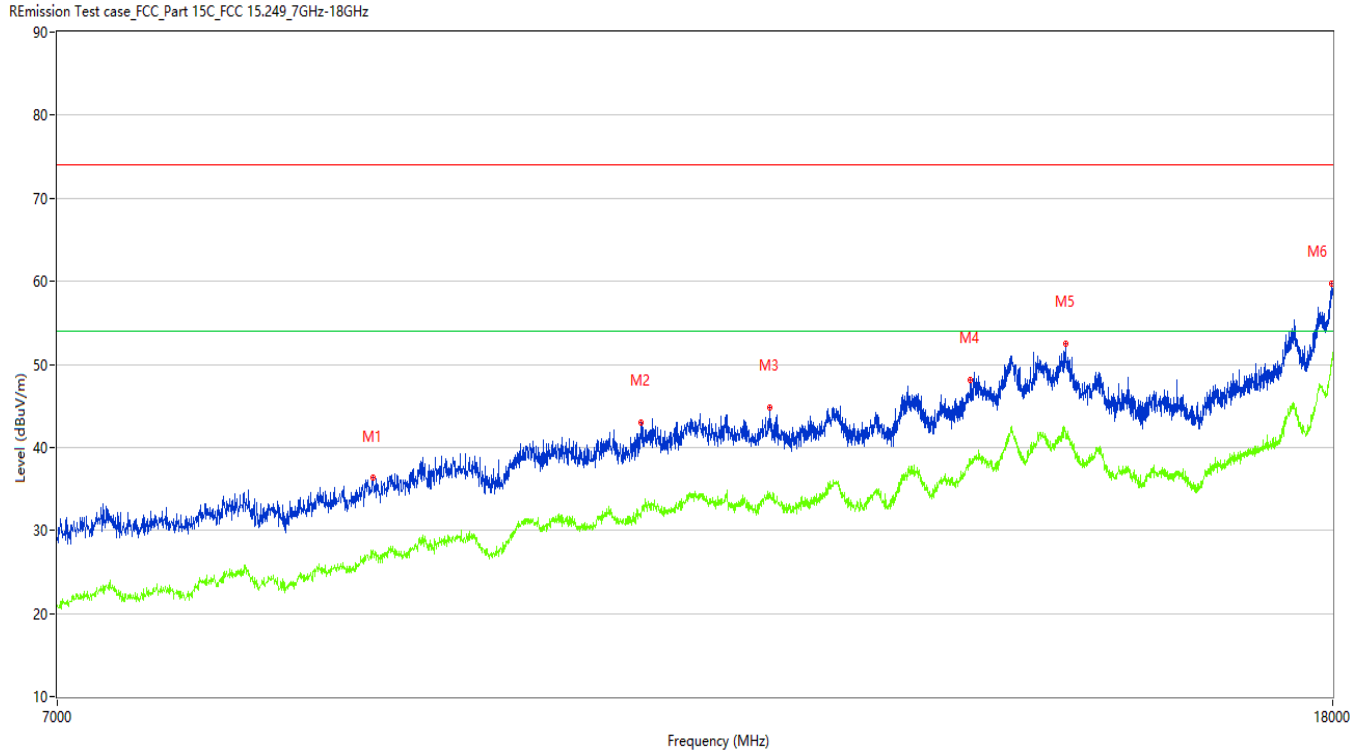
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Figure 17: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8842.500	36.41	5.28	74.0	37.59	Peak	182.40	100	Horizontal	Pass
1**	8842.500	27.56	5.28	54.0	26.44	AV	182.40	100	Horizontal	Pass
2	10781.250	43.06	10.25	74.0	30.94	Peak	135.50	100	Horizontal	Pass
2**	10781.250	31.53	10.25	54.0	22.47	AV	135.50	100	Horizontal	Pass
3	11862.000	44.85	12.04	74.0	29.15	Peak	311.50	100	Horizontal	Pass
3**	11862.000	34.60	12.04	54.0	19.40	AV	311.50	100	Horizontal	Pass
4	13765.000	48.18	15.04	74.0	25.82	Peak	1.10	100	Horizontal	Pass
4**	13765.000	38.29	15.04	54.0	15.71	AV	1.10	100	Horizontal	Pass
5	14774.250	52.54	18.71	74.0	21.46	Peak	118.00	100	Horizontal	Pass
5**	14774.250	41.77	18.71	54.0	12.23	AV	118.00	100	Horizontal	Pass
6	17980.750	59.66	26.73	74.0	14.34	Peak	360.00	100	Horizontal	Pass
6**	17980.750	49.97	26.73	54.0	4.03	AV	360.00	100	Horizontal	Pass

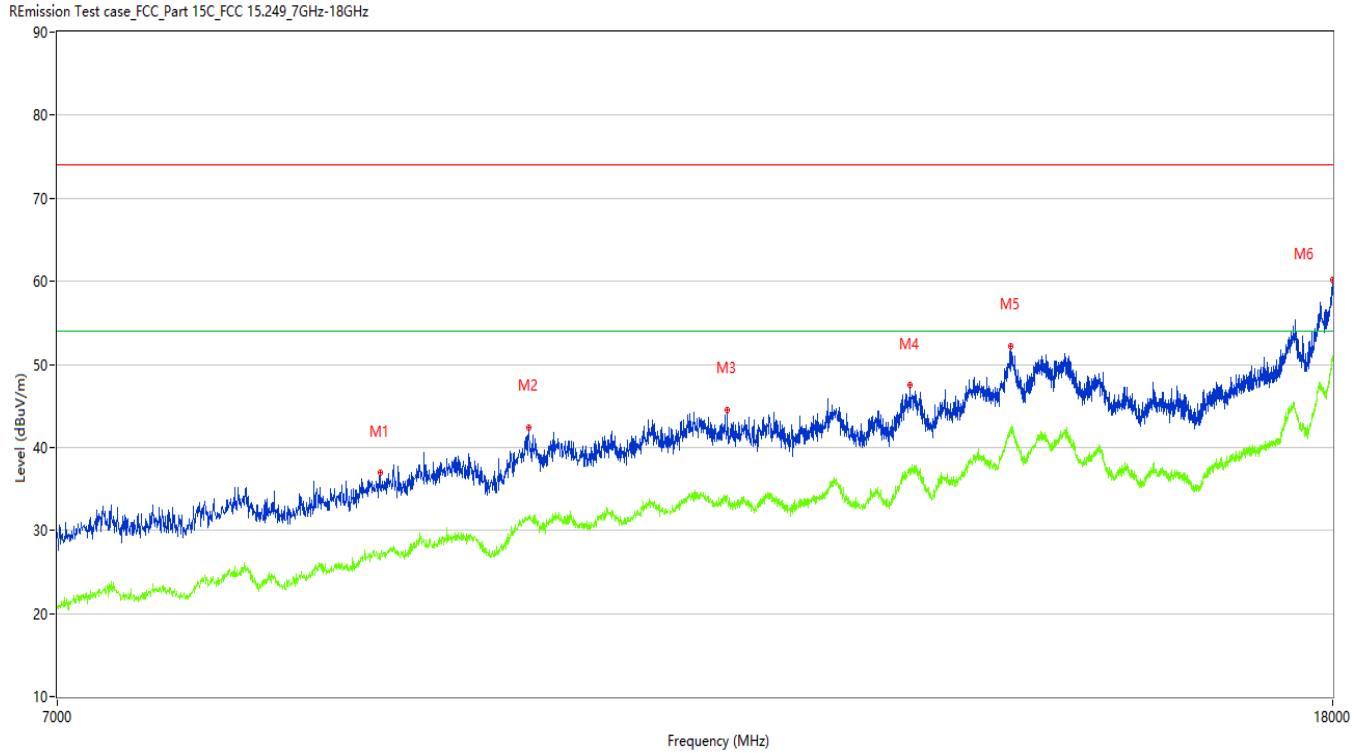
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Figure 18: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8889.250	36.94	5.43	74.0	37.06	Peak	0.00	100	Vertical	Pass
1**	8889.250	27.13	5.43	54.0	26.87	AV	0.00	100	Vertical	Pass
2	9923.250	42.34	9.88	74.0	31.66	Peak	228.90	100	Vertical	Pass
2**	9923.250	31.67	9.88	54.0	22.33	AV	228.90	100	Vertical	Pass
3	11499.000	44.55	11.93	74.0	29.45	Peak	45.10	100	Vertical	Pass
3**	11499.000	34.10	11.93	54.0	19.90	AV	45.10	100	Vertical	Pass
4	13159.999	47.48	13.99	74.0	26.52	Peak	308.10	100	Vertical	Pass
4**	13159.999	36.65	13.99	54.0	17.35	AV	308.10	100	Vertical	Pass
5	14180.250	52.25	19.52	74.0	21.75	Peak	244.50	100	Vertical	Pass
5**	14180.250	42.19	19.52	54.0	11.81	AV	244.50	100	Vertical	Pass
6	17994.500	60.13	27.58	74.0	13.87	Peak	244.50	100	Vertical	Pass
6**	17994.500	50.50	27.58	54.0	3.50	AV	244.50	100	Vertical	Pass

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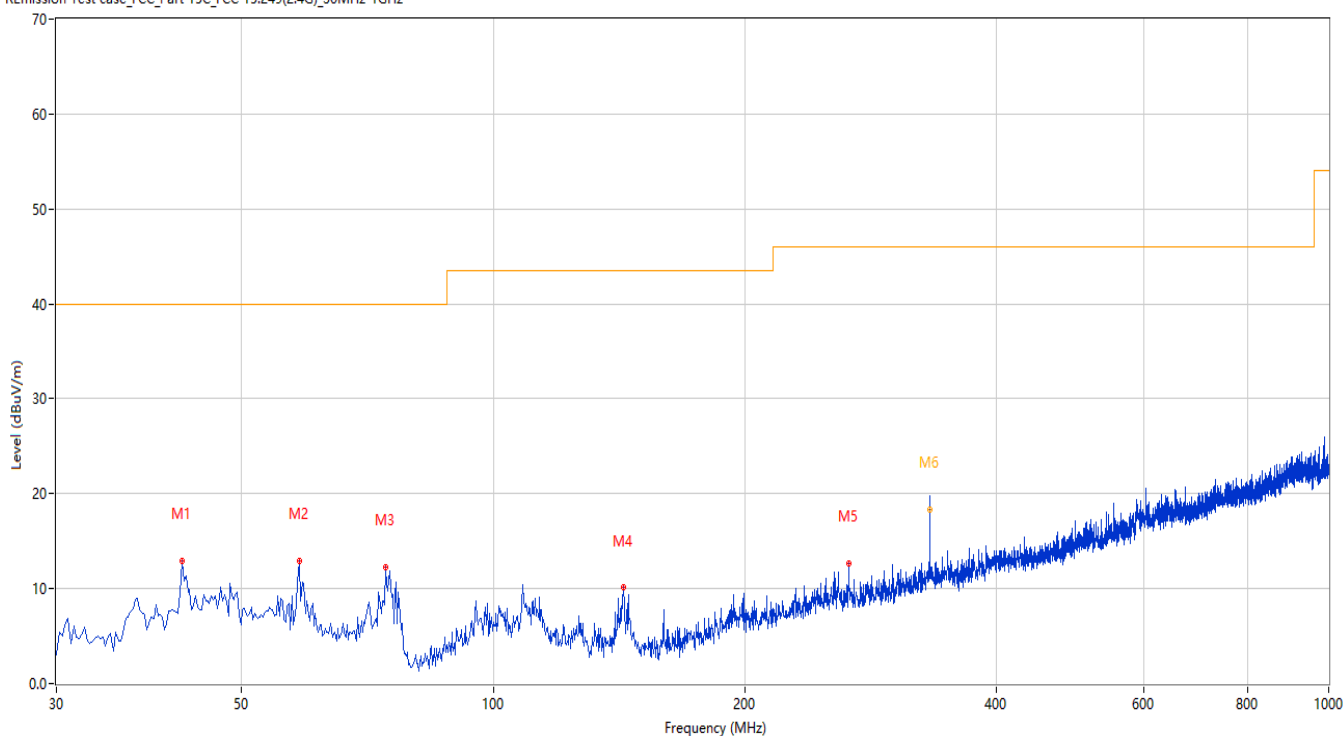
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Figure 19: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Horizontal polarization

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No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.364	12.96	-25.63	40.0	27.04	Peak	166.70	100	Horizontal	Pass
2	58.608	12.96	-25.97	40.0	27.04	Peak	284.30	100	Horizontal	Pass
3	74.366	12.25	-30.84	40.0	27.75	Peak	5.60	100	Horizontal	Pass
4	143.219	10.09	-29.98	43.5	33.41	Peak	303.30	100	Horizontal	Pass
5	266.378	12.63	-24.47	46.0	33.37	Peak	0.70	100	Horizontal	Pass
6	333.272	21.15	-22.53	46.0	24.85	Peak	120.20	148	Horizontal	Pass
6*	333.272	18.31	-22.53	46.0	27.69	QP	120.20	148	Horizontal	Pass

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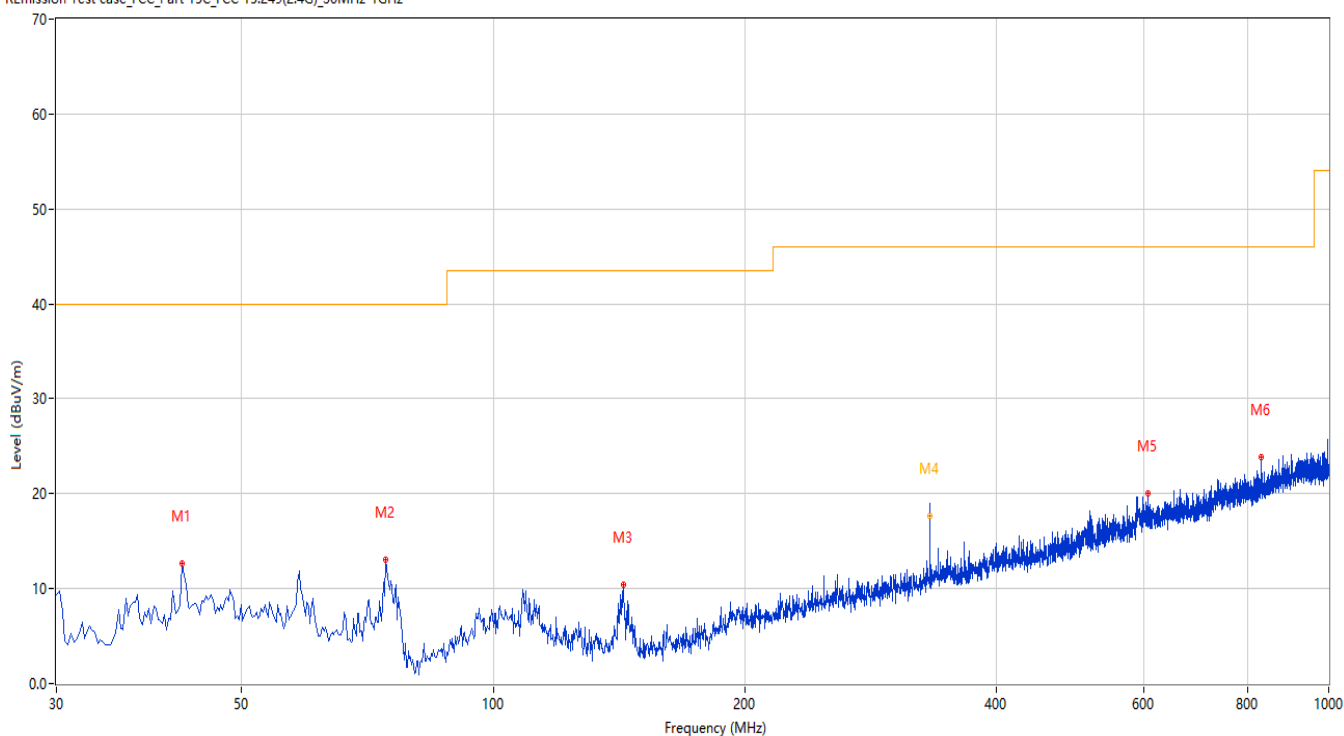
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Figure 20: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Vertical polarization

REmission Test case_FCC_Part 15C_FCC 15.249(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.364	12.64	-25.63	40.0	27.36	Peak	20.40	100	Vertical	Pass
2	74.366	13.09	-30.84	40.0	26.91	Peak	103.00	100	Vertical	Pass
3	143.219	10.44	-29.98	43.5	33.06	Peak	98.20	100	Vertical	Pass
4	333.278	20.45	-22.53	46.0	25.55	Peak	217.20	151	Vertical	Pass
4*	333.278	17.71	-22.53	46.0	28.29	QP	217.20	151	Vertical	Pass
5	607.733	20.02	-15.39	46.0	25.98	Peak	135.70	100	Vertical	Pass
6	830.535	23.81	-11.62	46.0	22.19	Peak	258.50	100	Vertical	Pass

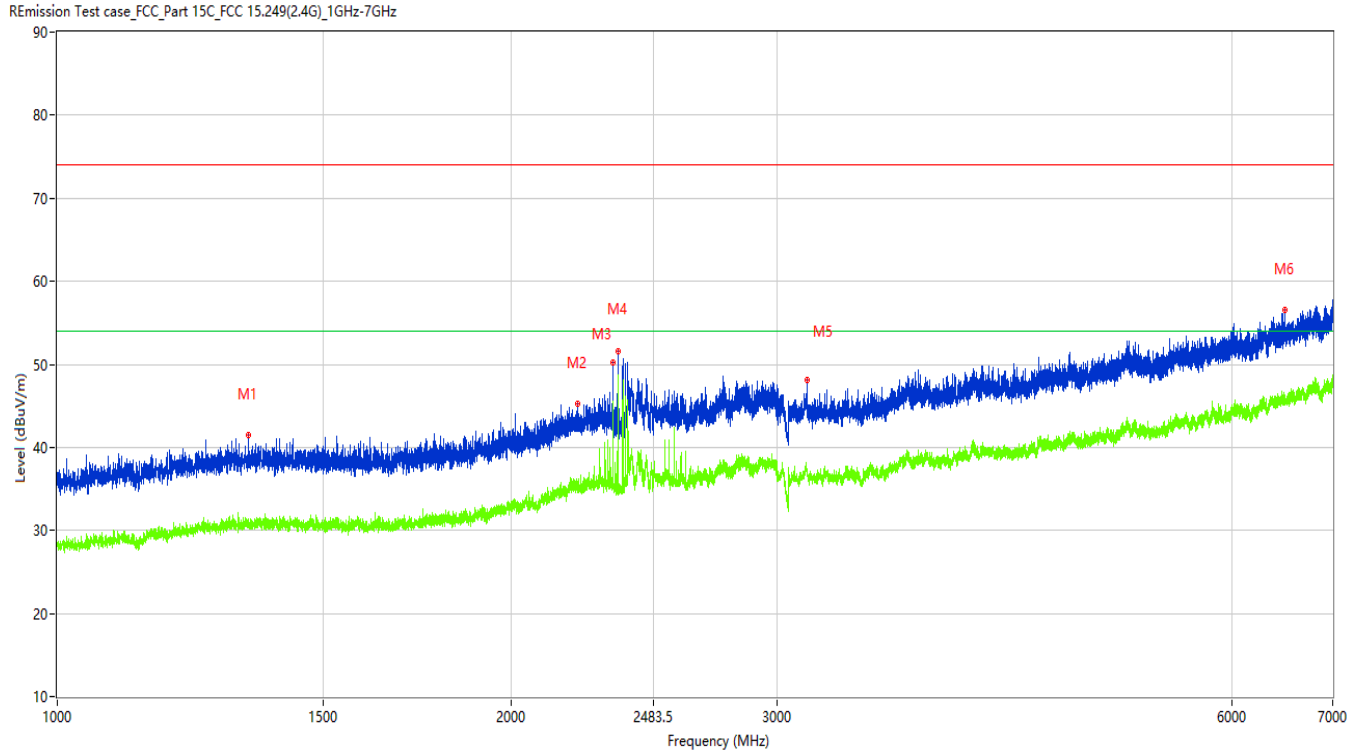
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Figure 21: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1338.000	41.48	-12.81	74.0	32.52	Peak	186.80	100	Horizontal	Pass
1**	1338.000	30.68	-12.81	54.0	23.32	AV	186.80	100	Horizontal	Pass
2	2213.000	45.19	-8.14	74.0	28.81	Peak	154.40	100	Horizontal	Pass
2**	2213.000	35.09	-8.14	54.0	18.91	AV	154.40	100	Horizontal	Pass
3	2334.000	50.15	-8.08	74.0	23.85	Peak	42.10	100	Horizontal	Pass
3**	2334.000	45.42	-8.08	54.0	8.58	AV	42.10	100	Horizontal	Pass
4	2352.000	51.65	-8.02	74.0	22.35	Peak	42.10	100	Horizontal	Pass
4**	2352.000	48.75	-8.02	54.0	5.25	AV	42.10	100	Horizontal	Pass
5	3137.500	48.15	-4.87	74.0	25.85	Peak	181.90	100	Horizontal	Pass
5**	3137.500	36.97	-4.87	54.0	17.03	AV	181.90	100	Horizontal	Pass
6	6510.500	56.51	3.99	74.0	17.49	Peak	225.00	100	Horizontal	Pass
6**	6510.500	45.62	3.99	54.0	8.38	AV	225.00	100	Horizontal	Pass

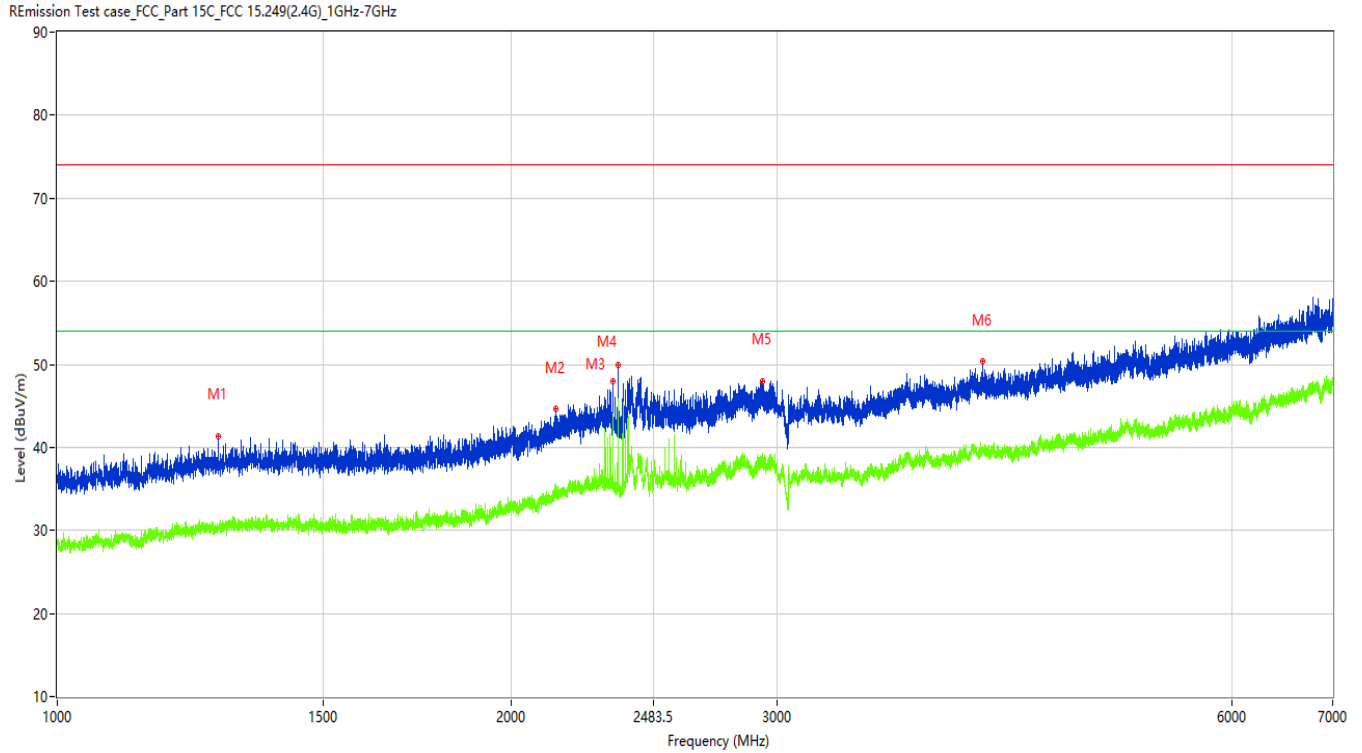
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Figure 22: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1278.500	41.41	-12.90	74.0	32.59	Peak	110.20	100	Vertical	Pass
1**	1278.500	29.99	-12.90	54.0	24.01	AV	110.20	100	Vertical	Pass
2	2138.500	44.68	-9.06	74.0	29.32	Peak	360.00	100	Vertical	Pass
2**	2138.500	35.53	-9.06	54.0	18.47	AV	360.00	100	Vertical	Pass
3	2333.750	47.92	-8.08	74.0	26.08	Peak	124.40	100	Vertical	Pass
3**	2333.750	43.72	-8.08	54.0	10.28	AV	124.40	100	Vertical	Pass
4	2352.500	49.97	-8.01	74.0	24.03	Peak	124.40	100	Vertical	Pass
4**	2352.500	45.83	-8.01	54.0	8.17	AV	124.40	100	Vertical	Pass
5	2933.000	47.97	-4.22	74.0	26.03	Peak	110.20	100	Vertical	Pass
5**	2933.000	38.58	-4.22	54.0	15.42	AV	110.20	100	Vertical	Pass
6	4102.500	50.34	-0.90	74.0	23.66	Peak	359.50	100	Vertical	Pass
6**	4102.500	40.01	-0.90	54.0	13.99	AV	359.50	100	Vertical	Pass

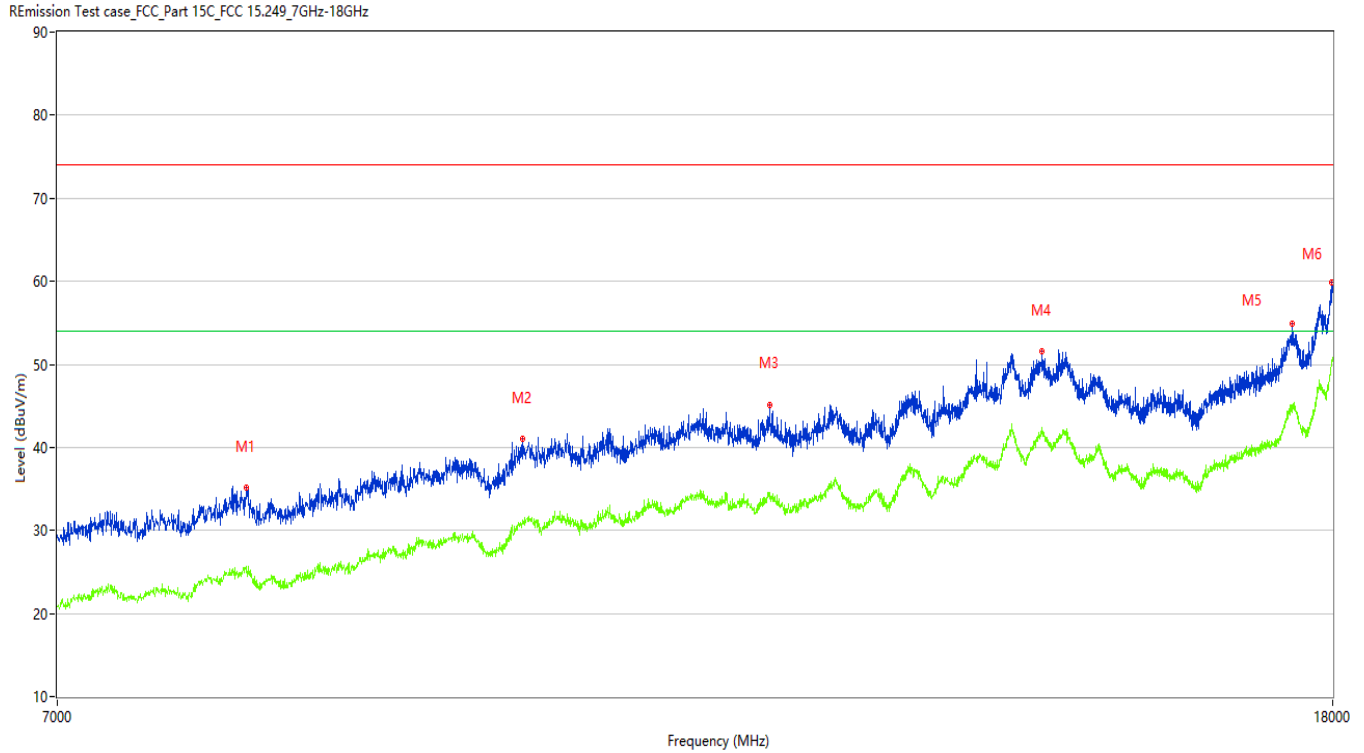
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Figure 23: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8050.500	35.21	4.49	74.0	38.79	Peak	270.20	100	Horizontal	Pass
1**	8050.500	25.61	4.49	54.0	28.39	AV	270.20	100	Horizontal	Pass
2	9879.250	40.96	9.36	74.0	33.04	Peak	82.30	100	Horizontal	Pass
2**	9879.250	31.24	9.36	54.0	22.76	AV	82.30	100	Horizontal	Pass
3	11862.000	45.17	12.04	74.0	28.83	Peak	0.00	100	Horizontal	Pass
3**	11862.000	34.54	12.04	54.0	19.46	AV	0.00	100	Horizontal	Pass
4	14515.750	51.58	17.59	74.0	22.42	Peak	360.00	100	Horizontal	Pass
4**	14515.750	41.99	17.59	54.0	12.01	AV	360.00	100	Horizontal	Pass
5	17472.000	54.92	21.29	74.0	19.08	Peak	270.20	100	Horizontal	Pass
5**	17472.000	45.04	21.29	54.0	8.96	AV	270.20	100	Horizontal	Pass
6	17986.251	59.87	27.07	74.0	14.13	Peak	144.40	100	Horizontal	Pass
6**	17986.251	50.30	27.07	54.0	3.70	AV	144.40	100	Horizontal	Pass

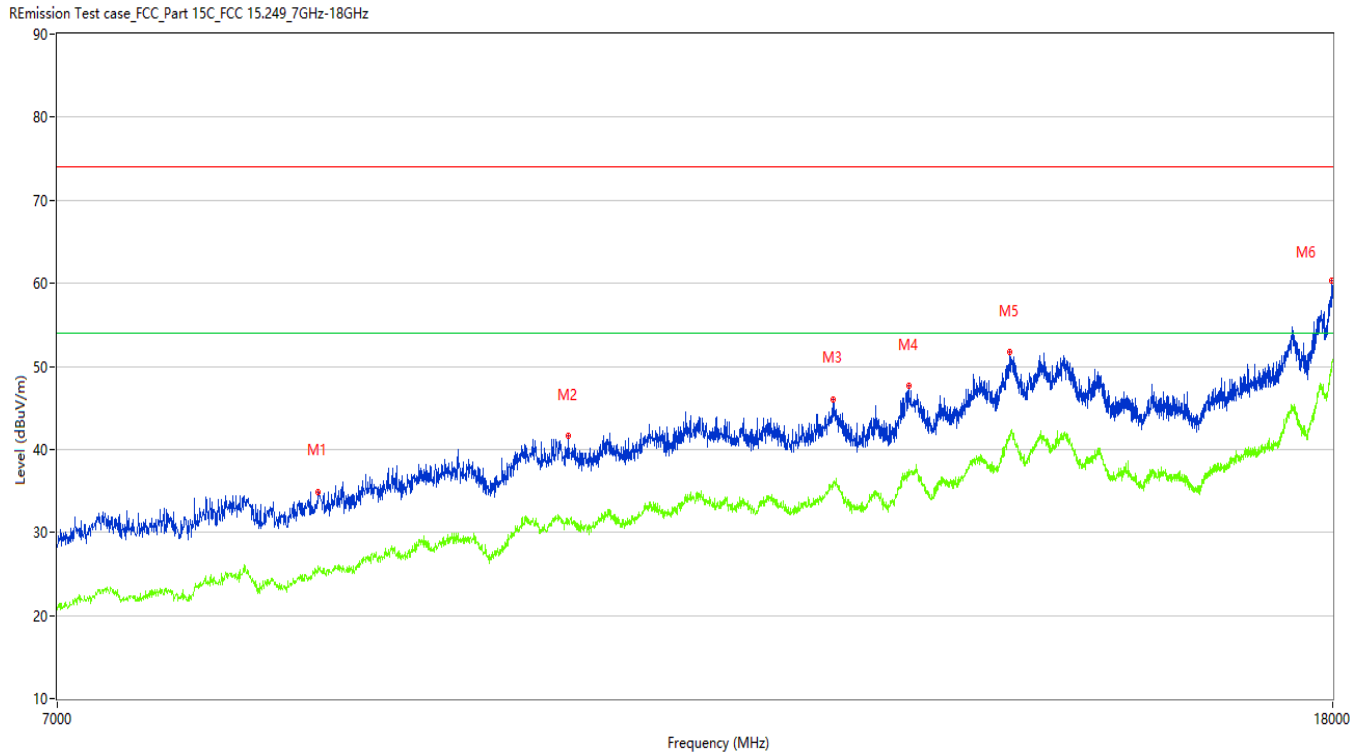
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Figure 24: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8493.250	34.93	3.81	74.0	39.07	Peak	15.60	100	Vertical	Pass
1**	8493.250	25.95	3.81	54.0	28.05	AV	15.60	100	Vertical	Pass
2	10223.000	41.64	9.17	74.0	32.36	Peak	15.60	100	Vertical	Pass
2**	10223.000	31.39	9.17	54.0	22.61	AV	15.60	100	Vertical	Pass
3	12436.750	46.06	12.44	74.0	27.94	Peak	311.50	100	Vertical	Pass
3**	12436.750	35.93	12.44	54.0	18.07	AV	311.50	100	Vertical	Pass
4	13149.000	47.72	13.97	74.0	26.28	Peak	128.40	100	Vertical	Pass
4**	13149.000	37.34	13.97	54.0	16.66	AV	128.40	100	Vertical	Pass
5	14174.750	51.68	19.34	74.0	22.32	Peak	128.40	100	Vertical	Pass
5**	14174.750	41.80	19.34	54.0	12.20	AV	128.40	100	Vertical	Pass
6	17991.750	60.28	27.41	74.0	13.72	Peak	128.40	100	Vertical	Pass
6**	17991.750	50.16	27.41	54.0	3.84	AV	128.40	100	Vertical	Pass

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4.1.3 Band Edge

RESULT:

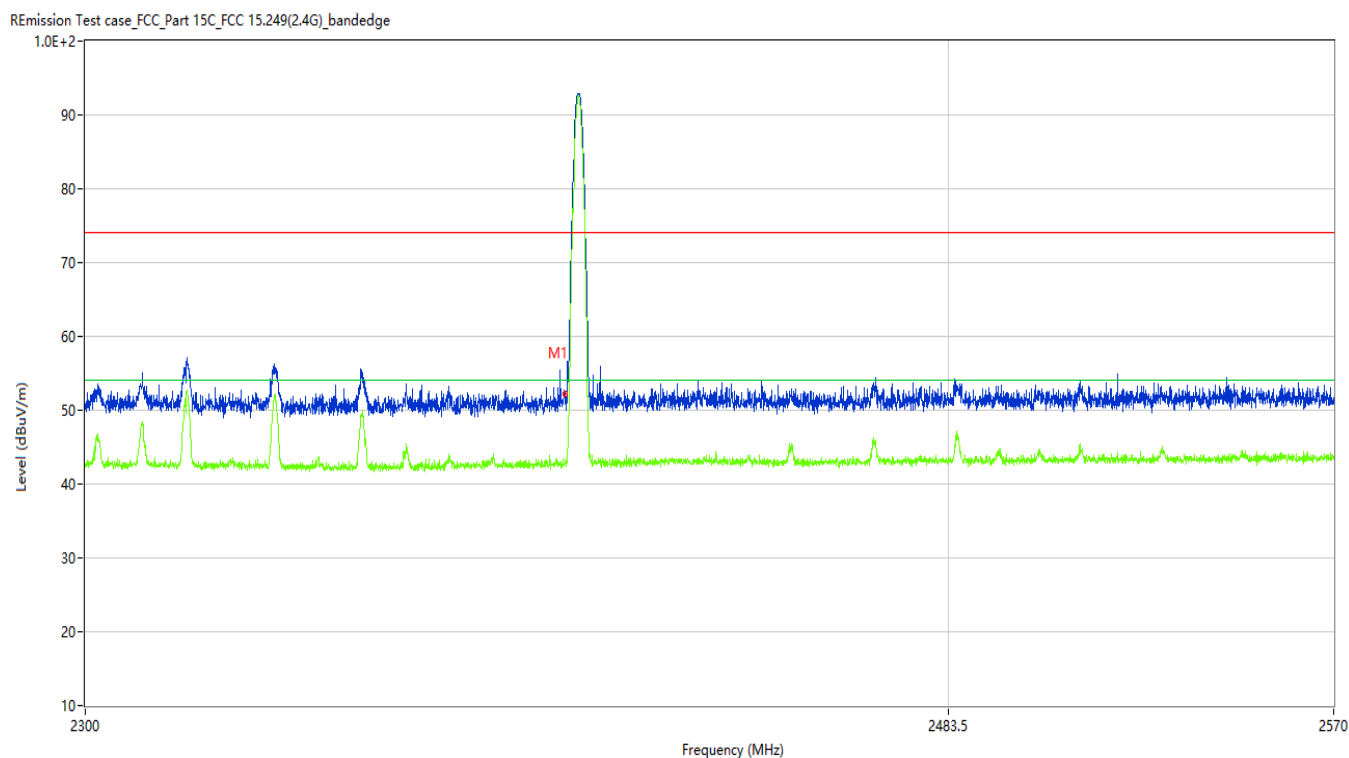
PASS

Test standard : FCC Part 15.249(d), 15.209
RSS-210 B.10(b), RSS-GEN 8.10
Requirement : ANSI C63.10-2013
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/High
Operation Mode : A.i/iii
Ambient temperature : 23.4°C
Relative humidity : 50%

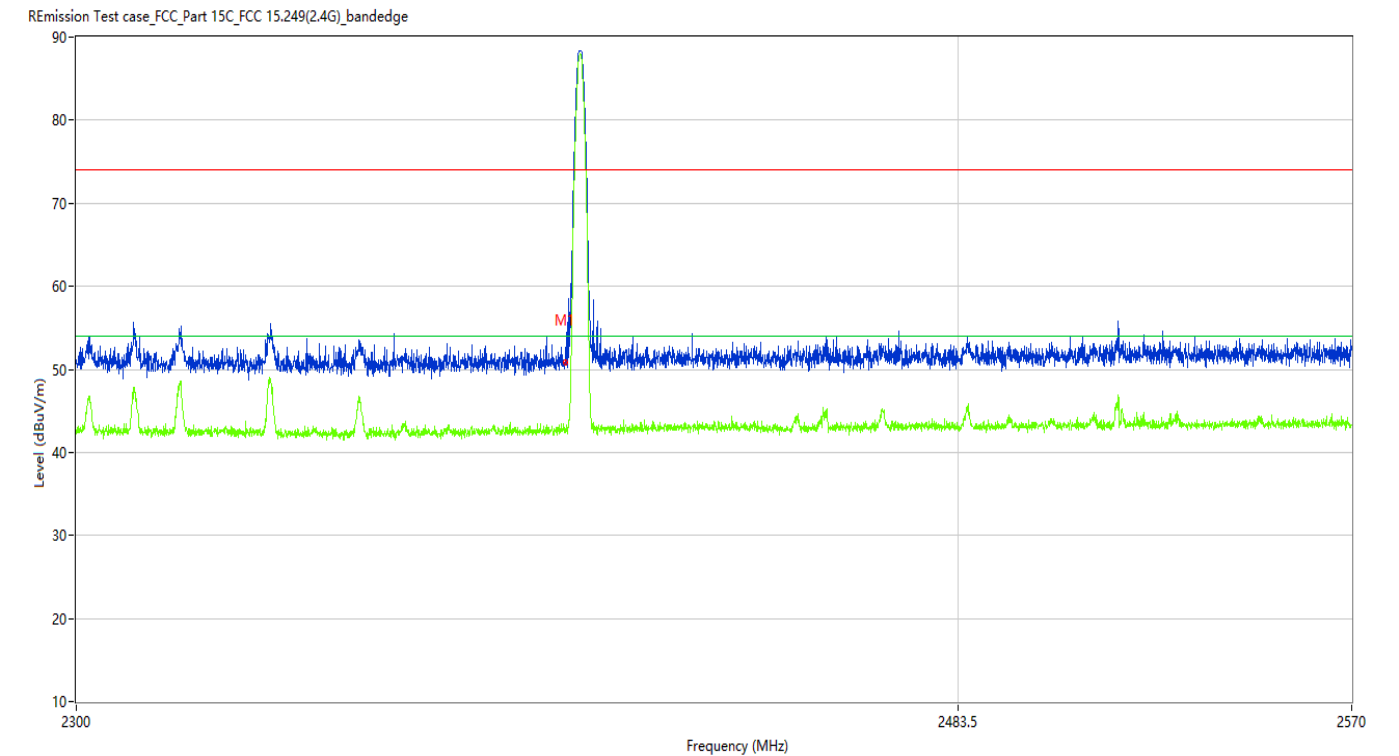
Figure 25: Test plots of Band Edge, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	51.42	-9.87	74.0	22.58	Peak	280.30	100	Horizontal	Pass
1**	2400.000	42.66	-9.87	54.0	11.34	AV	280.30	100	Horizontal	Pass

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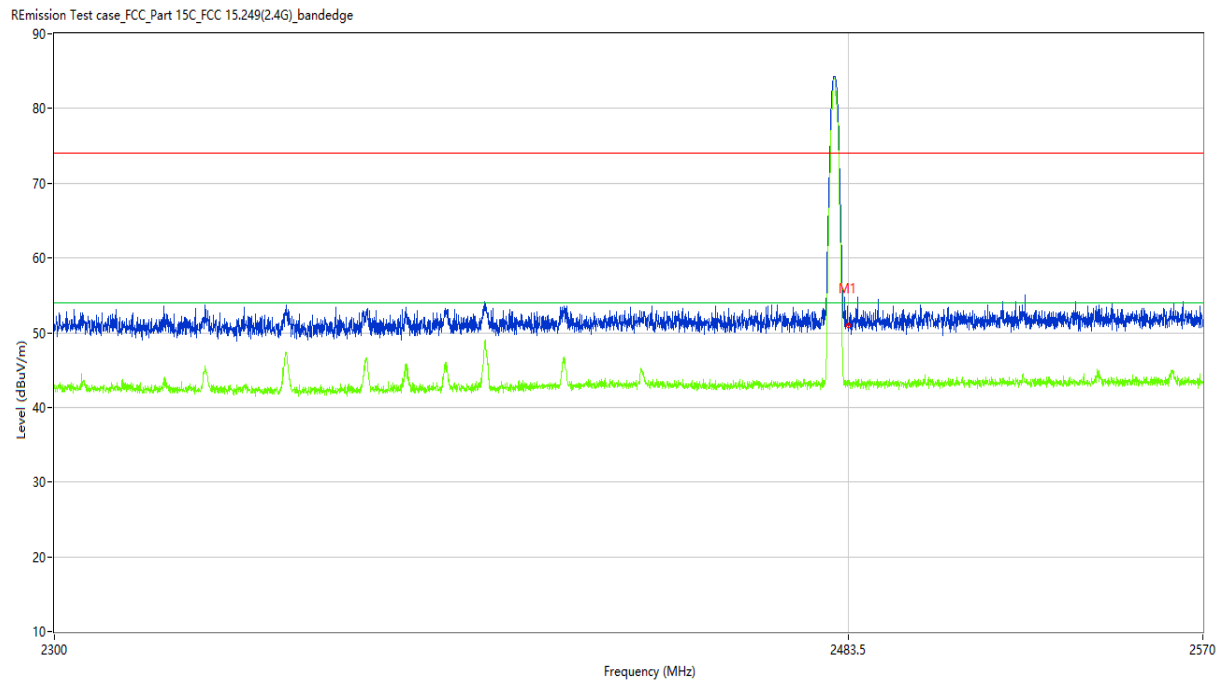
Figure 26: Test plots of Band Edge, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	50.89	-9.87	74.0	23.11	Peak	187.96	100	Vertical	Pass
1**	2400.000	42.64	-9.87	54.0	11.36	AV	187.96	100	Vertical	Pass

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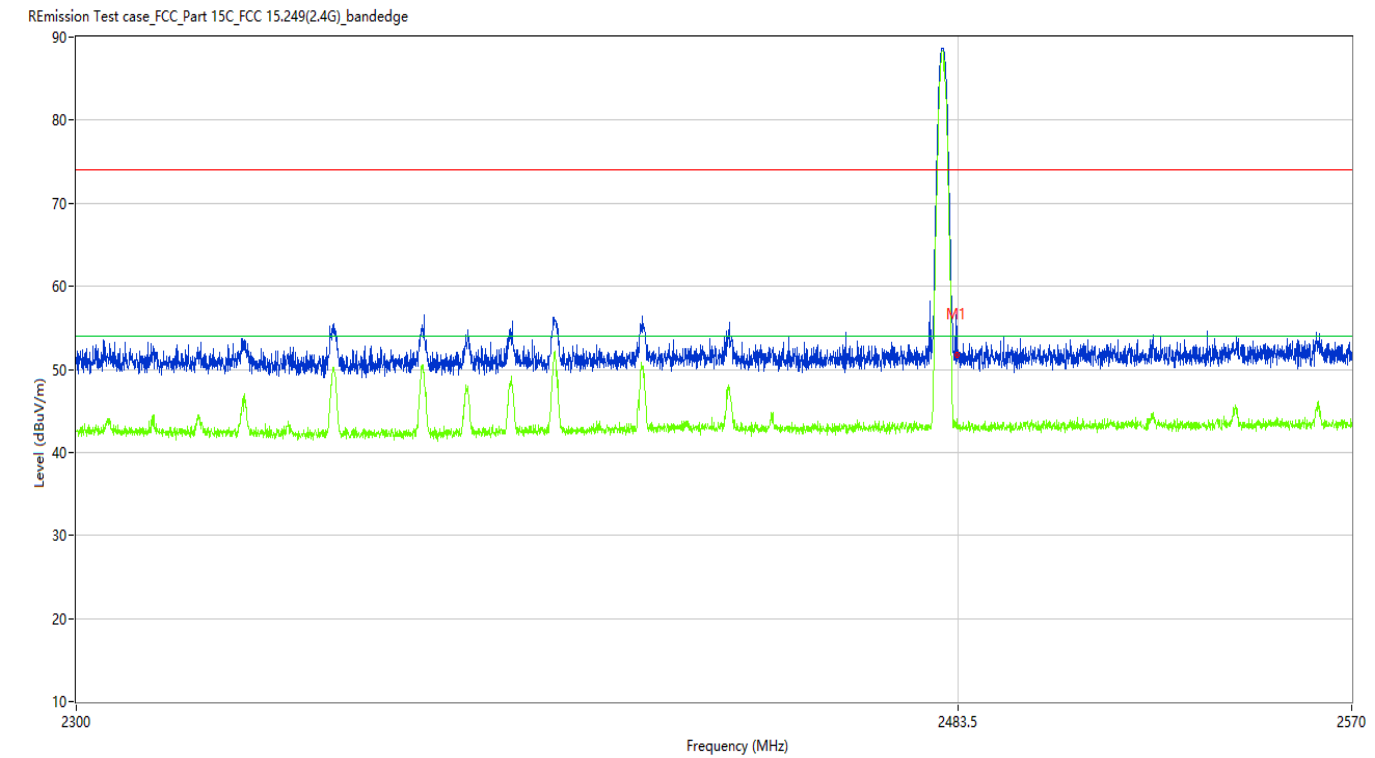
Figure 27: Test plots of Band Edge, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	50.92	-9.51	74.0	23.08	Peak	118.19	100	Horizontal	Pass
1**	2483.500	43.36	-9.51	54.0	10.64	AV	118.19	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	51.74	-9.51	74.0	22.26	Peak	244.30	100	Vertical	Pass
1**	2483.500	43.11	-9.51	54.0	10.89	AV	244.30	100	Vertical	Pass

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4.1.4 20dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.215(c), RSS-GEN 6.7

Requirement : ANSI C63.10-2013

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.i/ii/iii

Ambient temperature : 22.8°C

Relative humidity : 50%

Table 1: 20dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
GFSK	2403	1.020	0.922
	2442	1.017	0.957
	2480	1.024	0.949

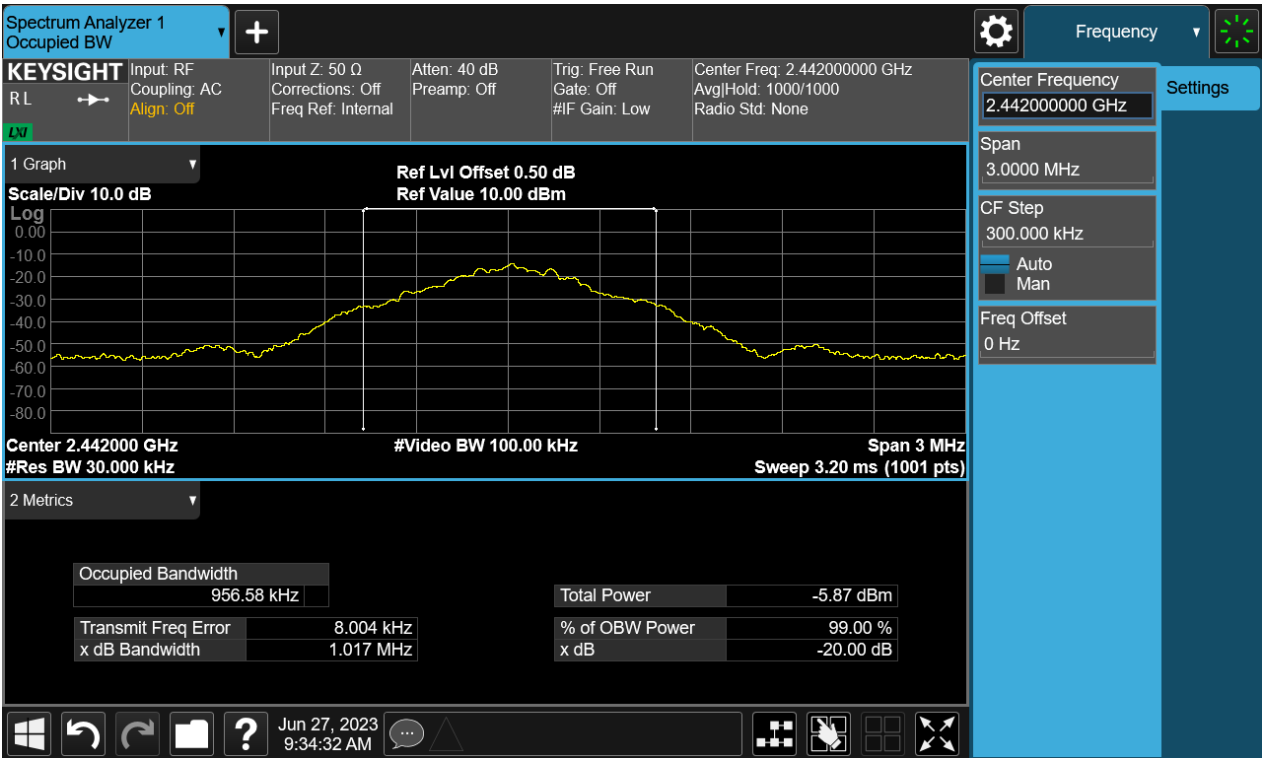
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Figure 29: The plots of 20dB Bandwidth and 99% Bandwidth, 2403MHz



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



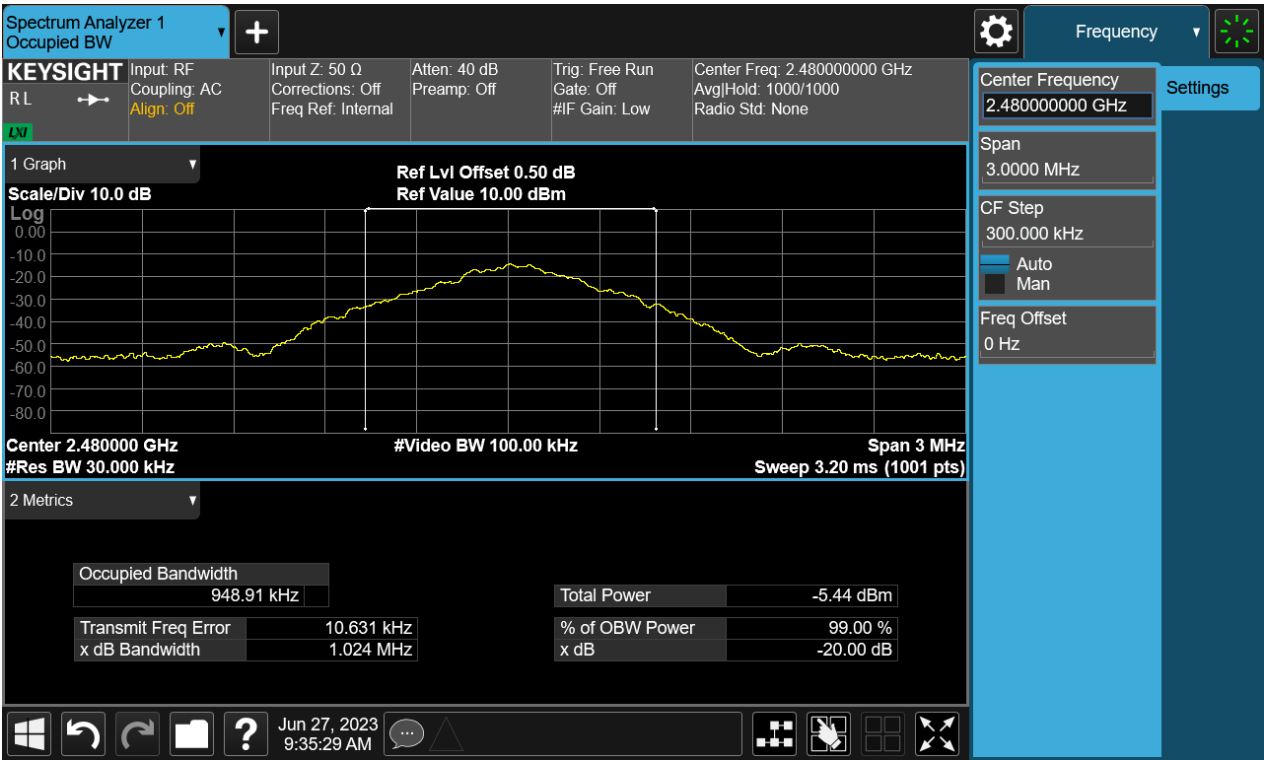
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Figure 31: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz



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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Back of the sample

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Left of the sample



Right of the sample

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Top of the sample



Bottom of the sample

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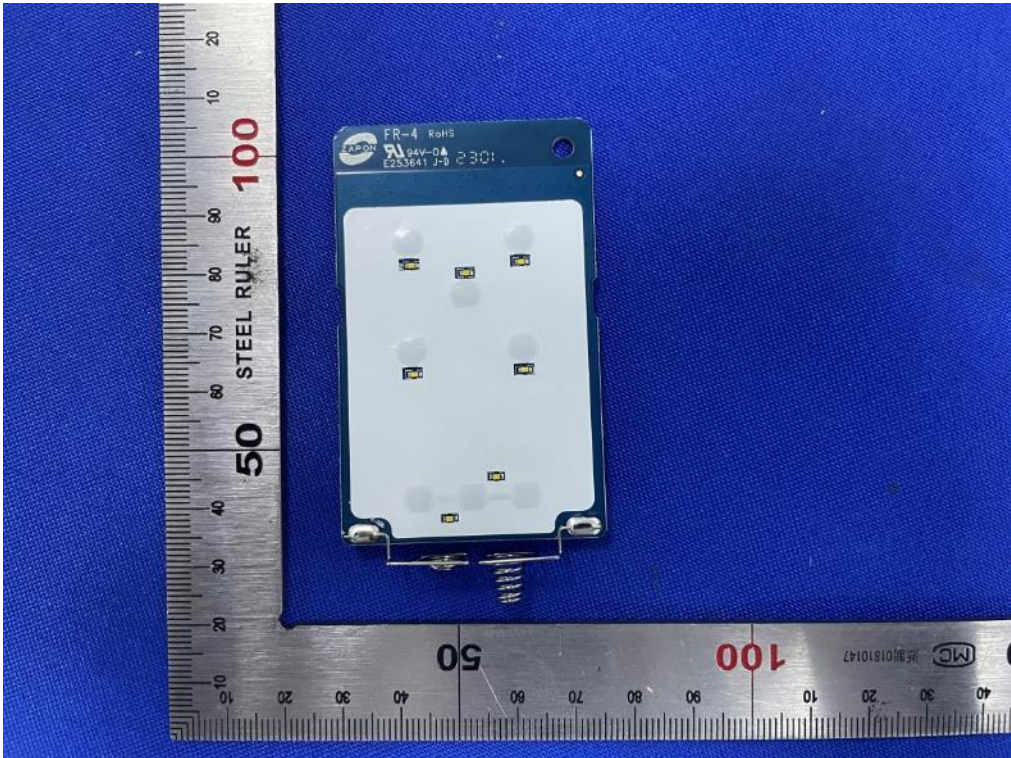
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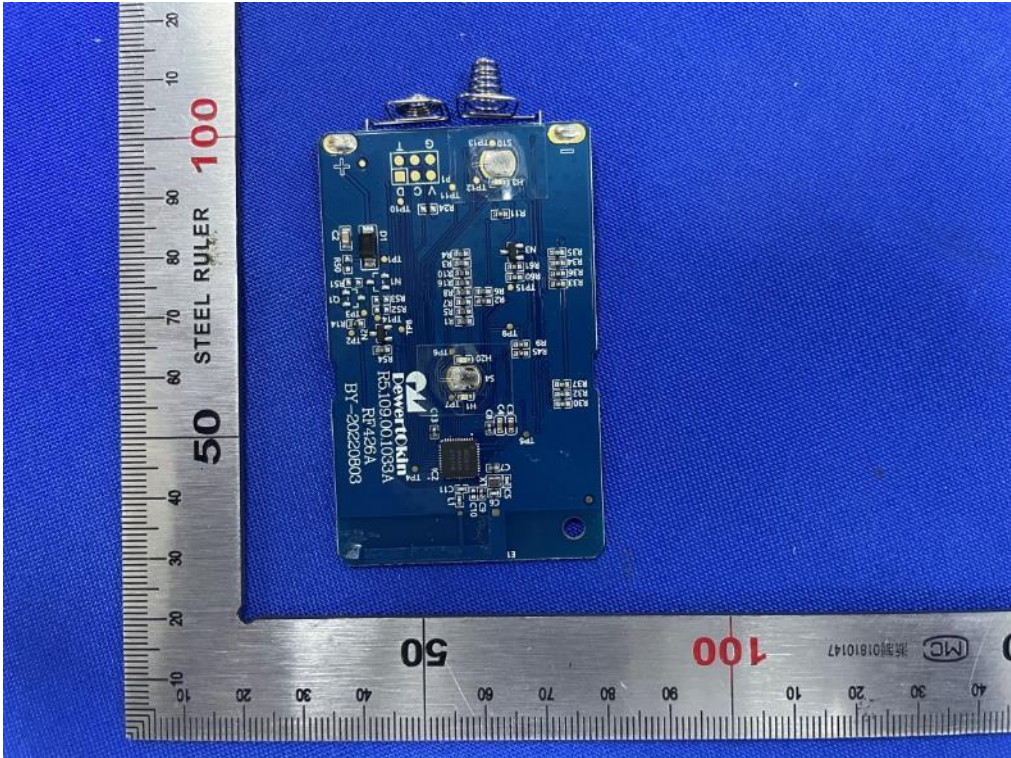


Open of the sample

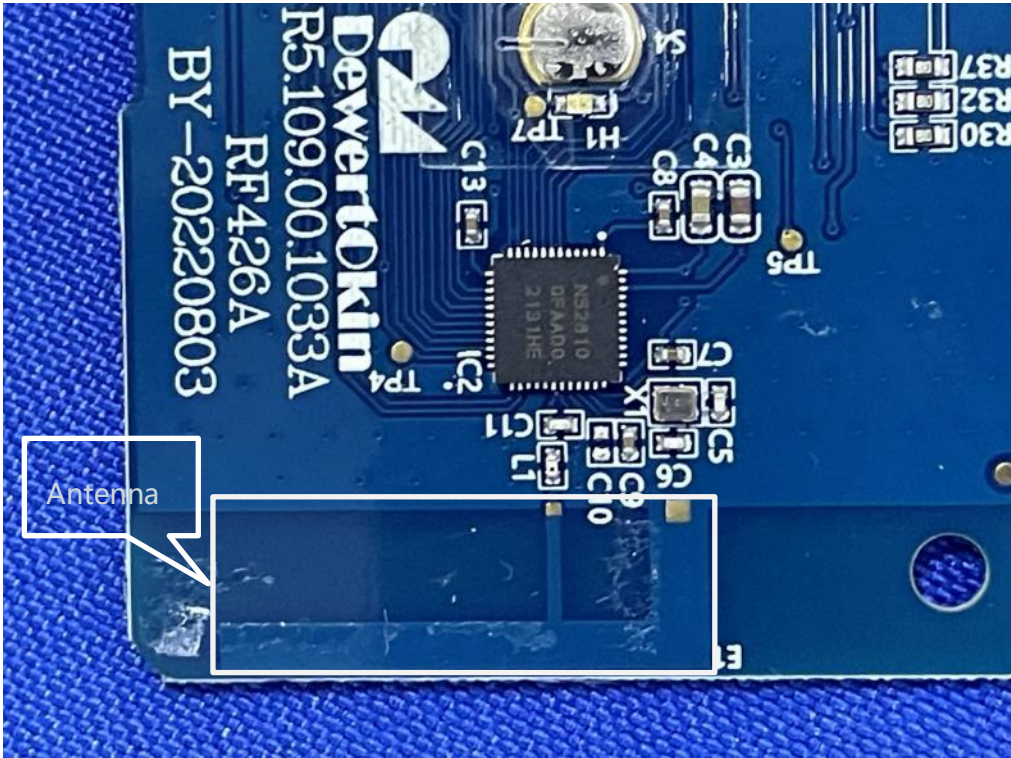


Internal-1 of the sample

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Internal-2 of the sample



Antenna position of the sample

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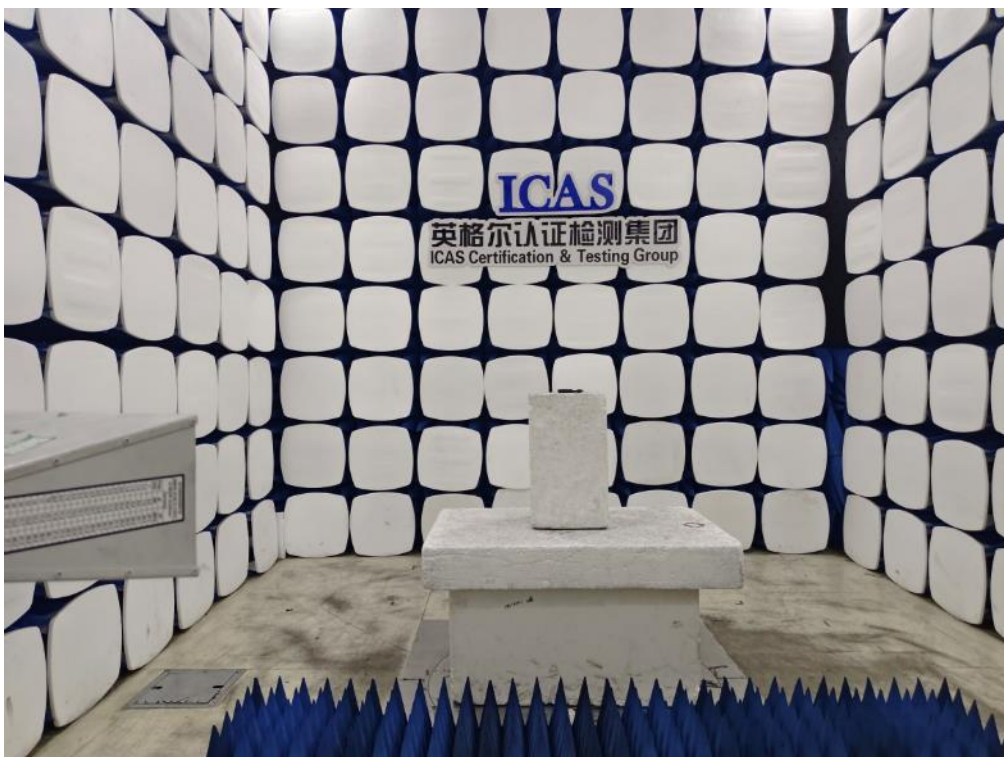
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5.2 Set-up for Spurious Emissions below 1GHz



5.3 Set-up for Spurious Emissions above 1GHz



End of the report