

FCC PART 15.247

TEST REPORT

For

Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.

No. 8 Mingying 1 Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China

FCC ID: 2A4MQ-RKMG5

Report Type: Original Report	Product Name: Mouse
Report Number: <u>RSZA251021001-00A</u>	
Report Date: <u>2025-12-18</u>	
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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. Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSZA251021001-00A	R1V1	2025-12-18	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.
Product Name:	Mouse
Tested Model:	RK MG5
Power Supply:	DC 5V from USB port or DC 3.7V from battery
RF Function:	BLE
Operating Band/Frequency:	2402-2480 MHz
Maximum Output Power:	3.43 dBm
Channel Number:	40
Channel Separation:	2 MHz
Modulation Type	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	1.2 dBi
Sample/EUT Status	Good condition

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

All measurement and test data in this report was gathered from production samples serial number: RSZA251021001-1 (For AC Line Conducted Emissions & Spurious Emissions), RSZA251021001-2 (For RF Conducted) (Assigned by the BACL (Kunshan), The EUT was received on 2025-10-21.)

Objective

This report is prepared for *Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communications Commission rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with 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 and FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

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

Description of Test Configuration

Channel List for BLE 1M mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/

EUT was tested with channel 0, 19 and 39.

EUT Exercise Software

The system was configured for testing in an engineering mode, which was provided by manufacturer.

RF Test Tool: PXI_LINK_Tool.exe

★Power level: 4

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

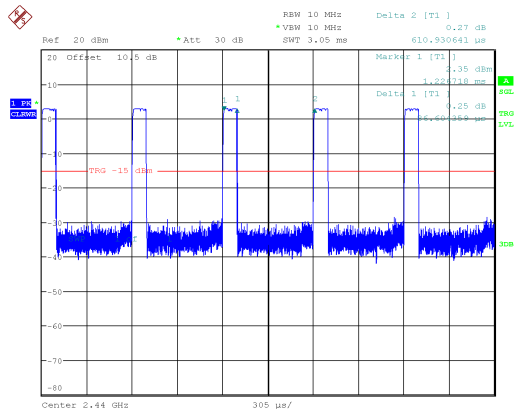
No modification was made to the EUT tested.

Environmental Conditions & Test Information

Test Date:	2025-11-07
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Duty Cycle:

BLE (1 Mbps)



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:40:15

Mode	Duty Cycle (%)	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle Factor(dB)
BLE (1 Mbps)	14.24	0.087	0.611	8.47

Support Equipment List and Details

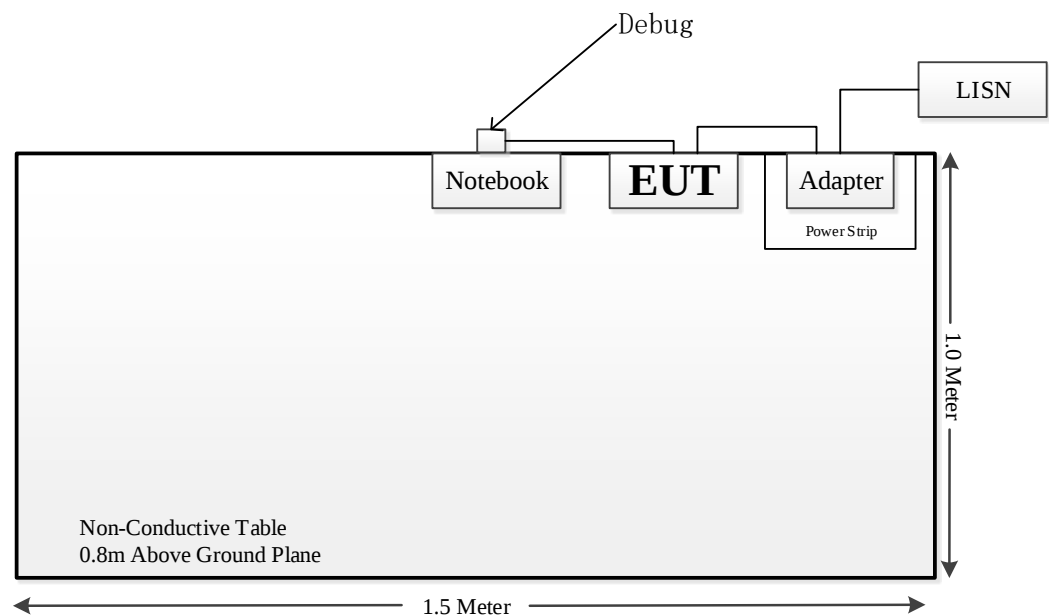
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
/	Debug Board	/	/
/	Power Strip	/	/
Power on Tools Co.,Ltd	Adapter	DA-00052000UL001	/

External I/O Cable

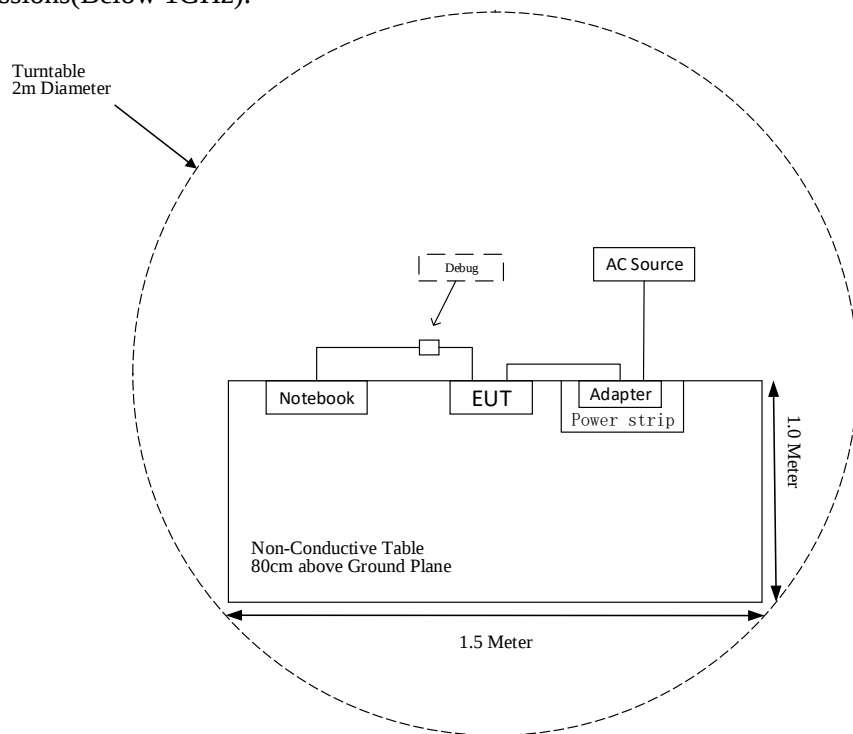
Cable Description	Length (m)	From Port	To Port
DuPont cable	0.2	EUT	Debug Board
USB Cable	1.5	Debug Board	Notebook
Power Cable 1	1.5	EUT	Adapter
Power Cable 2	1.0	Power Strip	LISN/AC Source

Block Diagram of Test Setup

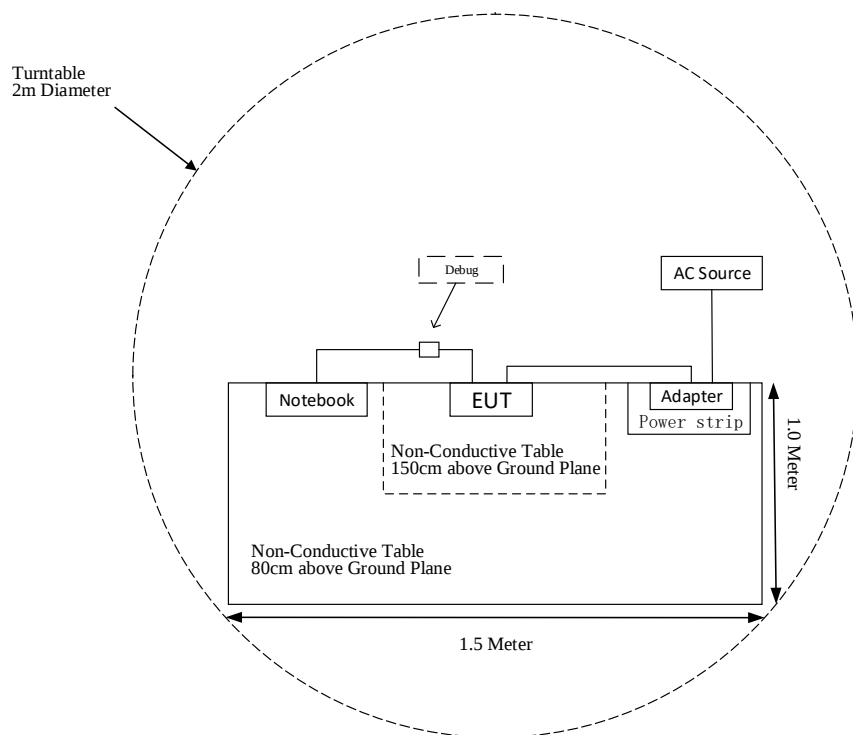
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



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	2025-04-09	2026-04-08
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21
Narda	6 dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
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	2025-04-09	2026-04-08
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2025-08-01	2026-07-31
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07
SELECTOR	Amplifier	EM18G40G	60726	2025-04-09	2026-04-08
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08
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	2025-04-08	2026-04-07
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2025-04-08	2026-04-07
Rohde & Schwarz	LISN	ENV216	101115	2025-04-08	2026-04-07
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2025-04-08	2026-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07

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).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 1.1310 & §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant

FCC §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f \text{ (GHz)}}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. f (GHz) is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

Mode	Frequency Range (MHz)	Max Tune-up Conducted Power		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
BLE	2402-2480	3.5	2.24	5	0.7	3.0	Yes
SRD	2402-2480	3.5	2.24	5	0.7	3.0	Yes

Note: SRD and BLE cannot transmit simultaneously.

Result: Compliant

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, 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.

Antenna Connector Construction

The EUT has a PCB antenna for BLE, and the antenna gain is 1.2 dBi, which is permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

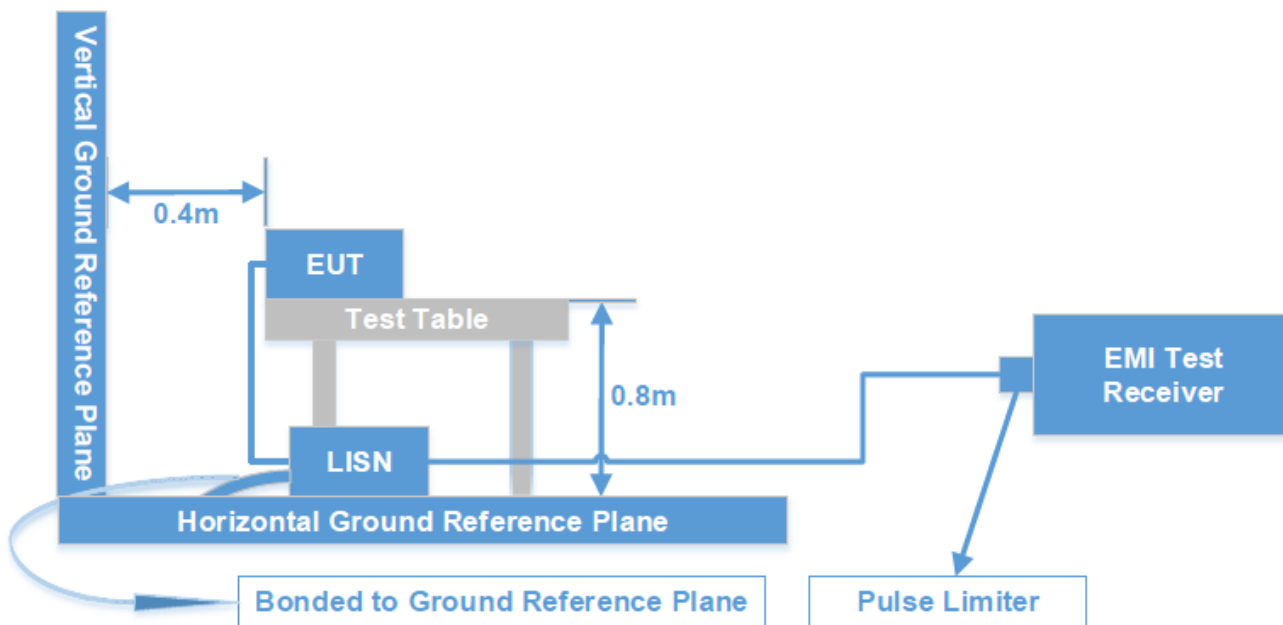
Result: Compliant.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2020 + Cor.1-2023. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

Frequency Range	RBW
150 kHz - 30 MHz	9 kHz

Test Procedure

ANSI C63.10-2020 + Cor.1-2023 clause 6.2

During the conducted emission test, the EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

Level (dBμV) = Read level (dBμV) + Factor (dB)

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

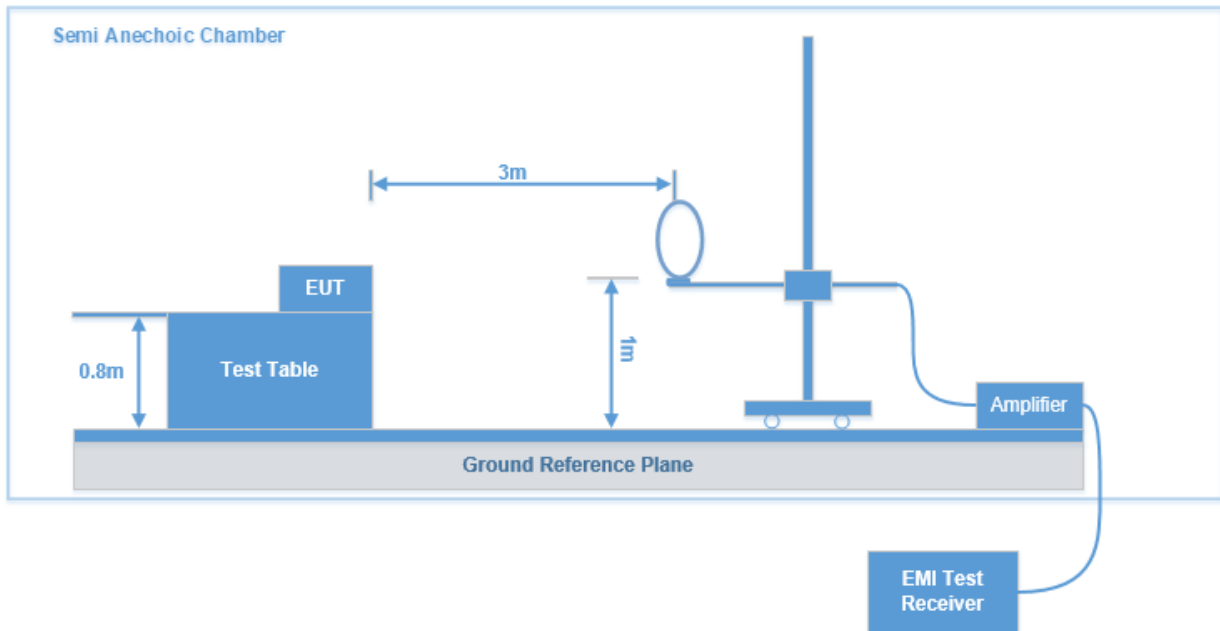
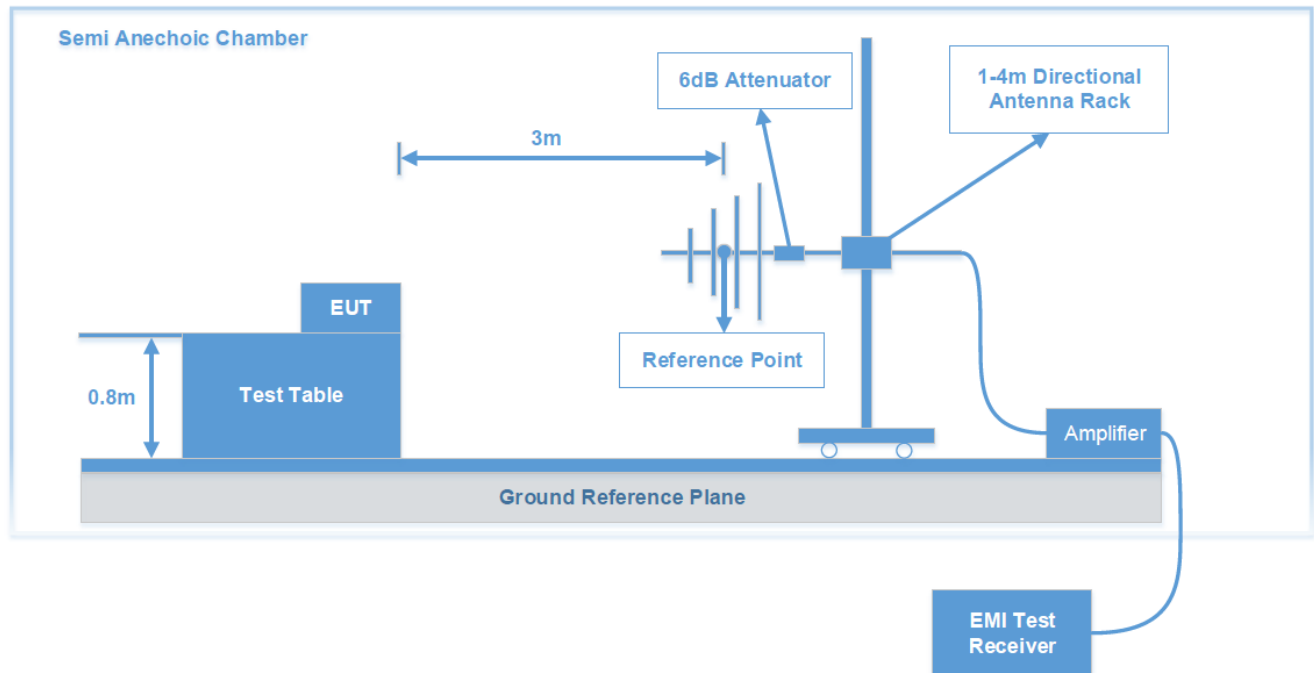
Test Results Summary

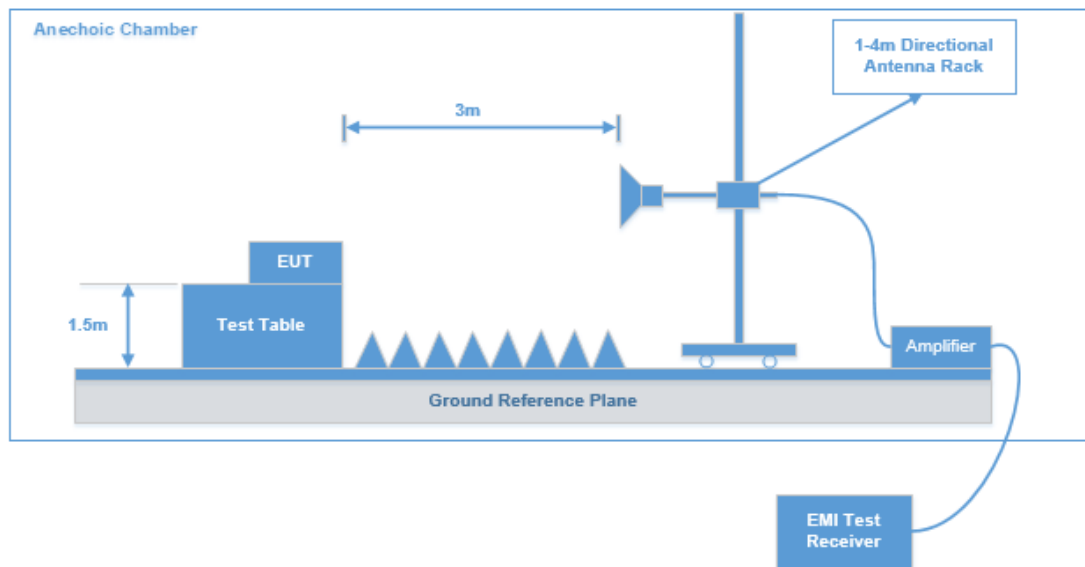
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

FCC §15.247 (d); §15.209; §15.205;

Test System Setup**9 kHz - 30 MHz:****30 MHz - 1 GHz:**

Above 1 GHz:

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2020 + Cor.1-2023. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver 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	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	Peak/QP/Average	Peak/QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP/Average	Peak/QP/ Average
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak	Peak
	/	/	120 kHz	QP	QP
Above 1GHz	1MHz	3 MHz	/	Peak	Peak
	1MHz	3 MHz	/	Average	Average

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 6 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:

$$\text{Corrected Amplitude (dB}\mu\text{V/m)} = \text{Meter Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Amplifier Gain (dB)}$$

The “Margin” 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:

$$\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Corrected Amplitude (dB}\mu\text{V/m)}$$

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

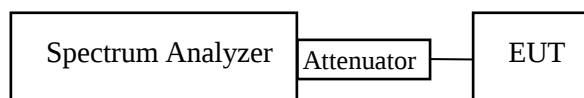
Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to ANSI C63.10-2020 + Cor.1-2023 sub-clause 11.8.1

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to ANSI C63.10-2020 + Cor.1-2023 sub-clause 11.9.1.1

1. Set the RBW $\geq$ DTS bandwidth.
2. Set VBW $\geq 3 * \text{RBW}$.
3. Set span $\geq 3 * \text{RBW}$
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(d) – BAND EDGE & CONDUCTED SPURIOUS EMISSION

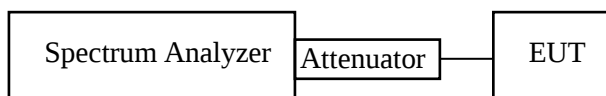
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2020 + Cor.1-2023 Section 11.11

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Conducted Spurious Emission

Applicable Standard

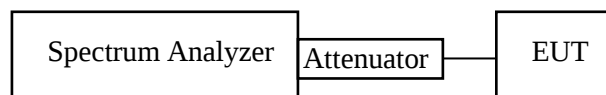
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2020 + Cor.1-2023 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Note: Offset (11dB) = Attenuator (10dB) + Cable Loss (1dB)

Test Data: See Appendix

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

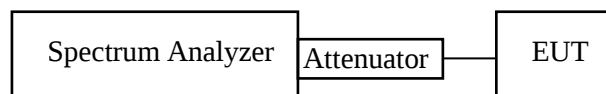
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to ANSI C63.10-2020 + Cor.1-2023 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

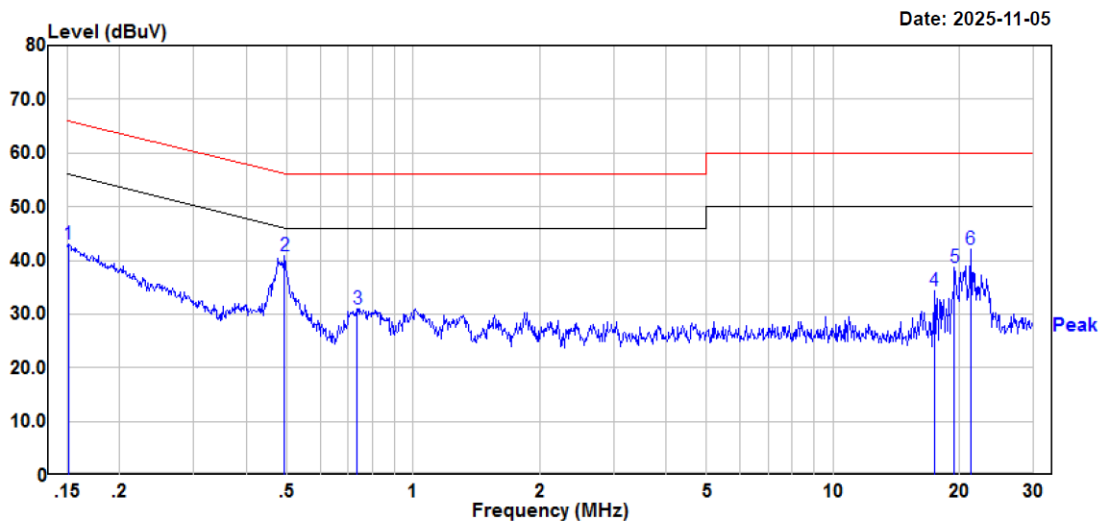
APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

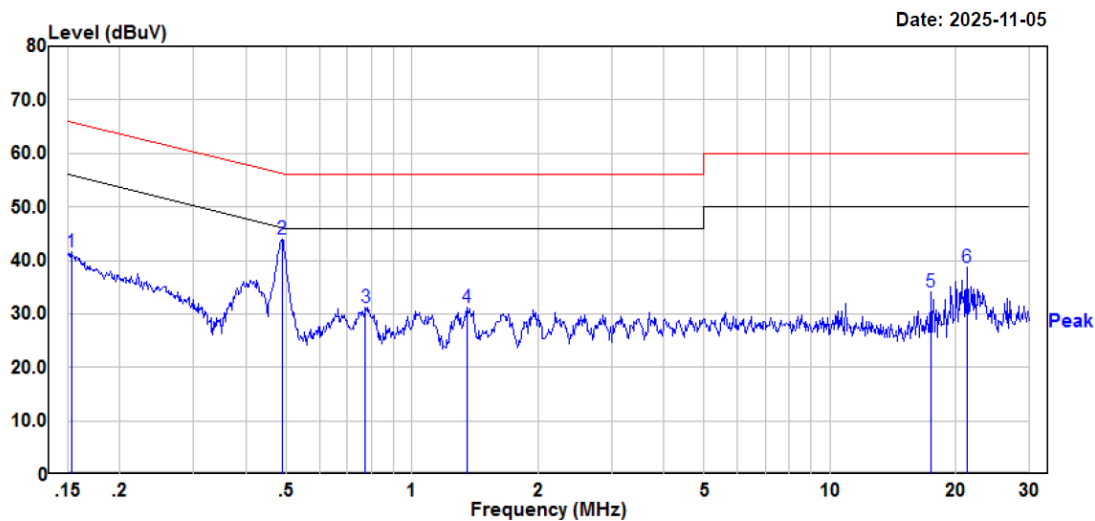
Test Date:	2025-11-05
Temperature:	21.9 °C
Relative Humidity:	45 %
ATM Pressure:	102.9 kPa
Test Result:	Pass
Test Engineer:	Jack He

EUT operation mode: Transmitting in BLE (1 Mbps) low channel (maximum output power)



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
Project No. : RSZA251021001
Model : RK MG5
Phase : L
Voltage : 120V/60Hz
Mode : BLE 1M
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 21.9℃
Humidity : 45%
Atmospheric pressure: 102.9kPa
Test Engineer : Jack He

	Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.151	22.74	20.41	43.15	65.96	-22.81 Peak
2	0.494	20.63	20.18	40.81	56.11	-15.30 Peak
3	0.736	10.78	20.25	31.03	56.00	-24.97 Peak
4	17.425	13.94	20.38	34.32	60.00	-25.68 Peak
5	19.444	18.25	20.47	38.72	60.00	-21.28 Peak
6	21.270	21.41	20.54	41.95	60.00	-18.05 Peak



Site : CE
 Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
 : DET:Peak
 Project No. : RSZA251021001
 Model : RK MG5
 Phase : N
 Voltage : 120V/60Hz
 Mode : BLE 1M
 Test Equipment : ENV216, ESR3
 Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
 Temperature : 21.9°C
 Humidity : 45%
 Atmospheric pressure: 102.9kPa
 Test Engineer : Jack He

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.153	21.21	20.39	41.60	65.83	-24.23	Peak
2	0.489	23.76	20.22	43.98	56.19	-12.21	Peak
3	0.773	11.04	20.22	31.26	56.00	-24.74	Peak
4	1.351	10.88	20.22	31.10	56.00	-24.90	Peak
5	17.425	13.66	20.39	34.05	60.00	-25.95	Peak
6	21.270	18.10	20.56	38.66	60.00	-21.34	Peak

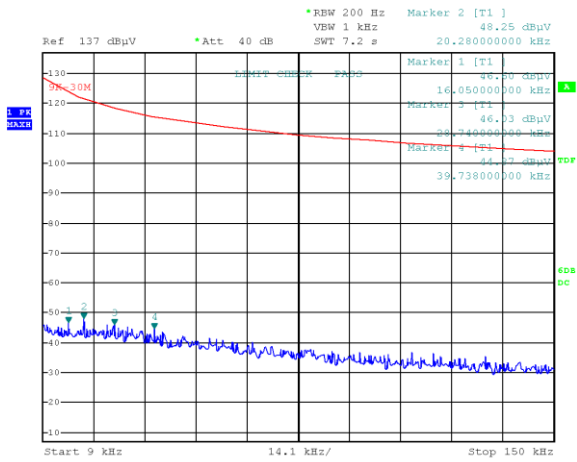
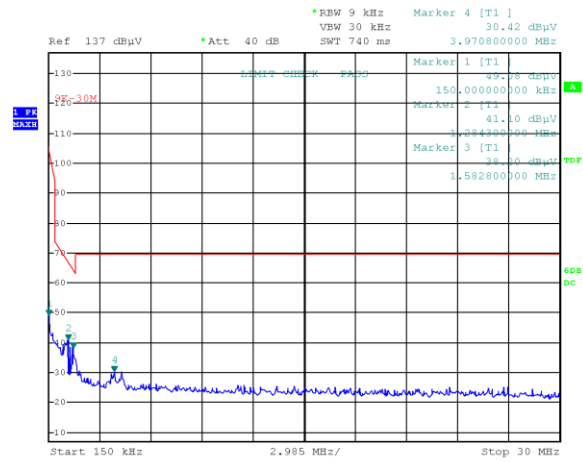
SPURIOUS EMISSIONS**Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30 MHz - 1 GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-11-07	2025-11-06	2025-11-07	2025-11-07
Temperature:	21.6 °C	19.7 °C	21.6 °C	21.6 °C
Relative Humidity:	53 %	64 %	53 %	53 %
ATM Pressure:	102.5kPa	102.5 kPa	102.5kPa	102.5kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

Test Result: Compliant.

EUT operation mode: Transmitting

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

9 kHz-30MHz: Transmitting in maximum output power mode BLE (1 Mbps) low channel**Parallel(worst case)****9kHz-150kHz****150kHz-30MHz**

Project No.RSZA251021001
Date: 7.NOV.2025 10:27:47

Tester:Scarf Yang

Project No.RSZA251021001
Date: 7.NOV.2025 10:33:35

Tester:Scarf Yang

9 kHz-150 kHz

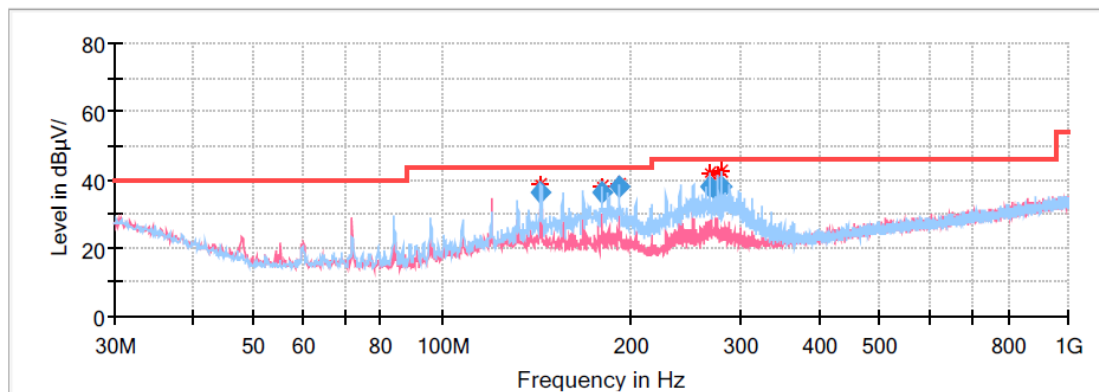
Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.016050	46.60	PK	-0.54	123.50	76.90
0.020280	48.25	PK	-0.56	121.46	73.21
0.028740	46.03	PK	-0.60	118.43	72.40
0.039738	44.87	PK	-2.17	115.62	70.75

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.150000	49.08	PK	-11.34	104.08	55.00
1.284300	41.10	PK	-28.55	65.43	24.33
1.582800	38.20	PK	-29.53	69.54	31.34
3.970800	30.42	PK	-31.89	69.54	39.12

30 MHz - 1 GHz:**Transmitting in maximum output power BLE 1M low channel****Low Channel: 2402 MHz****Common Information**

Project No: RSZA251021001
EUT Model: RK MG5
Test Mode: BLE 1M
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 19.7°C
Humidity: 64%
Barometric Pressure: 102.5 kPa
Test Engineer: Scarf Yang
Test Date: 2025/11/06

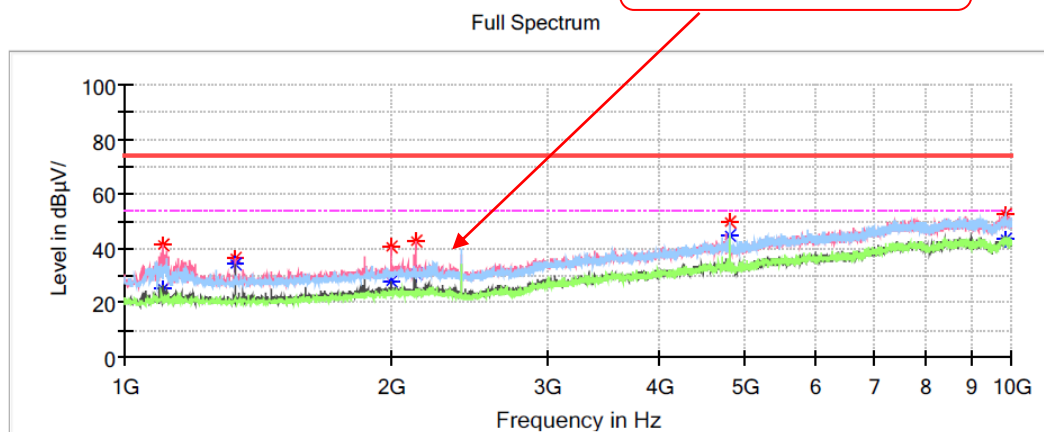
**Final Result**

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
143.975000	36.38	43.50	7.12	H	-11.4
179.986250	36.32	43.50	7.18	H	-13.0
191.990000	37.94	43.50	5.56	H	-12.5
267.043750	37.89	46.00	8.11	H	-11.4
276.137500	36.50	46.00	9.50	H	-10.7
279.775000	38.27	46.00	7.73	H	-10.5

1 GHz-10 GHz:**BLE (1 Mbps)****Low Channel: 2402 MHz****Common Information**

Project No.: RSZA251021001
EUT Model: RK MG5
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 21.6°C
Humidity: 53%
Atmospheric Pressure: 102.5kPa
Test Engineer: Destine Hu
Test Date: 2025/11/7

Fundamental Test with
Band Reject Filter

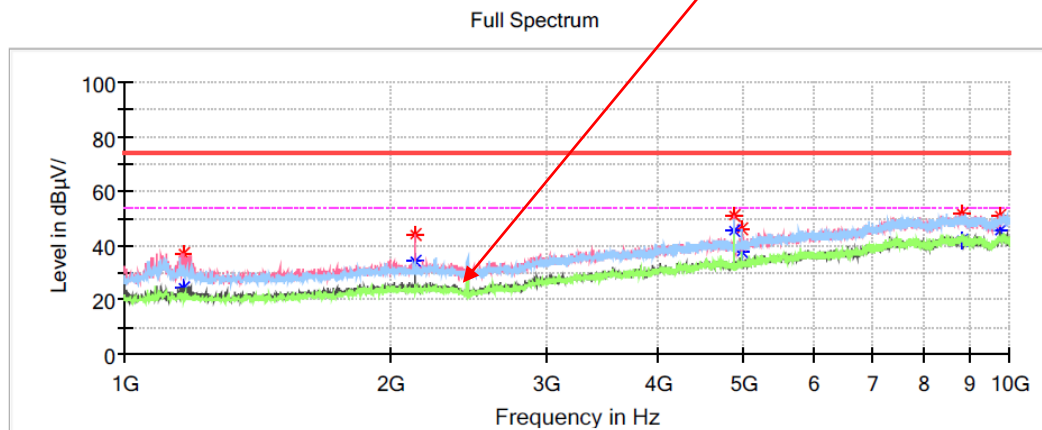
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1101.700000	---	25.50	54.00	28.50	V	-14.8
1101.700000	41.44	---	74.00	32.56	V	-14.8
1333.000000	---	33.96	54.00	20.04	V	-14.0
1333.000000	36.04	---	74.00	37.96	V	-14.0
1998.100000	---	28.30	54.00	25.70	V	-10.0
1998.100000	40.81	---	74.00	33.19	V	-10.0
2126.800000	---	31.12	54.00	22.88	V	-9.9
2126.800000	42.85	---	74.00	31.15	V	-9.9
4804.300000	---	44.99	54.00	9.01	H	-3.4
4804.300000	49.40	---	74.00	24.60	H	-3.4
9838.900000	---	43.27	54.00	10.73	V	5.9
9838.900000	52.42	---	74.00	21.58	V	5.9

Middle Channel: 2440 MHz**Common Information**

Project No.: RSZA251021001
EUT Model: RK MG5
Test Mode: Transmitting in BLE-1M Middle Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 21.6°C
Humidity: 53%
Atmospheric Pressure: 102.5kPa
Test Engineer: Destine Hu
Test Date: 2025/11/7

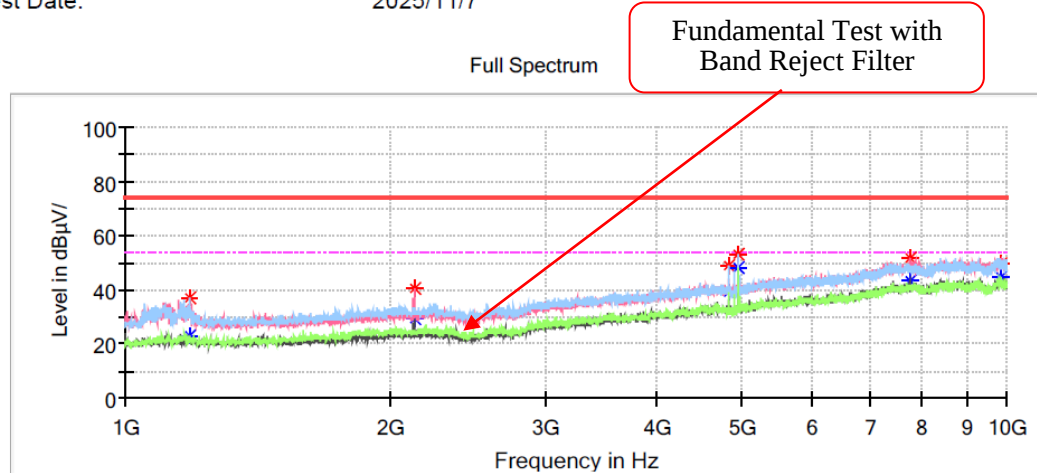
Fundamental Test with
Band Reject Filter

**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)
1167.400000	---	24.69	54.00	29.31	V	-14.6
1167.400000	37.22	---	74.00	36.78	V	-14.6
2132.200000	---	34.51	54.00	19.49	V	-9.9
2132.200000	43.72	---	74.00	30.28	V	-9.9
4879.900000	50.72	---	74.00	23.28	V	-3.2
4879.900000	---	45.74	54.00	8.26	V	-3.2
4982.500000	---	38.06	54.00	15.94	H	-2.9
4982.500000	45.89	---	74.00	28.11	H	-2.9
8849.800000	51.84	---	74.00	22.16	V	4.7
8849.800000	---	41.97	54.00	12.03	V	4.7
9760.600000	---	45.13	54.00	8.87	H	5.6
9760.600000	51.10	---	74.00	22.90	H	5.6

High Channel: 2480 MHz**Common Information**

Project No.:	RSZA251021001
EUT Model:	RK MG5
Test Mode:	Transmitting in BLE-1M High Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	21.6°C
Humidity:	53%
Atmospheric Pressure:	102.5kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/7

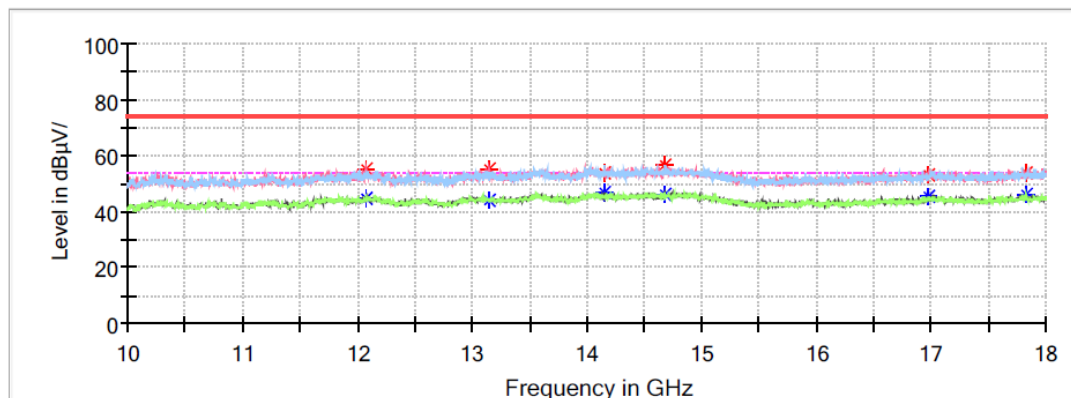
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1182.700000	37.07	---	74.00	36.93	H	-14.6
1182.700000	---	23.30	54.00	30.70	H	-14.6
2132.200000	40.85	---	74.00	33.15	V	-9.9
2132.200000	---	29.35	54.00	24.65	V	-9.9
4842.100000	---	39.07	54.00	14.93	H	-3.3
4842.100000	49.09	---	74.00	24.91	H	-3.3
4960.900000	---	48.25	54.00	5.75	V	-3.0
4960.900000	53.31	---	74.00	20.69	V	-3.0
7753.600000	---	43.49	54.00	10.51	V	3.1
7753.600000	51.80	---	74.00	22.20	V	3.1
9835.300000	49.59	---	74.00	24.41	H	5.8
9835.300000	---	44.46	54.00	9.54	H	5.8

10 GHz-18 GHz:**BLE (1 Mbps)****Low Channel: 2402 MHz****Common Information**

Project No.:	RSZA251021001
EUT Model:	RK MG5
Test Mode:	Transmitting in BLE-1M Low Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	21.6℃
Humidity:	53%
Atmospheric Pressure:	102.5kPa
Test Engineer:	Destine Hu
Test Date:	2025/11/7

Full Spectrum

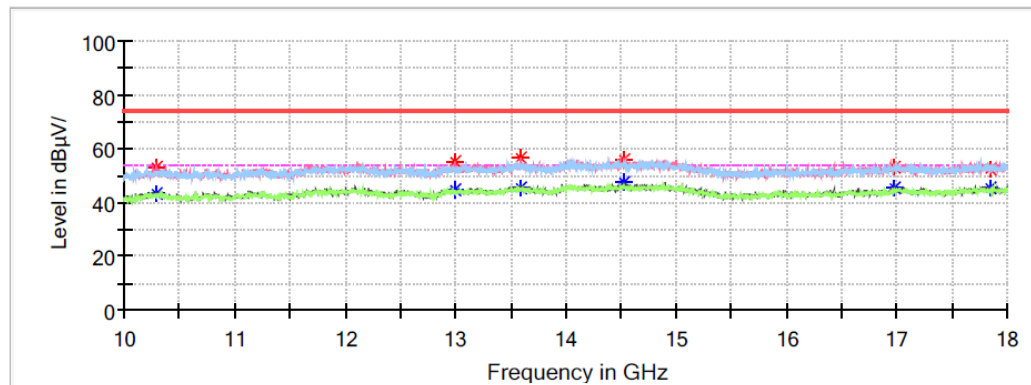
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
12076.800000	---	44.53	54.00	9.47	V	9.0
12076.800000	55.20	---	74.00	18.80	V	9.0
13156.800000	---	44.39	54.00	9.61	H	9.4
13156.800000	55.24	---	74.00	18.76	H	9.4
14150.400000	53.92	---	74.00	20.08	H	11.4
14150.400000	---	47.18	54.00	6.82	H	11.4
14680.000000	56.66	---	74.00	17.34	V	11.4
14680.000000	---	46.12	54.00	7.88	V	11.4
16982.400000	53.43	---	74.00	20.57	H	10.9
16982.400000	---	45.73	54.00	8.27	H	10.9
17824.000000	---	46.23	54.00	7.77	V	11.3
17824.000000	53.64	---	74.00	20.36	V	11.3

Middle Channel: 2440 MHz**Common Information**

Project No.: RSZA251021001
 EUT Model: RK MG5
 Test Mode: Transmitting in BLE-1M Middle Channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 21.6℃
 Humidity: 53%
 Atmospheric Pressure: 102.5kPa
 Test Engineer: Destine Hu
 Test Date: 2025/11/7

Full Spectrum

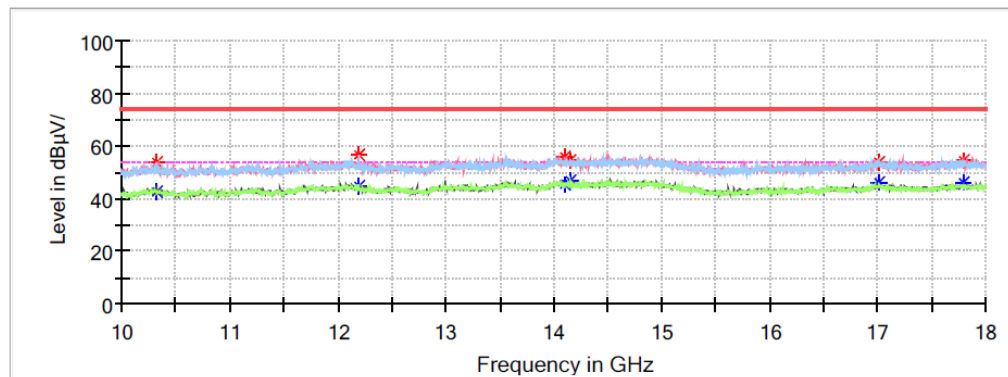
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
10297.600000	---	43.46	54.00	10.54	V	6.6
10297.600000	53.34	---	74.00	20.66	V	6.6
12990.400000	---	44.91	54.00	9.09	V	9.2
12990.400000	55.54	---	74.00	18.46	V	9.2
13593.600000	---	45.52	54.00	8.48	V	10.2
13593.600000	56.74	---	74.00	17.26	V	10.2
14521.600000	---	47.40	54.00	6.60	V	11.9
14521.600000	55.68	---	74.00	18.32	V	11.9
16971.200000	53.22	---	74.00	20.78	V	10.8
16971.200000	---	45.70	54.00	8.30	V	10.8
17841.600000	52.25	---	74.00	21.75	H	11.3
17841.600000	---	45.69	54.00	8.31	H	11.3

High Channel: 2480 MHz**Common Information**

Project No.: RSZA251021001
EUT Model: RK MG5
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 21.6℃
Humidity: 53%
Atmospheric Pressure: 102.5kPa
Test Engineer: Destine Hu
Test Date: 2025/11/7

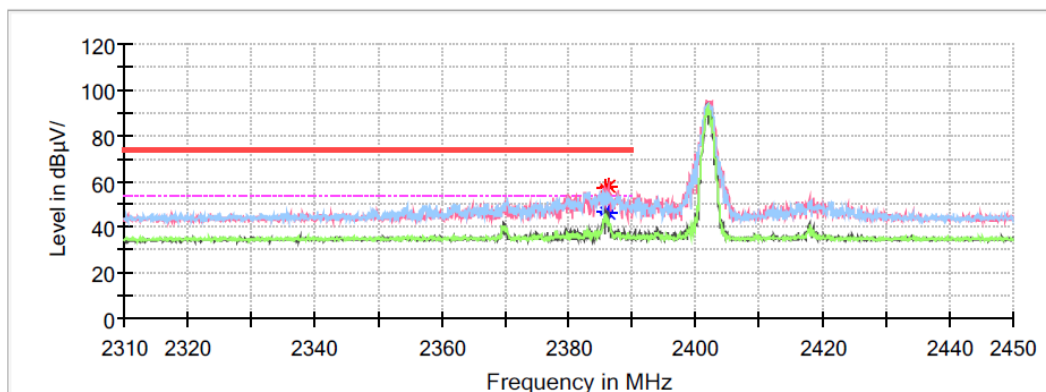
Full Spectrum

**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)
10318.400000	---	42.92	54.00	11.08	V	6.6
10318.400000	54.01	---	74.00	19.99	V	6.6
12190.400000	---	44.54	54.00	9.46	H	9.0
12190.400000	56.34	---	74.00	17.66	H	9.0
14105.600000	56.27	---	74.00	17.73	V	11.3
14105.600000	---	45.78	54.00	8.22	V	11.3
14161.600000	---	46.96	54.00	7.04	H	11.4
14161.600000	54.43	---	74.00	19.57	H	11.4
17009.600000	53.94	---	74.00	20.06	V	10.9
17009.600000	---	45.90	54.00	8.10	V	10.9
17796.800000	54.21	---	74.00	19.79	H	11.2
17796.800000	---	46.31	54.00	7.69	H	11.2

Restricted Bands Emission:**BLE (1 Mbps)****Left Side****Common Information**

Project No.: RSZA251021001
EUT Model: RK MG5
Test Mode: Transmitting in BLE-1M Low Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 21.6°C
Humidity: 53%
Atmospheric Pressure: 102.5kPa
Test Engineer: Destine Hu
Test Date: 2025/11/7

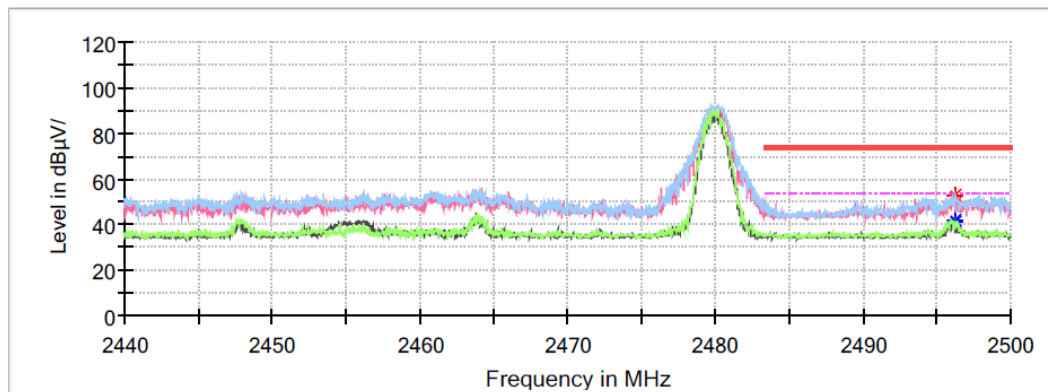
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2385.880000	---	46.93	54.00	7.07	V	0.2
2385.880000	56.96	---	74.00	17.04	V	0.2
2386.216000	---	45.87	54.00	8.13	V	0.2
2386.216000	57.73	---	74.00	16.27	V	0.2

Right Side**Common Information**

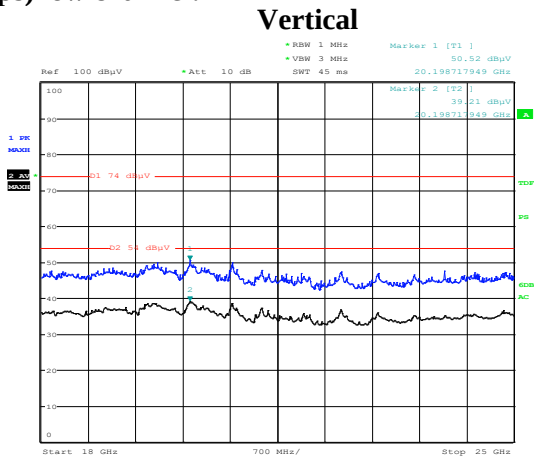
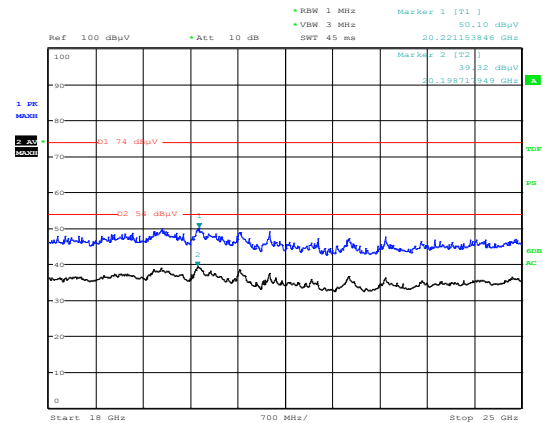
Project No.: RSZA251021001
EUT Model: RK MG5
Test Mode: Transmitting in BLE-1M High Channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 21.6°C
Humidity: 53%
Atmospheric Pressure: 102.5kPa
Test Engineer: Destine Hu
Test Date: 2025/11/7

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)
2496.208000	---	42.24	54.00	11.76	V	0.4
2496.208000	49.69	---	74.00	24.31	V	0.4
2496.304000	---	40.71	54.00	13.29	H	0.4
2496.304000	52.57	---	74.00	21.43	H	0.4

18 GHz - 25 GHz :
Transmitting in maximum output power BLE (1 Mbps) low channel:



Project No :RSZA251021001 Tester :Rugh Wu
Date: 7.NOV.2025 15:48:36

Project No :RSZA251021001 Tester :Rugh Wu
Date: 7.NOV.2025 16:21:58

Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	39.32	54	14.68	H	12.46
20.22	50.1	---	74	23.9	H	12.48
20.20	---	39.21	54	14.79	V	12.46
20.20	50.52	---	74	23.48	V	12.46

6 dB EMISSION BANDWIDTH

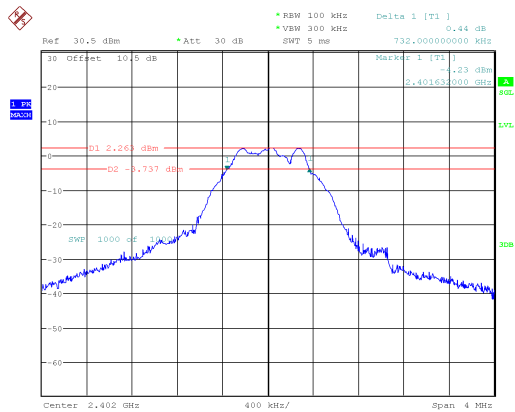
Environmental Conditions & Test Information

Test Date:	2025-11-07
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (1 Mbps)	Low	2402	0.732	≥0.5
	Middle	2440	0.716	≥0.5
	High	2480	0.724	≥0.5

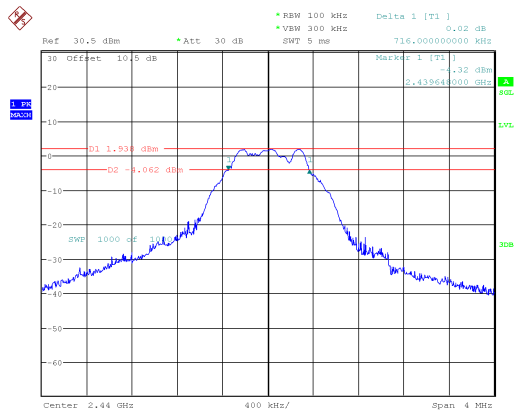
BLE (1 Mbps)

Low Channel



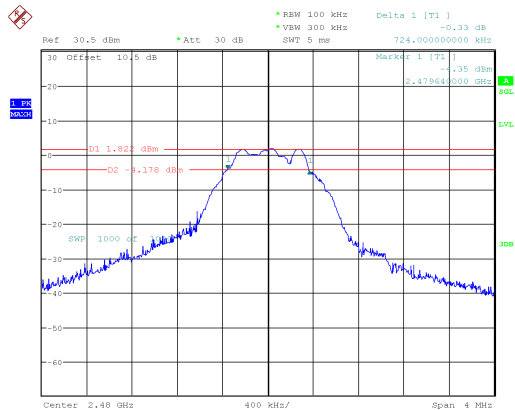
ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:27:52

Middle Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:40:51

High Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:48:53

MAXIMUM CONDUCTED OUTPUT POWER**Environmental Conditions & Test Information**

Test Date:	2025-11-07
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

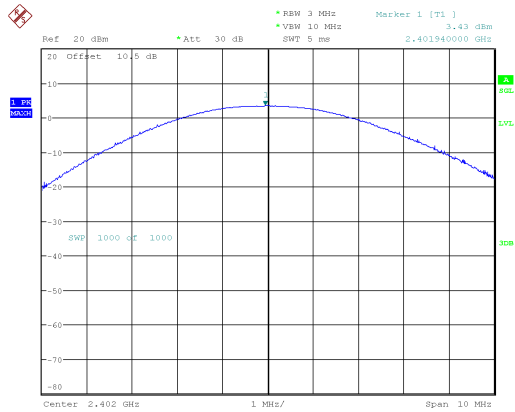
Test Result: Compliant.

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (1 Mbps)	Low	2402	3.43	30	Pass
	Middle	2440	3.15	30	Pass
	High	2480	3.03	30	Pass

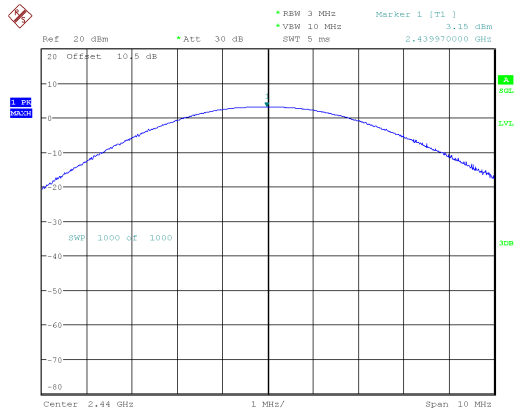
BLE (1 Mbps)

Low Channel



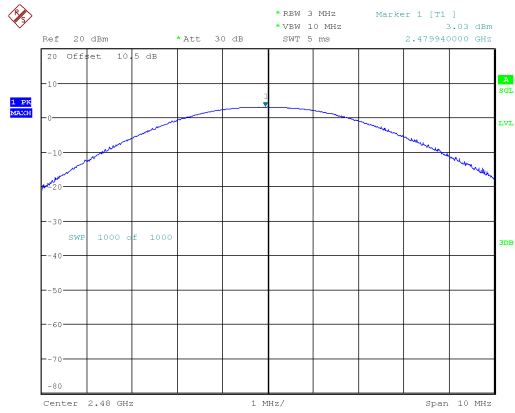
ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:30:31

Middle Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:41:30

High Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:49:45

BAND EDGE

Environmental Conditions & Test Information

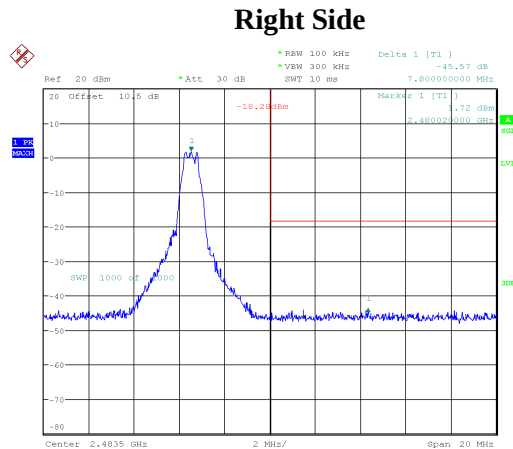
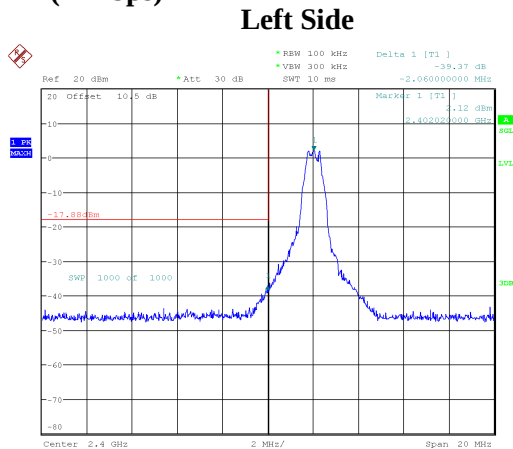
Test Date:	2025-11-07
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
BLE (1 Mbps)	Low	2402	39.37	20
	High	2480	45.57	

BLE (1 Mbps)



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:31:30

ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:50:44

CONDUCTED SPURIOUS EMISSION

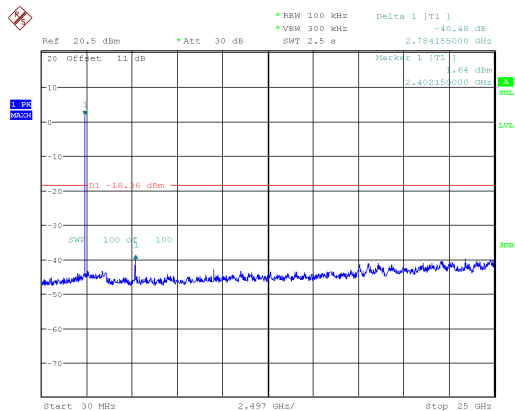
Environmental Conditions & Test Information

Test Date:	2025-11-07
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

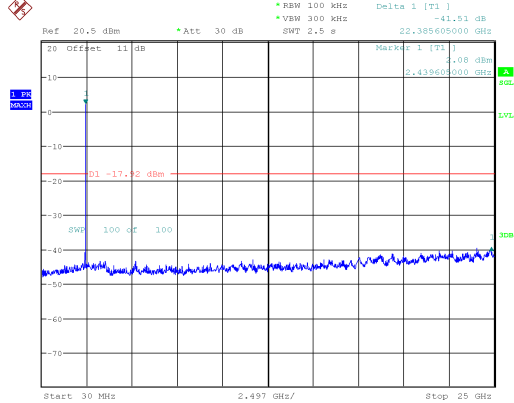
Mode	Channel	Frequency (MHz)	Result (dB)	Limit (dB)
BLE (1 Mbps)	Low	2402	40.48	20
	Middle	2440	41.51	20
	High	2480	39.10	20

BLE (1 Mbps)

Low Channel



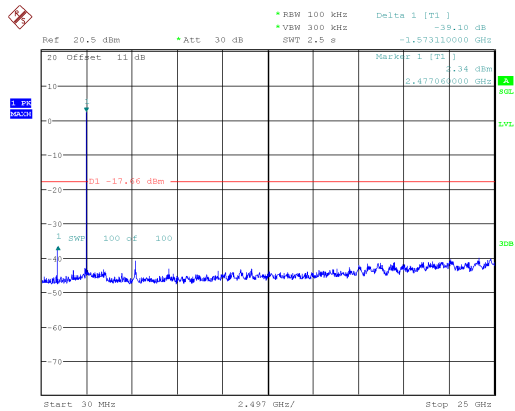
Middle Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:13:48

ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:46:55

High Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:15:20

POWER SPECTRAL DENSITY

Environmental Conditions & Test Information

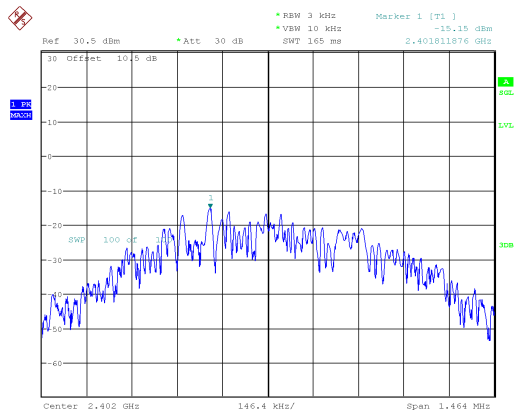
Test Date:	2025-11-07
Temperature:	21.6 °C
Relative Humidity:	53 %
ATM Pressure:	102.5kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Test Result: Compliant.
EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE (1 Mbps)	Low	2402	-15.15	≤8
	Middle	2440	-15.33	≤8
	High	2480	-15.23	≤8

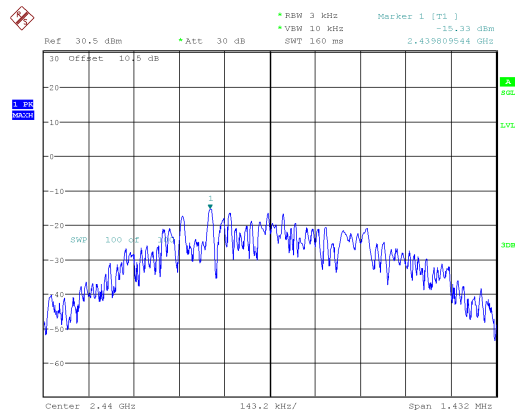
BLE (1 Mbps)

Low Channel



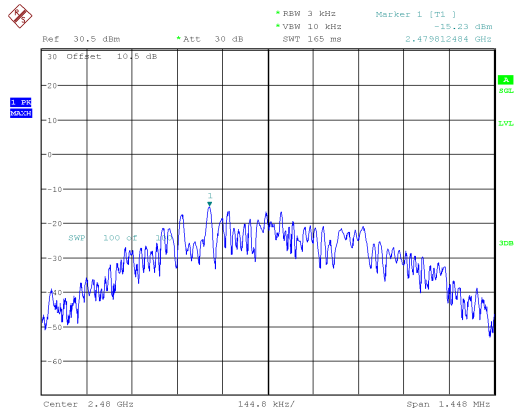
ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:31:56

Middle Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:41:55

High Channel



ProjectNo.:RSZA251021001 Tester:Neil Zhou
Date: 7.NOV.2025 16:51:10

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 C-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.
6. This report may contain standards and test items that are not covered by the accreditation scope and shall be marked with an asterisk “▲”.

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