

TEST REPORT

Report No.: SHE23060075-01AE

Date: 2023-07-12

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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 : RF426B-18, RF426B-16
Sample Acquisition Method : Sent by Client
Sample No. : E23060075-01#01(Radiation Prototype)
E23060075-01#03(Radiation Prototype)
E23060075-01#02(Conduction Prototype)
FCC ID : 2AK23-RF426B
ISED Number : 22406-RF426B

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 : 2023-07-12

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.

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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	Room 247, Floor 6, Jiaxing Photovoltaic Science and Innovation Park, 1288 Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Province 314016 China
Factory Company Name	DewertOkin Technology Group Co., Ltd.
Address	Room 247, Floor 6, Jiaxing Photovoltaic Science and Innovation Park, 1288 Kanghe Road, Xiuzhou District, Jiaxing City, Zhejiang Province 314016 China

1.3 Details of EUT

Product Name	REMOTE CONTROL
Brand Name	N/A
Test Model Name	RF426B-18
Series Model Name	RF426B-16
Difference Description	All the same except for the buttons and model name, Refer to the sample photo for details.
FCC ID	2AK23-RF426B
ISED Number	22406-RF426B
Operation Frequency	2403MHz ~ 2480MHz
Maximum Field Strength	80.64dBuV/m(Peak)@3m
Number of Channels	78
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	1.225dBi

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Extreme Temperature Range	-10°C~ +40°C
Test Voltage	DC 3.0V supply by battery
Hardware Version	R5.109.00.1034A
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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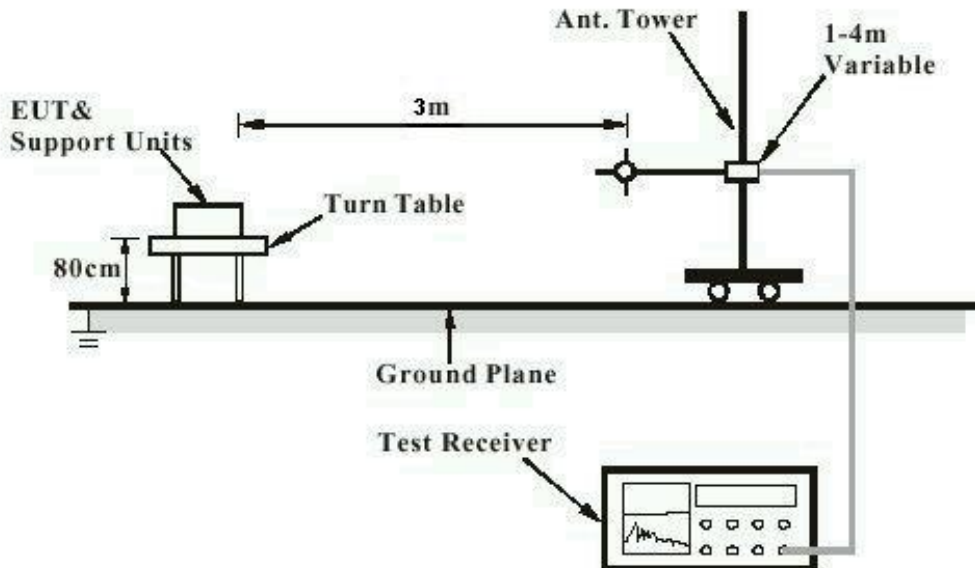
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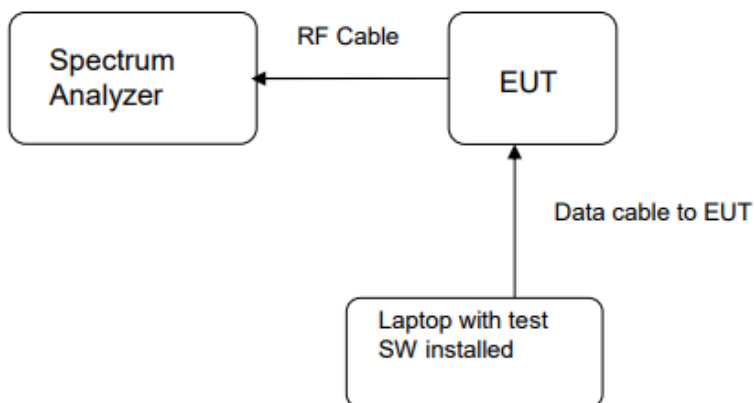
3.4 Test Setup Diagram

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.

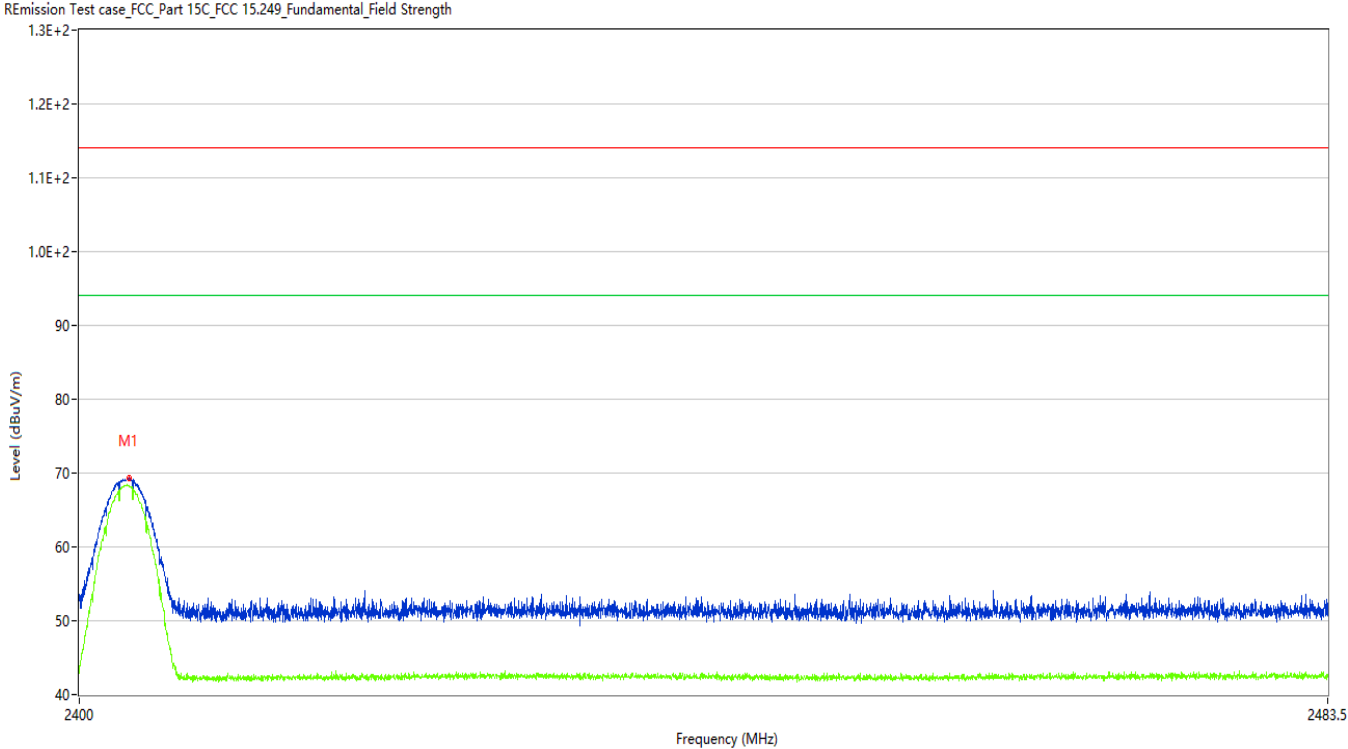
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Figure 1: Test plots of Field strength of fundamental, 2403MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2403.298	69.39	-9.81	114.0	44.61	Peak	170.50	100	Horizontal	Pass
1**	2403.298	68.33	-9.81	94.0	25.67	AV	170.50	100	Horizontal	Pass

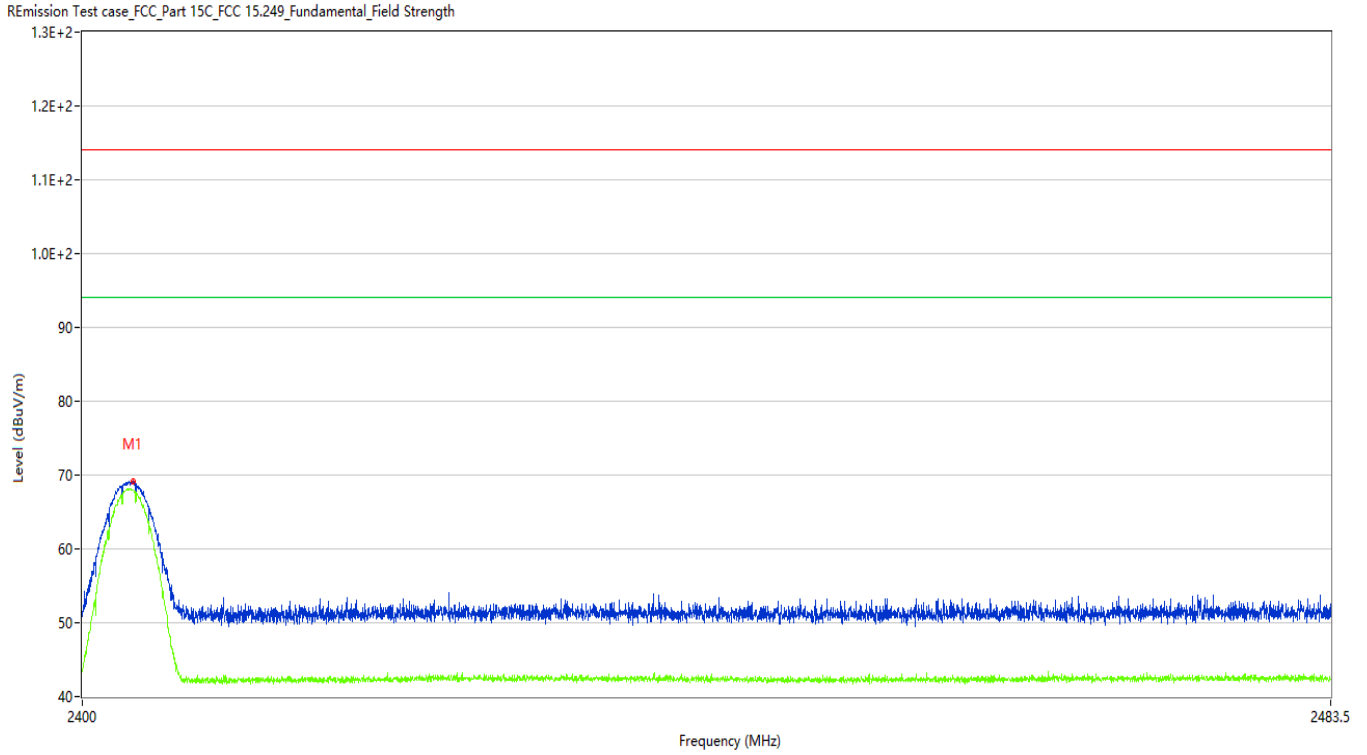
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Figure 2: Test plots of Field strength of fundamental, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2403.361	69.22	-9.81	114.0	44.78	Peak	194.40	100	Vertical	Pass
1**	2403.361	67.91	-9.81	94.0	26.09	AV	194.40	100	Vertical	Pass

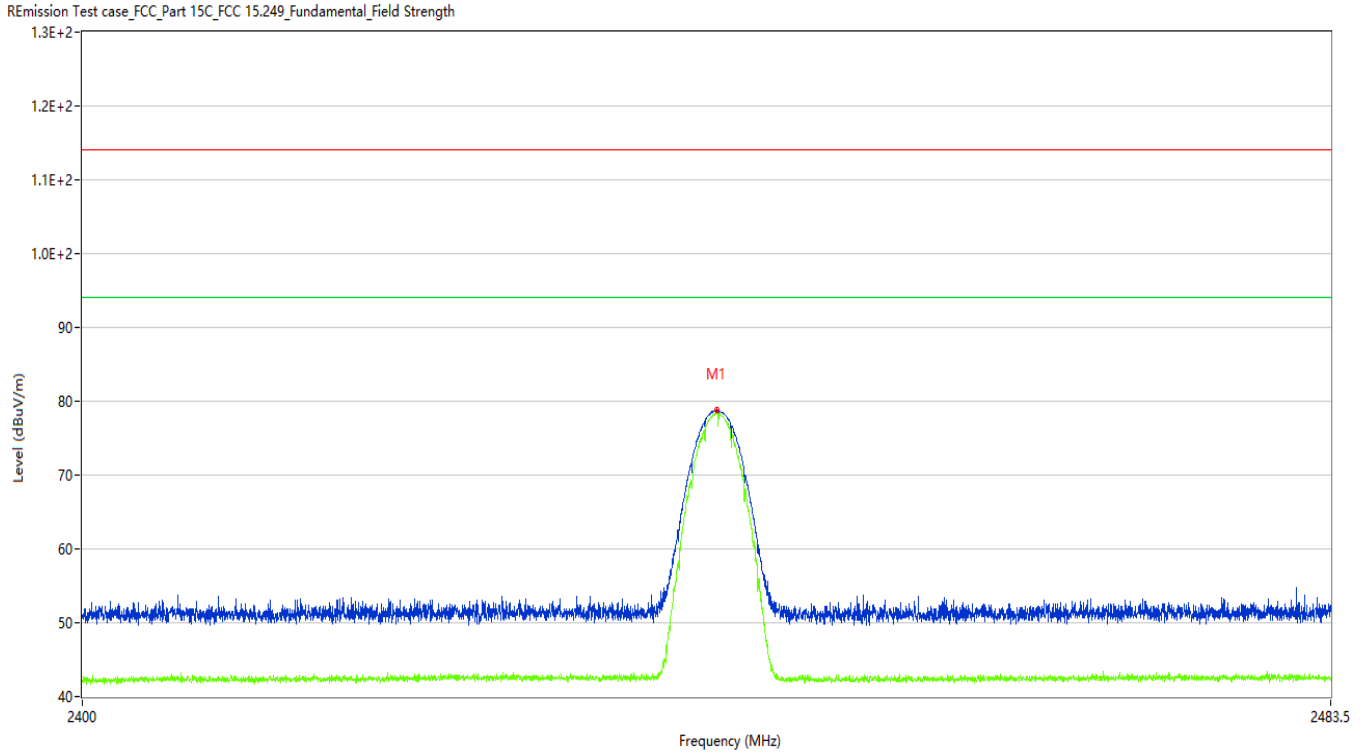
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Figure 3: Test plots of Field strength of fundamental, 2442MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2442.105	78.73	-9.62	114.0	35.27	Peak	250.80	100	Horizontal	Pass
1**	2442.105	78.31	-9.62	94.0	15.69	AV	250.80	100	Horizontal	Pass

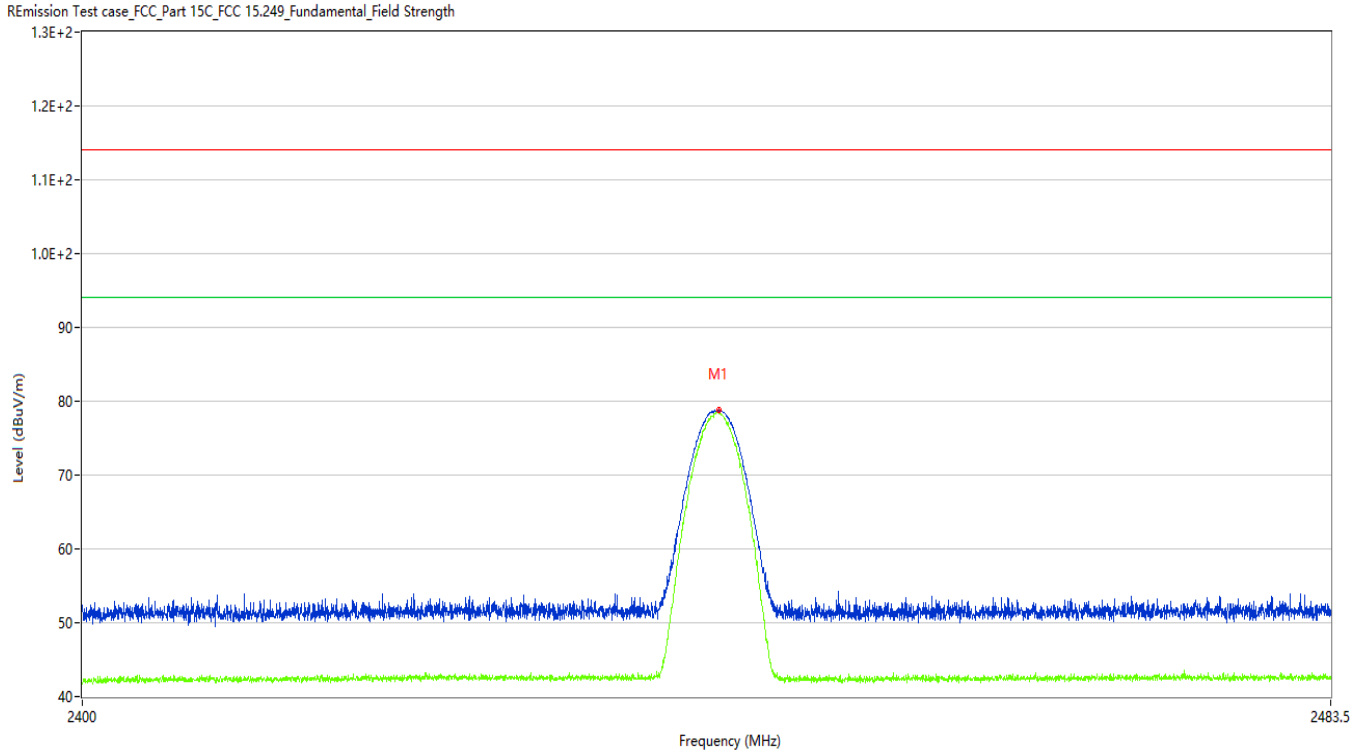
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Figure 4: Test plots of Field strength of fundamental, 2442MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2442.209	78.80	-9.62	114.0	35.20	Peak	106.50	100	Vertical	Pass
1**	2442.209	78.37	-9.62	94.0	15.63	AV	106.50	100	Vertical	Pass

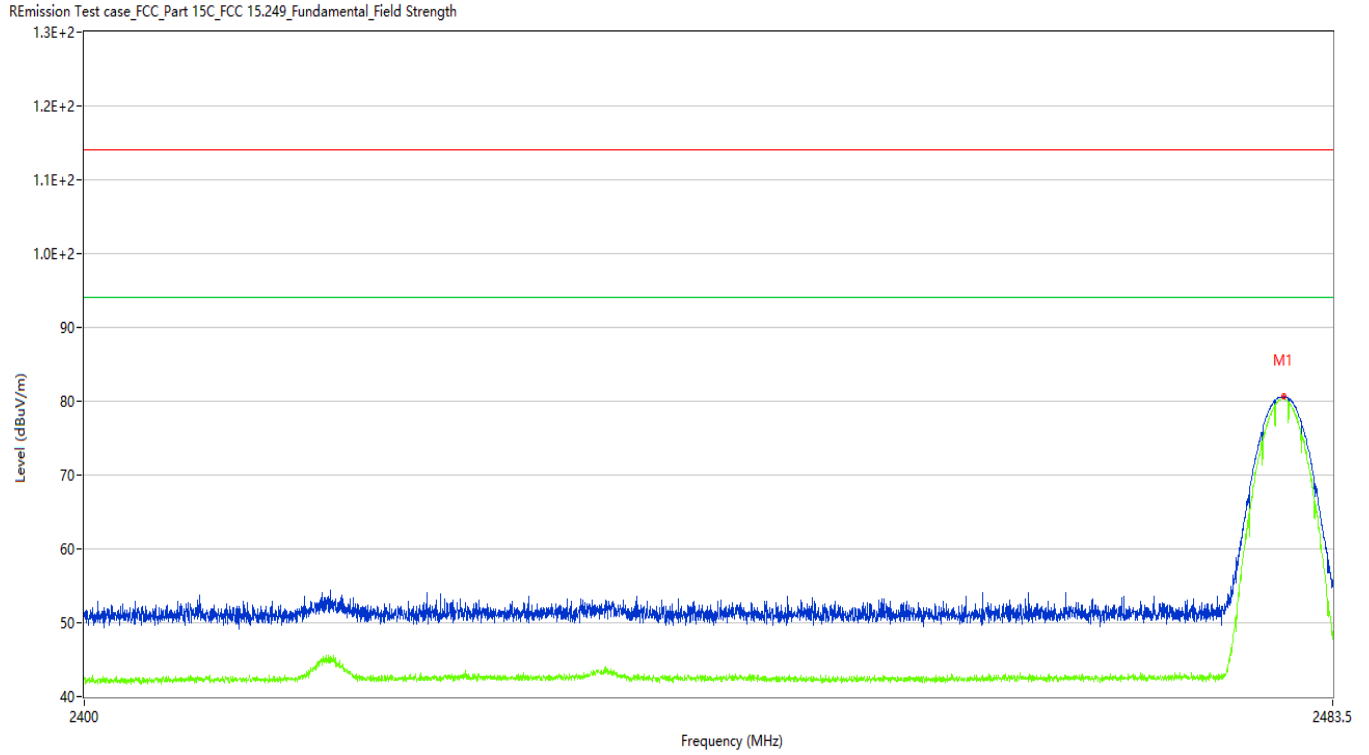
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Figure 5: Test plots of Field strength of fundamental, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.181	80.64	-9.48	114.0	33.36	Peak	246.00	100	Horizontal	Pass
1**	2480.181	80.29	-9.48	94.0	13.71	AV	246.00	100	Horizontal	Pass

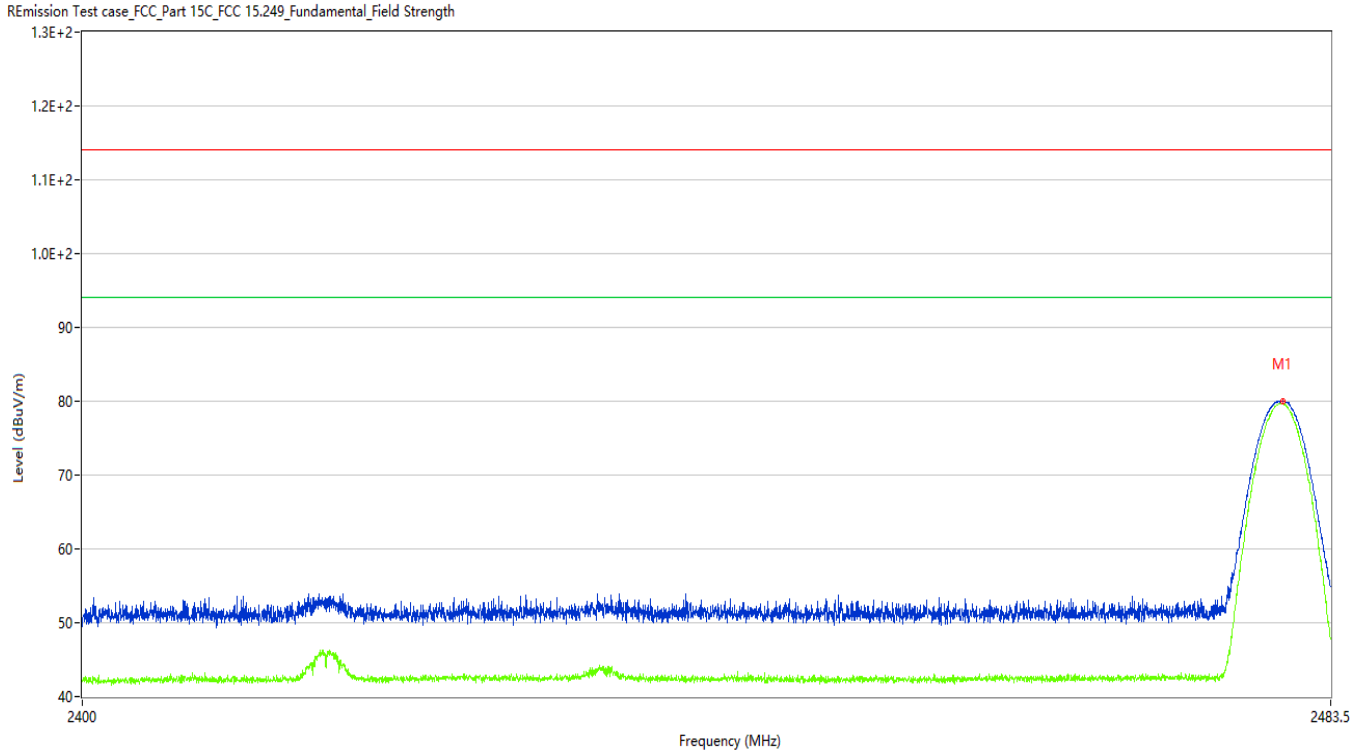
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Figure 6: Test plots of Field strength of fundamental, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.264	80.03	-9.48	114.0	33.97	Peak	184.30	100	Vertical	Pass
1**	2480.264	79.68	-9.48	94.0	14.32	AV	184.30	100	Vertical	Pass

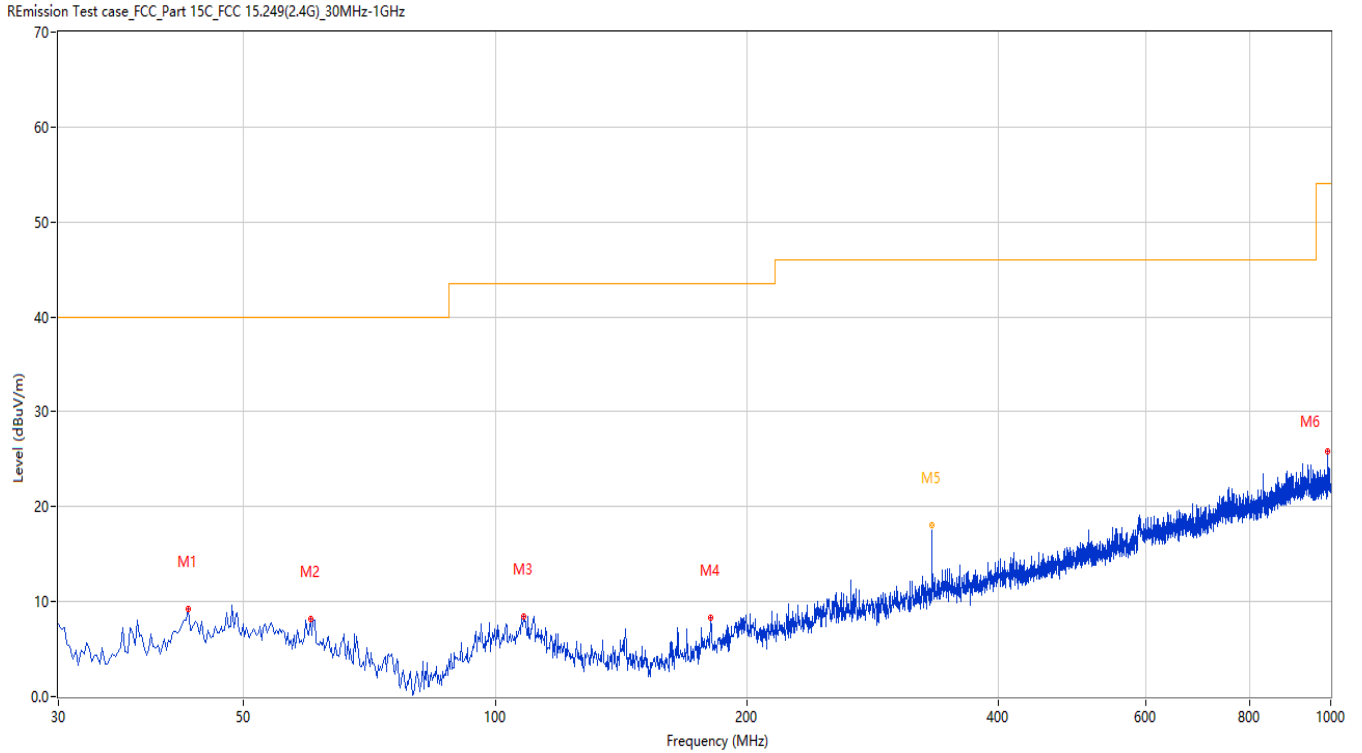
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Figure 7: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.849	9.24	-25.52	40.0	30.76	Peak	264.40	100	Horizontal	Pass
2	60.062	8.21	-26.30	40.0	31.79	Peak	161.70	100	Horizontal	Pass
3	108.308	8.38	-26.78	43.5	35.12	Peak	216.00	100	Horizontal	Pass
4	181.282	8.33	-28.12	43.5	35.17	Peak	192.60	100	Horizontal	Pass
5	333.270	20.48	-22.53	46.0	25.52	Peak	233.10	195	Horizontal	Pass
5*	333.270	18.03	-22.53	46.0	27.97	QP	233.10	195	Horizontal	Pass
6	991.757	25.82	-8.51	54.0	28.18	Peak	136.80	100	Horizontal	Pass

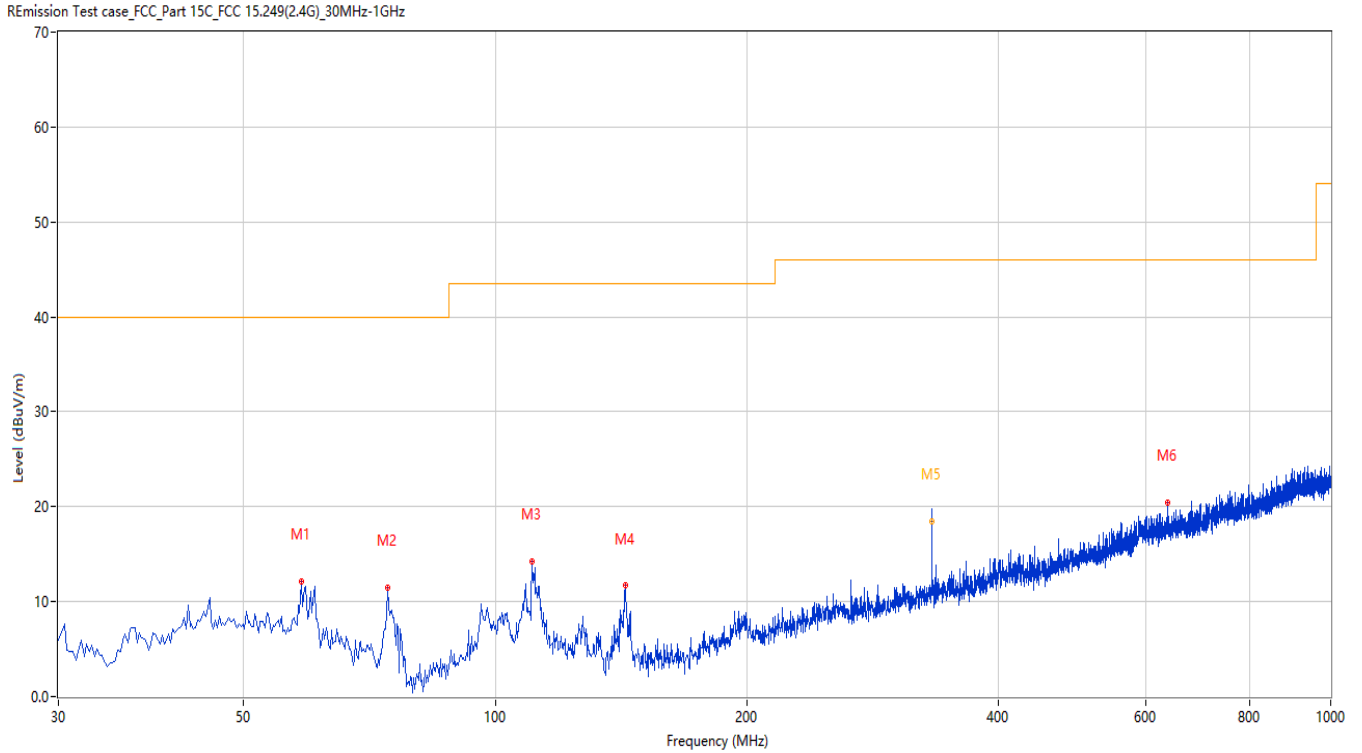
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Figure 8: Test plots of Field strength of harmonics, 2403MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	58.608	12.17	-25.97	40.0	27.83	Peak	222.90	100	Vertical	Pass
2	74.366	11.43	-30.84	40.0	28.57	Peak	36.50	100	Vertical	Pass
3	110.732	14.21	-27.00	43.5	29.29	Peak	261.90	100	Vertical	Pass
4	143.219	11.67	-29.98	43.5	31.83	Peak	233.70	100	Vertical	Pass
5	333.272	20.75	-22.53	46.0	25.25	Peak	113.20	101	Vertical	Pass
5*	333.272	18.49	-22.53	46.0	27.51	QP	113.20	101	Vertical	Pass
6	637.311	20.39	-15.26	46.0	25.61	Peak	30.20	100	Vertical	Pass

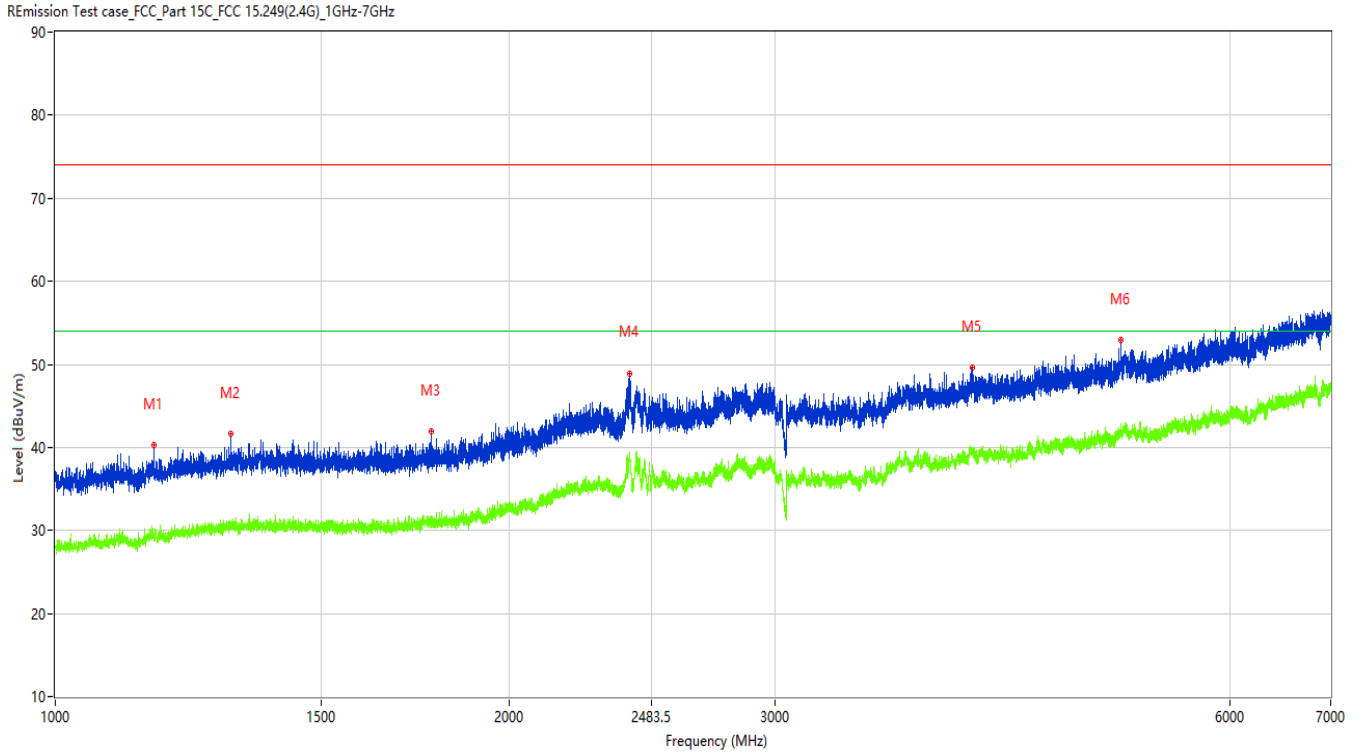
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Figure 9: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.250	40.29	-13.67	74.0	33.71	Peak	285.50	100	Horizontal	Pass
1**	1162.250	29.24	-13.67	54.0	24.76	AV	285.50	100	Horizontal	Pass
2	1307.250	41.65	-12.61	74.0	32.35	Peak	0.00	100	Horizontal	Pass
2**	1307.250	30.11	-12.61	54.0	23.89	AV	0.00	100	Horizontal	Pass
3	1774.500	41.90	-12.32	74.0	32.10	Peak	271.00	100	Horizontal	Pass
3**	1774.500	30.84	-12.32	54.0	23.16	AV	271.00	100	Horizontal	Pass
4	2401.250	48.93	-4.43	74.0	25.07	Peak	256.80	100	Horizontal	Pass
4**	2401.250	38.79	-4.43	54.0	15.21	AV	256.80	100	Horizontal	Pass
5	4052.500	49.68	-0.79	74.0	24.32	Peak	153.40	100	Horizontal	Pass
5**	4052.500	39.85	-0.79	54.0	14.15	AV	153.40	100	Horizontal	Pass
6	5080.000	52.91	1.11	74.0	21.09	Peak	360.00	100	Horizontal	Pass
6**	5080.000	42.09	1.11	54.0	11.91	AV	360.00	100	Horizontal	Pass

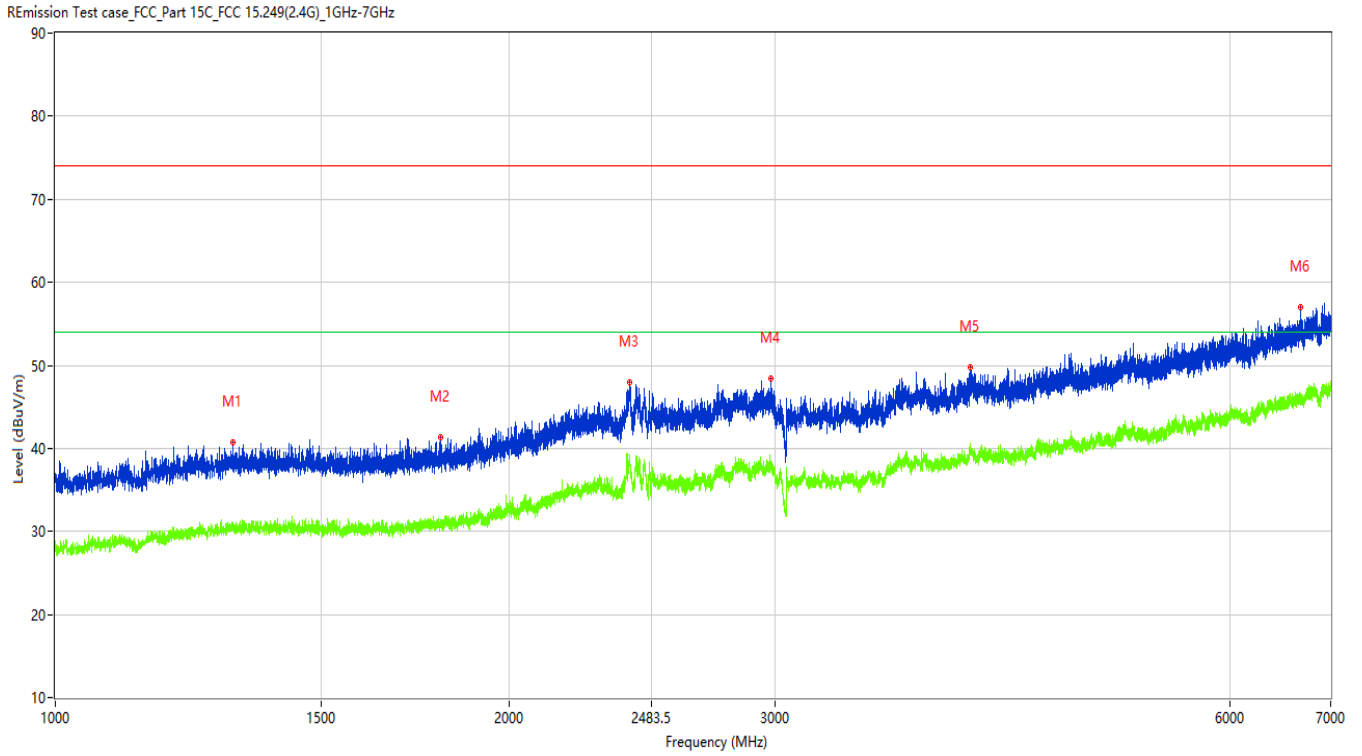
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Figure 10: Test plots of Field strength of harmonics, 2403MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.500	40.74	-12.67	74.0	33.26	Peak	156.70	100	Vertical	Pass
1**	1311.500	30.65	-12.67	54.0	23.35	AV	156.70	100	Vertical	Pass
2	1800.250	41.31	-12.54	74.0	32.69	Peak	156.70	100	Vertical	Pass
2**	1800.250	30.92	-12.54	54.0	23.08	AV	156.70	100	Vertical	Pass
3	2401.000	47.91	-4.43	74.0	26.09	Peak	122.80	100	Vertical	Pass
3**	2401.000	38.76	-4.43	54.0	15.24	AV	122.80	100	Vertical	Pass
4	2980.250	48.36	-3.21	74.0	25.64	Peak	139.20	100	Vertical	Pass
4**	2980.250	38.28	-3.21	54.0	15.72	AV	139.20	100	Vertical	Pass
5	4040.500	49.76	-0.90	74.0	24.24	Peak	360.00	100	Vertical	Pass
5**	4040.500	40.58	-0.90	54.0	13.42	AV	360.00	100	Vertical	Pass
6	6683.500	56.99	4.50	74.0	17.01	Peak	187.40	100	Vertical	Pass
6**	6683.500	45.84	4.50	54.0	8.16	AV	187.40	100	Vertical	Pass

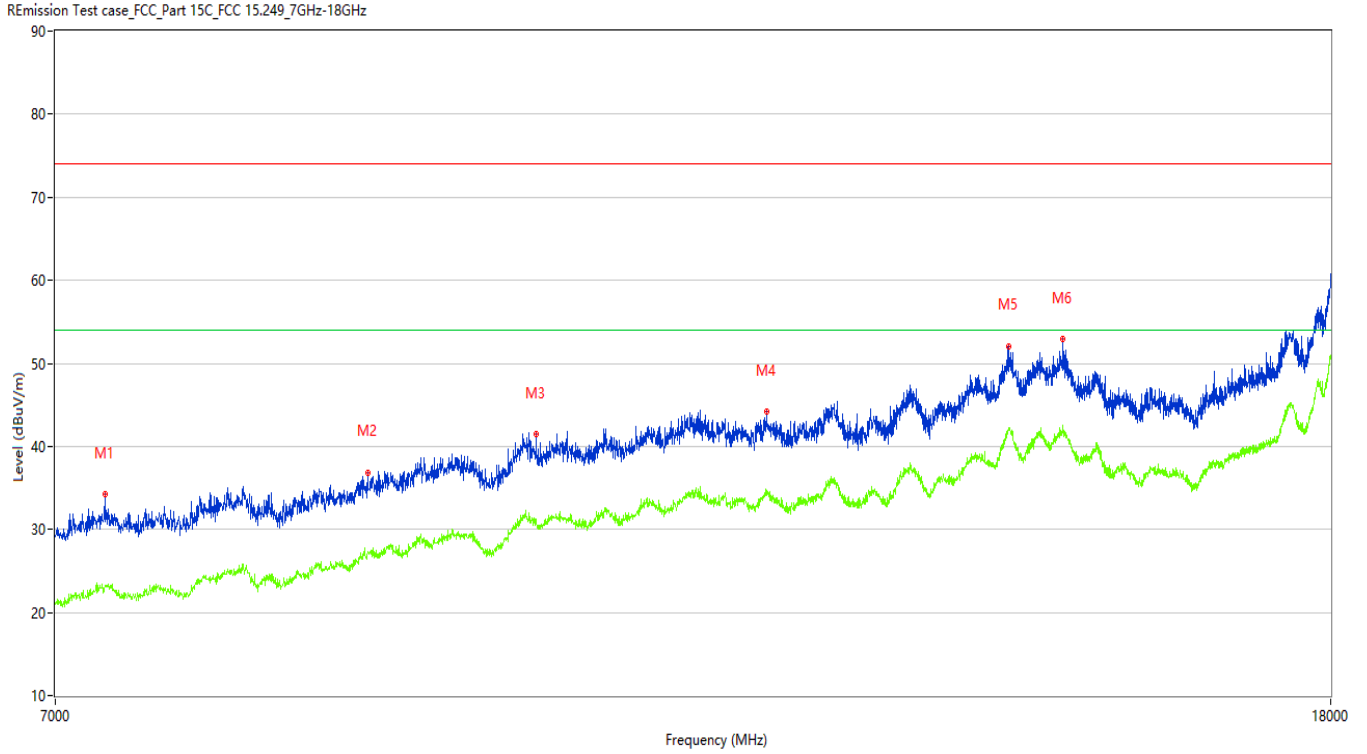
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Figure 11: Test plots of Field strength of harmonics, 2403MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7261.250	34.27	1.73	74.0	39.73	Peak	204.40	100	Horizontal	Pass
1**	7261.250	23.20	1.73	54.0	30.80	AV	204.40	100	Horizontal	Pass
2	8820.500	36.88	5.15	74.0	37.12	Peak	81.90	100	Horizontal	Pass
2**	8820.500	27.15	5.15	54.0	26.85	AV	81.90	100	Horizontal	Pass
3	9994.750	41.54	9.26	74.0	32.46	Peak	357.00	100	Horizontal	Pass
3**	9994.750	31.20	9.26	54.0	22.80	AV	357.00	100	Horizontal	Pass
4	11856.500	44.27	11.96	74.0	29.73	Peak	357.00	100	Horizontal	Pass
4**	11856.500	34.78	11.96	54.0	19.22	AV	357.00	100	Horizontal	Pass
5	14185.750	52.11	19.69	74.0	21.89	Peak	237.90	100	Horizontal	Pass
5**	14185.750	42.25	19.69	54.0	11.75	AV	237.90	100	Horizontal	Pass
6	14763.250	52.92	18.86	74.0	21.08	Peak	357.00	100	Horizontal	Pass
6**	14763.250	42.50	18.86	54.0	11.50	AV	357.00	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	8045.000	35.30	4.57	74.0	38.70	Peak	0.00	100	Vertical	Pass
1**	8045.000	25.54	4.57	54.0	28.46	AV	0.00	100	Vertical	Pass
2	8468.500	36.19	3.75	74.0	37.81	Peak	107.50	100	Vertical	Pass
2**	8468.500	25.17	3.75	54.0	28.83	AV	107.50	100	Vertical	Pass
3	9950.750	41.18	9.69	74.0	32.82	Peak	231.80	100	Vertical	Pass
3**	9950.750	31.12	9.69	54.0	22.88	AV	231.80	100	Vertical	Pass
4	13215.000	47.32	14.13	74.0	26.68	Peak	355.60	100	Vertical	Pass
4**	13215.000	37.32	14.13	54.0	16.68	AV	355.60	100	Vertical	Pass
5	14207.750	51.79	19.32	74.0	22.21	Peak	107.50	100	Vertical	Pass
5**	14207.750	42.05	19.32	54.0	11.95	AV	107.50	100	Vertical	Pass
6	17499.501	54.89	21.21	74.0	19.11	Peak	293.60	100	Vertical	Pass
6**	17499.501	44.65	21.21	54.0	9.35	AV	293.60	100	Vertical	Pass

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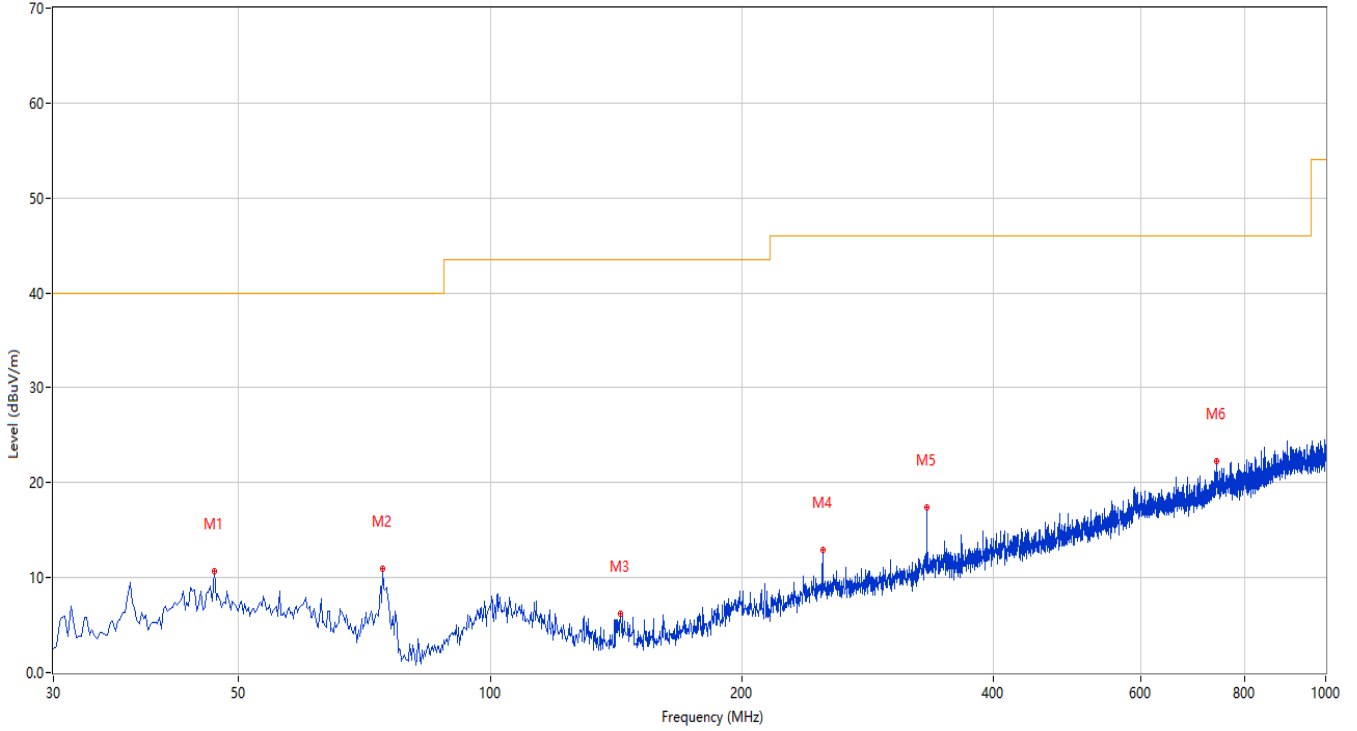
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Figure 13: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Horizontal polarization

R:Emission 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	46.728	10.69	-25.17	40.0	29.31	Peak	25.20	100	Horizontal	Pass
2	74.366	10.97	-30.84	40.0	29.03	Peak	355.70	100	Horizontal	Pass
3	143.219	6.20	-29.98	43.5	37.30	Peak	288.60	100	Horizontal	Pass
4	249.893	12.93	-24.60	46.0	33.07	Peak	76.90	100	Horizontal	Pass
5	333.292	17.39	-22.51	46.0	28.61	Peak	228.40	100	Horizontal	Pass
6	740.590	22.29	-12.72	46.0	23.71	Peak	226.10	100	Horizontal	Pass
1	46.728	10.69	-25.17	40.0	29.31	Peak	25.20	100	Horizontal	Pass

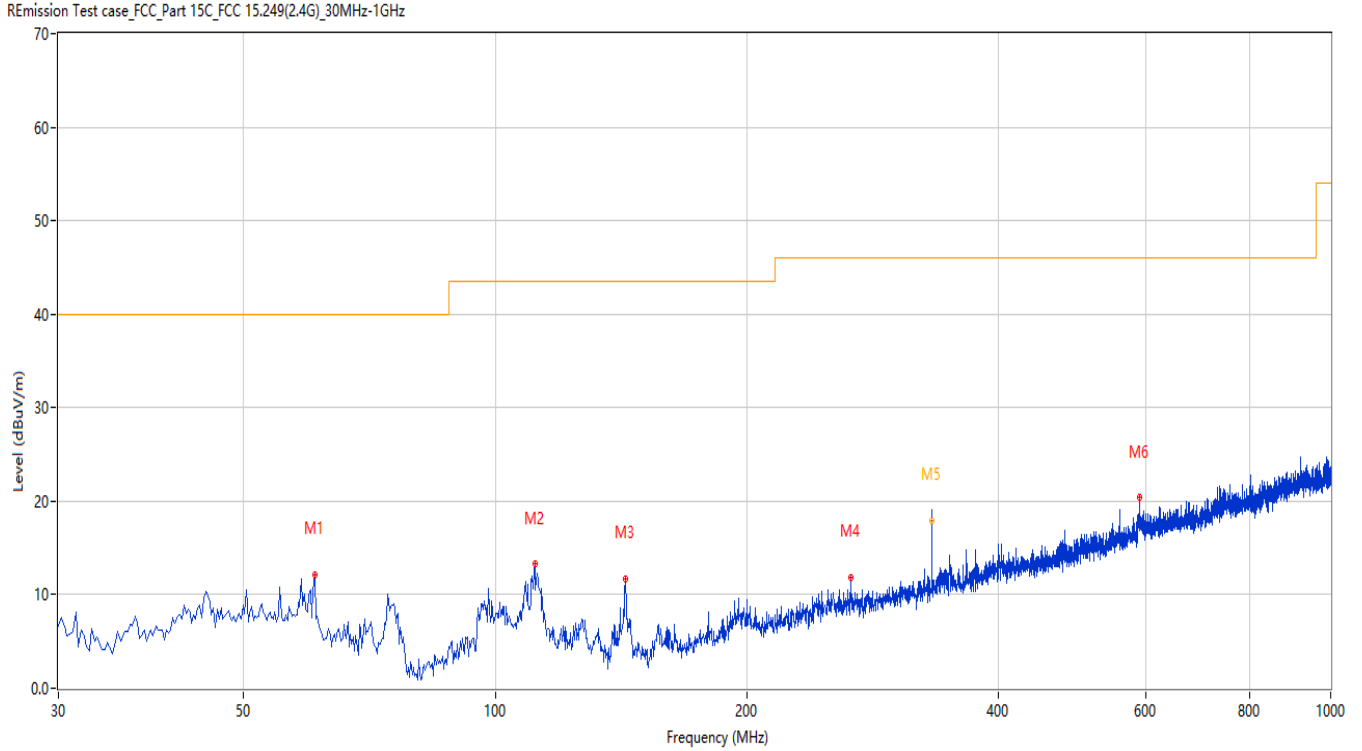
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Figure 14: Test plots of Field strength of harmonics, 2442MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	60.790	12.20	-26.48	40.0	27.80	Peak	36.50	100	Vertical	Pass
2	111.460	13.26	-27.08	43.5	30.24	Peak	32.10	100	Vertical	Pass
3	143.219	11.74	-29.98	43.5	31.76	Peak	341.00	100	Vertical	Pass
4	266.621	11.84	-24.47	46.0	34.16	Peak	355.70	100	Vertical	Pass
5	333.273	20.59	-22.53	46.0	25.41	Peak	297.80	266	Vertical	Pass
5*	333.273	17.89	-22.53	46.0	28.11	QP	297.80	266	Vertical	Pass
6	590.762	20.36	-15.75	46.0	25.64	Peak	279.60	100	Vertical	Pass

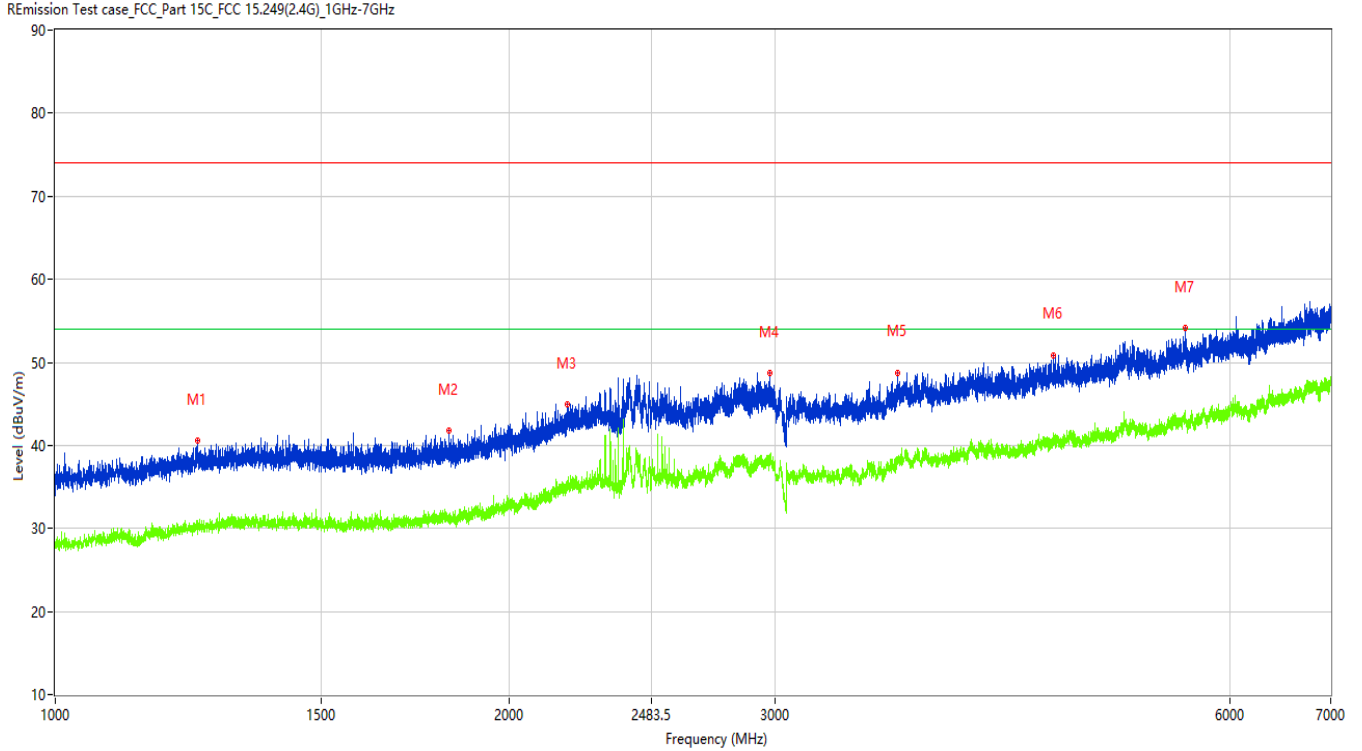
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Figure 15: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1242.000	40.58	-13.19	74.0	33.42	Peak	252.30	100	Horizontal	Pass
1**	1242.000	30.41	-13.19	54.0	23.59	AV	252.30	100	Horizontal	Pass
2	1823.250	41.72	-12.28	74.0	32.28	Peak	0.00	100	Horizontal	Pass
2**	1823.250	31.53	-12.28	54.0	22.47	AV	0.00	100	Horizontal	Pass
3	2183.750	44.92	-8.12	74.0	29.08	Peak	111.70	100	Horizontal	Pass
3**	2183.750	34.65	-8.12	54.0	19.35	AV	111.70	100	Horizontal	Pass
4	2976.500	48.74	-3.24	74.0	25.26	Peak	252.30	100	Horizontal	Pass
4**	2976.500	38.68	-3.24	54.0	15.32	AV	252.30	100	Horizontal	Pass
5	3616.000	48.77	-1.82	74.0	25.23	Peak	51.50	100	Horizontal	Pass
5**	3616.000	38.42	-1.82	54.0	15.58	AV	51.50	100	Horizontal	Pass
6	4583.000	50.90	-0.69	74.0	23.10	Peak	145.30	100	Horizontal	Pass
6**	4583.000	41.08	-0.69	54.0	12.92	AV	145.30	100	Horizontal	Pass
7	5611.500	54.09	1.78	74.0	19.91	Peak	271.90	100	Horizontal	Pass
7**	5611.500	43.14	1.78	54.0	10.86	AV	271.90	100	Horizontal	Pass

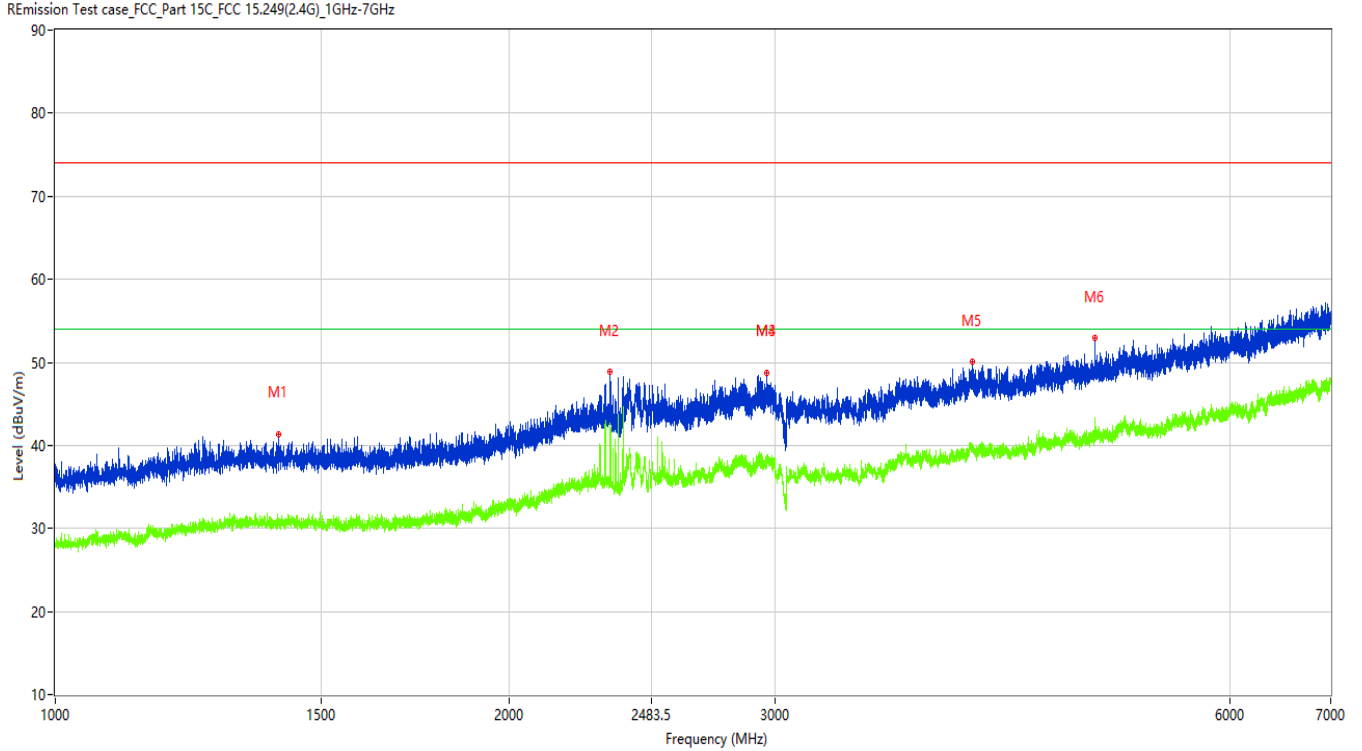
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Figure 16: Test plots of Field strength of harmonics, 2442MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1405.000	41.39	-12.73	74.0	32.61	Peak	284.30	100	Vertical	Pass
1**	1405.000	30.57	-12.73	54.0	23.43	AV	284.30	100	Vertical	Pass
2	2332.500	48.87	-8.08	74.0	25.13	Peak	66.50	100	Vertical	Pass
2**	2332.500	42.65	-8.08	54.0	11.35	AV	66.50	100	Vertical	Pass
3	2962.000	48.79	-3.40	74.0	25.21	Peak	96.30	100	Vertical	Pass
3**	2962.000	38.13	-3.40	54.0	15.87	AV	96.30	100	Vertical	Pass
4	2962.000	48.79	-3.40	74.0	25.21	Peak	96.30	100	Vertical	Pass
4**	2962.000	38.13	-3.40	54.0	15.87	AV	96.30	100	Vertical	Pass
5	4053.500	50.01	-0.77	74.0	23.99	Peak	360.00	100	Vertical	Pass
5**	4053.500	39.53	-0.77	54.0	14.47	AV	360.00	100	Vertical	Pass
6	4884.500	52.92	0.07	74.0	21.08	Peak	68.70	100	Vertical	Pass
6**	4884.500	42.88	0.07	54.0	11.12	AV	68.70	100	Vertical	Pass

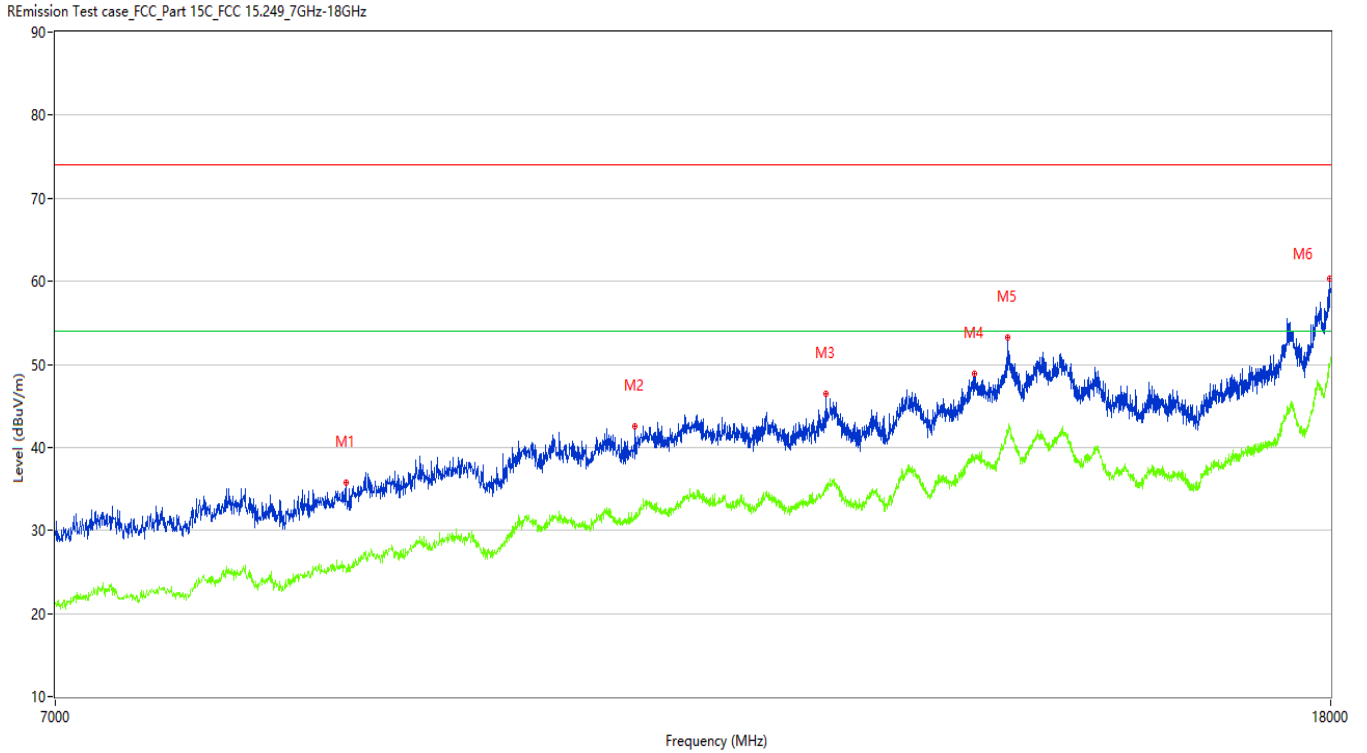
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Figure 17: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8680.250	35.69	4.70	74.0	38.31	Peak	138.80	100	Horizontal	Pass
1**	8680.250	25.38	4.70	54.0	28.62	AV	138.80	100	Horizontal	Pass
2	10753.750	42.51	10.13	74.0	31.49	Peak	262.70	100	Horizontal	Pass
2**	10753.750	31.58	10.13	54.0	22.42	AV	262.70	100	Horizontal	Pass
3	12390.000	46.45	12.20	74.0	27.55	Peak	138.80	100	Horizontal	Pass
3**	12390.000	35.46	12.20	54.0	18.54	AV	138.80	100	Horizontal	Pass
4	13825.500	48.86	15.11	74.0	25.14	Peak	202.10	100	Horizontal	Pass
4**	13825.500	38.83	15.11	54.0	15.17	AV	202.10	100	Horizontal	Pass
5	14174.750	53.17	19.34	74.0	20.83	Peak	138.80	100	Horizontal	Pass
5**	14174.750	42.09	19.34	54.0	11.91	AV	138.80	100	Horizontal	Pass
6	17988.999	60.31	27.24	74.0	13.69	Peak	202.10	100	Horizontal	Pass
6**	17988.999	50.09	27.24	54.0	3.91	AV	202.10	100	Horizontal	Pass

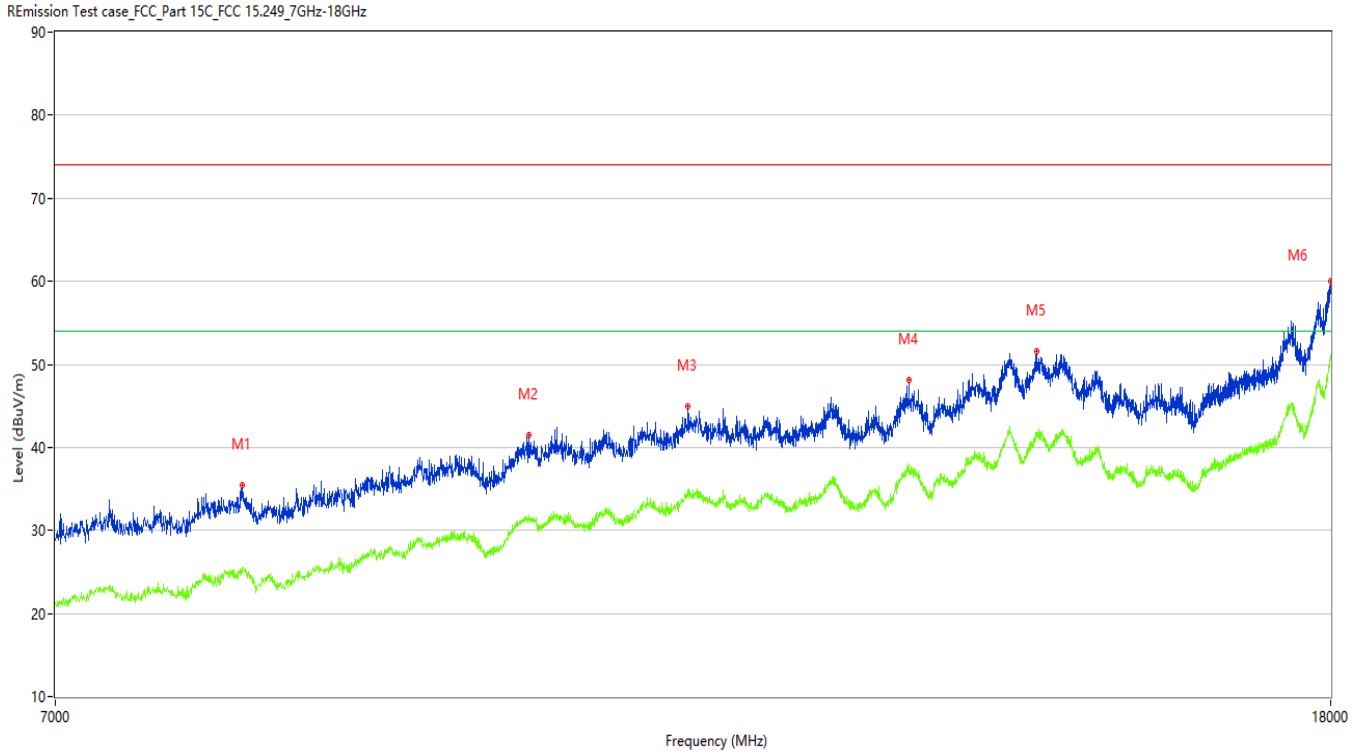
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Figure 18: Test plots of Field strength of harmonics, 2442MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8036.750	35.50	4.44	74.0	38.50	Peak	309.90	100	Vertical	Pass
1**	8036.750	25.47	4.44	54.0	28.53	AV	309.90	100	Vertical	Pass
2	9942.500	41.50	9.75	74.0	32.50	Peak	360.00	100	Vertical	Pass
2**	9942.500	31.28	9.75	54.0	22.72	AV	360.00	100	Vertical	Pass
3	11185.500	44.96	11.14	74.0	29.04	Peak	119.40	100	Vertical	Pass
3**	11185.500	34.79	11.14	54.0	19.21	AV	119.40	100	Vertical	Pass
4	13171.000	48.13	14.02	74.0	25.87	Peak	119.40	100	Vertical	Pass
4**	13171.000	38.06	14.02	54.0	15.94	AV	119.40	100	Vertical	Pass
5	14474.500	51.51	17.88	74.0	22.49	Peak	0.00	100	Vertical	Pass
5**	14474.500	41.74	17.88	54.0	12.26	AV	0.00	100	Vertical	Pass
6	17997.251	60.01	27.75	74.0	13.99	Peak	28.20	100	Vertical	Pass
6**	17997.251	50.55	27.75	54.0	3.45	AV	28.20	100	Vertical	Pass

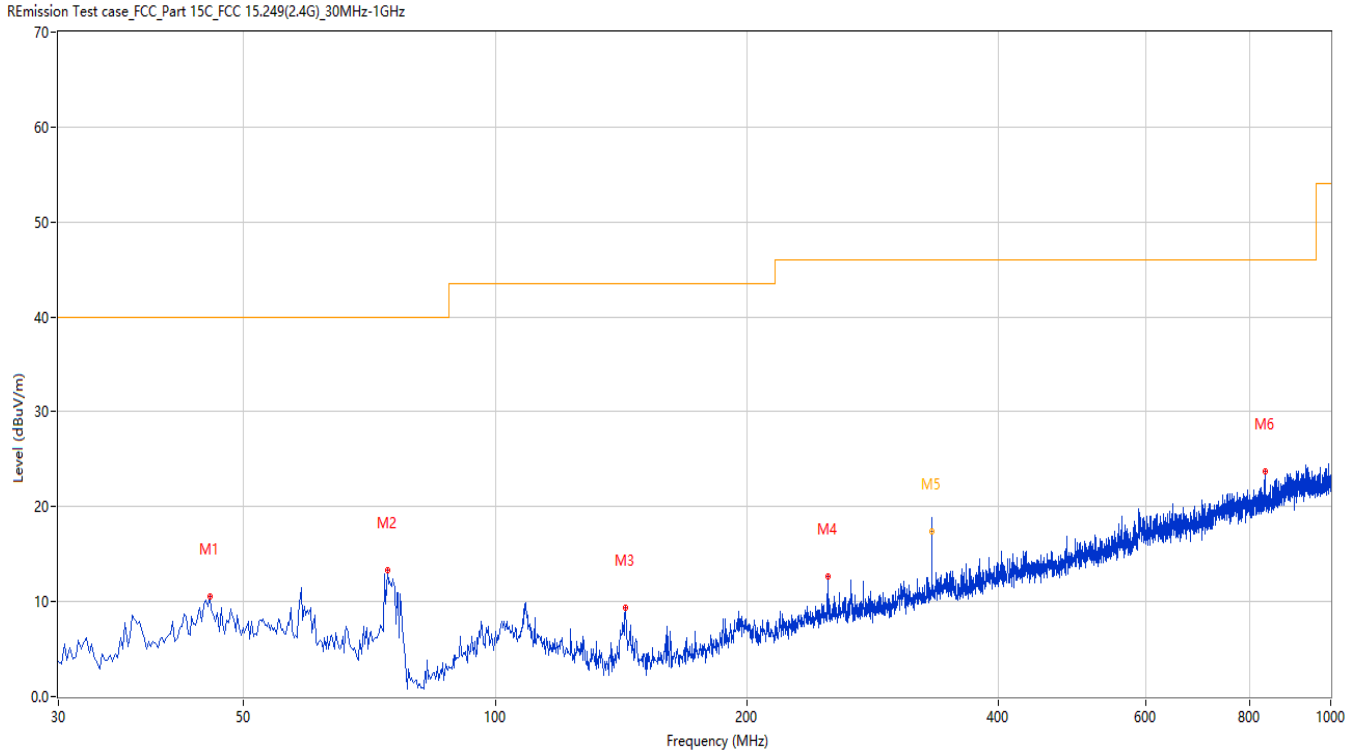
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Figure 19: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.516	10.57	-25.24	40.0	29.43	Peak	26.50	100	Horizontal	Pass
2	74.366	13.30	-30.84	40.0	26.70	Peak	1.80	100	Horizontal	Pass
3	143.219	9.36	-29.98	43.5	34.14	Peak	51.30	100	Horizontal	Pass
4	249.893	12.68	-24.60	46.0	33.32	Peak	291.60	100	Horizontal	Pass
5	333.271	20.09	-22.53	46.0	25.91	Peak	302.00	174	Horizontal	Pass
5*	333.271	17.36	-22.53	46.0	28.64	QP	302.00	174	Horizontal	Pass
6	834.414	23.75	-11.58	46.0	22.25	Peak	39.80	100	Horizontal	Pass

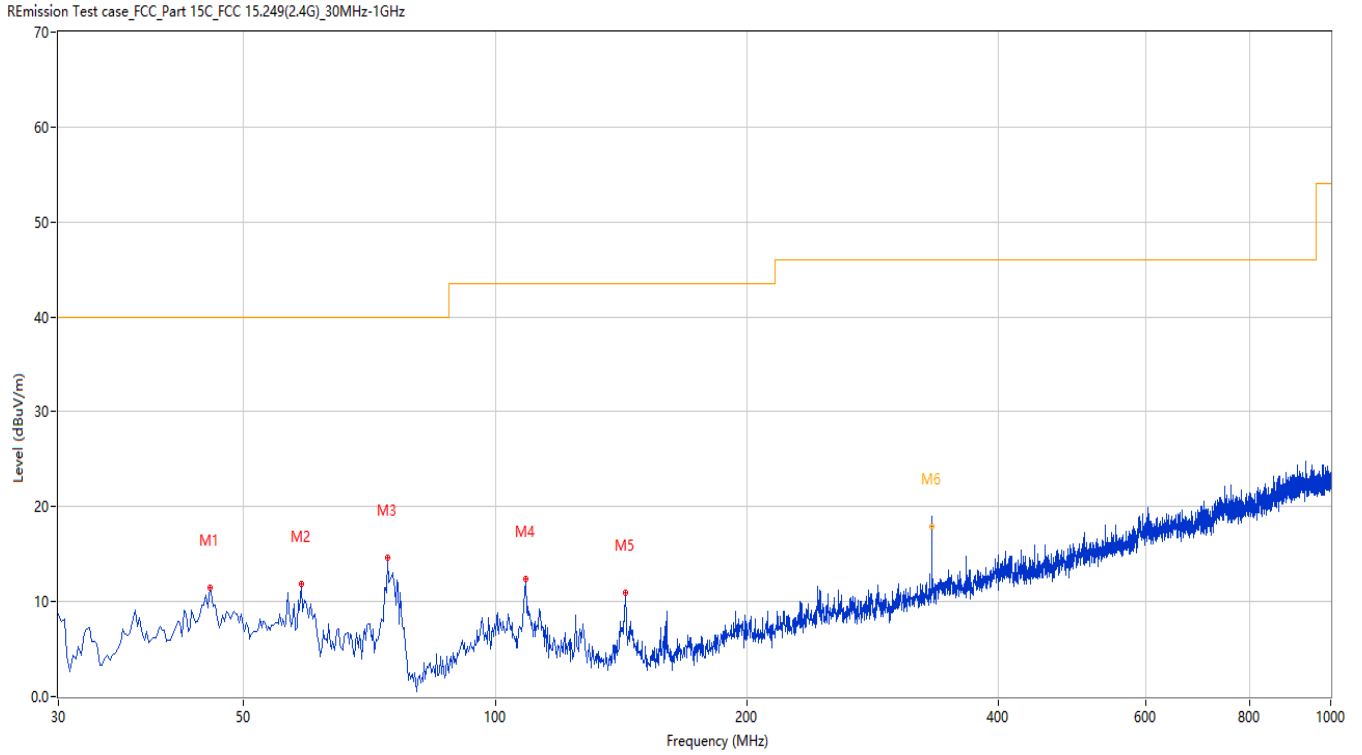
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Figure 20: Test plots of Field strength of harmonics, 2480MHz, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.516	11.48	-25.24	40.0	28.52	Peak	282.30	100	Vertical	Pass
2	58.608	11.84	-25.97	40.0	28.16	Peak	8.40	100	Vertical	Pass
3	74.366	14.60	-30.84	40.0	25.40	Peak	27.40	100	Vertical	Pass
4	108.793	12.40	-26.82	43.5	31.10	Peak	358.60	100	Vertical	Pass
5	143.219	10.92	-29.98	43.5	32.58	Peak	7.30	100	Vertical	Pass
6	333.274	20.68	-22.53	46.0	25.32	Peak	142.00	260	Vertical	Pass
6*	333.274	17.91	-22.53	46.0	28.09	QP	142.00	260	Vertical	Pass

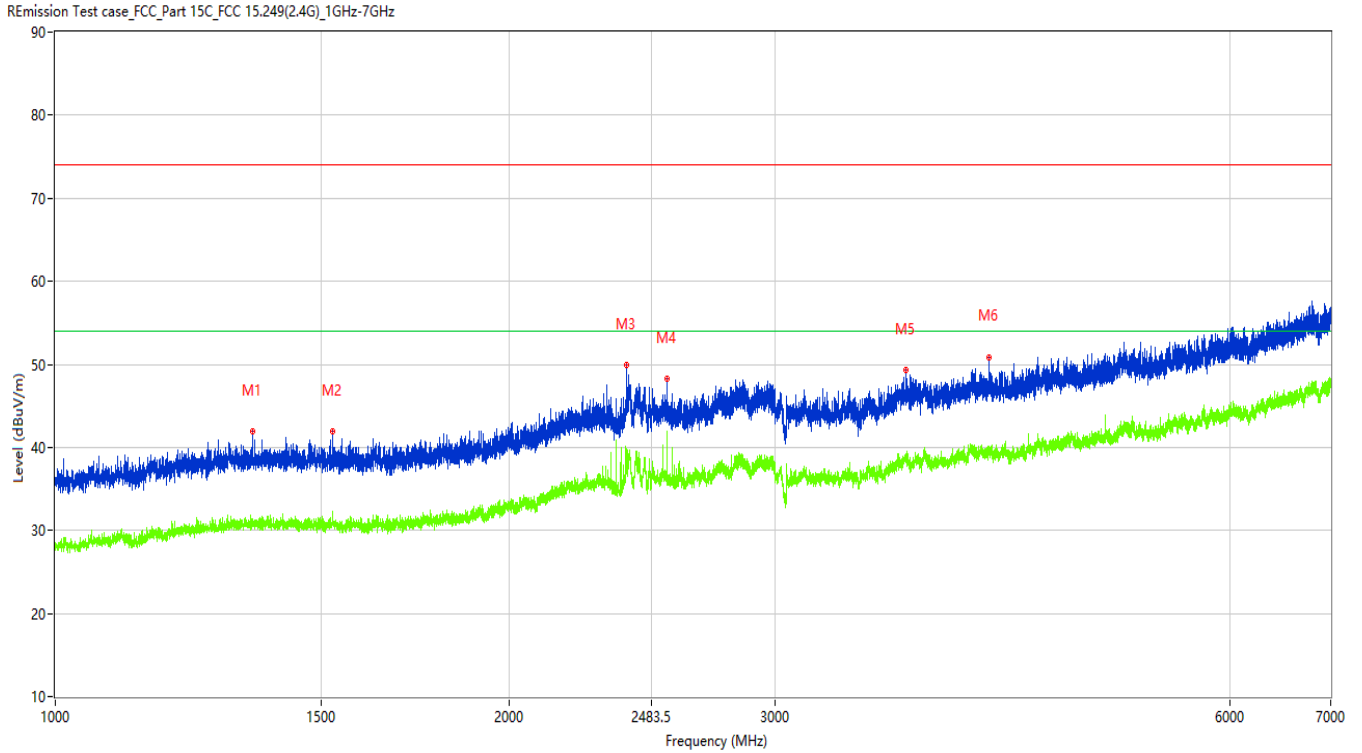
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Figure 21: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1350.750	41.87	-12.76	74.0	32.13	Peak	144.60	100	Horizontal	Pass
1**	1350.750	30.41	-12.76	54.0	23.59	AV	144.60	100	Horizontal	Pass
2	1526.000	41.91	-13.03	74.0	32.09	Peak	130.10	100	Horizontal	Pass
2**	1526.000	31.09	-13.03	54.0	22.91	AV	130.10	100	Horizontal	Pass
3	2391.750	49.89	-4.53	74.0	24.11	Peak	0.00	100	Horizontal	Pass
3**	2391.750	38.78	-4.53	54.0	15.22	AV	0.00	100	Horizontal	Pass
4	2544.250	48.22	-6.25	74.0	25.78	Peak	265.60	100	Horizontal	Pass
4**	2544.250	41.38	-6.25	54.0	12.62	AV	265.60	100	Horizontal	Pass
5	3661.000	49.28	-1.63	74.0	24.72	Peak	191.50	100	Horizontal	Pass
5**	3661.000	39.14	-1.63	54.0	14.86	AV	191.50	100	Horizontal	Pass
6	4157.000	50.89	-1.33	74.0	23.11	Peak	0.00	100	Horizontal	Pass
6**	4157.000	39.60	-1.33	54.0	14.40	AV	0.00	100	Horizontal	Pass

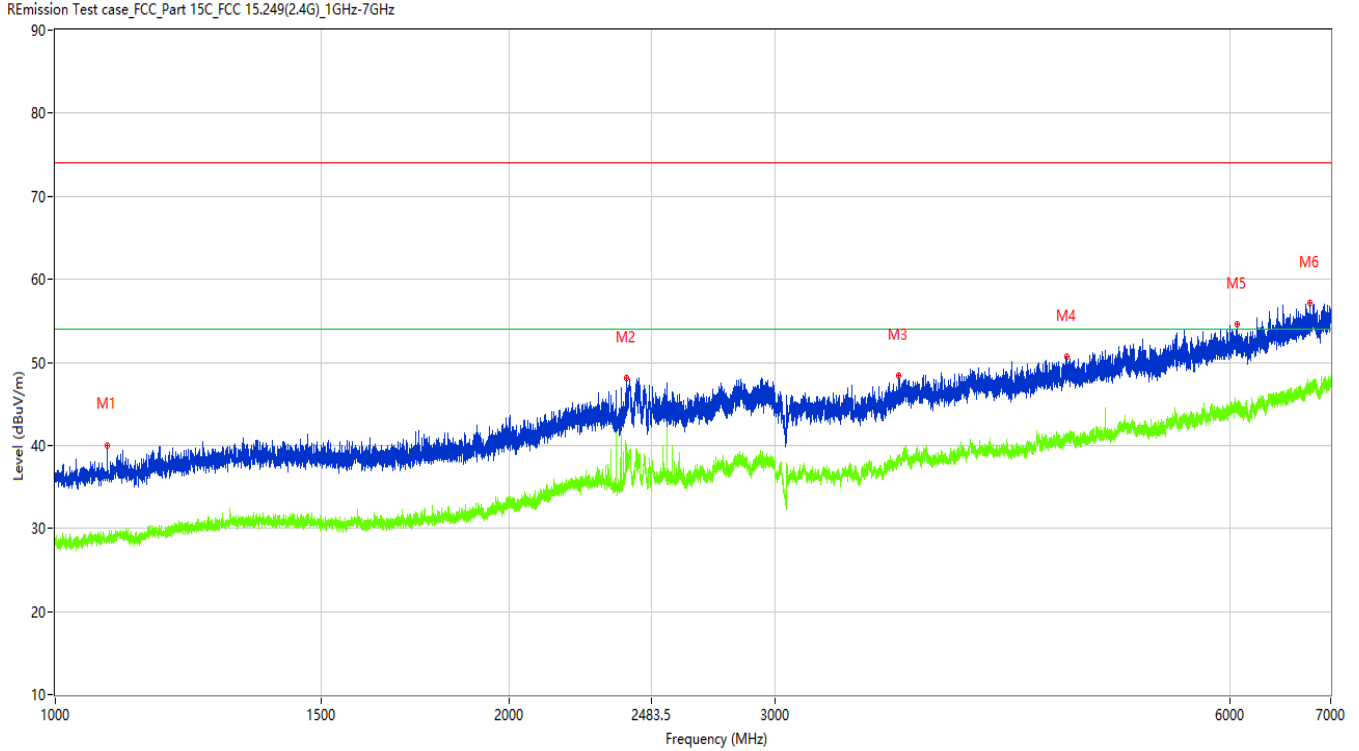
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Figure 22: Test plots of Field strength of harmonics, 2480MHz, 1GHz-7GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1083.000	40.03	-14.25	74.0	33.97	Peak	144.80	100	Vertical	Pass
1**	1083.000	28.43	-14.25	54.0	25.57	AV	144.80	100	Vertical	Pass
2	2392.250	48.05	-4.16	74.0	25.95	Peak	48.30	100	Vertical	Pass
2**	2392.250	38.83	-4.16	54.0	15.17	AV	48.30	100	Vertical	Pass
3	3623.500	48.41	-1.61	74.0	25.59	Peak	248.40	100	Vertical	Pass
3**	3623.500	38.80	-1.61	54.0	15.20	AV	248.40	100	Vertical	Pass
4	4680.000	50.72	-0.13	74.0	23.28	Peak	147.20	100	Vertical	Pass
4**	4680.000	40.70	-0.13	54.0	13.30	AV	147.20	100	Vertical	Pass
5	6067.000	54.61	2.87	74.0	19.39	Peak	164.70	100	Vertical	Pass
5**	6067.000	43.87	2.87	54.0	10.13	AV	164.70	100	Vertical	Pass
6	6785.500	57.18	5.20	74.0	16.82	Peak	53.00	100	Vertical	Pass
6**	6785.500	47.22	5.20	54.0	6.78	AV	53.00	100	Vertical	Pass

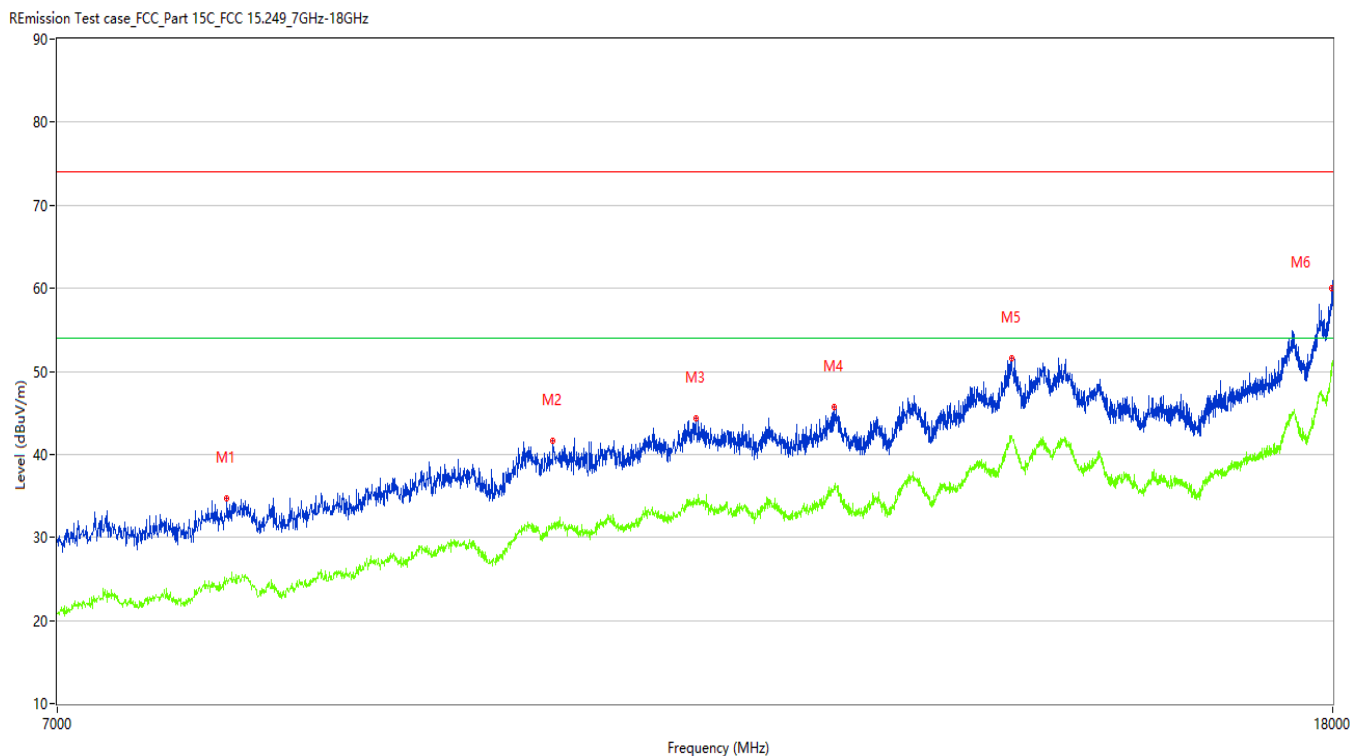
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Figure 23: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7937.750	34.63	3.27	74.0	39.37	Peak	360.00	100	Horizontal	Pass
1**	7937.750	25.03	3.27	54.0	28.97	AV	360.00	100	Horizontal	Pass
2	10104.750	41.59	9.49	74.0	32.41	Peak	1.20	100	Horizontal	Pass
2**	10104.750	31.36	9.49	54.0	22.64	AV	1.20	100	Horizontal	Pass
3	11232.250	44.38	11.66	74.0	29.62	Peak	190.50	100	Horizontal	Pass
3**	11232.250	34.56	11.66	54.0	19.44	AV	190.50	100	Horizontal	Pass
4	12447.750	45.69	12.49	74.0	28.31	Peak	360.00	100	Horizontal	Pass
4**	12447.750	36.08	12.49	54.0	17.92	AV	360.00	100	Horizontal	Pass
5	14188.500	51.52	19.75	74.0	22.48	Peak	190.50	100	Horizontal	Pass
5**	14188.500	42.29	19.75	54.0	11.71	AV	190.50	100	Horizontal	Pass
6	17991.750	60.08	27.41	74.0	13.92	Peak	125.80	100	Horizontal	Pass
6**	17991.750	50.92	27.41	54.0	3.08	AV	125.80	100	Horizontal	Pass

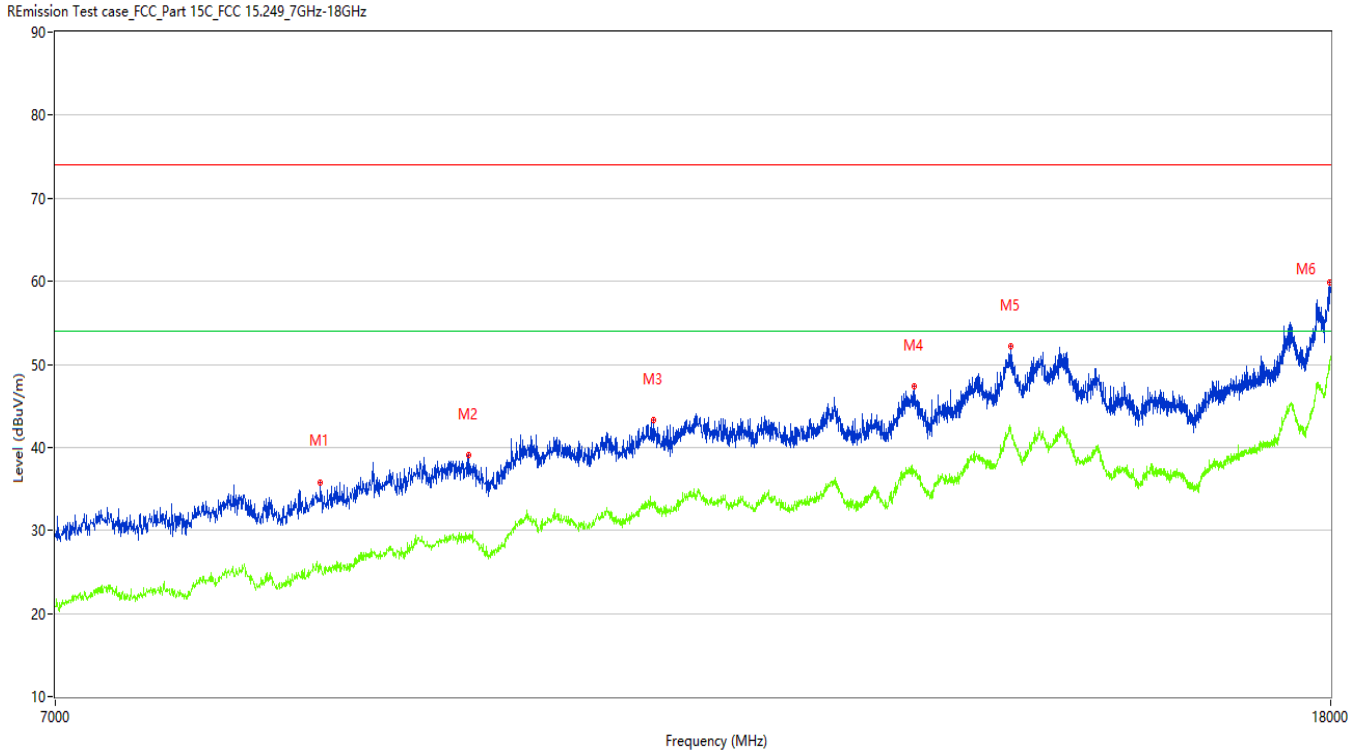
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Figure 24: Test plots of Field strength of harmonics, 2480MHz, 7GHz-18GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8518.000	35.83	3.85	74.0	38.17	Peak	266.90	100	Vertical	Pass
1**	8518.000	25.36	3.85	54.0	28.64	AV	266.90	100	Vertical	Pass
2	9508.000	39.08	7.97	74.0	34.92	Peak	266.90	100	Vertical	Pass
2**	9508.000	29.50	7.97	54.0	24.50	AV	266.90	100	Vertical	Pass
3	10899.500	43.31	11.11	74.0	30.69	Peak	206.20	100	Vertical	Pass
3**	10899.500	33.29	11.11	54.0	20.71	AV	206.20	100	Vertical	Pass
4	13223.250	47.34	14.16	74.0	26.66	Peak	360.00	100	Vertical	Pass
4**	13223.250	37.32	14.16	54.0	16.68	AV	360.00	100	Vertical	Pass
5	14205.000	52.12	19.38	74.0	21.88	Peak	266.90	100	Vertical	Pass
5**	14205.000	42.03	19.38	54.0	11.97	AV	266.90	100	Vertical	Pass
6	17980.750	59.80	26.73	74.0	14.20	Peak	206.20	100	Vertical	Pass
6**	17980.750	50.01	26.73	54.0	3.99	AV	206.20	100	Vertical	Pass

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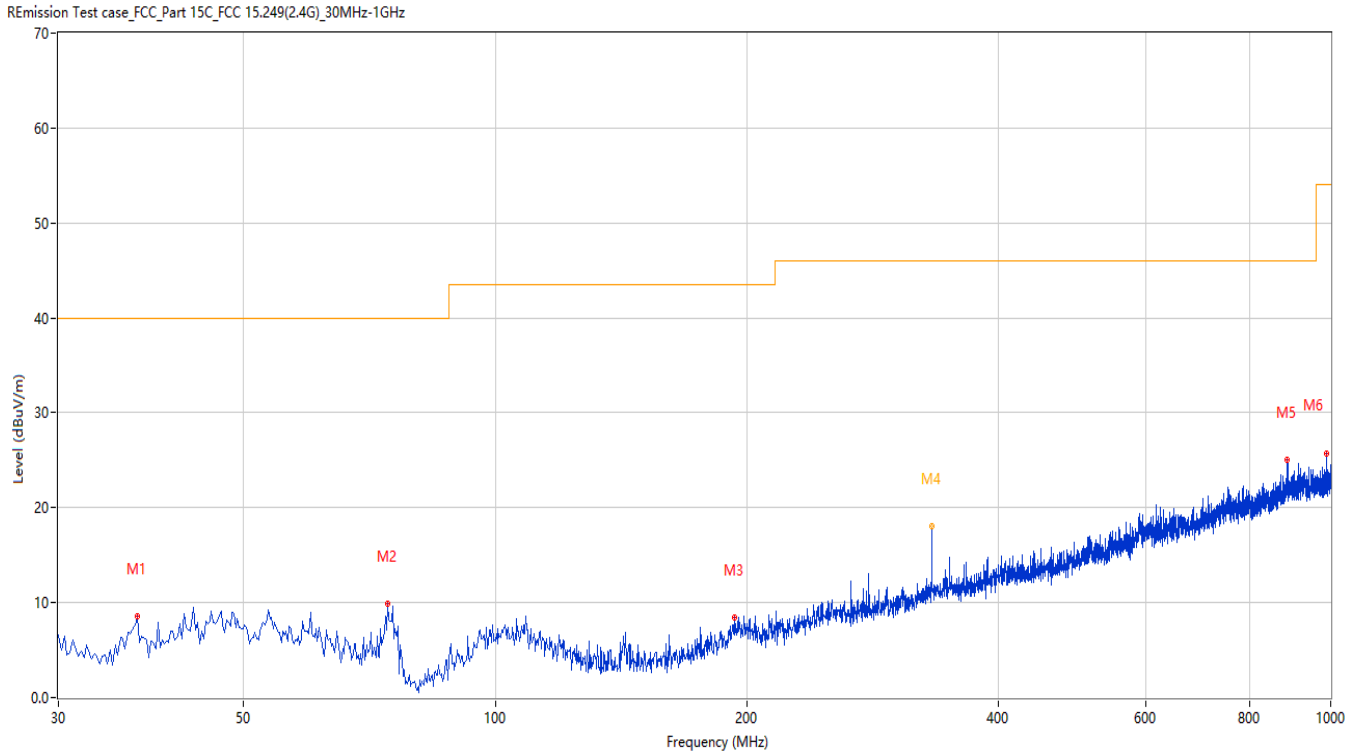
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Series model (RF426B-16):

Figure 25: Test plots of Field strength of harmonics, 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	37.273	8.63	-27.28	40.0	31.37	Peak	3.40	100	Horizontal	Pass
2	74.366	9.85	-30.84	40.0	30.15	Peak	144.90	100	Horizontal	Pass
3	193.647	8.50	-26.40	43.5	35.00	Peak	163.20	100	Horizontal	Pass
4	333.274	20.68	-22.51	46.0	25.32	Peak	360.00	205	Horizontal	Pass
4*	333.274	18.04	-22.51	46.0	27.96	QP	360.00	205	Horizontal	Pass
5	887.751	25.05	-10.02	46.0	20.95	Peak	271.90	100	Horizontal	Pass
6	988.605	25.67	-8.61	54.0	28.33	Peak	321.40	100	Horizontal	Pass

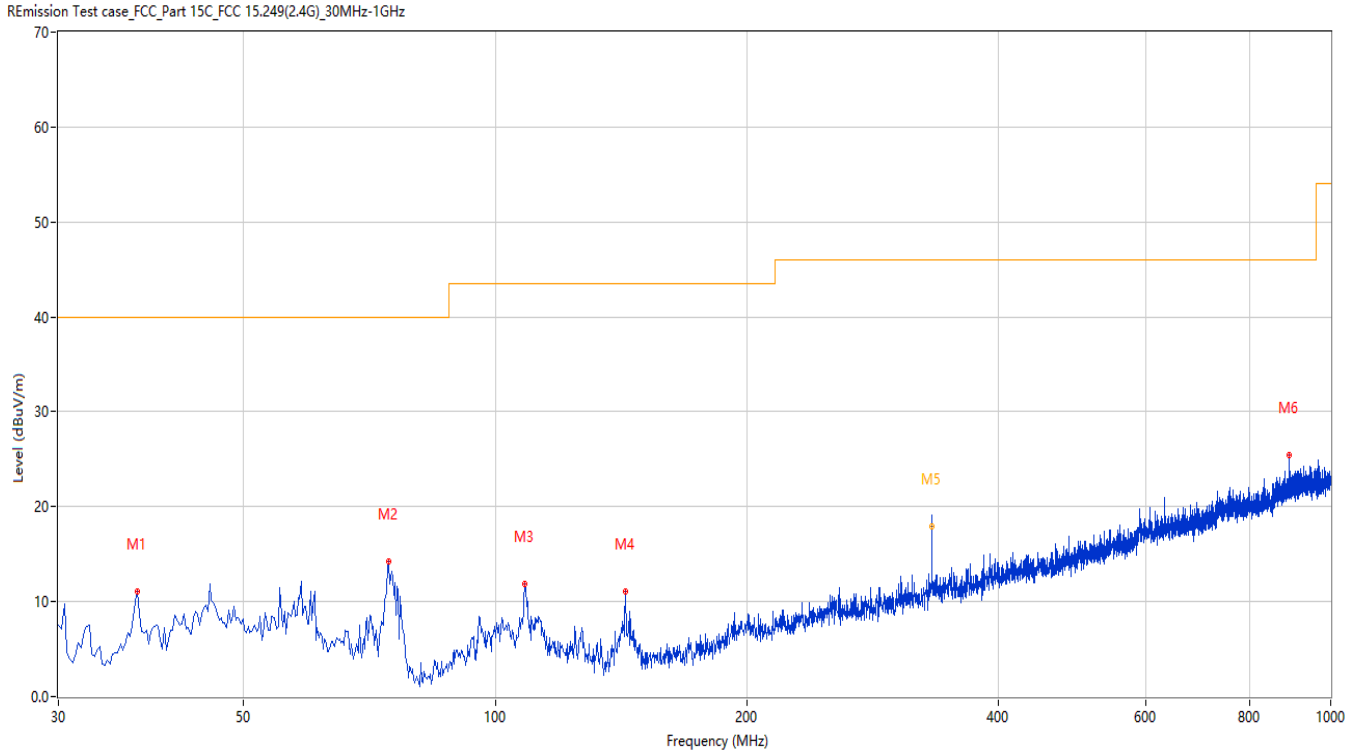
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Figure 26: Test plots of Field strength of harmonics, 30MHz-1GHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.273	11.11	-27.28	40.0	28.89	Peak	11.60	100	Vertical	Pass
2	74.609	14.20	-30.90	40.0	25.80	Peak	56.30	100	Vertical	Pass
3	108.550	11.83	-26.80	43.5	31.67	Peak	104.60	100	Vertical	Pass
4	143.219	11.10	-29.98	43.5	32.40	Peak	26.90	100	Vertical	Pass
5	333.271	20.65	-22.53	46.0	25.35	Peak	292.40	284	Vertical	Pass
5*	333.271	17.93	-22.53	46.0	28.07	QP	292.40	284	Vertical	Pass
6	893.084	25.42	-9.91	46.0	20.58	Peak	250.80	100	Vertical	Pass

Note:

1. All the models were tested and only the worst data was recorded in the report.
2. Series model (RF426B-16): Sensitive test item-30MHz-1GHz of Radiated Emission was recorded in the report.

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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

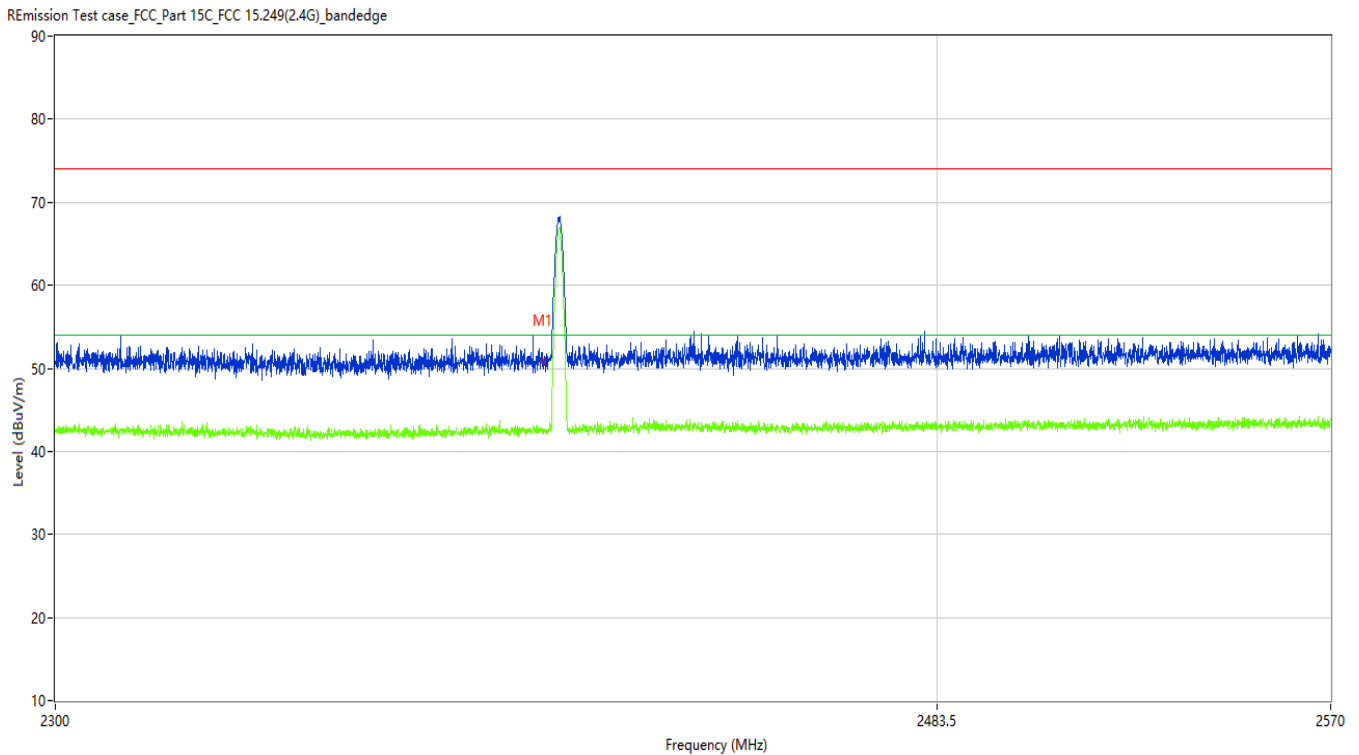
Test Channel : Low/High

Operation Mode : A.i/iii

Ambient temperature : 23.4°C

Relative humidity : 50%

Figure 27: 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	50.98	-9.87	74.0	23.02	Peak	192.09	100	Horizontal	Pass
1**	2400.000	42.51	-9.87	54.0	11.49	AV	192.09	100	Horizontal	Pass

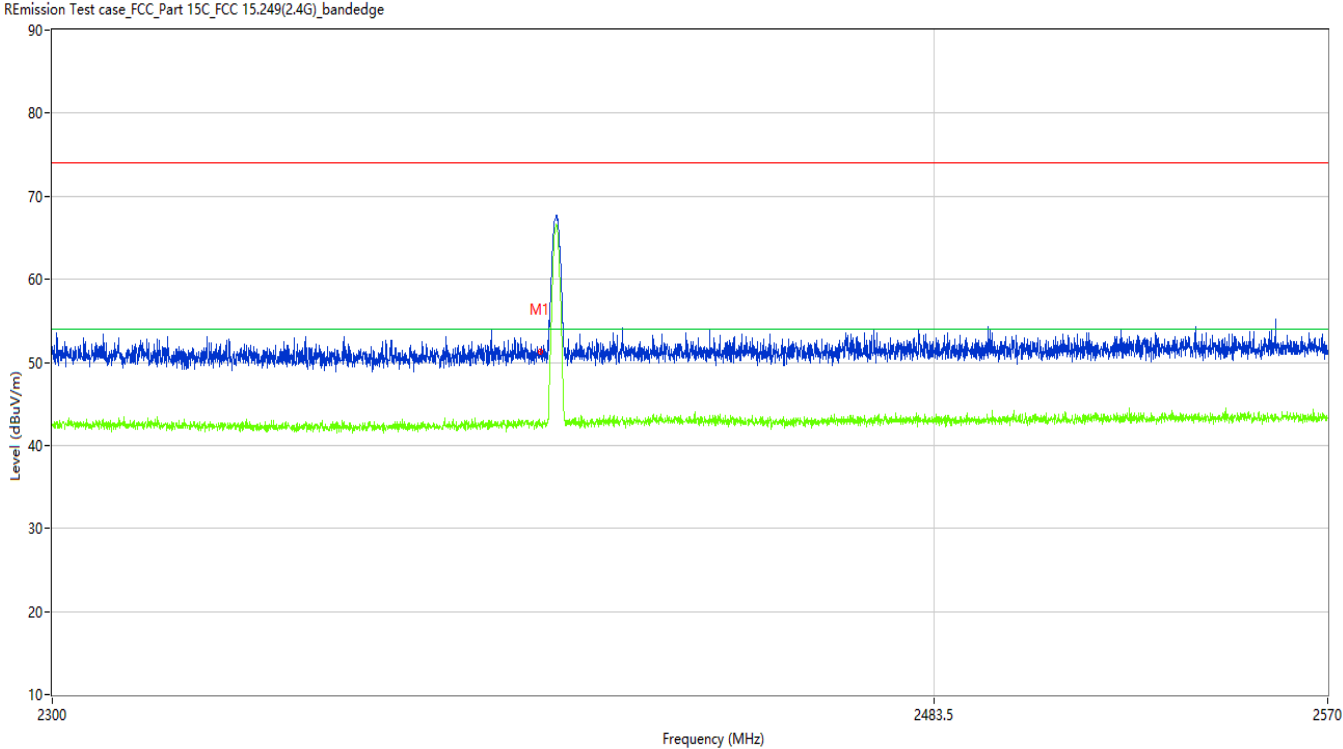
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Figure 28: Test plots of Band Edge, 2403MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	51.18	-9.87	74.0	22.82	Peak	119.65	100	Vertical	Pass
1**	2400.000	42.39	-9.87	54.0	11.61	AV	119.65	100	Vertical	Pass

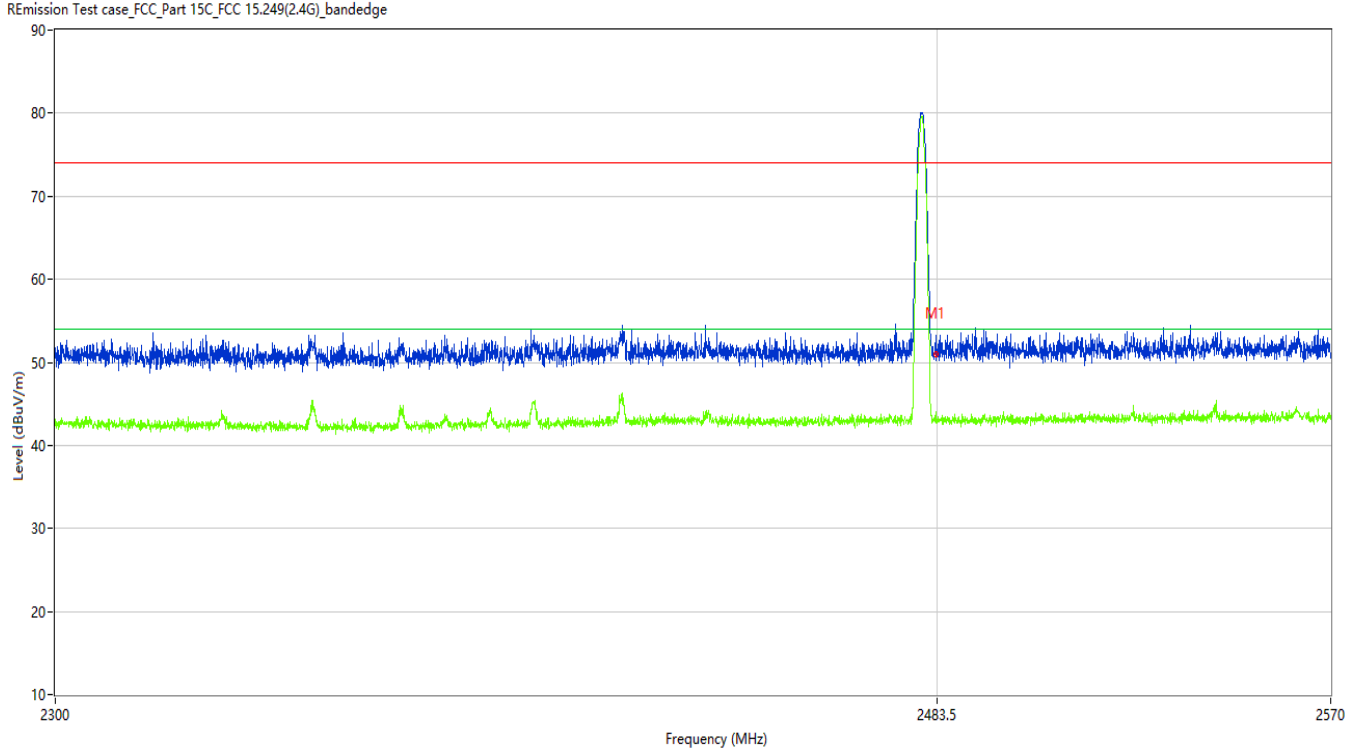
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Figure 29: Test plots of Band Edge, 2480MHz, Horizontal polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	50.93	-9.51	74.0	23.07	Peak	240.65	100	Horizontal	Pass
1**	2483.500	42.88	-9.51	54.0	11.12	AV	240.65	100	Horizontal	Pass

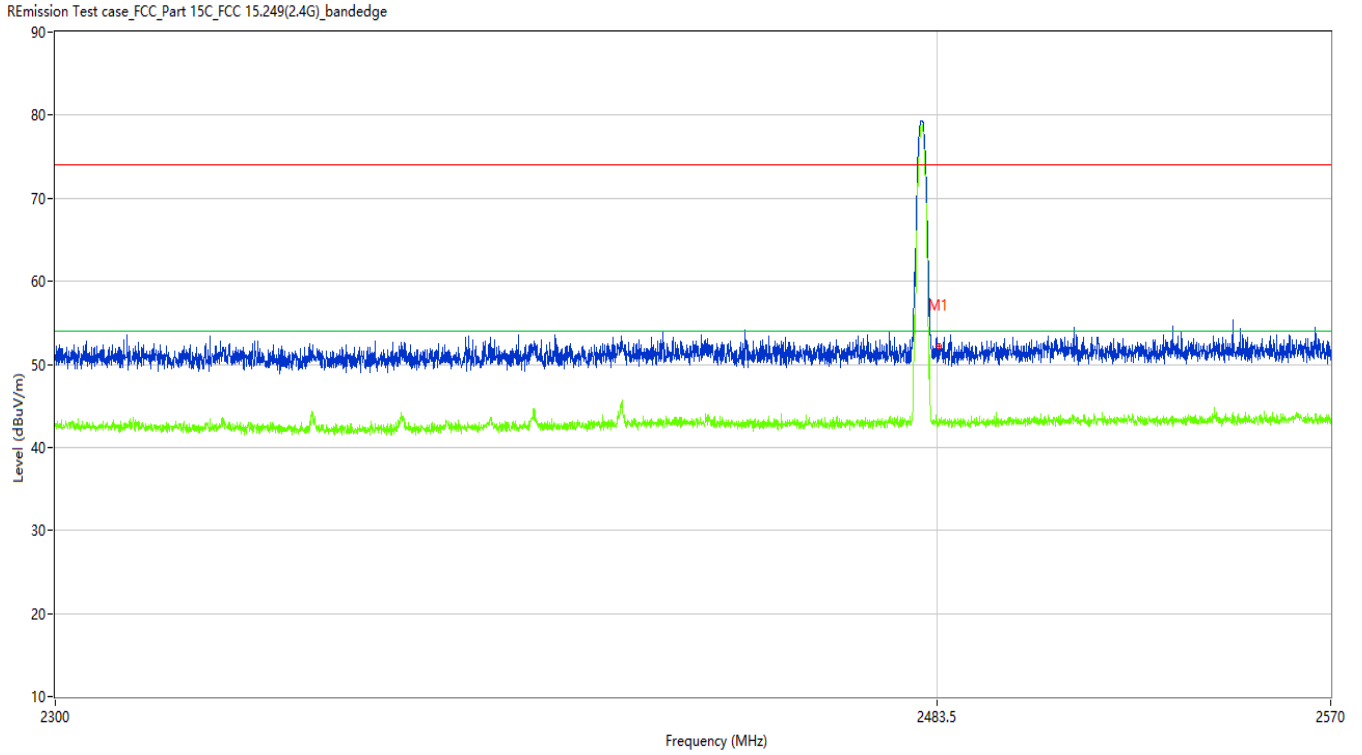
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Figure 30: Test plots of Band Edge, 2480MHz, Vertical polarization



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	52.36	-9.51	74.0	21.64	Peak	256.84	100	Vertical	Pass
1**	2483.500	43.17	-9.51	54.0	10.83	AV	256.84	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	1.038	0.957
	2442	1.037	0.957
	2480	1.015	0.938

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Figure 31: The plots of 20dB Bandwidth and 99% Bandwidth, 2403MHz

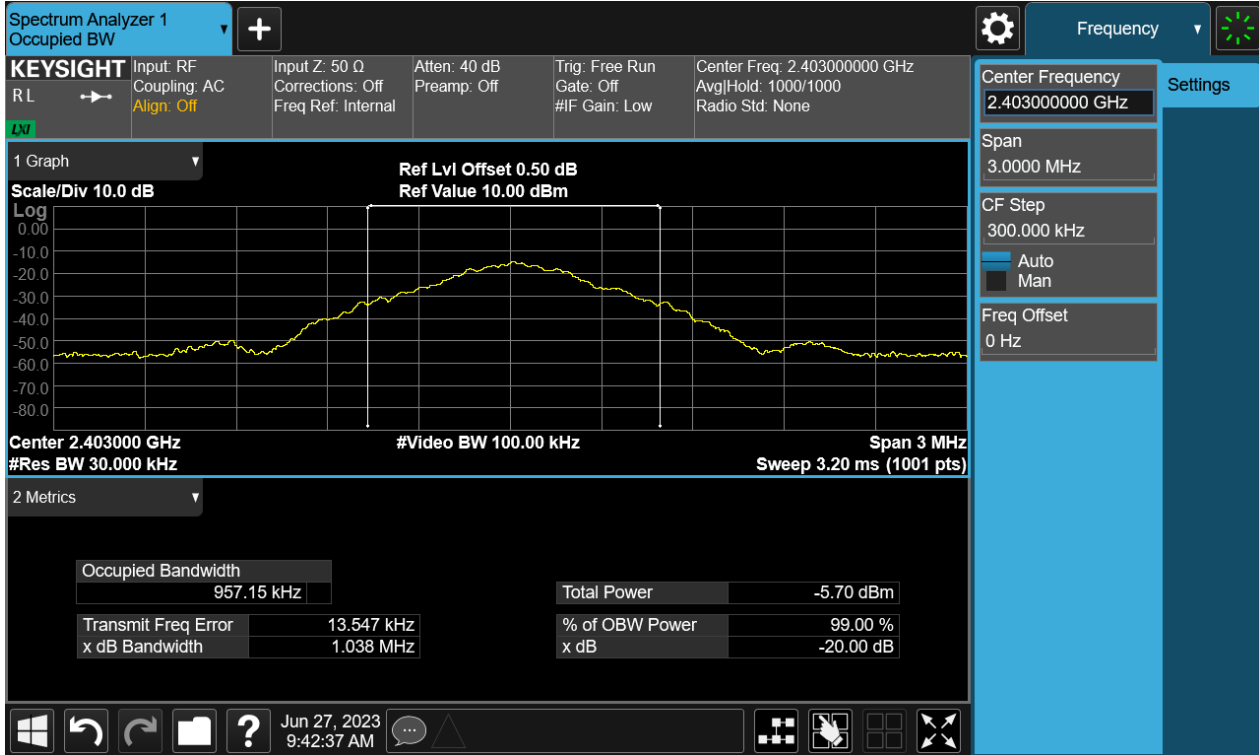
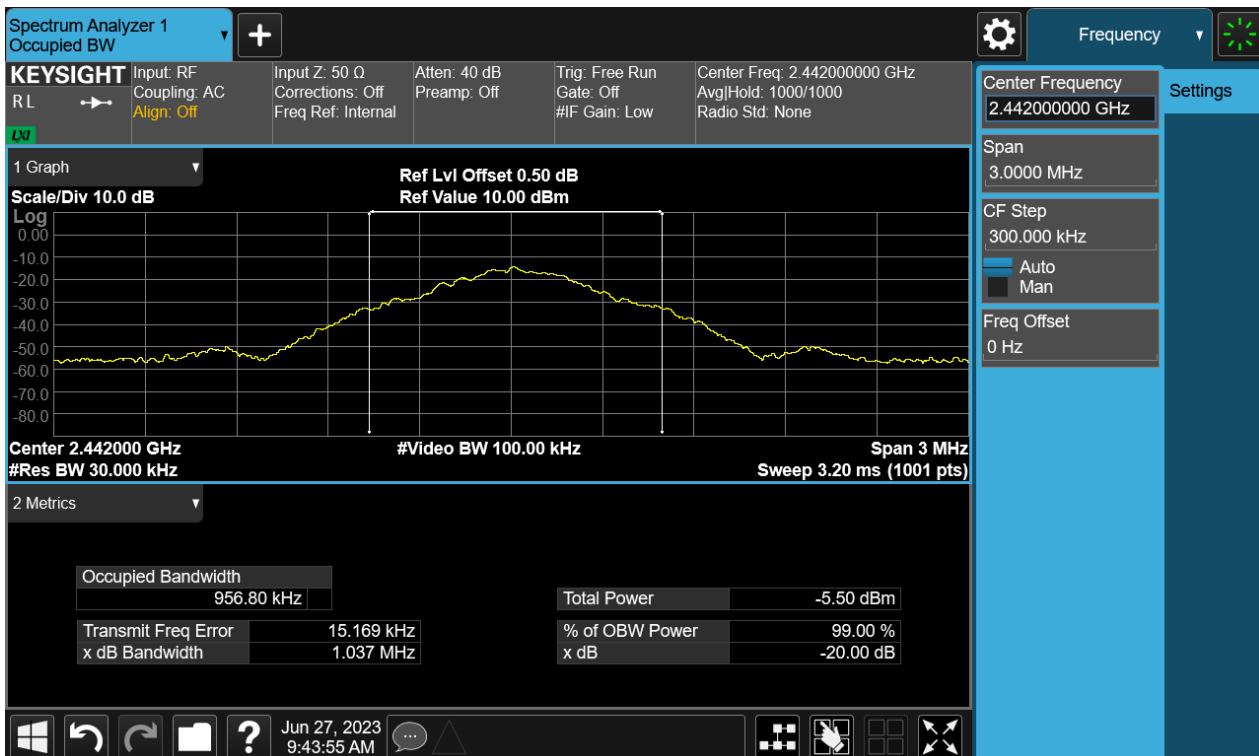


Figure 32: The plots of 20dB Bandwidth and 99% Bandwidth, 2442MHz



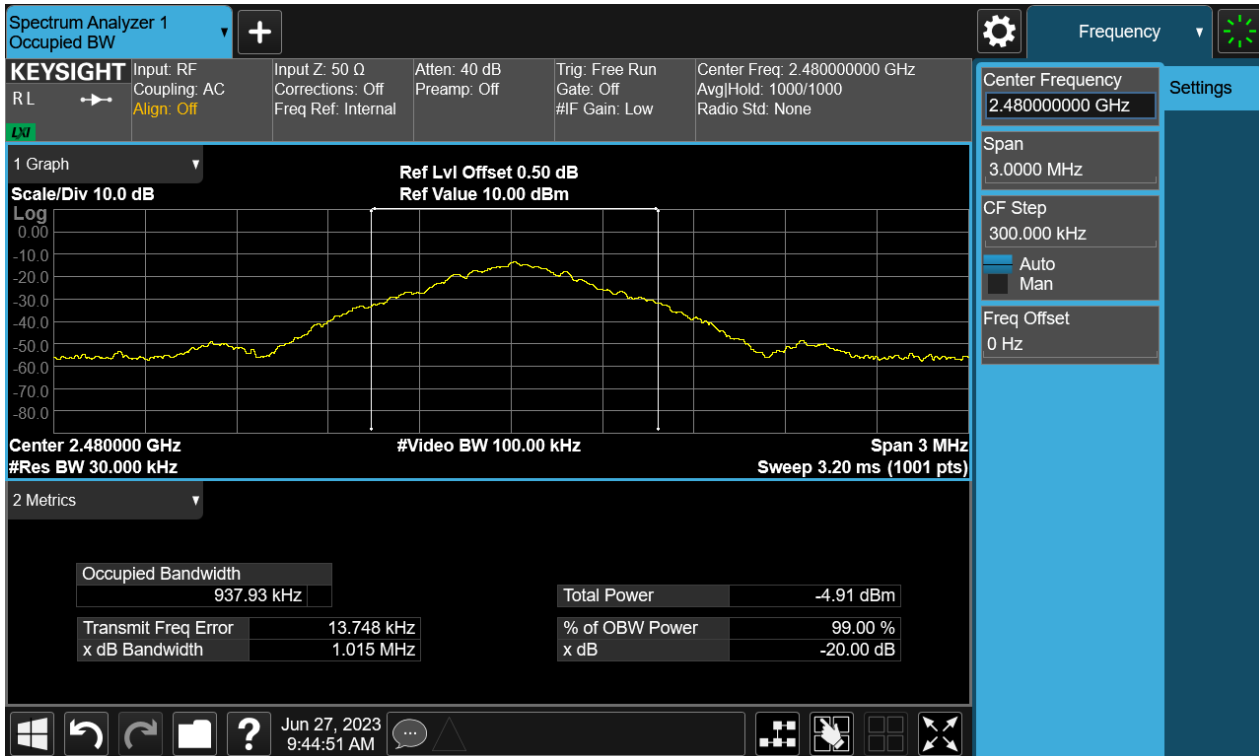
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Figure 33: The plots of 20dB Bandwidth and 99% Bandwidth, 2480MHz



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5 Appendixes

5.1 Photographs of the Sample

Test Model: RF426B-18



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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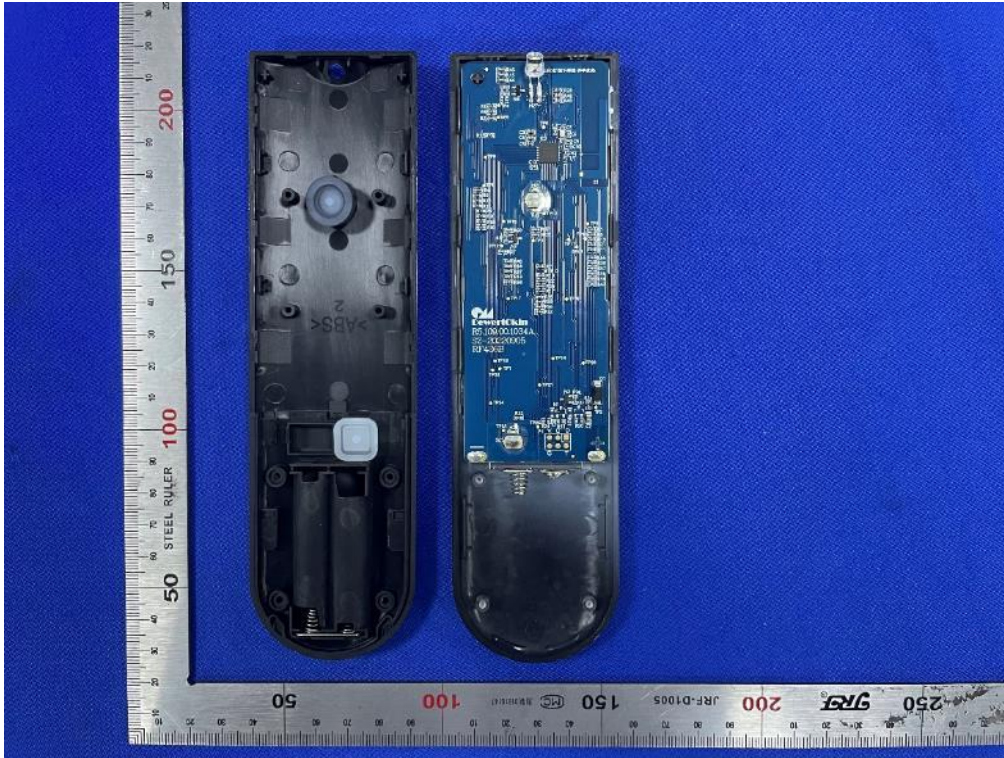
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Open of the sample



Internal-1 of the sample

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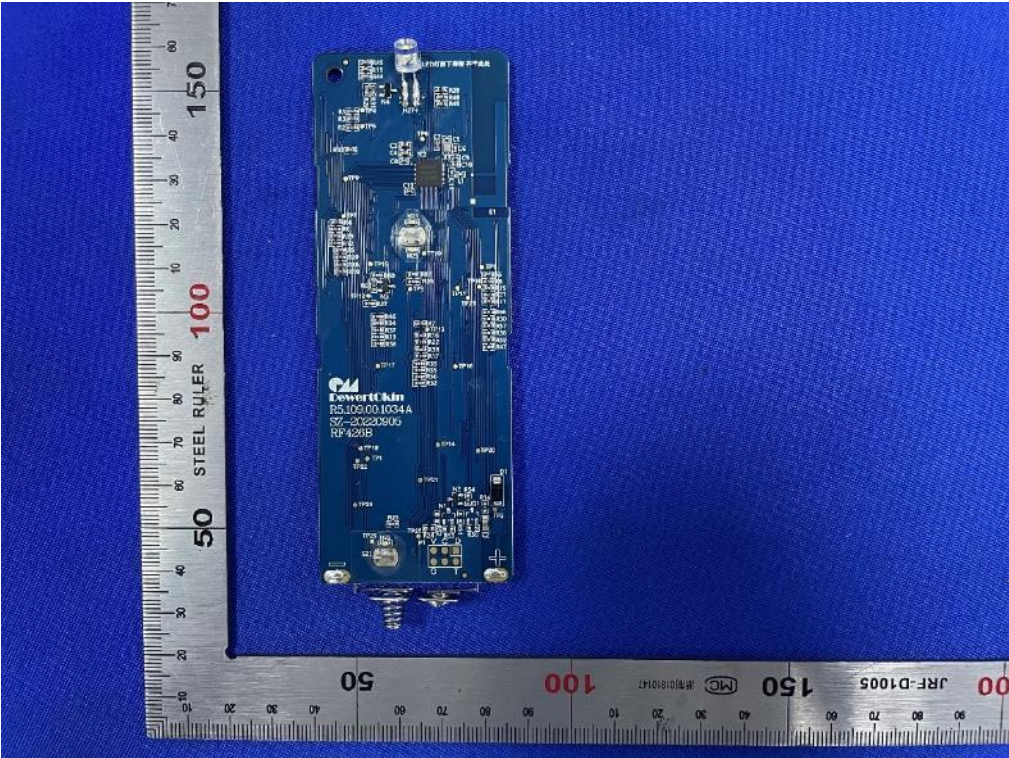
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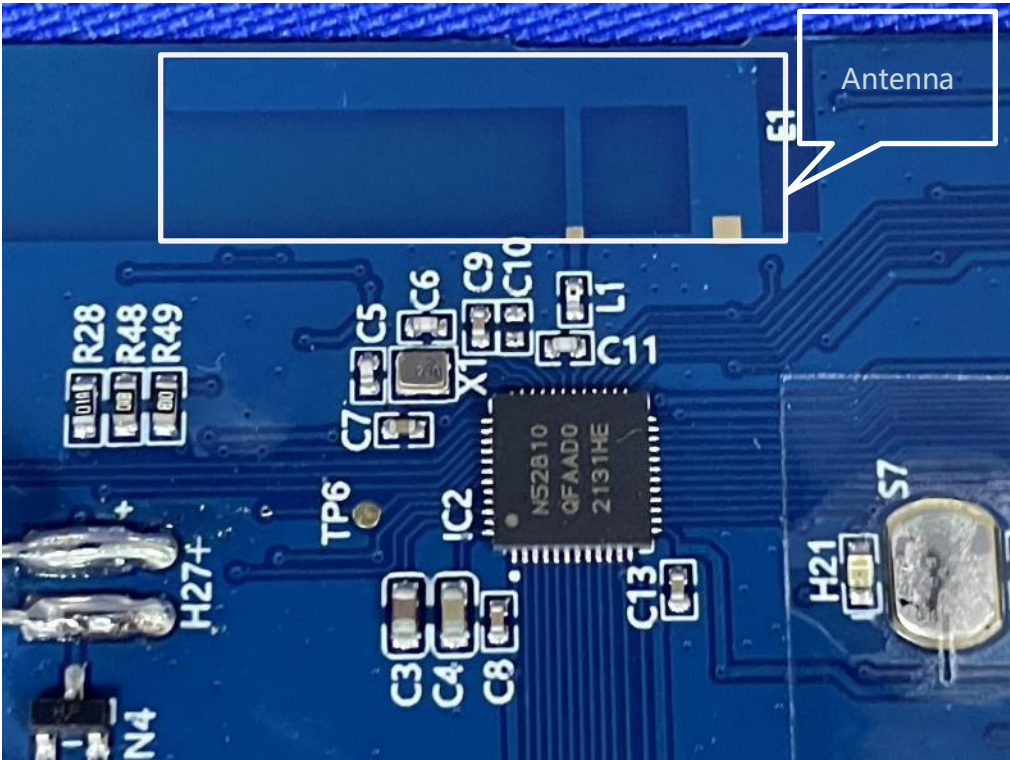
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Internal-2 of the sample



Antenna position of the sample

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Test Model: RF426B-16



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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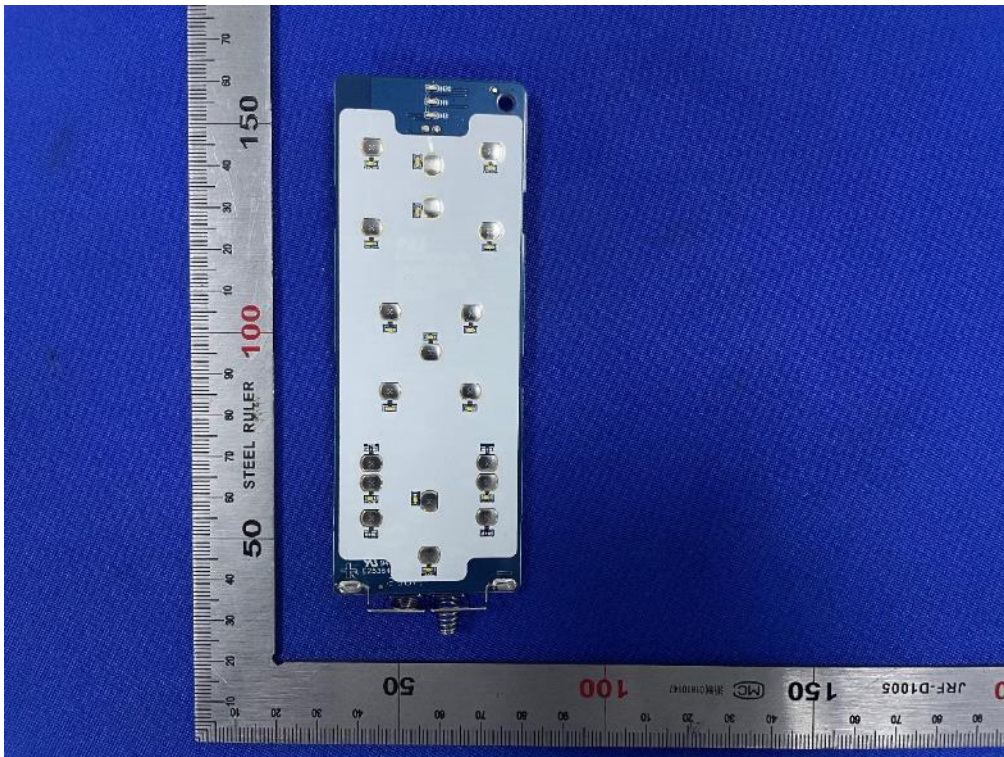
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Open of the sample



Internal-1 of the sample

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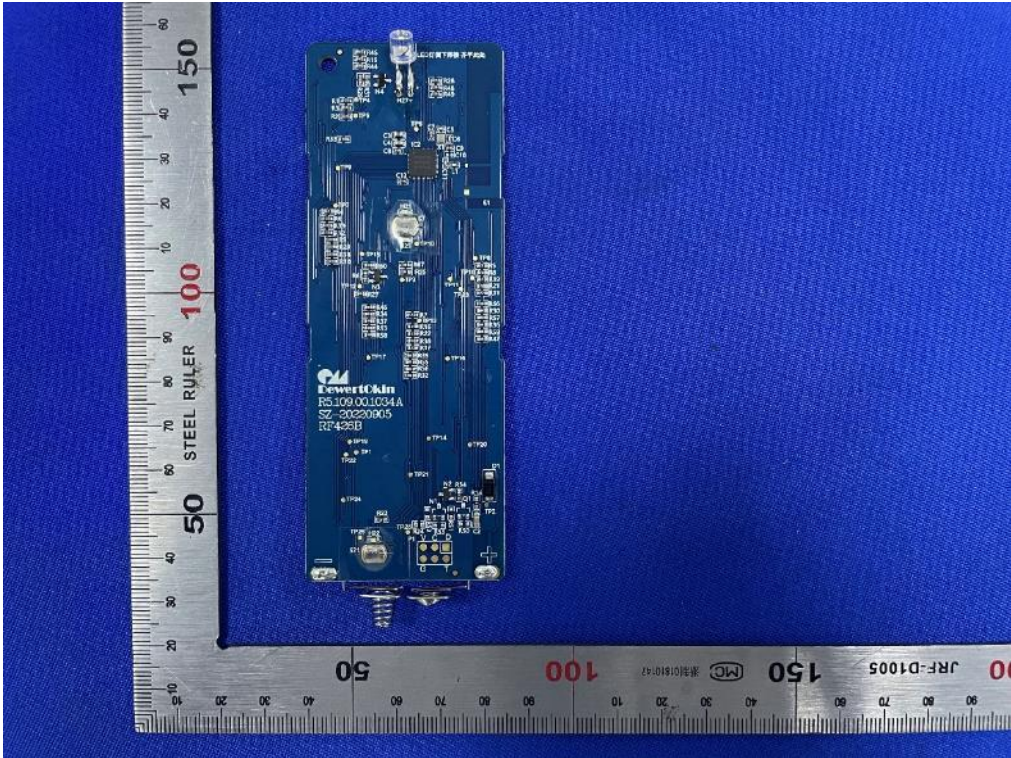
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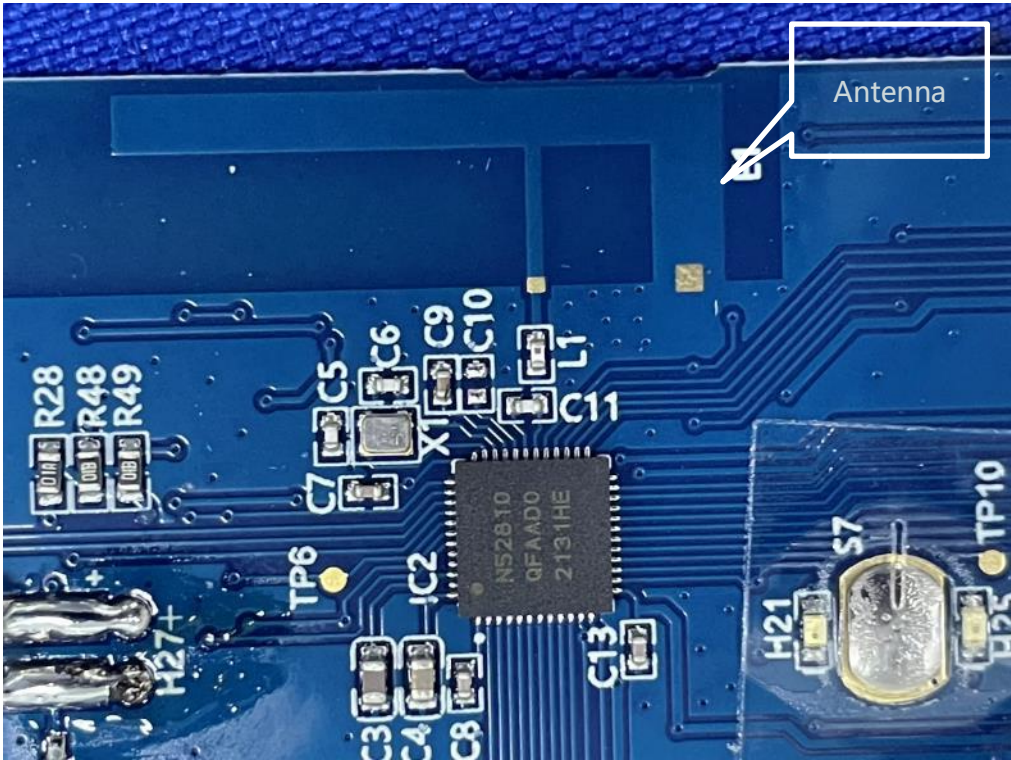
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Internal-2 of the sample



Antenna position of the sample

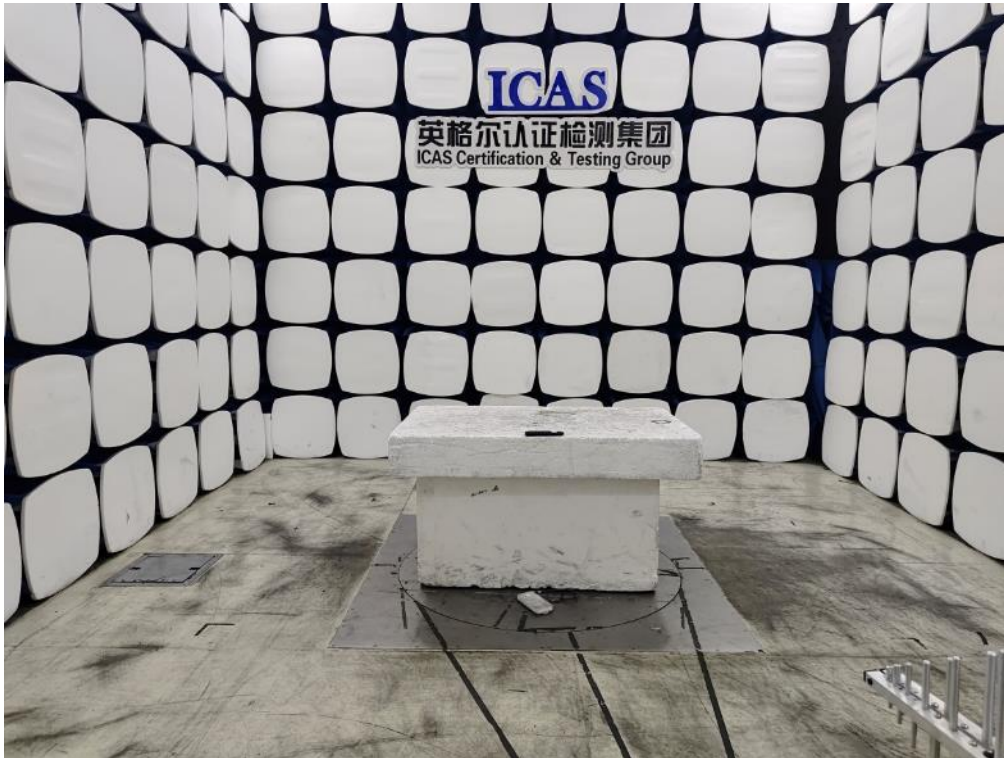
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5.2 Set-up for Spurious Emissions below 1GHz



5.3 Set-up for Spurious Emissions above 1GHz



End of the report