

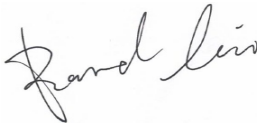
**FCC PART 15.247
TEST REPORT**

For

SPACEWALKER PTE. LTD.

60 PAYA LEBAR ROAD SINGAPORE Singapore

FCC ID: 2BK3M-K100U001

Report Type: Original Report	Product Name: Kids Electric Scooter
Report Number:	<u>RKSA250519001-00B</u>
Report Date:	<u>2025-08-13</u>
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Approved By:	<u>Kyle Xu</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	RKSA250519001-00B	R1V1	2025-08-13	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	SPACEWALKER PTE. LTD.
Tested Model:	K100 Pro US
Series Model:	K100 US
Model Difference:	Mechanical bell, Folding mechanism, See the declaration letter for details
Product Name:	Kids Electric Scooter
Power Supply:	DC 25.2V charging by adapter or DC 21.6V powered by battery
Maximum Output Power:	GFSK: 1.74 dBm $\pi/4$ -DQPSK: 2.44dBm 8DPSK: 2.84 dBm
RF Function:	Classic BT
Operating Band/Frequency:	2402-2480 MHz
Channel Number:	79
Channel Separation:	1 MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
★Maximum Antenna Gain:	0.31 dBi

Adapter Information:

Model: GQ20-252070-AU

Input: AC 100-240V, 50/60Hz, 0.8A Max

Output: DC 25.2V, 0.7A

Note: The maximum antenna gain was declared by the manufacturer.

All measurement and test data in this report was gathered from production sample serial number: RKSA250519001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-05-19.)

Objective

This test report is prepared for *SPACEWALKER PTE. LTD.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, 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, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
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°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:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

RF Test Tool: FCC_assist1.0.4

★Power level: 10

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

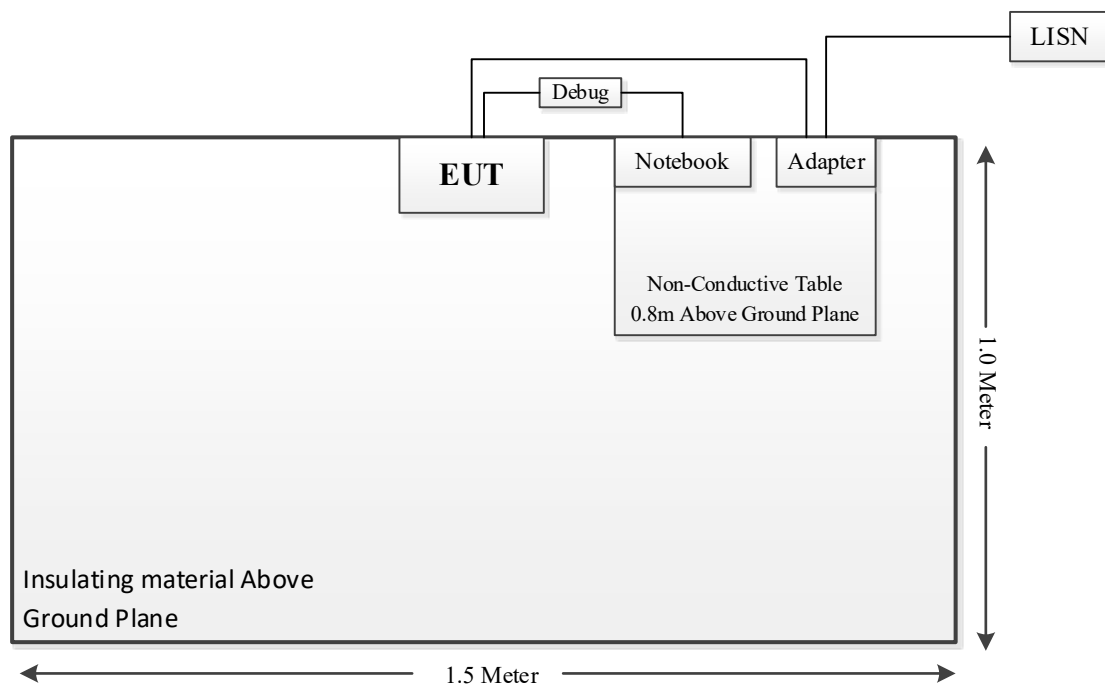
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Y700P	PF2B7PL5
/	Debug board	/	/

External I/O Cable

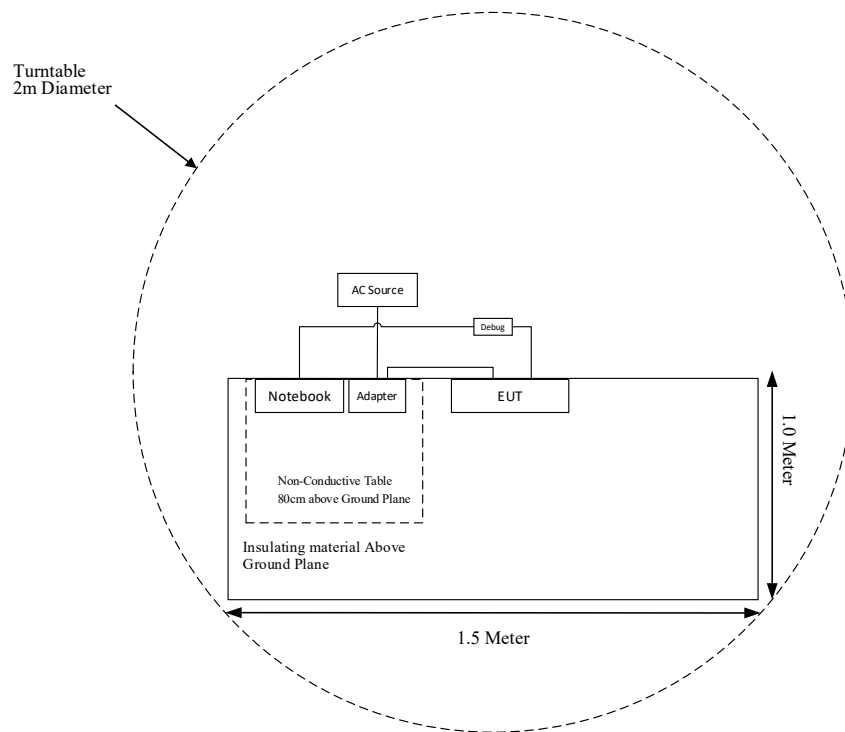
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	LISN/AC Source	Adapter
Power Cable 2	1.5	Adapter	EUT
Data Cable 1	0.2	EUT	Debug board
Data Cable 2	1.5	Debug board	Notebook

Block Diagram of Test Setup

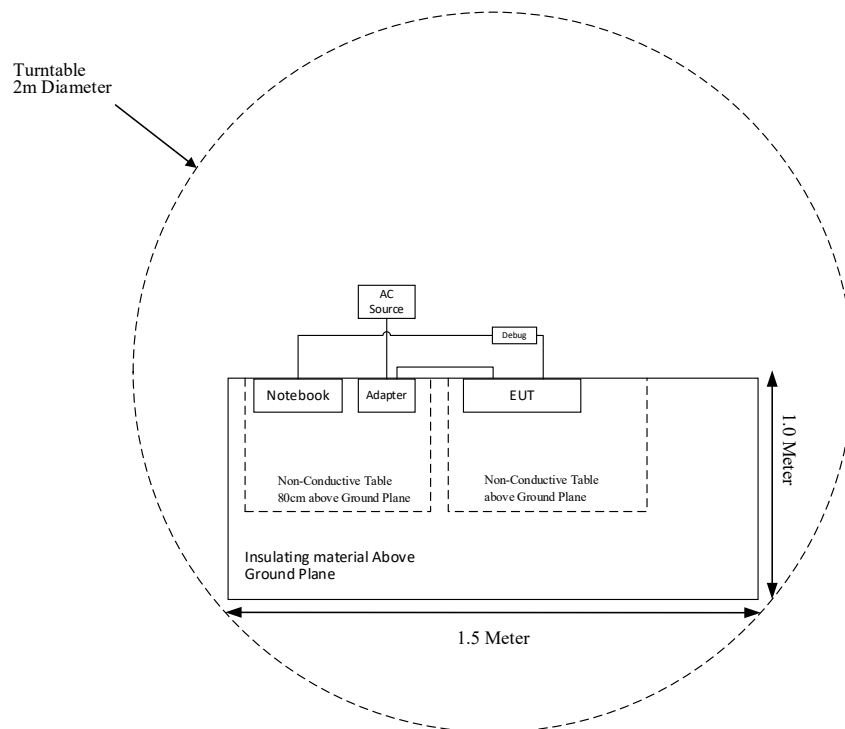
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



Note: The EUT Antenna 1.5m above Ground Plane.

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b)(1)& §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)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant

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	2024-08-05	2025-08-04
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	FSV40-N	103298	2025-04-08	2026-04-07
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	2024-07-28	2025-07-27
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).

FCC §1.1307(b) & §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

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.

Calculated Data:

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	2.0	1.58	5	0.5	3.0	Yes
BT	2402-2480	3.0	2	5	0.6	3.0	Yes

Note: BT and BLE cannot transmit simultaneously.

Result: No SAR test is required.

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 BT, and the antenna gain is 0.31 dBi, which is permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

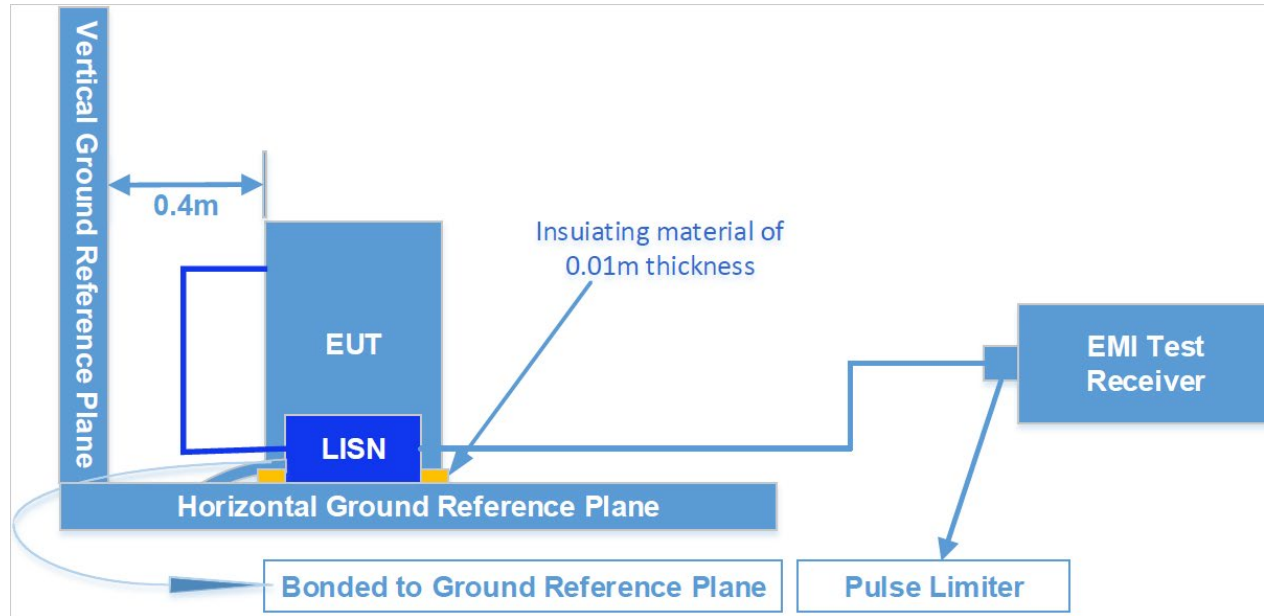
Result: Compliant.

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. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

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

Frequency Range	RBW	VBW
150 kHz - 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10-2020 clause 6.2

During the conducted emission test, the EUT or adapter 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:

$$\begin{aligned}\text{Factor (dB)} &= \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)} \\ \text{Level (dB}\mu\text{V)} &= \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)}\end{aligned}$$

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:

$$\text{Over Limit (dB)} = \text{Level (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)}$$

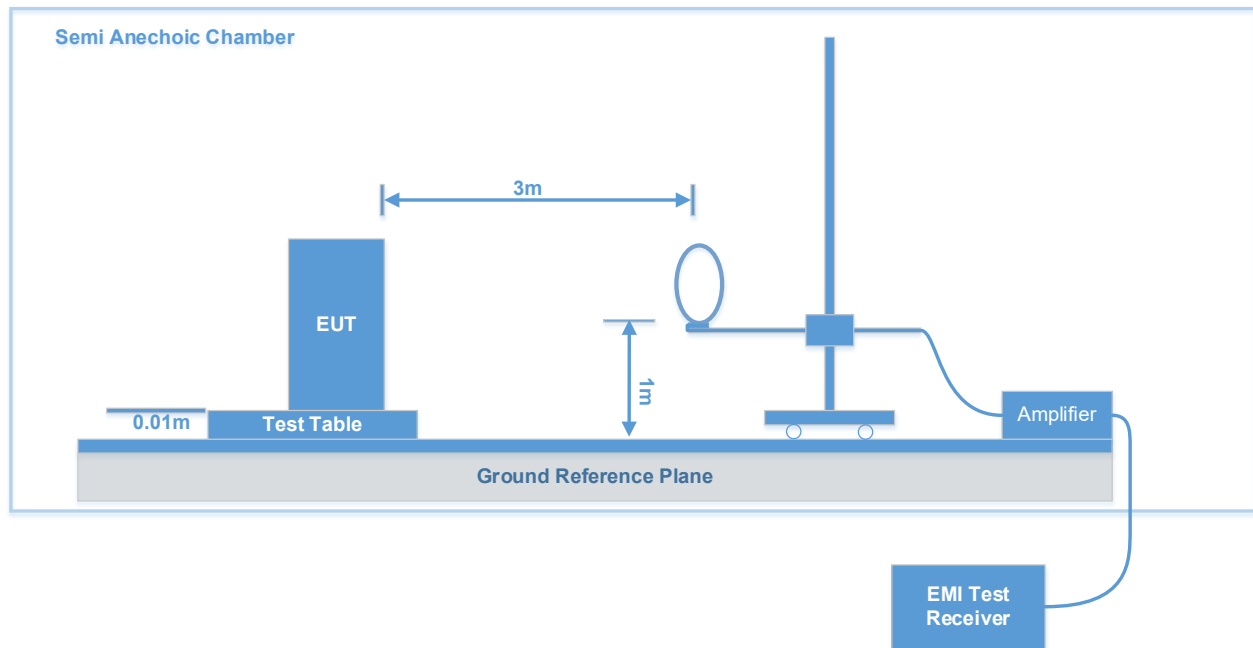
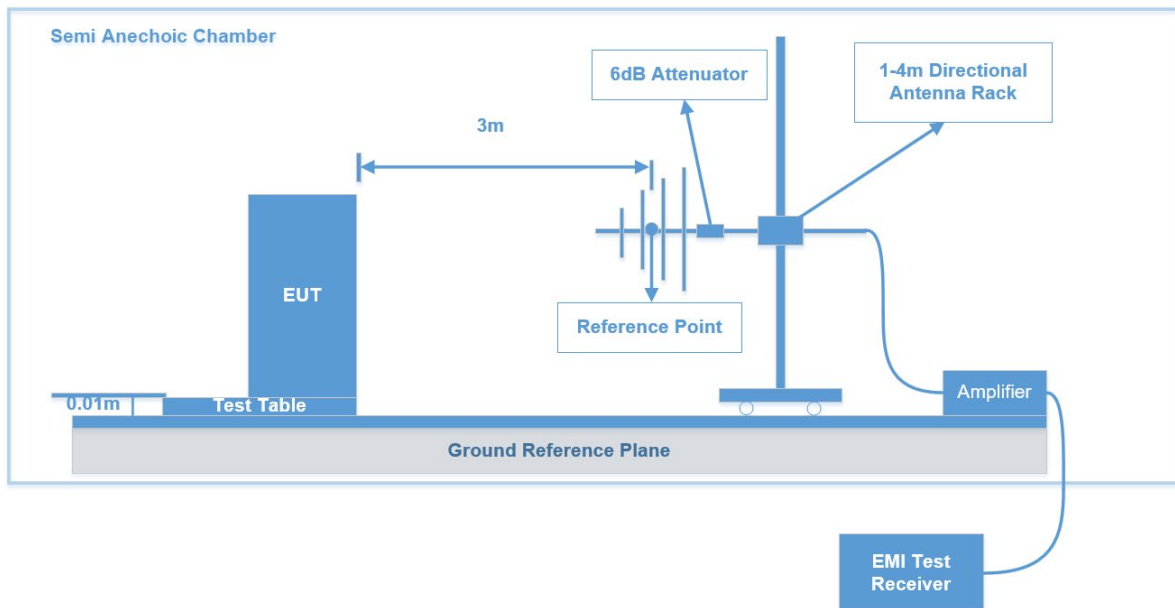
Test Results Summary

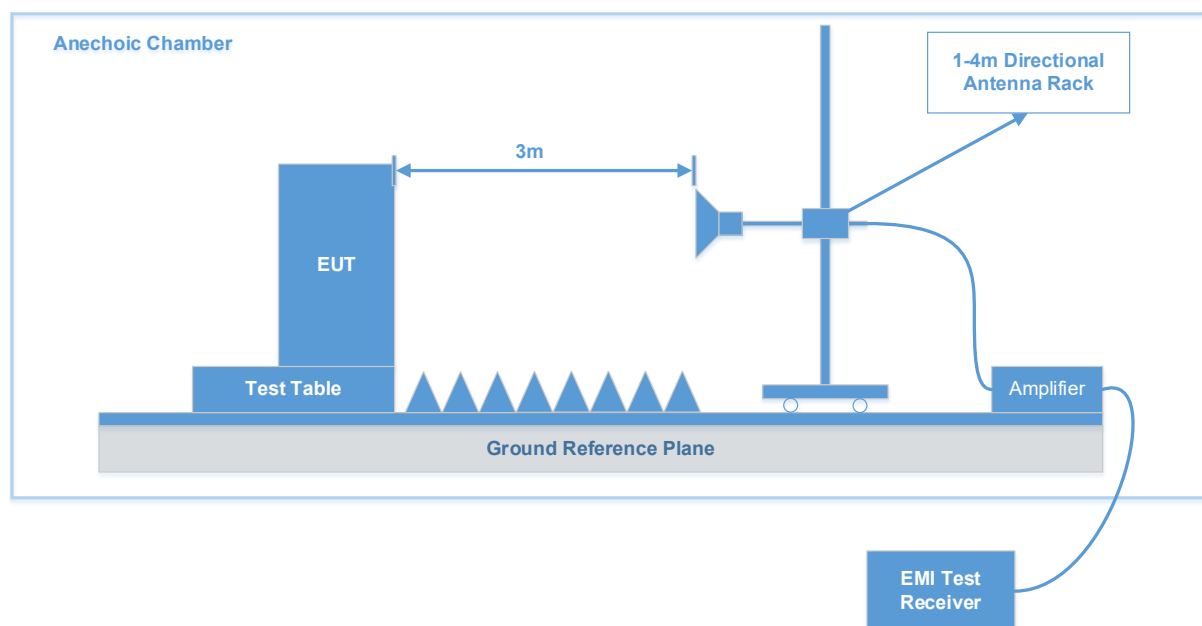
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS**Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

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

Above 1 GHz:

Note: The EUT Antenna 1.5m above Ground Plane.

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. 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
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

Test Procedure

According to ANSI C63.10-2020 clause 6.4, 6.5 and 6.6.

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:

Corrected Amplitude (dB μ V/m) = Meter Reading (dB μ V) + Antenna Factor (dB/m) + Cable Loss (dB) - 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:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ 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) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

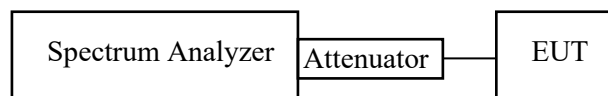
Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Wide enough to capture the peaks of two adjacent channels.
- RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- Video (or average) bandwidth (VBW) $\geq$ RBW.
- Sweep: Auto.
- Detector function: Peak.
- Trace: Max hold.
- Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.



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

Test Datd: See Appendix

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

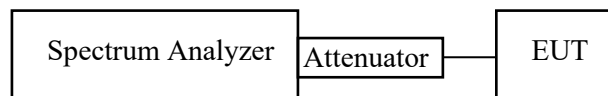
Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Test Procedure

According to ANSI C63.10-2020 sub-clause 6.9.2

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 it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



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

Test Datd: See Appendix

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

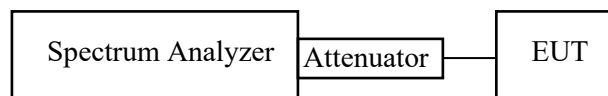
Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.3

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c. VBW $\geq$ RBW.
- d. Sweep: Auto.
- e. Detector function: Peak.
- f. Trace: Max hold.
- g. Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.



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

Test Datd: See Appendix

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

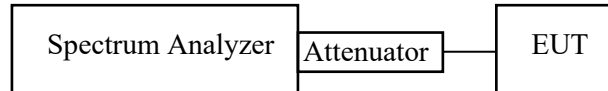
Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a. Span: Zero span, centered on a hopping channel.
- b. RBW shall be $\leq$ channel spacing and where possible RBW should be set $\geq 1 / T$, where T is the expected dwell time per channel.
- c. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d. Detector function: Peak.
- e. Trace: Max hold.



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

Test Datd: See Appendix

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

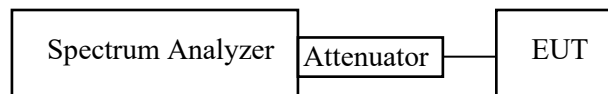
According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.5

a. Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW $\geq$ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b. Allow trace to stabilize.
- c. Use the marker-to-peak function to set the marker to the peak of the emission.
- d. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e. A plot of the test results and setup description shall be included in the test report.



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

Test Datd: See Appendix

FCC §15.247(d) - BAND EDGES TESTING

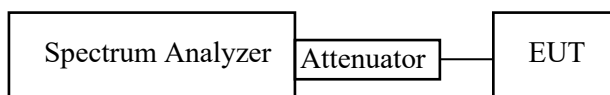
Applicable Standard

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 sub-clause 7.8.7

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 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: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Test Datd: See Appendix

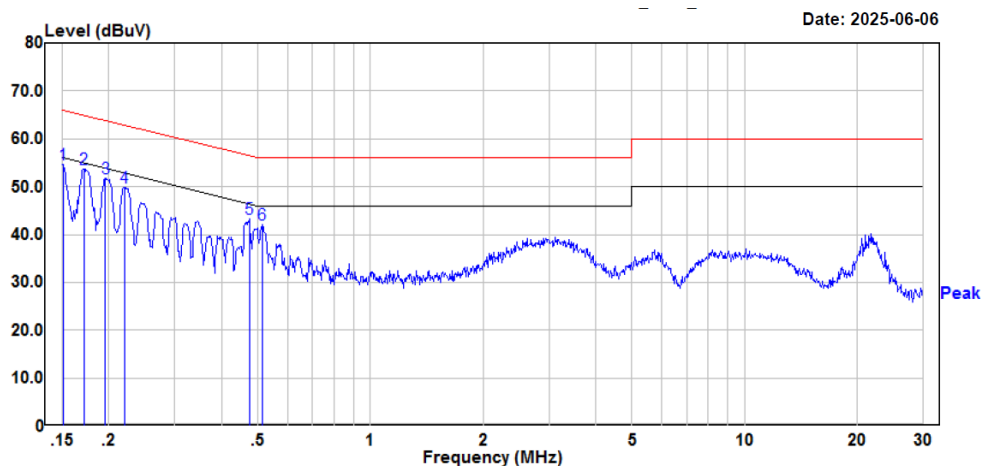
APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

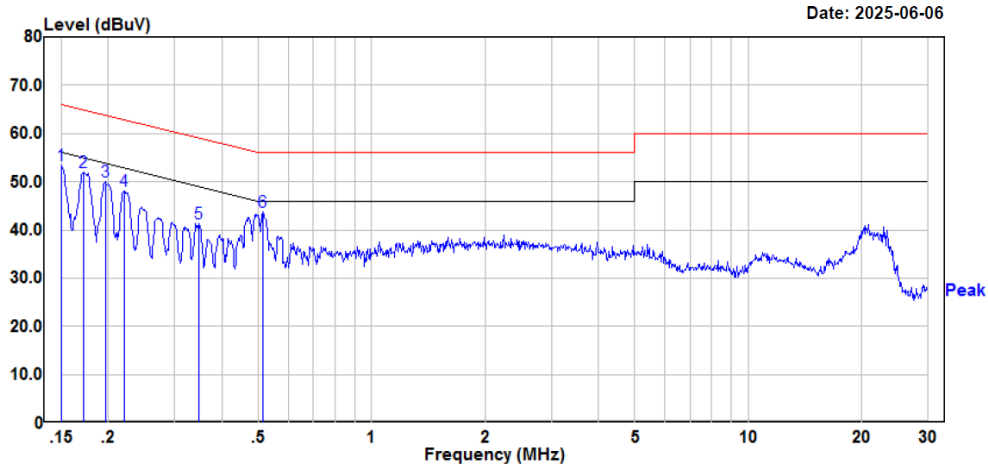
Test Date:	2025-06-06
Temperature:	25.1 °C
Relative Humidity:	45 %
ATM Pressure:	100.7 kPa
Test Result:	Pass
Test Engineer:	Myles Miao

EUT operation mode: Transmitting in 8DPSK Mode middle channel (maximum output power mode)



Site : CE
Condition : limit\FCC PART 15.207
: DET:Peak
Project No. : RKSA250519001
Model : K100 Pro US
Phase : L
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 25.1°C
Humidity : 45%
Atmospheric pressure: 100.7kPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.151	34.62	20.12	54.74	65.96	-11.22	Peak
2	0.172	33.58	20.13	53.71	64.88	-11.17	Peak
3	0.195	31.51	20.15	51.66	63.81	-12.15	Peak
4	0.220	29.70	20.15	49.85	62.81	-12.96	Peak
5	0.474	23.08	20.23	43.31	56.44	-13.13	Peak
6	0.514	21.93	20.19	42.12	56.00	-13.88	Peak



Site : CE
 Condition : limit\FCC PART 15.207
 : DET:Peak
 Project No. : RKSA250519001
 Model : K100 Pro US
 Phase : N
 Voltage : 120V/60Hz
 Mode : BT
 Test Equipment : ENV216, ESR3
 Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
 Temperature : 25.1°C
 Humidity : 45%
 Atmospheric pressure: 100.7kPa
 Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.150	33.31	20.12	53.43	66.00	-12.57	Peak
2	0.172	31.85	20.13	51.98	64.88	-12.90	Peak
3	0.196	29.98	20.15	50.13	63.76	-13.63	Peak
4	0.220	27.97	20.15	48.12	62.81	-14.69	Peak
5	0.347	21.06	20.22	41.28	59.04	-17.76	Peak
6	0.514	23.49	20.19	43.68	56.00	-12.32	Peak

RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS

Environmental Conditions & Test Information

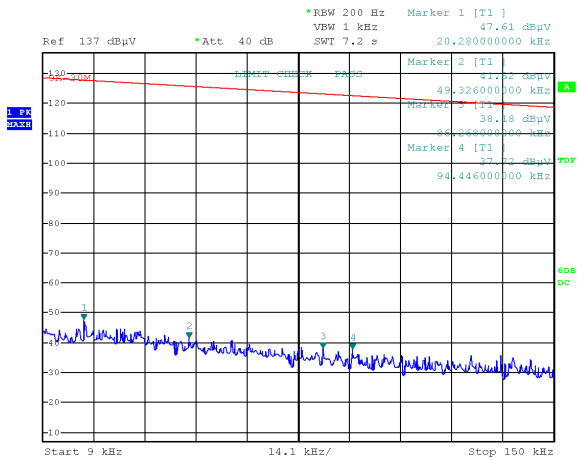
Test Item:	SPURIOUS EMISSIONS		
	9kHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-06-04	2025-06-05	2025-06-13
Temperature:	24.7 °C	24.3 °C	25.1 °C
Relative Humidity:	48 %	48 %	49 %
ATM Pressure:	100.9 kPa	101.1 kPa	101.6 kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Jonathan	Danny Zhu	Hugh Wu

EUT operation mode: Transmitting

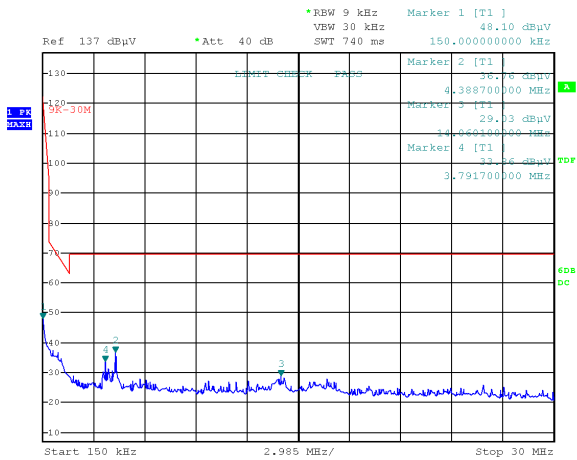
9 kHz-30 MHz: (Transmitting maximum output power 8DPSK Mode middle channel)

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



9kHz-150kHz

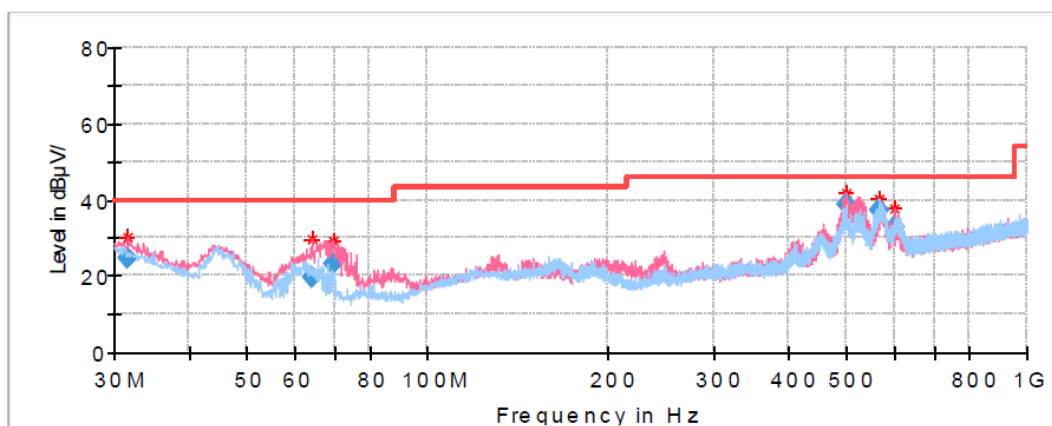
Frequency (kHz)	Corrected Amplitude (dB μ V/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dB μ V/m) @3m	Margin (dB)
0.020280	47.61	PK	-0.56	121.46	73.85
0.049326	41.52	PK	-3.70	113.74	72.22
0.086268	38.18	PK	-7.91	108.89	70.71
0.094446	37.72	PK	-8.68	108.10	70.38

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dB μ V/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dB μ V/m) @3m	Margin (dB)
0.15000	48.1	PK	-11.34	104.08	55.98
3.79170	33.86	PK	-31.81	69.54	35.68
4.38870	36.76	PK	-31.97	69.54	32.78
14.06010	29.03	PK	-33.11	69.54	40.51

30 MHz - 1 GHz (Transmitting in maximum output power 8DPSK mode):**Middle channel: 2441MHz****Common Information**

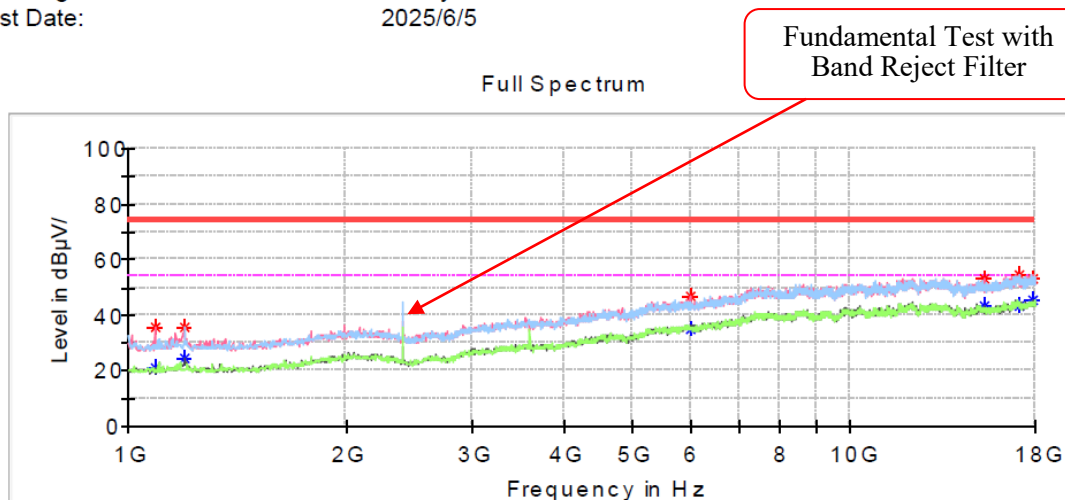
Project No: RKSA250519001
EUT Model: K100 Pro US
Test Mode: Transmitting in BT mode middle channel
Standard: FCC Part 15.205 & FCC Part 15.209 & FCC Part 15.247
Test Equipment: ESCI, JB3, 310N
Receiver Setting: RBW: 100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature: 23.5°C
Humidity: 45%
Barometric Pressure: 100.9kPa
Test Engineer: Jonathan
Test Date: 2025/6/4

**Final Result**

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
31.697500	24.90	40.00	15.10	V	-5.1
64.071250	19.66	40.00	20.34	V	-16.9
69.770000	22.93	40.00	17.07	V	-16.6
498.267500	38.54	46.00	7.46	V	-5.4
567.380000	37.02	46.00	8.98	H	-4.4
602.300000	32.79	46.00	13.21	V	-4.0

1 GHz - 18 GHz:**GFSK:****Low Channel: 2402 MHz****Common Information**

Project No.:	RKSA250519001
EUT Model:	K100 Pro US
Test Mode:	BT
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:	24.3°C
Humidity:	48%
Atmospheric Pressure:	101.1kPa
Test Engineer:	Danny Zhu
Test Date:	2025/6/5

**Critical_Freqs**

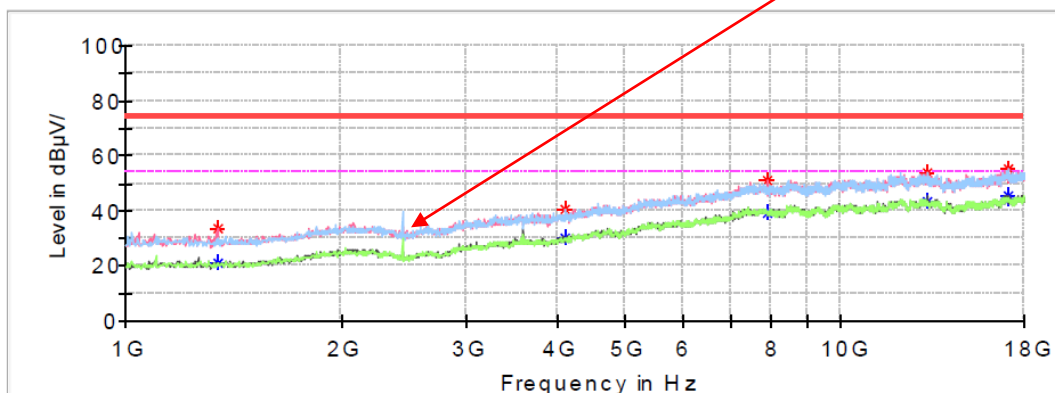
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1088.400000	35.37	---	74.00	38.63	V	-15.5
1088.400000	---	20.78	54.00	33.22	V	-15.5
1197.200000	---	24.24	54.00	29.76	H	-15.3
1197.200000	35.75	---	74.00	38.25	H	-15.3
5987.800000	46.95	---	74.00	27.05	V	-1.1
5987.800000	---	35.16	54.00	18.84	V	-1.1
15317.400000	---	43.33	54.00	10.67	V	8.6
15317.400000	52.88	---	74.00	21.12	V	8.6
17153.400000	---	43.17	54.00	10.83	V	11.0
17153.400000	54.83	---	74.00	19.17	V	11.0
17932.000000	53.00	---	74.00	21.00	H	11.6
17932.000000	---	45.32	54.00	8.68	H	11.6

Middle Channel: 2441 MHz**Common Information**

Project No.: RKSA250519001
 EUT Model: K100 Pro US
 Test Mode: BT
 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: 24.3°C
 Humidity: 48%
 Atmospheric Pressure: 101.1kPa
 Test Engineer: Danny Zhu
 Test Date: 2025/6/5

Fundamental Test with
Band Reject Filter

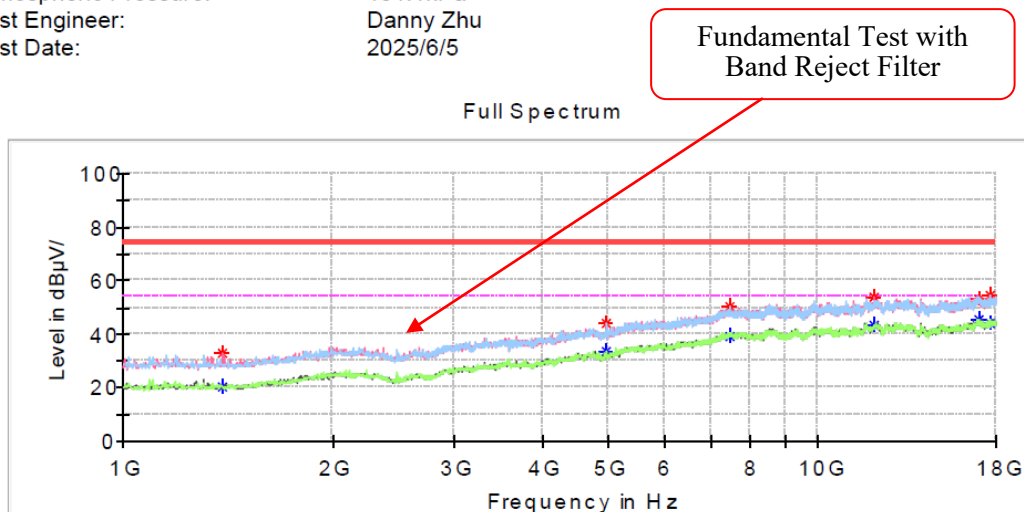
Full Spectrum

**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)
1343.400000	---	21.08	54.00	32.92	V	-15.0
1343.400000	33.57	---	74.00	40.43	V	-15.0
4117.800000	40.64	---	74.00	33.36	H	-6.1
4117.800000	---	30.03	54.00	23.97	H	-6.1
7895.200000	---	39.41	54.00	14.59	V	2.9
7895.200000	50.71	---	74.00	23.29	V	2.9
13206.000000	53.84	---	74.00	20.16	H	8.6
13206.000000	---	43.22	54.00	10.78	H	8.6
17088.800000	52.19	---	74.00	21.81	V	11.1
17088.800000	---	45.57	54.00	8.43	V	11.1
17167.000000	54.95	---	74.00	19.05	H	11.0
17167.000000	---	43.79	54.00	10.21	H	11.0

High Channel: 2480 MHz**Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

**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)
1391.000000	32.70	---	74.00	41.30	V	-14.9
1391.000000	---	20.11	54.00	33.89	V	-14.9
4957.600000	---	33.85	54.00	20.15	V	-3.6
4957.600000	44.02	---	74.00	29.98	V	-3.6
7446.400000	50.10	---	74.00	23.90	H	2.7
7446.400000	---	39.12	54.00	14.88	H	2.7
12060.200000	---	43.05	54.00	10.95	V	8.1
12060.200000	54.19	---	74.00	19.81	V	8.1
16990.200000	---	45.41	54.00	8.59	H	11.2
16990.200000	52.92	---	74.00	21.08	H	11.2
17663.400000	---	43.90	54.00	10.10	V	10.9
17663.400000	54.67	---	74.00	19.33	V	10.9

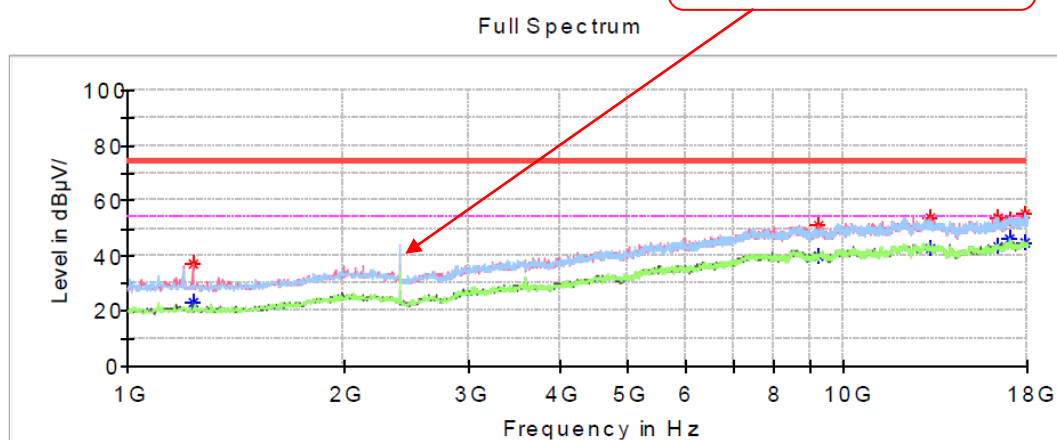
$\pi/4$ -DQPSK:

Low Channel: 2402 MHz

Common Information

Project No.: RKSA250519001
 EUT Model: K100 Pro US
 Test Mode: BT
 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: 24.3°C
 Humidity: 48%
 Atmospheric Pressure: 101.1kPa
 Test Engineer: Danny Zhu
 Test Date: 2025/6/5

Fundamental Test with
Band Reject Filter



Critical_Freqs

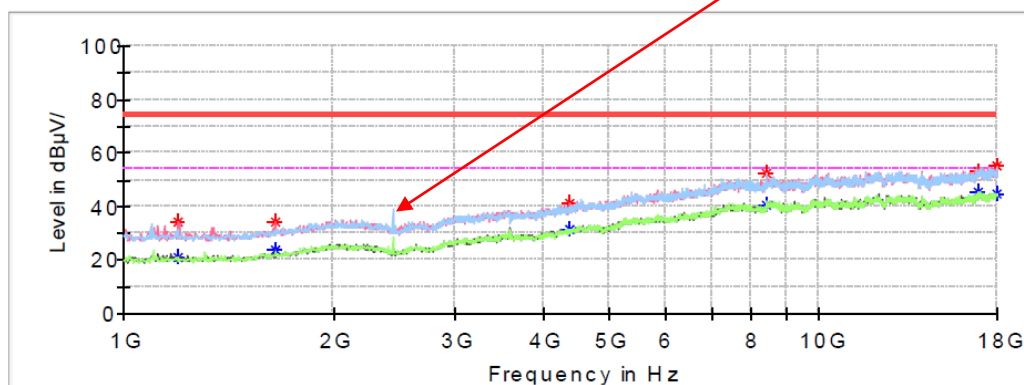
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1231.200000	37.21	---	74.00	36.79	V	-15.3
1231.200000	---	23.06	54.00	30.94	V	-15.3
9228.000000	---	40.12	54.00	13.88	V	4.4
9228.000000	50.91	---	74.00	23.09	V	4.4
13216.200000	53.82	---	74.00	20.18	V	8.6
13216.200000	---	42.79	54.00	11.21	V	8.6
16415.600000	---	43.12	54.00	10.88	H	9.5
16415.600000	53.58	---	74.00	20.42	H	9.5
17014.000000	53.04	---	74.00	20.96	H	11.2
17014.000000	---	45.95	54.00	8.05	H	11.2
17932.000000	54.91	---	74.00	19.09	H	11.6
17932.000000	---	44.77	54.00	9.23	H	11.6

Middle Channel: 2441 MHz**Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3℃
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

Fundamental Test with
Band Reject Filter

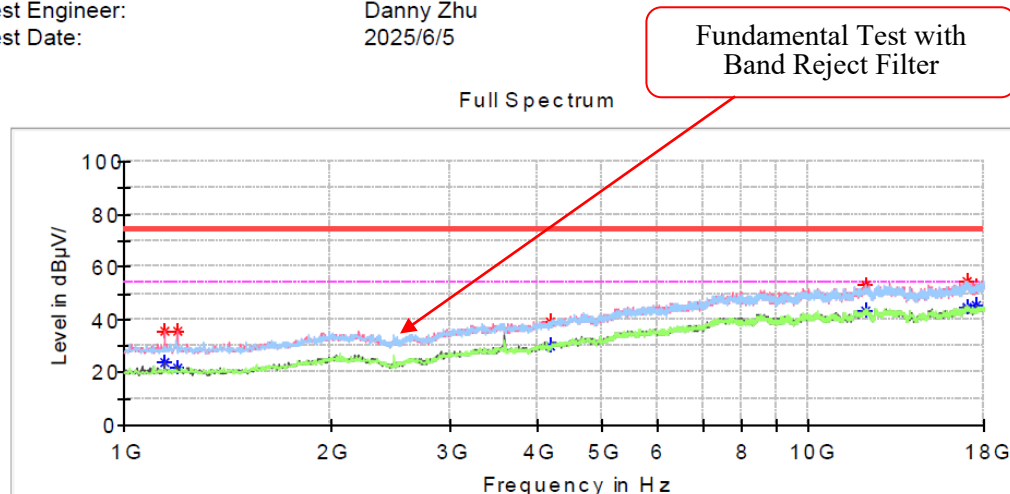
Full Spectrum

**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)
1197.200000	34.44	---	74.00	39.56	V	-15.3
1197.200000	---	20.96	54.00	33.04	V	-15.3
1652.800000	---	23.79	54.00	30.21	V	-13.4
1652.800000	34.05	---	74.00	39.95	V	-13.4
4389.800000	---	31.20	54.00	22.80	H	-5.2
4389.800000	41.49	---	74.00	32.51	H	-5.2
8415.400000	52.66	---	74.00	21.34	H	4.1
8415.400000	---	40.75	54.00	13.25	H	4.1
16969.800000	53.05	---	74.00	20.95	V	11.2
16969.800000	---	45.76	54.00	8.24	V	11.2
18000.000000	54.93	---	74.00	19.07	V	11.8
18000.000000	---	44.65	54.00	9.35	V	11.8

High Channel: 2480 MHz**Common Information**

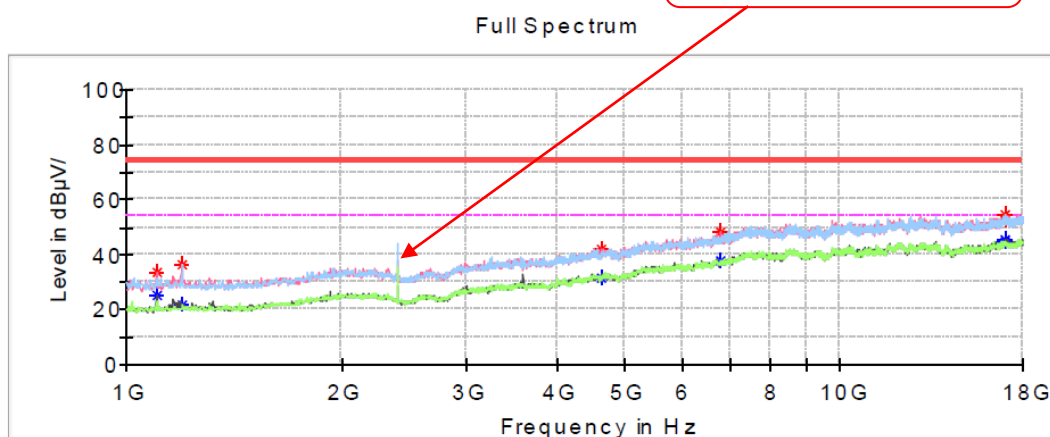
Project No.: RKSA250519001
 EUT Model: K100 Pro US
 Test Mode: BT
 Standard: FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 24.3°C
 Humidity: 48%
 Atmospheric Pressure: 101.1kPa
 Test Engineer: Danny Zhu
 Test Date: 2025/6/5

**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)
1146.200000	35.60	---	74.00	38.40	V	-15.4
1146.200000	---	23.68	54.00	30.32	V	-15.4
1193.800000	---	21.72	54.00	32.28	V	-15.3
1193.800000	35.54	---	74.00	38.46	V	-15.3
4179.000000	39.42	---	74.00	34.58	V	-5.9
4179.000000	---	29.91	54.00	24.09	V	-5.9
12087.400000	---	43.01	54.00	10.99	H	8.1
12087.400000	53.42	---	74.00	20.58	H	8.1
16997.000000	54.67	---	74.00	19.33	H	11.3
16997.000000	---	44.59	54.00	9.41	H	11.3
17602.200000	52.45	---	74.00	21.55	V	10.7
17602.200000	---	45.59	54.00	8.41	V	10.7

8DPSK:**Low Channel: 2402 MHz****Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

**Critical_Freqs**

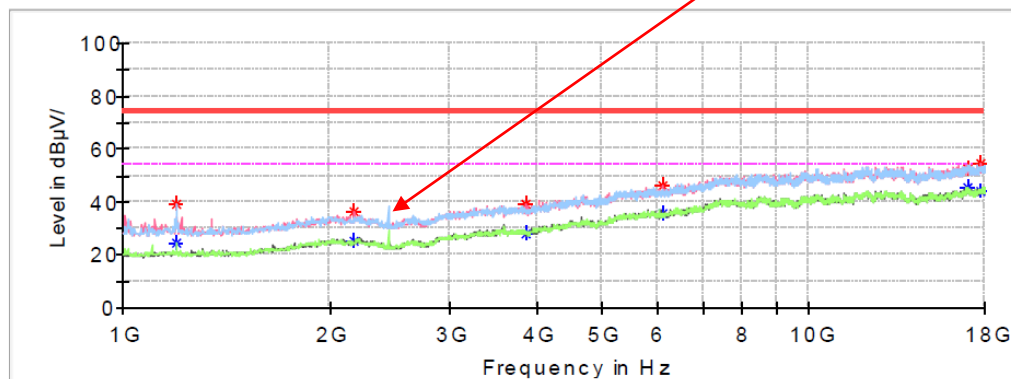
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1102.000000	33.65	---	74.00	40.35	V	-15.5
1102.000000	---	24.86	54.00	29.14	V	-15.5
1197.200000	---	21.97	54.00	32.03	H	-15.3
1197.200000	36.51	---	74.00	37.49	H	-15.3
4614.200000	42.23	---	74.00	31.77	V	-4.6
4614.200000	---	31.30	54.00	22.70	V	-4.6
6783.400000	---	37.51	54.00	16.49	V	0.7
6783.400000	48.59	---	74.00	25.41	V	0.7
16990.200000	54.51	---	74.00	19.49	H	11.2
16990.200000	---	44.75	54.00	9.25	H	11.2
16993.600000	---	45.66	54.00	8.34	V	11.2
16993.600000	52.56	---	74.00	21.44	V	11.2

Middle Channel: 2441 MHz**Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

Fundamental Test with
Band Reject Filter

Full Spectrum

**Critical_Freqs**

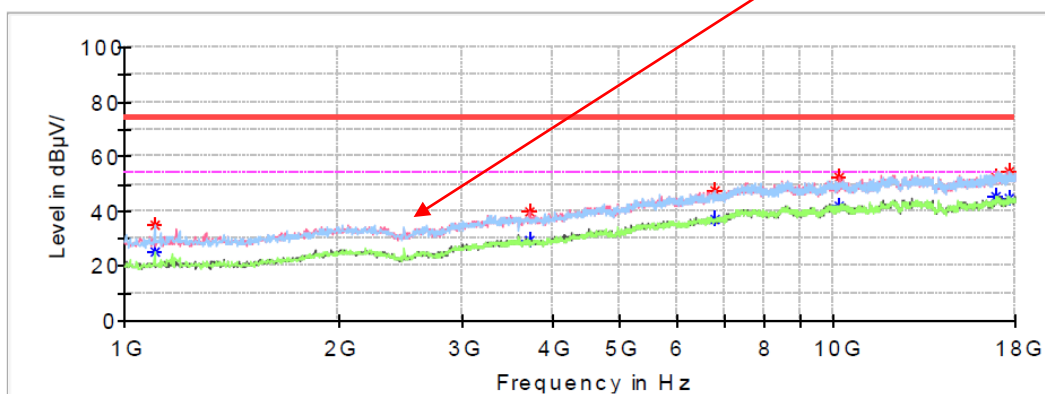
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1197.200000	38.92	---	74.00	35.08	H	-15.3
1197.200000	---	24.79	54.00	29.21	H	-15.3
2176.400000	---	25.43	54.00	28.57	V	-10.4
2176.400000	36.36	---	74.00	37.64	V	-10.4
3862.800000	39.49	---	74.00	34.51	V	-6.7
3862.800000	---	28.07	54.00	25.93	V	-6.7
6113.600000	---	35.98	54.00	18.02	H	-1.0
6113.600000	46.22	---	74.00	27.78	H	-1.0
17007.200000	---	45.69	54.00	8.31	V	11.2
17007.200000	52.31	---	74.00	21.69	V	11.2
17819.800000	---	44.26	54.00	9.74	V	11.3
17819.800000	54.28	---	74.00	19.72	V	11.3

High Channel: 2480 MHz**Common Information**

Project No.:	RKSA250519001
EUT Model:	K100 Pro US
Test Mode:	BT
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:	24.3°C
Humidity:	48%
Atmospheric Pressure:	101.1kPa
Test Engineer:	Danny Zhu
Test Date:	2025/6/5

Fundamental Test with
Band Reject Filter

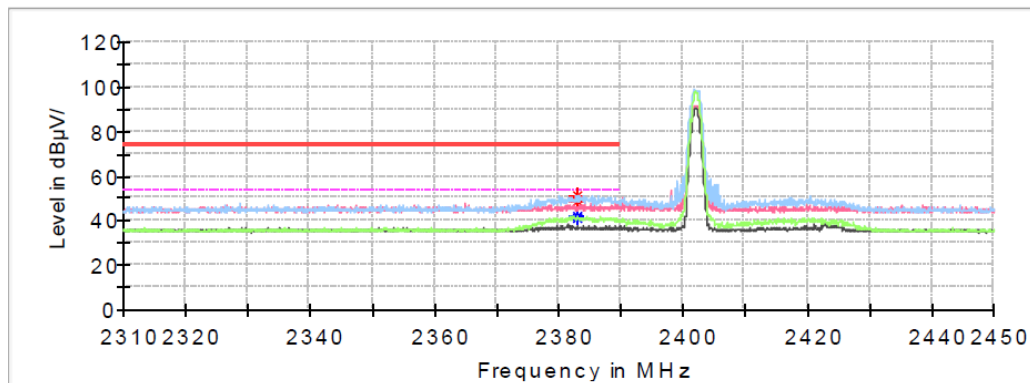
Full Spectrum

**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)
1102.000000	34.96	---	74.00	39.04	H	-15.5
1102.000000	---	25.16	54.00	28.84	H	-15.5
3713.200000	---	29.60	54.00	24.40	V	-6.9
3713.200000	40.00	---	74.00	34.00	V	-6.9
6814.000000	47.71	---	74.00	26.29	H	0.9
6814.000000	---	36.85	54.00	17.15	H	0.9
10203.800000	---	41.64	54.00	12.36	V	6.1
10203.800000	52.63	---	74.00	21.37	V	6.1
16891.600000	---	45.47	54.00	8.53	H	10.9
16891.600000	52.42	---	74.00	21.58	H	10.9
17680.400000	---	44.47	54.00	9.53	V	10.9
17680.400000	54.81	---	74.00	19.19	V	10.9

Band Edge:**GFSK:****Left Side****Common Information**

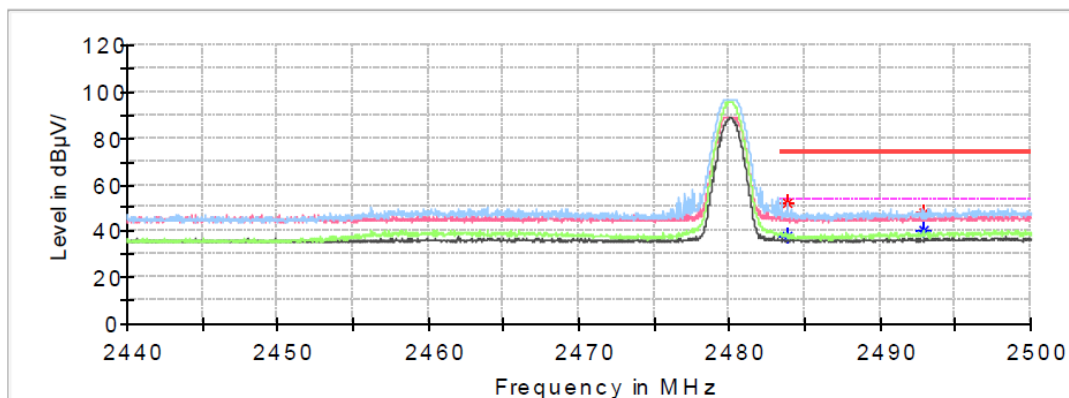
Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

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)
2382.968000	51.40	---	74.00	22.60	H	-0.3
2382.968000	---	40.93	54.00	13.07	H	-0.3
2383.080000	48.96	---	74.00	25.04	H	-0.3
2383.080000	---	42.13	54.00	11.87	H	-0.3

Right Side**Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

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)
2483.824000	51.64	---	74.00	22.36	H	-0.2
2483.824000	---	37.65	54.00	16.35	H	-0.2
2492.824000	47.64	---	74.00	26.36	H	-0.2
2492.824000	---	40.24	54.00	13.76	H	-0.2

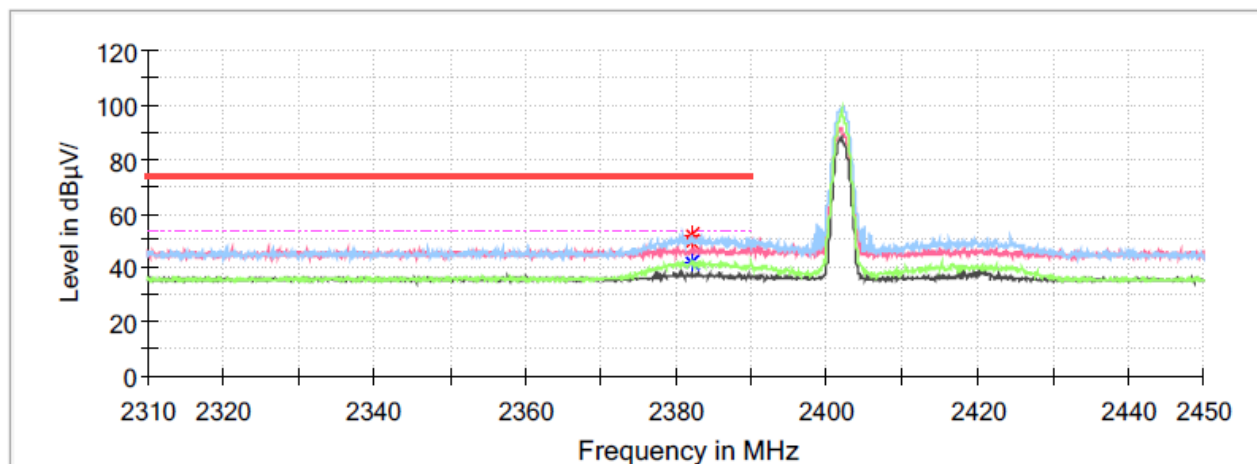
$\pi/4$ -DQPSK:

Left Side

Common Information

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

Full Spectrum



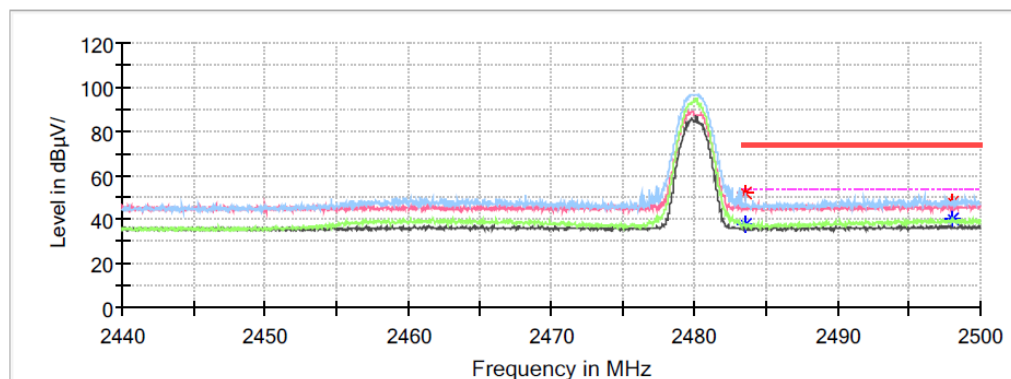
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2382.184000	52.07	---	74.00	21.93	H	-0.3
2382.184000	---	41.57	54.00	12.43	H	-0.3
2382.240000	49.89	---	74.00	24.11	H	-0.3
2382.240000	---	42.34	54.00	11.66	H	-0.3

Right Side**Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3℃
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

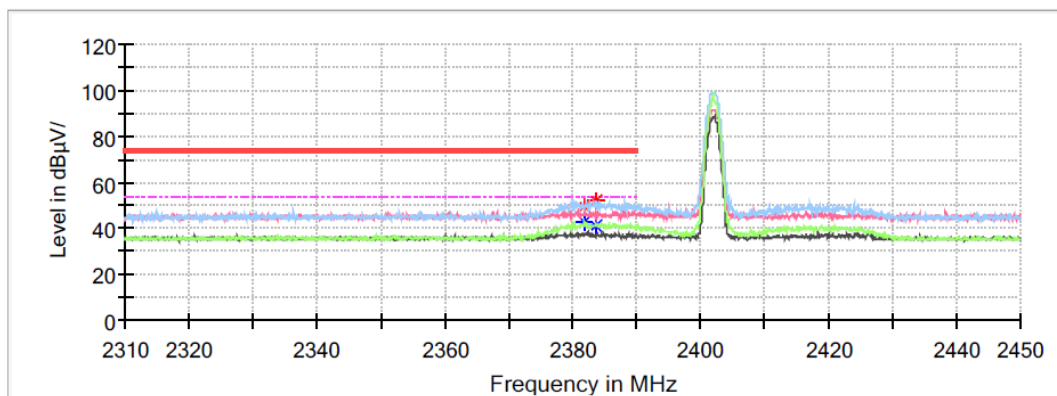
Full Spectrum

**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)
2483.608000	52.13	---	74.00	21.87	H	-0.2
2483.608000	---	38.15	54.00	15.85	H	-0.2
2498.008000	47.71	---	74.00	26.29	H	-0.2
2498.008000	---	40.45	54.00	13.55	H	-0.2

8DPSK:**Left Side****Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

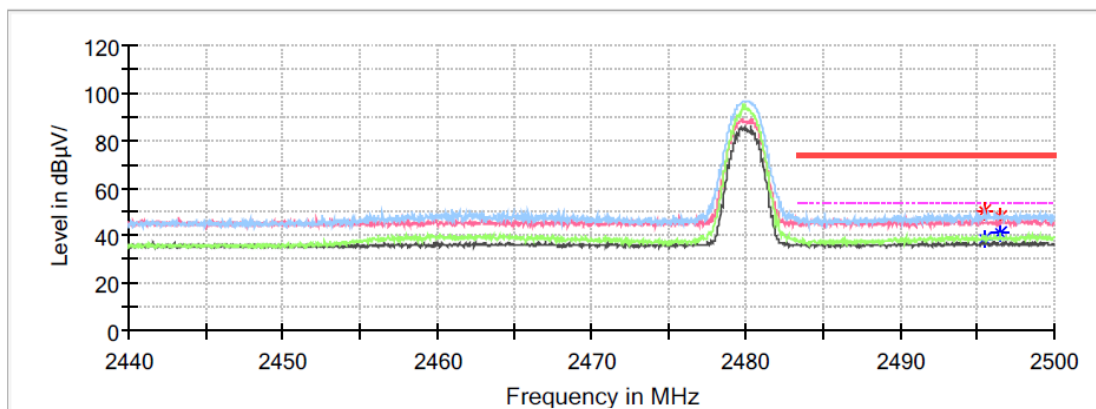
Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2381.960000	---	42.61	54.00	11.39	H	-0.3
2381.960000	49.47	---	74.00	24.53	H	-0.3
2383.528000	---	41.52	54.00	12.48	H	-0.3
2383.528000	51.91	---	74.00	22.09	H	-0.3

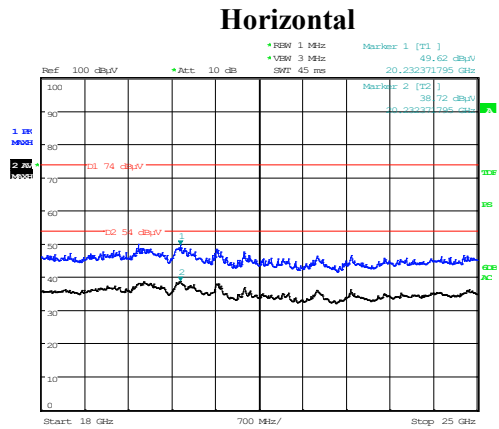
Right Side**Common Information**

Project No.: RKSA250519001
EUT Model: K100 Pro US
Test Mode: BT
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: 24.3°C
Humidity: 48%
Atmospheric Pressure: 101.1kPa
Test Engineer: Danny Zhu
Test Date: 2025/6/5

Full Spectrum

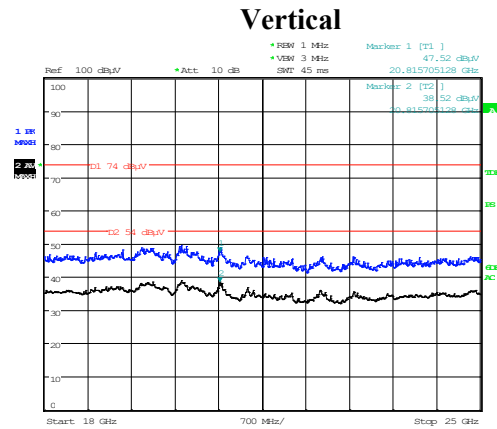
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2495.536000	50.57	---	74.00	23.43	H	-0.2
2495.536000	---	38.59	54.00	15.41	H	-0.2
2496.544000	48.21	---	74.00	25.79	H	-0.2
2496.544000	---	40.89	54.00	13.11	H	-0.2

18 GHz - 25 GHz(Transmitting in maximum output power 8DPSK mode):

Project No : RKSA250519001
Date: 13.JUN.2025 21:12:45

Tester :Hugh Wu



Project No : RKSA250519001
Date: 13.JUN.2025 21:45:28

Tester :Hugh Wu

Frequency (GHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
20.82	---	38.52	54	15.48	V	13.02
20.82	47.52	---	74	26.48	V	13.02
20.23	---	38.72	54	15.28	H	12.49
20.23	49.62	---	74	24.38	H	12.49

Note: The test distance is 3m. The limit is 74dB μ V/m(Peak) and 54dB μ V/m(Average).

CHANNEL SEPARATION TEST**Environmental Conditions & Test Information**

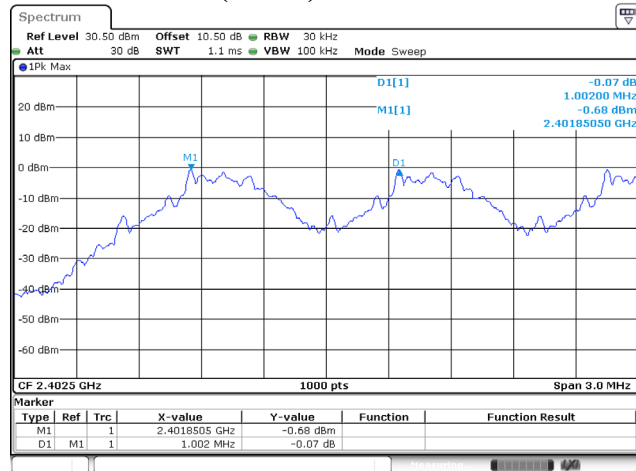
Test Date:	2025-06-04
Temperature:	24.7 °C
Relative Humidity:	48 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

Mode	Channel	Result (MHz)	Limit (MHz)	Result
GFSK	Low	1.002	0.875	Pass
	Middle	1.005	0.875	Pass
	High	0.999	0.875	Pass

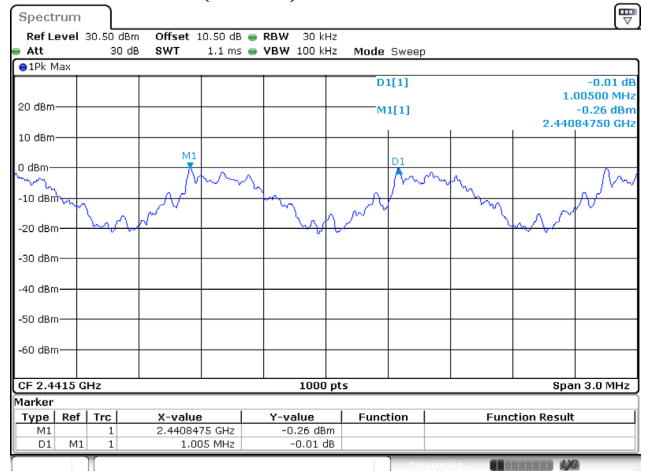
Note: Only GFSK mode result is reported since EDR($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan.
Limit = 20 dB bandwidth*2/3

BDR (GFSK): Low Channel



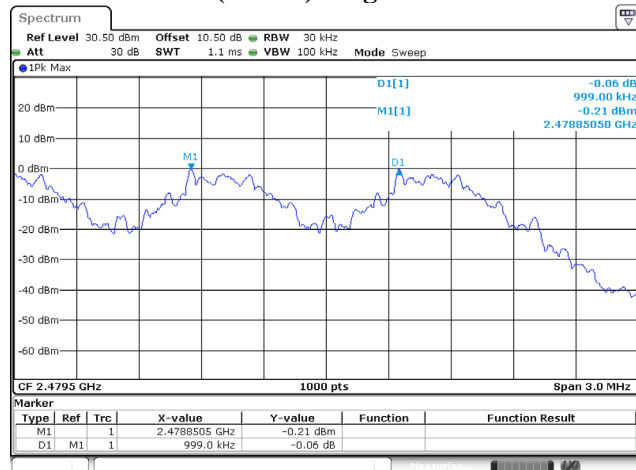
ProjectNo.: RKSA250519001 Tester: Neil Zhou
Date: 4 JUN 2025 14:54:30

BDR (GFSK): Middle Channel



ProjectNo.: RKSA250519001 Tester: Neil Zhou
Date: 4 JUN 2025 14:56:47

BDR (GFSK): High Channel



ProjectNo.: RKSA250519001 Tester: Neil Zhou
Date: 4 JUN 2025 14:58:42

20 dB BANDWIDTH TEST**Environmental Conditions & Test Information**

Test Date:	2025-06-04
Temperature:	24.7 °C
Relative Humidity:	48 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	1.033
	Middle	2441	1.036
	High	2480	1.033
EDR ($\pi/4$-DQPSK)	Low	2402	1.294
	Middle	2441	1.288
	High	2480	1.312
EDR (8DPSK)	Low	2402	1.255
	Middle	2441	1.261
	High	2480	1.264