

FCC PART 15.247 TEST REPORT

For

ComNav Technology Ltd.

Building 2, No.618 Chengliu Middle Rd. shanghai, China

FCC ID: 2ACHBMERCURY

Report Type: Original Report	Product Name: GNSS Receiver
Report Number: <u>RKSA260302001-00C</u>	
Report Date: <u>2026-06-03</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	RKSA260302001-00C	R1V1	2026-06-03	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	ComNav Technology Ltd.
Tested Model:	Mercury
Product Name:	GNSS Receiver
Power Supply:	DC 5V/9V from adapter or DC 7.3V from battery
Maximum Output Power:	GFSK: 5.92 dBm $\pi/4$ -DQPSK: 5.30 dBm 8DPSK: 5.66 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
Antenna Type	PCB Antenna
★Maximum Antenna Gain:	-0.06 dBi
Sample/EUT Status	Good condition

Adapter Information:

Model: QJ15QC09-ZU

Input: 100-240V, 50/60Hz, 0.5A Max

Output: 5.0V,3.0A 9V,2.0A 12V,1.5A

All measurement and test data in this report was gathered from production sample serial number: RKSA260302001-1 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2026-03-02.)

Objective

This test report is prepared for *ComNav Technology 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	...	...
...	...	...	...
38	2440	78	2480
39	2441	/	/

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

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

RF Test Tool: adb

★Power level: 9

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

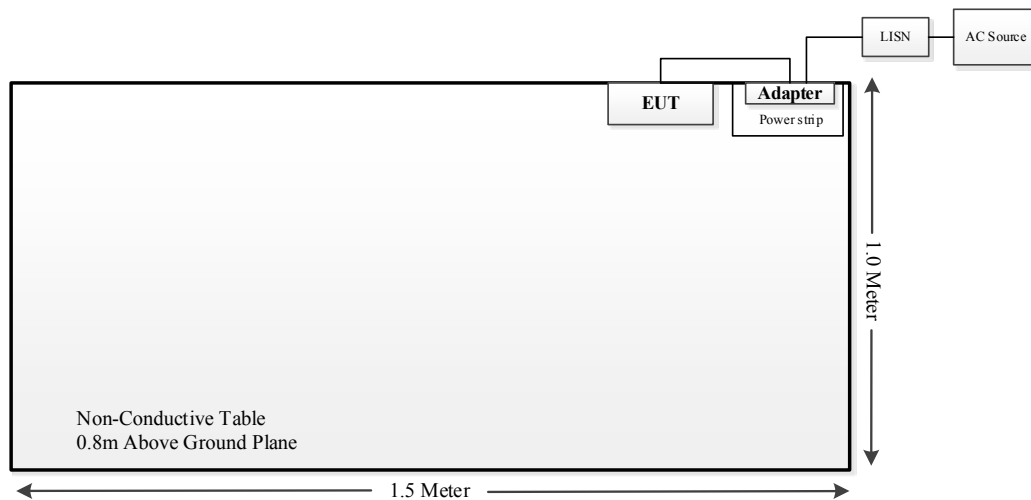
No modification was made to the EUT tested.

Support Equipment List and Details

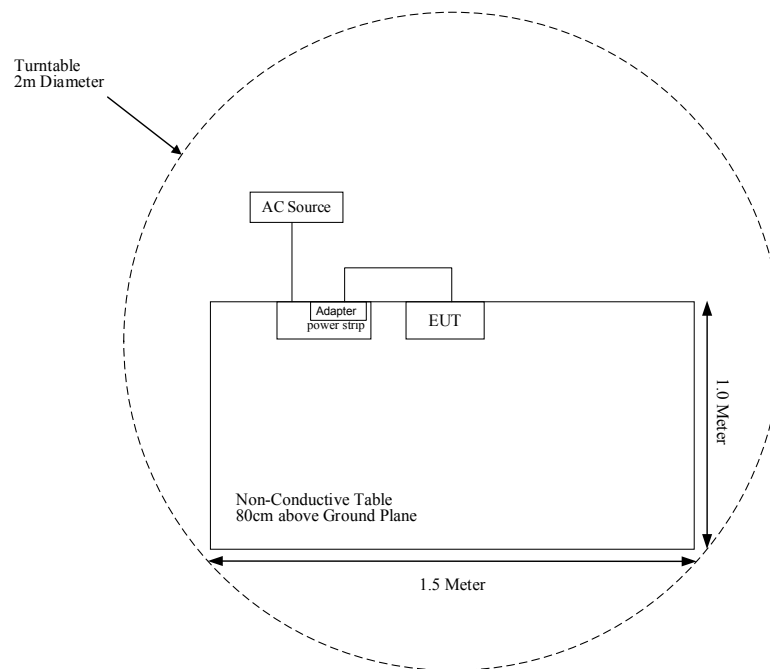
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

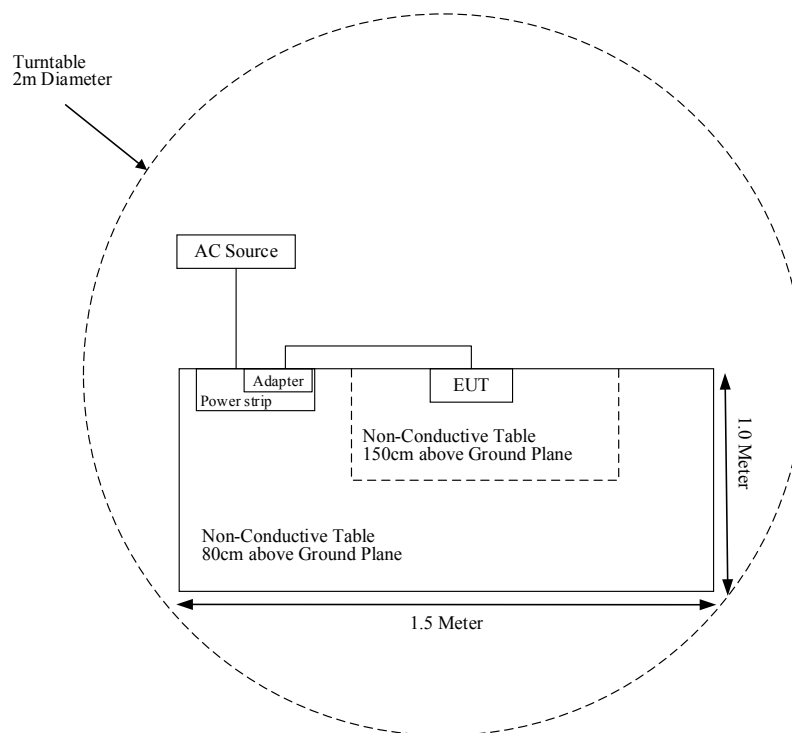
Cable Description	Length (m)	From Port	To Port
Power Cable	1.0	AC Source/LISN	Power strip
USB Cable	1.0	Adapter	EUT

Block Diagram of Test Setup**For Conducted Emissions:**

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



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 & Conducted Spurious Emission	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	2026-03-13	2027-03-12
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07
Narda	6dB Attenuator	773-6	10690812-2-1	2024-11-08	2027-11-07
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
Sonoma Instrument	Pre-amplifier	310N	171205	2026-03-13	2027-03-12
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-9	009	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-10	010	2026-03-13	2027-03-12
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2026-03-16	2027-03-15
EMCO	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	2026-03-16	2027-03-15
SELECTOR	Amplifier	EM18G40G	60726	2026-03-16	2027-03-15
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2026-04-08	2027-04-07
Narda	Attenuator	10dB	010	2026-03-12	2027-03-11
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-11	011	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-12	012	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-13	013	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-25	025	2026-03-12	2027-03-11

RF Conducted Test					
Rohde & Schwarz	EMI Test Receiver	FSU26	200103	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-12	2027-03-11
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	101746	2026-03-13	2027-03-12
Rohde & Schwarz	LISN	ENV216	101115	2026-03-12	2027-03-11
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	2026-03-13	2027-03-12

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 §15.247(i) and §1.1310, 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 KDB447498 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:

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

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 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)				
BT	2402-2480	6.0	3.98	5.0	1.3	3.0	Yes

Note:

1. For the above tune up power were declared by the manufacturer.

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 have a PCB antenna which permanently attached to the unit. Fulfill the requirement of this section. Please refer to the EUT photos.

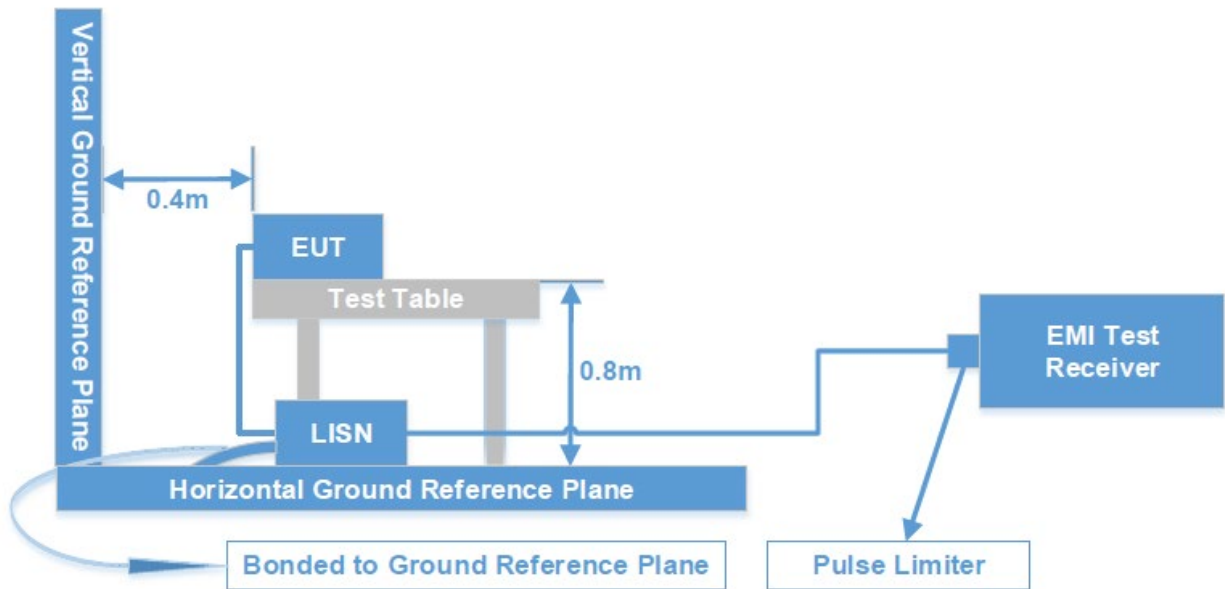
Result: Compliant.

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
150 kHz - 30 MHz	9 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:

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

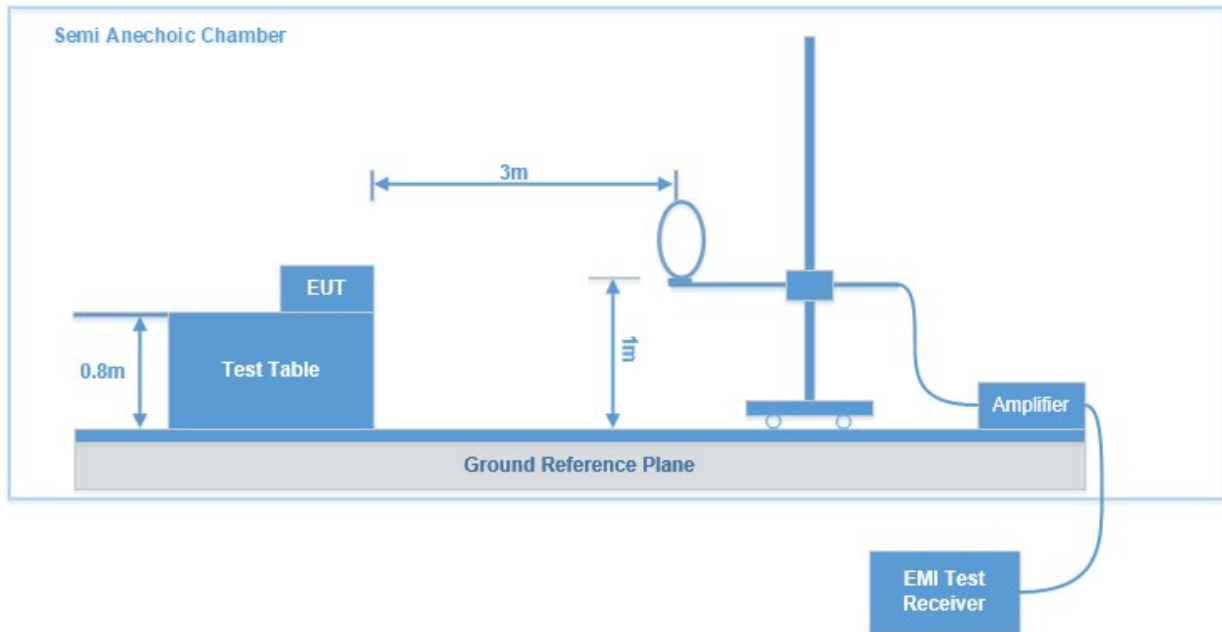
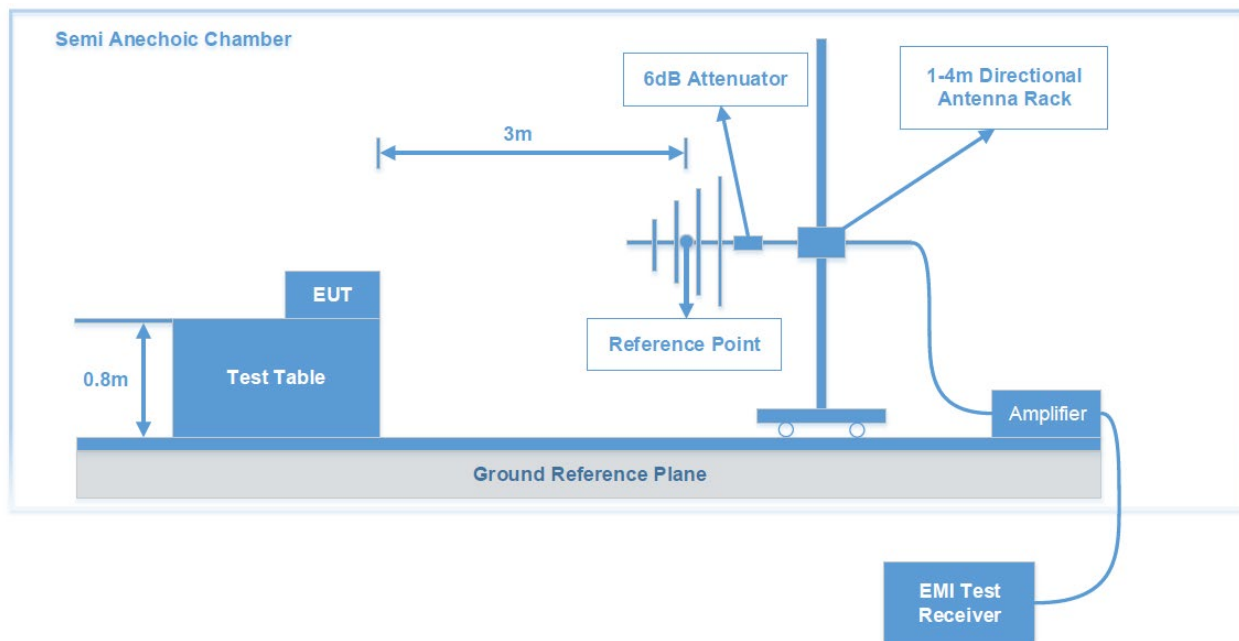
Test Results Summary

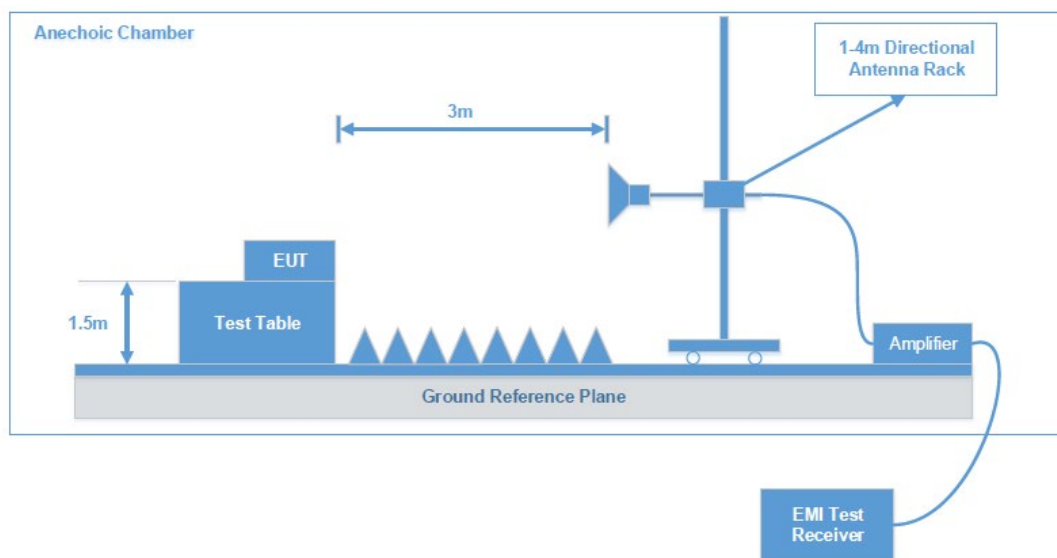
According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

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:

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	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	Peak/QP	Peak/QP
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP	Peak/QP
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

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:

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

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) (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.

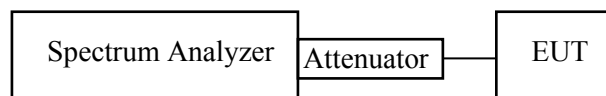
Test Procedure

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

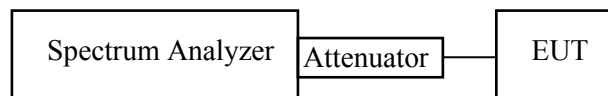
Applicable Standard

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.

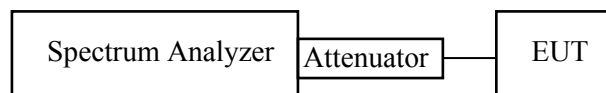
Test Procedure

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

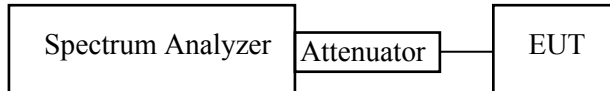
Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions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

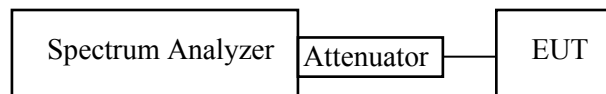
According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125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

Band Edges

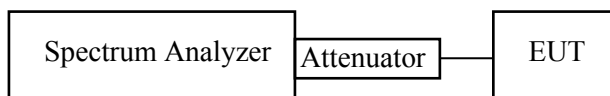
Applicable Standard

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)

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)).

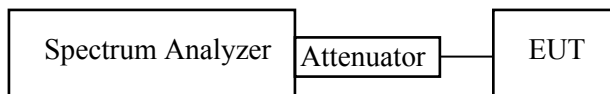
Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.1

To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.

The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.



Note: Offset (13dB) = Attenuator (10dB) + Cable Loss (3.0dB)

Test Datd: See Appendix

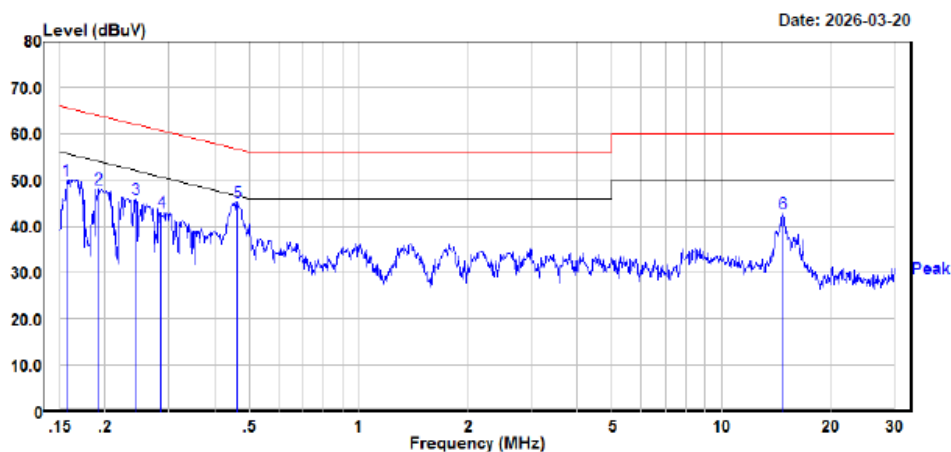
APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

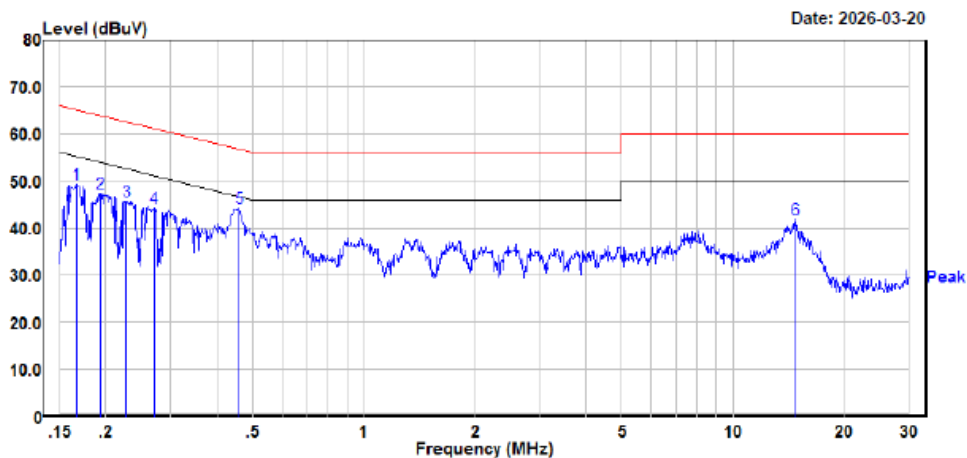
Test Date:	2026-03-20
Temperature:	16.6°C
Relative Humidity:	45 %
ATM Pressure:	102.3 kPa
Test Result:	Pass
Test Engineer:	Aiden Feng

EUT operation mode: Transmitting in GFSK Mode high channel (maximum output power mode)



Site : CE
Condition : limit\FCC PART 15.207
Project No. : RKSA260302001
Model : Mercury
Phase : L
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto
Temperature : 16.6℃
Humidity : 45%
Atmospheric pressure: 102.3kPa
Test Engineer : Aiden Feng
Check by : Bard Liu

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB
1	0.156	29.56	20.42	49.98	65.67	-15.69 Peak
2	0.192	27.64	20.47	48.11	63.93	-15.82 Peak
3	0.243	25.53	20.42	45.95	61.98	-16.03 Peak
4	0.285	22.73	20.39	43.12	60.66	-17.54 Peak
5	0.463	25.03	20.26	45.29	56.64	-11.35 Peak
6	14.709	22.43	20.27	42.70	60.00	-17.30 Peak



Site : CE
Condition : limit\FCC PART 15.207
DET:Peak
Project No. : RKSA260302001
Model : Mercury
Phase : N
Voltage : 120V/60Hz
Mode : BT
Test Equipment : ENV216, ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 16.6°C
Humidity : 45%
Atmospheric pressure: 102.3kPa
Test Engineer : Aiden Feng
Check by : Bard Liu

	Freq MHz	Read		Level dBuV	Limit Line dBuV	Over Limit dB	Remark
		Level dBuV	Factor dB				
1	0.167	28.82	20.41	49.23	65.13	-15.90	Peak
2	0.193	26.94	20.43	47.37	63.89	-16.52	Peak
3	0.227	25.33	20.40	45.73	62.56	-16.83	Peak
4	0.270	23.83	20.37	44.20	61.11	-16.91	Peak
5	0.460	23.85	20.28	44.13	56.69	-12.56	Peak
6	14.709	21.65	20.27	41.92	60.00	-18.08	Peak

RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS**Environmental Conditions & Test Information**

Test Item:	SPURIOUS EMISSIONS			
	9kHz – 30MHz	30MHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2026-03-23	2026-03-24	2026-04-15	2026-05-09
Temperature:	21.3 °C	18.7 °C	18.3 °C	18.9°C
Relative Humidity:	52 %	55 %	50%	50 %
ATM Pressure:	101.8kPa	102.0 kPa	101.6 kPa	101.5 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Destine Hu	Destine Hu	Hugh Wu

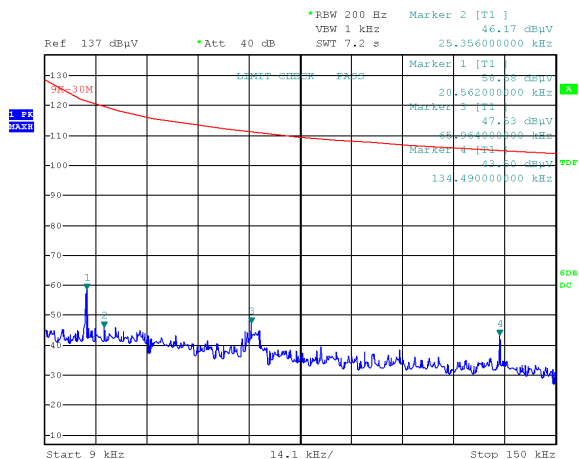
EUT operation mode: Transmitting

After pre-scan in the X, Y and Z axes of orientation. The worst-case in X axes as below.

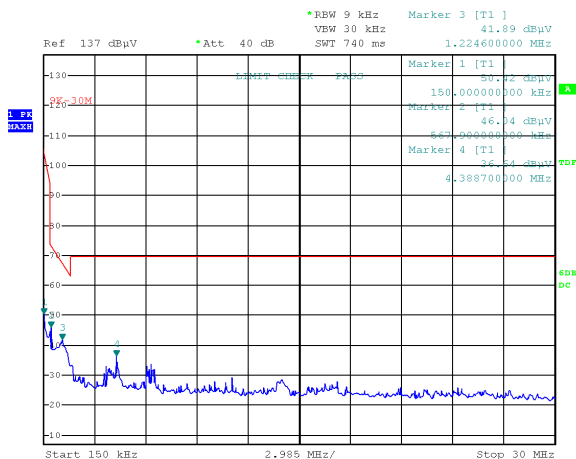
9 kHz-30 MHz: Transmitting in GFSK Mode high channel (maximum output power mode)

Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RKSA260302001
 Date: 23.MAR.2026 19:59:08

Tester:Scarfe Yang

Project No.RKSA260302001
 Date: 23.MAR.2026 21:05:24

Tester:Scarfe Yang

9kHz-150kHz

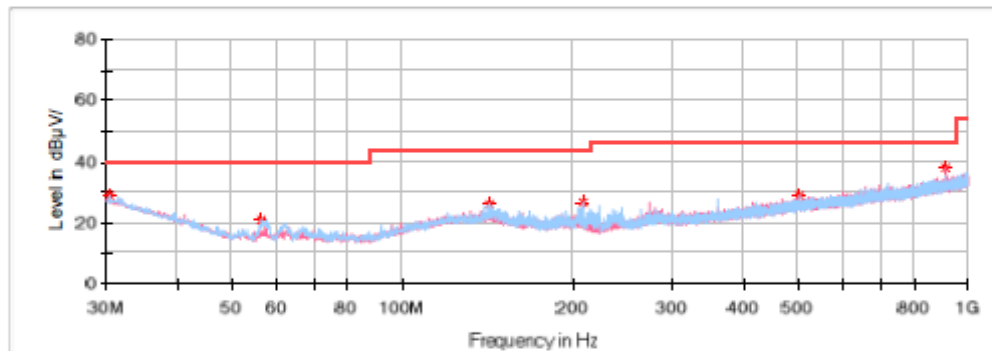
Frequency (kHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
20.5620	58.58	PK	-0.56	121.34	62.76
25.3560	46.17	PK	-0.59	119.52	73.35
65.9640	47.53	PK	-5.67	111.22	63.69
134.4900	43.50	PK	-10.68	105.03	61.53

150kHz-30MHz

Frequency (MHz)	Corrected Amplitude (dBμV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBμV/m) @3m	Margin (dB)
0.1500	50.42	PK	-11.34	104.08	53.66
0.5679	46.04	PK	-23.27	72.52	26.48
1.2246	41.89	PK	-28.35	65.84	23.95
4.3887	36.64	PK	-31.97	69.54	32.90

30 MHz - 1 GHz Transmitting in GFSK Mode high channel (maximum output power mode):**High Channel: 2480 MHz****Common Information**

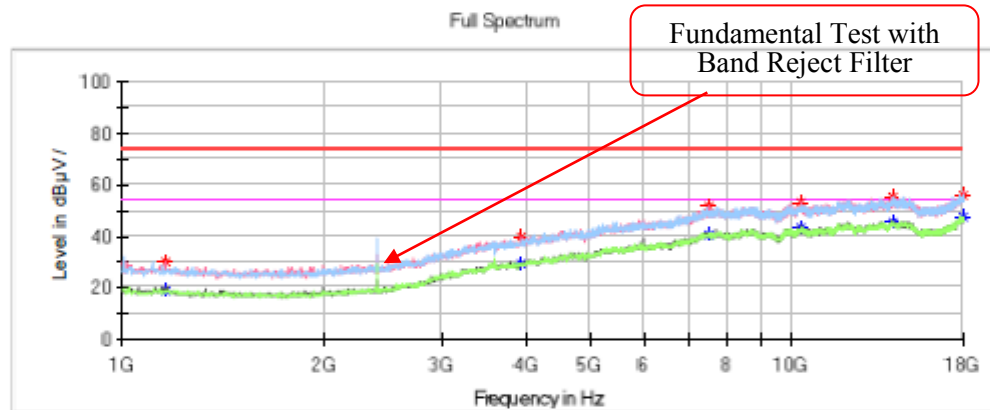
Project No:	RKSA260302001
EUT Model:	Mercury
Test Mode:	BT DH1 High Channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	18.7°C
Humidity:	55%
Atmospheric Pressure:	102.0kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/3/24

**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Pol	Corr. (dB/m)
30.363750	28.89	40.00	11.11	H	-5.0
56.553750	20.82	40.00	19.18	H	-17.1
142.277500	26.22	43.50	17.28	H	-11.3
208.965000	26.48	43.50	17.02	H	-12.7
504.451250	28.71	46.00	17.29	H	-5.3
911.245000	37.89	46.00	8.11	V	1.2

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

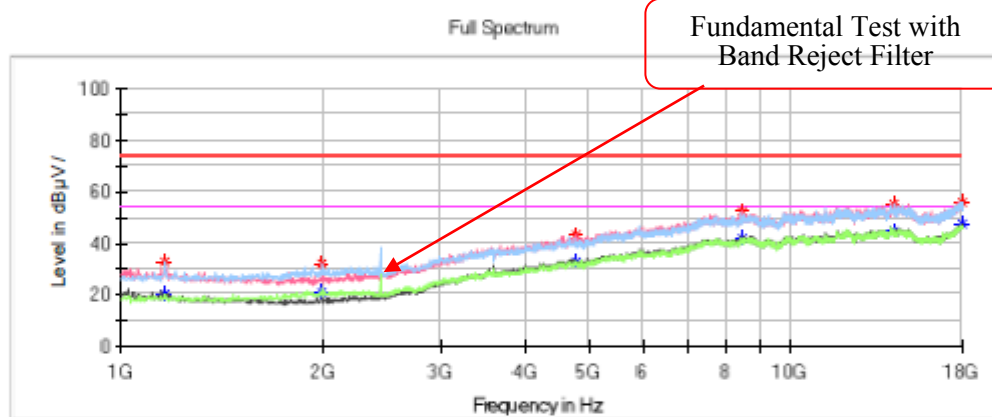
Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_1DH5 mode Low channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

**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)
1159.800000	—	19.15	54.00	34.85	V	-15.5
1159.800000	29.95	—	74.00	44.05	V	-15.5
3941.000000	—	29.23	54.00	24.77	V	-5.1
3941.000000	39.84	—	74.00	34.16	V	-5.1
7500.800000	51.44	—	74.00	22.56	V	3.3
7500.800000	—	40.57	54.00	13.43	V	3.3
10312.600000	53.23	—	74.00	20.77	V	6.6
10312.600000	—	43.52	54.00	10.48	V	6.6
14147.800000	—	45.54	54.00	8.46	H	10.8
14147.800000	55.29	—	74.00	18.71	H	10.8
17966.000000	—	47.84	54.00	6.16	H	13.6
17966.000000	56.17	—	74.00	17.83	H	13.6

Middle Channel: 2441 MHz**Common Information**

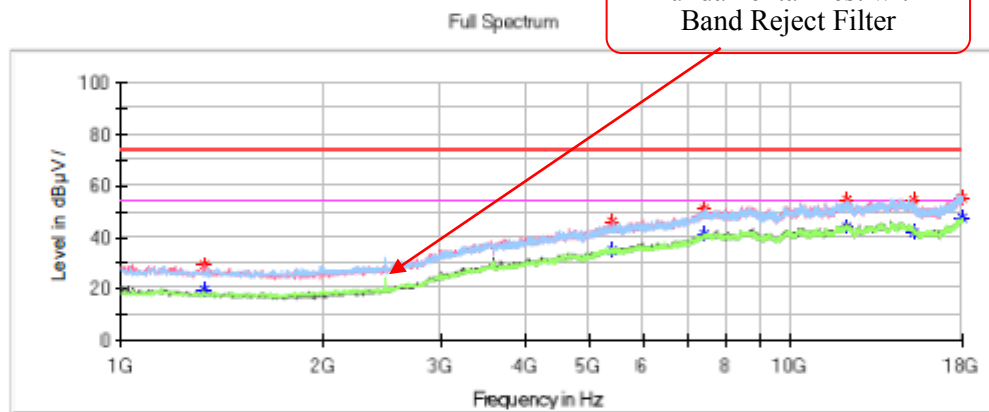
Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_1DH5 mode Middle channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

**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)
1163.200000	32.77	—	74.00	41.23	H	-15.5
1163.200000	—	20.08	54.00	33.92	H	-15.5
1992.800000	—	21.31	54.00	32.69	H	-11.7
1992.800000	32.50	—	74.00	41.50	H	-11.7
4760.400000	43.25	—	74.00	30.75	V	-3.6
4760.400000	—	32.89	54.00	21.11	V	-3.6
8422.200000	52.56	—	74.00	21.44	V	4.5
8422.200000	—	41.66	54.00	12.34	V	4.5
14181.800000	—	44.52	54.00	9.48	H	10.8
14181.800000	55.47	—	74.00	18.53	H	10.8
17969.400000	—	47.48	54.00	6.52	V	13.6
17969.400000	55.94	—	74.00	18.06	V	13.6

High Channel: 2480 MHz**Common Information**

Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_1DH5 mode 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: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

**Critical Freqs**

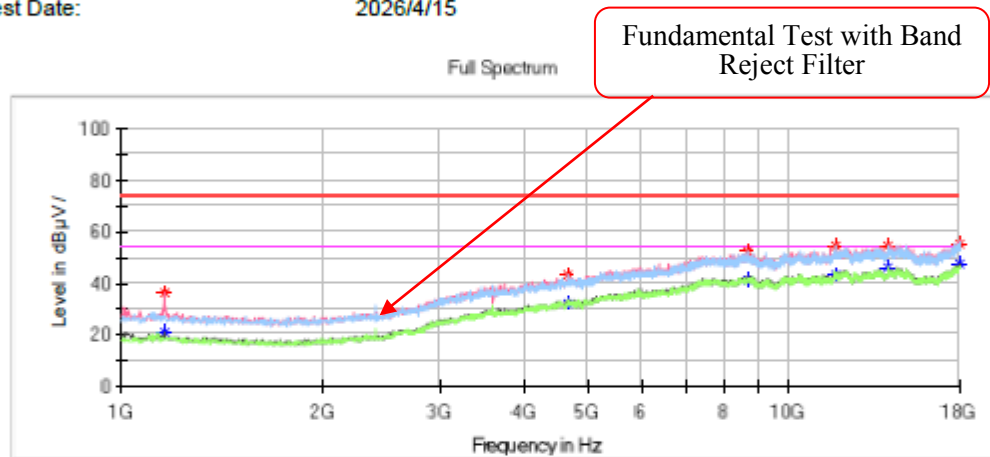
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1326.400000	29.14	—	74.00	44.86	V	-14.8
1326.400000	—	19.92	54.00	34.08	V	-14.8
5420.000000	46.24	—	74.00	27.76	V	-1.8
5420.000000	—	35.15	54.00	18.85	V	-1.8
7409.000000	51.29	—	74.00	22.71	V	3.0
7409.000000	—	41.09	54.00	12.91	V	3.0
12128.200000	54.42	—	74.00	19.58	H	9.0
12128.200000	—	43.98	54.00	10.02	H	9.0
15263.000000	—	42.19	54.00	11.81	V	8.5
15263.000000	54.43	—	74.00	19.57	V	8.5
17993.200000	—	47.38	54.00	6.62	H	13.8
17993.200000	55.30	—	74.00	18.70	H	13.8

$\pi/4$ -DQPSK:

Low Channel: 2402 MHz

Common Information

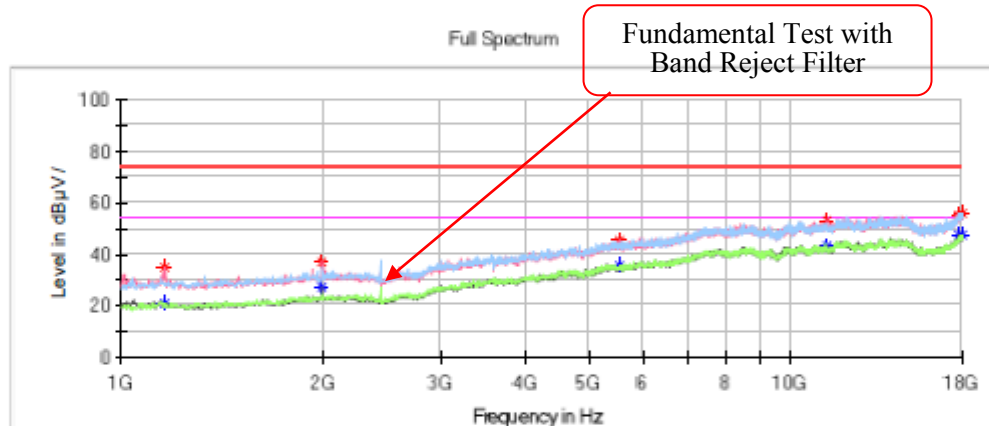
Project No.:	RKSA260302001
EUT Model:	Mercury
Test Mode:	Transmitting in BT_2DH5 mode Low channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	18.3°C
Humidity:	50%
Atmospheric Pressure:	101.6kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/4/15

**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)
1159.800000	—	20.77	54.00	33.23	V	-15.5
1159.800000	36.62	—	74.00	37.38	V	-15.5
4648.200000	43.20	—	74.00	30.80	H	-3.9
4648.200000	—	32.28	54.00	21.72	H	-3.9
8633.000000	52.58	—	74.00	21.42	H	4.8
8633.000000	—	41.33	54.00	12.67	H	4.8
11730.400000	54.51	—	74.00	19.49	H	8.6
11730.400000	—	43.43	54.00	10.57	V	8.6
14076.400000	—	45.94	54.00	8.06	V	10.7
14076.400000	54.89	—	74.00	19.11	V	10.7
17962.600000	55.18	—	74.00	18.82	V	13.6
17962.600000	—	47.70	54.00	6.30	V	13.6

Middle Channel: 2441 MHz**Common Information**

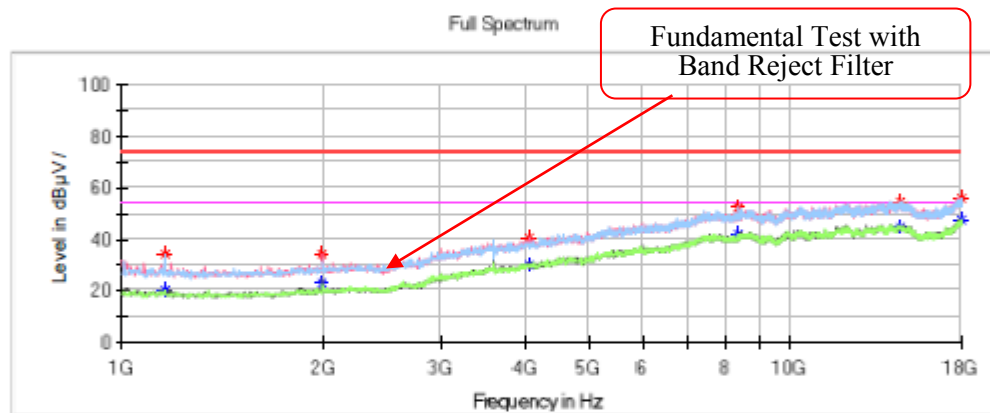
Project No.:	RKSA260302001
EUT Model:	Mercury
Test Mode:	Transmitting in BT_2DH5 mode Middle channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	18.3℃
Humidity:	50%
Atmospheric Pressure:	101.6kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/4/15

**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)
1163.200000	—	21.30	54.00	32.70	H	-15.5
1163.200000	34.96	—	74.00	39.04	H	-15.5
1992.800000	—	27.52	54.00	26.48	V	-11.7
1992.800000	37.25	—	74.00	36.75	V	-11.7
5556.000000	—	35.35	54.00	18.65	V	-1.5
5556.000000	45.68	—	74.00	28.32	V	-1.5
11281.600000	—	43.10	54.00	10.90	V	7.5
11281.600000	53.02	—	74.00	20.98	V	7.5
17823.200000	55.46	—	74.00	18.54	V	12.8
17823.200000	—	47.51	54.00	6.49	V	12.8
17945.600000	55.61	—	74.00	18.39	H	13.5
17945.600000	—	47.46	54.00	6.54	H	13.5

High Channel: 2480 MHz**Common Information**

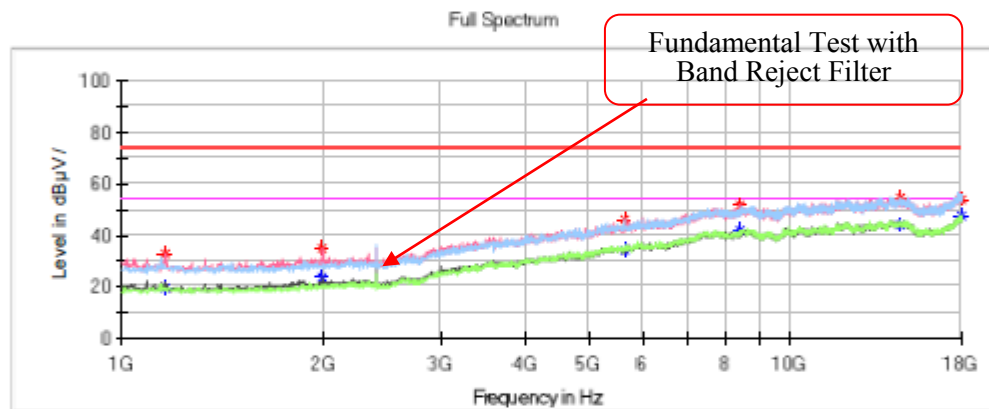
Project No.:	RKSA260302001
EUT Model:	Mercury
Test Mode:	Transmitting in BT_2DH5 mode High channel
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	18.3℃
Humidity:	50%
Atmospheric Pressure:	101.6kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/4/15

**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)
1159.800000	—	19.94	54.00	34.06	H	-15.5
1159.800000	34.48	—	74.00	39.52	H	-15.5
1992.800000	—	23.13	54.00	30.87	V	-11.7
1992.800000	34.15	—	74.00	39.85	V	-11.7
4060.000000	—	30.40	54.00	23.60	V	-4.9
4060.000000	40.84	—	74.00	33.16	V	-4.9
8320.200000	—	41.65	54.00	12.35	H	4.3
8320.200000	52.29	—	74.00	21.71	H	4.3
14549.000000	—	44.62	54.00	9.38	V	10.9
14549.000000	54.80	—	74.00	19.20	V	10.9
17993.200000	56.02	—	74.00	17.98	V	13.8
17993.200000	—	47.71	54.00	6.29	V	13.8

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

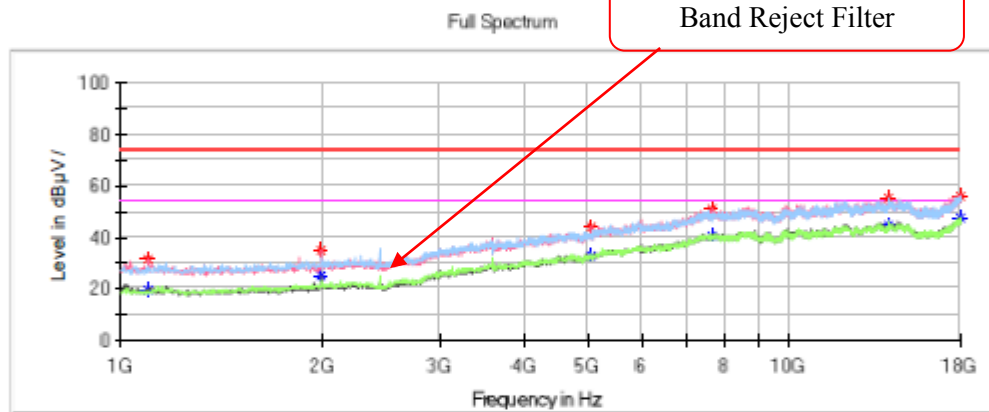
Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_3DH5 mod Low channel
 Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
 Test Equipment: ESU40,3115,PAM-0118P
 Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
 Temperature: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

**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)
1163.200000	—	19.31	54.00	34.69	V	-15.5
1163.200000	32.55	—	74.00	41.45	V	-15.5
1992.800000	—	24.07	54.00	29.93	V	-11.7
1992.800000	34.89	—	74.00	39.11	V	-11.7
5637.600000	—	34.52	54.00	19.48	H	-1.3
5637.600000	46.37	—	74.00	27.63	H	-1.3
8408.600000	—	42.17	54.00	11.83	H	4.5
8408.600000	51.85	—	74.00	22.15	H	4.5
14617.000000	—	43.82	54.00	10.18	H	10.7
14617.000000	54.63	—	74.00	19.37	H	10.7
17986.400000	54.18	—	74.00	19.82	V	13.7
17986.400000	—	47.41	54.00	6.59	V	13.7

Middle Channel: 2441 MHz**Common Information**

Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_3DH5 mode 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: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15



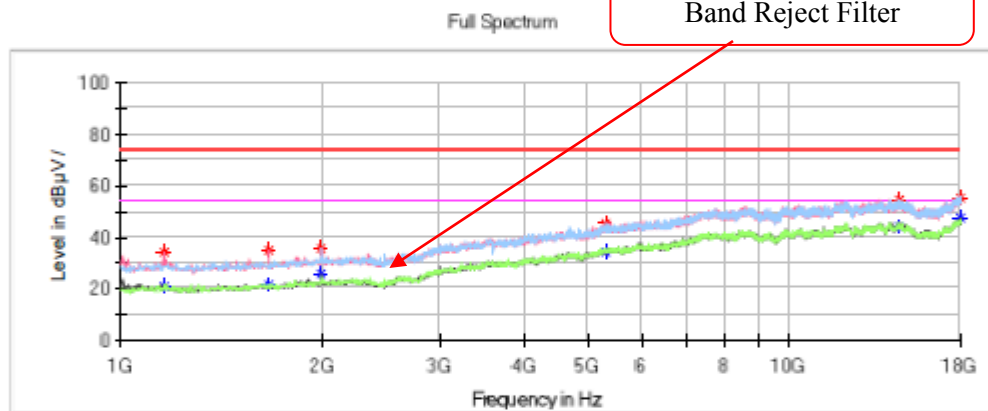
Fundamental Test with
Band Reject Filter

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)
1098.600000	31.63	—	74.00	42.37	V	-15.7
1098.600000	—	19.80	54.00	34.20	V	-15.7
1992.800000	—	25.14	54.00	28.86	V	-11.7
1992.800000	35.13	—	74.00	38.87	V	-11.7
5039.200000	44.00	—	74.00	30.00	V	-2.7
5039.200000	—	32.59	54.00	21.41	V	-2.7
7626.600000	51.33	—	74.00	22.67	V	3.3
7626.600000	—	40.28	54.00	13.72	V	3.3
14035.600000	54.94	—	74.00	19.06	H	10.7
14035.600000	—	44.71	54.00	9.29	H	10.7
17996.600000	—	47.30	54.00	6.70	H	13.8
17996.600000	56.02	—	74.00	17.98	H	13.8

High Channel: 2480 MHz**Common Information**

Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_3DH5 mode 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: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

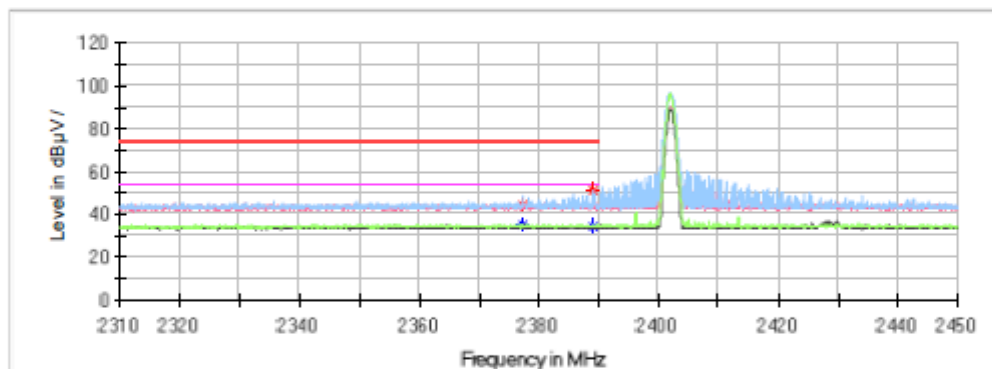
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1159.800000	—	20.89	54.00	33.11	V	-15.5
1159.800000	34.29	—	74.00	39.71	V	-15.5
1663.000000	—	21.42	54.00	32.58	H	-13.3
1663.000000	35.03	—	74.00	38.97	H	-13.3
1996.200000	—	26.01	54.00	27.99	V	-11.7
1996.200000	35.98	—	74.00	38.02	V	-11.7
5304.400000	45.52	—	74.00	28.48	H	-2.0
5304.400000	—	34.47	54.00	19.53	H	-2.0
14583.000000	—	44.33	54.00	9.67	V	10.8
14583.000000	54.72	—	74.00	19.28	V	10.8
17986.400000	55.11	—	74.00	18.89	H	13.7
17986.400000	—	47.39	54.00	6.61	H	13.7

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

Project No.:	RKSA260302001
EUT Model:	Mercury
Test Mode:	Transmitting in BT_1DH5 mode 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:	18.3℃
Humidity:	50%
Atmospheric Pressure:	101.6kPa
Test Engineer:	Destine Hu
Check by:	Bard Liu
Test Date:	2026/4/15

Full Spectrum

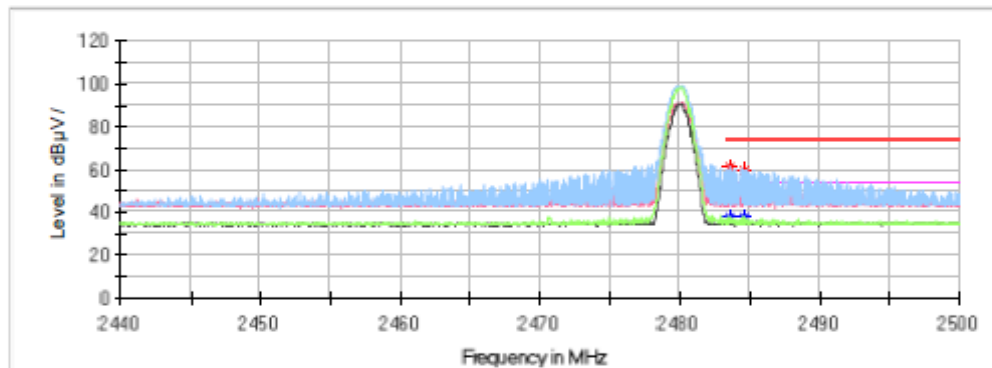
**Critical_Freqs**

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2377.144000	44.68	—	74.00	29.32	H	0.4
2377.144000	—	35.61	54.00	18.39	H	0.4
2388.904000	51.28	—	74.00	22.72	H	0.4
2388.904000	—	34.29	54.00	19.71	H	0.4

Right Side**Common Information**

Project No.: RKSA260302001
EUT Model: Mercury
Test Mode: Transmitting in BT_1DH5 mode 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: 18.3℃
Humidity: 50%
Atmospheric Pressure: 101.6kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/4/15

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)
2483.632000	61.39	—	74.00	12.61	H	0.5
2483.632000	—	37.45	54.00	16.55	H	0.5
2484.592000	59.89	—	74.00	14.11	H	0.5
2484.592000	—	38.12	54.00	15.88	H	0.5

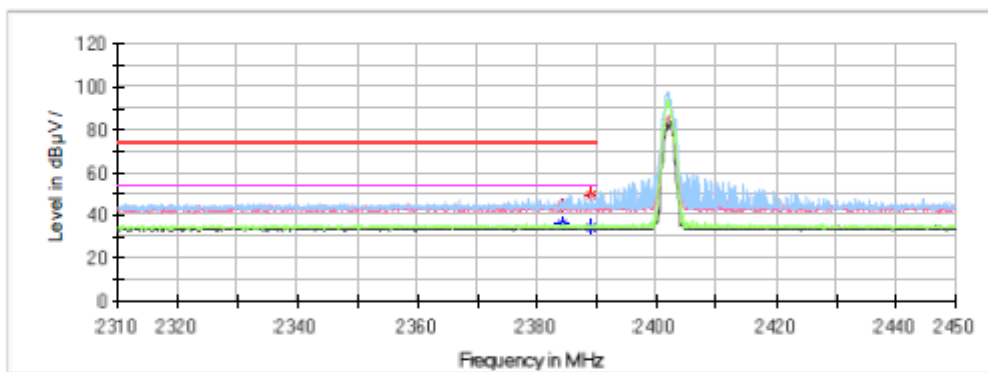
$\pi/4$ -DQPSK:

Left Side

Common Information

Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_2DH5 mode 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: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

Full Spectrum

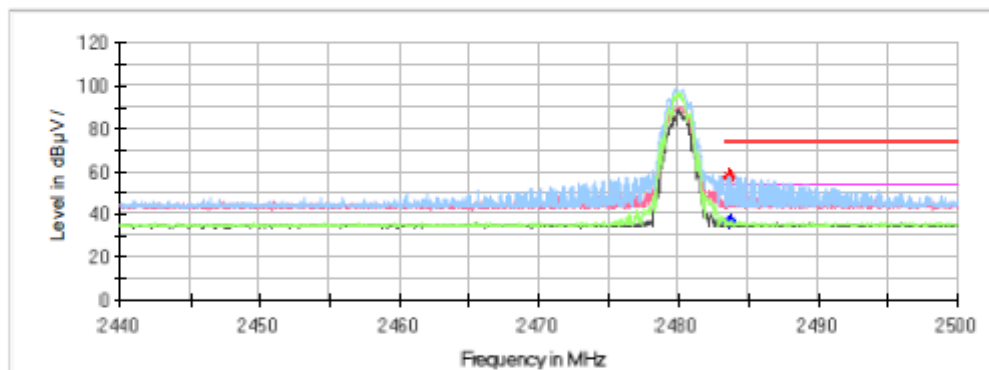
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2384.368000	—	36.11	54.00	17.89	H	0.4
2384.368000	44.11	—	74.00	29.89	H	0.4
2389.184000	—	34.72	54.00	19.28	H	0.4
2389.184000	49.68	—	74.00	24.32	H	0.4

Right Side**Common Information**

Project No.: RKSA260302001
EUT Model: Mercury
Test Mode: Transmitting in BT_2DH5 mode 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: 18.3℃
Humidity: 50%
Atmospheric Pressure: 101.6kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/4/15

Full Spectrum

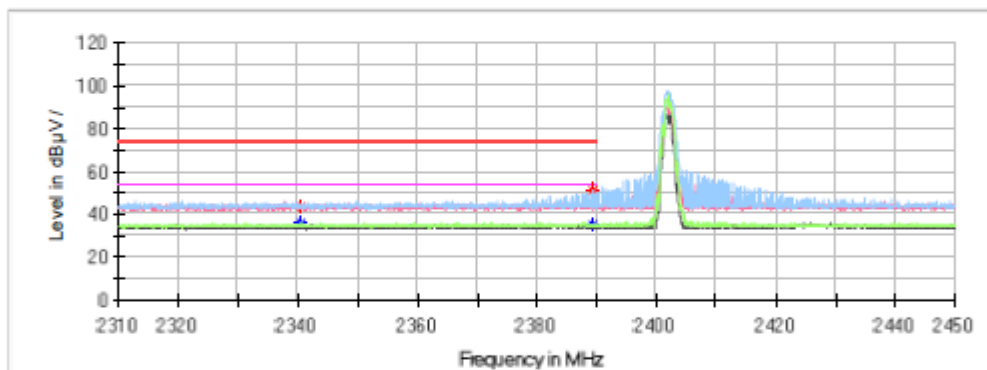
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2483.632000	—	36.11	54.00	17.89	H	0.5
2483.632000	57.59	—	74.00	16.41	H	0.5
2483.728000	—	37.29	54.00	16.71	H	0.5
2483.728000	57.04	—	74.00	16.96	H	0.5

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

Project No.: RKSA260302001
 EUT Model: Mercury
 Test Mode: Transmitting in BT_3DH5 mode 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: 18.3℃
 Humidity: 50%
 Atmospheric Pressure: 101.6kPa
 Test Engineer: Destine Hu
 Check by: Bard Liu
 Test Date: 2026/4/15

Full Spectrum

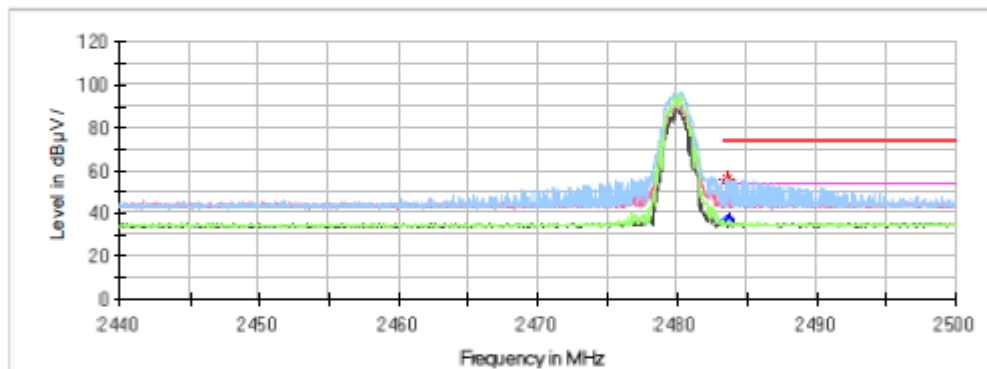
**Critical Freqs**

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2340.464000	43.35	—	74.00	30.65	H	0.3
2340.464000	—	36.33	54.00	17.67	H	0.3
2389.296000	—	35.03	54.00	18.97	H	0.4
2389.296000	50.80	—	74.00	23.20	H	0.4

Right Side**Common Information**

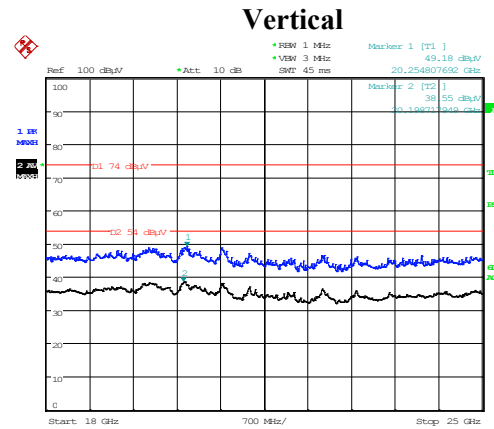
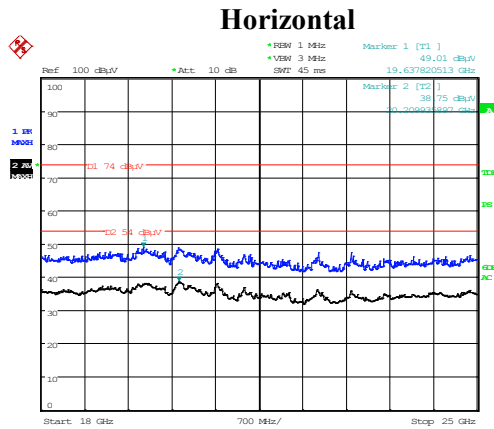
Project No.: RKSA260302001
EUT Model: Mercury
Test Mode: Transmitting in BT_3DH5 mode High channel
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment: ESU40,3115,PAM-0118P
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature: 18.3℃
Humidity: 50%
Atmospheric Pressure: 101.6kPa
Test Engineer: Destine Hu
Check by: Bard Liu
Test Date: 2026/4/15

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)
2483.584000	—	35.72	54.00	18.28	H	0.5
2483.584000	56.10	—	74.00	17.90	H	0.5
2483.680000	—	37.08	54.00	16.92	H	0.5
2483.680000	53.70	—	74.00	20.30	H	0.5

18 GHz - 25 GHz (Transmitting in GFSK Mode high channel (maximum output power mode):



Project No.: RKSA260302001
 Date: 9.MAY.2026 16:16:53

Tester: Hugh Wu

Project No.: RKSA260302001
 Date: 9.MAY.2026 16:49:02

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)
20.20	---	38.55	54	15.45	V	12.46
20.25	49.18	---	74	24.82	V	12.51
20.21	---	38.75	54	15.25	H	12.47
19.64	49.01	---	74	24.99	H	11.96

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

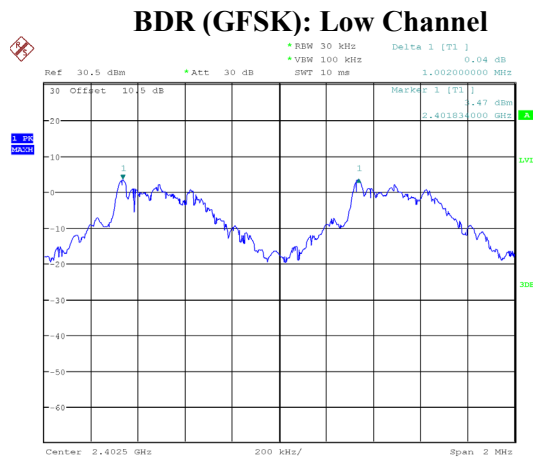
CHANNEL SEPARATION TEST**Environmental Conditions & Test Information**

Test Date:	2026-04-15
Temperature:	21.2℃
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

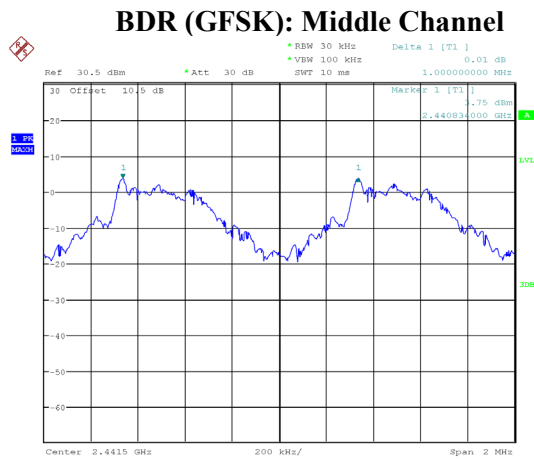
EUT operation mode: Transmitting

Mode	Channel	Result (MHz)	Limit (MHz)	Result
GFSK	Low	1.002	0.862	Pass
	Middle	1.000	0.862	Pass
	High	1.004	0.862	Pass

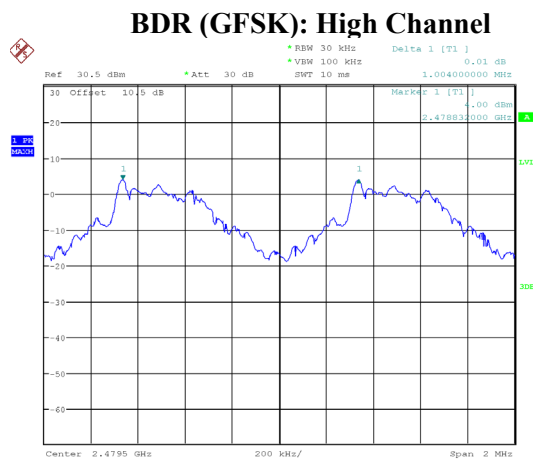
Note: Only GFSK mode result is reported since EDR($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan.
Limit = 20 dB bandwidth*2/3



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:16:40



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:24:11



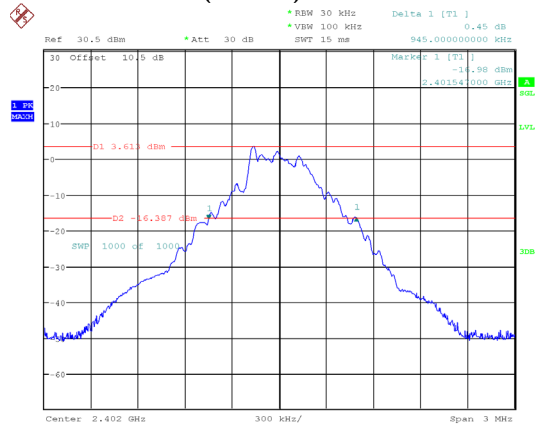
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:34:52

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

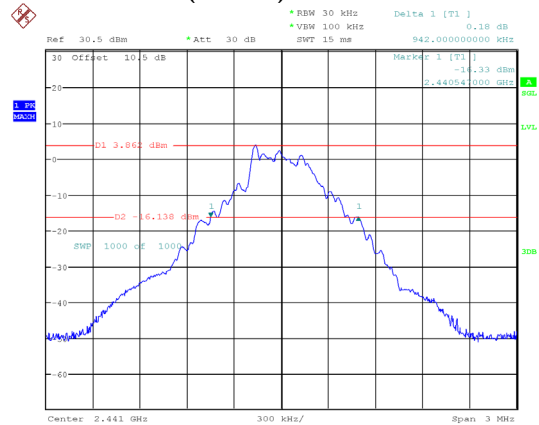
Test Date:	2026-04-15
Temperature:	21.2°C
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

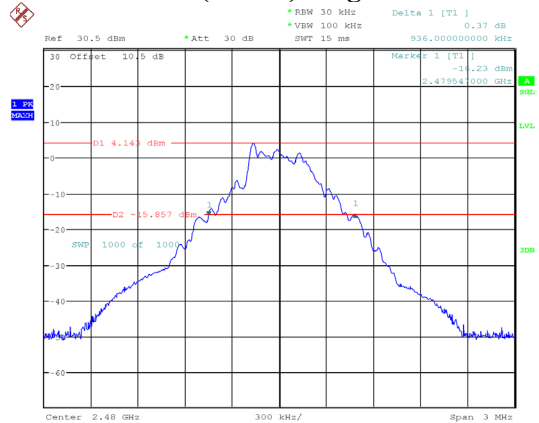
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
BDR (GFSK)	Low	2402	0.945
	Middle	2441	0.942
	High	2480	0.936
EDR ($\pi/4$-DQPSK)	Low	2402	1.287
	Middle	2441	1.290
	High	2480	1.293
EDR (8DPSK)	Low	2402	1.269
	Middle	2441	1.275
	High	2480	1.278

BDR (GFSK): Low Channel

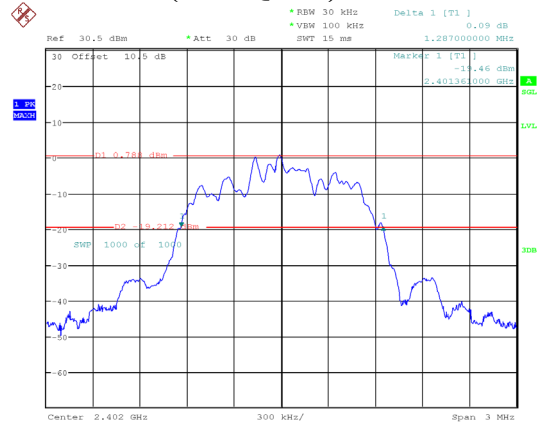
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:02:54

BDR (GFSK): Middle Channel

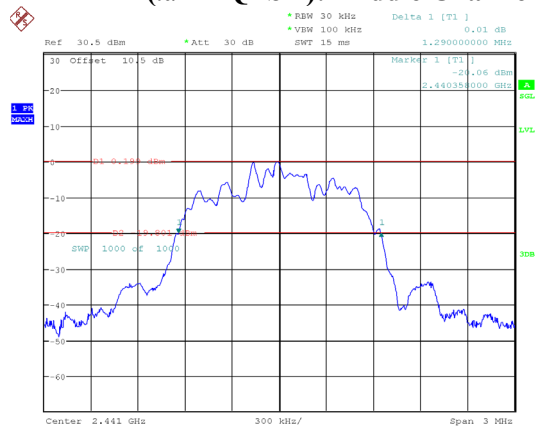
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:16:08

BDR (GFSK): High Channel

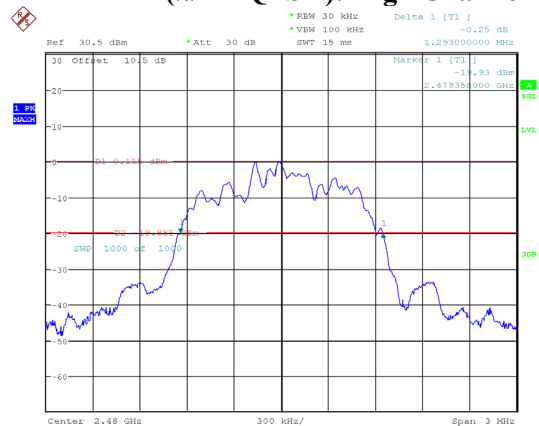
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:28:04

EDR ($\pi/4$ -DQPSK): Low Channel

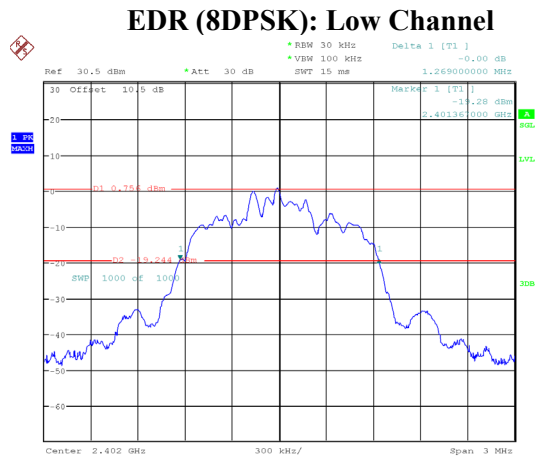
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:43:04

EDR($\pi/4$ -DQPSK): Middle Channel

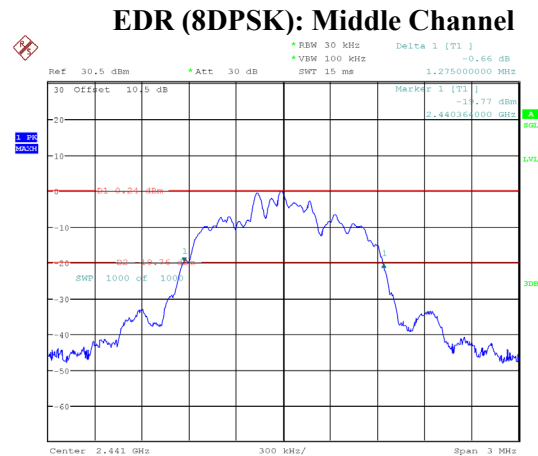
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:53:56

EDR ($\pi/4$ -DQPSK): High Channel

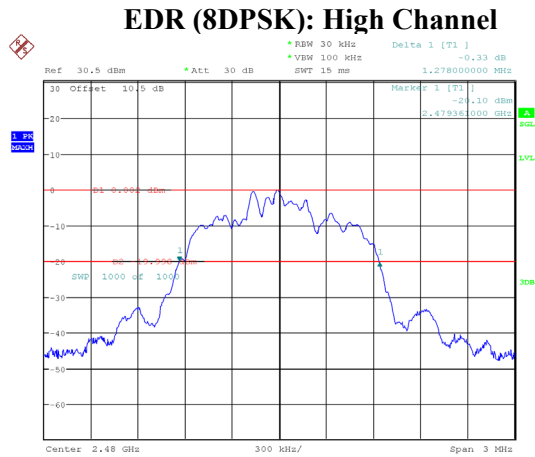
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:04:21



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:18:06



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:29:40



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:38:15

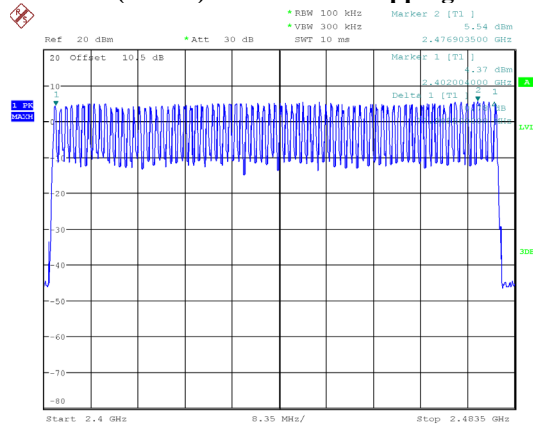
QUANTITY OF HOPPING CHANNEL TEST**Environmental Conditions & Test Information**

Test Date:	2026-04-15
Temperature:	21.2℃
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Hopping

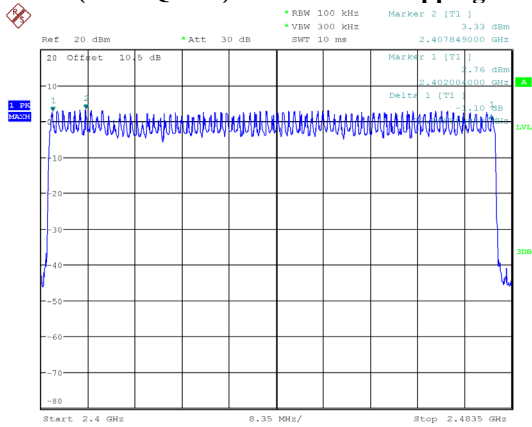
Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)
BDR (GFSK)	2400-2483.5	79	≥15
EDR ($\pi/4$ -DQPSK)	2400-2483.5	79	≥15
EDR (8DPSK)	2400-2483.5	79	≥15

BDR (GFSK): Number of Hopping Channels



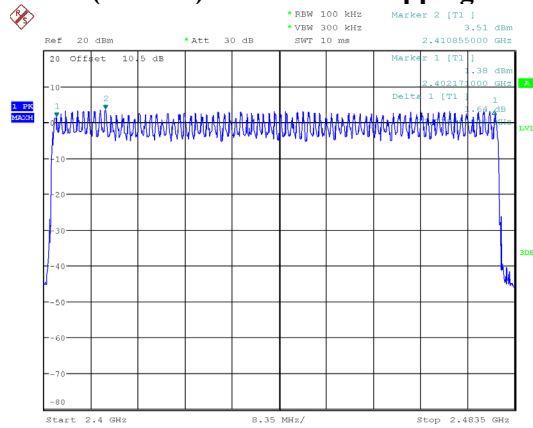
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:07:05

EDR ($\pi/4$ -DQPSK): Number of Hopping Channels



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:11:14

EDR (8DPSK): Number of Hopping Channels



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:15:51

TIME OF OCCUPANCY (DWELL TIME)**Environmental Conditions & Test Information**

Test Date:	2026-04-15 to 2026-05-08
Temperature:	21.2-26℃
Relative Humidity:	50-55 %
ATM Pressure:	100.5-102.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

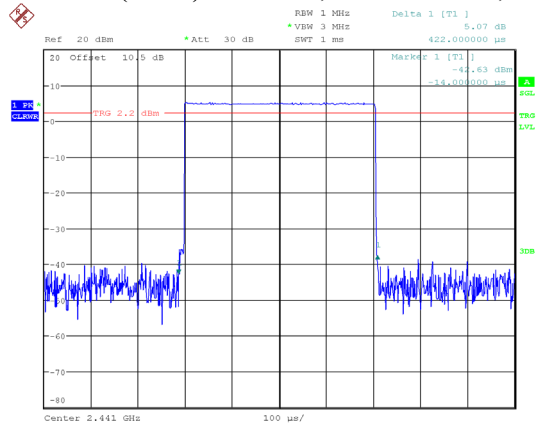
EUT operation mode: Hopping

Mode		Channel	BurstWidth (ms)	TotalHops (Num)	Dwell time (s)	Limit (s)	Result
BDR (GFSK)	DH1	Middle	0.422	320	0.135	≤ 0.4	Pass
	DH3		1.677	160	0.268	≤ 0.4	Pass
	DH5		2.955	120	0.355	≤ 0.4	Pass
EDR ($\pi/4$ - DQPSK)	2DH1		0.411	320	0.132	≤ 0.4	Pass
	2DH3		1.551	170	0.264	≤ 0.4	Pass
	2DH5		2.930	120	0.352	≤ 0.4	Pass
EDR (8DPSK)	3DH1		0.401	310	0.124	≤ 0.4	Pass
	3DH3		1.659	180	0.299	≤ 0.4	Pass
	3DH5		2.930	110	0.322	≤ 0.4	Pass

Note: Dwell time = BurstWidth (Pulse time) * TotalHops

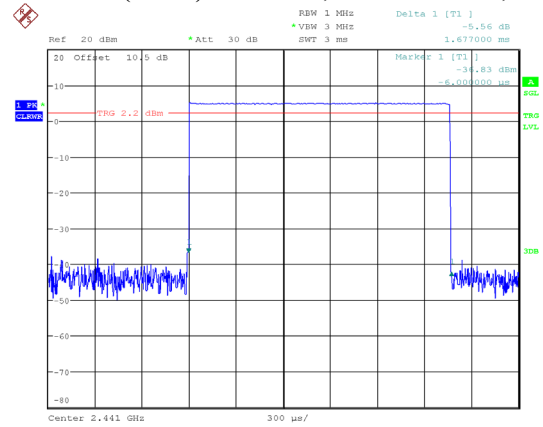
TotalHops (31.6s) = hopping numbers (3.16s)*10

BDR (GFSK): Pulse time, Middle Channel, DH1



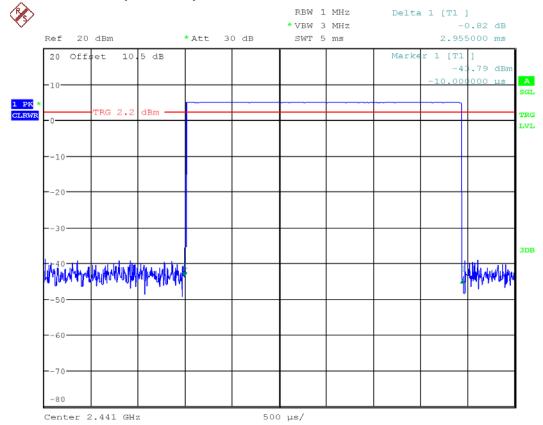
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:21:11

BDR (GFSK): Pulse time, Middle Channel, DH3



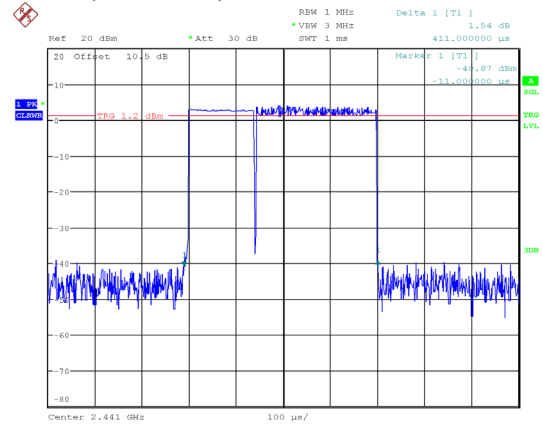
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:31:24

BDR (GFSK): Pulse time, Middle Channel, DH5



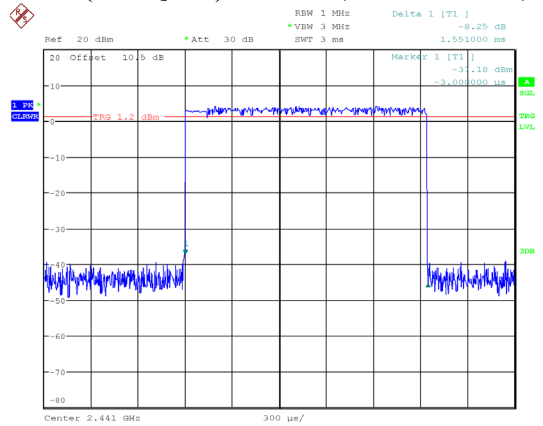
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:33:47

EDR (π/4-DQPSK): Pulse time, Middle Channel, 2DH1



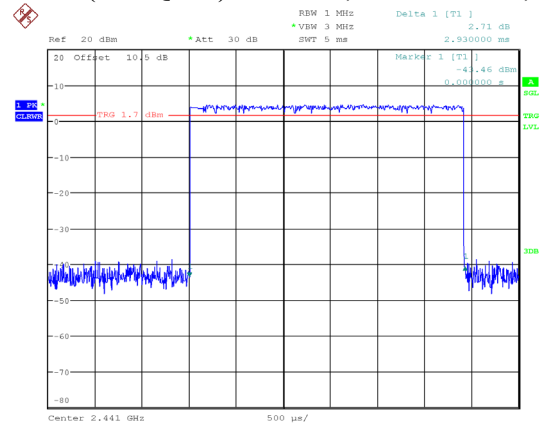
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:35:53

EDR (π/4-DQPSK): Pulse time, Middle Channel, 2DH3

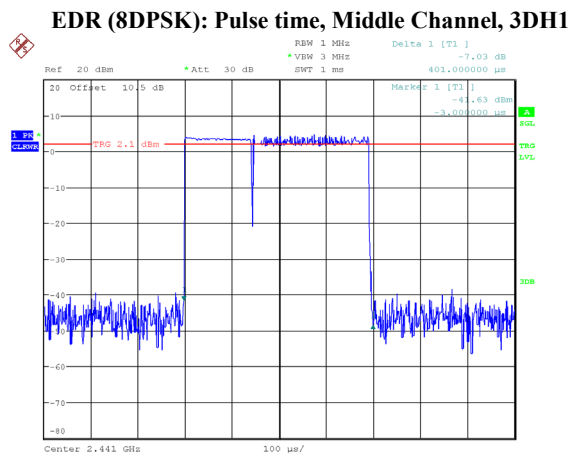


ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:37:59

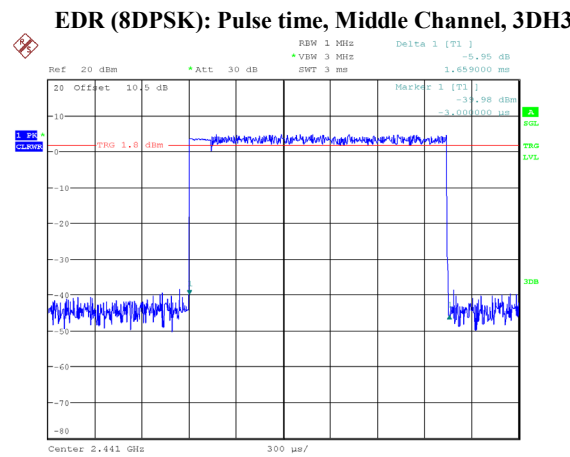
EDR (π/4-DQPSK): Pulse time, Middle Channel, 2DH5



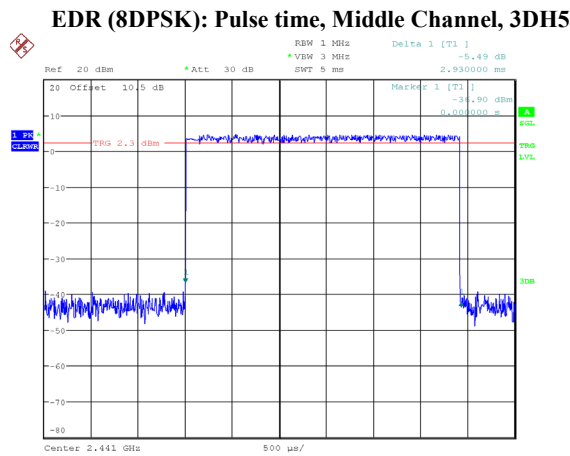
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:27:53



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:45:36

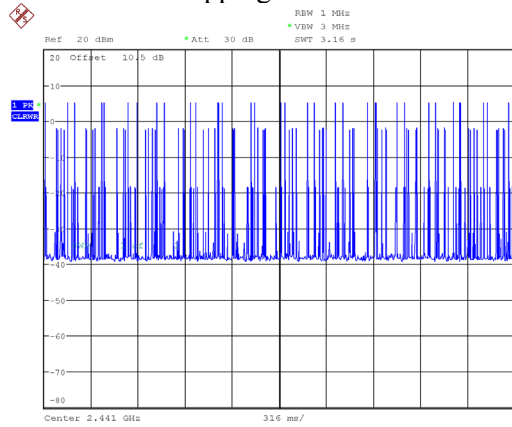


ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:40:11



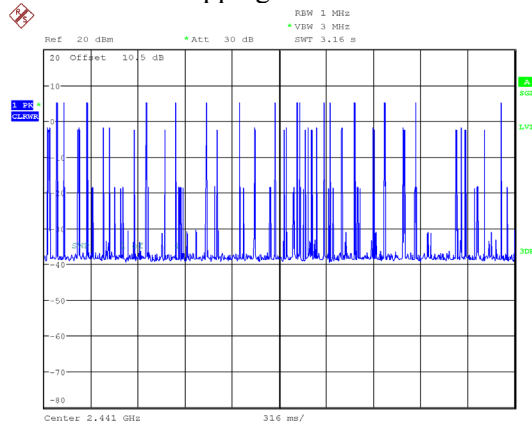
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:48:53

Hopping Numbers-DH1



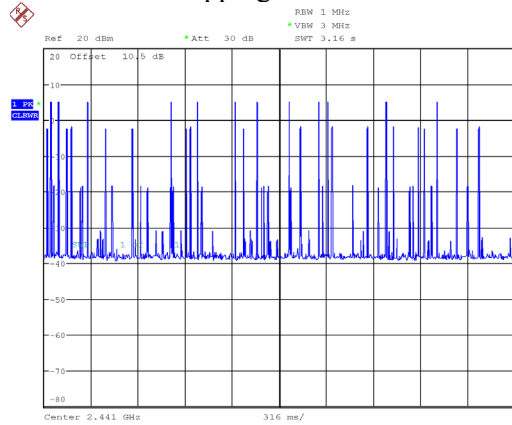
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:20:05

Hopping Numbers-DH3



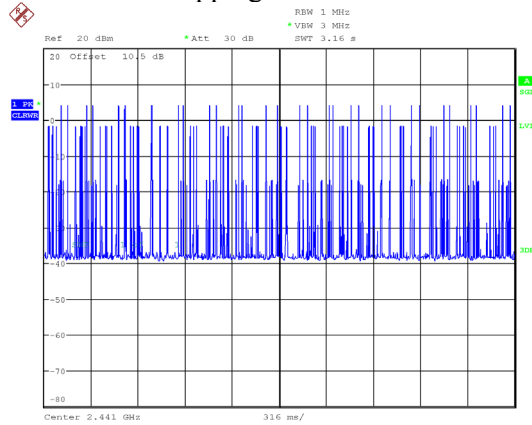
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:30:05

Hopping Numbers-DH5



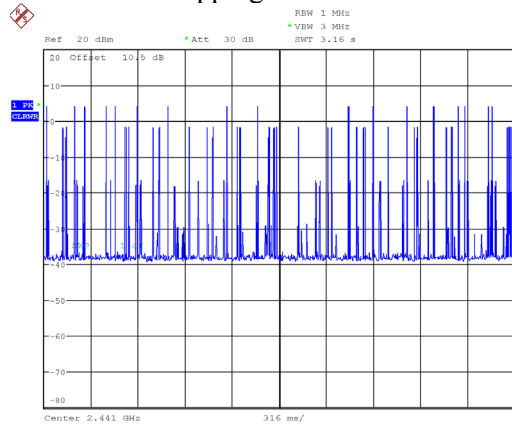
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:32:27

Hopping Numbers-2DH1



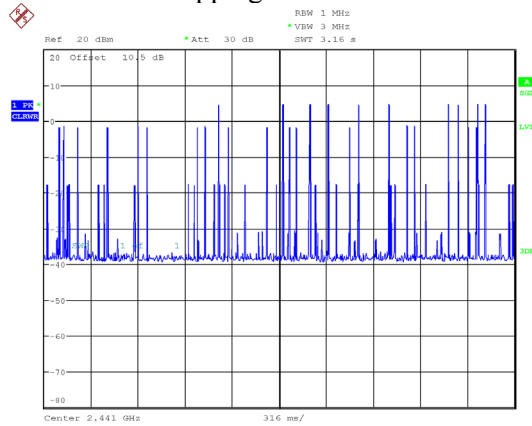
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:34:47

Hopping Numbers-2DH3



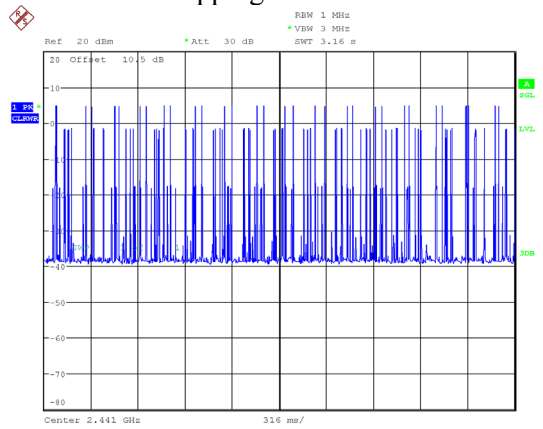
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 17:36:49

Hopping Numbers-2DH5



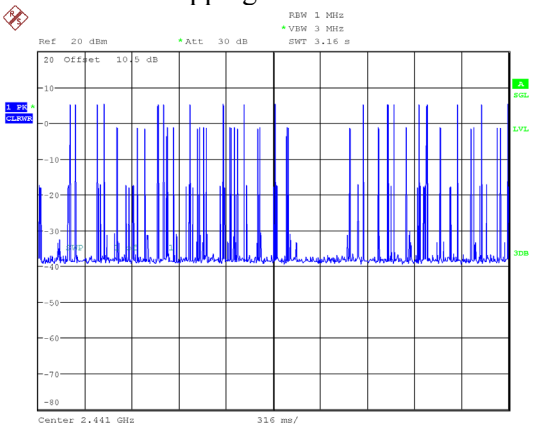
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:26:20

Hopping Numbers-3DH1



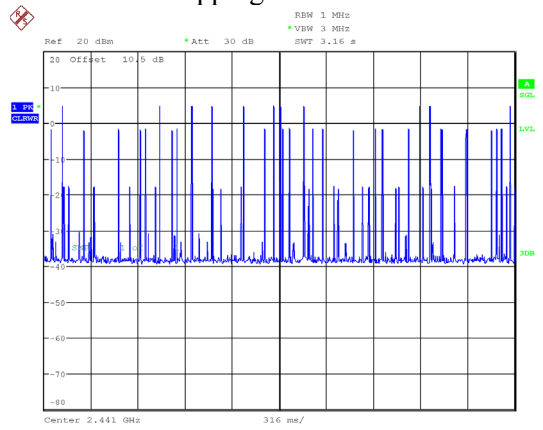
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:44:41

Hopping Numbers-3DH3



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:39:08

Hopping Numbers-3DH5



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 8.MAY.2026 13:47:44

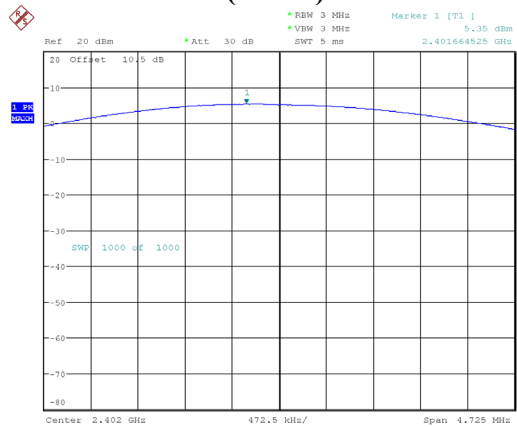
PEAK OUTPUT POWER MEASUREMENT**Environmental Conditions & Test Information**

Test Date:	2026-04-15
Temperature:	21.2℃
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

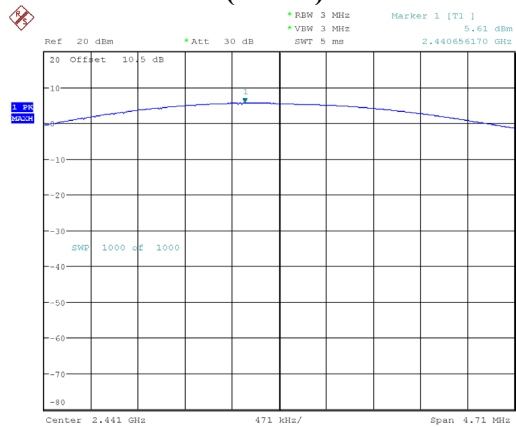
Mode	Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)
GFSK	Low	2402	5.35	21
	Middle	2441	5.61	
	High	2480	5.92	
$\pi/4$ DQPSK	Low	2402	5.30	
	Middle	2441	4.94	
	High	2480	4.98	
8DPSK	Low	2402	5.66	
	Middle	2441	5.31	
	High	2480	5.35	

BDR (GFSK): 2402MHz



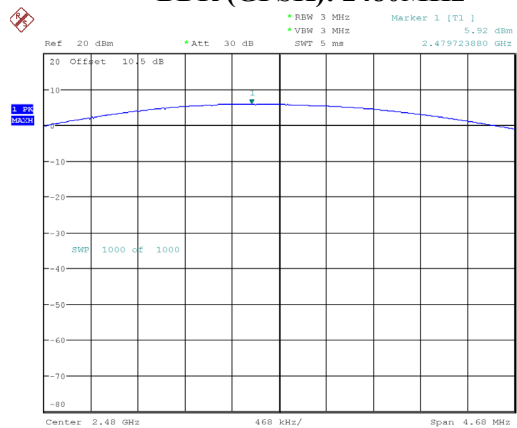
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:04:29

BDR (GFSK): 2441MHz



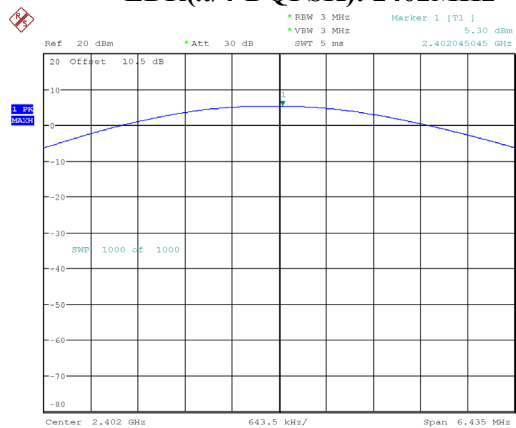
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:17:39

BDR (GFSK): 2480MHz



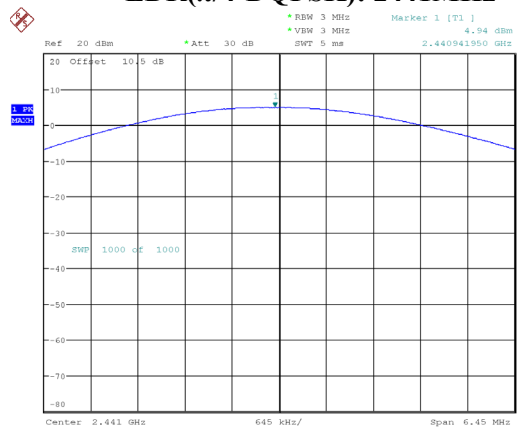
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:29:57

EDR($\pi/4$ -DQPSK): 2402MHz



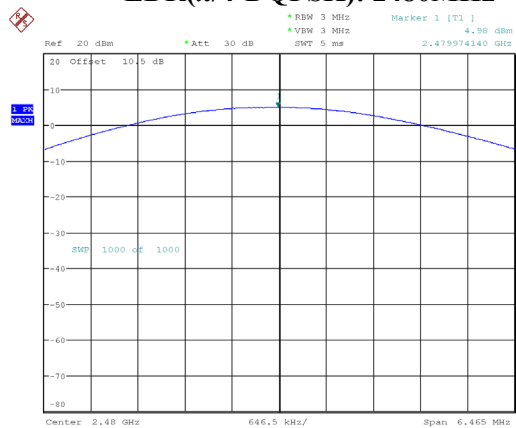
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:44:55

EDR($\pi/4$ -DQPSK): 2441MHz



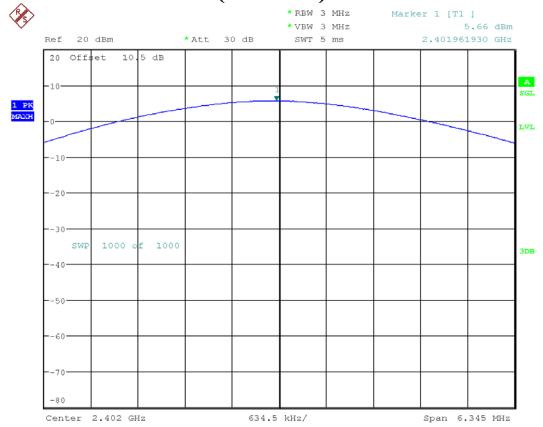
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:55:35

EDR($\pi/4$ -DQPSK): 2480MHz



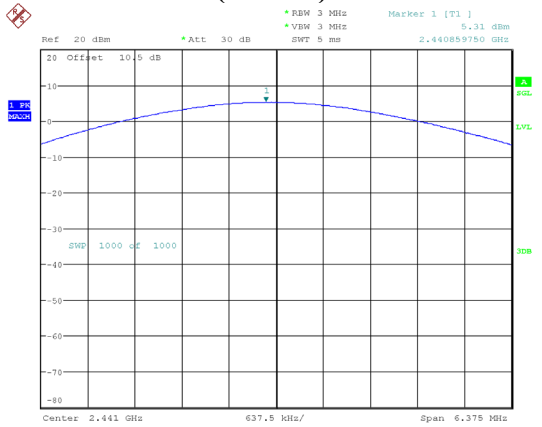
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:06:32

EDR(8DPSK): 2402MHz



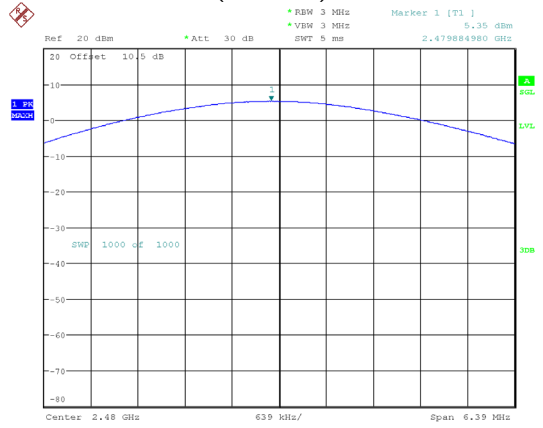
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:19:38

EDR(8DPSK):2441MHz



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:31:32

EDR(8DPSK): 2480MHz



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:40:31

BAND EDGES**Environmental Conditions & Test Information**

Test Date:	2026-04-15
Temperature:	21.2°C
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

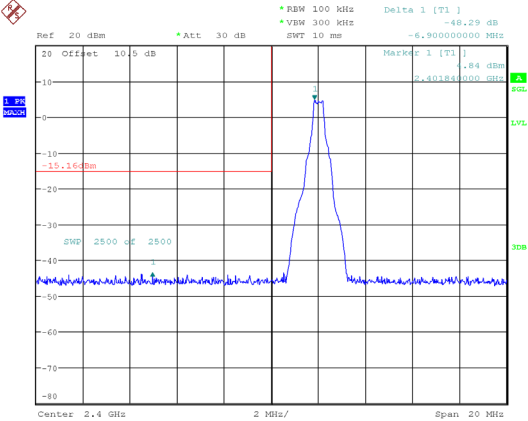
EUT operation mode: Transmitting & Hopping

Test Result: Compliant.

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
GFSK	Low	2402	48.29	20
	High	2480	48.71	
$\pi/4$ DQPSK	Low	2402	44.23	
	High	2480	46.79	
8DPSK	Low	2402	43.62	
	High	2480	46.37	
GFSK (Hopping)	Low	2402	34.18	
	High	2480	49.07	
$\pi/4$ DQPSK (Hopping)	Low	2402	46.98	
	High	2480	47.01	
8DPSK (Hopping)	Low	2402	45.09	
	High	2480	46.78	

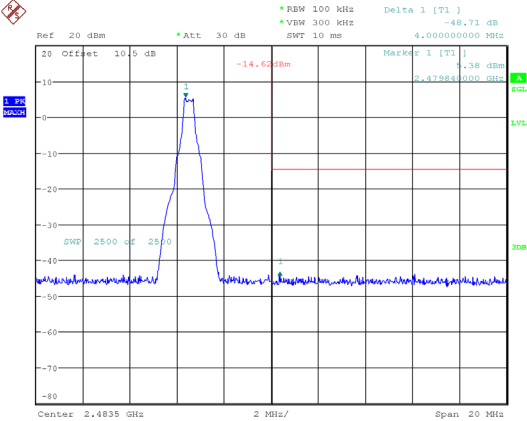
Band Edge

BDR (GFSK): Left Side



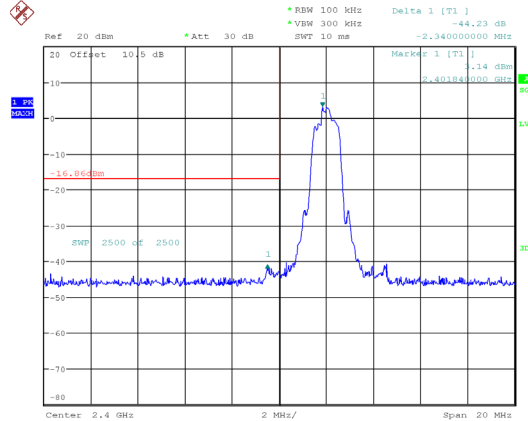
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:06:44

BDR (GFSK): Right Side



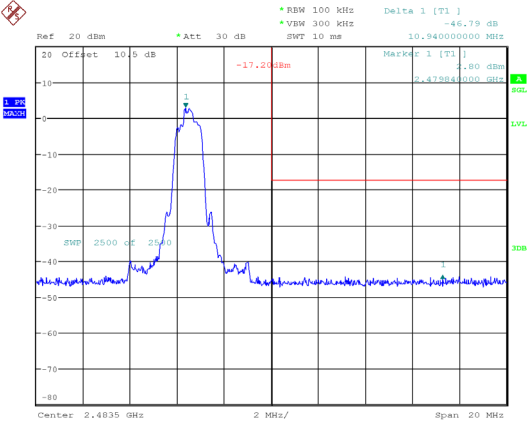
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:32:11

EDR ($\pi/4$ -DQPSK): Left Side



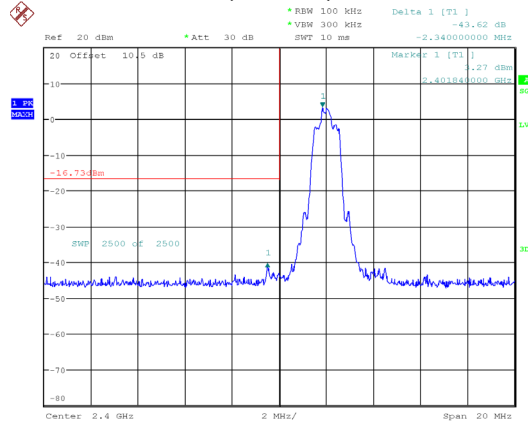
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 14:47:09

EDR ($\pi/4$ -DQPSK): Right Side



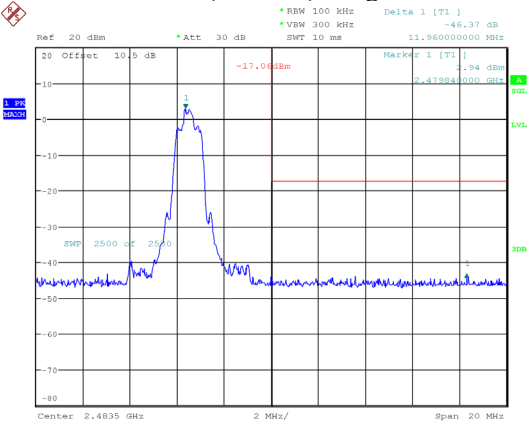
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:08:47

EDR (8DPSK): Left Side

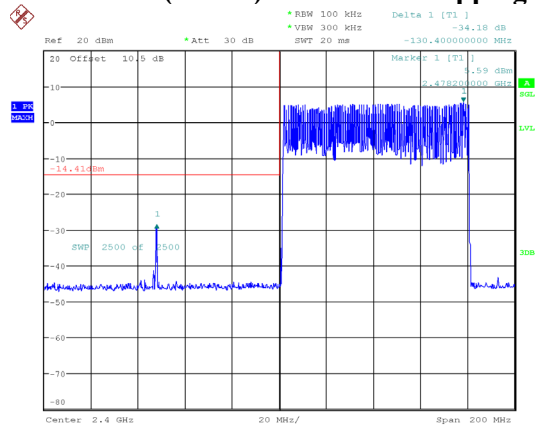


ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:21:52

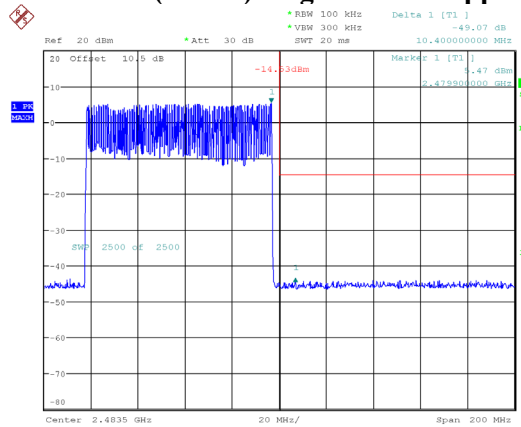
EDR (8DPSK): Right Side



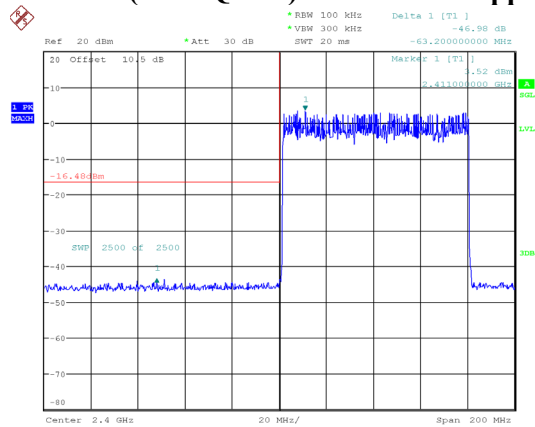
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:42:46

BDR (GFSK): Left Side - Hopping

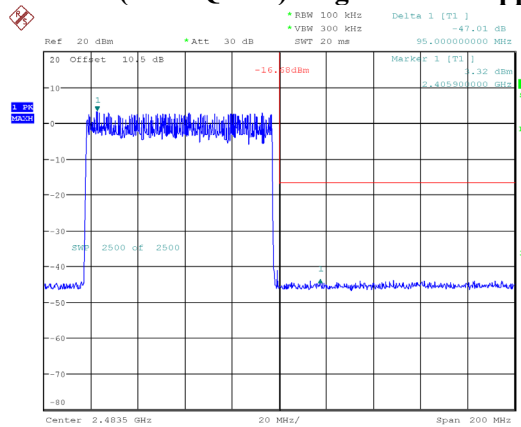
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:55:32

BDR (GFSK): Right Side - Hopping

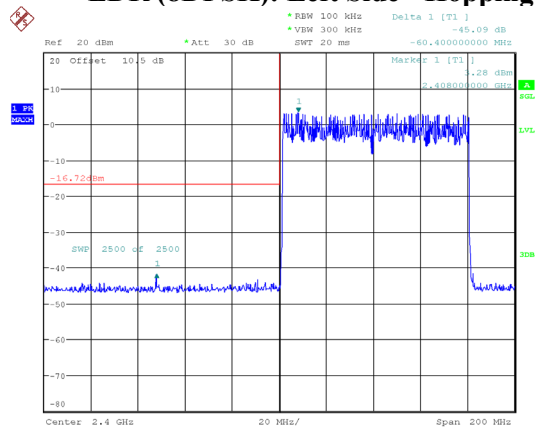
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:57:41

EDR ($\pi/4$ -DQPSK): Left Side - Hopping

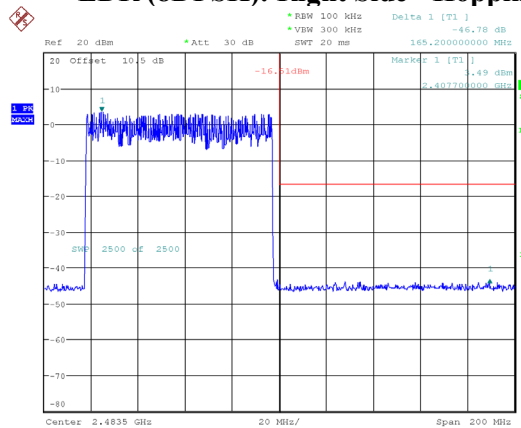
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:00:28

EDR ($\pi/4$ -DQPSK): Right Side - Hopping

ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:02:47

EDR (8DPSK): Left Side - Hopping

ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:05:44

EDR (8DPSK): Right Side - Hopping

ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 16:07:53

CONDUCTED SPURIOUS EMISSION**Environmental Conditions & Test Information**

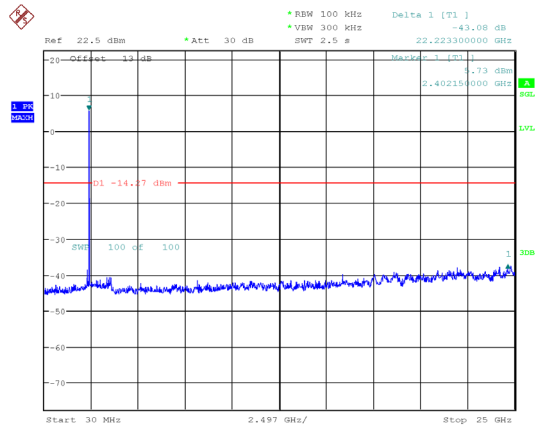
Test Date:	2026-04-15
Temperature:	21.2℃
Relative Humidity:	50 %
ATM Pressure:	100.5 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

Mode	Channel	Result (dB)	Limit (dB)
GFSK	Low	45.01	20.00
	Middle	44.99	20.00
	High	45.52	20.00
$\pi/4$ DQPSK	Low	43.70	20.00
	Middle	41.00	20.00
	High	43.13	20.00
8DPSK	Low	43.08	20.00
	Middle	43.11	20.00
	High	42.71	20.00

GFSK_Low

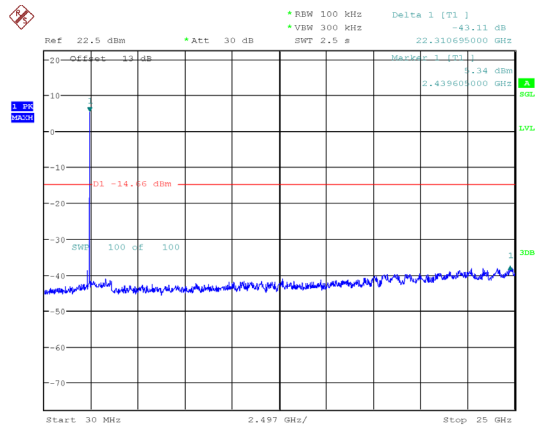


8DPSK_Low



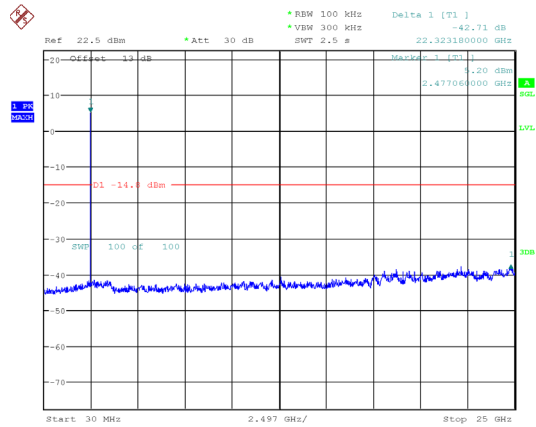
ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:27:32

8DPSK_Middle



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:36:36

8DPSK_High



ProjectNo.:RKSA260302001 Tester:Neil Zhou
Date: 15.APR.2026 15:48:34

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.

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