FCC PART 15.249
TEST REPORT

For

Jiangsu Shushi Technology Co., Ltd.

NO.9 Nanxu Road, RunZhou District, Zhenjiang, Jiangsu, China

FCC ID: 2BAGQ-3RSMR01067Z

Report Type:	**Product Name:**
Original Report	Smart Motion Sensor R1

Report Number:	RKSB250107003-00C
Report Date:	2025-05-15
Reviewed By:	Bard Liu
Approved By:	Kyle Xu
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Govemment.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSB250107003-00C	R1V1	2025-05-15	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Jiangsu Shushi Technology Co., Ltd.
Tested Model:	3RSMR01067Z
Product Name:	Smart Motion Sensor R1
Power Supply:	DC 4.5V from battery
RF Function:	SRD
Operating Band/Frequency:	5770-5840.5 MHz
Maximum Field Strength of Fundamental:	93.65 dBμV/m @3m
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	3.99 dBi

Note: The maximum antenna gain is provided by the applicant.

All measurement and test data in this report was gathered from production sample serial number: RKSB250107003-1. (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-01-07.)

Objective

This type approval report is prepared for *Jiangsu Shushi Technology Co., Ltd.* in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209, 15.215 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN5055.

SYSTEM TEST CONFIGURATION

Justification

Operation Frequency Details:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5770.0	25	5785.2	49	5803.7	73	5822.9
2	5770.8	26	5785.6	50	5804.2	74	5823.5
3	5771.2	27	5787.6	51	5804.8	75	5824.0
4	5771.6	28	5788.8	52	5805.3	76	5824.6
5	5772.0	29	5789.2	53	5805.9	77	5825.7
6	5773.2	30	5789.6	54	5807.0	78	5827.3
7	5774.4	31	5790.0	55	5809.2	79	5828.4
8	5775.6	32	5790.4	56	5809.7	80	5829.0
9	5776.0	33	5791.2	57	5810.3	81	5829.5
10	5776.4	34	5792.0	58	5810.8	82	5830.1
11	5776.8	35	5793.6	59	5811.4	83	5830.6
12	5777.2	36	5794.4	60	5811.9	84	5831.7
13	5778.0	37	5794.8	61	5812.5	85	5832.8
14	5778.8	38	5795.2	62	5813.6	86	5833.9
15	5780.8	39	5796.0	63	5814.7	87	5834.5
16	5781.2	40	5796.4	64	5815.8	88	5835.0
17	5782.0	41	5796.8	65	5816.3	89	5835.6
18	5782.4	42	5798.0	66	5816.9	90	5836.1
19	5782.8	43	5799.8	67	5817.4	91	5837.2
20	5783.2	44	5800.9	68	5818.0	92	5839.4
21	5783.6	45	5801.5	69	5819.1	93	5840.0
22	5784.0	46	5802.0	70	5821.3	94	5840.5
23	5784.4	47	5802.6	71	5821.8	/	/
24	5784.8	48	5803.1	72	5822.4	/	/

EUT was tested with Channel 1, 48 and 94.

EUT Exercise Software

Telink BDT & sscom was used during the test.

★Power level: 3F

Note: The power level was declared by the applicant.

Support Equipment List and Details

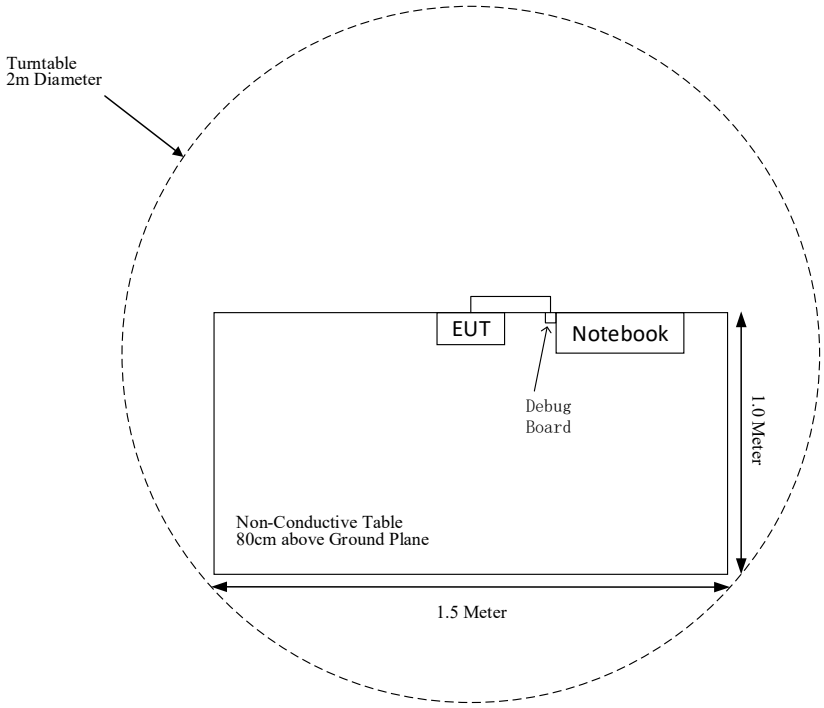
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
/	Debug Board	/	/

External I/O Cable

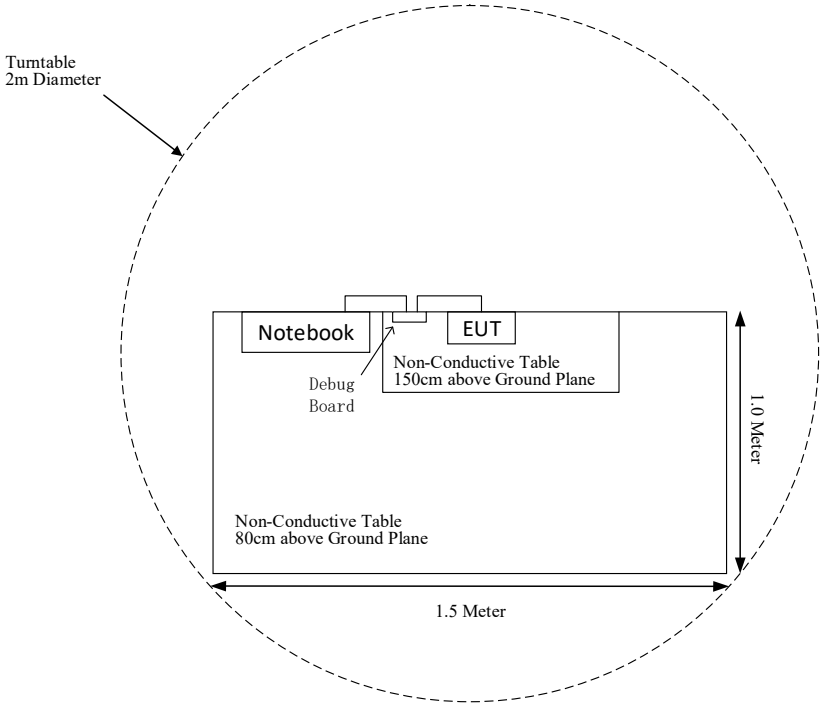
Cable Description	Length (m)	From Port	To Port
Data Cable	0.1	EUT	Debug board
USB Cable	1.0	Debug Board	Notebook

Block Diagram of Test Setup

For Radiated Emissions(Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Not Applicable (See the note)
15.205, §15.209, §15.249	Radiated Emissions & Out of Band Emission	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant

Note: The EUT powered by battery.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber 1#)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2024-04-23	2025-04-22
Sunol Sciences	Hybrid Antenna	JB3	A090314-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
Sonoma Instrument	Amplifier	310N	171205	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-8	008	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-9	009	2024-04-23	2025-04-22
MICRO-COAX	Coaxial Cable	Cable-10	010	2024-04-23	2025-04-22
Rohde & Schwarz	Test Software	EMC32	100361	N/A	N/A
Radiated Emission Test (Chamber 2#)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2024-04-25	2025-04-24
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08
ETS-LINDGREN	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems, inc	Amplifier	PAM-0118P	512	2024-04-25	2025-04-24
A.H.Systems, inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08
EM Electronics Corporation	Amplifier	EM18G40G	060726	2024-04-25	2025-04-24
MICRO-TRONICS	Band Reject Filter	BRM50716	G059	2024-05-23	2025-05-22
Narda	Attenuator	10dB	10dB-01	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-13	013	2024-04-25	2025-04-24
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200103	2025-04-09	2026-04-08
Narda	Attenuator	10dB	010	2025-04-09	2026-04-08
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Kunshan) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

Antenna Connector Construction

The EUT has a PCB antenna for SRD, which was permanently attached to the EUT, antenna gain is 3.99 dBi, fulfill the requirement of this section, please refer to the EUT photos.

Result: Compliant.

FCC §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §2.1091 and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary

Predication of MPE limit at a given distance
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Mode	Frequency Range (MHz)	Antenna Gain		★Tune-up Conducted Output Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
Zigbee	2405~2480	2.0	1.58	9.5	8.91	20	0.0028	1.0
SRD	5770~5840.5	3.99	2.51	-5.5	0.28	20	0.0001	1.0

The Zigbee & 5.8G SRD can be transmitting simultaneously, So

$$\sum_i \frac{S_i}{S_{Limit,i}} = 0.0028+0.0001=0.0029 < 1.0$$

Note:
1. For the above tune up power were declared by the manufacturer.
2. For 5.8G SRD, this maximum E-Field level is 93.65 dBμV/m at 3m, so the EIRP is -1.55 dBm. The antenna gain is 3.99dBi . The conducted power is -5.54 dBm
3. EIRP (dBm) = Field Strength of Fundamental (dBuV/m)-95.2,
   Conducted Power(dBm)=EIRP(dBm)-antenna gain(dBi)

Result: The device meet FCC MPE at 20 cm distance.

FCC§15.205, §15.209&§15.249 - RADIATED EMISSIONS& OUT OF BAND EMISSION

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

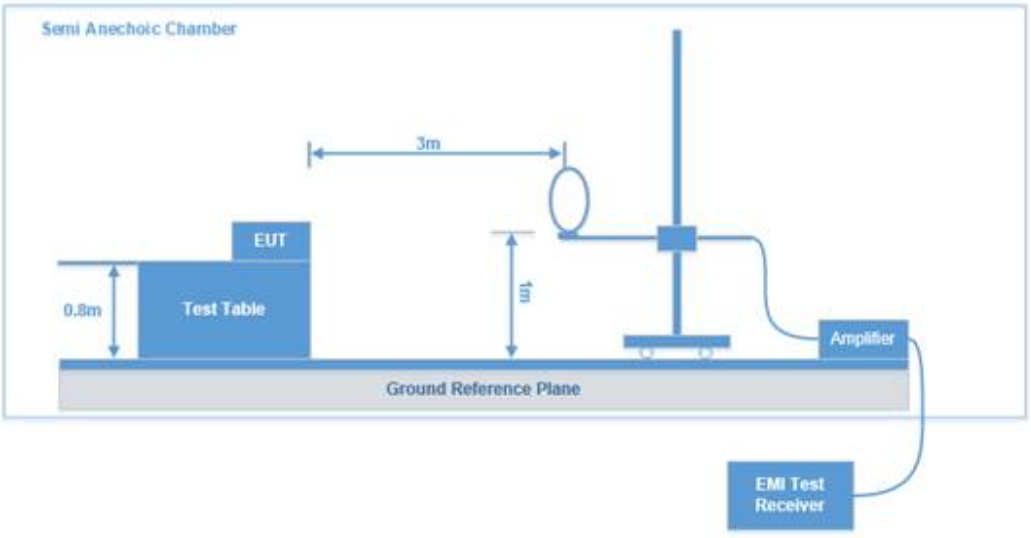
Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24GHz-24.25GHz	250	2500

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

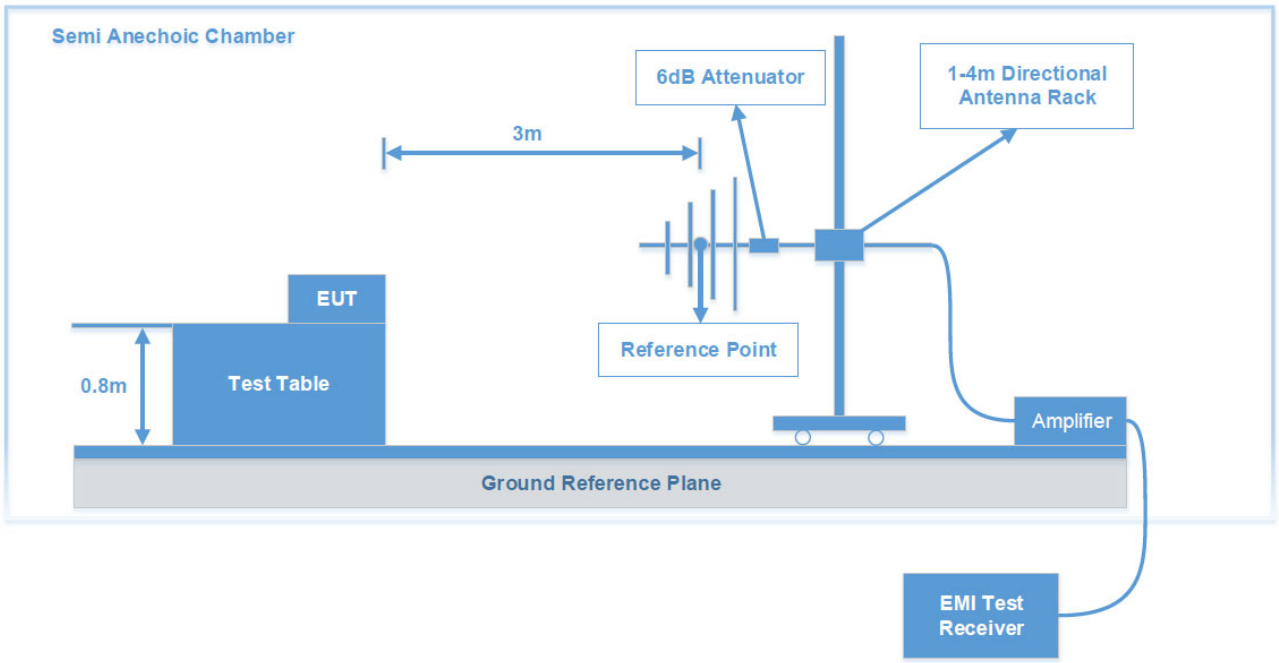
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test System Setup

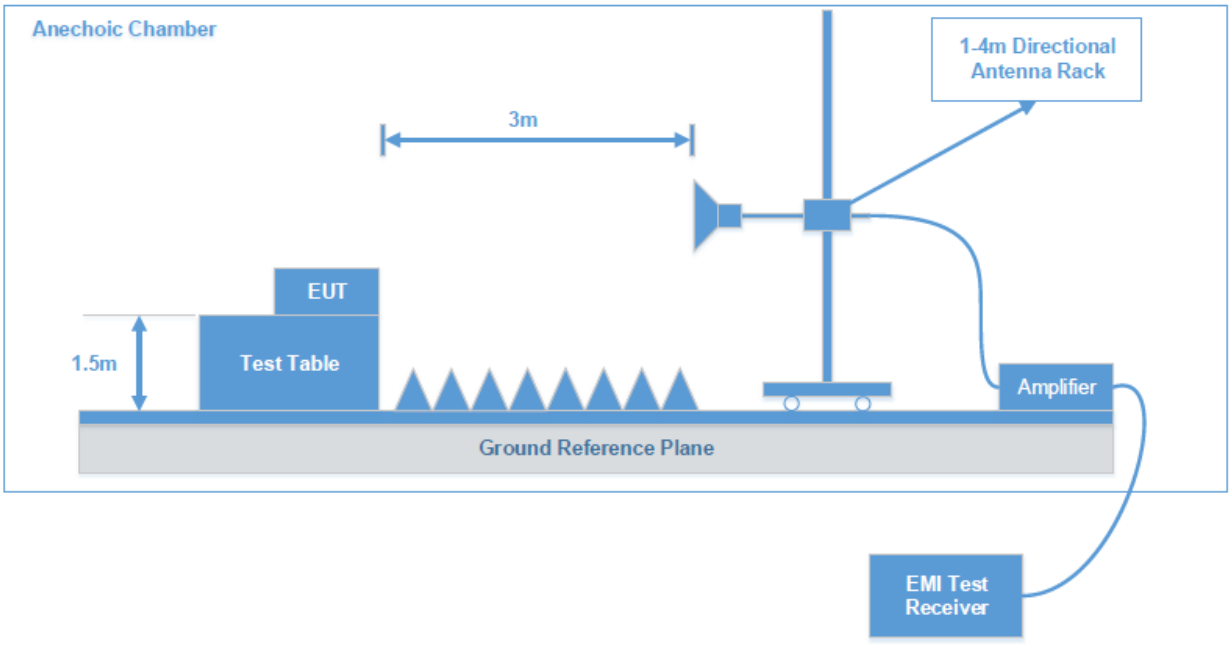
9 kHz - 30 MHz:



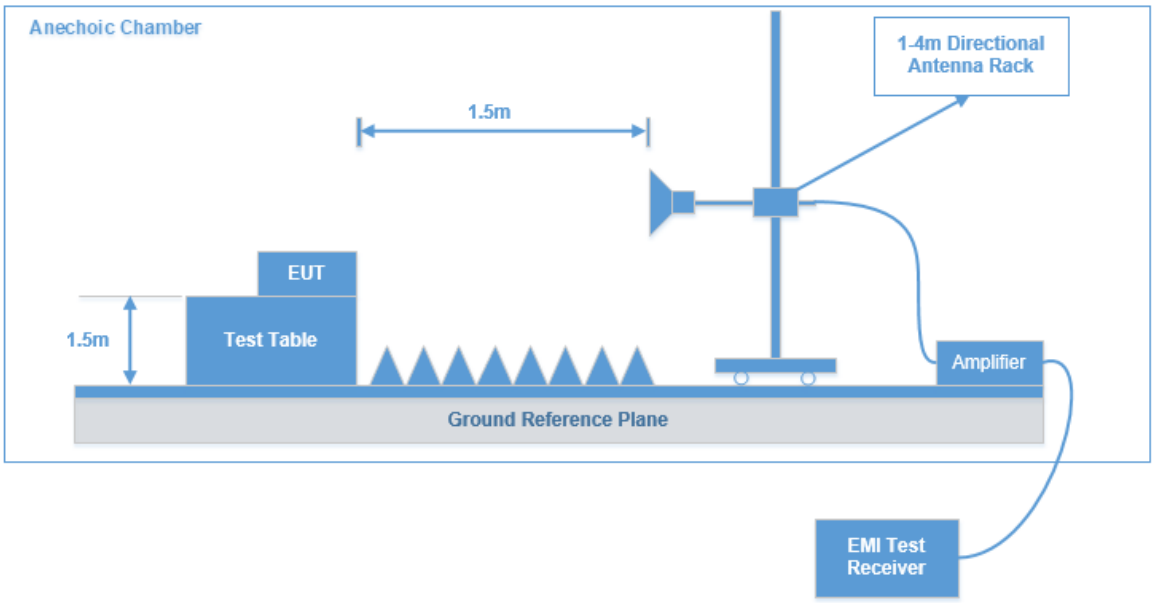
30 MHz - 1 GHz:



1 GHz-18GHz:



18-40GHz：



The radiated emission tests were performed in the 3 meters test site for below 18GHz and 1.5m for 18-40 GHz, using the setup accordance with the ANSI C63.10-2013.. The limit at 1.5m for 18-40 GHz is 80dBμV/m（Peak）and 60dBμV/m（Average）.The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

Test Equipment Setup

During the radiated emission test, the EMI test receiver Setup was set with the following configurations:

Frequency Range	RBW	VBW	IF B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP/ Average
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak
	/	/	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	Peak
	1MHz	3 MHz	/	Average

Note: If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform a QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 10 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

The "**Margin/ Over Limit**" column of the following data tables indicates the degree of Compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)
Over Limit (dB) = Level (dBμV/m) - Limit (dBμV/m)

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249.

Test Data: See APPENDIX

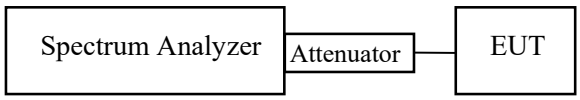
FCC §15.215(c) - 20 dB BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

Test Procedure

1. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
2. Repeat above procedures until all frequencies measured were complete.



Note: Offset (10.5dB) = Attenuator (10dB)+Cable loss (0.5dB)

Test Data: See APPENDIX

APPENDIX - TEST DATA

Environmental Conditions & Test Information

Test Item:	RADIATED EMISSIONS				20 DB BANDWIDTH TESTING
	9 kHz – 30MHz	30MHz – 1 GHz	1 GHz – 18 GHz	18 GHz – 40 GHz	
Test Date:	2025-02-28	2025-02-28	2025-02-13& 2025-05-09	2025-03-10	2025-05-15
Temperature:	17.2℃	17.1 ℃	16.8℃&22. 5℃	18.7℃	22.9 ℃
Relative Humidity:	49 %	44 %	45%&47 %	51 %	47 %
ATM Pressure:	103.1 kPa	101.6 kPa	100.4 kPa&101.6 kPa	102.4 kPa	100.4 kPa
Test Result:	Pass	Pass	Pass	Pass	Pass
Test Engineer:	Jerry Yan	Jerry Yan	Destine Hu	Hugh Wu	Neil Zhou

RADIATED EMISSIONS& OUT OF BAND EMISSION

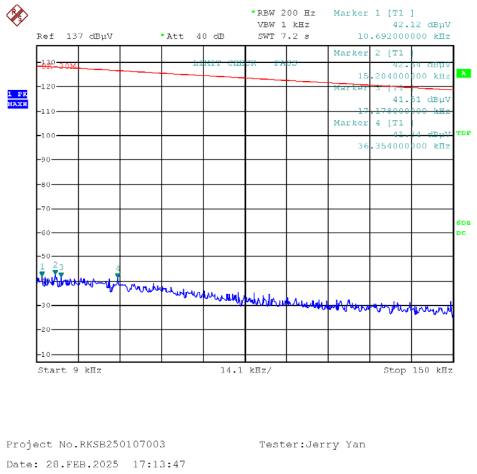
Test Result: Compliant.

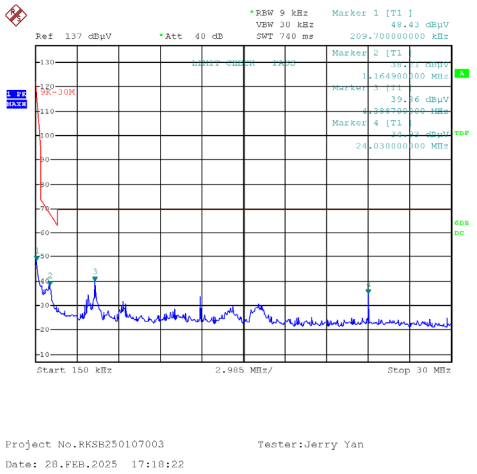
Test mode: Transmitting

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

9 kHz-30 MHz: (*Transmitting in maximum output power low channel)*
Parallel(worst case)

9kHz-150kHz **150kHz-30MHz**





9kHz-150kHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.010692	42.12	PK	-0.51	127.02	84.90
0.015204	42.54	PK	-0.54	123.97	81.43
0.017178	41.54	PK	-0.55	122.91	81.37
0.036354	41.34	PK	-1.63	116.39	75.05

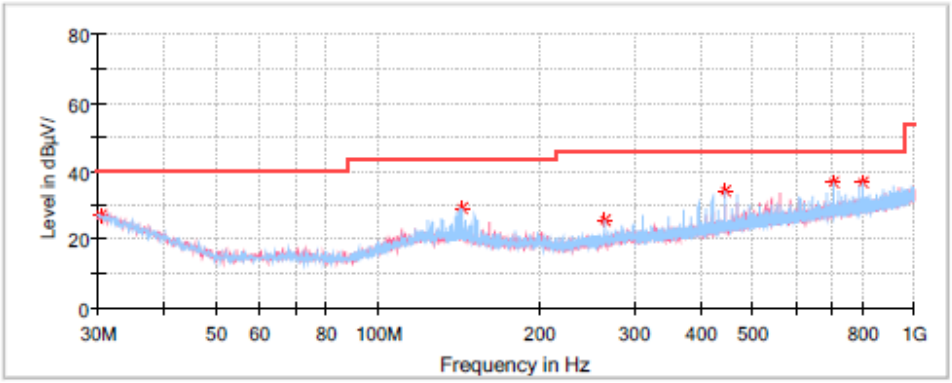
150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.20970	48.43	PK	-13.87	101.17	52.74
1.16490	38.21	PK	-28.15	66.28	28.07
4.38870	39.86	PK	-31.97	69.54	29.68
24.03000	34.93	PK	-32.92	69.54	34.61

30MHz - 1GHz:
Low Channel

Common Information

Project No:	RKSB250107003
EUT Model:	3RSMR01067Z
Test Mode:	Transmitting in SRD mode low channel
Standard:	FCC Part 15.205 &FCC Part 15.209&FCC Part 15.249
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	17.1℃
Humidity:	44%
Barometric Pressure:	101.6kPa
Test Engineer:	Jerry Yan
Test Date:	2025/2/28



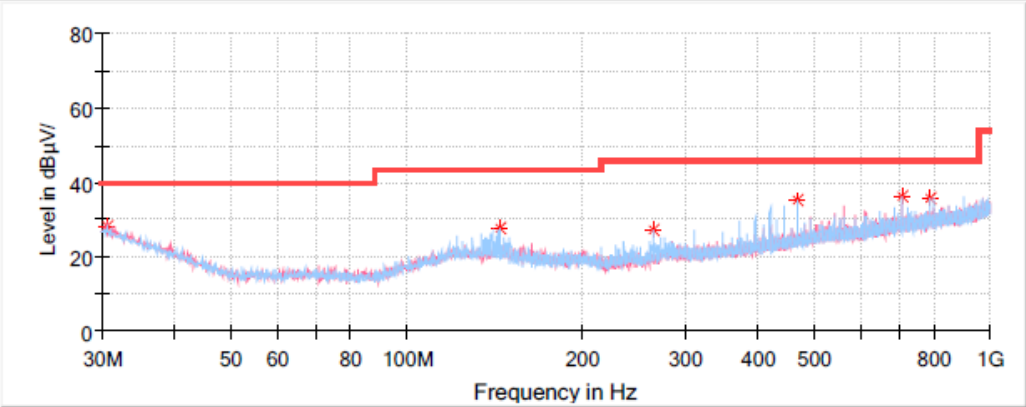
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	27.33	40.00	12.67	V	-5.0
143.368750	29.16	43.50	14.34	H	-11.4
264.012500	25.84	46.00	20.16	H	-11.7
444.068750	34.17	46.00	11.83	H	-6.8
708.030000	36.79	46.00	9.21	H	-2.0
804.060000	36.50	46.00	9.50	H	-0.7

Middle Channel

Common Information

Project No:	RKSB250107003
EUT Model:	3RSMR01067Z
Test Mode:	Transmitting in SRD mode middle channel
Standard:	FCC Part 15.205 &FCC Part 15.209&FCC Part 15.249
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	17.1℃
Humidity:	44%
Barometric Pressure:	101.6kPa
Test Engineer:	Jerry Yan
Test Date:	2025/2/28



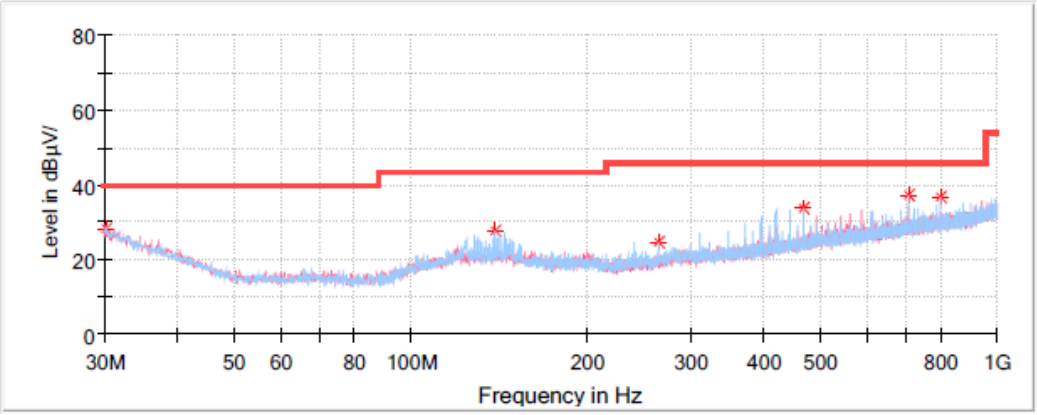
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.727500	28.09	40.00	11.91	V	-5.2
144.702500	27.70	43.50	15.80	H	-11.4
264.012500	27.36	46.00	18.64	H	-11.7
468.076250	34.97	46.00	11.03	H	-6.2
708.151250	36.44	46.00	9.56	H	-2.0
792.177500	35.93	46.00	10.07	H	-0.9

High Channel

Common Information

Project No:	RKSB250107003
EUT Model:	3RSMR01067Z
Test Mode:	Transmitting in SRD mode high channel
Standard:	FCC Part 15.205 &FCC Part 15.209&FCC Part 15.249
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	17.1℃
Humidity:	44%
Barometric Pressure:	101.6kPa
Test Engineer:	Jerry Yan
Test Date:	2025/2/28



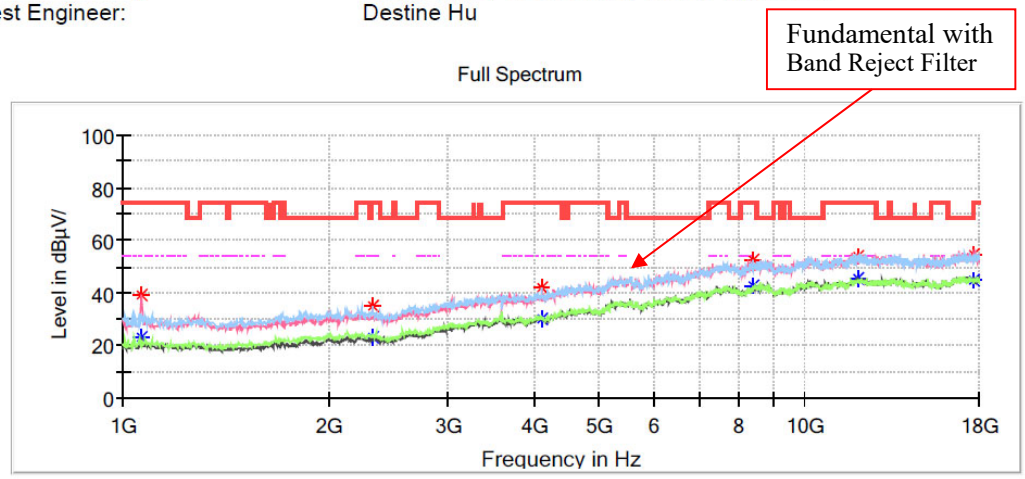
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.242500	28.08	40.00	11.92	H	-4.9
138.882500	27.47	43.50	16.03	H	-11.2
264.012500	24.87	46.00	21.13	H	-11.7
468.076250	33.55	46.00	12.45	H	-6.2
708.151250	37.00	46.00	9.00	H	-2.0
804.060000	36.54	46.00	9.46	H	-0.7

1 GHz - 18 GHz:
Low Channel

Common Information

Project No.:	RKSB250107003
Test Mode:	Transmitting
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.249
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



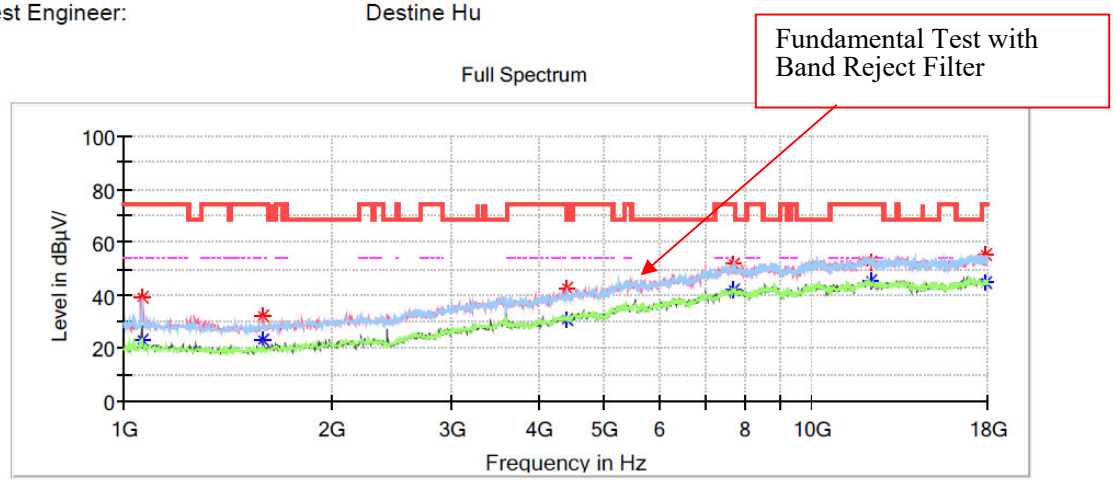
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	---	23.15	54.00	30.85	V	-15.4
1064.600000	39.17	---	74.00	34.83	V	-15.4
2326.000000	---	23.34	54.00	30.66	H	-10.7
2326.000000	34.70	---	74.00	39.30	H	-10.7
4104.200000	---	29.94	54.00	24.06	H	-5.6
4104.200000	42.17	---	74.00	31.83	H	-5.6
8384.800000	---	42.51	54.00	11.49	H	5.1
8384.800000	52.64	---	74.00	21.36	H	5.1
11988.800000	---	45.70	54.00	8.30	V	9.0
11988.800000	53.71	---	74.00	20.29	V	9.0
17721.200000	---	44.66	54.00	9.34	V	11.7
17721.200000	54.83	---	74.00	19.17	V	11.7

Middle Channel

Common Information

Project No.:	RKSB250107003
Test Mode:	Transmitting
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.249
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu



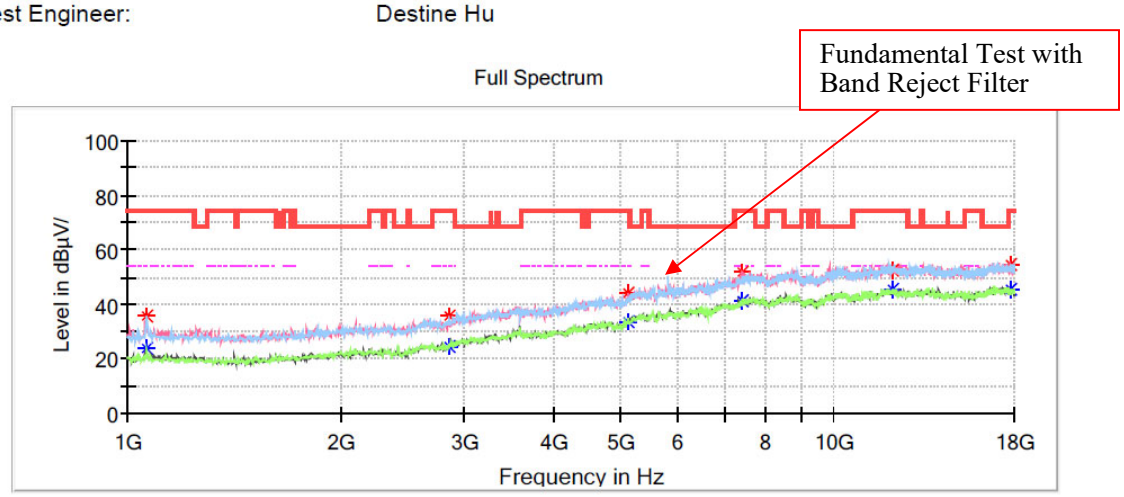
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1064.600000	39.17	---	74.00	34.83	V	-15.4
1064.600000	---	23.28	54.00	30.72	V	-15.4
1595.000000	32.02	---	74.00	41.98	V	-14.2
1595.000000	---	22.76	54.00	31.24	V	-14.2
4396.600000	---	30.88	54.00	23.12	H	-4.6
4396.600000	42.43	---	74.00	31.57	H	-4.6
7691.200000	---	41.92	54.00	12.08	H	3.9
7691.200000	51.66	---	74.00	22.34	H	3.9
12179.200000	---	45.74	54.00	8.26	V	9.2
12179.200000	52.66	---	74.00	21.34	V	9.2
17921.800000	54.90	---	74.00	19.10	H	11.9
17921.800000	---	44.78	54.00	9.22	H	11.9

High Channel

Common Information

Project No.:	RKSB250107003
Test Mode:	Transmitting
Standard:	FCC Part 15.205& FCC Part 15.209& FCC Part 15.249
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Test Engineer:	Destine Hu

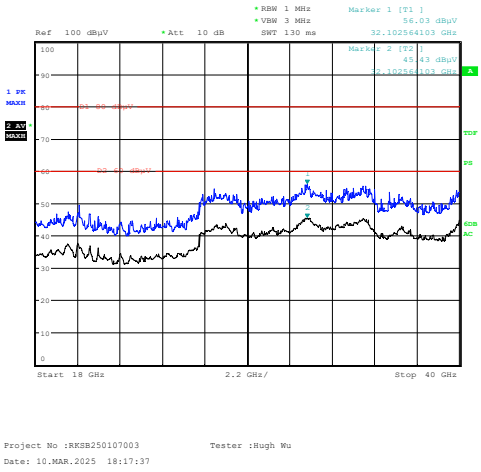


Critical_Freqs

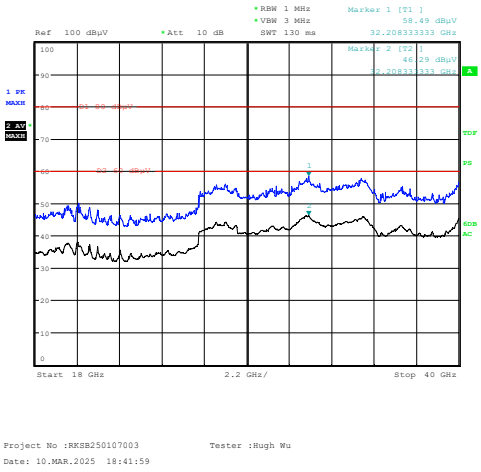
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	35.66	---	74.00	38.34	V	-15.4
1061.200000	---	24.08	54.00	29.92	V	-15.4
2849.600000	---	24.55	54.00	29.45	V	-9.0
2849.600000	35.43	---	74.00	38.57	V	-9.0
5100.400000	---	33.24	54.00	20.76	H	-2.0
5100.400000	43.82	---	74.00	30.18	H	-2.0
7436.200000	---	41.18	54.00	12.82	V	3.7
7436.200000	51.46	---	74.00	22.54	V	3.7
12128.200000	---	45.73	54.00	8.27	V	9.1
12128.200000	52.74	---	74.00	21.26	V	9.1
17748.400000	54.78	---	74.00	19.22	H	11.7
17748.400000	---	45.24	54.00	8.76	H	11.7

18GHz-40GHz: (*Transmitting in maximum output power low channel)*

Horizontal



Vertical



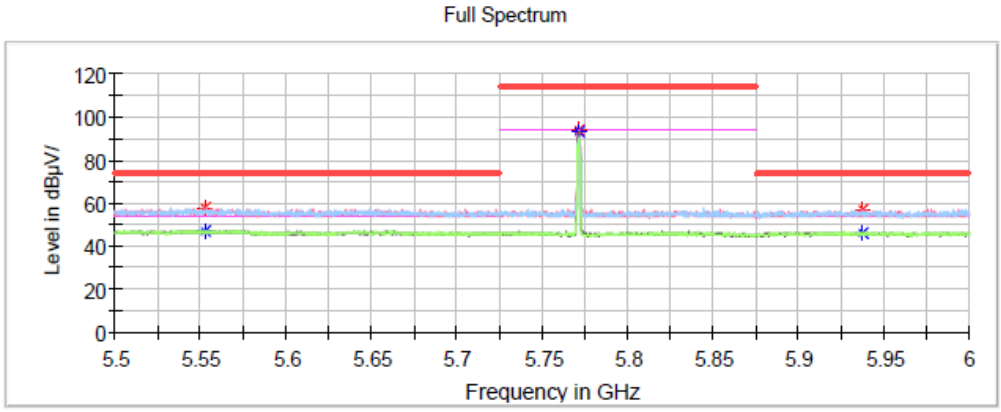
Frequency (GHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
32.10	---	45.43	60	14.57	H	23.24
32.10	56.03	---	80	23.97	H	23.24
32.21	---	46.29	60	13.71	V	23.35
32.21	58.49	---	80	21.51	V	23.35

Fundamental and Band edge:

Low Channel: 5770MHz

Common Information

Project No.:	RKSB250107003
EUT Model:	3RSMR01067Z
Test Mode:	Transmitting
Standard:	FCC Part 15.249& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.5℃
Humidity:	45%
Atmospheric Pressure:	100.4kPa
Test Engineer:	Destine Hu
Test Date:	2025/5/9



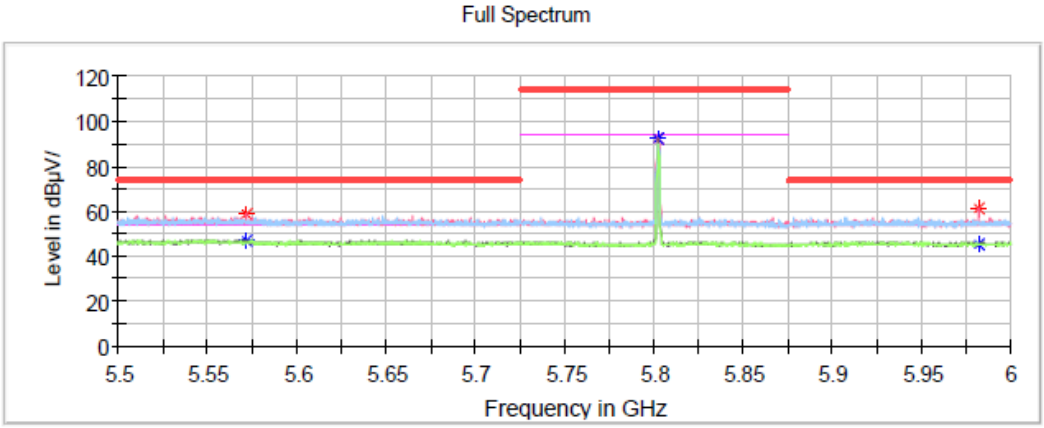
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5553.000000	---	46.69	54.00	7.31	H	9.1
5553.000000	57.74	---	74.00	16.26	H	9.1
5770.000000	---	93.44	94.00	0.56	V	8.8
5770.000000	93.65	---	114.00	20.35	V	8.8
5937.200000	---	45.91	54.00	8.09	V	8.6
5937.200000	57.05	---	74.00	16.95	V	8.6

Middle Channel: 5803.1MHz

Common Information

Project No.:	RKSB250107003
EUT Model:	3RSMR01067Z
Test Mode:	Transmitting
Standard:	FCC Part 15.249& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.5℃
Humidity:	45%
Atmospheric Pressure:	100.4kPa
Test Engineer:	Destine Hu
Test Date:	2025/5/9



Critical_Freqs

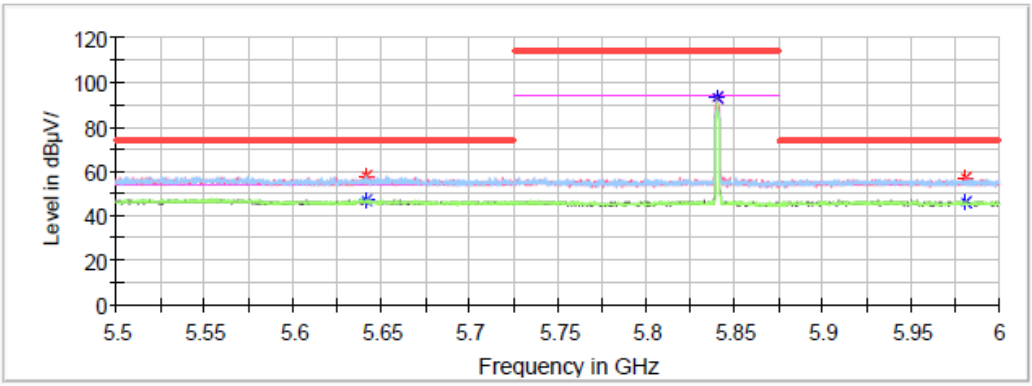
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5572.000000	---	46.74	54.00	7.26	V	9.0
5572.000000	58.64	---	74.00	15.36	V	9.0
5803.100000	---	92.19	94.00	1.81	V	8.8
5803.100000	92.43	---	114.00	21.57	V	8.8
5981.800000	---	45.66	54.00	8.34	H	8.6
5981.800000	60.84	---	74.00	13.16	H	8.6

High Channel: 5840.5MHz

Common Information

Project No.:	RKSB250107003
EUT Model:	3RSMR01067Z
Test Mode:	Transmitting
Standard:	FCC Part 15.249& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	22.5℃
Humidity:	45%
Atmospheric Pressure:	100.4kPa
Test Engineer:	Destine Hu
Test Date:	2025/5/9

Full Spectrum



Critical_Freqs

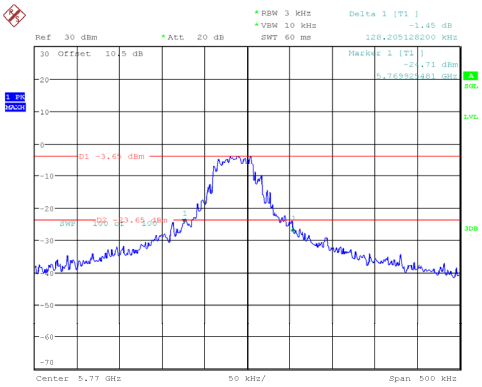
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
5641.200000	58.13	---	74.00	15.87	H	9.0
5641.200000	---	46.62	54.00	7.38	H	9.0
5840.500000	93.36	---	114.00	20.64	V	8.7
5840.500000	---	93.24	94.00	0.76	V	8.7
5980.800000	---	45.92	54.00	8.08	H	8.6
5980.800000	56.79	---	74.00	17.21	H	8.6

20 dB BANDWIDTH TESTING

Test Mode: Transmitting

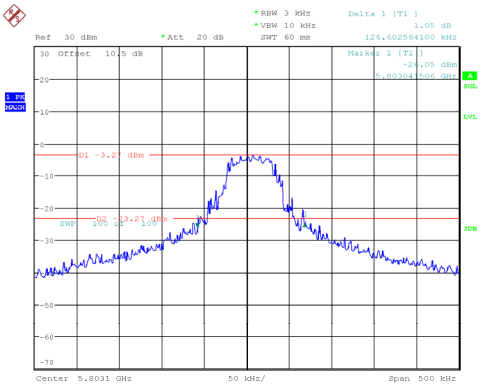
Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
Low	5770	128.205
Middle	5803.1	126.603
High	5840.5	119.391

Low Channel



ProjectNo.:RKSB250107003 Tester:Neil Zhou
Date: 15.MAY.2025 16:49:43

Middle Channel



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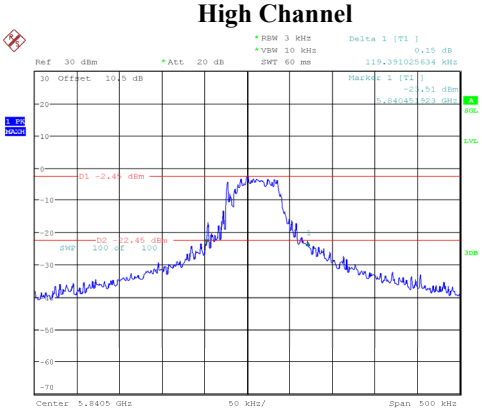
High Channel



ProjectNo.:RKSB250107003 Tester:Neil Zhou
Date: 15.MAY.2025 16:41:55

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A-EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B-EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT D-TEST SETUP PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with "★".

2. The test data was only valid for the test sample(s).

3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95.45% confidence interval.

*******END OF REPORT*******