

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 1 of 49

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 No. : RF408A
Sample acquisition Method : Sent by Client
Sample No. : E22110068-01#04
E22110068-01#02
FCC ID : 2AK23-RF408A
ISED Number : 22406-RF408A

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 : 2022-11-18
Date of Test : 2022-11-18 ~ 2022-11-24
Date of Issue : 2022-11-25

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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(Authorized signatory: Guoyou Chi)

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 2 of 49

Contents

1	GENERAL INFORMATION	3
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
1.4	TEST METHODOLOGY	5
1.5	TEST SUMMARY	5
2	TEST CONDITION	6
2.1	ENVIRONMENTAL CONDITIONS	6
2.2	EQUIPMENT LIST	6
2.3	MEASUREMENT UNCERTAINTY	6
3	TEST SET-UP AND OPERATION MODES	7
3.1	DETAILS OF TEST MODE	7
3.2	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	7
3.3	SUPPORT SOFTWARE	7
3.4	TEST SETUP DIAGRAM	8
4	TEST RESULTS	10
4.1	TRANSMITTER REQUIREMENT & TEST SUITES	10
4.1.1	<i>Antenna Requirement</i>	10
4.1.2	<i>Radiated Emission</i>	11
4.1.3	<i>Band Edge</i>	36
4.1.4	<i>20dB Bandwidth and 99% Bandwidth</i>	40
5	APPENDIXES	43
5.1	PHOTOGRAPHS OF THE SAMPLE	43
5.2	SET-UP FOR SPURIOUS EMISSIONS BELOW 1GHZ	49
5.3	SET-UP FOR SPURIOUS EMISSIONS ABOVE 1GHZ	49

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 3 of 49

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.465, Xinnanyang Road, Wangjiangjing Development Zone, Xiuzhou District, Jiaxing City, Zhejiang Province, China.
Factory Company Name	DewertOkin Technology Group Co., Ltd.
Address	No.465, Xinnanyang Road, Wangjiangjing Development Zone, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

1.3 Details of EUT

Product Name	REMOTE CONTROL
Brand Name	N/A
Test Model No.	RF408A
FCC ID	2AK23-RF408A
ISED Number	22406- RF408A
Operation Frequency	2403MHz ~ 2480MHz
Maximum Field Strength	85.45dBuV/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 3.7V supply by battery
Hardware version	R5.109.00.834C

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 4 of 49

Software version	V1.0
Test SW Version	BL410_R; BL410_E
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		

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 5 of 49

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 3.7V supply)

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 6 of 49

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	2022-06-10	2023-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2022-08-02	2023-08-01
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2022-06-10	2023-06-09
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08	2023-06-07
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-08	2023-06-07
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2022-06-10	2023-06-09
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2022-06-10	2023-06-09
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2022-06-10	2023-06-09
Test Software	BL	BL410_E	N/A	N/A	N/A
Test Software	BL	BL410_R	N/A	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	< 1GHz	± 5.00 dB
	> 1GHz	± 4.88 dB
Occupied Channel Bandwidth		± 5 %

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 7 of 49

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

TEST REPORT

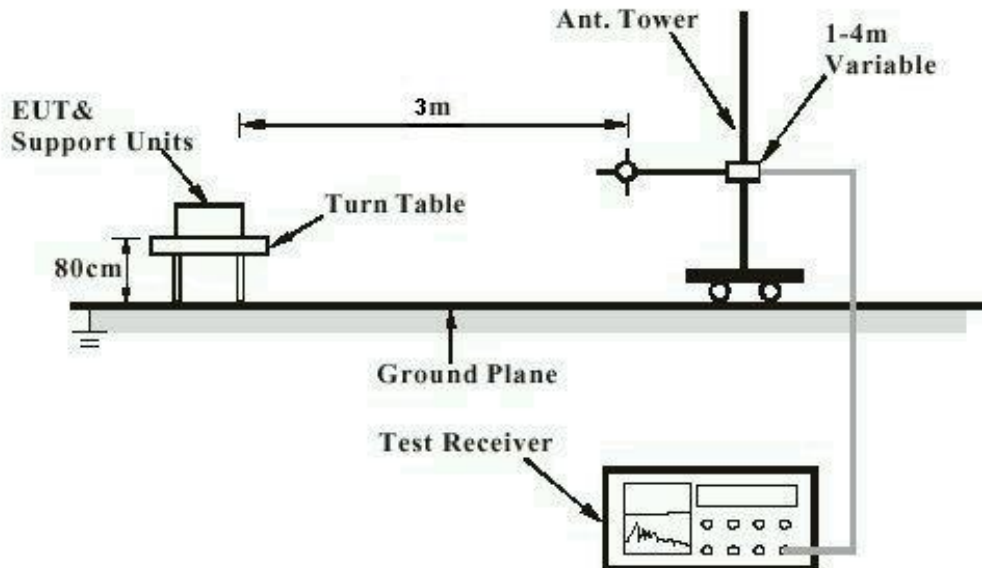
Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 8 of 49

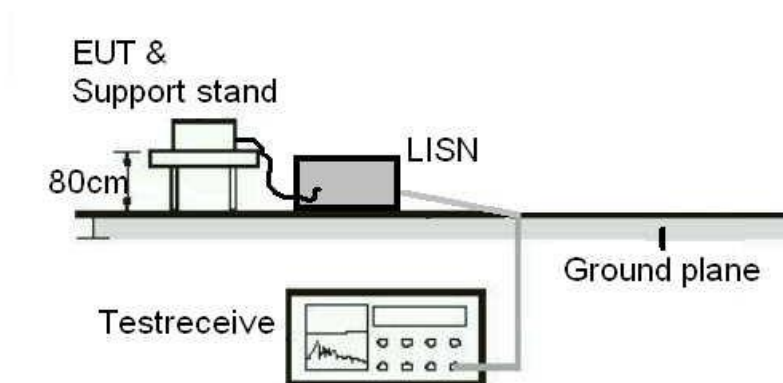
3.4 Test Setup Diagram

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 Conduction Test



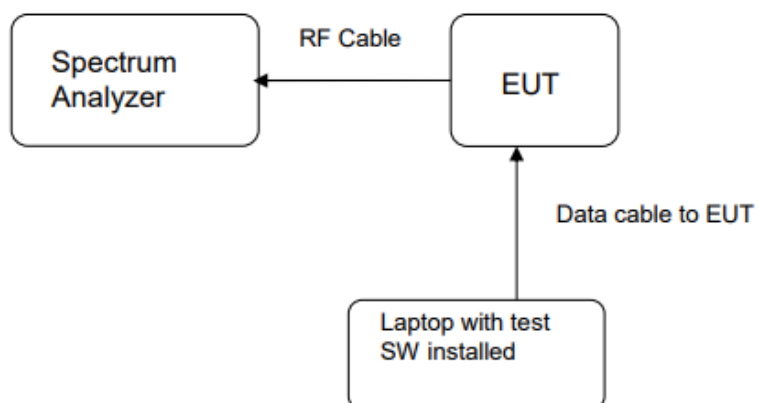
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 9 of 49

Diagram of Measurement Configuration for Transmitter Test



TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 10 of 49

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.

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 11 of 49

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	: 21°C
Relative humidity	: 55%

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.

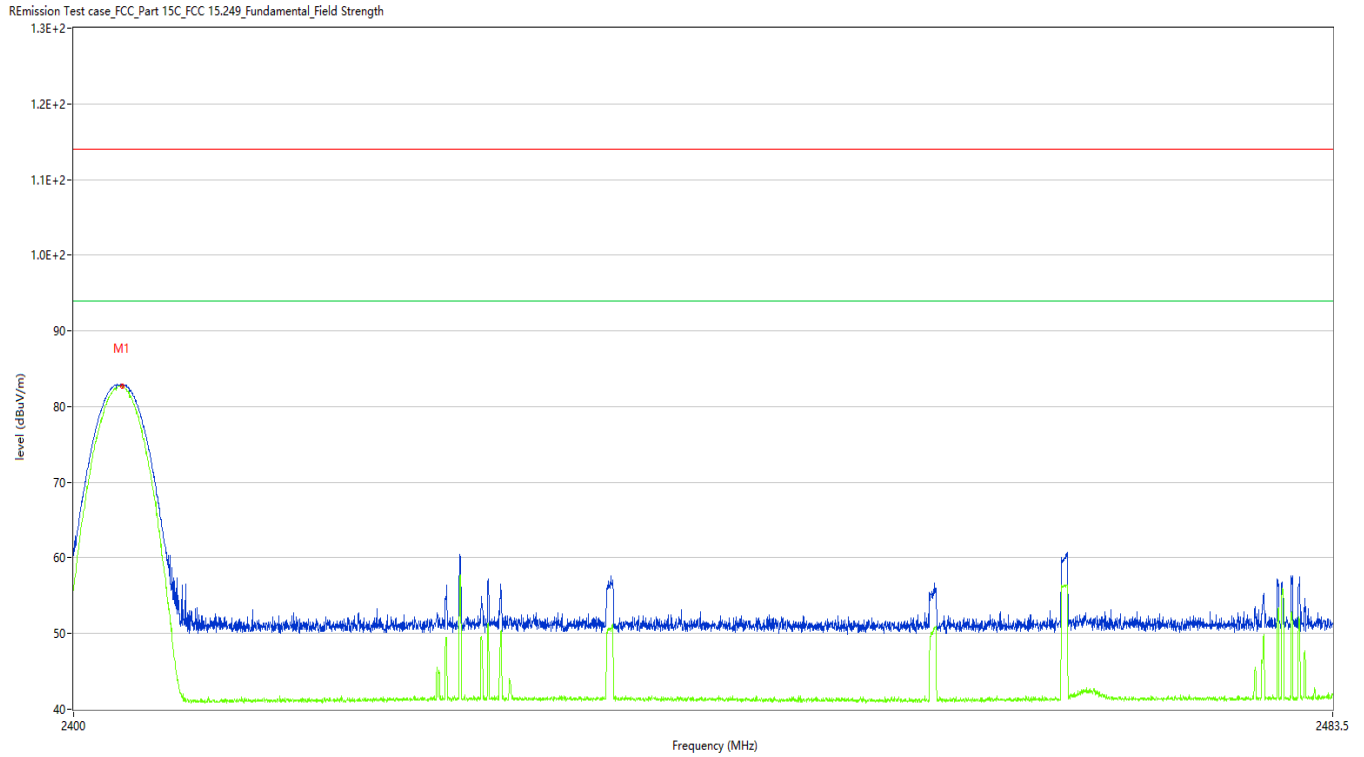
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 12 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2403.214	82.92	-9.81	114.0	-31.08	Peak	301.90	100	Horizontal	Pass
1**	2403.214	82.62	-9.81	94.0	-11.38	AV	301.90	100	Horizontal	Pass

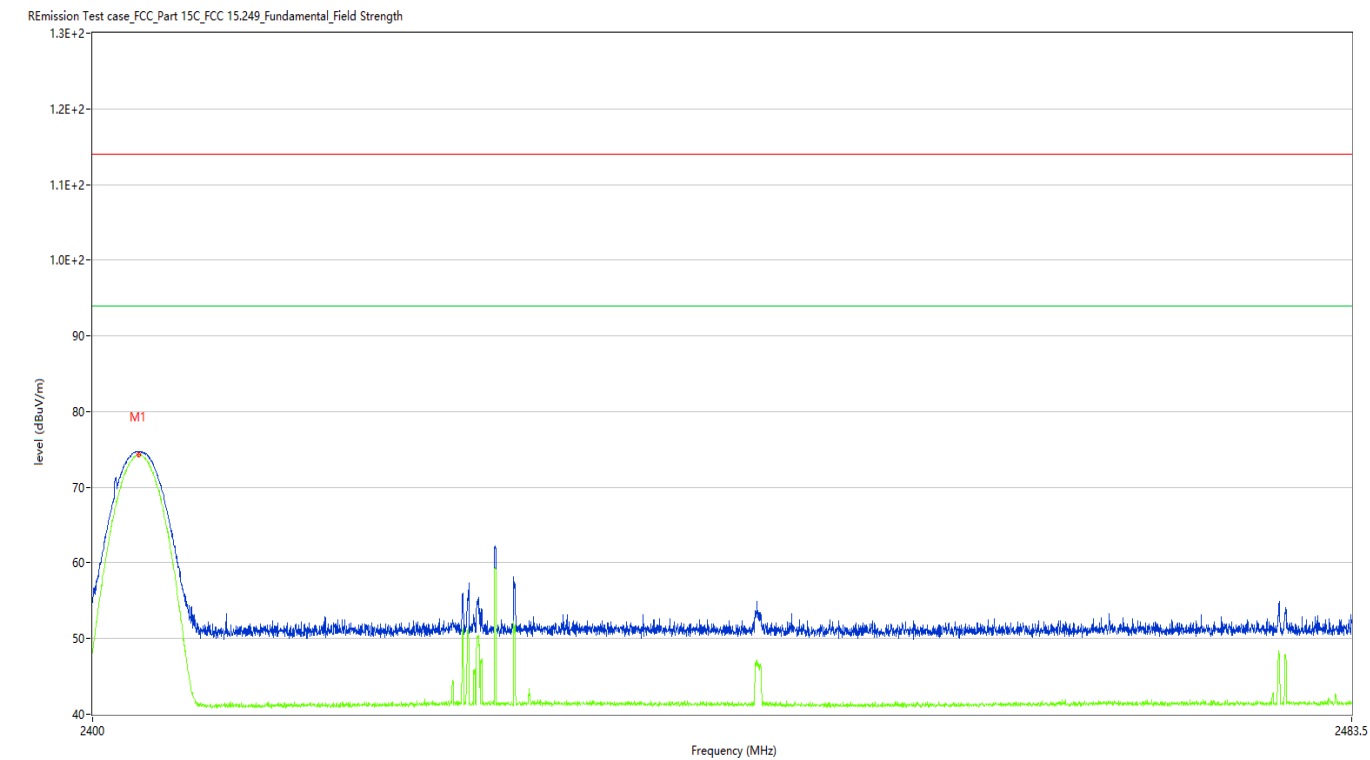
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 13 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2402.984	74.72	-9.82	114.0	-39.28	Peak	290.70	100	Vertical	Pass
1**	2402.984	74.27	-9.82	94.0	-19.73	AV	290.70	100	Vertical	Pass

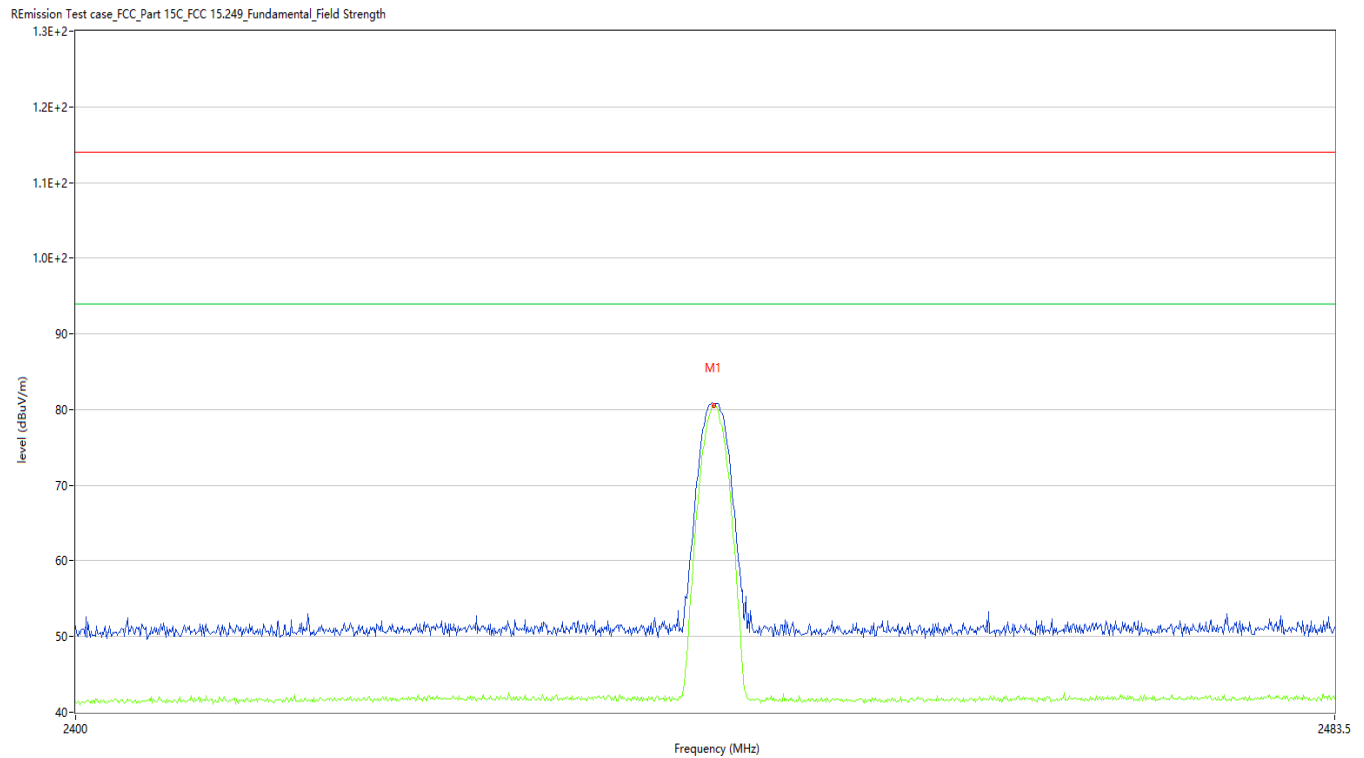
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 14 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2441.850	80.92	-9.61	114.0	-33.08	Peak	302.90	100	Horizontal	Pass
1**	2441.850	80.40	-9.61	94.0	-13.60	AV	302.90	100	Horizontal	Pass

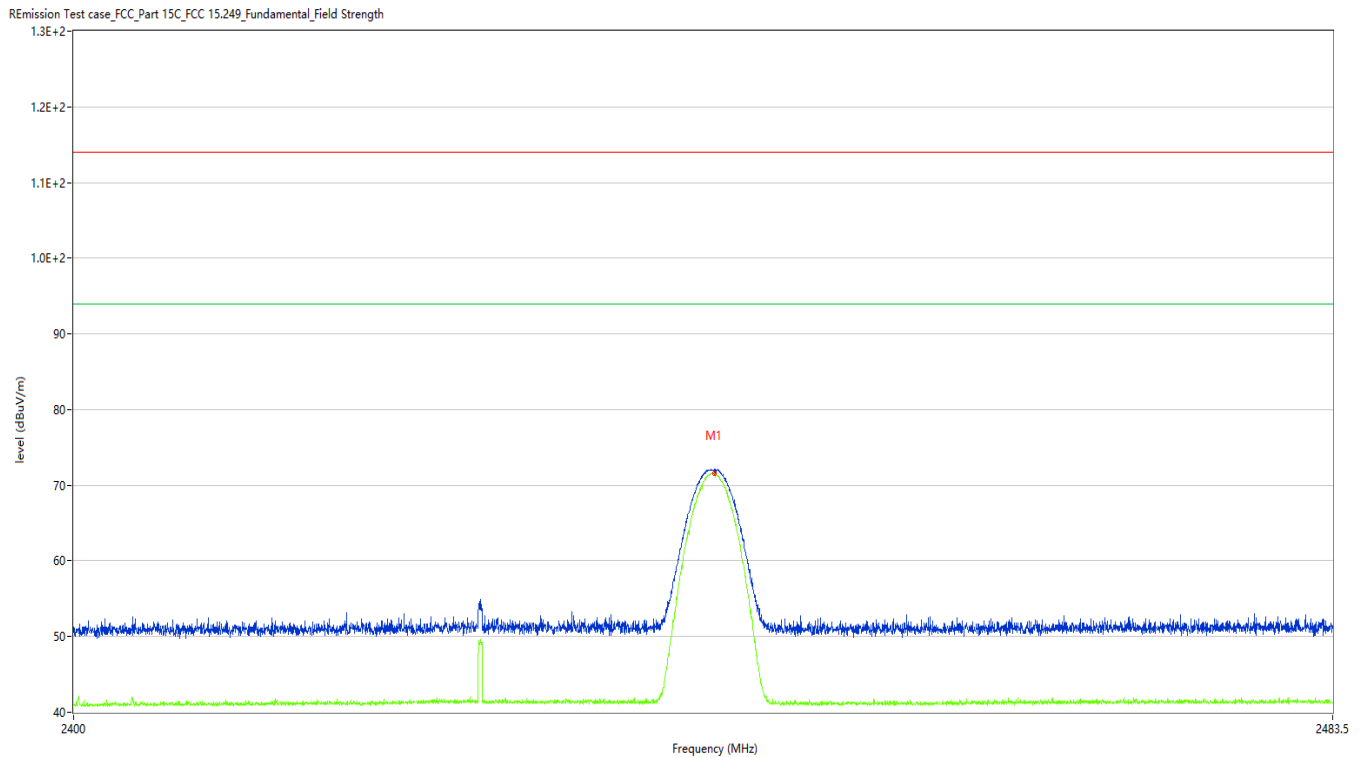
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 15 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2442.115	72.16	-9.62	114.0	-41.84	Peak	93.50	100	Vertical	Pass
1**	2442.115	71.54	-9.62	94.0	-22.46	AV	93.50	100	Vertical	Pass

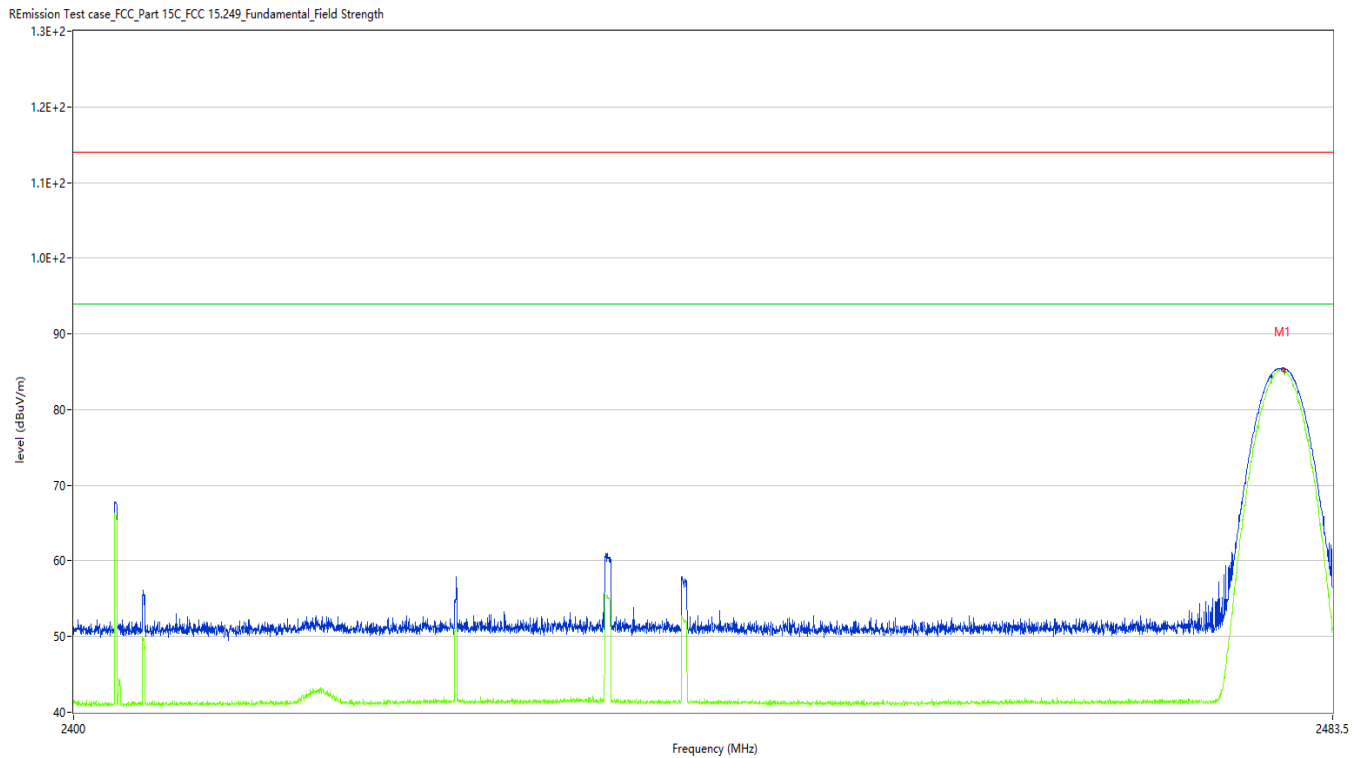
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 16 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480.182	85.45	-9.48	114.0	-28.55	Peak	271.40	100	Horizontal	Pass
1**	2480.182	85.20	-9.48	94.0	-8.80	AV	271.40	100	Horizontal	Pass

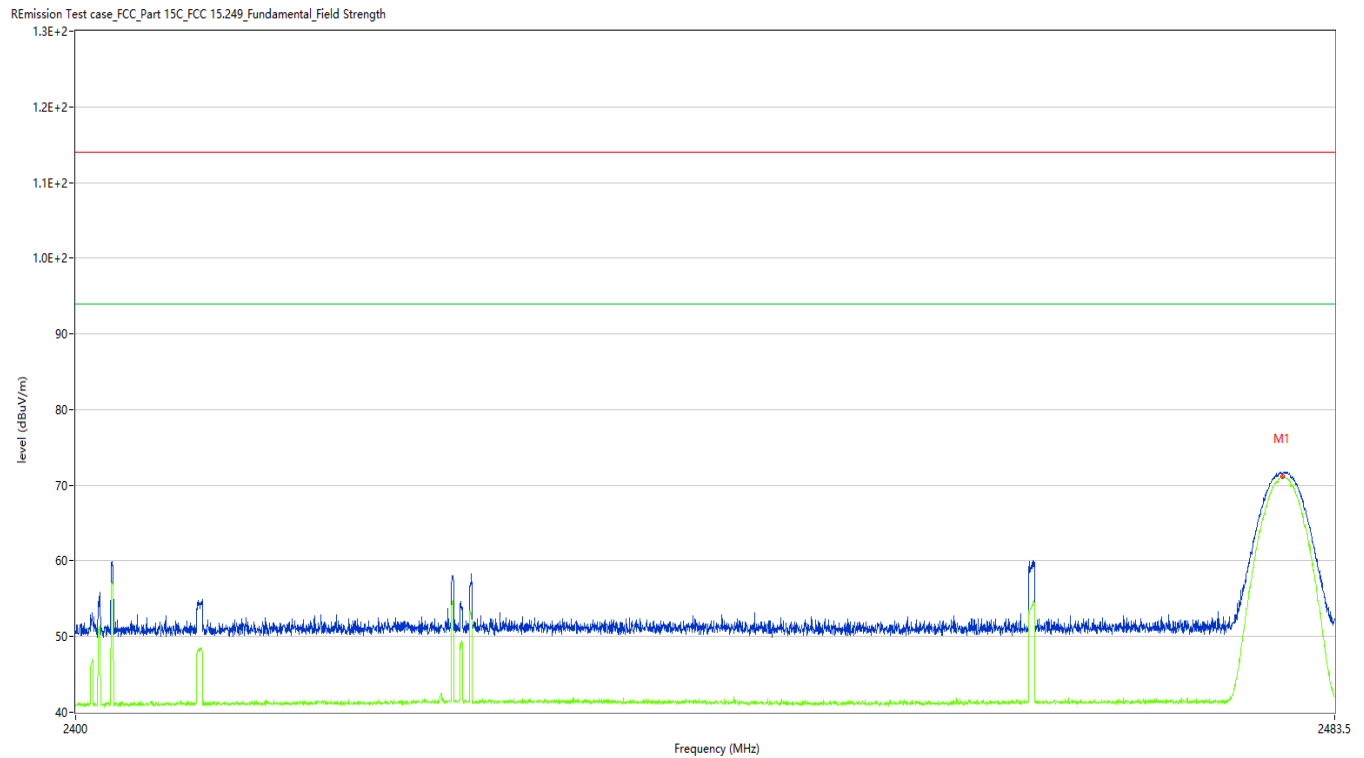
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 17 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2479.890	71.78	-9.48	114.0	-42.22	Peak	306.40	100	Vertical	Pass
1**	2479.890	71.01	-9.48	94.0	-22.99	AV	306.40	100	Vertical	Pass

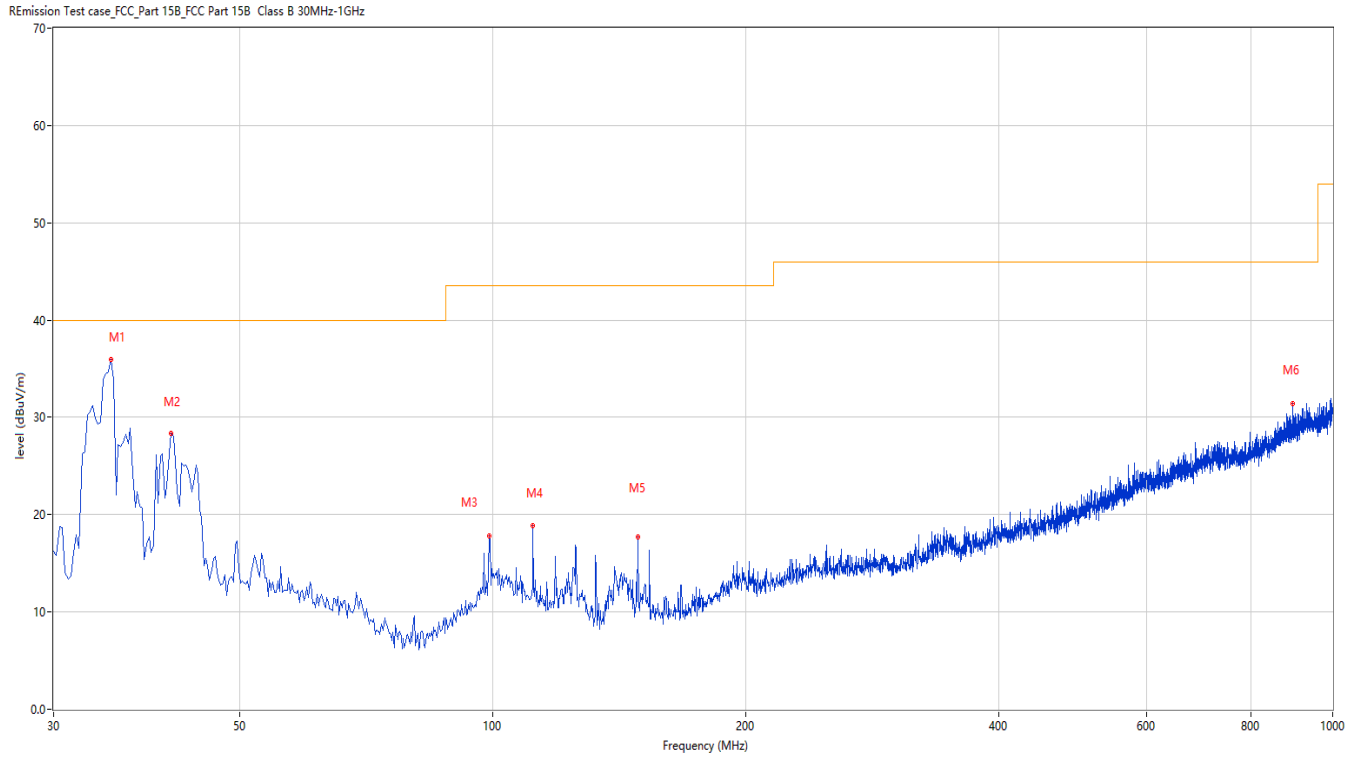
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 18 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.091	35.92	-28.04	40.0	-4.08	Peak	145.90	150	Horizontal	Pass
2	41.395	28.34	-25.87	40.0	-11.66	Peak	103.90	150	Horizontal	Pass
3	99.095	17.85	-26.71	43.5	-25.65	Peak	99.10	150	Horizontal	Pass
4	111.702	18.88	-27.11	43.5	-24.62	Peak	122.50	150	Horizontal	Pass
5	148.795	17.73	-29.97	43.5	-25.77	Peak	266.10	150	Horizontal	Pass
6	896.963	31.45	-9.85	46.0	-14.55	Peak	12.70	150	Horizontal	Pass

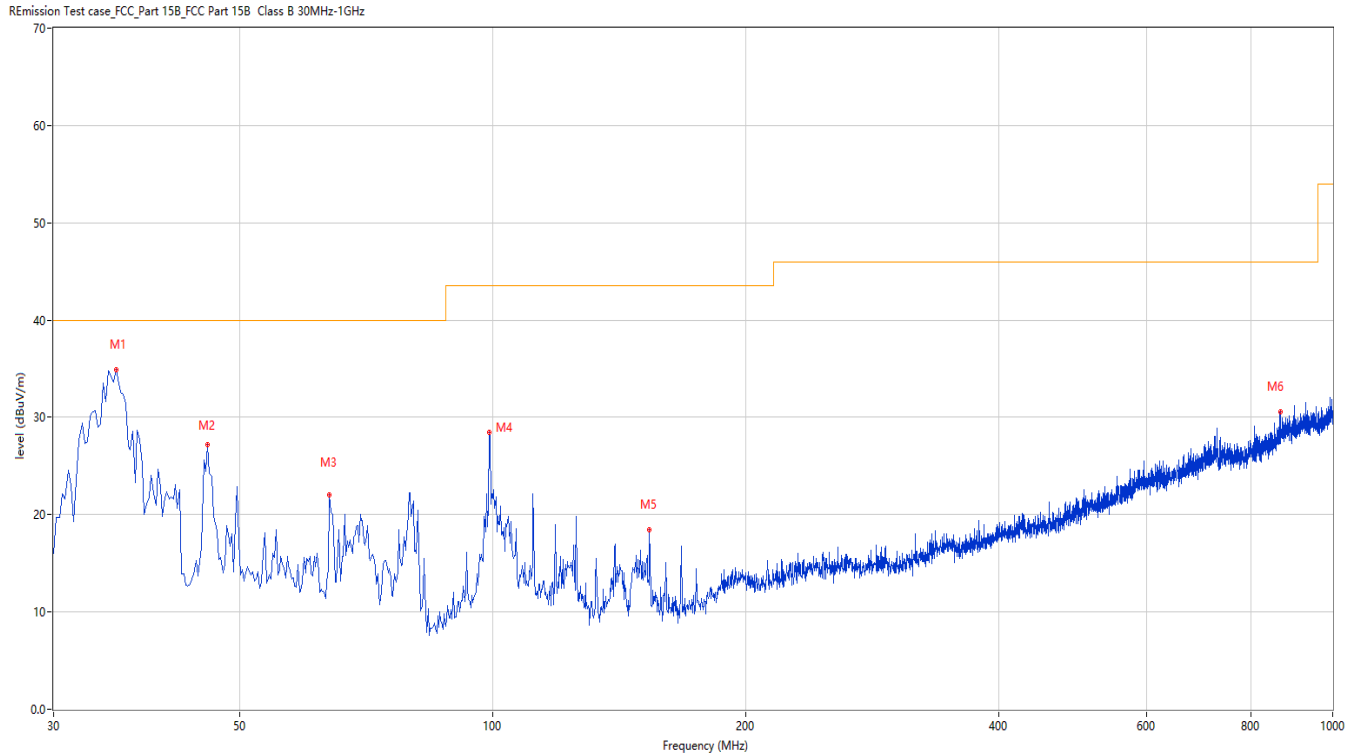
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 19 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.576	34.90	-27.86	40.0	-5.10	Peak	233.80	100	Vertical	Pass
2	45.759	27.24	-25.23	40.0	-12.76	Peak	48.50	100	Vertical	Pass
3	63.942	22.07	-27.34	40.0	-17.93	Peak	7.50	100	Vertical	Pass
4	99.095	28.44	-26.71	43.5	-15.06	Peak	238.30	100	Vertical	Pass
5	153.644	18.45	-29.78	43.5	-25.05	Peak	0.00	150	Vertical	Pass
6	866.416	30.62	-10.60	46.0	-15.38	Peak	0.00	150	Vertical	Pass

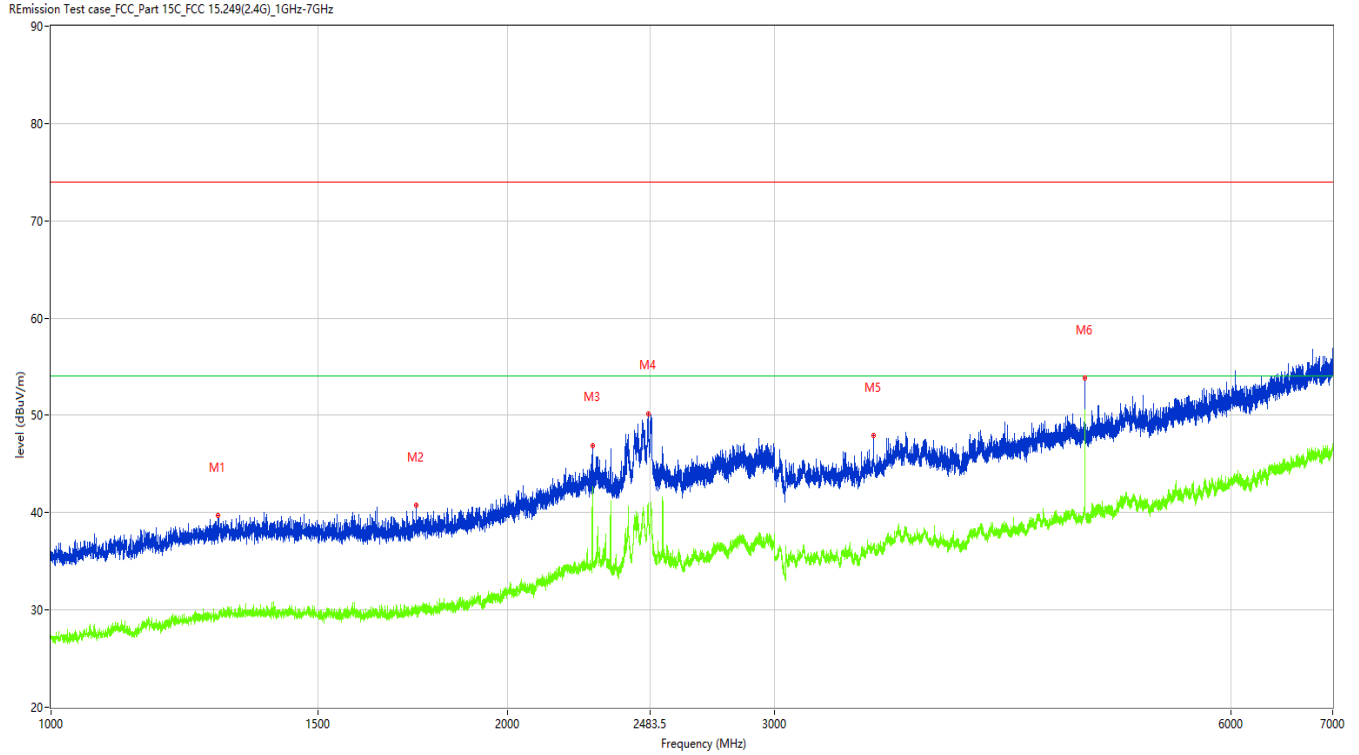
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 20 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1289.214	39.67	-12.94	74.0	-34.33	Peak	47.00	100	Horizontal	Pass
1**	1289.214	29.06	-12.94	54.0	-24.94	AV	47.00	100	Horizontal	Pass
2	1740.657	40.73	-12.57	74.0	-33.27	Peak	1.20	100	Horizontal	Pass
2**	1740.657	29.62	-12.57	54.0	-24.38	AV	1.20	100	Horizontal	Pass
3	2274.591	46.92	-7.37	74.0	-27.08	Peak	288.90	100	Horizontal	Pass
3**	2274.591	41.86	-7.37	54.0	-12.14	AV	288.90	100	Horizontal	Pass
4	2476.315	50.19	-2.10	74.0	-23.81	Peak	359.20	100	Horizontal	Pass
4**	2476.315	40.95	-2.10	54.0	-13.05	AV	359.20	100	Horizontal	Pass
5	3487.939	47.92	-3.81	74.0	-26.08	Peak	162.80	100	Horizontal	Pass
5**	3487.939	36.38	-3.81	54.0	-17.62	AV	162.80	100	Horizontal	Pass
6	4805.774	53.85	-0.55	74.0	-20.15	Peak	271.50	100	Horizontal	Pass
6**	4805.774	50.58	-0.55	54.0	-3.42	AV	271.50	100	Horizontal	Pass

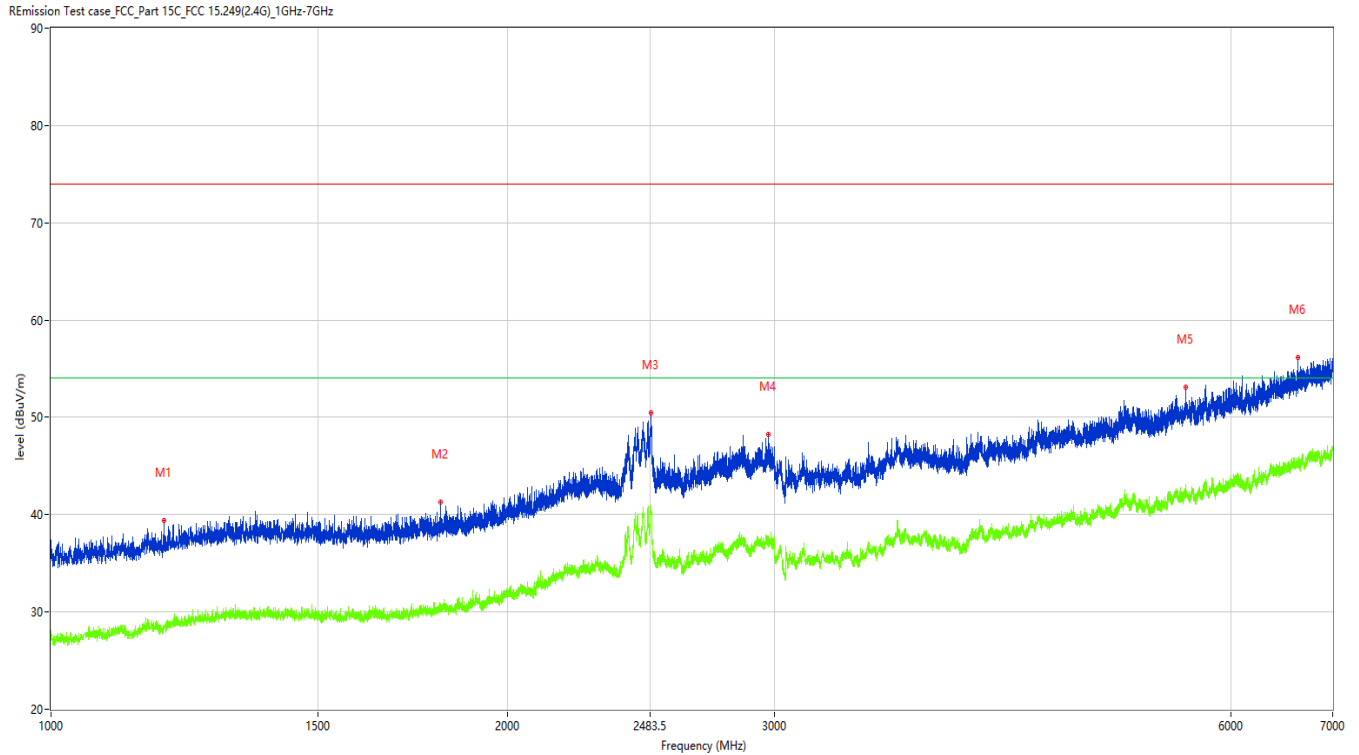
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 21 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1187.977	39.35	-13.58	74.0	-34.65	Peak	218.20	100	Vertical	Pass
1**	1187.977	28.38	-13.58	54.0	-25.62	AV	218.20	100	Vertical	Pass
2	1807.399	41.25	-12.42	74.0	-32.75	Peak	86.80	100	Vertical	Pass
2**	1807.399	30.44	-12.42	54.0	-23.56	AV	86.80	100	Vertical	Pass
3	2487.064	50.43	-1.89	74.0	-23.57	Peak	125.10	100	Vertical	Pass
3**	2487.064	40.95	-1.89	54.0	-13.05	AV	125.10	100	Vertical	Pass
4	2969.754	48.23	-3.29	74.0	-25.77	Peak	45.10	100	Vertical	Pass
4**	2969.754	37.81	-3.29	54.0	-16.19	AV	45.10	100	Vertical	Pass
5	5597.175	53.10	1.57	74.0	-20.90	Peak	71.80	100	Vertical	Pass
5**	5597.175	42.09	1.57	54.0	-11.91	AV	71.80	100	Vertical	Pass
6	6643.045	56.15	4.51	74.0	-17.85	Peak	139.10	100	Vertical	Pass
6**	6643.045	45.41	4.51	54.0	-8.59	AV	139.10	100	Vertical	Pass

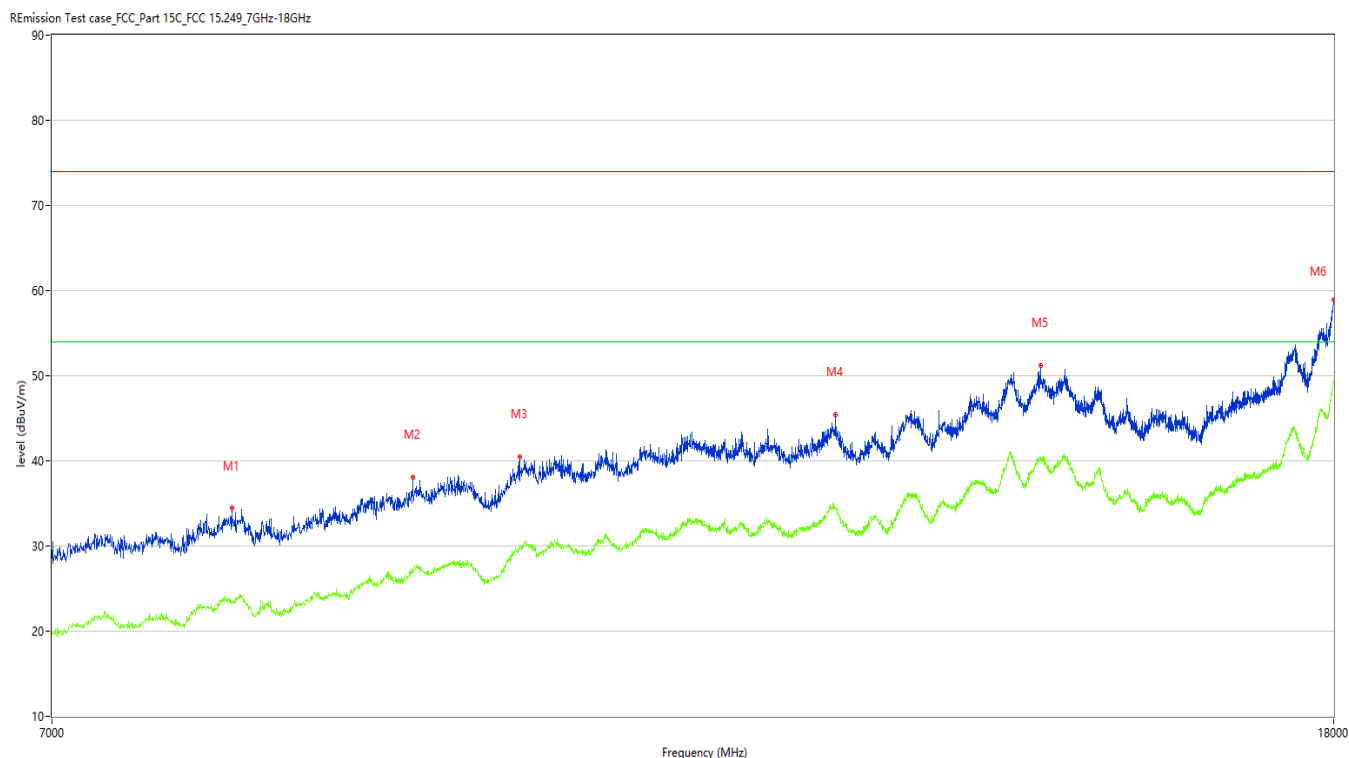
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 22 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7992.502	34.45	3.78	74.0	-39.55	Peak	131.00	100	Horizontal	Pass
1**	7992.502	23.28	3.78	54.0	-30.72	AV	131.00	100	Horizontal	Pass
2	9130.717	38.12	6.99	74.0	-35.88	Peak	328.20	100	Horizontal	Pass
2**	9130.717	26.91	6.99	54.0	-27.09	AV	328.20	100	Horizontal	Pass
3	9878.530	40.49	9.35	74.0	-33.51	Peak	357.50	100	Horizontal	Pass
3**	9878.530	29.68	9.35	54.0	-24.32	AV	357.50	100	Horizontal	Pass
4	12468.383	45.45	12.50	74.0	-28.55	Peak	178.30	100	Horizontal	Pass
4**	12468.383	34.44	12.50	54.0	-19.56	AV	178.30	100	Horizontal	Pass
5	14500.125	51.26	17.71	74.0	-22.74	Peak	216.60	100	Horizontal	Pass
5**	14500.125	40.29	17.71	54.0	-13.71	AV	216.60	100	Horizontal	Pass
6	18000.000	58.88	27.92	74.0	-15.12	Peak	89.60	100	Horizontal	Pass
6**	18000.000	49.43	27.92	54.0	-4.57	AV	89.60	100	Horizontal	Pass

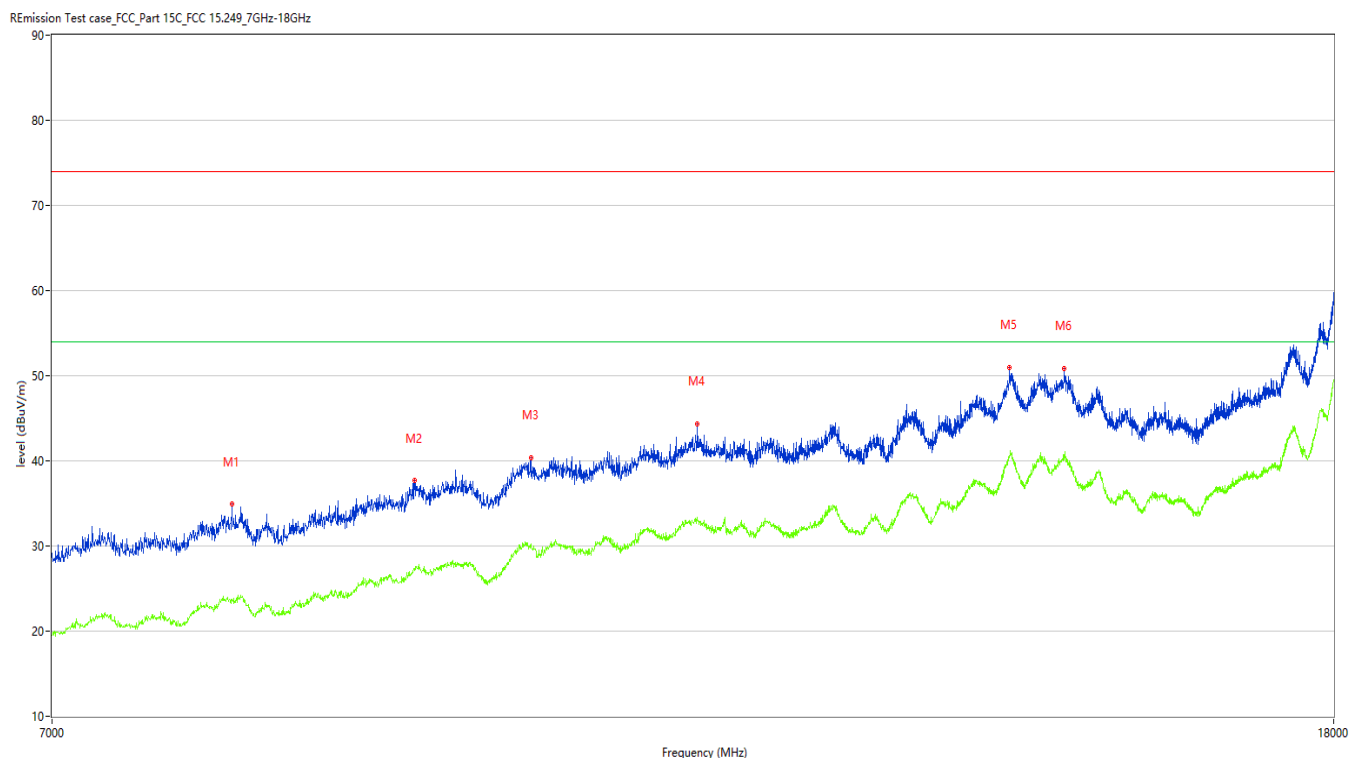
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 23 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7992.502	34.93	3.78	74.0	-39.07	Peak	42.80	100	Vertical	Pass
1**	7992.502	23.66	3.78	54.0	-30.34	AV	42.80	100	Vertical	Pass
2	9141.715	37.68	7.19	74.0	-36.32	Peak	173.40	100	Vertical	Pass
2**	9141.715	27.37	7.19	54.0	-26.63	AV	173.40	100	Vertical	Pass
3	9961.010	40.40	9.59	74.0	-33.60	Peak	19.70	100	Vertical	Pass
3**	9961.010	30.19	9.59	54.0	-23.81	AV	19.70	100	Vertical	Pass
4	11264.184	44.37	12.08	74.0	-29.63	Peak	359.30	100	Vertical	Pass
4**	11264.184	33.30	12.08	54.0	-20.70	AV	359.30	100	Vertical	Pass
5	14175.706	50.99	19.37	74.0	-23.01	Peak	24.60	100	Vertical	Pass
5**	14175.706	40.51	19.37	54.0	-13.49	AV	24.60	100	Vertical	Pass
6	14755.811	50.90	18.78	74.0	-23.10	Peak	196.50	100	Vertical	Pass
6**	14755.811	40.50	18.78	54.0	-13.50	AV	196.50	100	Vertical	Pass

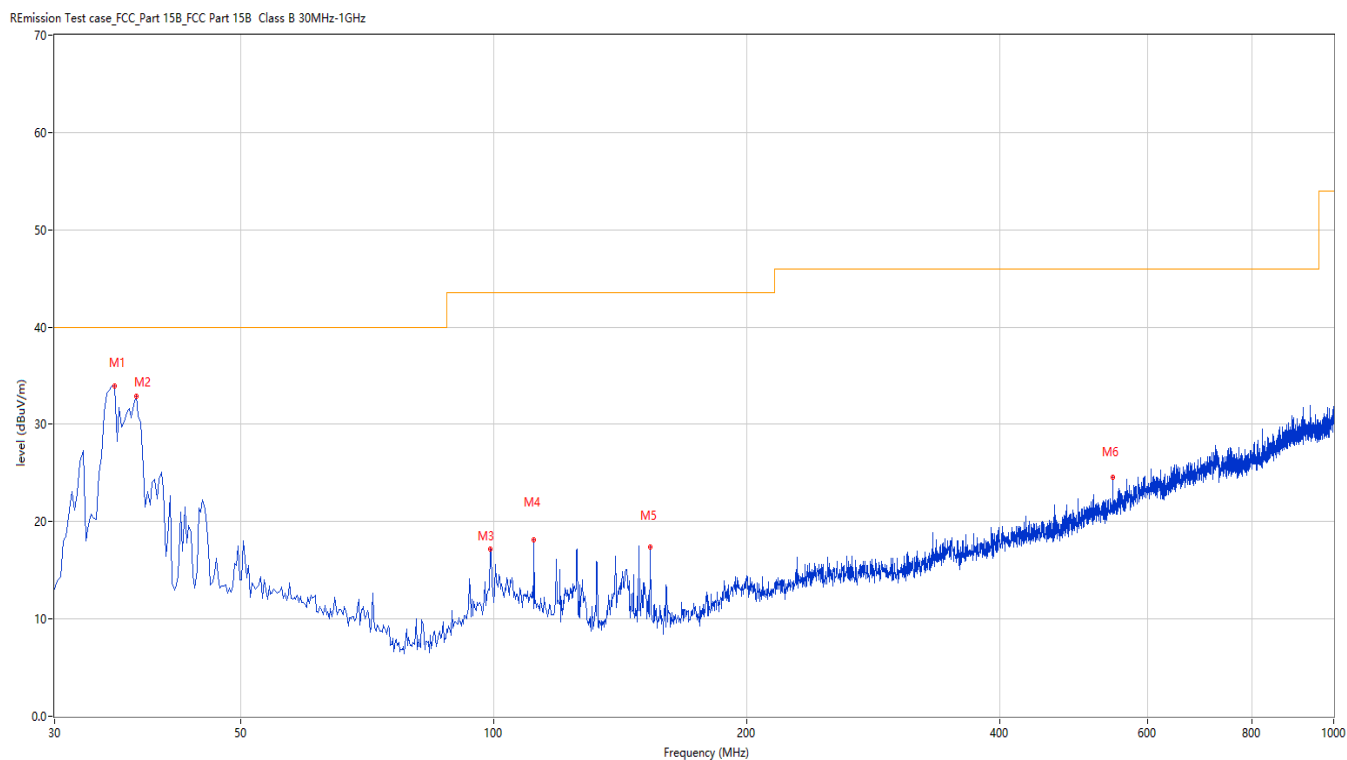
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 24 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.334	33.96	-27.95	40.0	-6.04	Peak	174.00	150	Horizontal	Pass
2	37.516	32.88	-27.18	40.0	-7.12	Peak	292.00	150	Horizontal	Pass
3	99.095	17.15	-26.71	43.5	-26.35	Peak	92.10	150	Horizontal	Pass
4	111.702	18.18	-27.11	43.5	-25.32	Peak	133.10	150	Horizontal	Pass
5	153.644	17.41	-29.78	43.5	-26.09	Peak	123.80	100	Horizontal	Pass
6	546.153	24.54	-17.43	46.0	-21.46	Peak	197.10	150	Horizontal	Pass

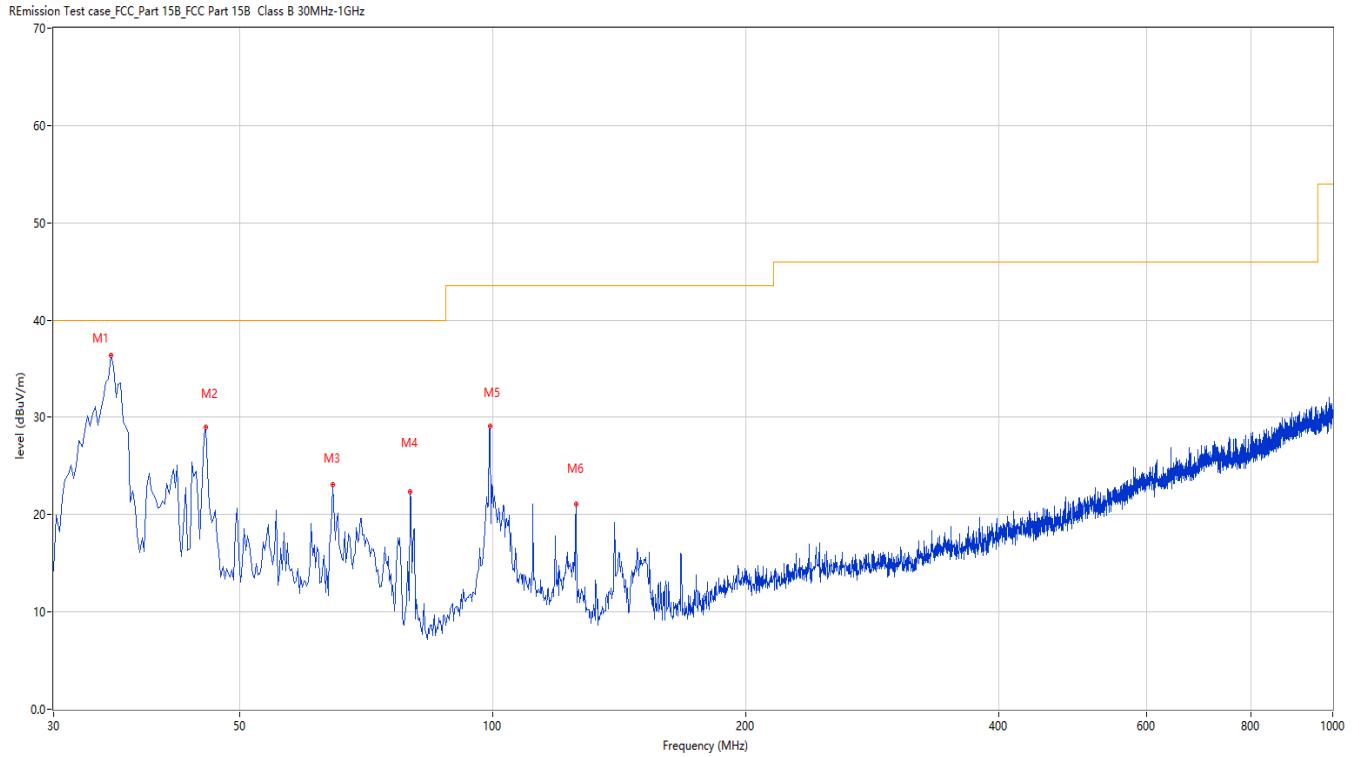
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 25 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.091	36.41	-28.04	40.0	-3.59	Peak	161.20	100	Vertical	Pass
2	45.516	28.94	-25.24	40.0	-11.06	Peak	359.00	100	Vertical	Pass
3	64.426	23.06	-27.48	40.0	-16.94	Peak	252.40	100	Vertical	Pass
4	79.700	22.39	-31.58	40.0	-17.61	Peak	267.90	150	Vertical	Pass
5	99.338	29.10	-26.69	43.5	-14.40	Peak	188.40	100	Vertical	Pass
6	125.764	21.06	-29.10	43.5	-22.44	Peak	133.70	100	Vertical	Pass

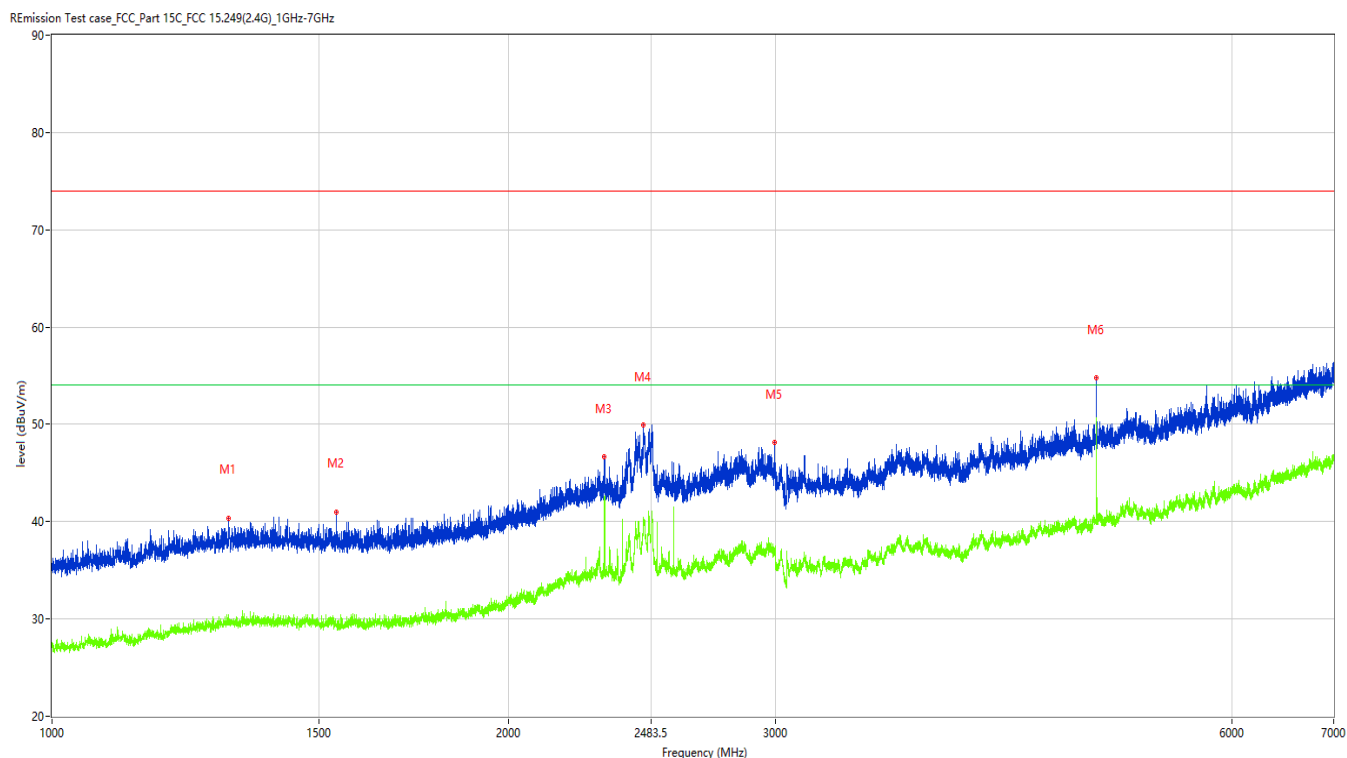
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 26 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1307.712	40.38	-12.60	74.0	-33.62	Peak	358.50	100	Horizontal	Pass
1**	1307.712	30.44	-12.60	54.0	-23.56	AV	358.50	100	Horizontal	Pass
2	1539.683	41.00	-13.08	74.0	-33.00	Peak	307.50	100	Horizontal	Pass
2**	1539.683	29.21	-13.08	54.0	-24.79	AV	307.50	100	Horizontal	Pass
3	2313.836	46.63	-7.34	74.0	-27.37	Peak	279.50	100	Horizontal	Pass
3**	2313.836	42.60	-7.34	54.0	-11.40	AV	279.50	100	Horizontal	Pass
4	2455.568	49.92	-2.67	74.0	-24.08	Peak	23.50	100	Horizontal	Pass
4**	2455.568	40.11	-2.67	54.0	-13.89	AV	23.50	100	Horizontal	Pass
5	2994.001	48.10	-3.07	74.0	-25.90	Peak	134.40	100	Horizontal	Pass
5**	2994.001	36.79	-3.07	54.0	-17.21	AV	134.40	100	Horizontal	Pass
6	4883.765	54.79	0.06	74.0	-19.21	Peak	261.80	100	Horizontal	Pass
6**	4883.765	50.63	0.06	54.0	-3.37	AV	261.80	100	Horizontal	Pass

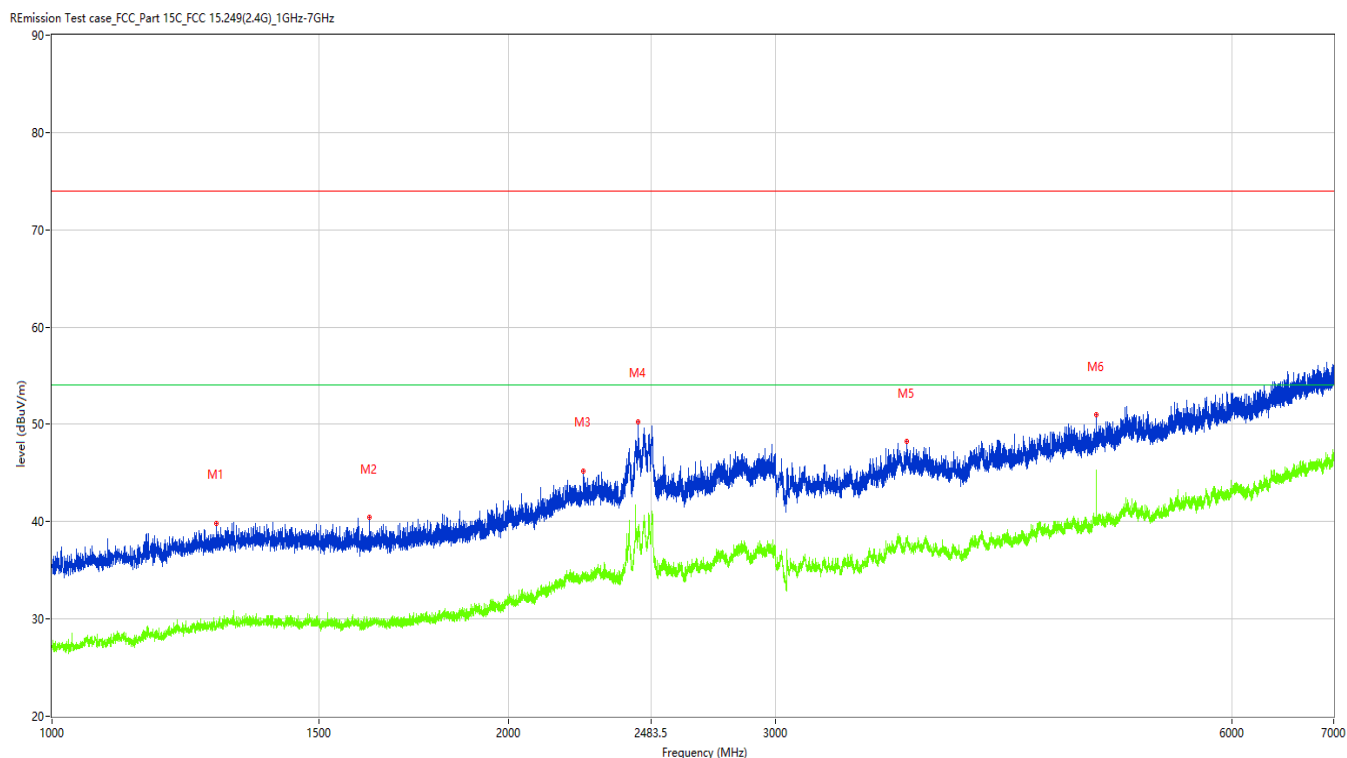
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 27 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1283.465	39.83	-12.87	74.0	-34.17	Peak	249.70	100	Vertical	Pass
1**	1283.465	28.95	-12.87	54.0	-25.05	AV	249.70	100	Vertical	Pass
2	1619.173	40.45	-13.00	74.0	-33.55	Peak	75.60	100	Vertical	Pass
2**	1619.173	29.64	-13.00	54.0	-24.36	AV	75.60	100	Vertical	Pass
3	2240.845	45.23	-8.02	74.0	-28.77	Peak	125.80	100	Vertical	Pass
3**	2240.845	34.73	-8.02	54.0	-19.27	AV	125.80	100	Vertical	Pass
4	2433.321	50.28	-3.20	74.0	-23.72	Peak	130.30	100	Vertical	Pass
4**	2433.321	39.29	-3.20	54.0	-14.71	AV	130.30	100	Vertical	Pass
5	3660.417	48.23	-1.63	74.0	-25.77	Peak	332.10	100	Vertical	Pass
5**	3660.417	38.22	-1.63	54.0	-15.78	AV	332.10	100	Vertical	Pass
6	4883.265	50.95	0.06	74.0	-23.05	Peak	247.30	100	Vertical	Pass
6**	4883.265	43.64	0.06	54.0	-10.36	AV	247.30	100	Vertical	Pass

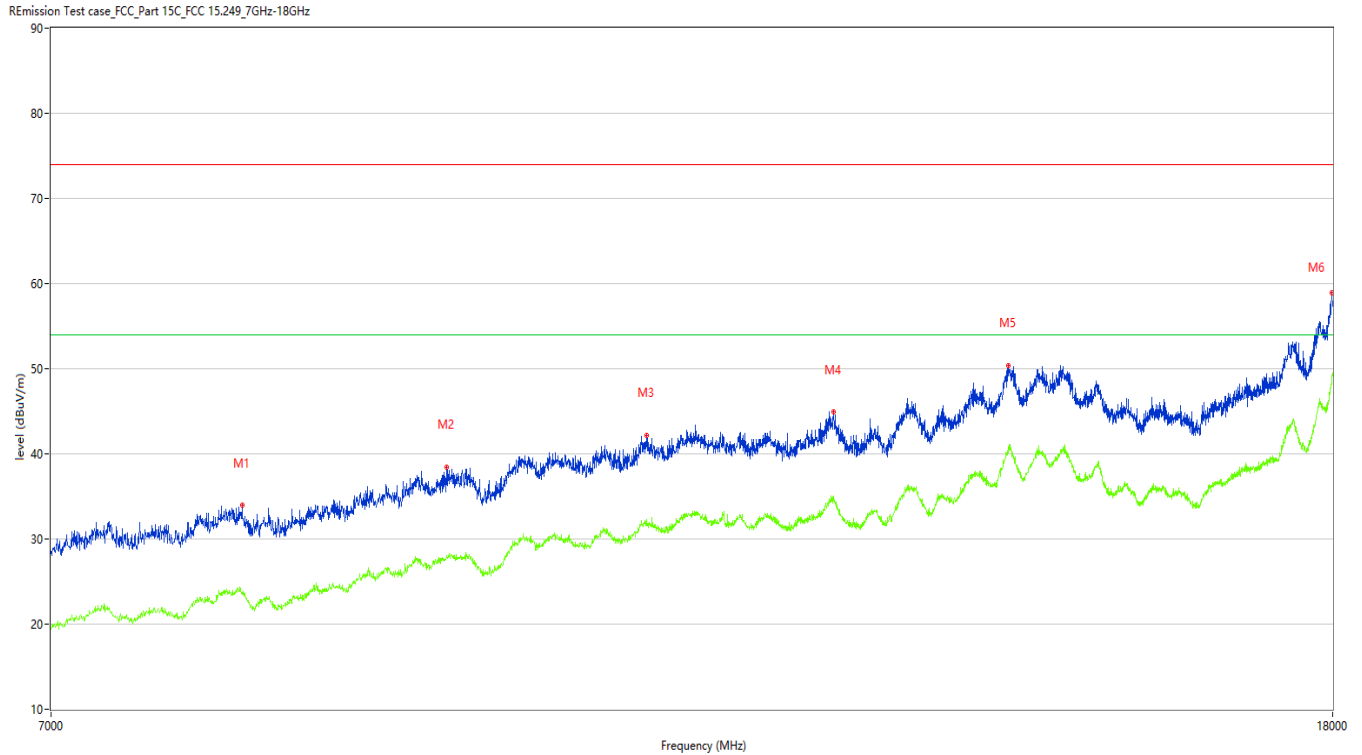
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 28 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	8058.485	33.94	4.33	74.0	-40.06	Peak	265.80	100	Horizontal	Pass
1**	8058.485	23.69	4.33	54.0	-30.31	AV	265.80	100	Horizontal	Pass
2	9369.908	38.49	7.60	74.0	-35.51	Peak	80.50	100	Horizontal	Pass
2**	9369.908	28.07	7.60	54.0	-25.93	AV	80.50	100	Horizontal	Pass
3	10857.286	42.20	11.12	74.0	-31.80	Peak	285.90	100	Horizontal	Pass
3**	10857.286	31.61	11.12	54.0	-22.39	AV	285.90	100	Horizontal	Pass
4	12457.386	44.92	12.53	74.0	-29.08	Peak	80.50	100	Horizontal	Pass
4**	12457.386	35.00	12.53	54.0	-19.00	AV	80.50	100	Horizontal	Pass
5	14170.207	50.42	19.20	74.0	-23.58	Peak	113.60	100	Horizontal	Pass
5**	14170.207	40.15	19.20	54.0	-13.85	AV	113.60	100	Horizontal	Pass
6	17983.504	58.93	26.90	74.0	-15.07	Peak	180.90	100	Horizontal	Pass
6**	17983.504	48.21	26.90	54.0	-5.79	AV	180.90	100	Horizontal	Pass

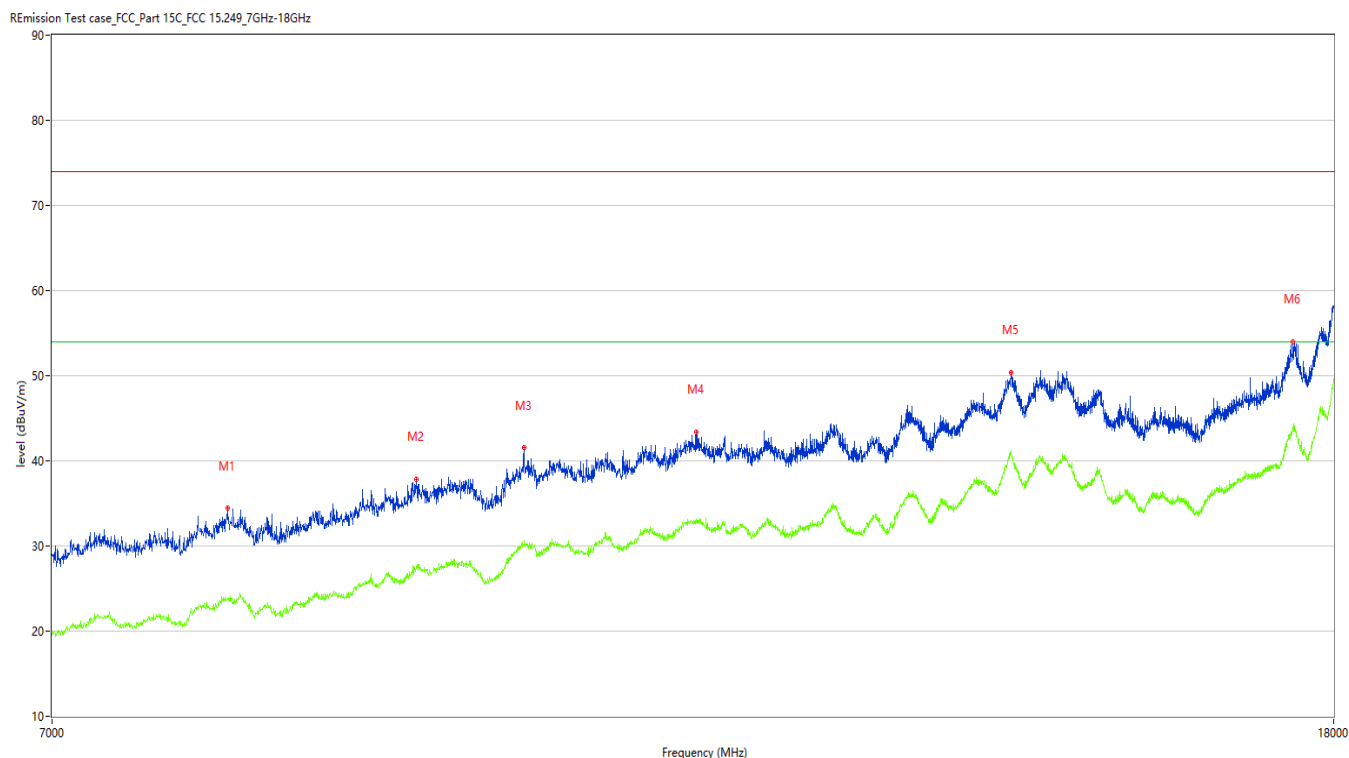
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 29 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7965.009	34.44	3.51	74.0	-39.56	Peak	126.20	100	Vertical	Pass
1**	7965.009	23.91	3.51	54.0	-30.09	AV	126.20	100	Vertical	Pass
2	9155.461	37.78	7.42	74.0	-36.22	Peak	207.00	100	Vertical	Pass
2**	9155.461	27.35	7.42	54.0	-26.65	AV	207.00	100	Vertical	Pass
3	9911.522	41.51	9.87	74.0	-32.49	Peak	2.50	100	Vertical	Pass
3**	9911.522	29.97	9.87	54.0	-24.03	AV	2.50	100	Vertical	Pass
4	11250.437	43.40	11.90	74.0	-30.60	Peak	182.10	100	Vertical	Pass
4**	11250.437	33.10	11.90	54.0	-20.90	AV	182.10	100	Vertical	Pass
5	14189.453	50.37	19.73	74.0	-23.63	Peak	62.20	100	Vertical	Pass
5**	14189.453	40.95	19.73	54.0	-13.05	AV	62.20	100	Vertical	Pass
6	17466.633	54.02	21.19	74.0	-19.98	Peak	354.60	100	Vertical	Pass
6**	17466.633	43.72	21.19	54.0	-10.28	AV	354.60	100	Vertical	Pass

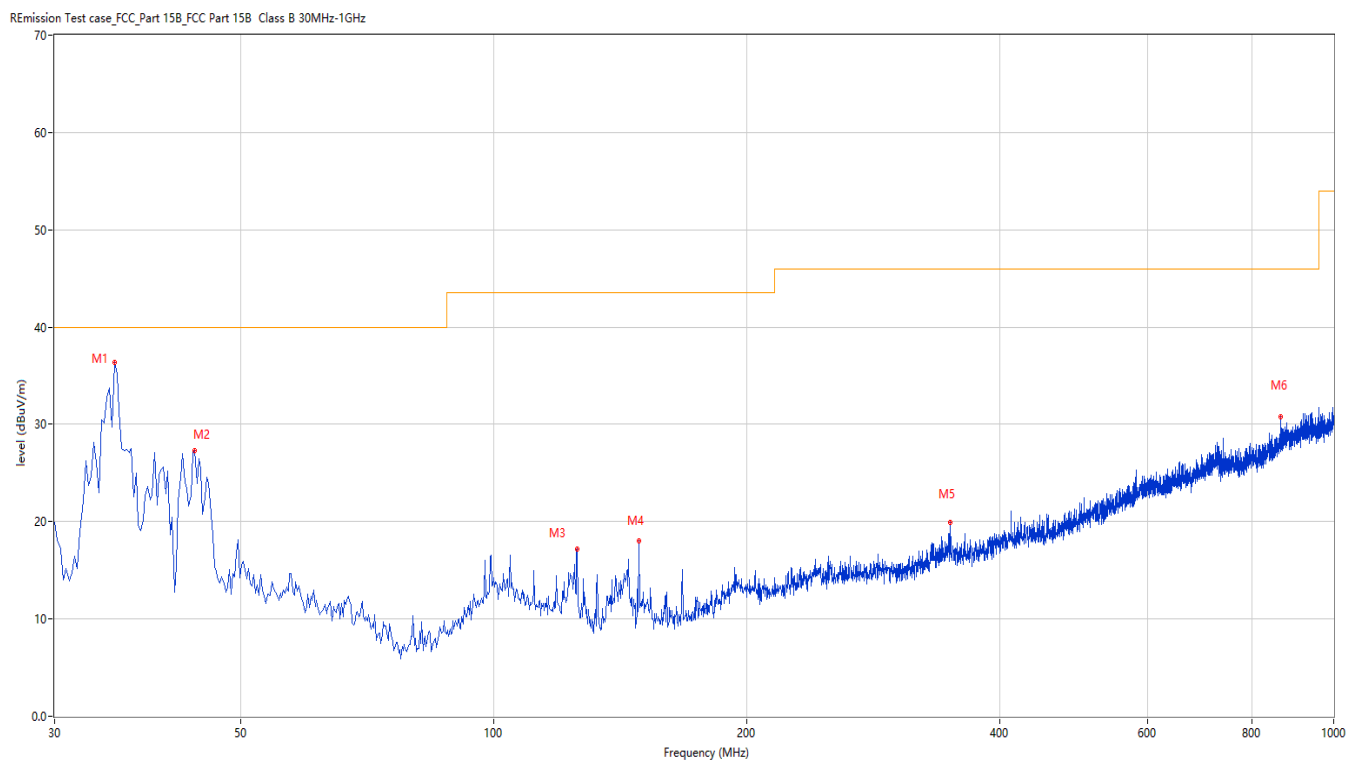
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 30 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.334	36.33	-27.95	40.0	-3.67	Peak	2.70	150	Horizontal	Pass
2	44.061	27.26	-25.35	40.0	-12.74	Peak	202.20	150	Horizontal	Pass
3	125.764	17.14	-29.10	43.5	-26.36	Peak	125.90	100	Horizontal	Pass
4	148.795	17.98	-29.97	43.5	-25.52	Peak	321.00	150	Horizontal	Pass
5	349.293	19.88	-21.66	46.0	-26.12	Peak	73.10	150	Horizontal	Pass
6	864.719	30.83	-10.68	46.0	-15.17	Peak	42.60	100	Horizontal	Pass

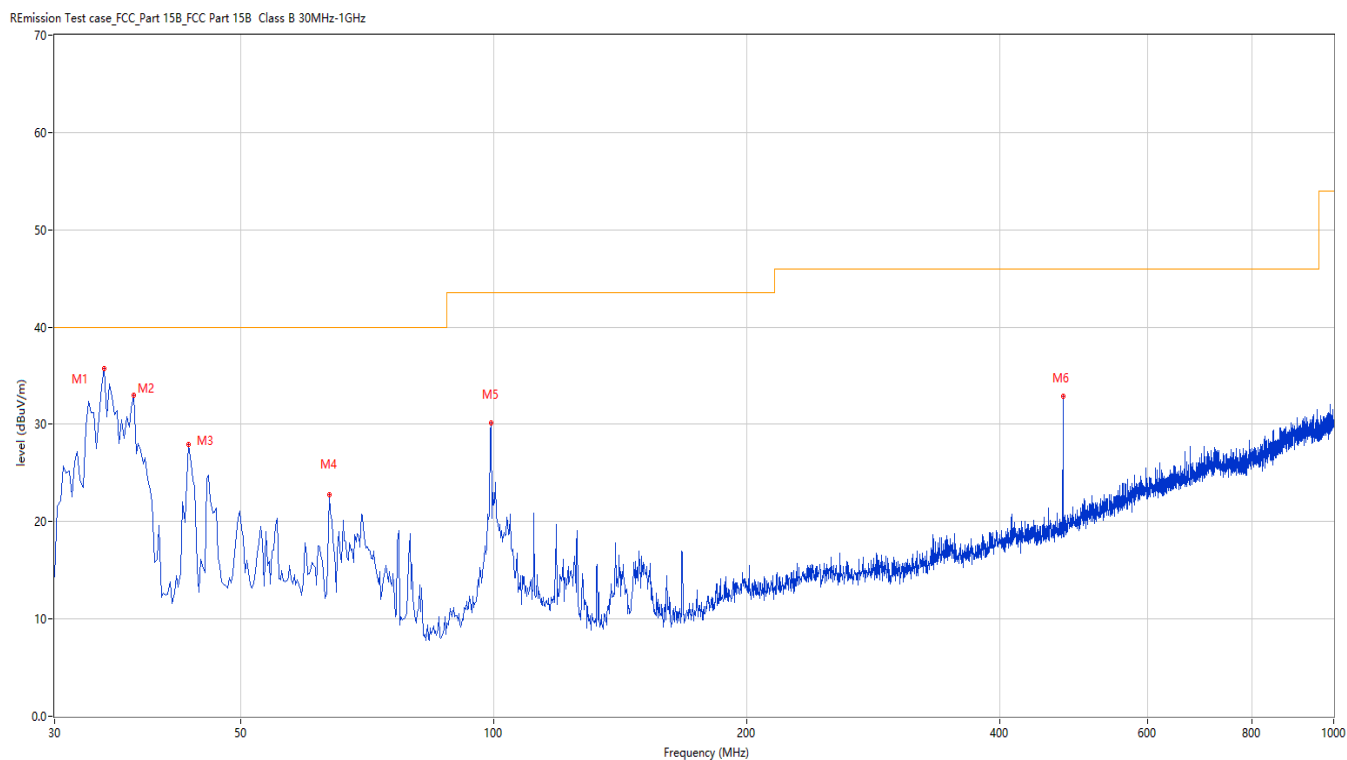
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 31 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	34.364	35.73	-28.28	40.0	-4.27	Peak	229.30	100	Vertical	Pass
2	37.273	33.03	-27.28	40.0	-6.97	Peak	174.60	100	Vertical	Pass
3	43.334	27.90	-25.44	40.0	-12.10	Peak	0.00	150	Vertical	Pass
4	63.699	22.77	-27.26	40.0	-17.23	Peak	211.10	100	Vertical	Pass
5	99.338	30.19	-26.69	43.5	-13.31	Peak	192.90	100	Vertical	Pass
6	476.331	32.90	-19.47	46.0	-13.10	Peak	36.90	100	Vertical	Pass

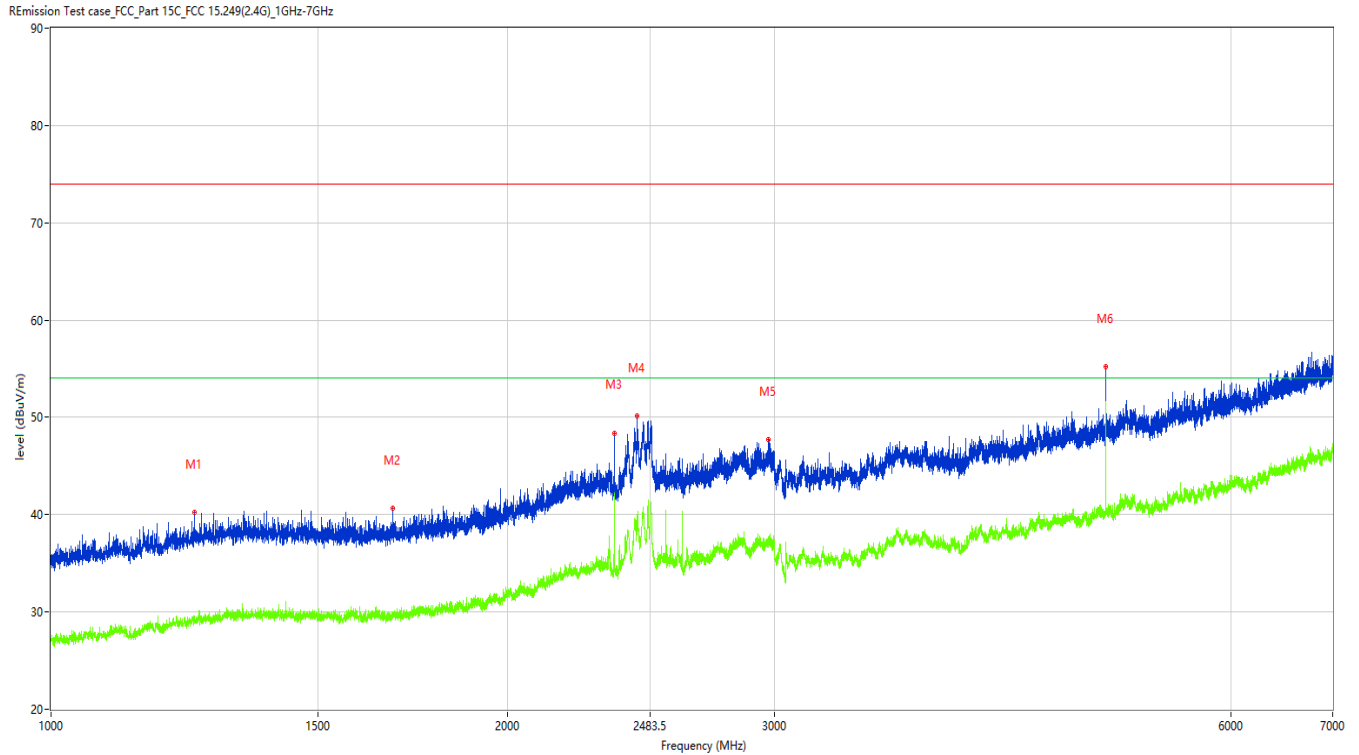
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 32 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1243.220	40.23	-13.19	74.0	-33.77	Peak	101.70	100	Horizontal	Pass
1**	1243.220	29.58	-13.19	54.0	-24.42	AV	101.70	100	Horizontal	Pass
2	1680.915	40.62	-13.14	74.0	-33.38	Peak	165.70	100	Horizontal	Pass
2**	1680.915	29.74	-13.14	54.0	-24.26	AV	165.70	100	Horizontal	Pass
3	2352.081	48.39	-8.02	74.0	-25.61	Peak	293.00	100	Horizontal	Pass
3**	2352.081	42.25	-8.02	54.0	-11.75	AV	293.00	100	Horizontal	Pass
4	2434.571	50.12	-3.18	74.0	-23.88	Peak	9.00	100	Horizontal	Pass
4**	2434.571	39.39	-3.18	54.0	-14.61	AV	9.00	100	Horizontal	Pass
5	2970.754	47.73	-3.28	74.0	-26.27	Peak	348.00	100	Horizontal	Pass
5**	2970.754	37.37	-3.28	54.0	-16.63	AV	348.00	100	Horizontal	Pass
6	4959.755	55.17	0.22	74.0	-18.83	Peak	254.40	100	Horizontal	Pass
6**	4959.755	51.63	0.22	54.0	-2.37	AV	254.40	100	Horizontal	Pass

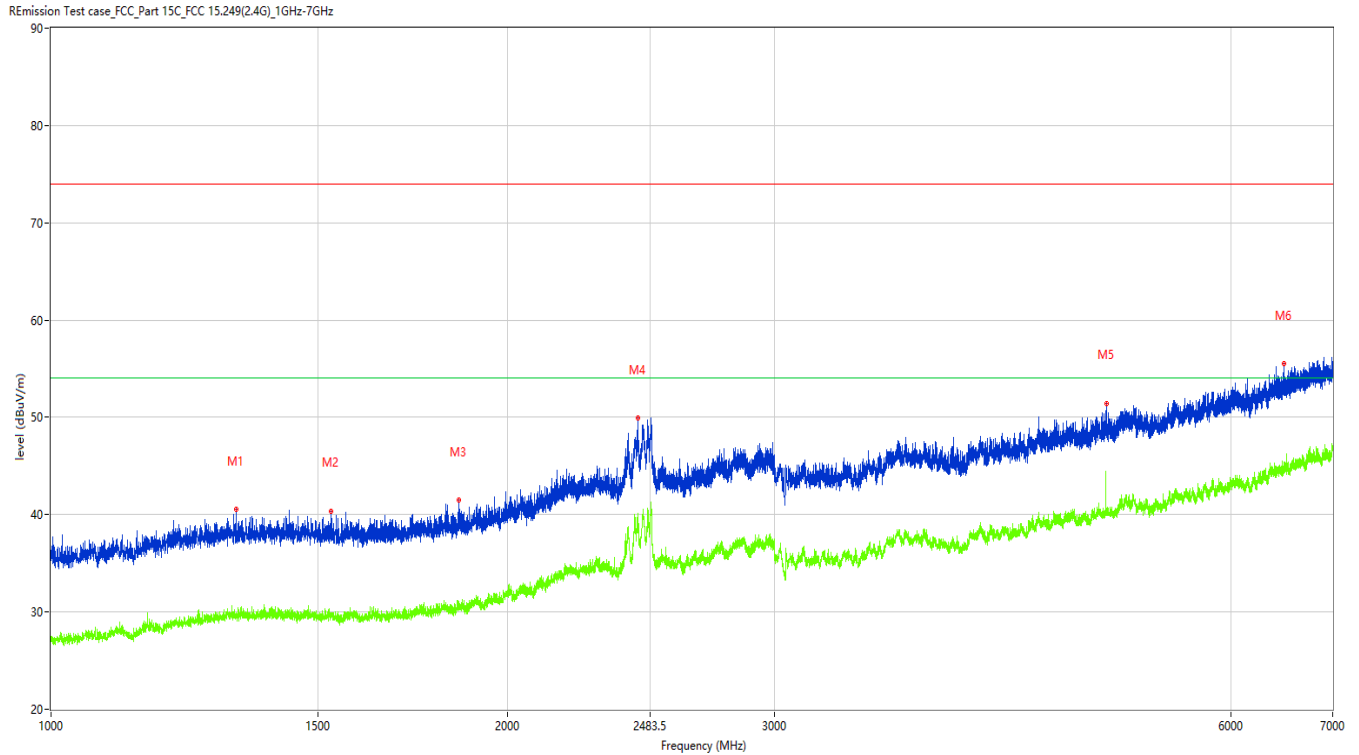
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 33 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1324.209	40.53	-12.94	74.0	-33.47	Peak	76.70	100	Vertical	Pass
1**	1324.209	29.44	-12.94	54.0	-24.56	AV	76.70	100	Vertical	Pass
2	1528.934	40.38	-13.01	74.0	-33.62	Peak	291.10	100	Vertical	Pass
2**	1528.934	29.64	-13.01	54.0	-24.36	AV	291.10	100	Vertical	Pass
3	1857.143	41.51	-12.17	74.0	-32.49	Peak	95.00	100	Vertical	Pass
3**	1857.143	30.74	-12.17	54.0	-23.26	AV	95.00	100	Vertical	Pass
4	2438.070	49.94	-3.09	74.0	-24.06	Peak	67.80	100	Vertical	Pass
4**	2438.070	40.07	-3.09	54.0	-13.93	AV	67.80	100	Vertical	Pass
5	4968.754	51.45	0.18	74.0	-22.55	Peak	140.60	100	Vertical	Pass
5**	4968.754	39.92	0.18	54.0	-14.08	AV	140.60	100	Vertical	Pass
6	6499.563	55.53	3.91	74.0	-18.47	Peak	47.90	100	Vertical	Pass
6**	6499.563	44.68	3.91	54.0	-9.32	AV	47.90	100	Vertical	Pass

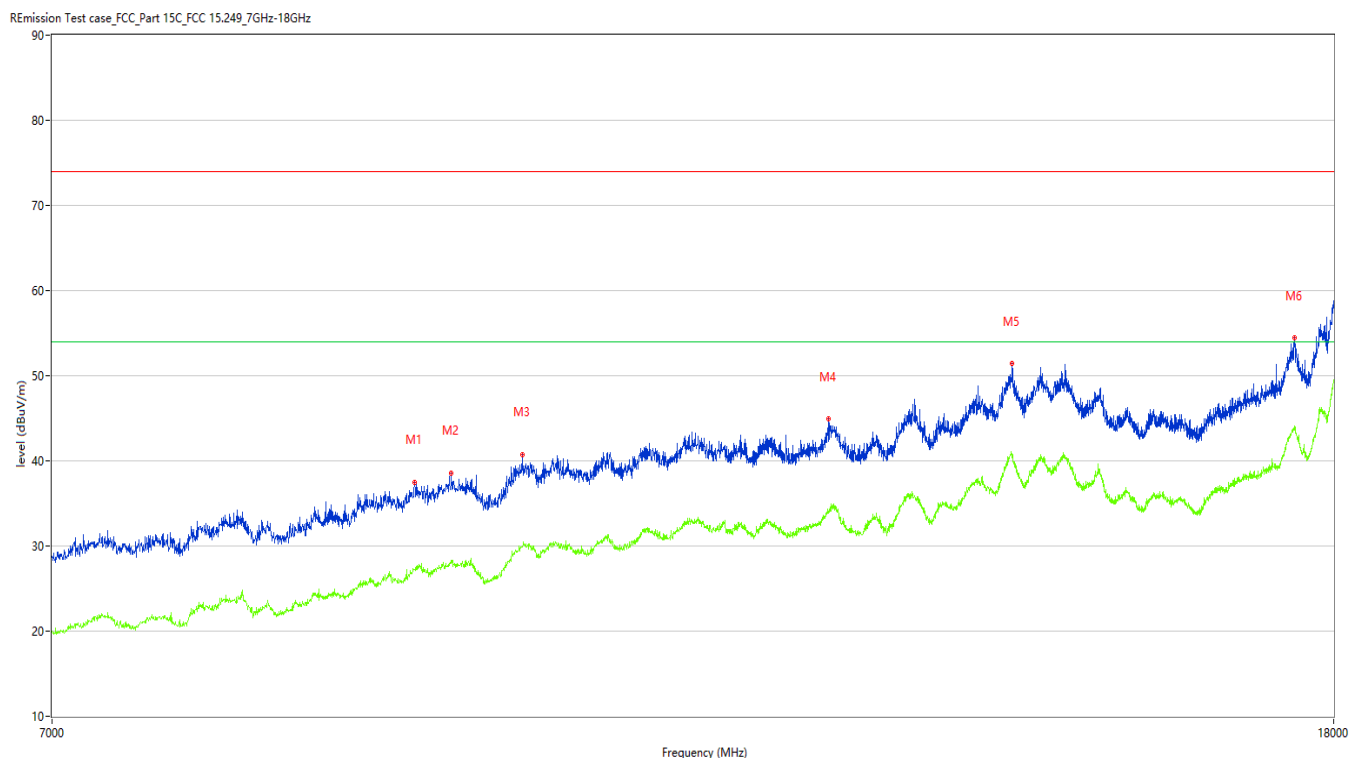
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 34 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	9141.715	37.48	7.19	74.0	-36.52	Peak	314.20	100	Horizontal	Pass
1**	9141.715	27.25	7.19	54.0	-26.75	AV	314.20	100	Horizontal	Pass
2	9394.651	38.59	7.66	74.0	-35.41	Peak	12.40	100	Horizontal	Pass
2**	9394.651	28.34	7.66	54.0	-25.66	AV	12.40	100	Horizontal	Pass
3	9903.274	40.76	9.75	74.0	-33.24	Peak	267.60	100	Horizontal	Pass
3**	9903.274	29.92	9.75	54.0	-24.08	AV	267.60	100	Horizontal	Pass
4	12407.898	44.91	12.29	74.0	-29.09	Peak	109.50	100	Horizontal	Pass
4**	12407.898	34.11	12.29	54.0	-19.89	AV	109.50	100	Horizontal	Pass
5	14203.199	51.42	19.42	74.0	-22.58	Peak	244.90	100	Horizontal	Pass
5**	14203.199	40.54	19.42	54.0	-13.46	AV	244.90	100	Horizontal	Pass
6	17491.377	54.42	21.39	74.0	-19.58	Peak	44.40	100	Horizontal	Pass
6**	17491.377	43.94	21.39	54.0	-10.06	AV	44.40	100	Horizontal	Pass

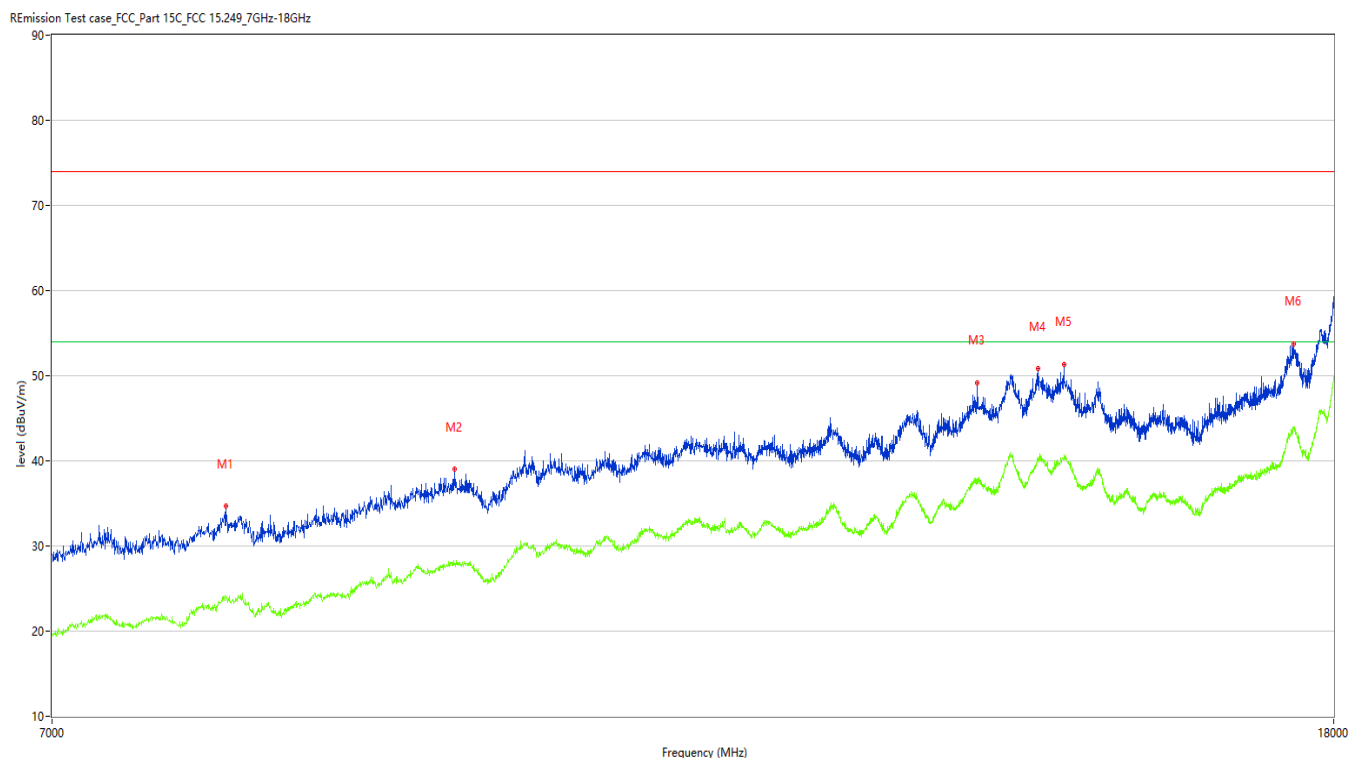
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 35 of 49

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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	7956.761	34.69	3.43	74.0	-39.31	Peak	219.00	100	Vertical	Pass
1**	7956.761	23.91	3.43	54.0	-30.09	AV	219.00	100	Vertical	Pass
2	9416.646	38.99	7.63	74.0	-35.01	Peak	144.60	100	Vertical	Pass
2**	9416.646	27.84	7.63	54.0	-26.16	AV	144.60	100	Vertical	Pass
3	13840.290	49.21	15.17	74.0	-24.79	Peak	359.10	100	Vertical	Pass
3**	13840.290	37.33	15.17	54.0	-16.67	AV	359.10	100	Vertical	Pass
4	14472.632	50.83	17.89	74.0	-23.17	Peak	85.80	100	Vertical	Pass
4**	14472.632	40.23	17.89	54.0	-13.77	AV	85.80	100	Vertical	Pass
5	14758.560	51.35	18.81	74.0	-22.65	Peak	49.30	100	Vertical	Pass
5**	14758.560	40.41	18.81	54.0	-13.59	AV	49.30	100	Vertical	Pass
6	17472.132	53.76	21.29	74.0	-20.24	Peak	14.90	100	Vertical	Pass
6**	17472.132	43.71	21.29	54.0	-10.29	AV	14.90	100	Vertical	Pass

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 36 of 49

4.1.3 Band Edge

RESULT:

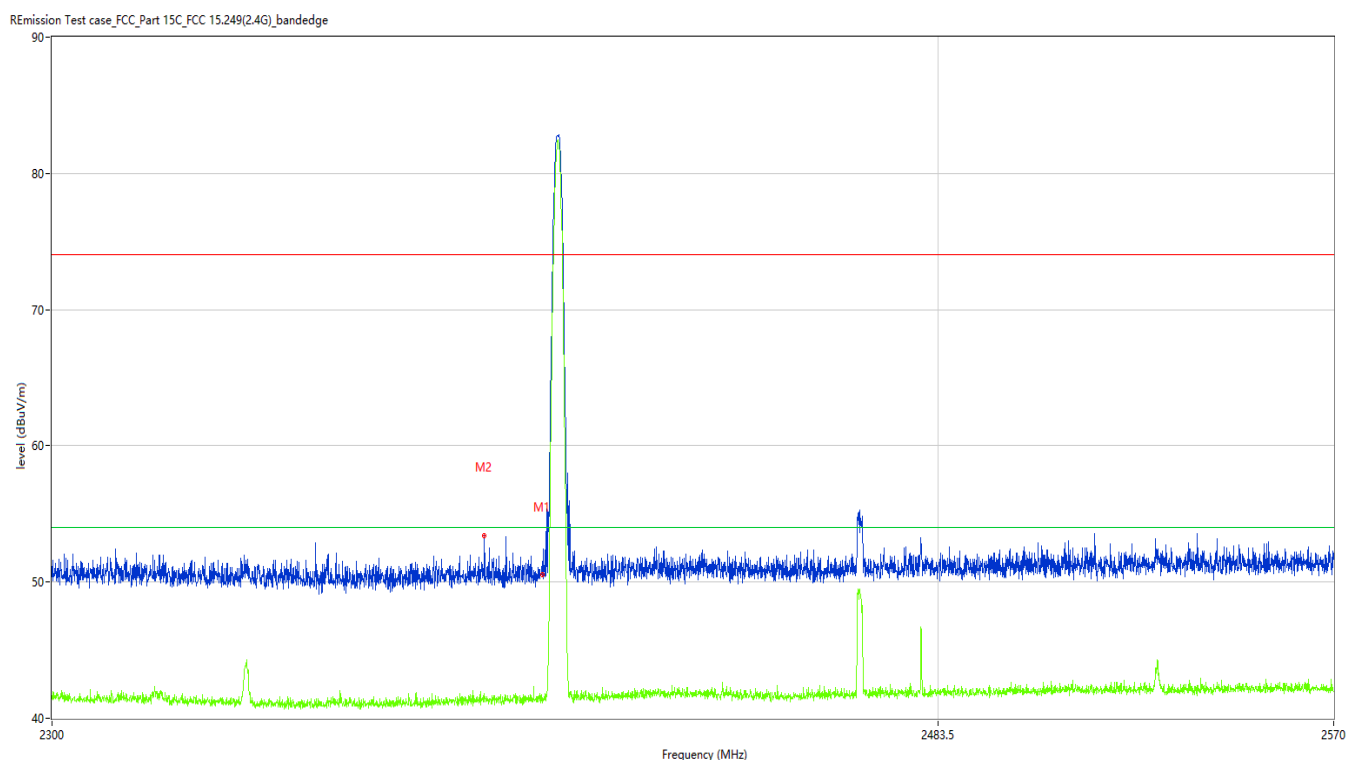
PASS

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 : 21°C
Relative humidity : 55%

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	50.59	-9.87	74.0	-23.41	Peak	94.97	100	Horizontal	Pass
1**	2400.000	41.29	-9.87	54.0	-12.71	AV	94.97	100	Horizontal	Pass
2	2387.796	53.43	-10.00	74.0	-20.57	Peak	2.20	100	Horizontal	Pass
2**	2387.796	41.78	-10.00	54.0	-12.22	AV	2.20	100	Horizontal	Pass

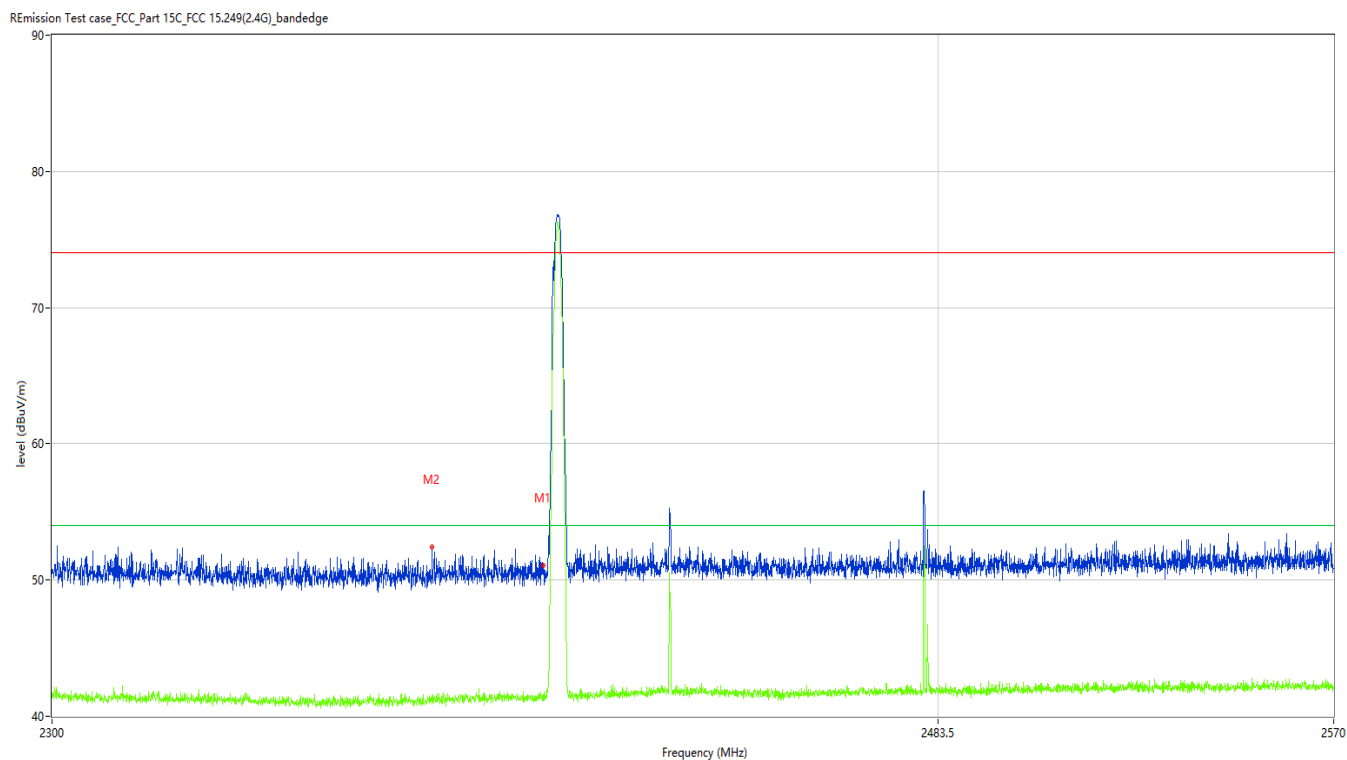
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 37 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2400.000	50.97	-9.87	74.0	-23.03	Peak	141.46	100	Vertical	Pass
1**	2400.000	41.22	-9.87	54.0	-12.78	AV	141.46	100	Vertical	Pass
2	2376.931	52.42	-10.18	74.0	-21.58	Peak	161.90	100	Vertical	Pass
2**	2376.931	40.95	-10.18	54.0	-13.05	AV	161.90	100	Vertical	Pass

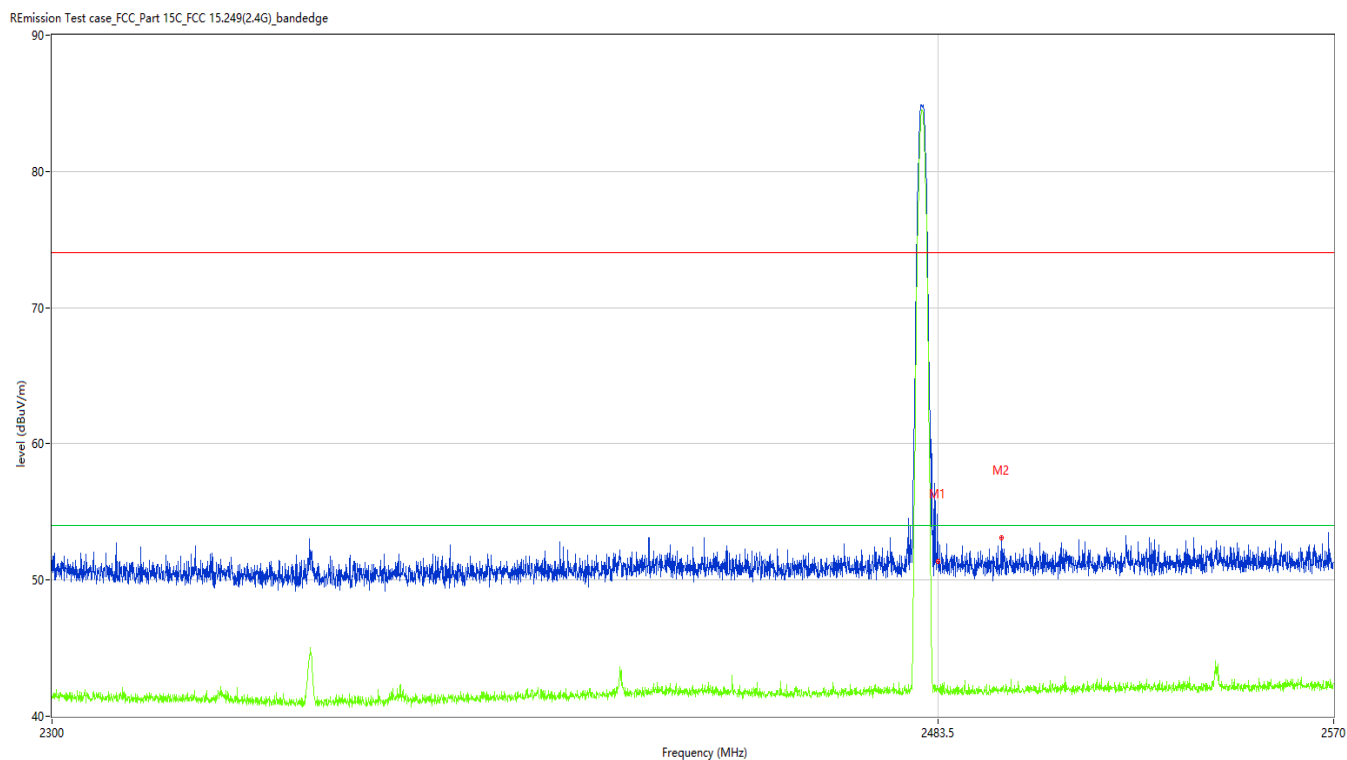
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 38 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.37	-9.51	74.0	-22.63	Peak	305.64	100	Horizontal	Pass
1**	2483.500	42.03	-9.51	54.0	-11.97	AV	305.64	100	Horizontal	Pass
2	2497.186	53.10	-9.49	74.0	-20.90	Peak	183.40	100	Horizontal	Pass
2**	2497.186	42.08	-9.49	54.0	-11.92	AV	183.40	100	Horizontal	Pass

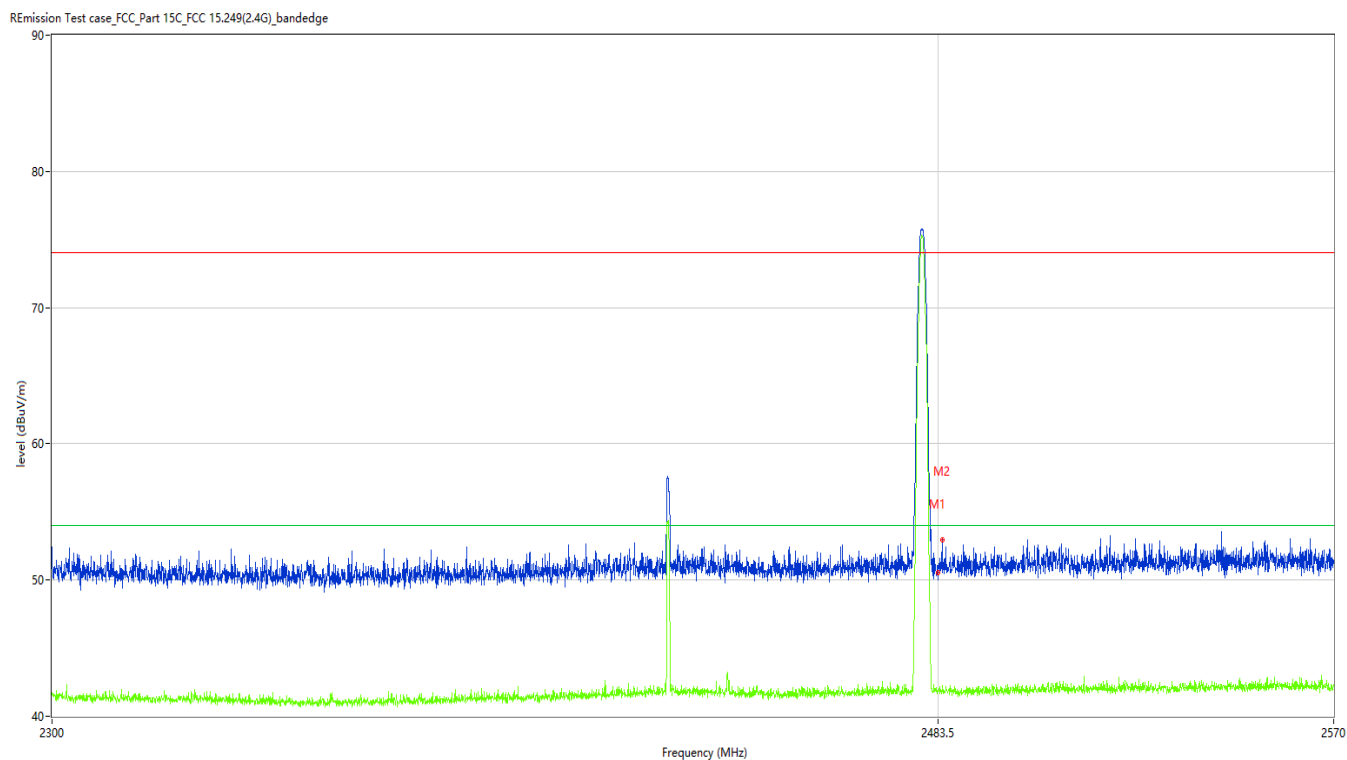
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 39 of 49

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	50.65	-9.51	74.0	-23.35	Peak	86.89	100	Vertical	Pass
1**	2483.500	41.79	-9.51	54.0	-12.21	AV	86.89	100	Vertical	Pass
2	2484.296	52.96	-9.52	74.0	-21.04	Peak	118.40	100	Vertical	Pass
2**	2484.296	41.80	-9.52	54.0	-12.20	AV	118.40	100	Vertical	Pass

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 40 of 49

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 : 24.4°C
Relative humidity : 54%

Table 1: 20dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
GFSK	2403	0.9976	0.9368
	2442	0.9479	0.9207
	2480	1.0230	0.9316

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 41 of 49

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

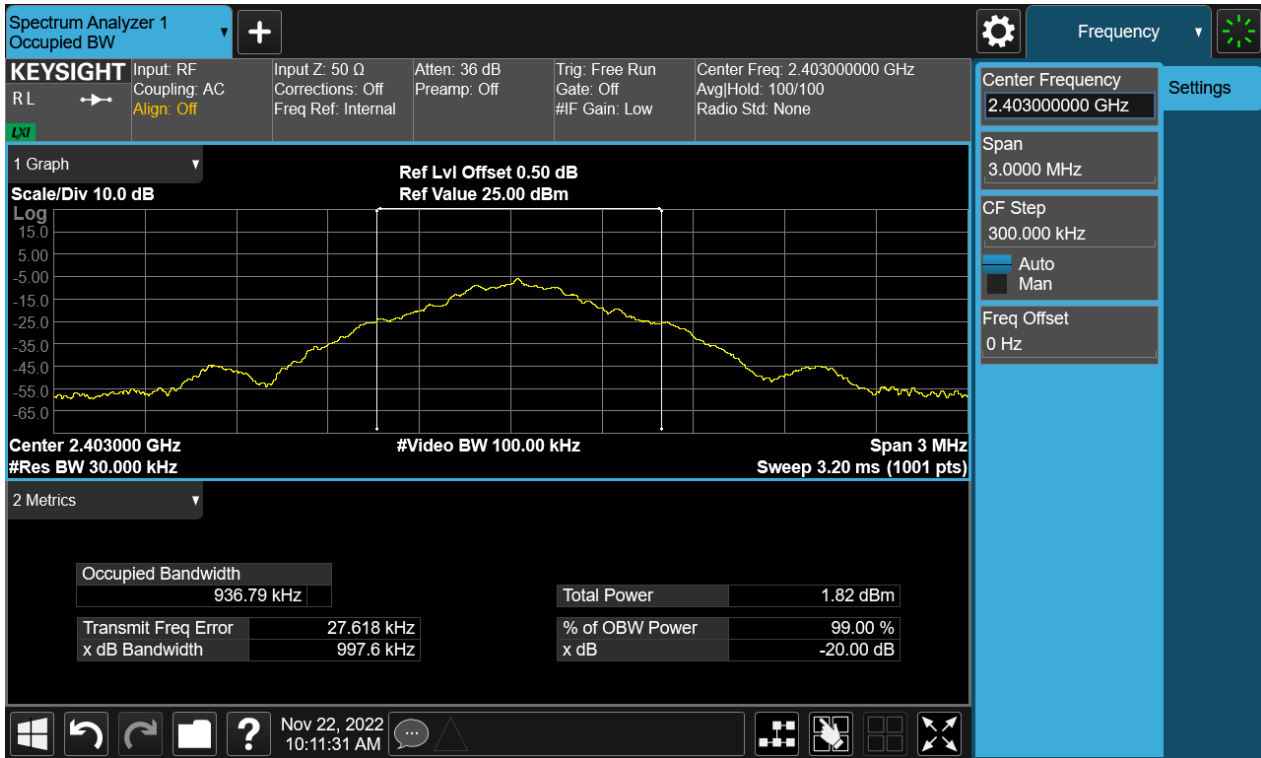
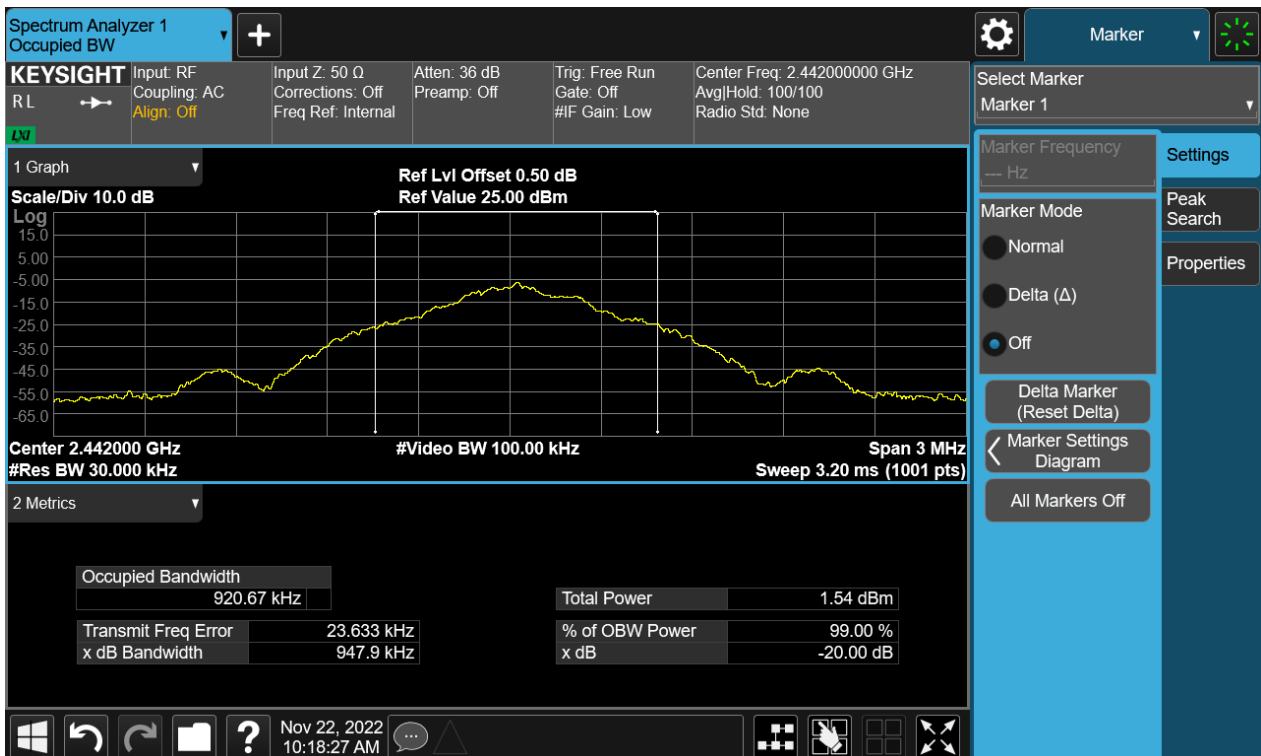


Figure 30: The plots of 20dB Bandwidth and 99% Bandwidth, 2442MHz



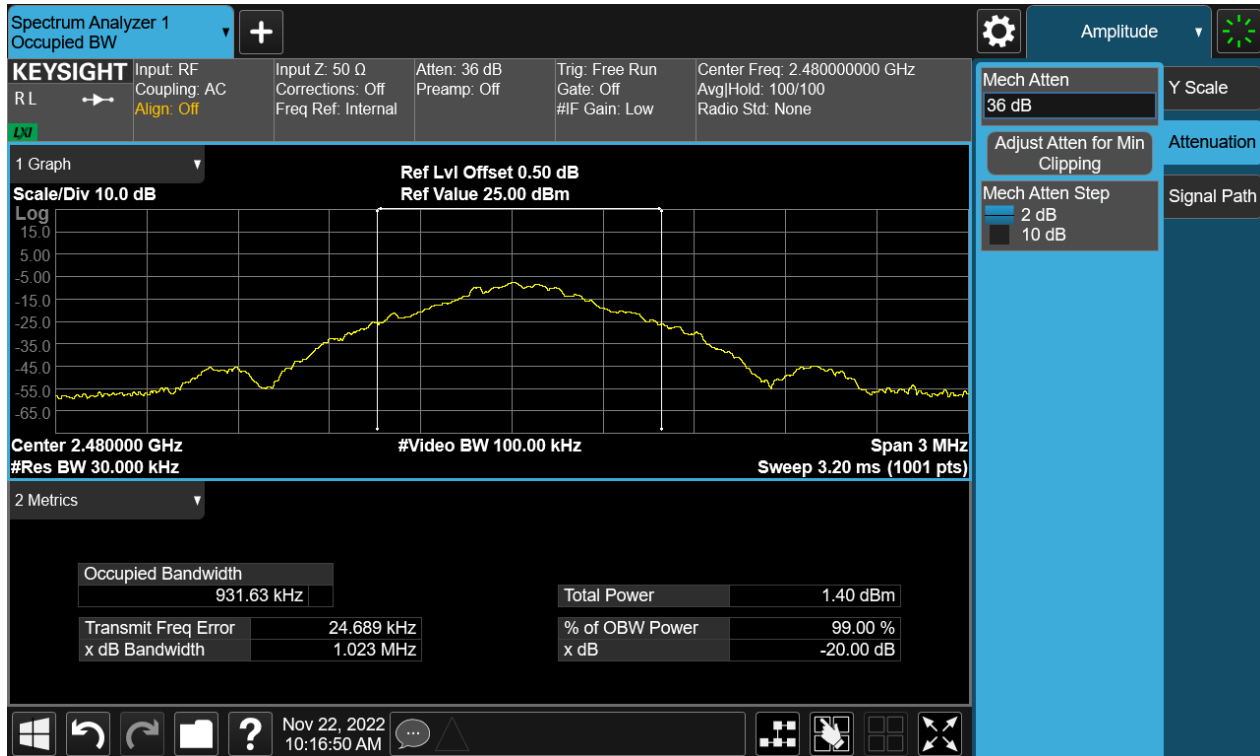
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 42 of 49

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

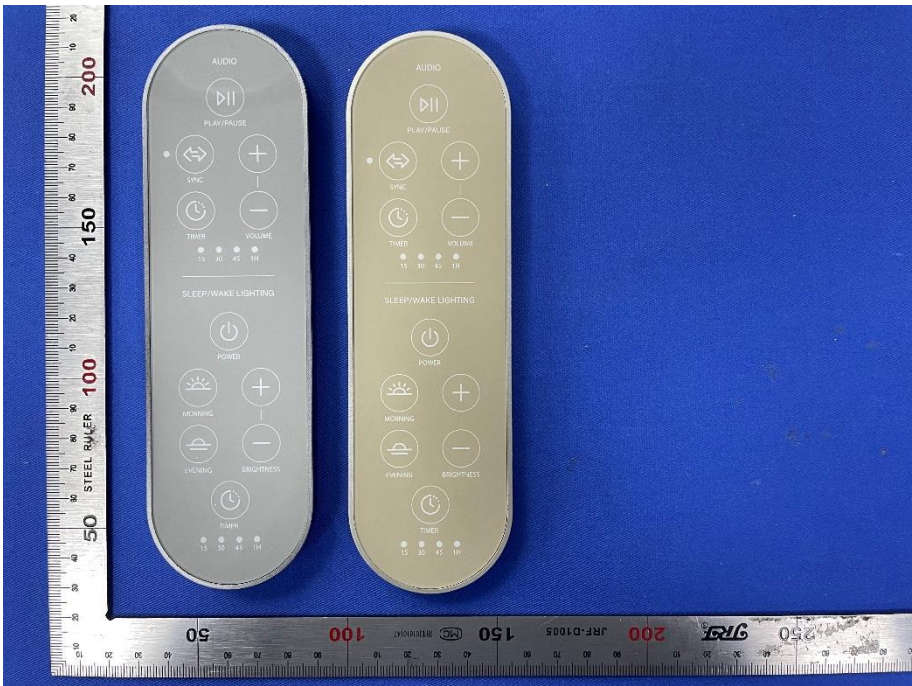


TEST REPORT

Report No.: SHE22110068-02AE Date: 2022-11-25 Page 43 of 49

5 Appendixes

5.1 Photographs of the Sample



Two colors of the sample-Front



Two colors of the sample-Rear

TEST REPORT

Report No.:

SHE22110068-02AE

Date: 2022-11-25

Page 44 of 49



Front of the sample



Back of the sample

TEST REPORT

Report No.:

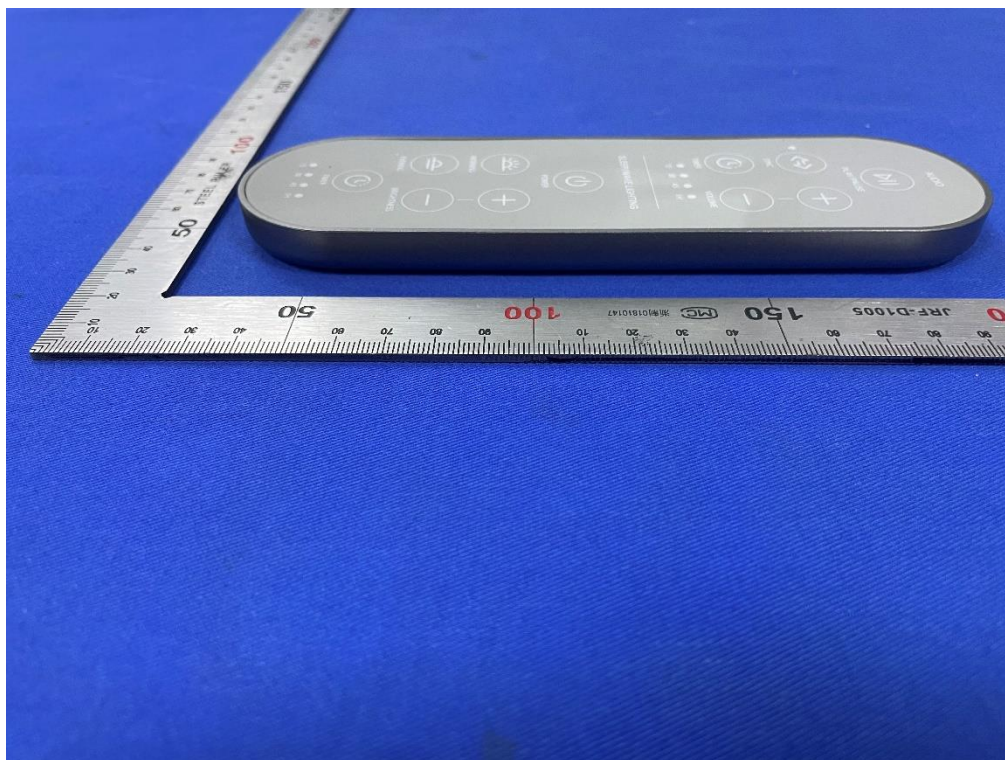
SHE22110068-02AE

Date: 2022-11-25

Page 45 of 49



Left of the sample



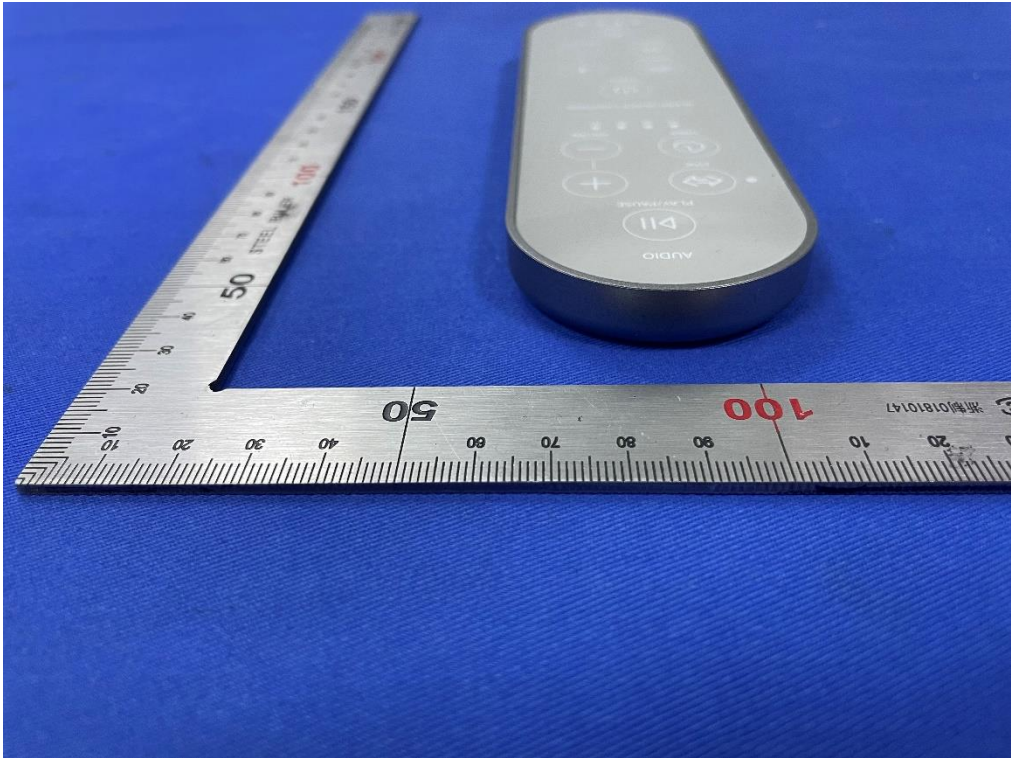
Right of the sample

TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 46 of 49



Top of the sample



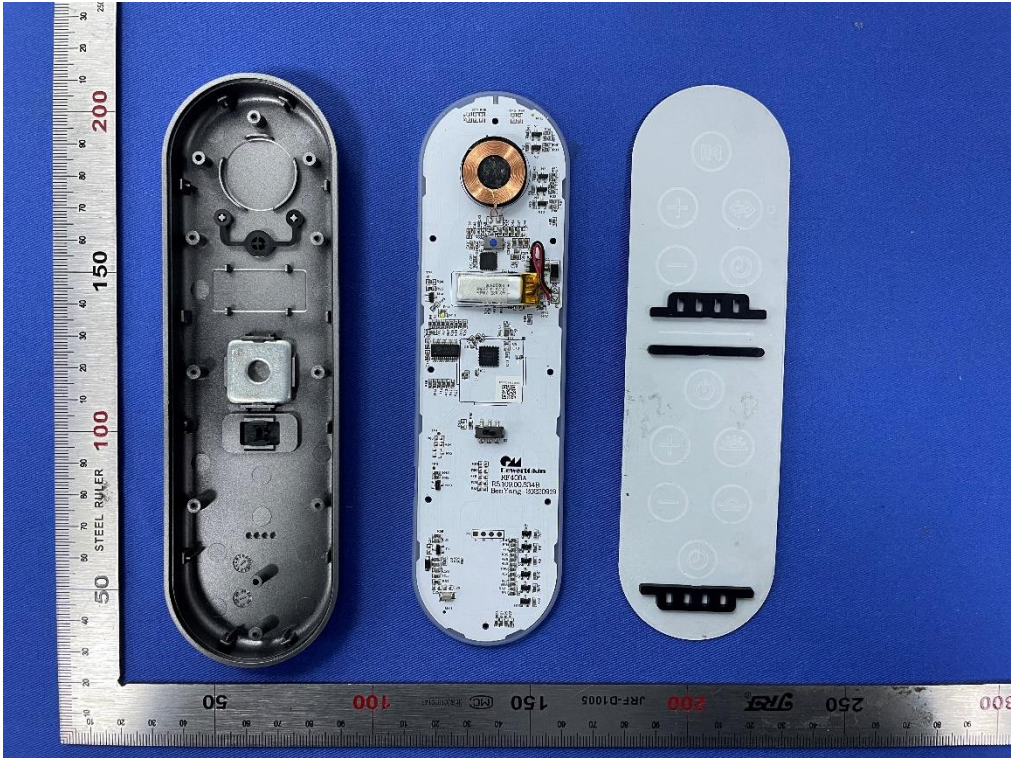
Bottom of the sample

TEST REPORT

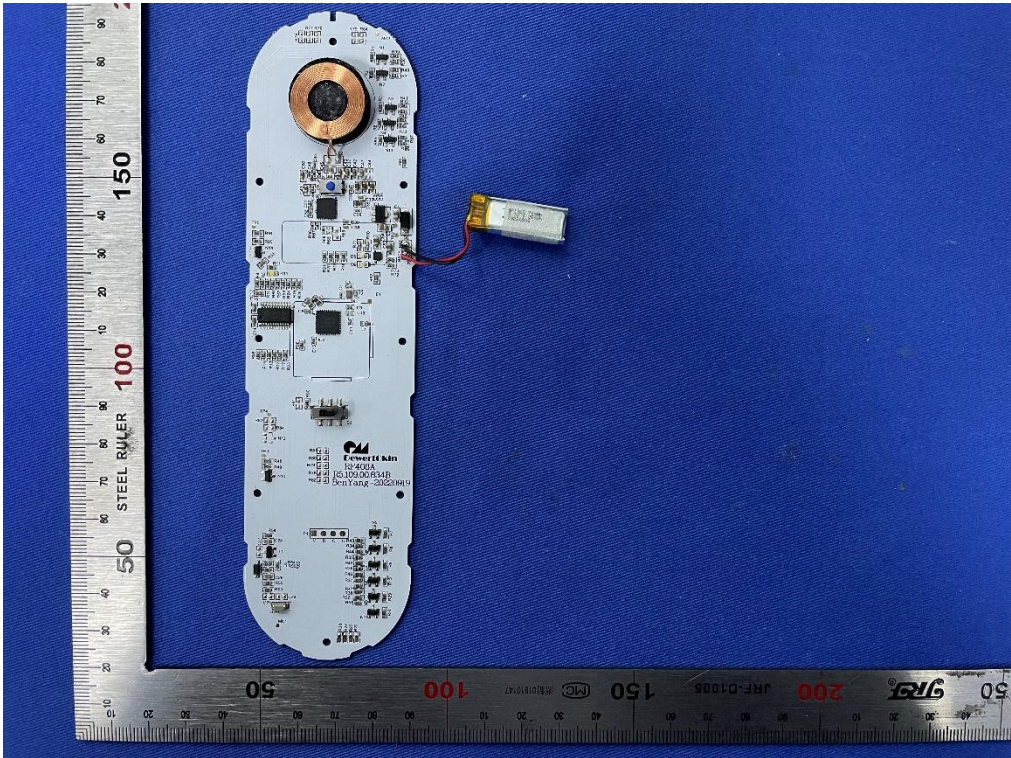
Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 47 of 49



Open of the sample



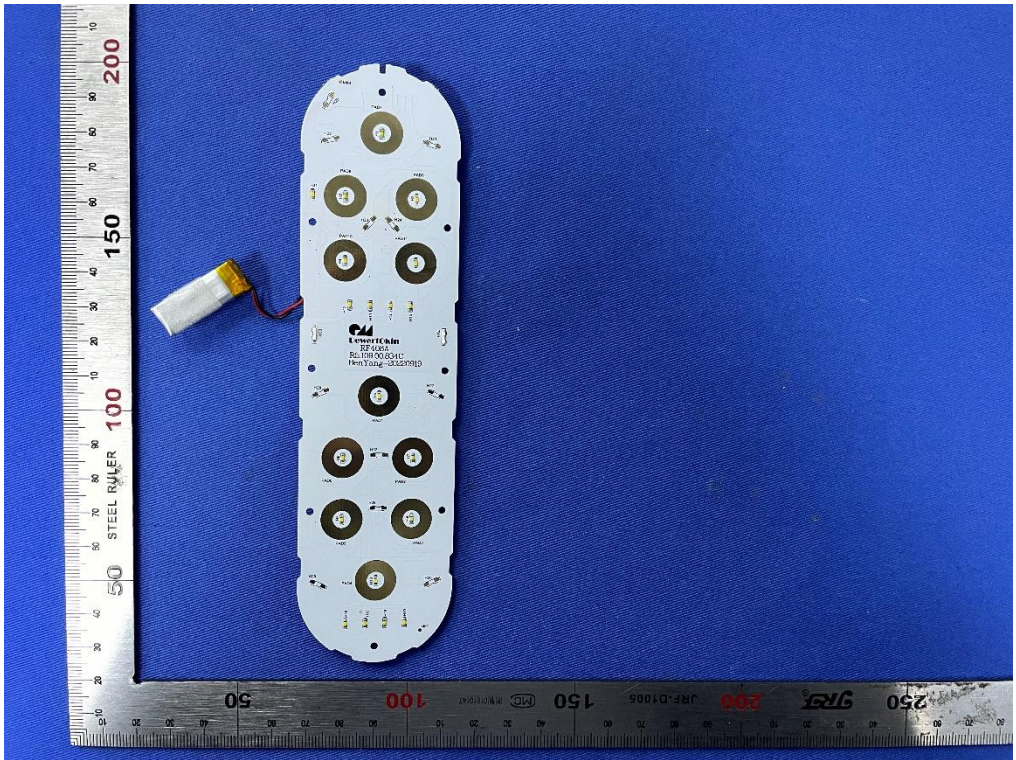
Internal-1 of the sample

TEST REPORT

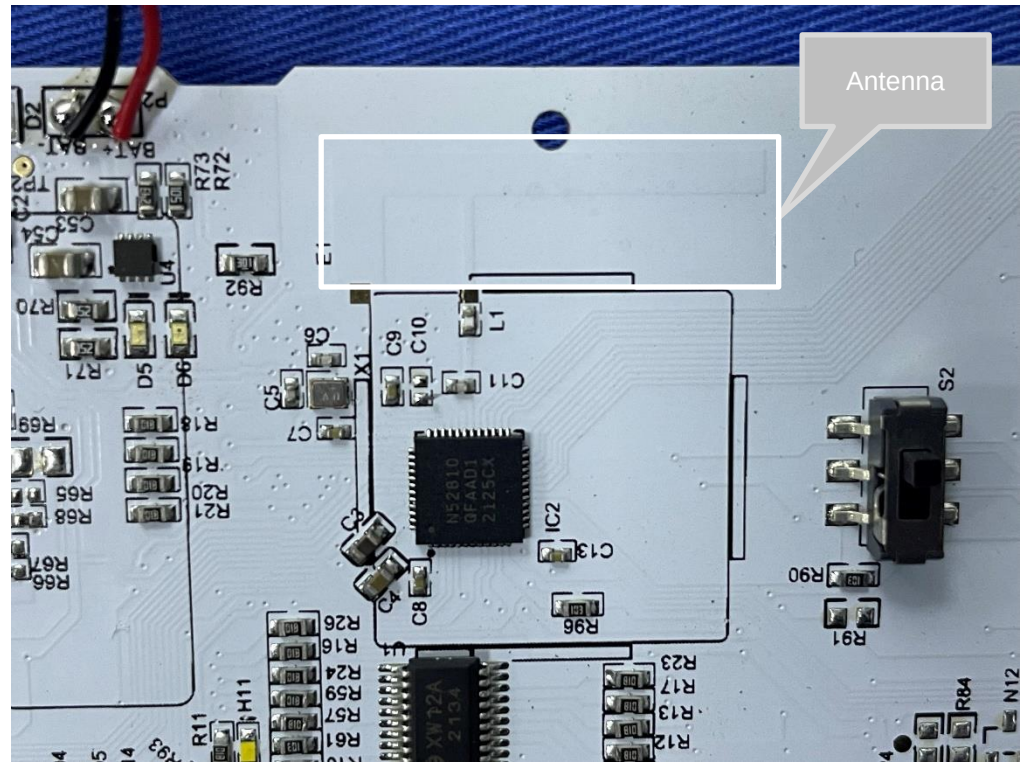
Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 48 of 49



Internal-2 of the sample



Antenna position of the sample

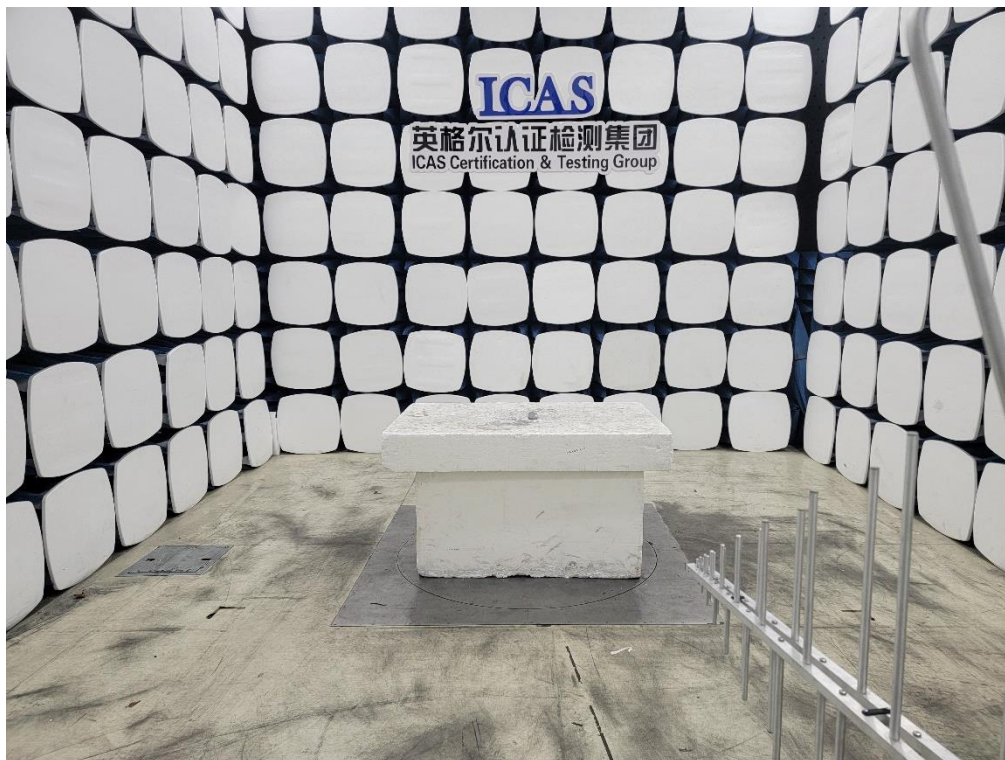
TEST REPORT

Report No.: SHE22110068-02AE

Date: 2022-11-25

Page 49 of 49

5.2 Set-up for Spurious Emissions below 1GHz



5.3 Set-up for Spurious Emissions above 1GHz



End of the report