

TEST REPORT

Report No.: SHE26060039-02CE

Date: 2026-08-05

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Applicant : Keeson Technology Corporation Limited
Address of Applicant : No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province, China.

Product Name : REMOTE CONTROL
Brand Name : N/A
Model Name : RC304E, RC304D
Sample Acquisition Method : Sent by Client
Sample No. : E26060039-01#01
E26060039-01#02

FCC ID : 2AK23RC304DE
ISED Number : 22406-RC304DE

Standards : FCC CFR47 Part 15.247, Subpart C
RSS-Gen (Issue 5, Amd.1-Mar. 2019+Amd.2-Feb. 2021)
RSS-247 (Issue 4, July 24, 2025)

Date of Receipt : 2026-06-22
Date of Test : 2026-06-22 ~ 2026-06-24
2026-08-04
Date of Issue : 2026-08-05

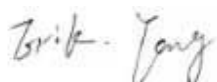
Remark:

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.

ISSUED BY:

Shanghai Ingeer Testing Technology Co., Ltd.

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

ISED CAB identifier #	CN0081
Company number #	25174
Company Name	Shanghai Ingeer Testing Technology Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
FCC Registration #	246204
FCC Designation Number	CN1262

1.2 Details of Application

Applicant Company Name	Keeson Technology Corporation Limited
Applicant Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Contact Person	Sam xu
Telephone	+86 18279170755
Email	Sam.Xu@keeson.com
Manufacturer Company Name	Aige Intelligent Technology(Jiaxing)Co.,Ltd.
Manufacturer Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.
Factory Company Name	Aige Intelligent Technology(Jiaxing)Co.,Ltd.
Factory Company Address	No.1508, Xiushui Road, WangJiangjing Town, Xiuzhou District, Jiaxing City, Zhejiang Province,China.

1.3 Details of EUT

Product Name	REMOTE CONTROL
Brand Name	N/A
Test Model Name	RC304E
Series Model Name	RC304D
Difference Description	All the same except for the model name and number of buttons on the shell and the position of silk screen icon
FCC ID	2AK23RC304DE
ISED Number	22406-RC304DE
Frequency Range	2403MHz ~ 2480MHz
Number of Channels	78
Modulation Type	GFSK
Max RF Output Power-Conducted	-6.34dBm
Antenna Type	PCB Antenna
Antenna Gain	0dBi

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Extreme Temperature Range	-10°C to +45°C
Test Voltage	DC 4.5V by battery
Hardware Version	V1.0
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
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
RSS-Gen(Issue 5, Amd.1-Mar. 2019 +Amd.2-Feb. 2021)	General Requirements for Compliance of Radio Apparatus
RSS-247(Issue 4, July 24, 2025)	RSS-247 — Digital Transmission Systems, Frequency Hopping Systems and Licence- Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands

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	FCC Part 15.247(b)(4), Part 15.203	RSS-GEN 6.8	PASS
Maximum peak conducted output power and E.I.R.P	FCC Part 15.247(b)(3)	RSS-247 6.3.2	PASS
6dB Bandwidth and 99% Bandwidth	FCC Part 15.247(a)(2)	RSS-247 6.3.1 RSS-Gen 6.7	PASS
Maximum conducted output power spectral density	FCC Part 15.247(e)	RSS-247 6.3.1	PASS
Conducted Spurious Emission & Authorized-band band-edge	FCC Part 15.247(d)	RSS-247 6.6	PASS
Radiated Emission	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.9	PASS
Band Edge (Restricted-band band-edge)	FCC Part 15.247(d), 15.205, 15.209	RSS-GEN 8.10	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 4.5V supply by battery)

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2 Test Condition

2.1 Environmental conditions

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

Note: Actual values will be recorded during the test.

2.2 Equipment List

During the testing period (2026-06-22 ~ 2026-06-24)

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2025-06-30	2026-06-29
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2026-06-10	2027-06-09
Signal Generator	Rohde & Schwarz	SMR27	100184	2025-06-30	2026-06-29
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2026-06-10	2027-06-09
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2025-03-24	2027-03-23
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2025-06-22	2027-06-21
Loop Antenna	SCHWARZBECK	FMZB 1513	/	2025-06-23	2027-06-22
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2025-06-22	2027-06-21
Broadband Preamplifier	SCHWARZBECK	BBV 9718	346	2026-06-10	2027-06-09
EMC chamber 9*6*6(L*W*H)	CHANGNING	966	N/A	2025-06-10	2028-06-09
Shielded Enclosure 8*5*4(L*W*H)	CHANGNING	854	N/A	2025-06-10	2028-06-09
RE Cable 1(Below 1G)	--	N/A	N/A	2026-06-01	2027-05-31
RE Cable 2(Above 1G)	--	N/A	N/A	2026-06-01	2027-05-31
Test Software	BL	BL410_E	Version:1.0.0.122	N/A	N/A
Test Software	BL	BL410_R	Version:3.5.2.642	N/A	N/A

Test Date (2026-08-04)

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020B	MY59260184	2026-07-21	2027-07-20
Signal Generator	Rohde & Schwarz	SMR27	100184	2026-07-21	2027-07-20

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2.3 Measurement Uncertainty

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

Parameter		Uncertainty
Antenna Port Conducted Emission		$\pm 1.04\text{dB}$
Radiated Emission	< 1GHz	$\pm 5.00\text{dB}$
	> 1GHz	$\pm 5.46\text{dB}$
Occupied Channel Bandwidth		$\pm 39.26\text{KHz}$
Maximum Conducted Output Power		$\pm 1.06\text{dB}$
Maximum Conducted Output Power Spectral Density		$\pm 1.12\text{dB}$

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software to control EUT work in continuous transmitting 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

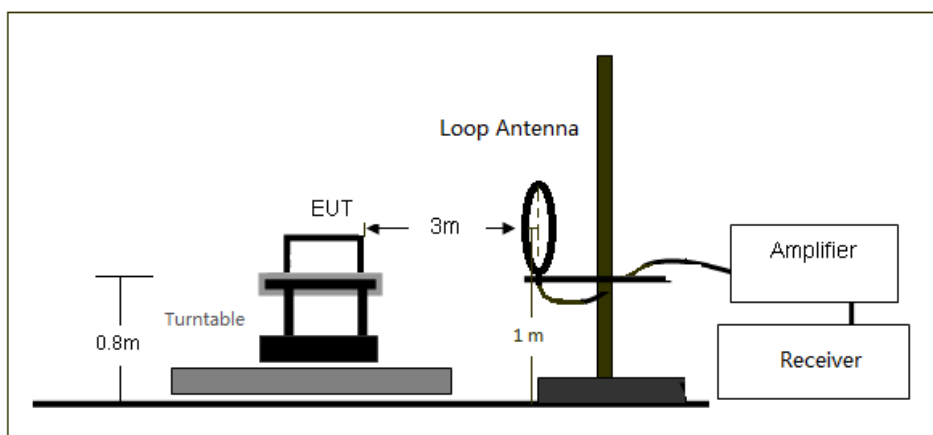
Description	Manufacturer	Model No.	Serial No.
Welded SMA RF Cable	YZ-Link	RF10CM	N/A

3.3 Support Software

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

3.4 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test Below 30MHz



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Diagram of Measurement Configuration for Radiation Test 30MHz-1000MHz

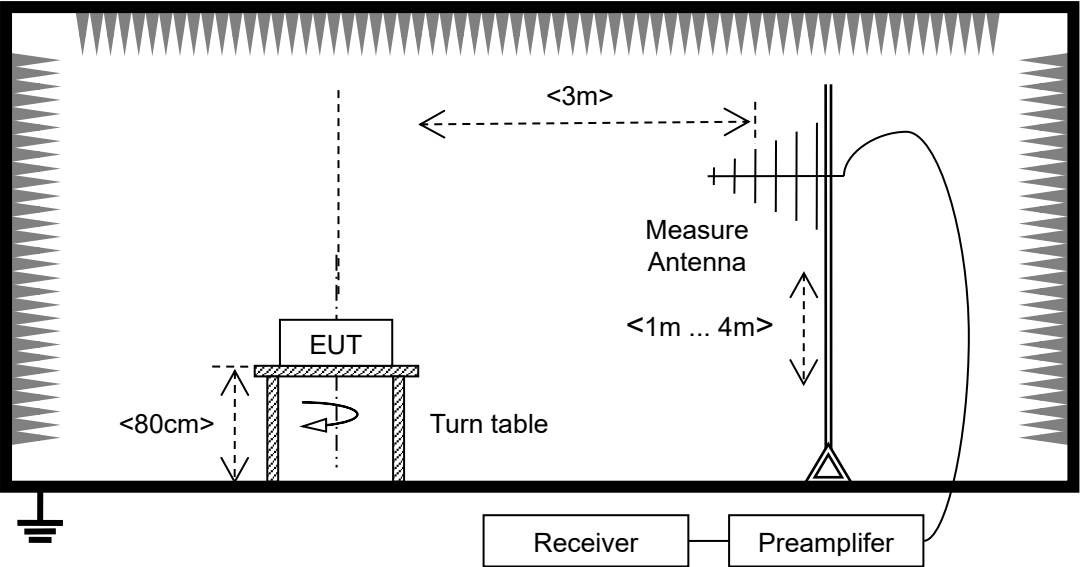


Diagram of Measurement Configuration for Radiation Test above 1000MHz

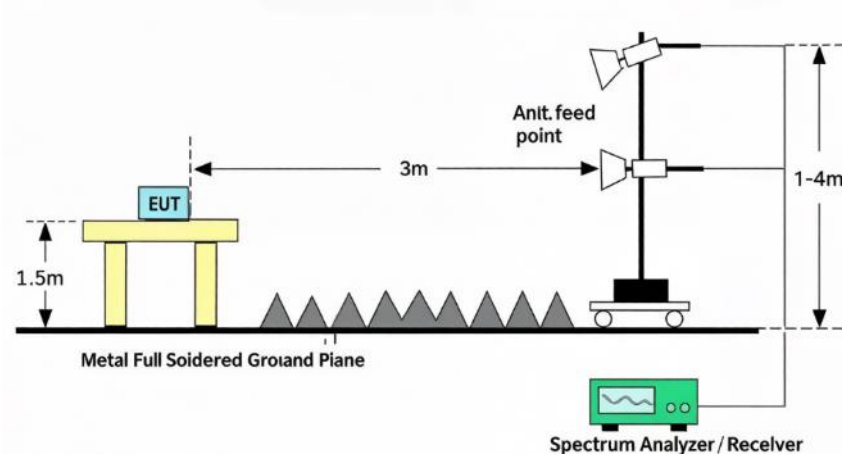


Diagram of Measurement Equipment Configuration for Transmitter Test



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: FCC Part 15.247(b)(4), 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. In addition, If transmitting antennas of directional gain greater than 6dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

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

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

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4.1.2 Maximum peak conducted output power and E.I.R.P

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3), RSS-247 6.3.2
Requirement : ANSI C63.10 Clause 11.9.1.1,
KDB 558074 D01 v05r02, Clause 8.3.1
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 24.3°C
Relative humidity : 51.0%

Table 1: Maximum peak conducted output power

Test Mode	Test Channel (MHz)	Maximum peak conducted output power		Limit (W)
		(dBm)	(mW)	
GFSK	2403	-6.34	0.232	< 1
	2442	-7.28	0.187	
	2480	-7.93	0.161	

Table 2: E.I.R.P

Test Mode	Test Channel (MHz)	E.I.R.P		Limit (W)
		(dBm)	(mW)	
GFSK	2403	-6.34	0.232	< 4
	2442	-7.28	0.187	
	2480	-7.93	0.161	

Note: The antenna gain is 0dBi

E.I.R.P= peak conducted output power+antenna gain

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Figure 1: The plots of Peak Output Power, 2403MHz

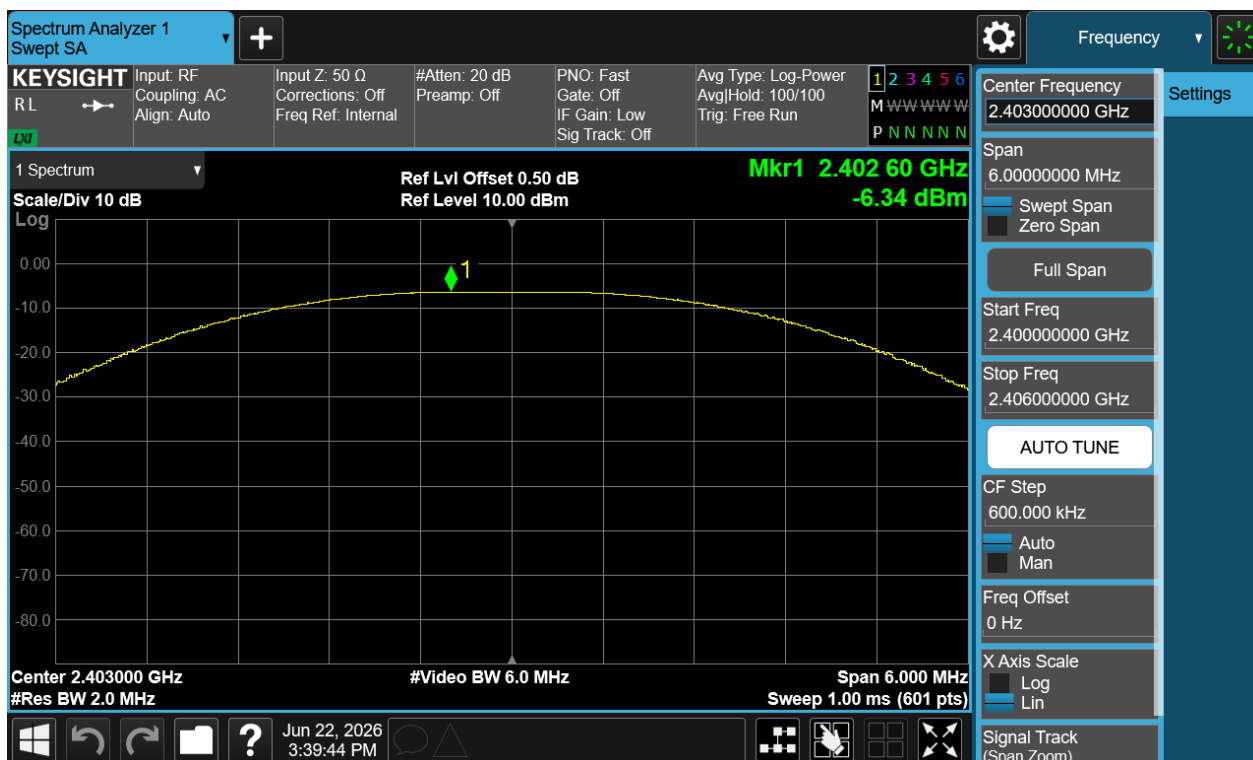
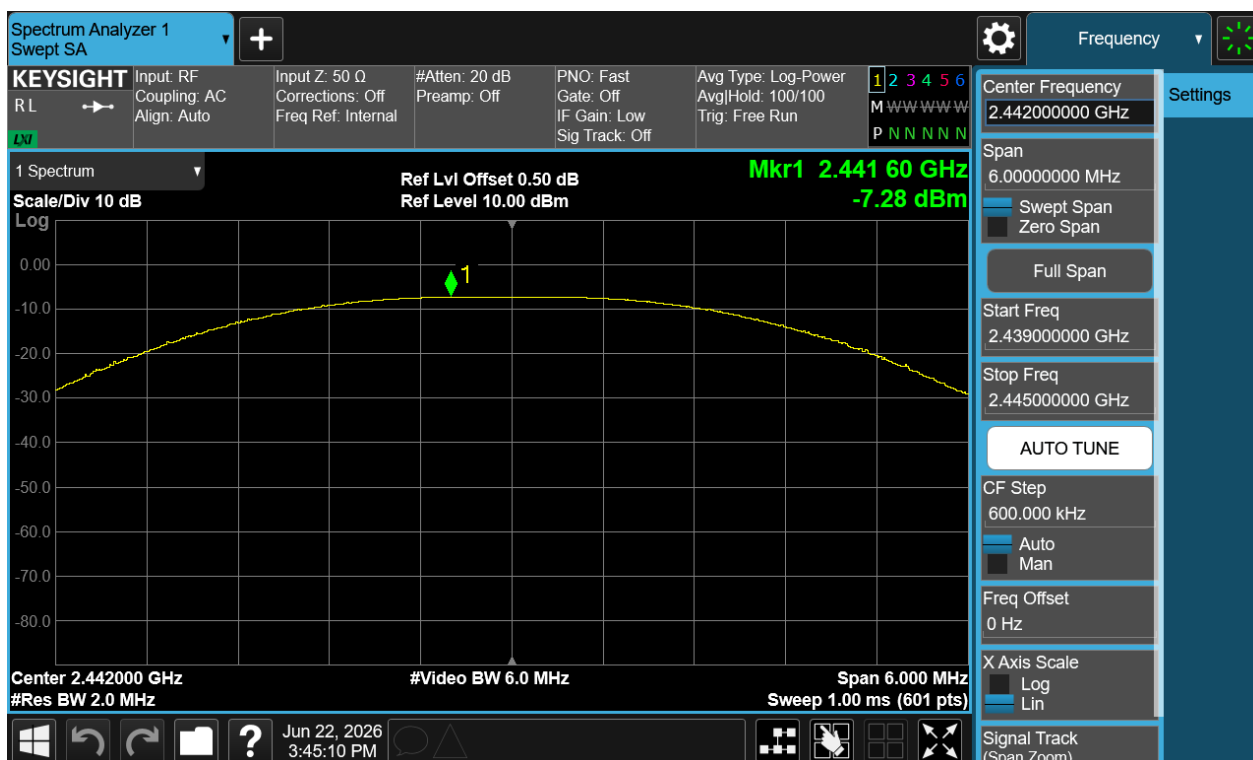


Figure 2: The plots of Peak Output Power, 2442MHz



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Figure 3: The plots of Peak Output Power, 2480MHz



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4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard

: FCC Part 15.247(a)(2), RSS-247 6.3.1
RSS-Gen 6.7

Requirement

: ANSI C63.10 Clause 11.8.1
KDB 558074 D01 v05r02, Clause 8.2

Kind of test site

: Shielded room

Test setup

Test Channel

: Low/Middle/High

Operation Mode

: A.1.a

Ambient temperature

: 24.3°C

Relative humidity

: 51.0%

Table 3: 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Bandwidth Limit
GFSK	2403	0.8942	1.8165	>0.5 MHz
	2442	0.7938	1.8120	
	2480	0.7722	1.8015	

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Figure 4: The plots of 6dB Bandwidth, 2403MHz



99% Bandwidth, 2403MHz



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Figure 5: The plots of 6dB Bandwidth, 2442MHz



99% Bandwidth, 2442MHz



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Figure 6: The plots of 6dB Bandwidth, 2480MHz



99% Bandwidth, 2480MHz



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4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e), RSS-247 6.3.1

Requirement : ANSI C63.10 Clause 11.10.2,
KDB 558074 D01 v05r02, Clause 8.4

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 24.3°C

Relative humidity : 51.0%

Table 4: Maximum conducted output power spectral density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
GFSK	2403	-19.43	8
	2442	-21.95	
	2480	-20.07	

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Figure 7: The plots of Power Spectral Density, 2403MHz

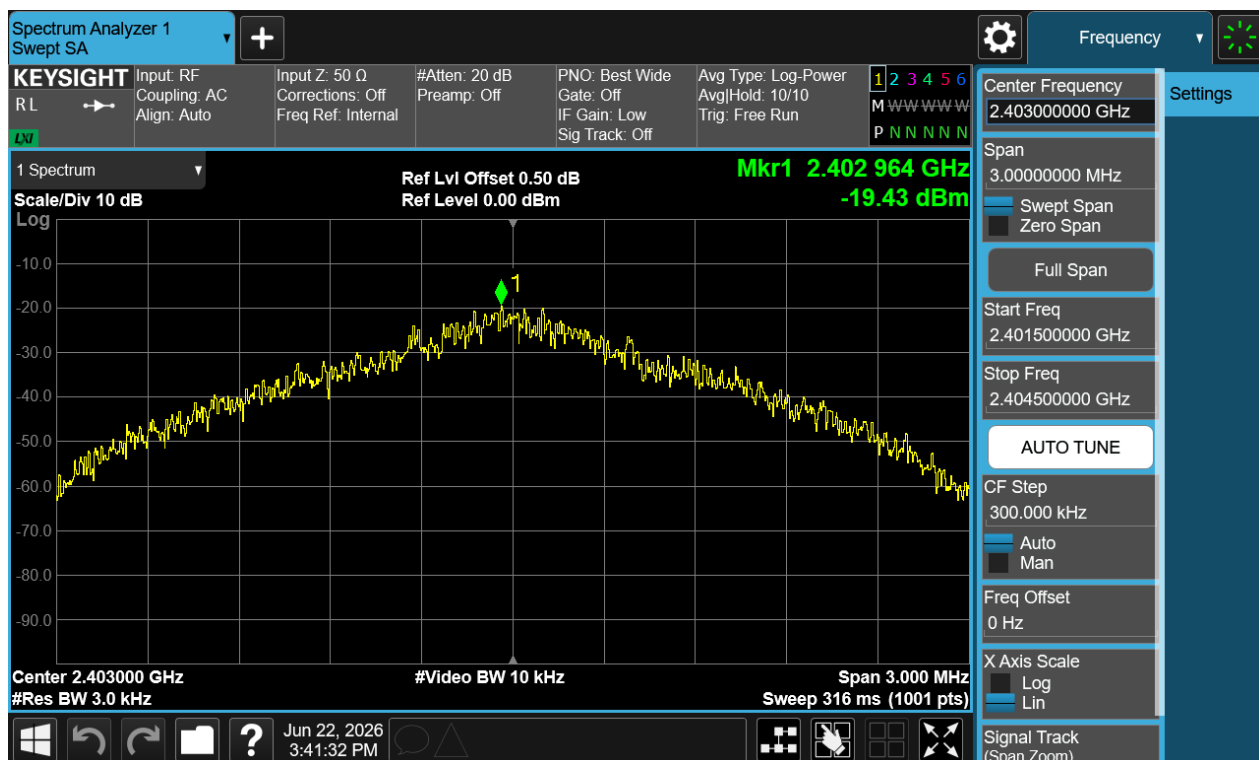
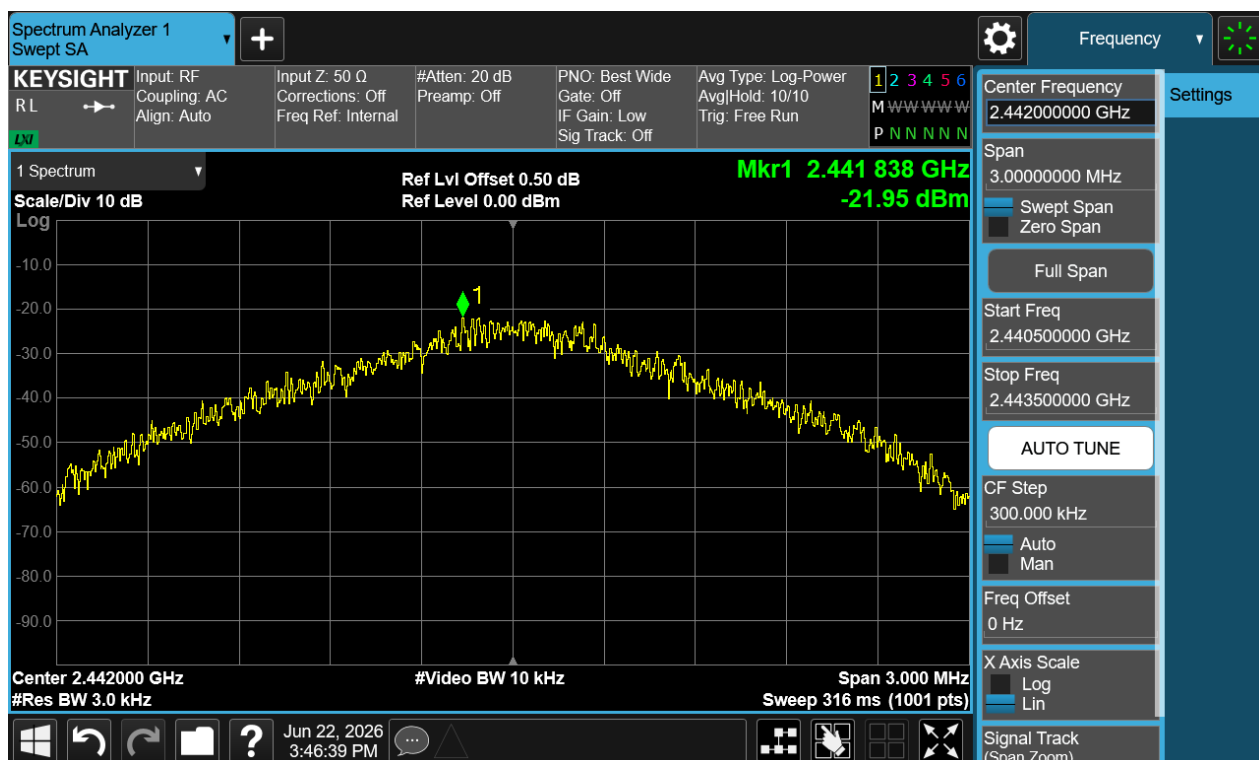


Figure 8: The plots of Power Spectral Density, 2442MHz



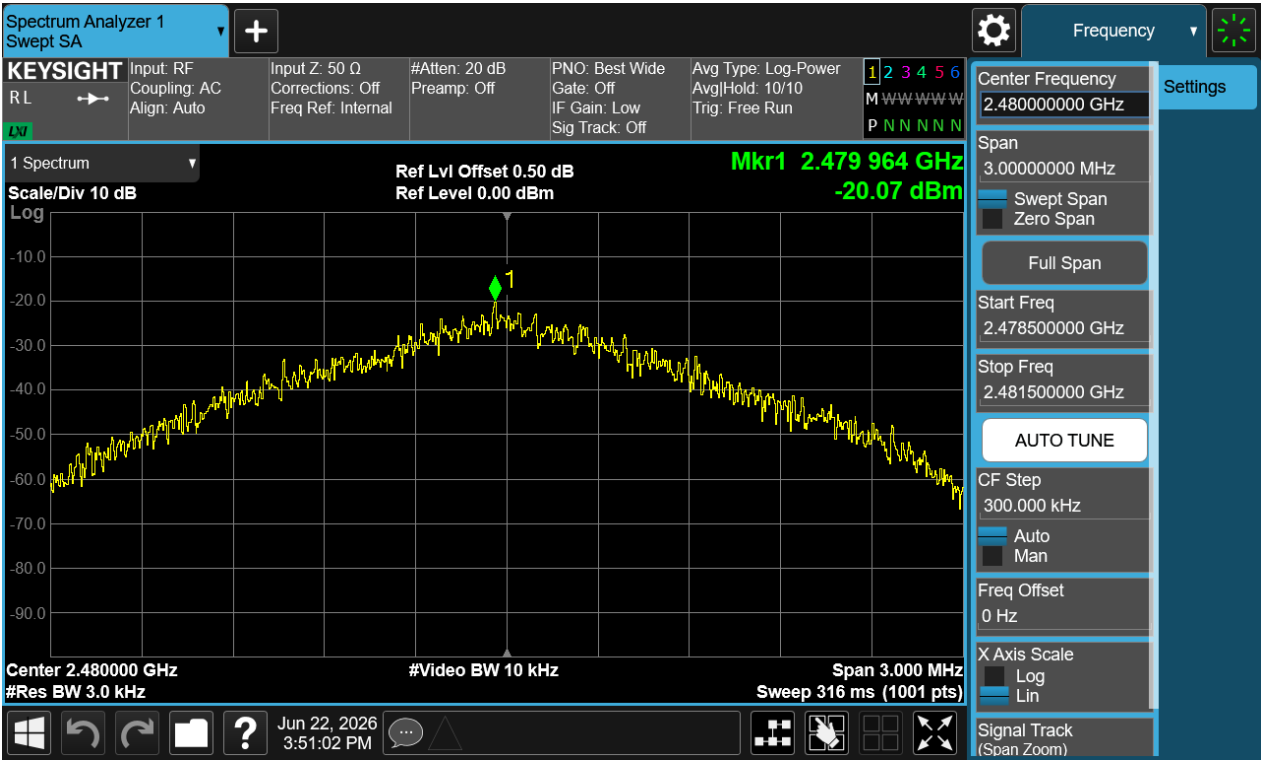
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Figure 9: The plots of Power Spectral Density, 2480MHz



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d), RSS-247 6.6
Requirement	: ANSI C63.10 Clause 11.11.1 KDB 558074 D01 v05r02, Clause 8.5
Kind of test site	: Shielded room

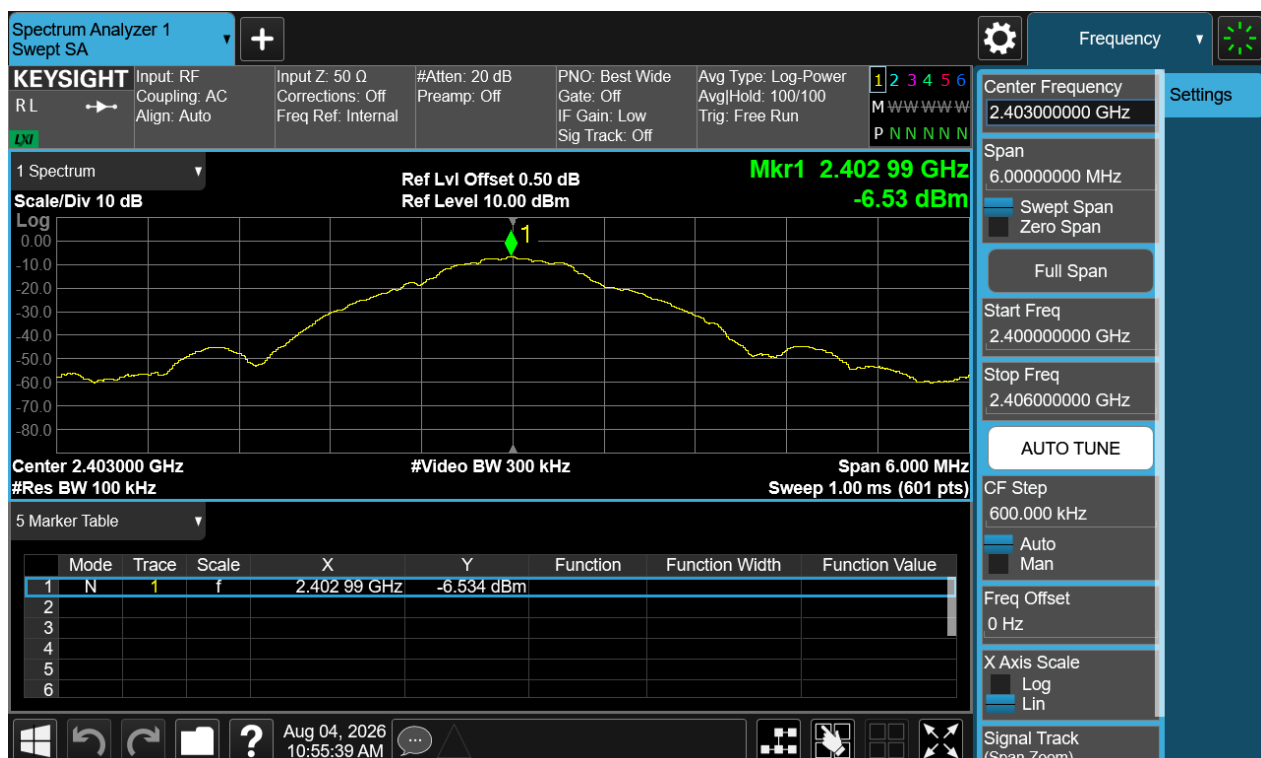
Test setup

Test Channel	: Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	: A.1.a
Ambient temperature	: 24.3°C
Relative humidity	: 51.0%

For details refer to following test plot.

Note: The conducted spurious emissions test has compensated for the maximum line loss measurement, and the recorded data represents the worst-case scenario.

Figure 10: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2403MHz Carrier Level



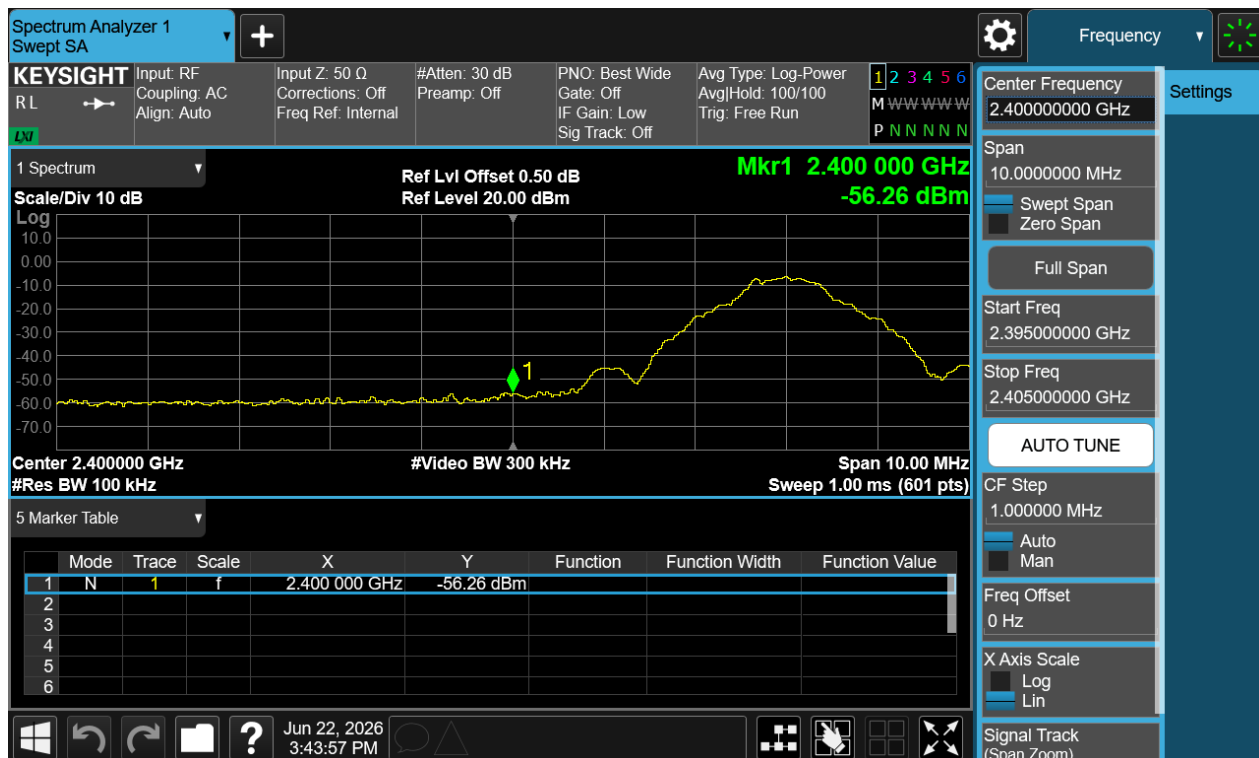
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Band Edge



Conducted spurious emissions 30MHz-25GHz

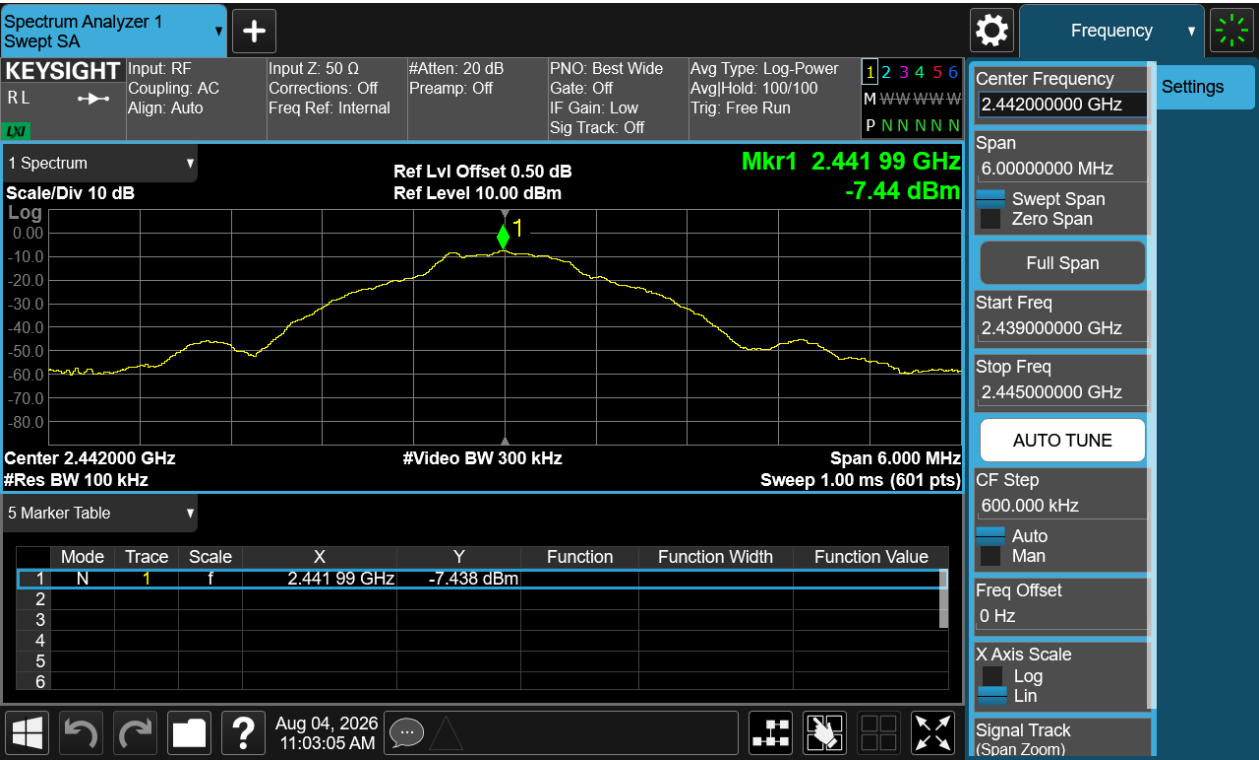


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Figure 11: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2442MHz Carrier Level



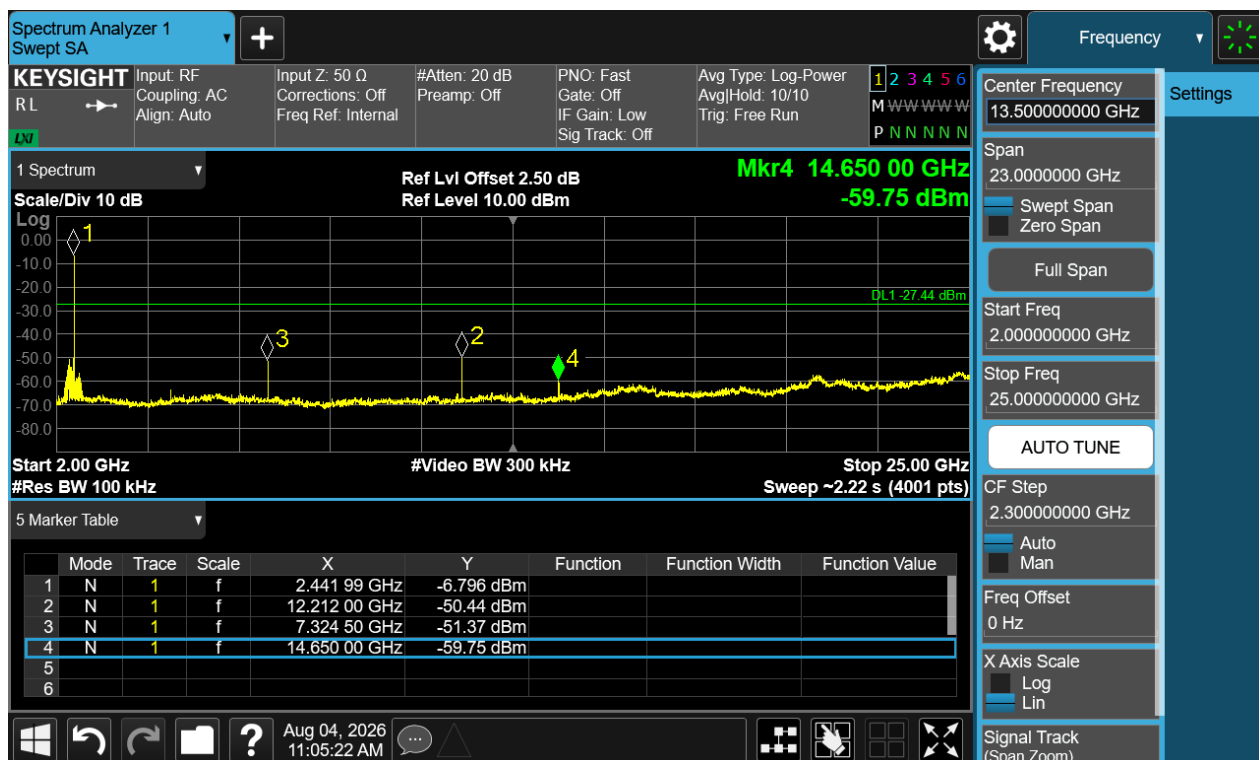
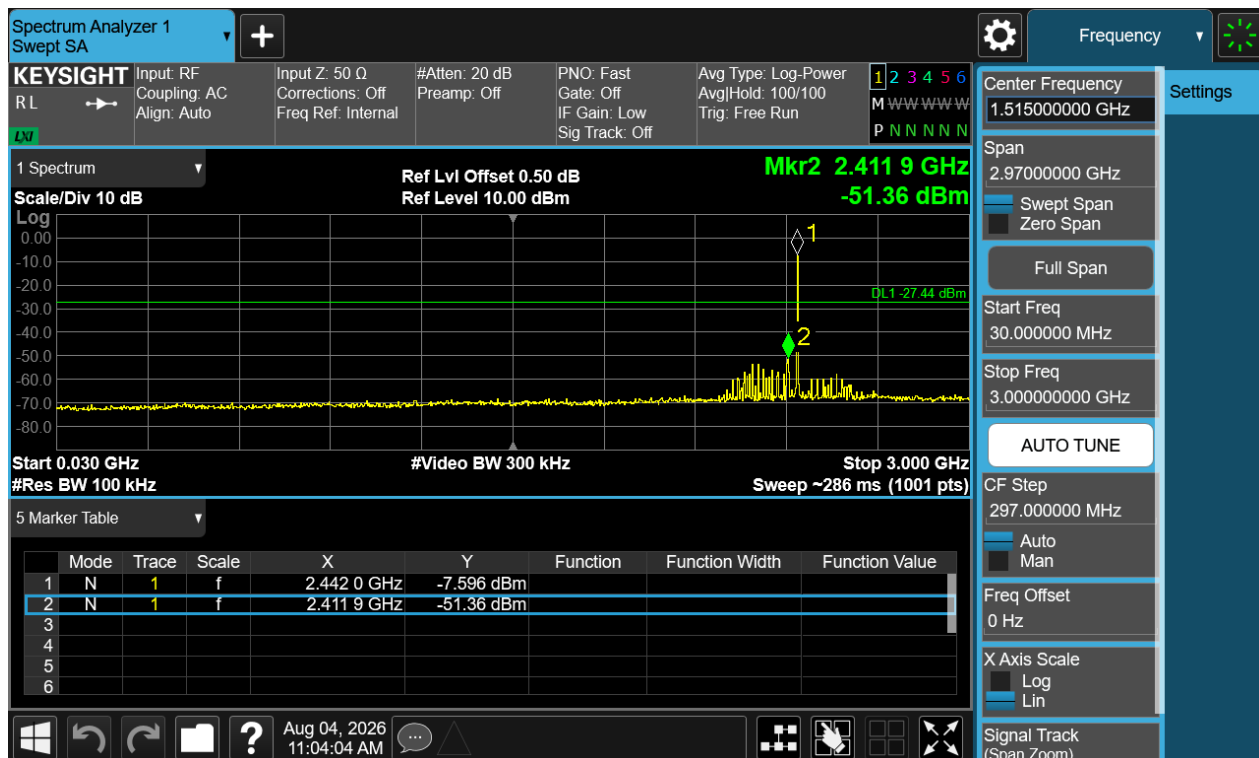
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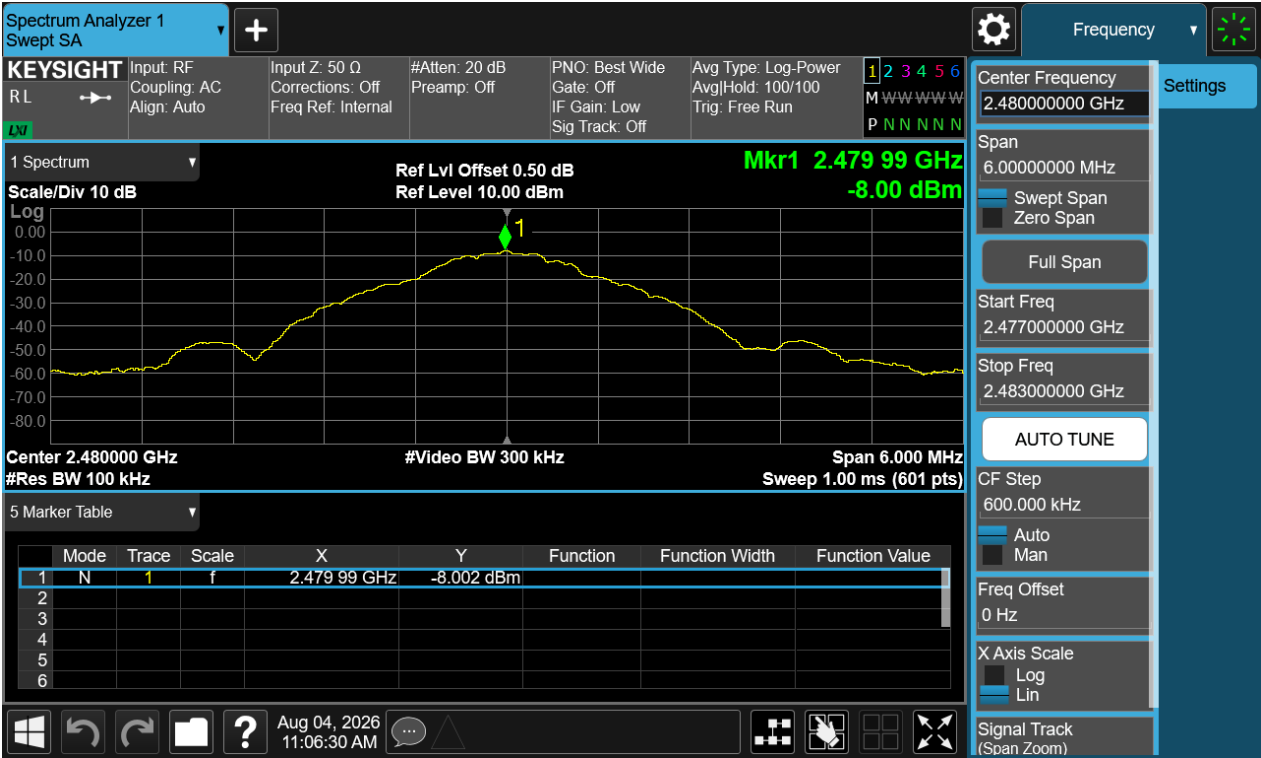
Conducted spurious emissions 30MHz-25GHz



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Figure 12: The plots of Conducted Spurious Emission & Authorized-band band-edge, 2480MHz Carrier Level



Band Edge



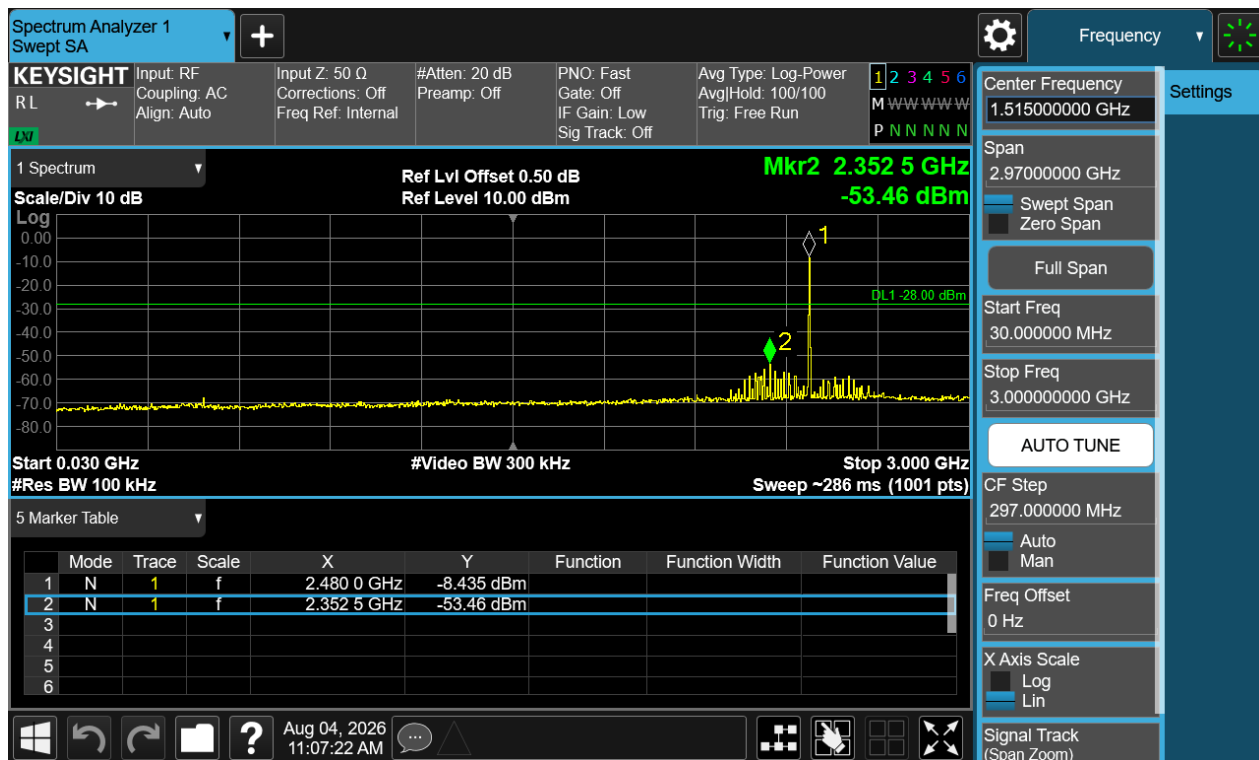
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Conducted spurious emissions 30MHz-25GHz



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4.1.6 Radiated Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209 RSS-GEN 8.9
Requirement	: ANSI C63.10 Clause 11.12.1, KDB 558074 D01 v05r02, Clause 8.6
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A
Ambient temperature	: 24.5°C
Relative humidity	: 50.0%

Notes

Test plots please refer to the annex document "SHE26060039-02CE DATA SRD-TX EXHIBIT A".

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. In addition, During 30MHz to 1GHz test frequency range, only the worst mode data was reported in this report.
2. 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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4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209 RSS-GEN 8.10
Requirement	: ANSI C63.10 Clause 11.12.3, KDB 558074 D01 v05r02, Clause 8.7
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1
Ambient temperature	: 24.5°C
Relative humidity	: 50.0%

Notes

Test plots please refer to the annex document "SHE26060039-02CE DATA SRD-TX EXHIBIT A".

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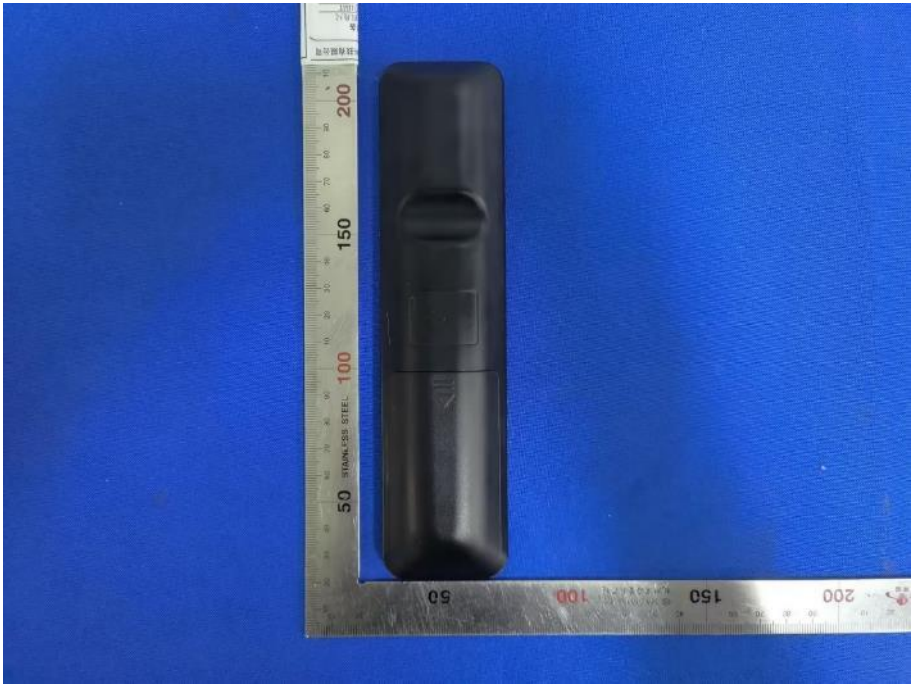
5 Appendixes

5.1 External Photo of the Sample

RC304E Model



Front of the sample



Rear 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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RC304D Model



Front of the sample



Rear of the sample

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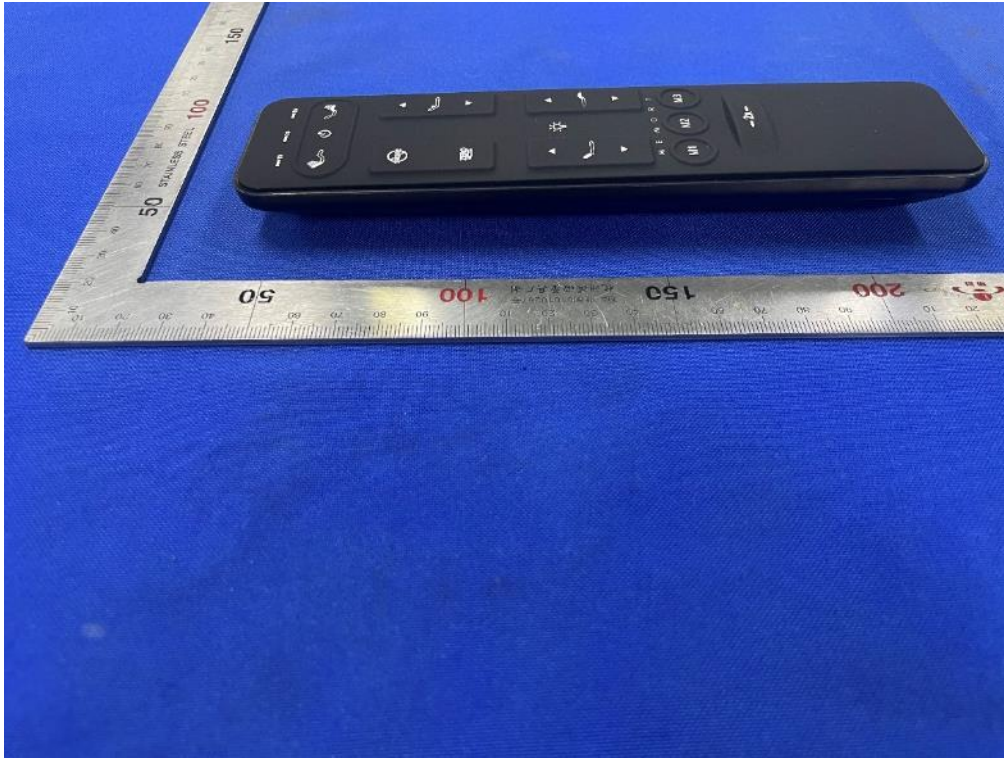
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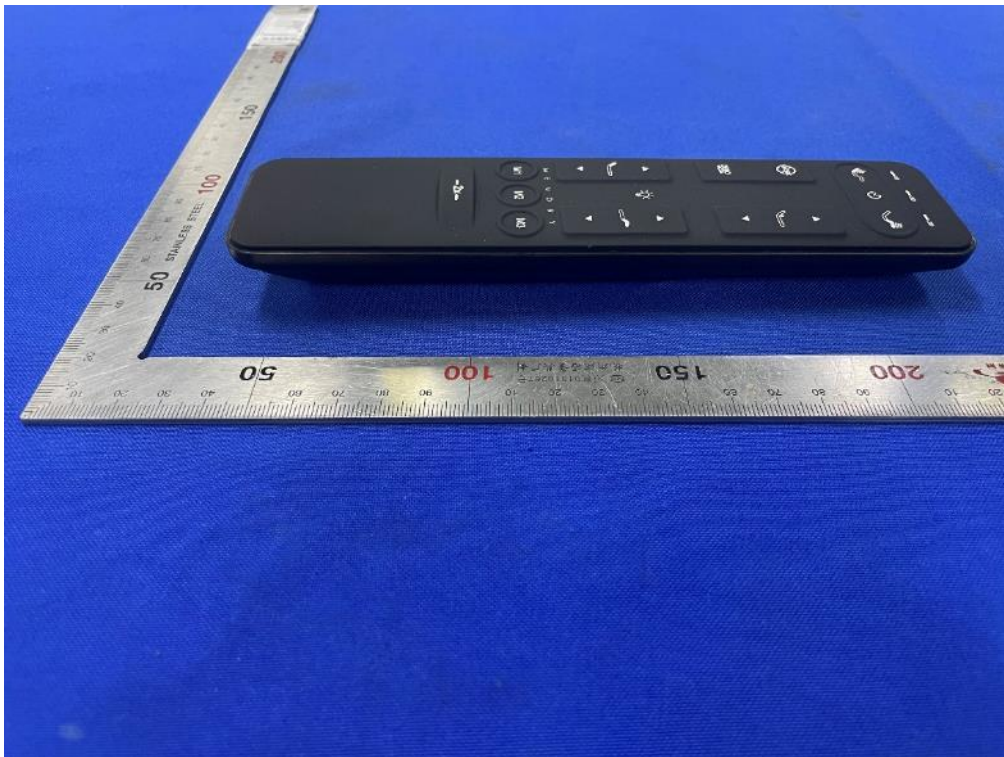
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Left of the sample



Right of the sample

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Top of the sample



Bottom of the sample

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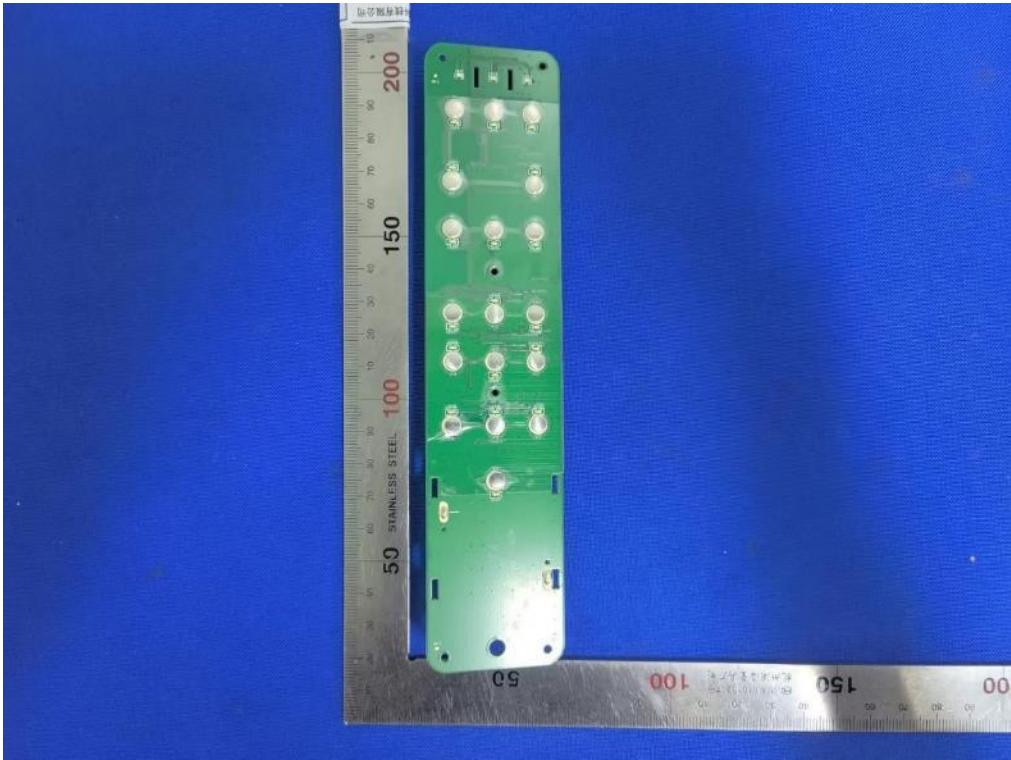
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5.2 Internal Photo of the Sample

RC304E Model

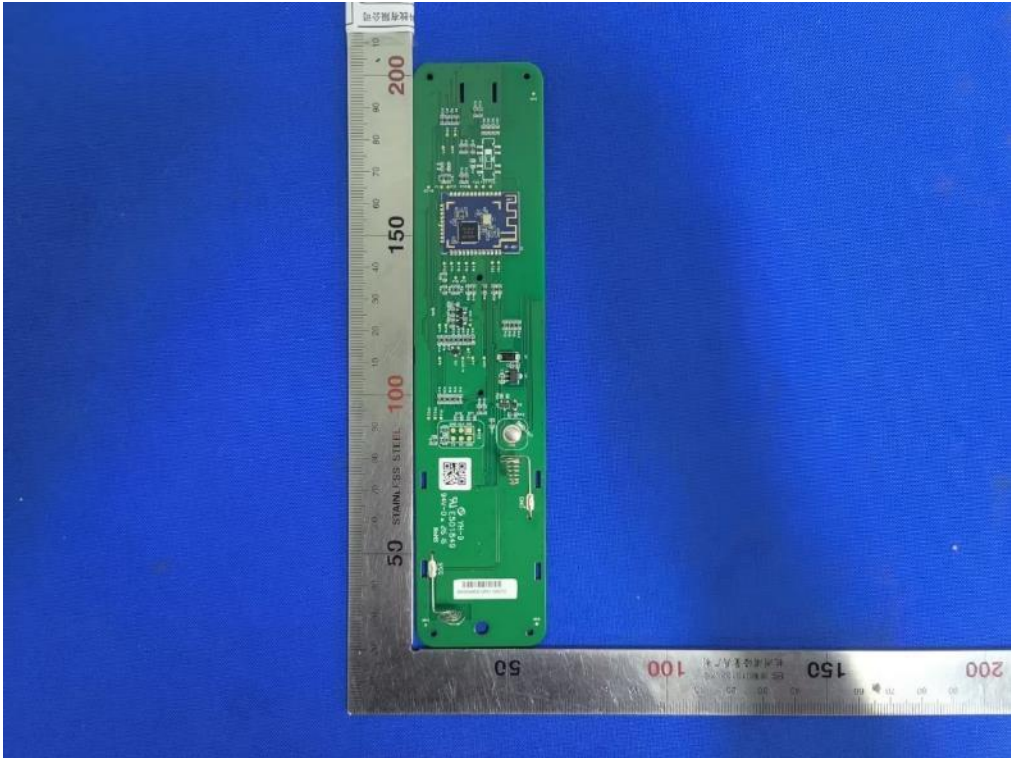


Open of the sample

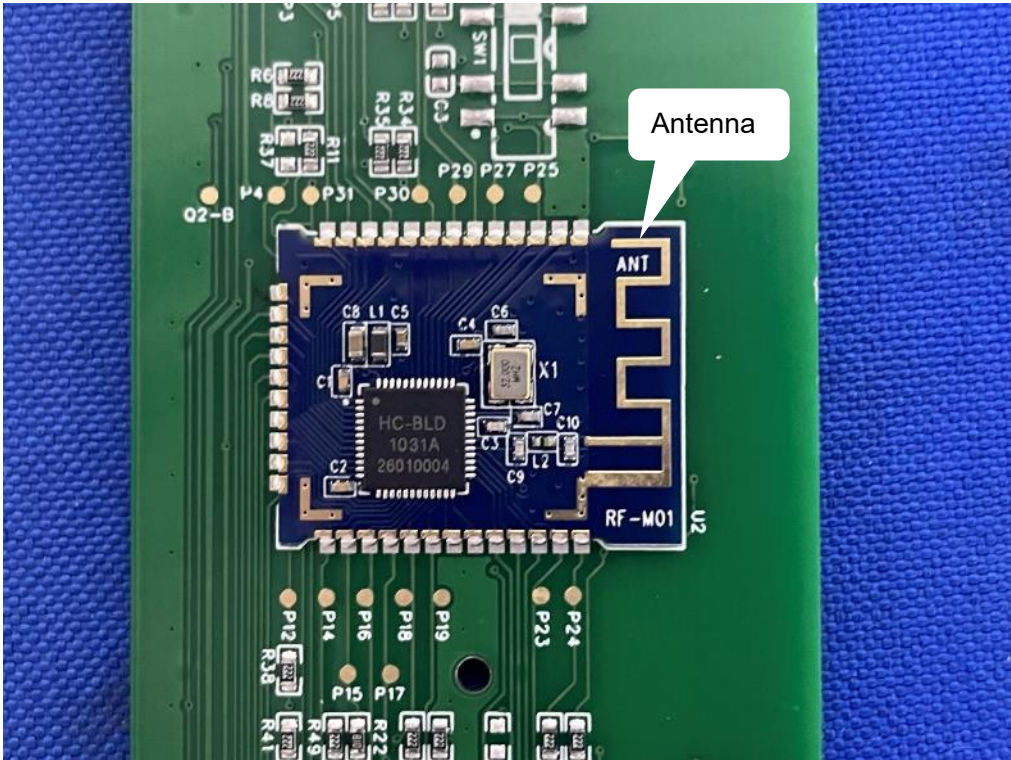


Internal photo-1 of the sample

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Internal photo-2 of the sample



Antenna position of the sample

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RC304D Model



Open of the sample



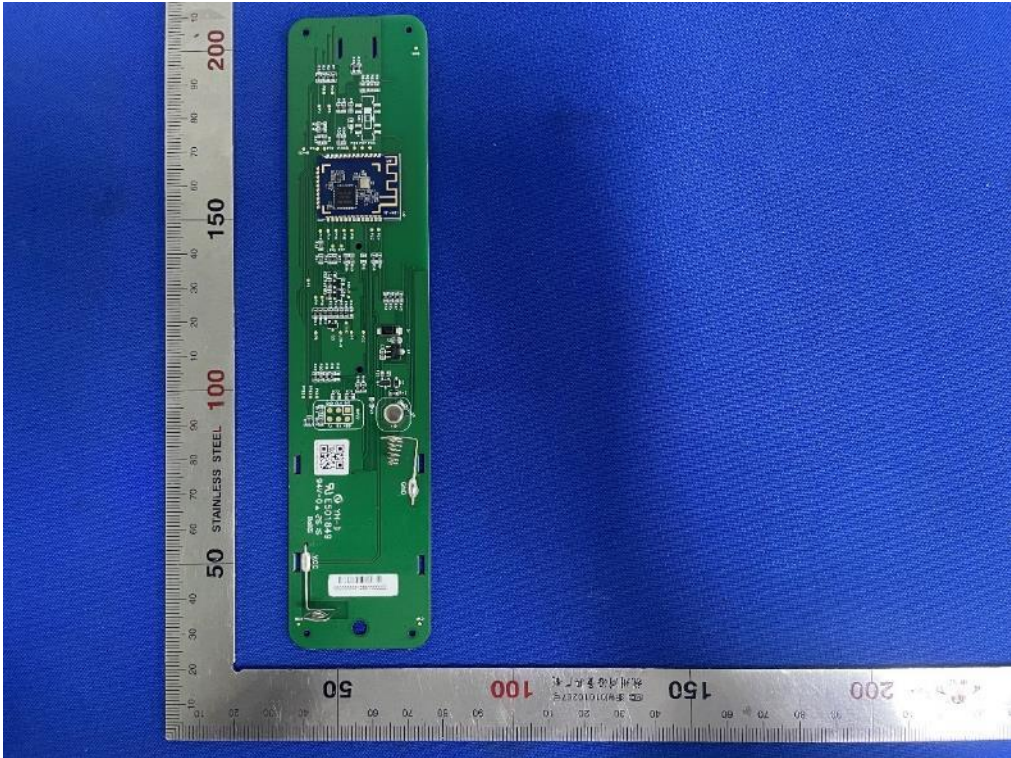
Internal photo-1 of the sample

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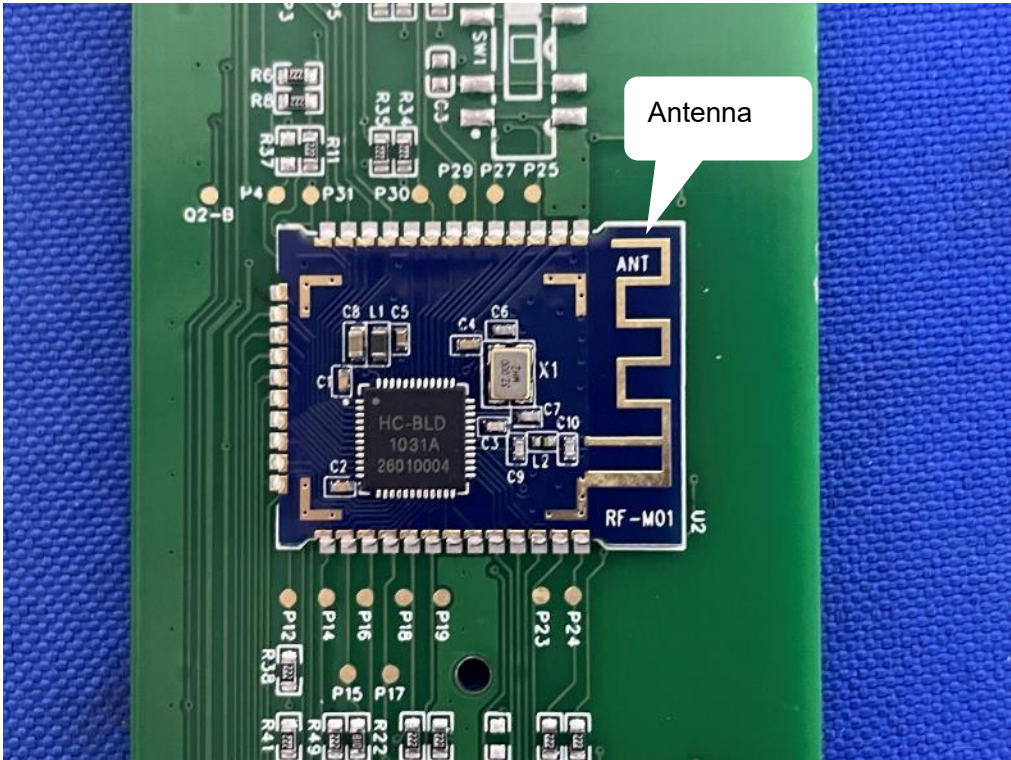
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Internal photo-2 of the sample



Antenna position of the sample

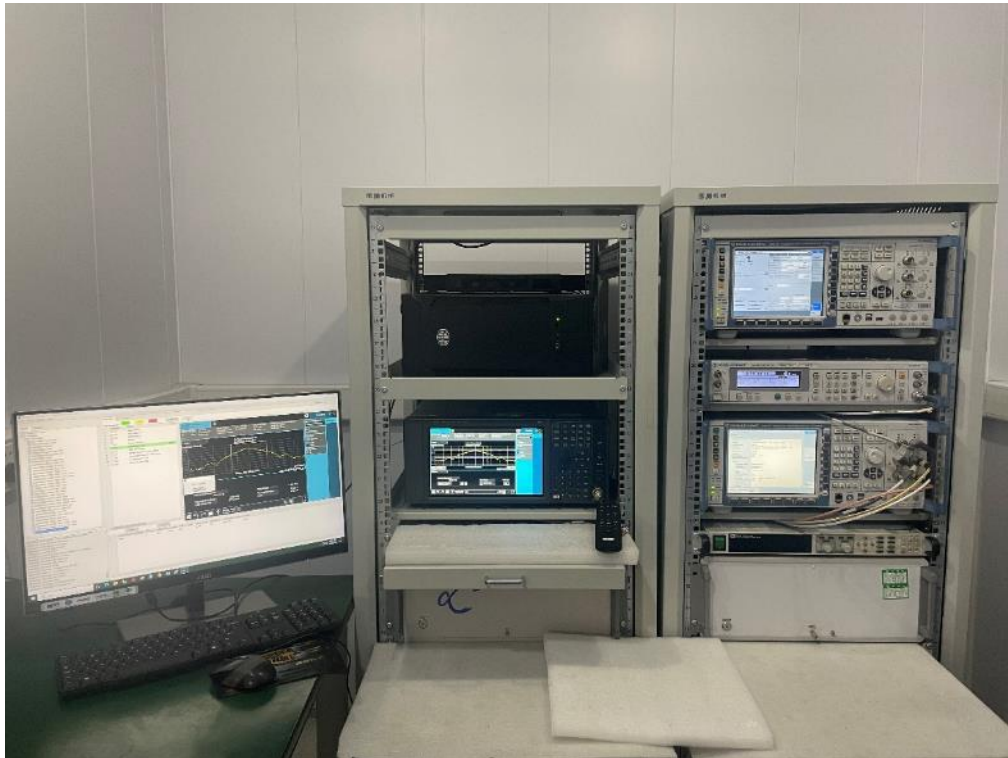
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5.3 Set-up for Conducted RF test at Antenna Port



5.4 Set-up for Spurious Emissions below 1GHz



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5.5 Set-up for Spurious Emissions above 1GHz



End of the report