中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **Innovative Eyewear, Inc.**

Address: 11900 Biscayne Bl, # 630, North Miami Florida United States 33181

FCC ID: **2BBYK-LCD00Z**

Product Name: **Active noise cancelling stereo Bluetooth headphone**

Standard(s): **47 CFR Part 15, Subpart C(15.247)**
ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR231168726-00B**

Date Of Issue: **2024/1/4**

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231168726-00B	Original Report	2024/1/4

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Active noise cancelling stereo Bluetooth headphone
EUT Model:	LCD00Z
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	1.03dBm(Left side mirror legs) 0.40dBm(Right side mirror legs)
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	DC 3.7V from battery or DC 5V from charging contact
Serial Number:	RE: 2DVE-1 RF: 2DVE-2
EUT Received Date:	2023/11/20
EUT Received Status:	Good

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
…	…	…	…
…	…	…	…
…	…	78	2480
39	2441	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chip Antenna	50	2.4~2.5GHz	-3.86dBi(Left side mirror legs)
			-4.56dBi(Right side mirror legs)

The Method of §15.203 Compliance:

☒Antenna was permanently attached to the unit.

☐Antenna use a unique type of connector to attach to the EUT.

☐Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter 1	Unknown	XY-0033B	Input:100-240V~50/60Hz 0.15A Max Output:5.0V 1000mA
Adapter 2	Unknown	XY-0033B	Input:100-240V~50/60Hz 0.15A Max Output:5.0V 1000mA
Power Cable	Unknown	Unknown	0.8m

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
Equipment Modifications:	No
EUT Exercise Software:	BT FCC Tool V2.24

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:

Test Modes	Power Level Setting		
	Lowest	Middle	Highest
GFSK	5	5	5
π/4-DQPSK	5	5	5
8DPSK	5	5	5

Note: The prototype has Left side mirror legs and Riht side mirror legs. The two mirror legs can transmit wireless signals simultaneously

1.2.2 Support Equipment List and Details

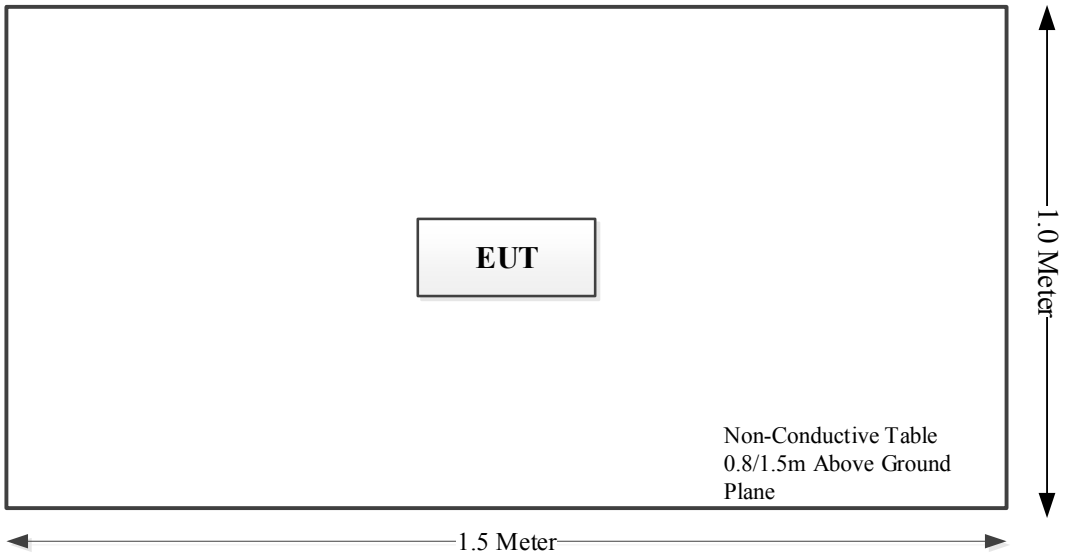
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.2.4 Block Diagram of Test Setup

Spurious Emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB, 30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207(a)	AC Line Conducted Emissions	Not Applicable
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii)	Number Of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii)	Time Of Occupancy (dwell time)	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth Of Frequency Band Edge	Compliant
FCC §15.203	Antenna Requirement	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

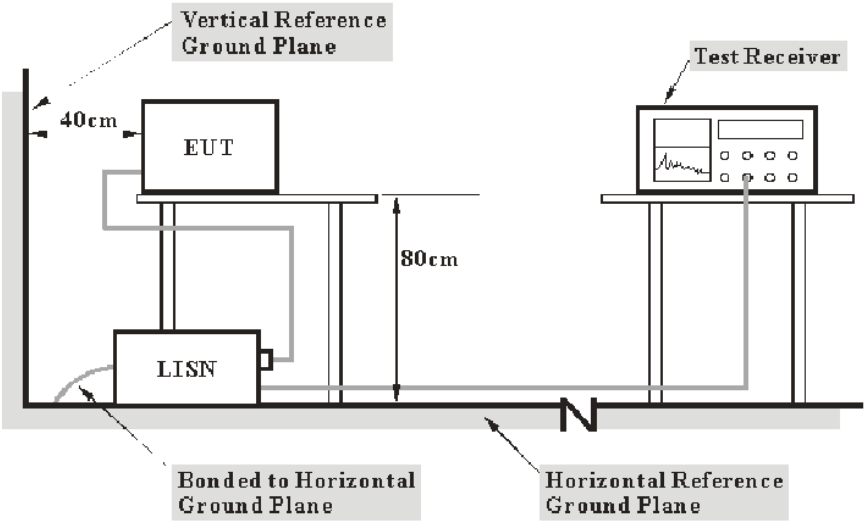
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 µV within the frequency band 535-1705 kHz, as measured using a 50 µH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiated Spurious Emissions

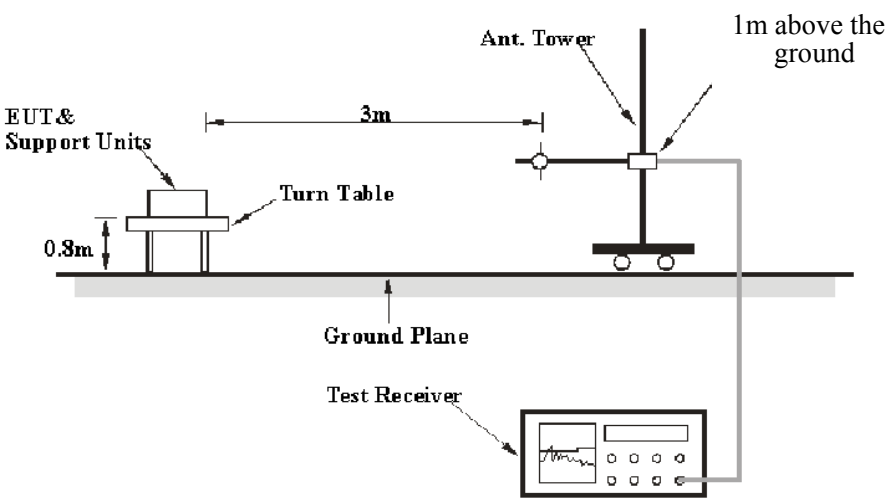
3.2.1 Applicable Standard

FCC §15.247 (d);

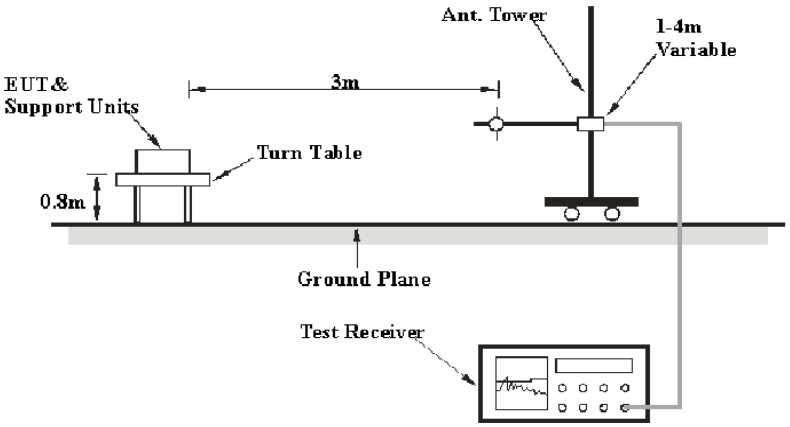
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

3.2.2 EUT Setup

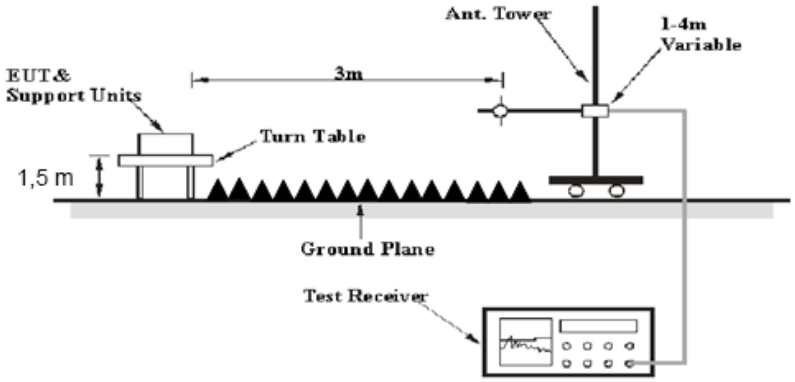
9kHz-30MHz:



30MHz- 1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	200 Hz	QP
150 kHz – 30 MHz	10 kHz	30 kHz	9 kHz	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	AV

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

3.2.4 Test Procedure

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

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

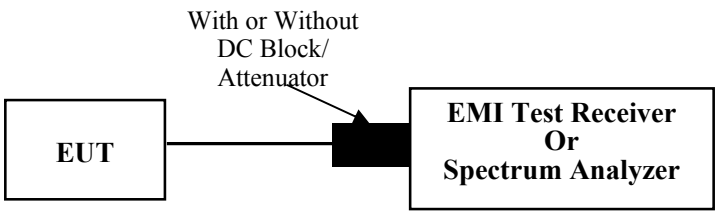
3.3 20 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(1)

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 6.9.2

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2
d) Steps a) through c) might require iteration to adjust within the specified tolerances.
e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "−xx dB down" requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
f) Set detection mode to peak and trace mode to max hold.
g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

h) Determine the "−xx dB down amplitude" using [(reference value) − xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−xx dB down amplitude" determined in step h). If a marker is below this "−xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "−xx dB down
amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

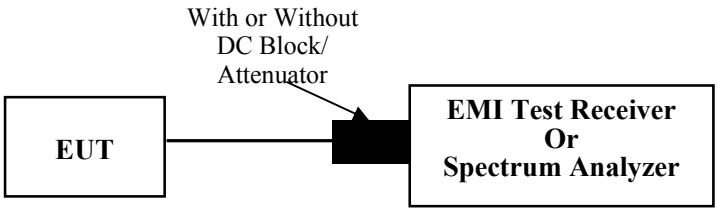
3.4 Channel Separation

3.4.1 Applicable Standard

FCC §15.247 (a)(1)

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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

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

a) Span: Wide enough to capture the peaks of two adjacent channels.
b) 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.
c) Video (or average) bandwidth (VBW) ≥ RBW.
d) Sweep: Auto.
e) Detector function: Peak.
f) Trace: Max hold.
g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

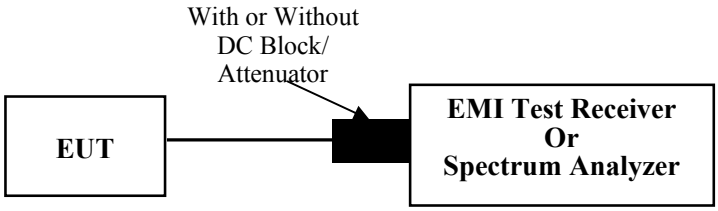
3.5 Number Of Hopping Frequency

3.5.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

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.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 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 ≥ RBW.
d) Sweep: Auto.
e) Detector function: Peak.
f) Trace: Max hold.
g) Allow the trace to stabilize

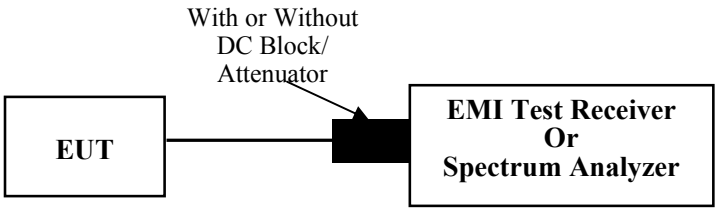
It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

3.6 Time Of Occupancy(Dwell Time)

3.6.1 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.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 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 ≤ channel spacing and where possible RBW should be set >> 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.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:
(Number of hops in the period specified in the requirements) =
(number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.
The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

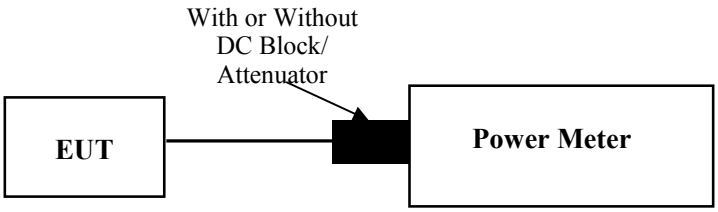
3.7 Maximum Conducted Output Power

3.7.1 Applicable Standard

FCC §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. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

3.7.2 EUT Setup



3.7.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation, Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer. The hopping shall be disabled for this test:

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 ≥ 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—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

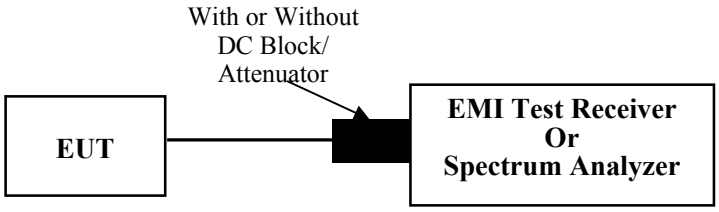
3.8 100 kHz Bandwidth Of Frequency Band Edge

3.8.1 Applicable Standard

FCC §15.247 (d);

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)).

3.8.2 EUT Setup



3.8.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.6

For band-edge measurements, use the band-edge procedure in 6.10. Band-edge measurements shall be tested both on single channels, and with the EUT hopping.

a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

3.9 Antenna Requirement

3.9.1 Applicable Standard

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Not Applicable, the device was powered by battery when operating.

4.2 Radiated Spurious Emissions

Serial Number:	2DVE-1	Test Date:	2023/12/27~2023/12/28
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, coco Tian	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.5~25	Relative Humidity: (%)	45~57	ATM Pressure: (kPa)	101.6~101.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
High					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	2400-2483.5MHz	OE01902424	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5
Audix	Test Software	E3	201021 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Please refer to the below table and plots.

Note: Note: The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

0.009MHz-30MHz false emission is more than 20dB below the limit value. No test results were recorded.

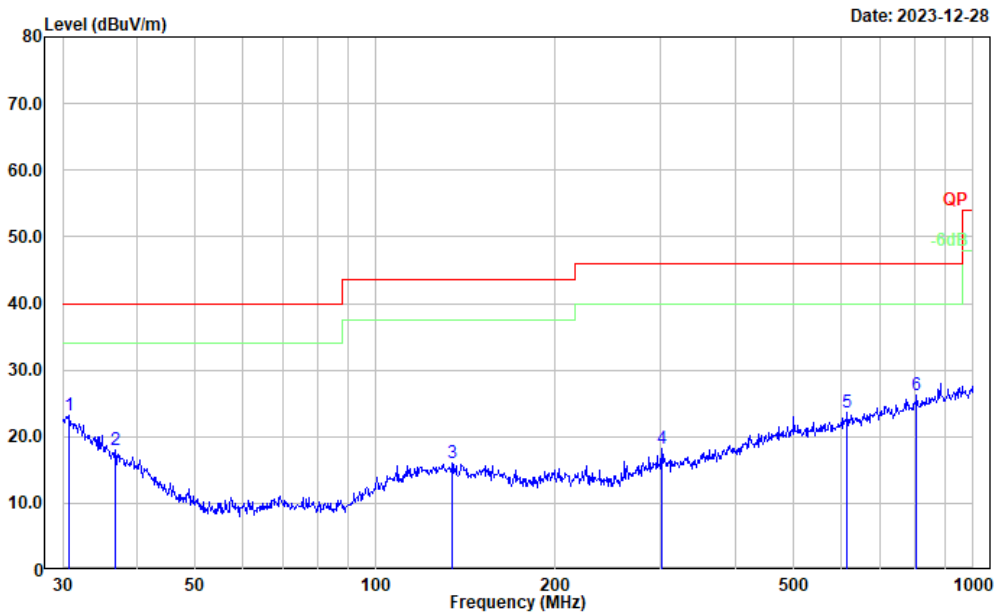
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:X

Provides BT BDR mode (8DPSK) test results at 30MHz-1GHz (highest power for Conducted Output Power).

Radiation Spurious Emissions from 1 to 25GHz provides test results and test plots(Only the test plot with the smallest harmonic margin is provided) for sideband and harmonics of the X-axis of the Left side mirror legs and Right side mirror legs mirror legs.

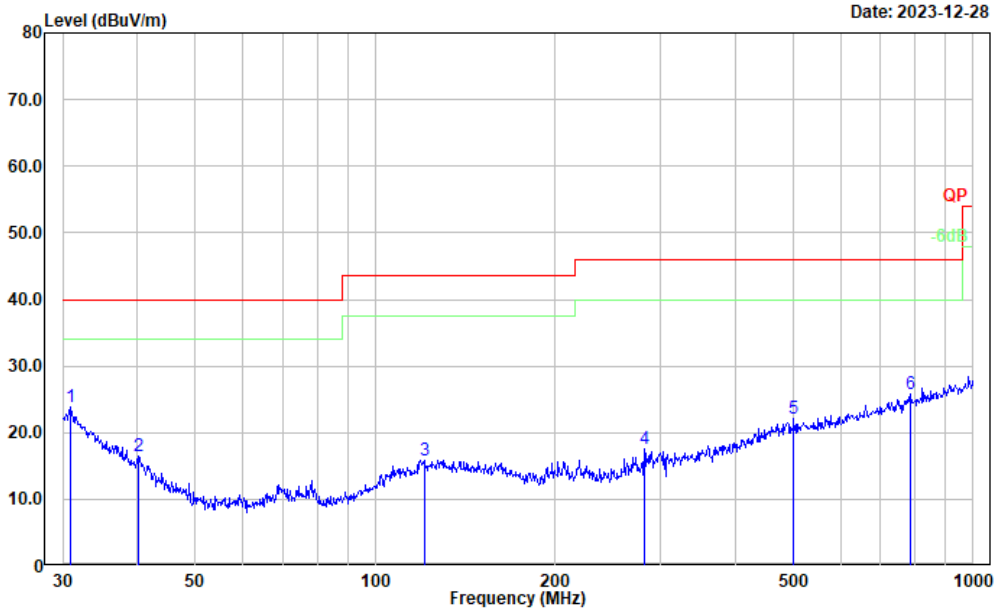
1) 30MHz-1GHz
Left orbit:
BDR Mode(8DPSK)-Low channel

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.745	27.92	-4.69	23.23	40.00	16.77	Peak
2	36.766	27.20	-9.28	17.92	40.00	22.08	Peak
3	134.559	27.96	-11.81	16.15	43.50	27.35	Peak
4	301.422	29.18	-11.03	18.15	46.00	27.85	Peak
5	616.372	28.59	-5.02	23.57	46.00	22.43	Peak
6	804.603	28.52	-2.37	26.15	46.00	19.85	Peak

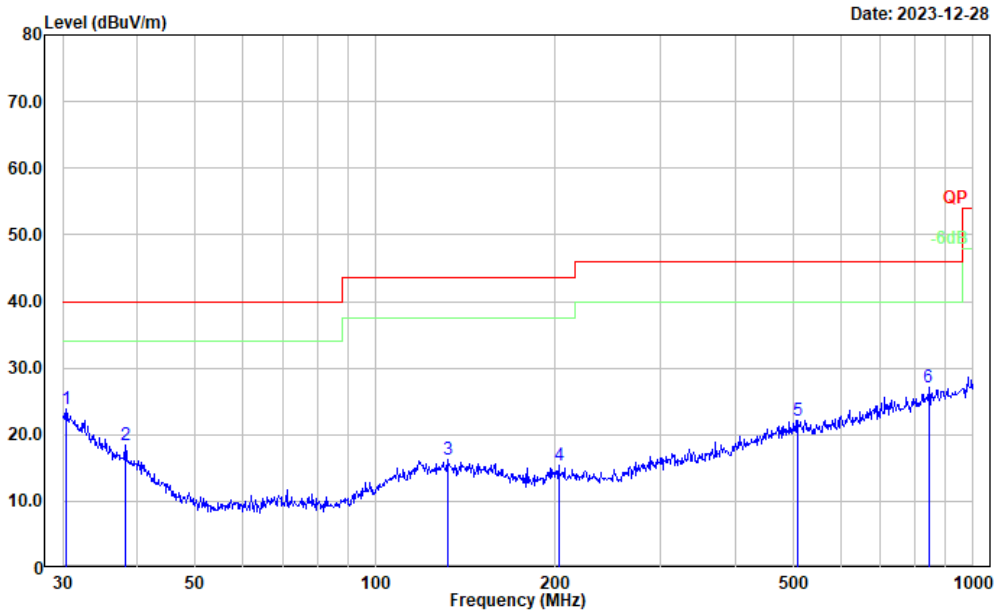
Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.853	28.66	-4.78	23.88	40.00	16.12	Peak
2	40.135	28.25	-11.80	16.45	40.00	23.55	Peak
3	120.699	27.69	-11.80	15.89	43.50	27.61	Peak
4	281.995	29.42	-11.90	17.52	46.00	28.48	Peak
5	501.179	28.52	-6.33	22.19	46.00	23.81	Peak
6	785.093	28.51	-2.68	25.83	46.00	20.17	Peak

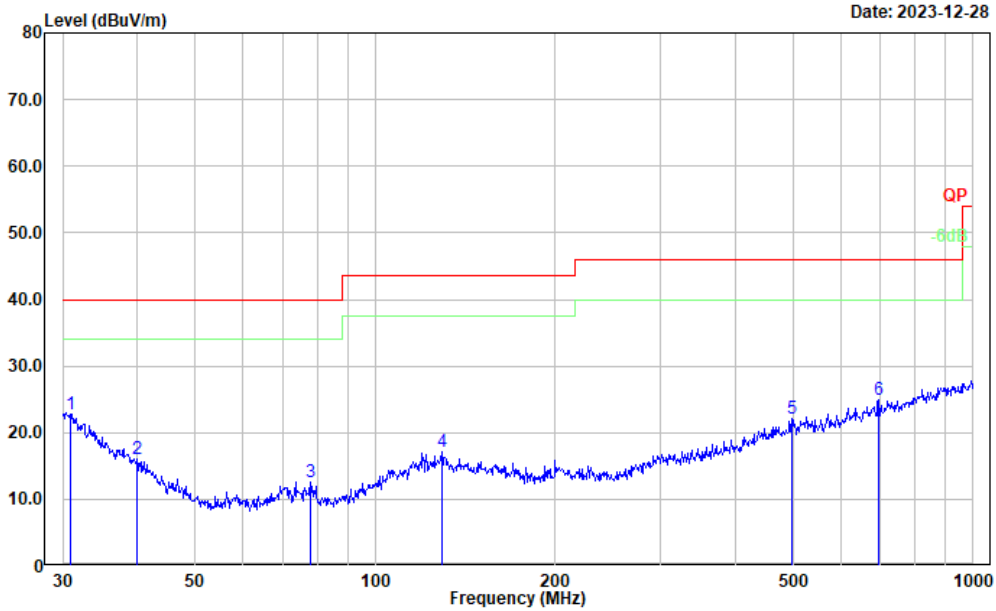
BDR Mode(8DPSK) Middle channel

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.424	28.19	-4.45	23.74	40.00	16.26	Peak
2	38.212	28.82	-10.32	18.50	40.00	21.50	Peak
3	132.221	27.92	-11.70	16.22	43.50	27.28	Peak
4	202.810	28.16	-12.72	15.44	43.50	28.06	Peak
5	508.258	28.47	-6.32	22.15	46.00	23.85	Peak
6	842.130	29.03	-1.85	27.18	46.00	18.82	Peak

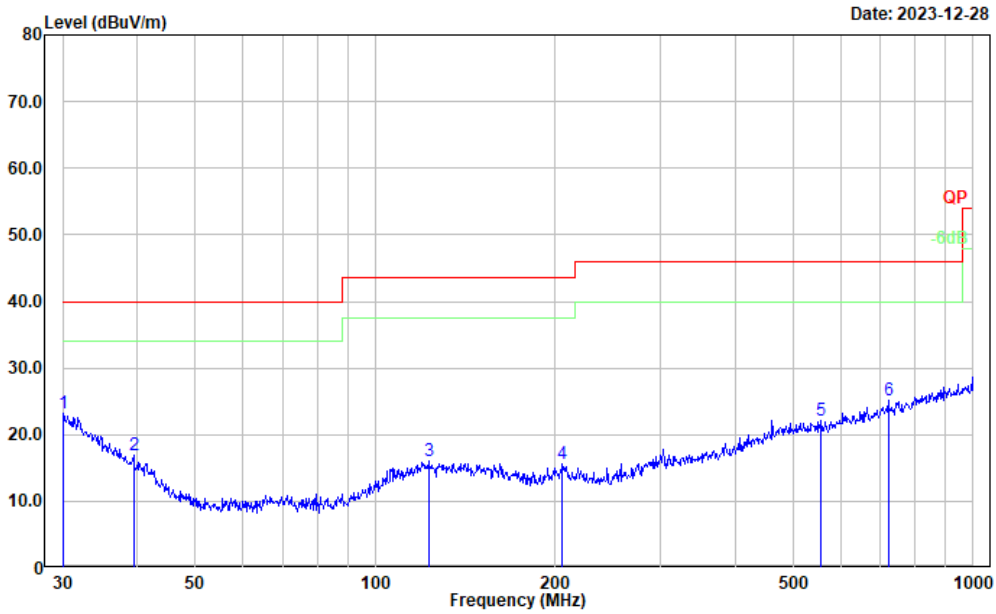
Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.962	27.54	-4.86	22.68	40.00	17.32	Peak
2	39.994	27.77	-11.72	16.05	40.00	23.95	Peak
3	77.865	30.23	-17.63	12.60	40.00	27.40	Peak
4	129.015	28.66	-11.63	17.03	43.50	26.47	Peak
5	497.677	28.57	-6.38	22.19	46.00	23.81	Peak
6	694.417	28.88	-4.03	24.85	46.00	21.15	Peak

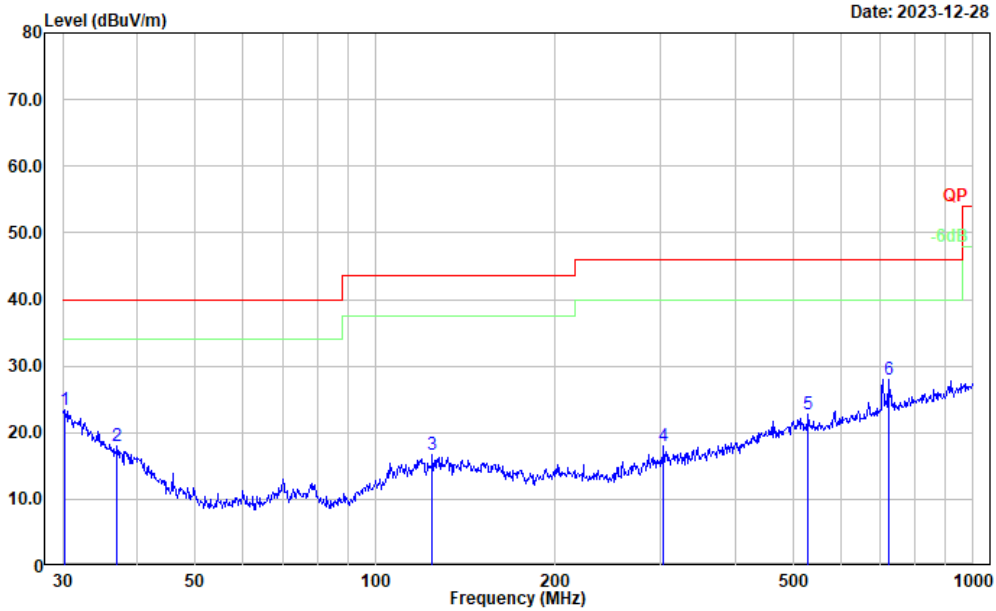
BDR Mode(8DPSK) High channel

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	27.27	-4.12	23.15	40.00	16.85	Peak
2	39.437	28.28	-11.29	16.99	40.00	23.01	Peak
3	122.834	27.70	-11.75	15.95	43.50	27.55	Peak
4	205.675	28.37	-12.85	15.52	43.50	27.98	Peak
5	556.774	28.29	-6.11	22.18	46.00	23.82	Peak
6	721.726	28.87	-3.63	25.24	46.00	20.76	Peak

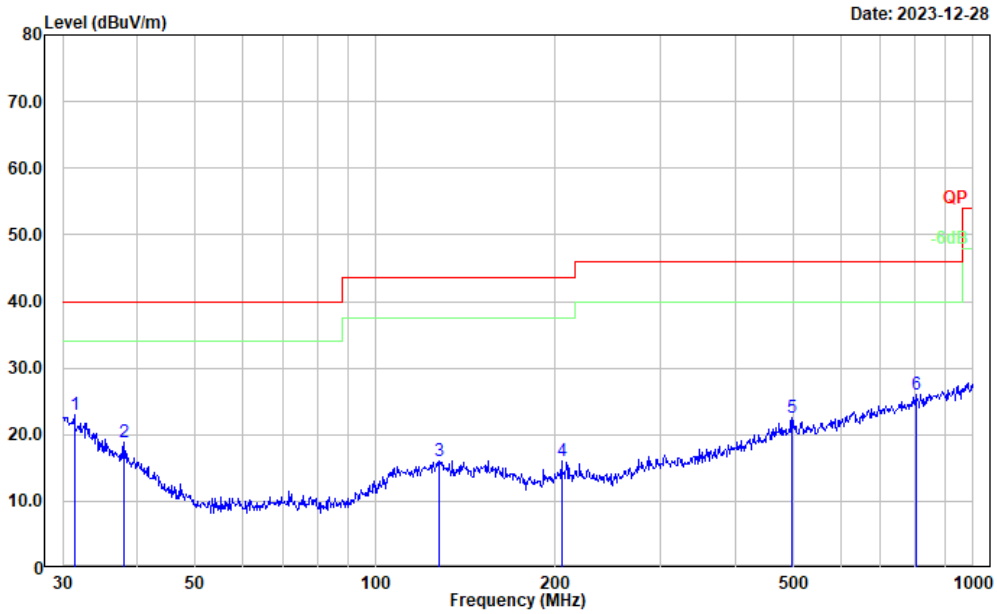
Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	27.70	-4.28	23.42	40.00	16.58	Peak
2	37.025	27.40	-9.47	17.93	40.00	22.07	Peak
3	124.569	28.37	-11.72	16.65	43.50	26.85	Peak
4	303.544	28.89	-10.98	17.91	46.00	28.09	Peak
5	530.101	29.05	-6.21	22.84	46.00	23.16	Peak
6	724.261	31.58	-3.62	27.96	46.00	18.04	Peak

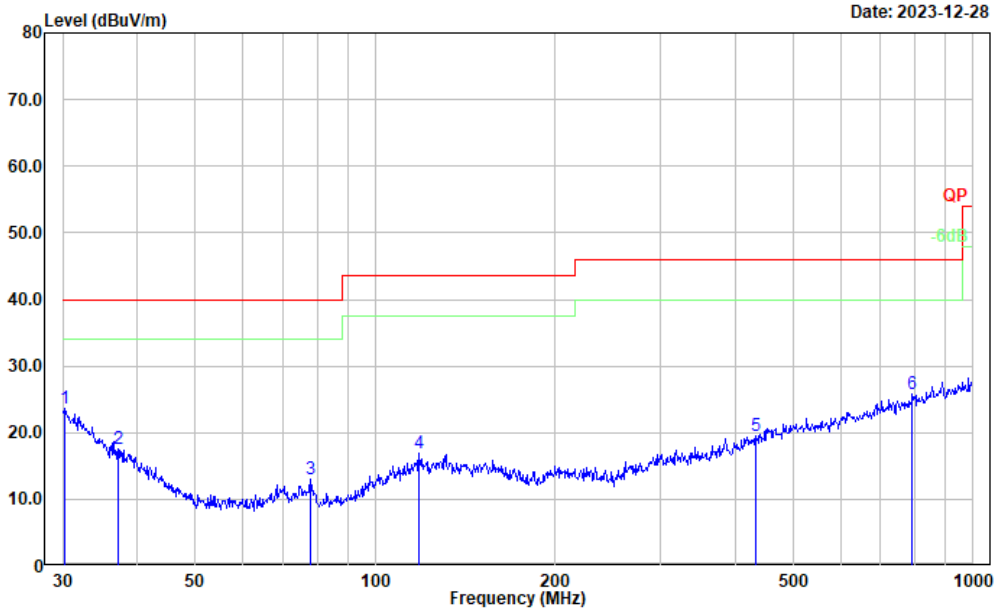
right orbit:
BDR Mode(8DPSK)-Low channel

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.399	28.12	-5.19	22.93	40.00	17.07	Peak
2	38.078	29.14	-10.21	18.93	40.00	21.07	Peak
3	128.113	27.77	-11.63	16.14	43.50	27.36	Peak
4	204.955	28.92	-12.84	16.08	43.50	27.42	Peak
5	497.677	28.95	-6.38	22.57	46.00	23.43	Peak
6	801.786	28.39	-2.39	26.00	46.00	20.00	Peak

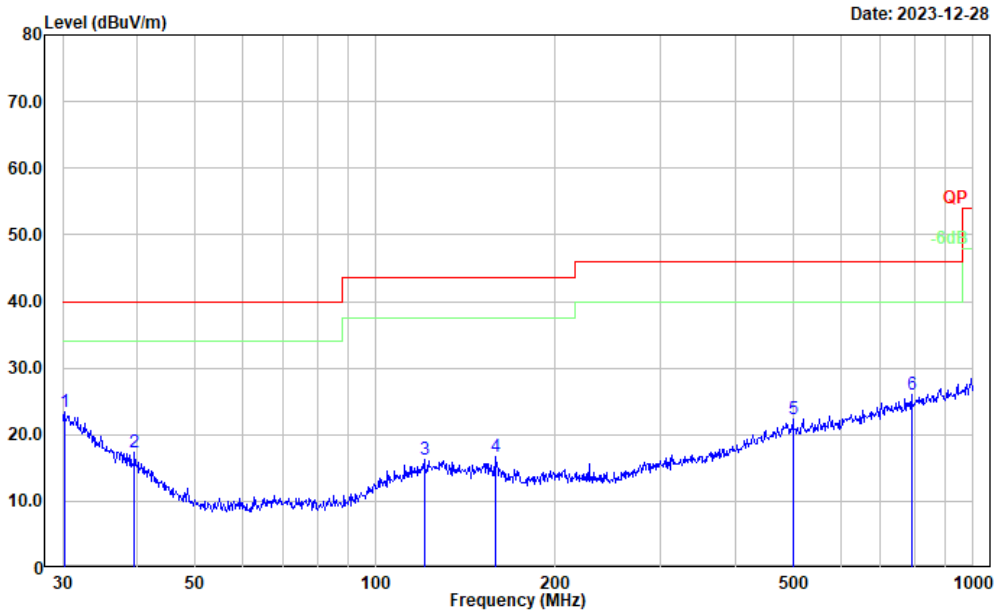
Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	27.91	-4.28	23.63	40.00	16.37	Peak
2	37.155	27.12	-9.56	17.56	40.00	22.44	Peak
3	77.865	30.58	-17.63	12.95	40.00	27.05	Peak
4	118.601	28.82	-11.94	16.88	43.50	26.62	Peak
5	432.546	27.47	-7.86	19.61	46.00	26.39	Peak
6	790.619	28.42	-2.63	25.79	46.00	20.21	Peak

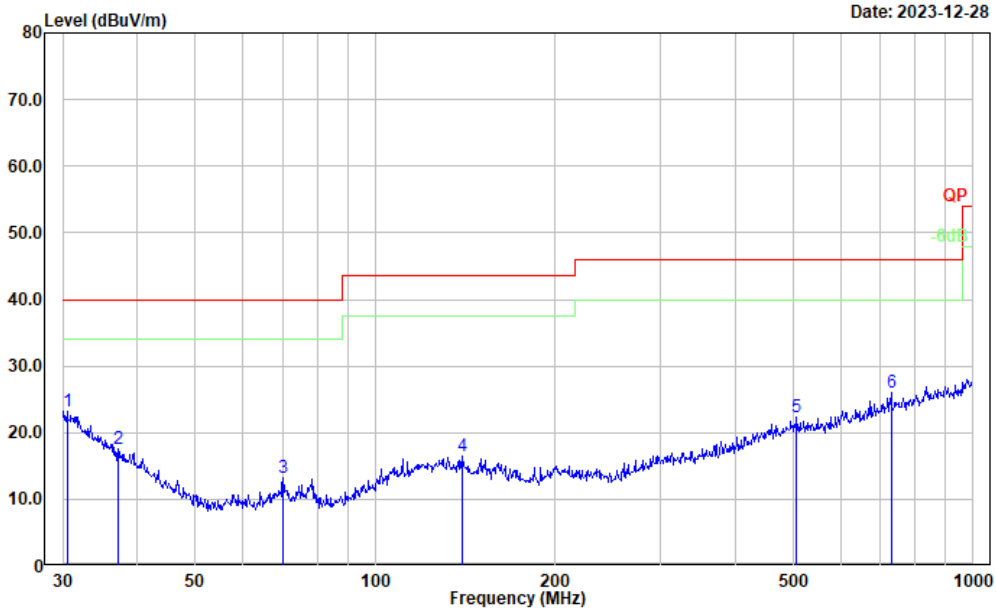
BDR Mode(8DPSK) Middle channel

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	27.63	-4.28	23.35	40.00	16.65	Peak
2	39.576	28.78	-11.39	17.39	40.00	22.61	Peak
3	120.699	28.11	-11.80	16.31	43.50	27.19	Peak
4	158.668	29.05	-12.35	16.70	43.50	26.80	Peak
5	499.425	28.62	-6.33	22.29	46.00	23.71	Peak
6	787.851	28.75	-2.65	26.10	46.00	19.90	Peak

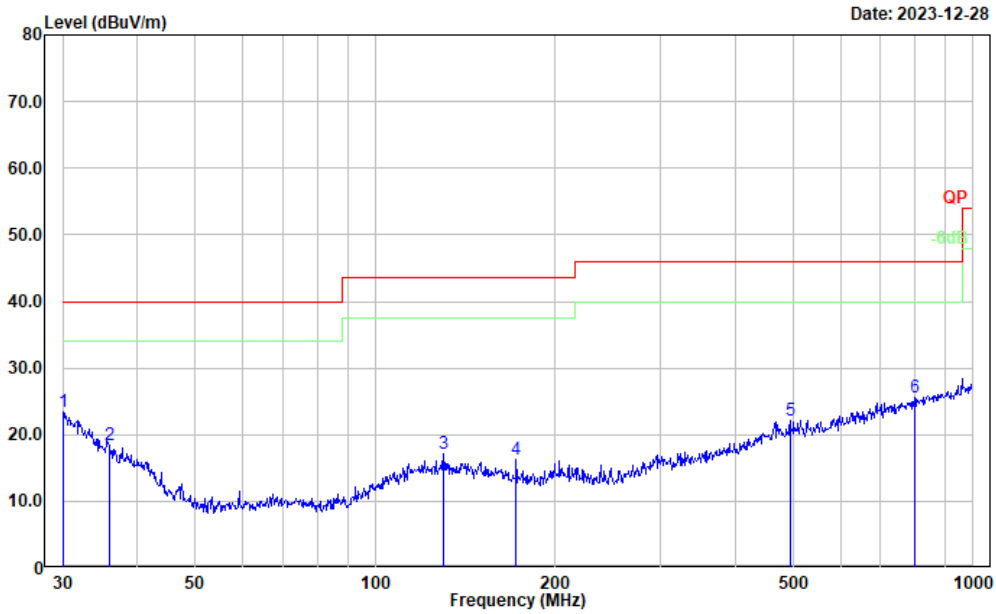
Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	27.75	-4.53	23.22	40.00	16.78	Peak
2	37.155	27.14	-9.56	17.58	40.00	22.42	Peak
3	70.090	30.07	-16.92	13.15	40.00	26.85	Peak
4	139.851	28.42	-12.04	16.38	43.50	27.12	Peak
5	506.479	28.65	-6.33	22.32	46.00	23.68	Peak
6	729.358	29.48	-3.57	25.91	46.00	20.09	Peak

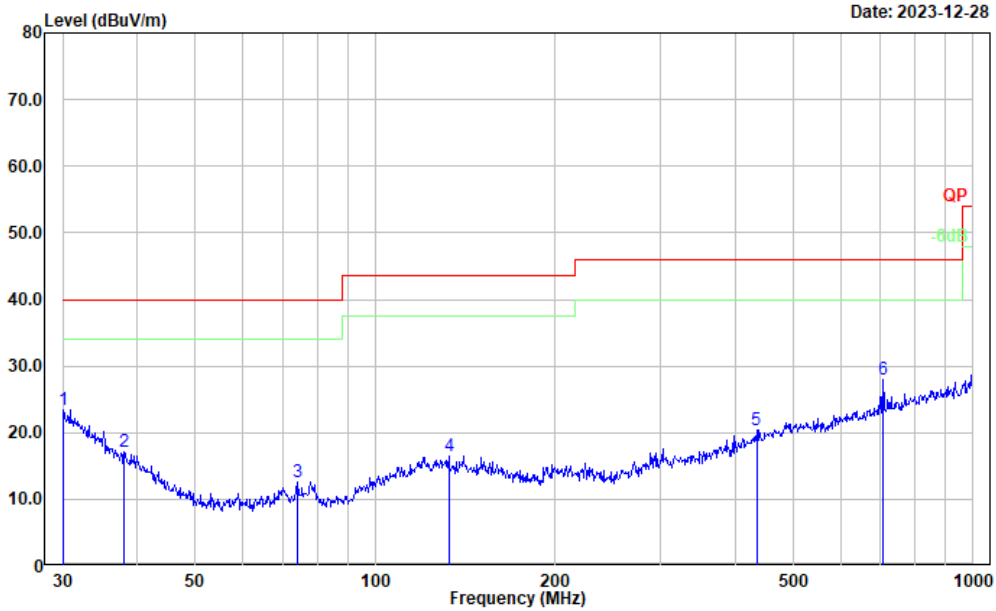
BDR Mode(8DPSK) High channel

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.105	27.57	-4.20	23.37	40.00	16.63	Peak
2	35.875	27.12	-8.61	18.51	40.00	21.49	Peak
3	130.379	28.72	-11.64	17.08	43.50	26.42	Peak
4	171.995	29.50	-13.29	16.21	43.50	27.29	Peak
5	494.199	28.62	-6.45	22.17	46.00	23.83	Peak
6	798.980	27.90	-2.41	25.49	46.00	20.51	Peak

Project No.: CR231168726-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	27.53	-4.12	23.41	40.00	16.59	Peak
2	38.078	27.24	-10.21	17.03	40.00	22.97	Peak
3	74.135	29.92	-17.32	12.60	40.00	27.40	Peak
4	132.685	28.28	-11.75	16.53	43.50	26.97	Peak
5	434.065	28.27	-7.80	20.47	46.00	25.53	Peak
6	706.700	31.71	-3.81	27.90	46.00	18.10	Peak

2) 1-25GHz:
Left side mirror legs:
BDR Mode(GFSK) was the worst:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	31.52	PK	H	31.71	63.23	74.00	10.77
2390.000	18.38	AV	H	31.71	50.09	54.00	3.91
2390.000	33.04	PK	V	31.71	64.75	74.00	9.25
2390.000	18.82	AV	V	31.71	50.53	54.00	3.47
4804.000	36.27	PK	H	11.19	47.46	74.00	26.54
4804.000	27.43	AV	H	11.19	38.62	54.00	15.38
4804.000	38.64	PK	V	11.19	49.83	74.00	24.17
4804.000	30.46	AV	V	11.19	41.65	54.00	12.35
7206.000	36.33	PK	H	15.03	51.36	74.00	22.64
7206.000	30.53	AV	H	15.03	45.56	54.00	8.44
7206.000	36.92	PK	V	15.03	51.95	74.00	22.05
7206.000	31.67	AV	V	15.03	46.70	54.00	7.30
Middle Channel: 2441 MHz							
4882.000	36.06	PK	H	11.48	47.54	74.00	26.46
4882.000	26.25	AV	H	11.48	37.73	54.00	16.27
4882.000	36.52	PK	V	11.48	48.00	74.00	26.00
4882.000	28.33	AV	V	11.48	39.81	54.00	14.19
7323.000	37.90	PK	H	15.57	53.47	74.00	20.53
7323.000	30.46	AV	H	15.57	46.03	54.00	7.97
7323.000	39.67	PK	V	15.57	55.24	74.00	18.76
7323.000	29.34	AV	V	15.57	44.91	54.00	9.09
High Channel: 2480 MHz							
2483.500	34.06	PK	H	32.19	66.25	74.00	7.75
2483.500	18.66	AV	H	32.19	50.85	54.00	3.15
2483.500	35.30	PK	V	32.19	67.49	74.00	6.51
2483.500	18.52	AV	V	32.19	50.71	54.00	3.29
4960.000	37.51	PK	H	11.77	49.28	74.00	24.72
4960.000	28.38	AV	H	11.77	40.15	54.00	13.85
4960.000	35.77	PK	V	11.77	47.54	74.00	26.46
4960.000	25.20	AV	V	11.77	36.97	54.00	17.03
7440.000	38.40	PK	H	15.98	54.38	74.00	19.62
7440.000	29.79	AV	H	15.98	45.77	54.00	8.23
7440.000	36.44	PK	V	15.98	52.42	74.00	21.58
7440.000	27.79	AV	V	15.98	43.77	54.00	10.23

2EDR Mode (π/4-DQPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	35.24	PK	H	31.71	66.95	74.00	7.05
2390.000	19.01	AV	H	31.71	50.72	54.00	3.28
2390.000	30.92	PK	V	31.71	62.63	74.00	11.37
2390.000	18.73	AV	V	31.71	50.44	54.00	3.56
4804.000	34.30	PK	H	11.19	45.49	74.00	28.51
4804.000	24.57	AV	H	11.19	35.76	54.00	18.24
4804.000	36.16	PK	V	11.19	47.35	74.00	26.65
4804.000	25.59	AV	V	11.19	36.78	54.00	17.22
7206.000	35.38	PK	H	15.03	50.41	74.00	23.59
7206.000	28.34	AV	H	15.03	43.37	54.00	10.63
7206.000	37.23	PK	V	15.03	52.26	74.00	21.74
7206.000	29.90	AV	V	15.03	44.93	54.00	9.07
Middle Channel: 2441 MHz							
4882.000	34.87	PK	H	11.48	46.35	74.00	27.65
4882.000	27.54	AV	H	11.48	39.02	54.00	14.98
4882.000	34.72	PK	V	11.48	46.20	74.00	27.80
4882.000	27.49	AV	V	11.48	38.97	54.00	15.03
7323.000	37.44	PK	H	15.57	53.01	74.00	20.99
7323.000	30.98	AV	H	15.57	46.55	54.00	7.45
7323.000	37.32	PK	V	15.57	52.89	74.00	21.11
7323.000	30.86	AV	V	15.57	46.43	54.00	7.57
High Channel: 2480 MHz							
2483.500	29.30	PK	H	32.19	61.49	74.00	12.51
2483.500	18.09	AV	H	32.19	50.28	54.00	3.72
2483.500	30.61	PK	V	32.19	62.80	74.00	11.20
2483.500	18.59	AV	V	32.19	50.78	54.00	3.22
4960.000	36.51	PK	H	11.77	48.28	74.00	25.72
4960.000	27.69	AV	H	11.77	39.46	54.00	14.54
4960.000	34.51	PK	V	11.77	46.28	74.00	27.72
4960.000	27.38	AV	V	11.77	39.15	54.00	14.85
7440.000	37.04	PK	H	15.98	53.02	74.00	20.98
7440.000	29.40	AV	H	15.98	45.38	54.00	8.62
7440.000	35.07	PK	V	15.98	51.05	74.00	22.95
7440.000	27.51	AV	V	15.98	43.49	54.00	10.51

3EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	31.71	PK	H	31.71	63.42	74.00	10.58
2390.000	18.67	AV	H	31.71	50.38	54.00	3.62
2390.000	33.52	PK	V	31.71	65.23	74.00	8.77
2390.000	18.93	AV	V	31.71	50.64	54.00	3.36
4804.000	34.78	PK	H	11.19	45.97	74.00	28.03
4804.000	27.60	AV	H	11.19	38.79	54.00	15.21
4804.000	34.83	PK	V	11.19	46.02	74.00	27.98
4804.000	26.19	AV	V	11.19	37.38	54.00	16.62
7206.000	35.40	PK	H	15.03	50.43	74.00	23.57
7206.000	26.96	AV	H	15.03	41.99	54.00	12.01
7206.000	35.87	PK	V	15.03	50.90	74.00	23.10
7206.000	28.02	AV	V	15.03	43.05	54.00	10.95
Middle Channel: 2441 MHz							
4882.000	35.11	PK	H	11.48	46.59	74.00	27.41
4882.000	27.66	AV	H	11.48	39.14	54.00	14.86
4882.000	35.59	PK	V	11.48	47.07	74.00	26.93
4882.000	28.27	AV	V	11.48	39.75	54.00	14.25
7323.000	37.67	PK	H	15.57	53.24	74.00	20.76
7323.000	31.05	AV	H	15.57	46.62	54.00	7.38
7323.000	37.65	PK	V	15.57	53.22	74.00	20.78
7323.000	29.17	AV	V	15.57	45.74	54.00	8.26
High Channel: 2480 MHz							
2483.500	27.06	PK	H	32.19	59.25	74.00	14.75
2483.500	18.60	AV	H	32.19	50.79	54.00	3.21
2483.500	26.55	PK	V	32.19	58.74	74.00	15.26
2483.500	18.24	AV	V	32.19	50.43	54.00	3.57
4960.000	35.30	PK	H	11.77	47.07	74.00	26.93
4960.000	26.42	AV	H	11.77	38.19	54.00	15.81
4960.000	35.48	PK	V	11.77	47.25	74.00	26.75
4960.000	26.31	AV	V	11.77	38.08	54.00	15.92
7440.000	37.58	PK	H	15.98	53.56	74.00	20.44
7440.000	30.16	AV	H	15.98	46.14	54.00	7.86
7440.000	36.19	PK	V	15.98	52.17	74.00	21.83
7440.000	27.61	AV	V	15.98	43.59	54.00	10.41

Right side mirror legs:
BDR Mode(GFSK) was the worst:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	31.23	PK	H	31.71	62.94	74.00	11.06
2390.000	18.52	AV	H	31.71	50.23	54.00	3.77
2390.000	32.06	PK	V	31.71	63.77	74.00	10.23
2390.000	18.40	AV	V	31.71	50.11	54.00	3.89
4804.000	37.94	PK	H	11.19	49.13	74.00	24.87
4804.000	28.08	AV	H	11.19	39.27	54.00	14.73
4804.000	40.63	PK	V	11.19	51.82	74.00	22.18
4804.000	30.69	AV	V	11.19	41.88	54.00	12.12
7206.000	36.10	PK	H	15.03	51.13	74.00	22.87
7206.000	31.52	AV	H	15.03	46.55	54.00	7.45
7206.000	41.52	PK	V	15.03	56.55	74.00	17.45
7206.000	32.63	AV	V	15.03	47.66	54.00	6.34
Middle Channel: 2441 MHz							
4882.000	37.02	PK	H	11.48	48.50	74.00	25.50
4882.000	27.36	AV	H	11.48	38.84	54.00	15.16
4882.000	37.96	PK	V	11.48	49.44	74.00	24.56
4882.000	28.50	AV	V	11.48	39.98	54.00	14.02
7323.000	39.06	PK	H	15.57	54.63	74.00	19.37
7323.000	31.57	AV	H	15.57	47.14	54.00	6.86
7323.000	40.90	PK	V	15.57	56.47	74.00	17.53
7323.000	30.68	AV	V	15.57	46.25	54.00	7.75
High Channel: 2480 MHz							
2483.500	34.16	PK	H	32.19	66.35	74.00	7.65
2483.500	18.56	AV	H	32.19	50.75	54.00	3.25
2483.500	35.09	PK	V	32.19	67.28	74.00	6.72
2483.500	18.32	AV	V	32.19	50.51	54.00	3.49
4960.000	38.25	PK	H	11.77	50.02	74.00	23.98
4960.000	29.21	AV	H	11.77	40.98	54.00	13.02
4960.000	37.14	PK	V	11.77	48.91	74.00	25.09
4960.000	26.86	AV	V	11.77	38.63	54.00	15.37
7440.000	39.77	PK	H	15.98	55.75	74.00	18.25
7440.000	30.42	AV	H	15.98	46.40	54.00	7.60
7440.000	37.88	PK	V	15.98	53.86	74.00	20.14
7440.000	28.42	AV	V	15.98	44.40	54.00	9.60

2EDR Mode (π/4-DQPSK):

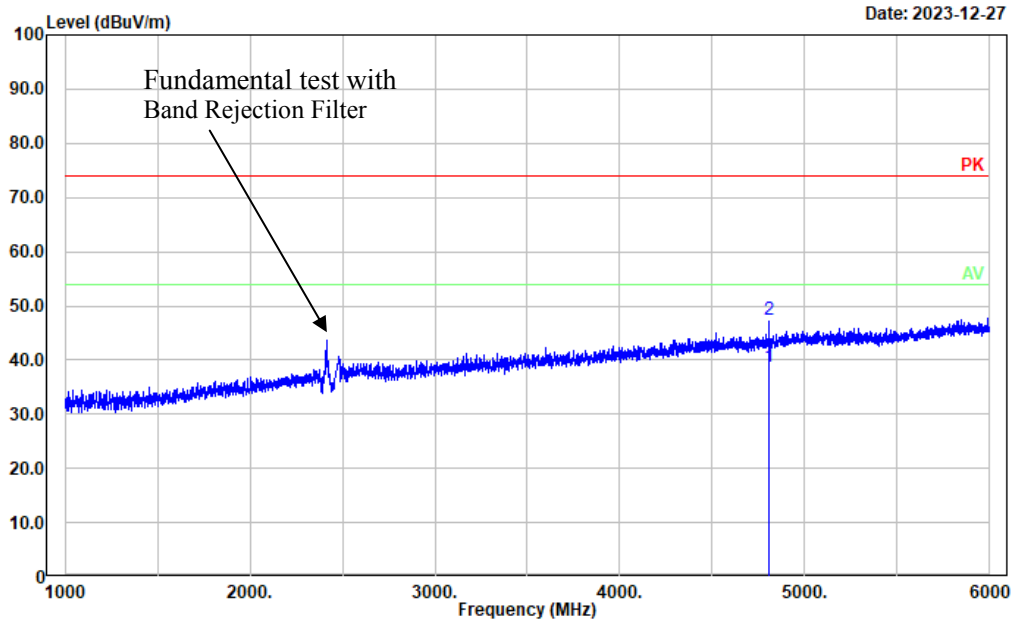
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	35.04	PK	H	31.71	66.75	74.00	7.25
2390.000	18.80	AV	H	31.71	50.51	54.00	3.49
2390.000	30.82	PK	V	31.71	62.53	74.00	11.47
2390.000	18.63	AV	V	31.71	50.34	54.00	3.66
4804.000	35.37	PK	H	11.19	46.56	74.00	27.44
4804.000	25.54	AV	H	11.19	36.73	54.00	17.27
4804.000	37.43	PK	V	11.19	48.62	74.00	25.38
4804.000	26.66	AV	V	11.19	37.85	54.00	16.15
7206.000	36.65	PK	H	15.03	51.68	74.00	22.32
7206.000	29.41	AV	H	15.03	44.44	54.00	9.56
7206.000	38.43	PK	V	15.03	53.46	74.00	20.54
7206.000	31.04	AV	V	15.03	46.07	54.00	7.93
Middle Channel: 2441 MHz							
4882.000	36.07	PK	H	11.48	47.55	74.00	26.45
4882.000	28.73	AV	H	11.48	40.21	54.00	13.79
4882.000	36.16	PK	V	11.48	47.64	74.00	26.36
4882.000	28.94	AV	V	11.48	40.42	54.00	13.58
7323.000	38.89	PK	H	15.57	54.46	74.00	19.54
7323.000	31.78	AV	H	15.57	47.35	54.00	6.65
7323.000	38.59	PK	V	15.57	54.16	74.00	19.84
7323.000	31.87	AV	V	15.57	47.44	54.00	6.56
High Channel: 2480 MHz							
2483.500	29.66	PK	H	32.19	61.85	74.00	12.15
2483.500	18.57	AV	H	32.19	50.76	54.00	3.24
2483.500	30.79	PK	V	32.19	62.98	74.00	11.02
2483.500	18.49	AV	V	32.19	50.68	54.00	3.32
4960.000	37.84	PK	H	11.77	49.61	74.00	24.39
4960.000	29.55	AV	H	11.77	41.32	54.00	12.68
4960.000	36.82	PK	V	11.77	48.59	74.00	25.41
4960.000	29.65	AV	V	11.77	41.42	54.00	12.58
7440.000	39.28	PK	H	15.98	55.26	74.00	18.74
7440.000	31.45	AV	H	15.98	47.43	54.00	6.57
7440.000	38.29	PK	V	15.98	54.27	74.00	19.73
7440.000	29.84	AV	V	15.98	45.82	54.00	8.18

3EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2402 MHz							
2390.000	31.72	PK	H	31.71	63.43	74.00	10.57
2390.000	18.86	AV	H	31.71	50.57	54.00	3.43
2390.000	33.62	PK	V	31.71	65.33	74.00	8.67
2390.000	18.87	AV	V	31.71	50.58	54.00	3.42
4804.000	36.03	PK	H	11.19	47.22	74.00	26.78
4804.000	28.58	AV	H	11.19	39.77	54.00	14.23
4804.000	35.97	PK	V	11.19	47.16	74.00	26.84
4804.000	28.29	AV	V	11.19	39.48	54.00	14.52
7206.000	36.54	PK	H	15.03	51.57	74.00	22.43
7206.000	28.21	AV	H	15.03	43.24	54.00	10.76
7206.000	37.55	PK	V	15.03	52.58	74.00	21.42
7206.000	28.94	AV	V	15.03	43.97	54.00	10.03
Middle Channel: 2441 MHz							
4882.000	35.65	PK	H	11.48	47.13	74.00	26.87
4882.000	28.49	AV	H	11.48	39.97	54.00	14.03
4882.000	36.85	PK	V	11.48	48.33	74.00	25.67
4882.000	28.72	AV	V	11.48	40.20	54.00	13.80
7323.000	39.01	PK	H	15.57	54.58	74.00	19.42
7323.000	32.10	AV	H	15.57	47.67	54.00	6.33
7323.000	38.87	PK	V	15.57	54.44	74.00	19.56
7323.000	32.20	AV	V	15.57	47.77	54.00	6.23
High Channel: 2480 MHz							
2483.500	27.24	PK	H	32.19	59.43	74.00	14.57
2483.500	18.27	AV	H	32.19	50.46	54.00	3.54
2483.500	26.49	PK	V	32.19	58.68	74.00	15.32
2483.500	18.27	AV	V	32.19	50.46	54.00	3.54
4960.000	36.56	PK	H	11.77	48.33	74.00	25.67
4960.000	27.71	AV	H	11.77	39.48	54.00	14.52
4960.000	36.58	PK	V	11.77	48.35	74.00	25.65
4960.000	27.58	AV	V	11.77	39.35	54.00	14.65
7440.000	38.70	PK	H	15.98	54.68	74.00	19.32
7440.000	31.16	AV	H	15.98	47.14	54.00	6.86
7440.000	37.35	PK	V	15.98	53.33	74.00	20.67
7440.000	28.69	AV	V	15.98	44.67	54.00	9.33

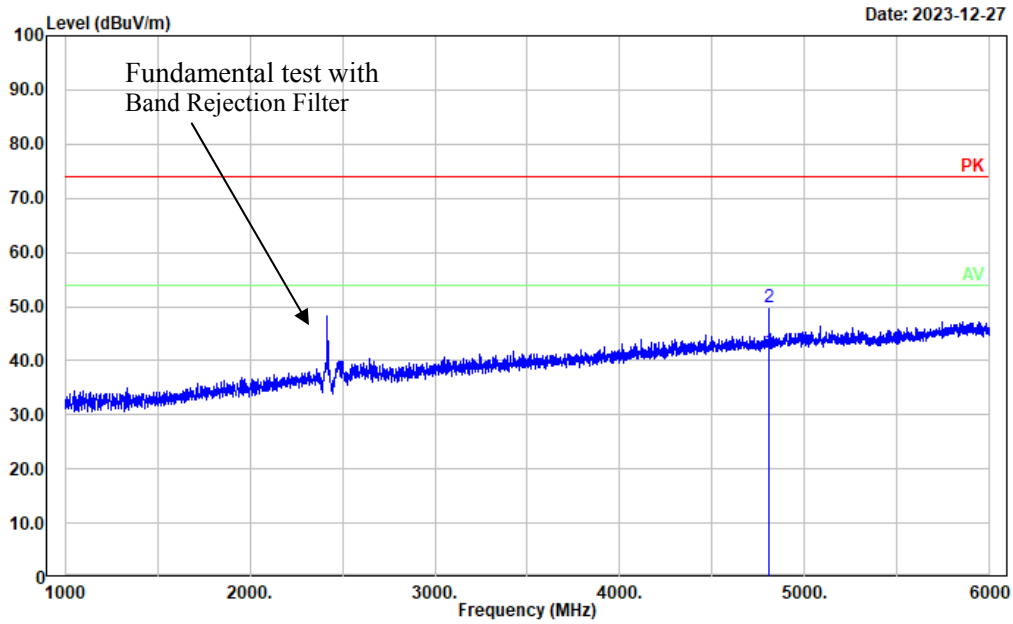
Worst Test plots
Left side mirror legs (BDR GFSK Low channel)**:**

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: horizontal
Note: BT



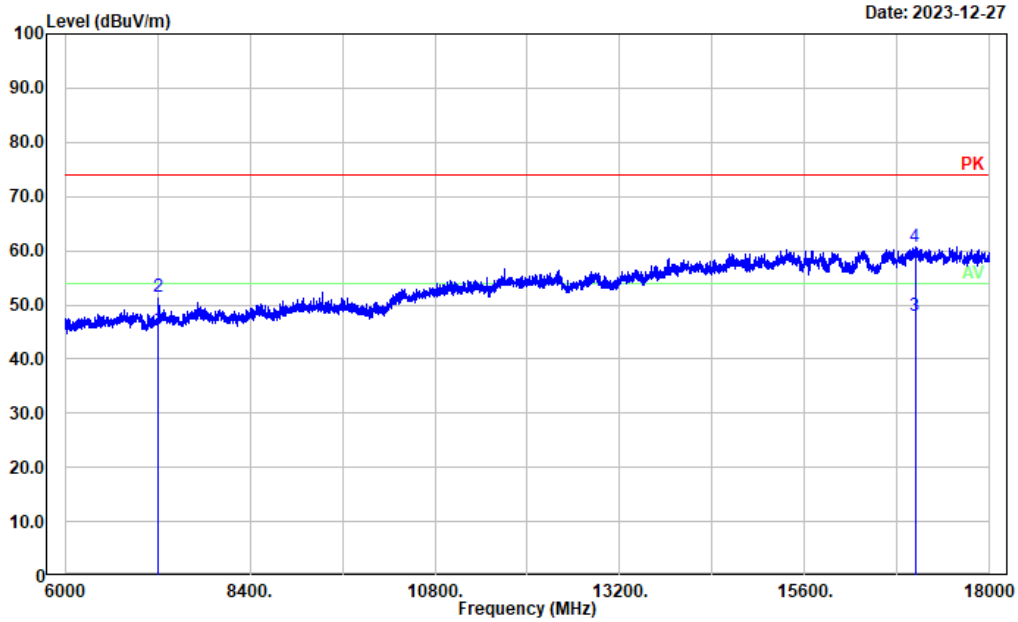
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.000	27.43	11.19	38.62	54.00	15.38	Average
2	4804.000	36.27	11.19	47.46	74.00	26.54	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: vertical
Note: BT



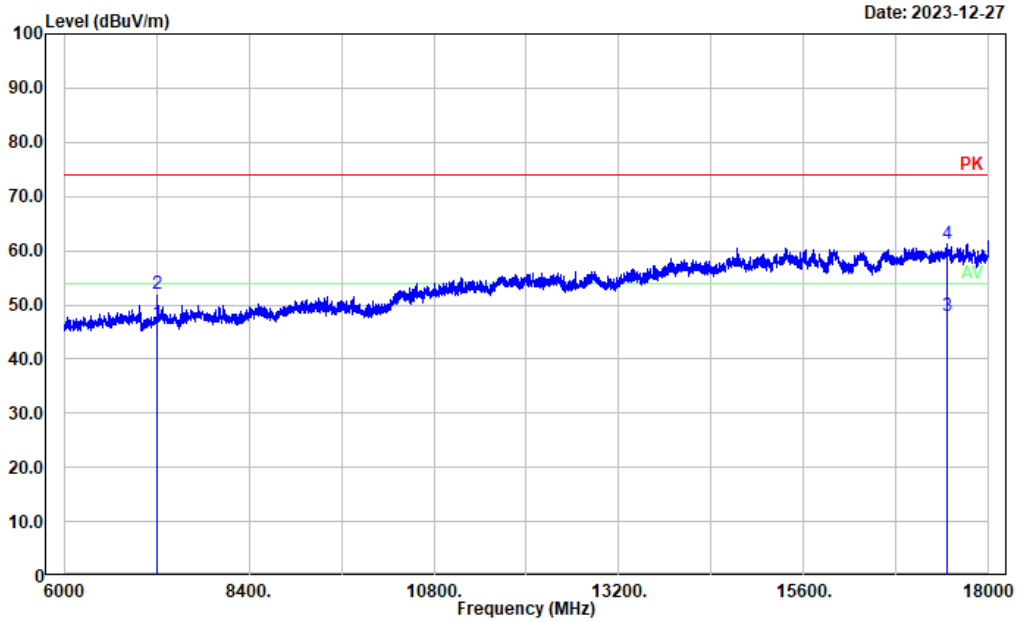
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.000	30.46	11.19	41.65	54.00	12.35	Average
2	4804.000	38.64	11.19	49.83	74.00	24.17	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: horizontal
Note: BT



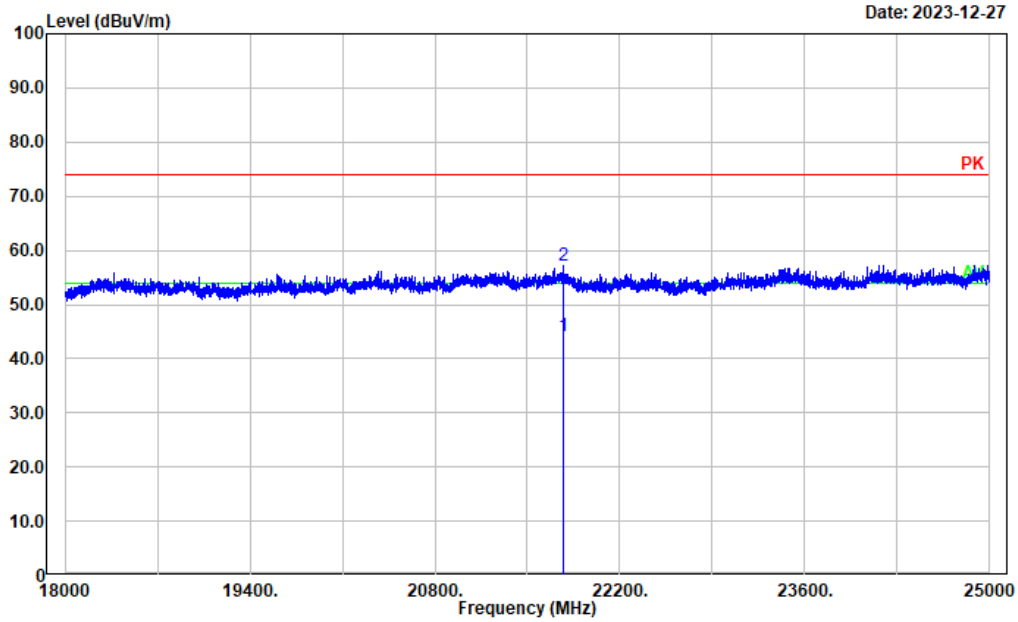
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7206.000	30.53	15.03	45.56	54.00	8.44	Average
2	7206.000	36.33	15.03	51.36	74.00	22.64	Peak
3	17030.400	19.65	28.22	47.87	54.00	6.13	Average
4	17030.400	32.58	28.22	60.80	74.00	13.20	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: vertical
Note: BT



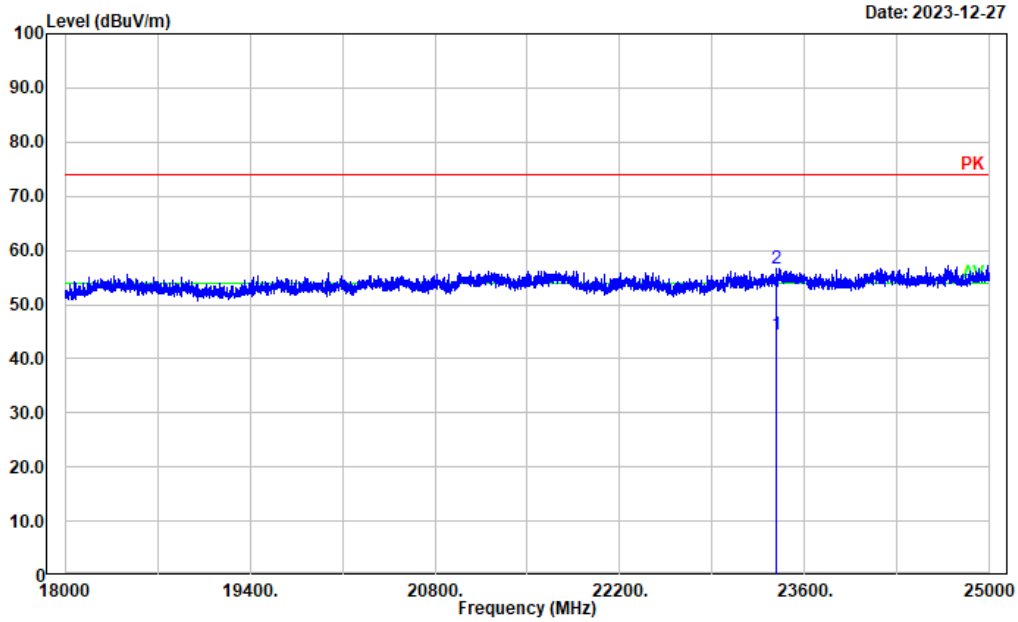
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7206.000	31.67	15.03	46.70	54.00	7.30	Average
2	7206.000	36.92	15.03	51.95	74.00	22.05	Peak
3	17462.400	18.03	29.85	47.88	54.00	6.12	Average
4	17462.400	31.49	29.85	61.34	74.00	12.66	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: Horizontal
Note: BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	21773.000	39.28	5.00	44.28	54.00	9.72	Average
2	21773.000	52.10	5.00	57.10	74.00	16.90	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: Vertical
Note: BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	23388.600	38.97	5.40	44.37	54.00	9.63	Average
2	23388.600	51.36	5.40	56.76	74.00	17.24	Peak

Right side mirror legs (EDR 8DPSK Middle channel):

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Project No.: CR231168726-RF
     Tester: coco Tian
Polarization: horizontal
       Note: Bt
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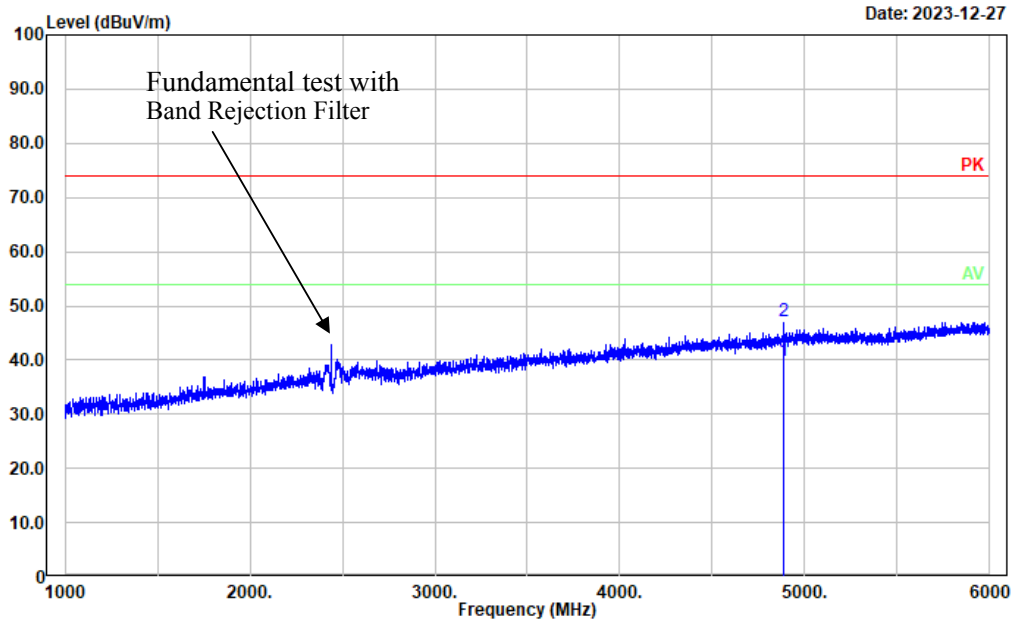
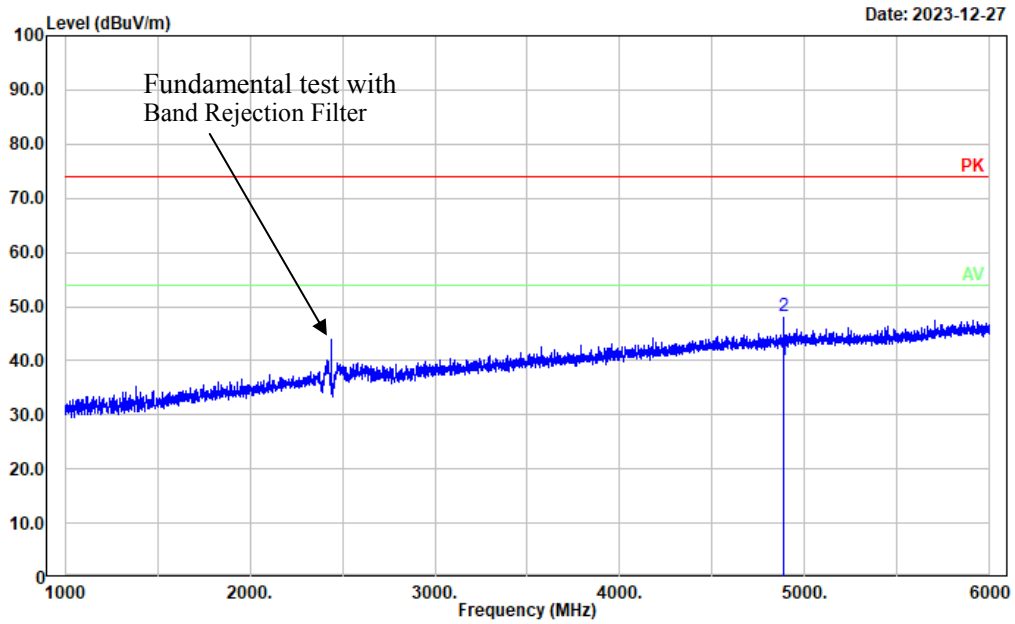


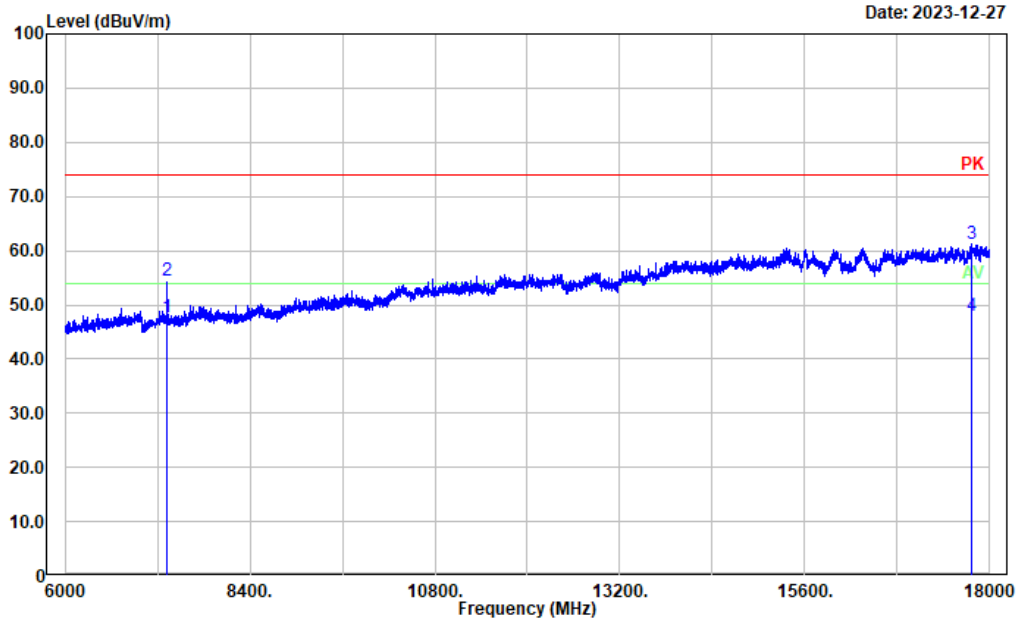
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4882.000	28.49	11.48	39.97	54.00	14.03	Average
2	4882.000	35.65	11.48	47.13	74.00	26.87	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: vertical
Note: Bt



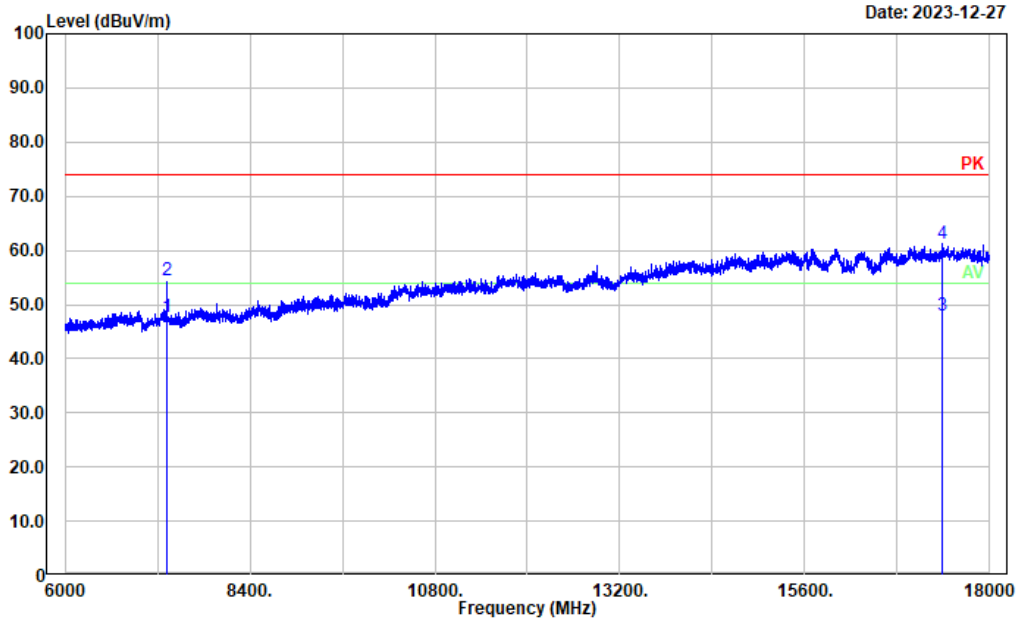
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4882.000	28.72	11.48	40.20	54.00	13.80	Average
2	4882.000	36.85	11.48	48.33	74.00	25.67	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: horizontal
Note: Bt



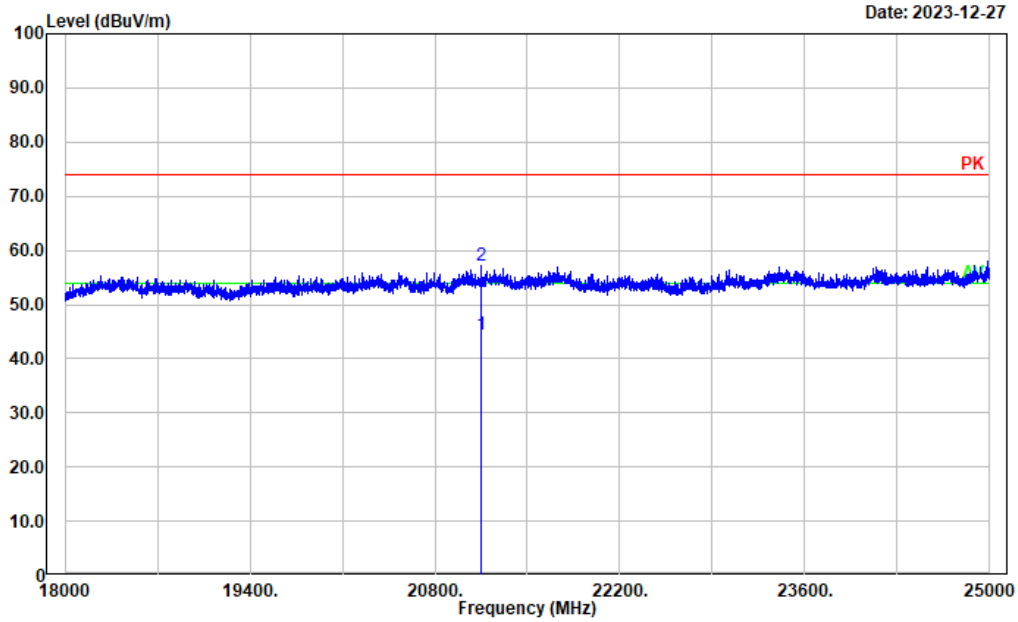
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7323.000	32.10	15.57	47.67	54.00	6.33	Average
2	7323.000	39.01	15.57	54.58	74.00	19.42	Peak
3	17764.800	29.69	31.49	61.18	74.00	12.82	Peak
4	17764.800	16.38	31.49	47.87	74.00	26.13	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: vertical
Note: Bt



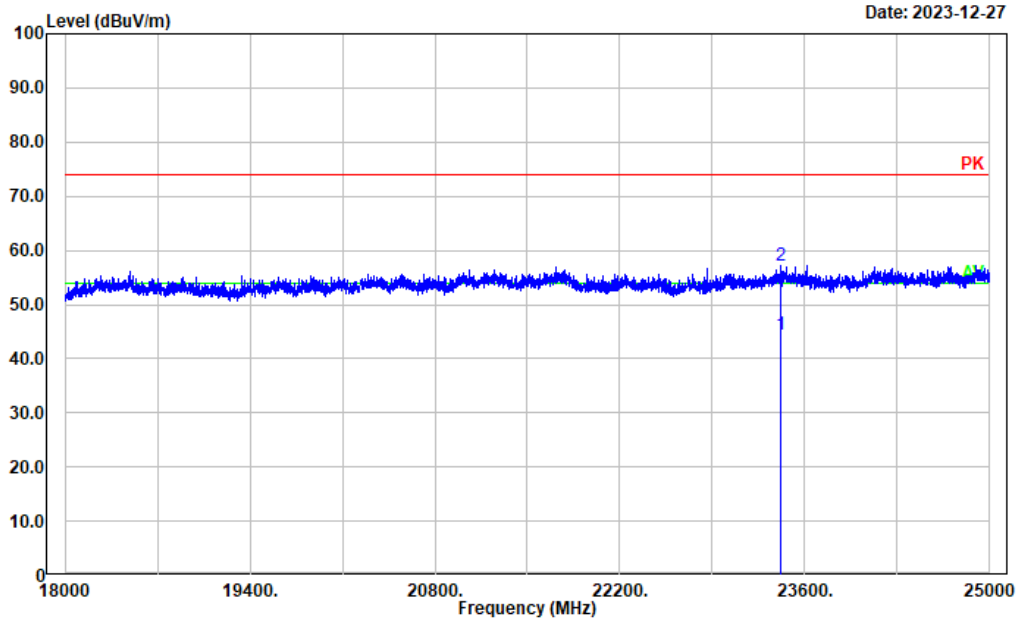
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7323.000	32.20	15.57	47.77	54.00	6.23	Average
2	7323.000	38.87	15.57	54.44	74.00	19.56	Peak
3	17390.400	18.25	29.63	47.88	54.00	6.12	Average
4	17390.400	31.56	29.63	61.19	74.00	12.81	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: Horizontal
Note: Bt



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	21145.800	39.61	4.74	44.35	54.00	9.65	Average
2	21145.800	52.34	4.74	57.08	74.00	16.92	Peak

Project No.: CR231168726-RF
Tester: coco Tian
Polarization: Vertical
Note: Bt



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	23422.200	38.96	5.39	44.35	54.00	9.65	Average
2	23422.200	51.70	5.39	57.09	74.00	16.91	Peak

4.3 20 dB Emission Bandwidth

Serial Number:	2DVE-2	Test Date:	2023/11/28~2023/12/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24-25	Relative Humidity: (%)	31-48	ATM Pressure: (kPa)	100.28-101.54

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Left side mirror legs:

Test Data:

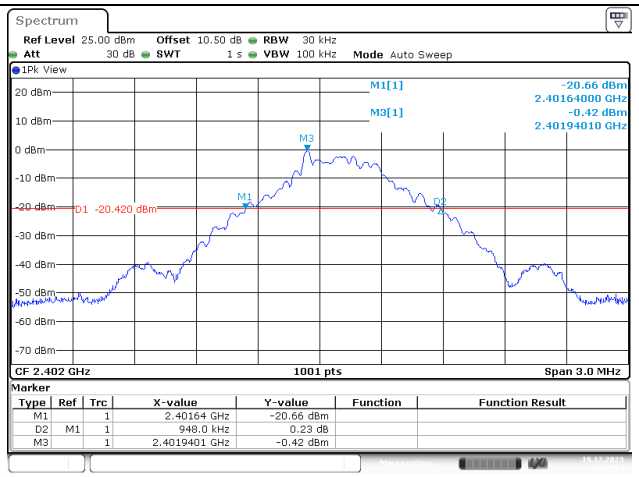
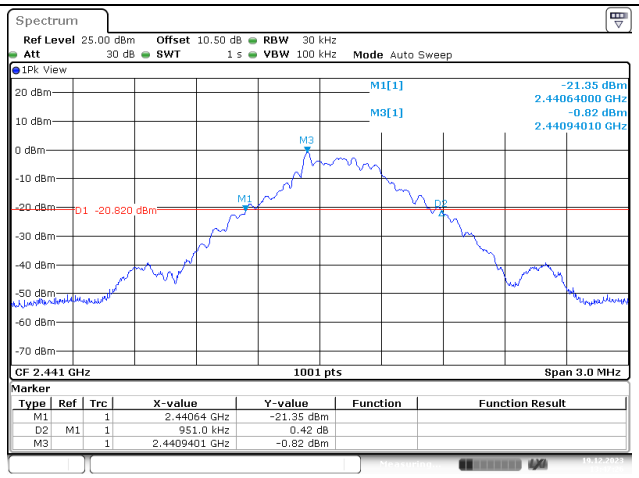
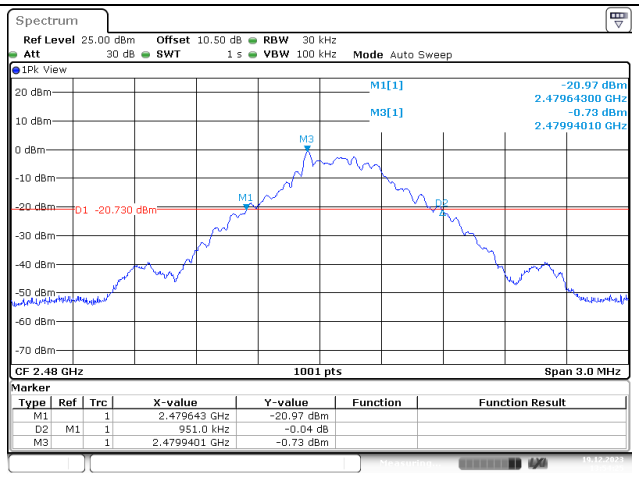
Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.948
	Middle	2441	0.951
	Highest	2480	0.951
EDR Mode (π/4-DQPSK)	Lowest	2402	1.245
	Middle	2441	1.257
	Highest	2480	1.257
EDR Mode (8DPSK)	Lowest	2402	1.203
	Middle	2441	1.203
	Highest	2480	1.203

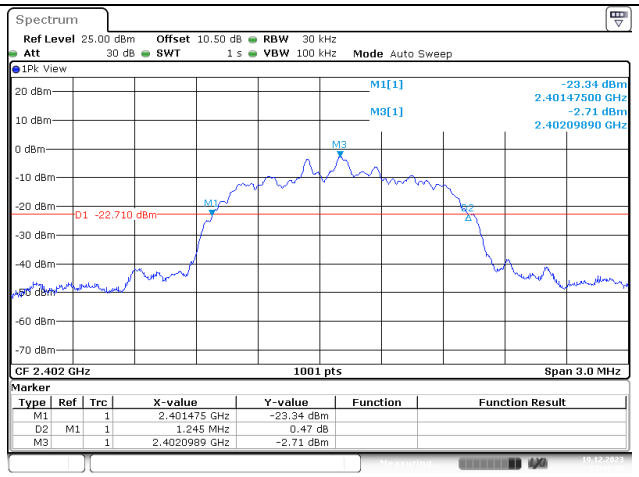
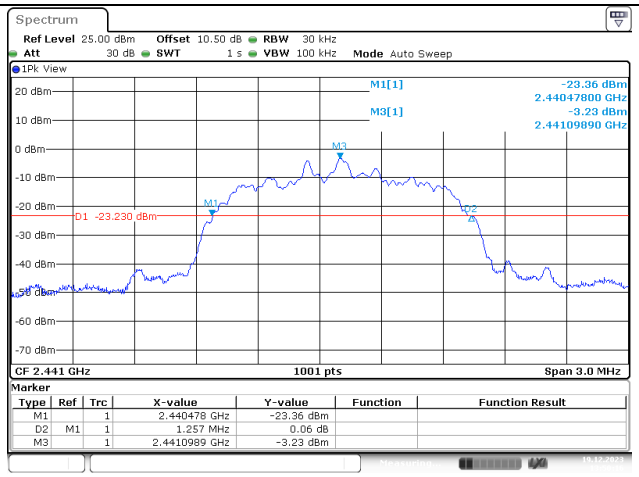
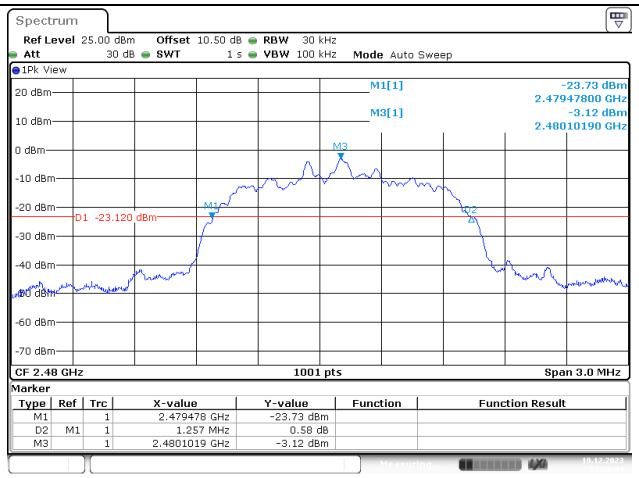
Right side mirror legs:

Test Data:

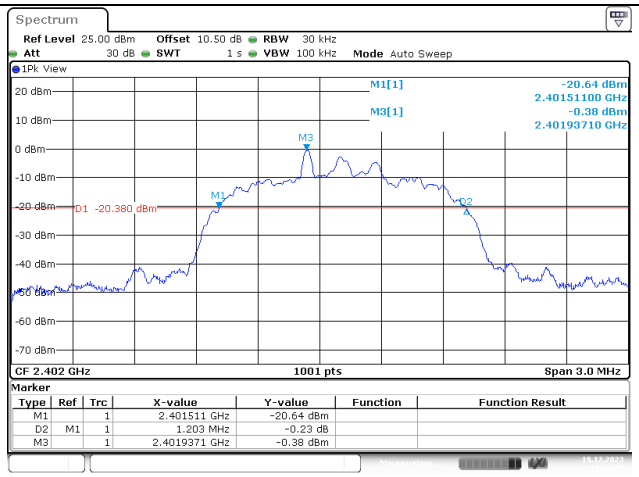
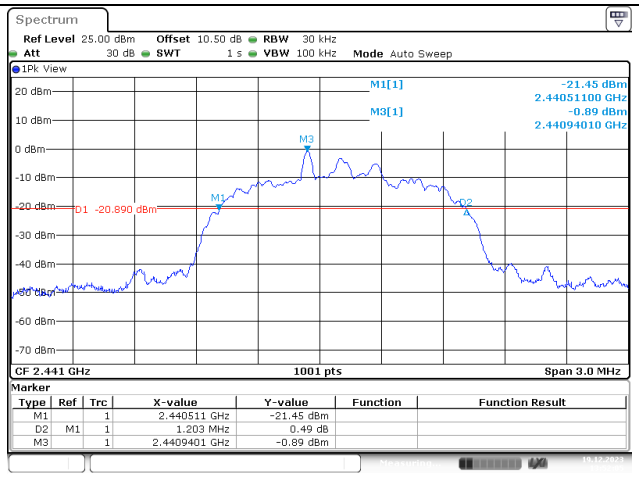
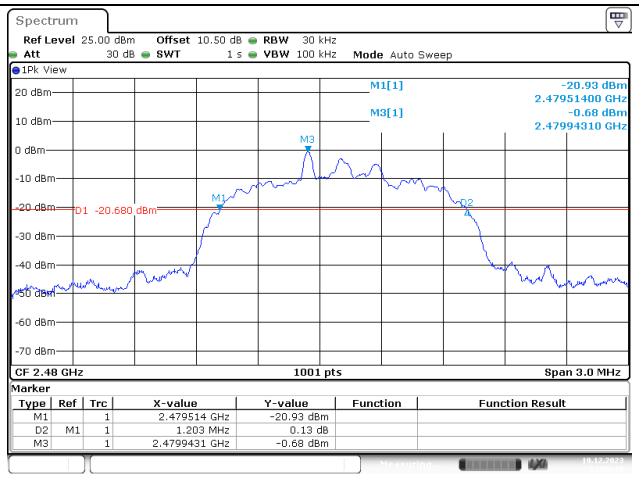
Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.948
	Middle	2441	0.951
	Highest	2480	0.951
EDR Mode (π/4-DQPSK)	Lowest	2402	1.242
	Middle	2441	1.239
	Highest	2480	1.239
EDR Mode (8DPSK)	Lowest	2402	1.206
	Middle	2441	1.2
	Highest	2480	1.2

Left side mirror legs:

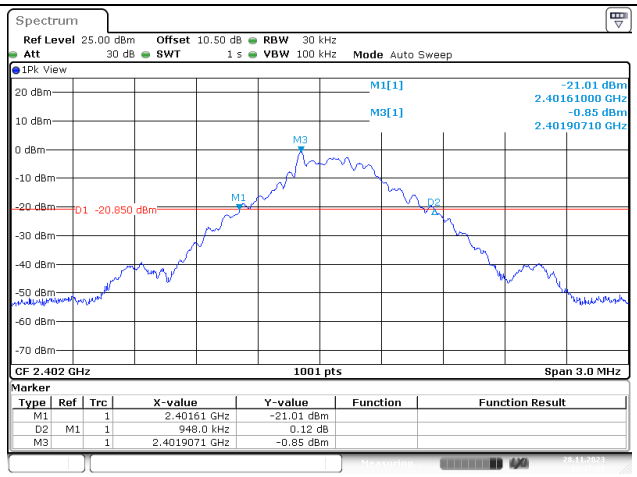
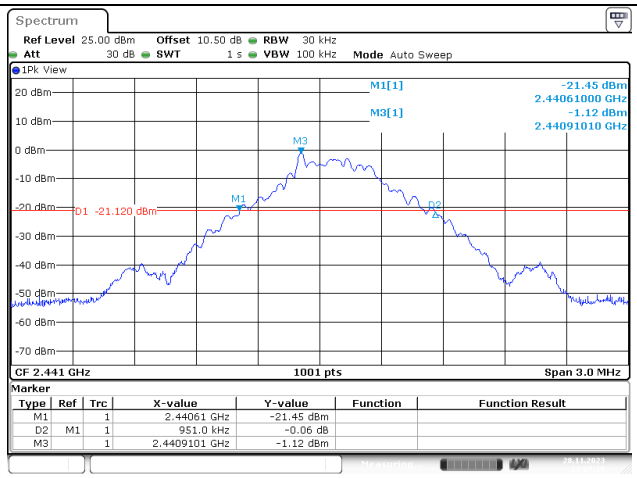
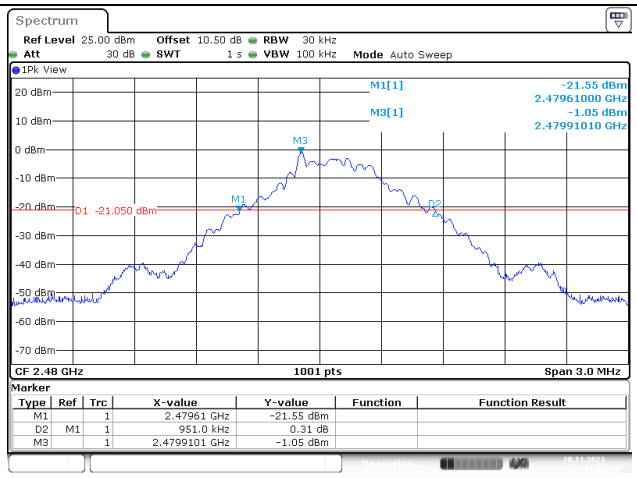
BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

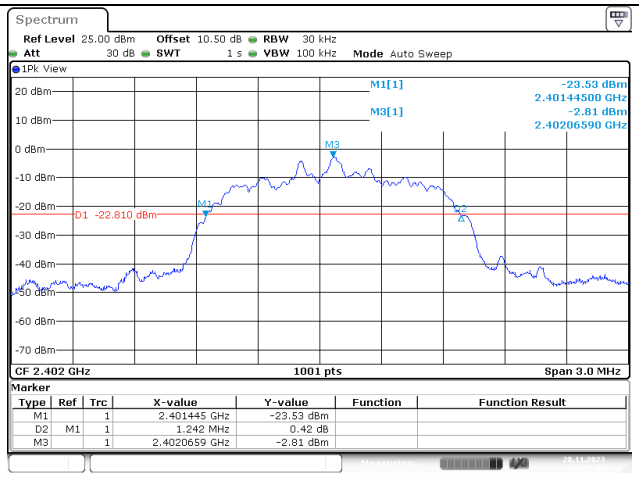
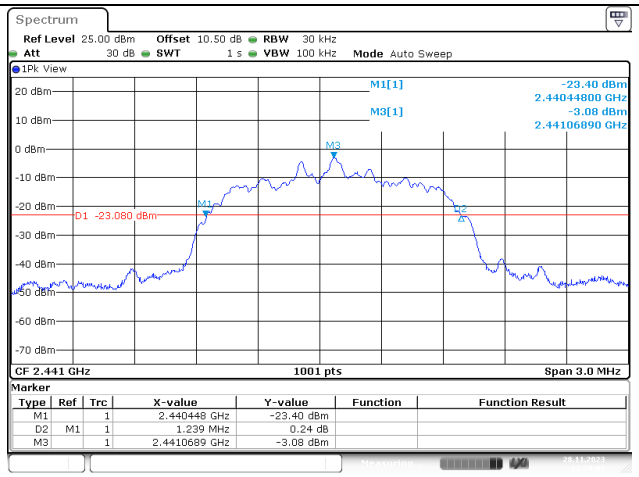
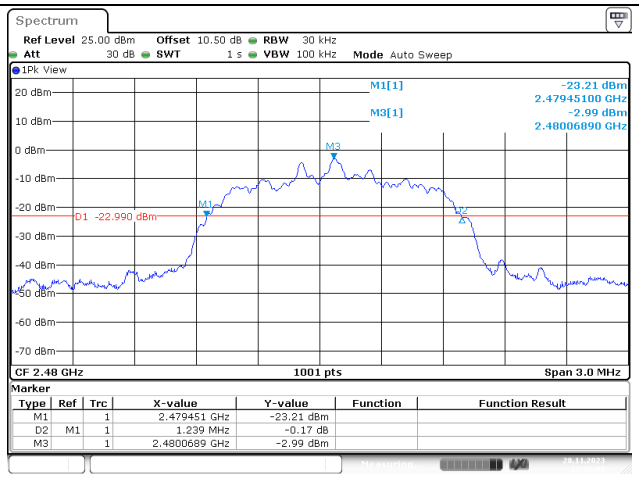
EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

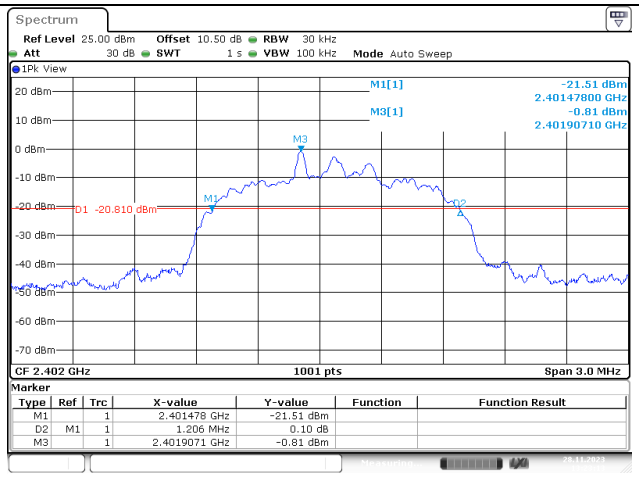
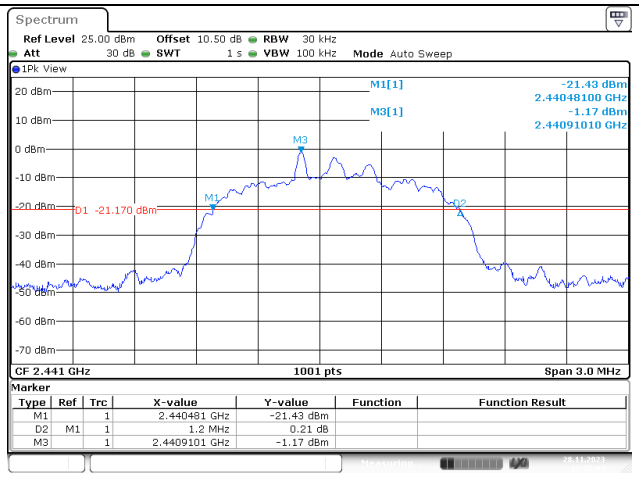
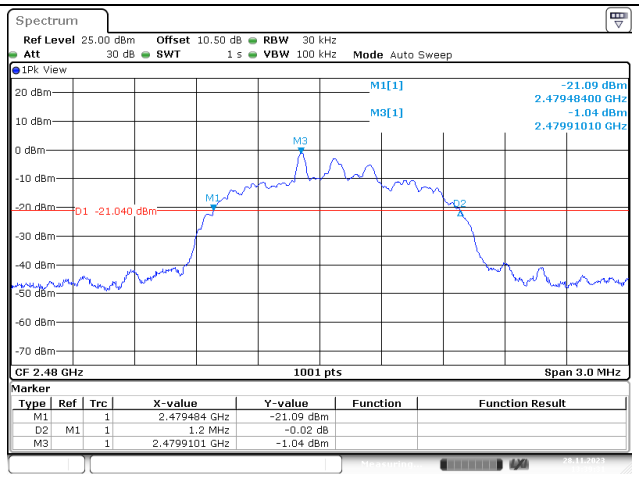
EDR Mode (8DPSK)

Lowest Channel	
Middle Channel	
Highest Channel	

Right side mirror legs:

BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

4.4 Channel Separation

Serial Number:	2DVE-2	Test Date:	2023/11/28~2023/12/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24-25	Relative Humidity: (%)	31-48	ATM Pressure: (kPa)	100.28-101.54

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Left side mirror legs:

Test Data:

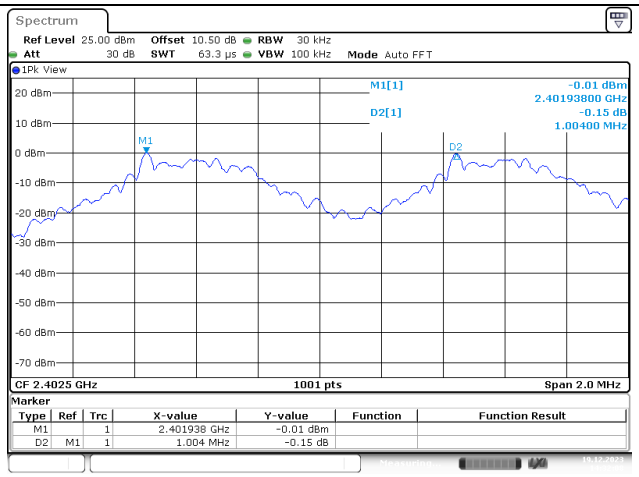
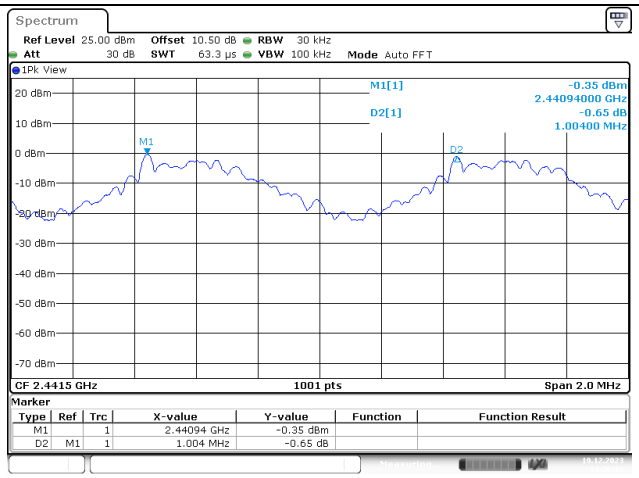
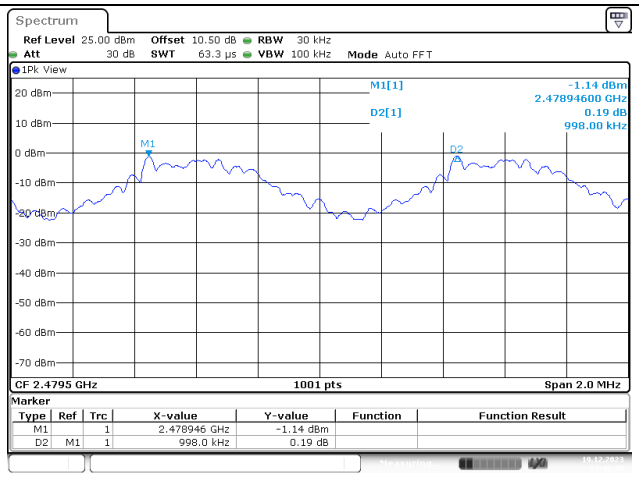
Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1.004	0.632
	2441	1.004	0.634
	2480	0.998	0.634
EDR Mode (π/4-DQPSK)	2402	1.008	0.830
	2441	1.002	0.838
	2480	0.994	0.838
EDR Mode (8DPSK)	2402	1.002	0.802
	2441	1.002	0.802
	2480	0.998	0.802

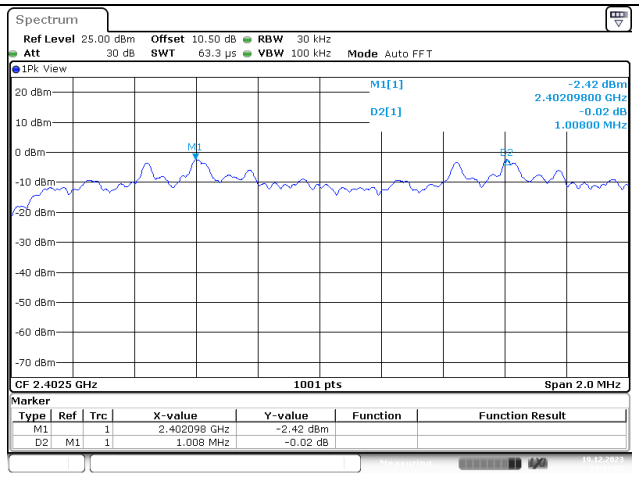
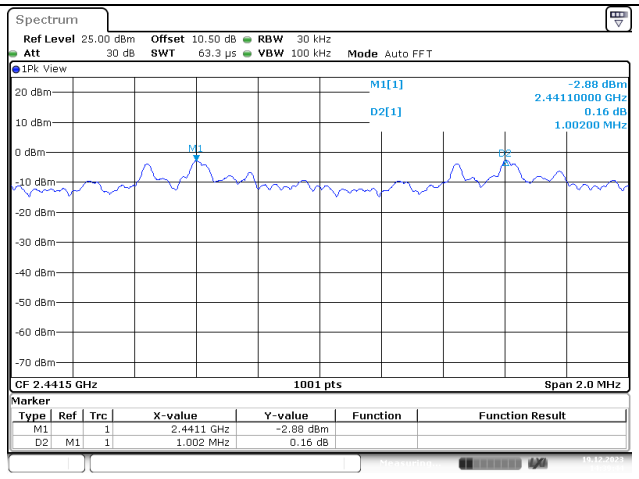
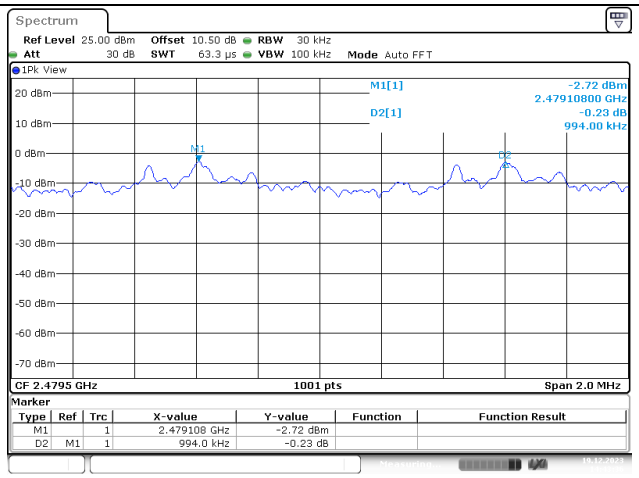
Right side mirror legs:

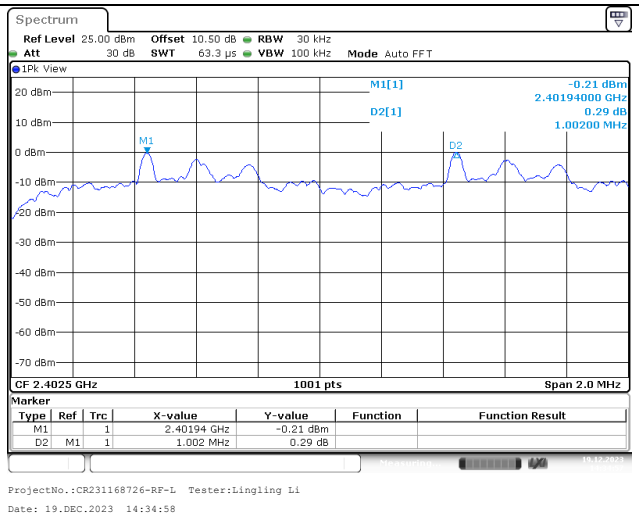
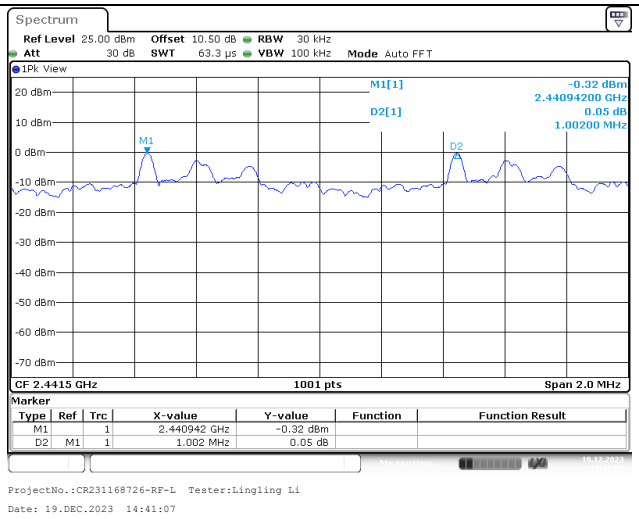
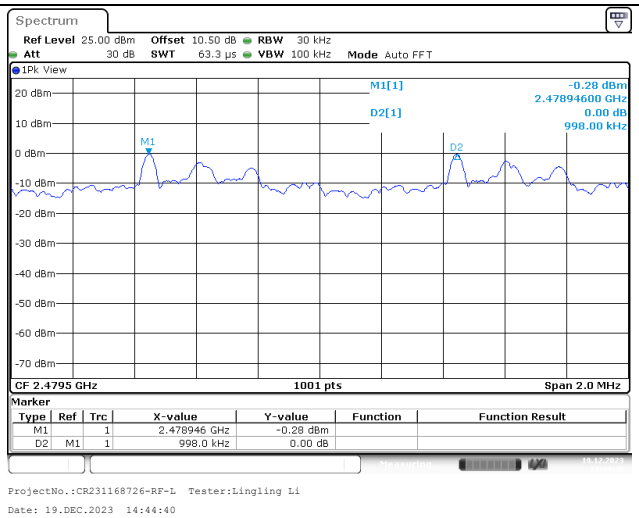
Test Data:

Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1.004	0.632
	2441	1.004	0.634
	2480	0.996	0.634
EDR Mode (π/4-DQPSK)	2402	1.004	0.828
	2441	1.002	0.826
	2480	0.994	0.826
EDR Mode (8DPSK)	2402	1.002	0.804
	2441	1.004	0.800
	2480	0.996	0.800

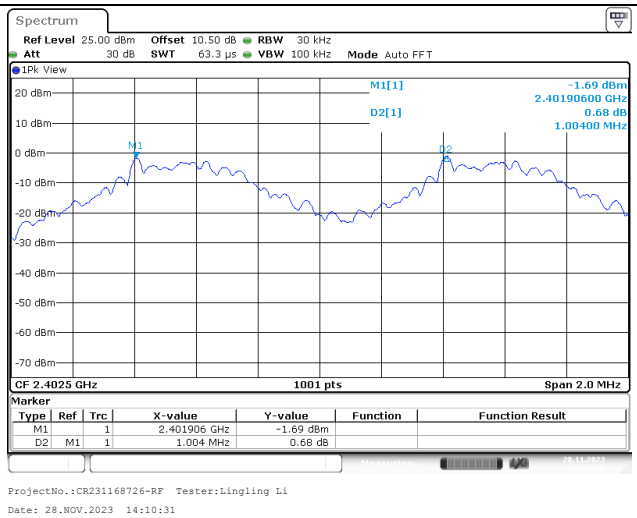
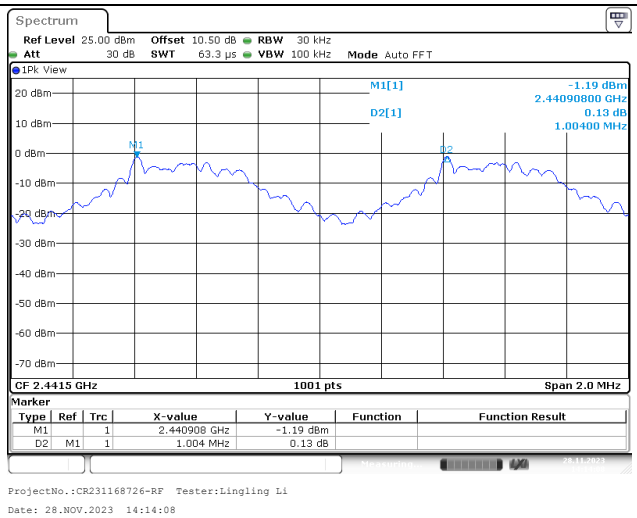
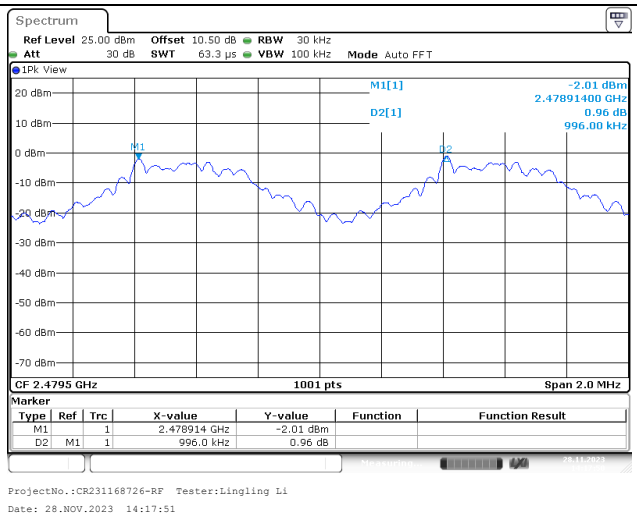
Left side mirror legs:

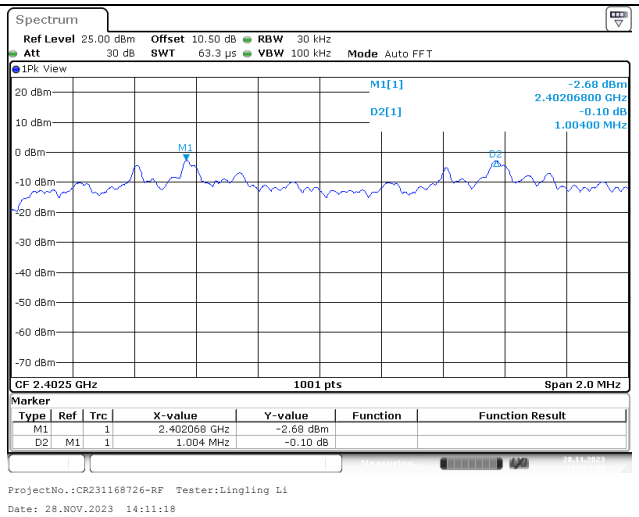
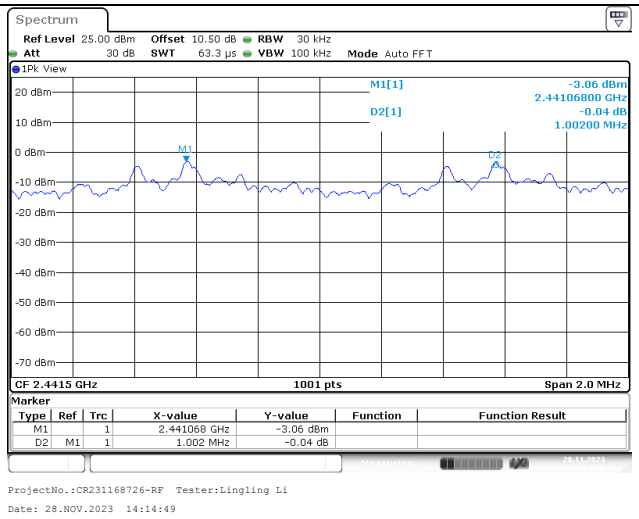
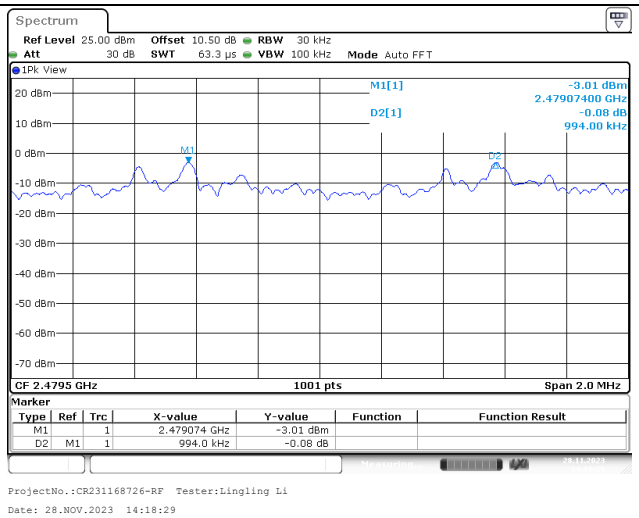
BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

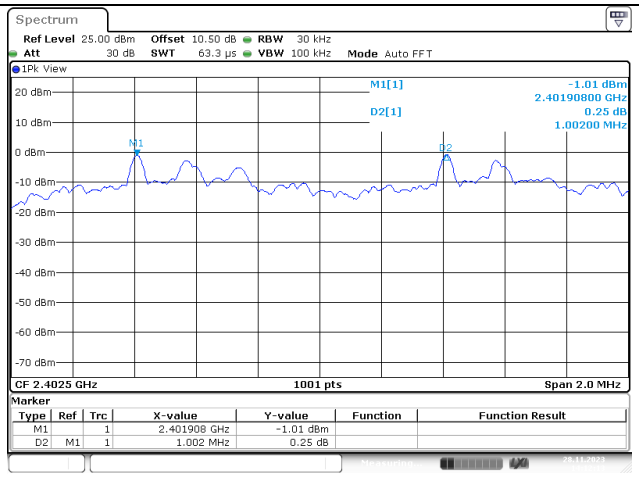
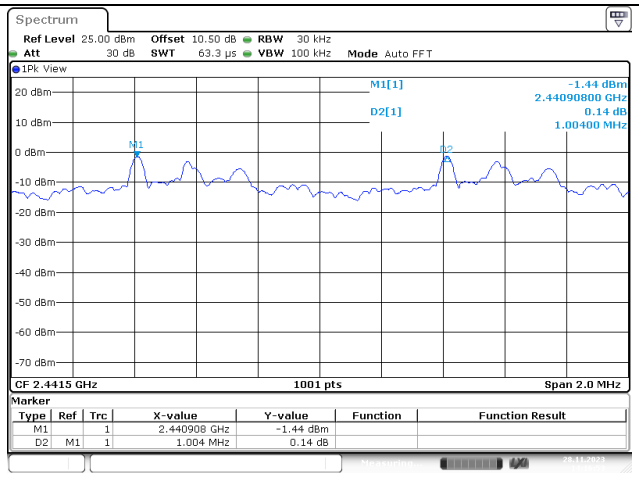
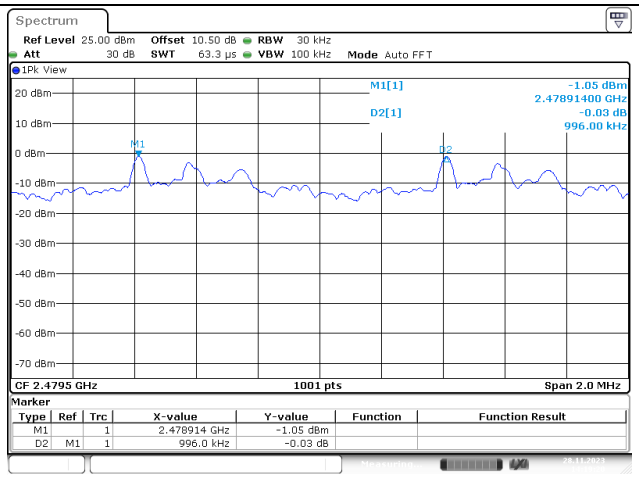
EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

Right side mirror legs:

BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

4.5 Number Of Hopping Frequency

Serial Number:	2DVE-2	Test Date:	2023/11/28~2023/12/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24-25	Relative Humidity: (%)	31-48	ATM Pressure: (kPa)	100.28-101.54

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Left side mirror legs:

Test Data:

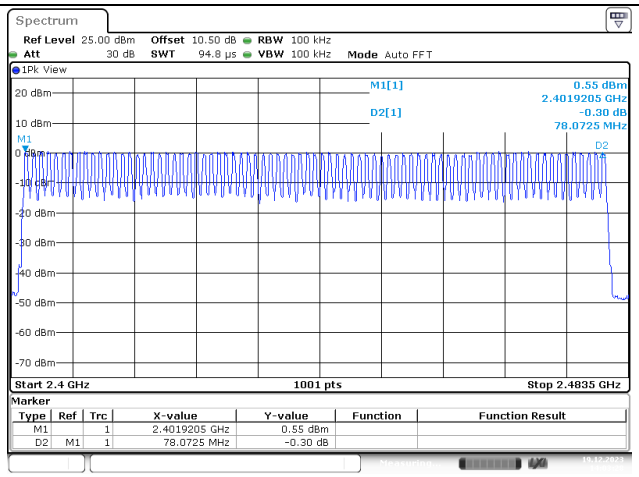
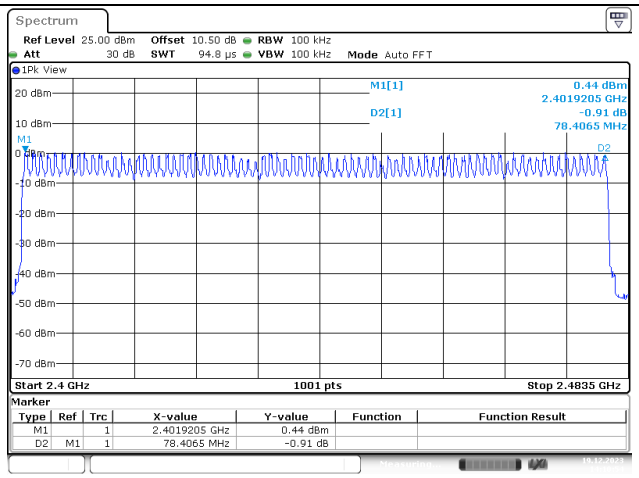
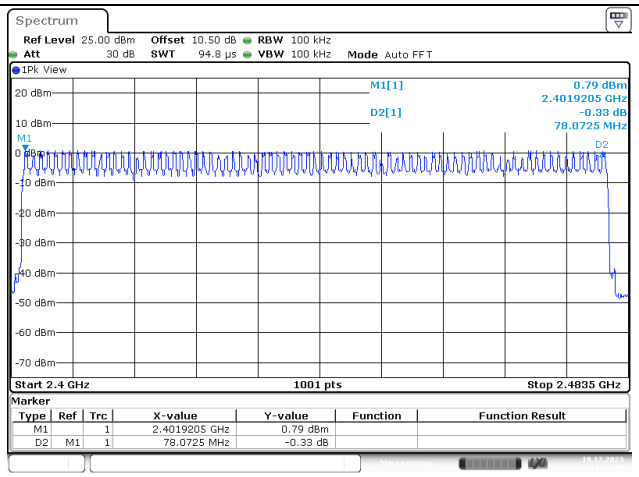
Test Modes	Frequency Range (MHz)	Number of Hopping Channel	Limits
GFSK	2400-2483.5	79	≥15
π/4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15

Right side mirror legs:

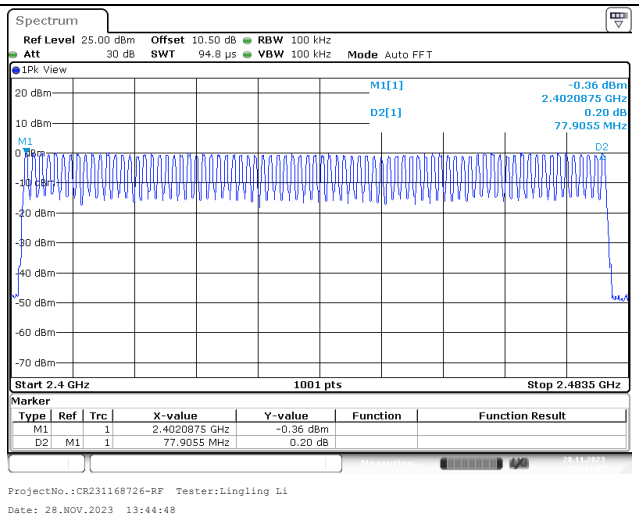
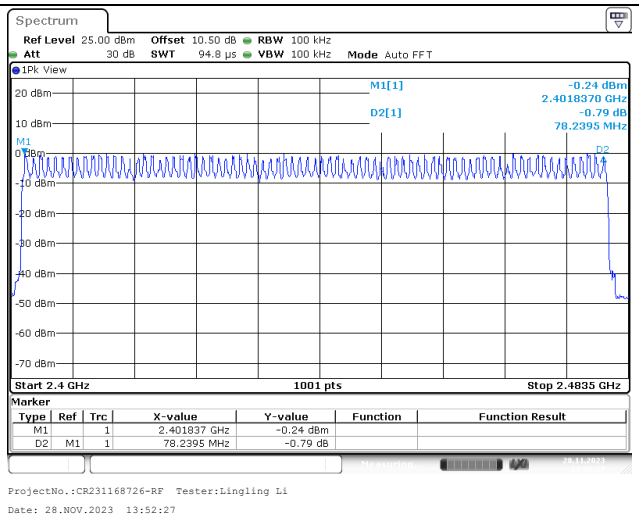
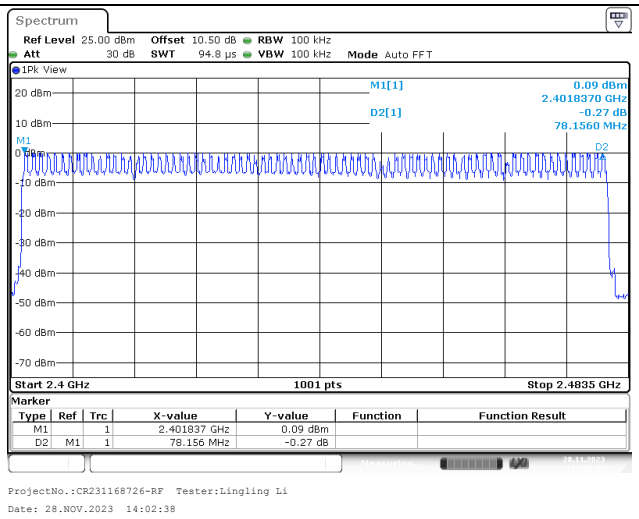
Test Data:

Test Modes	Frequency Range (MHz)	Number of Hopping Channel	Limits
GFSK	2400-2483.5	79	≥15
π/4-DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15

Left side mirror legs:

Number of Hopping Channel	
BDR Mode (GFSK)	
EDR Mode (π/4-DQPSK)	
EDR Mode (8DPSK)	

Right side mirror legs:

Number of Hopping Channel	
BDR Mode (GFSK)	
EDR Mode (π/4-DQPSK)	
EDR Mode (8DPSK)	

4.6 Time Of Occupancy (Dwell Time)

Serial Number:	2DVE-2	Test Date:	2023/11/28~2023/12/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24-25	Relative Humidity: (%)	31-48	ATM Pressure: (kPa)	100.28-101.54

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Left side mirror legs:

Test Data:

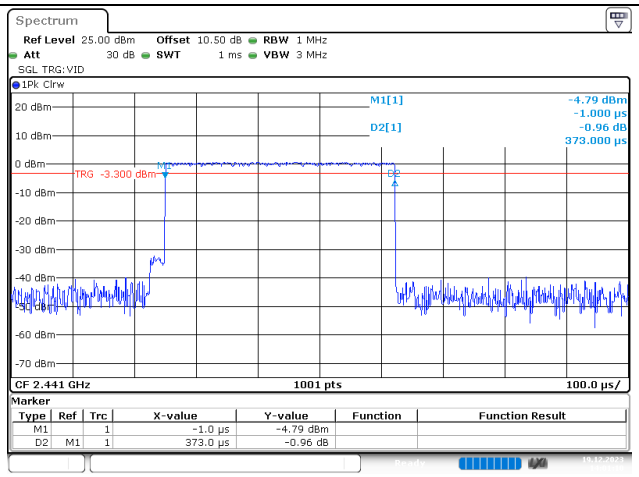
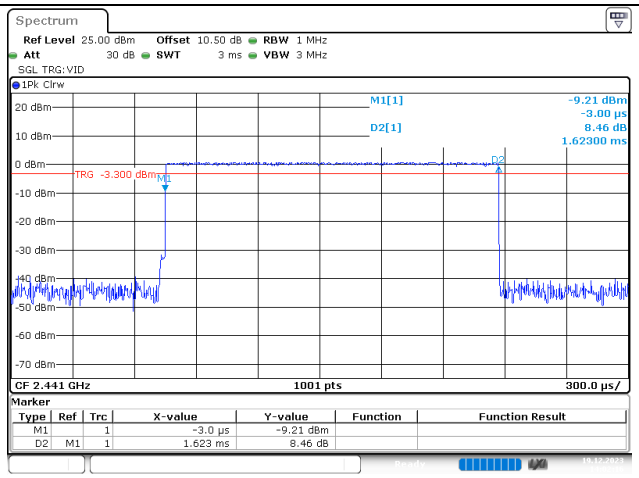
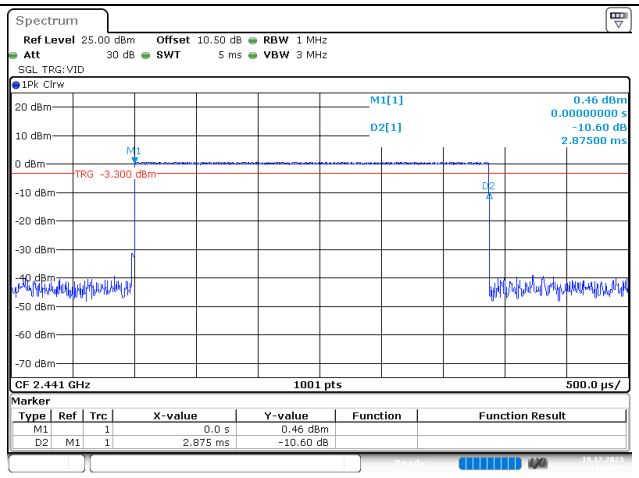
Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.373	0.119	0.400
	DH3	2441	1.623	0.260	0.400
	DH5	2441	2.875	0.307	0.400
EDR Mode (π/4-DQPSK)	2DH1	2441	0.381	0.122	0.400
	2DH3	2441	1.635	0.262	0.400
	2DH5	2441	2.885	0.308	0.400
EDR Mode (8DPSK)	3DH1	2441	0.381	0.122	0.400
	3DH3	2441	1.635	0.262	0.400
	3DH5	2441	2.885	0.308	0.400
Note: DH1:Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s DH3:Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s DH5:Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s					

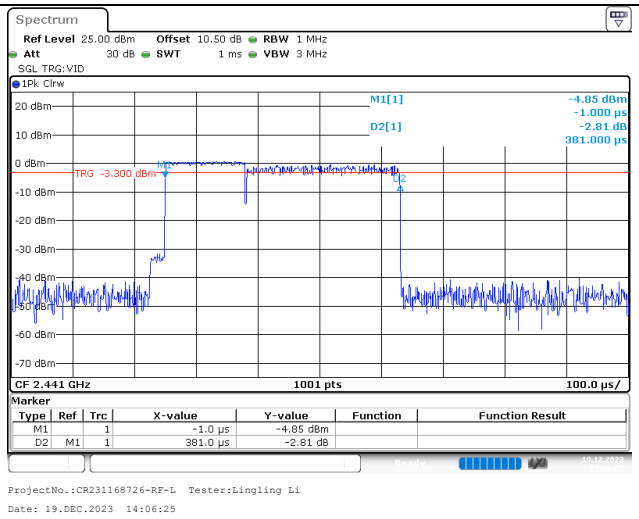
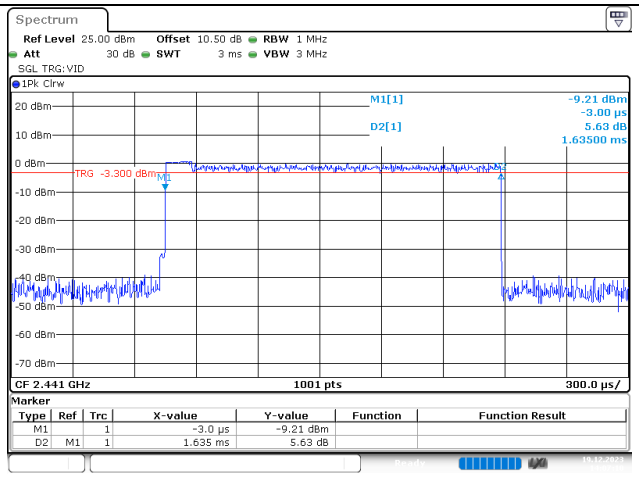
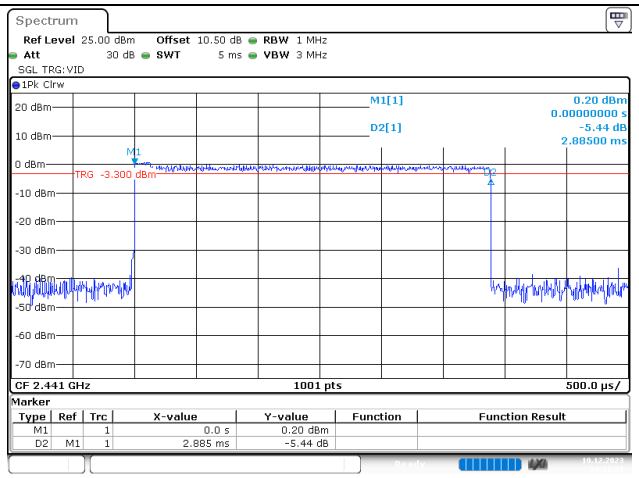
Right side mirror legs:

Test Data:

Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.373	0.119	0.400
	DH3	2441	1.623	0.260	0.400
	DH5	2441	2.875	0.307	0.400
EDR Mode (π/4-DQPSK)	2DH1	2441	0.381	0.122	0.400
	2DH3	2441	1.635	0.262	0.400
	2DH5	2441	2.885	0.308	0.400
EDR Mode (8DPSK)	3DH1	2441	0.381	0.122	0.400
	3DH3	2441	1.635	0.262	0.400
	3DH5	2441	2.890	0.308	0.400
Note: DH1:Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s DH3:Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s DH5:Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s					

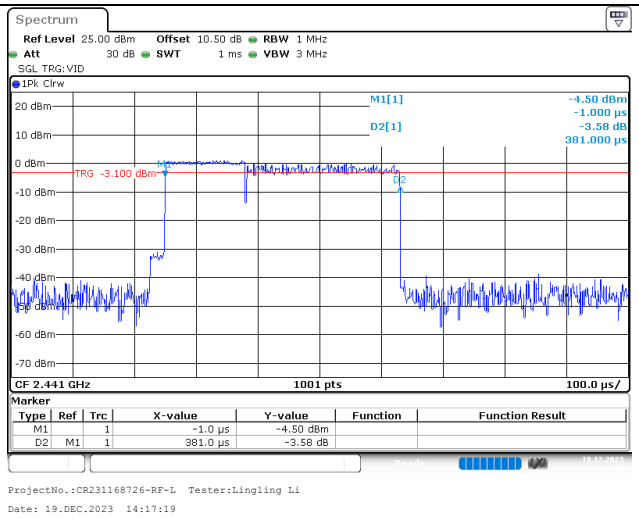
Left side mirror legs:

BDR Mode (GFSK)	
DH1:	
DH3:	
DH5:	

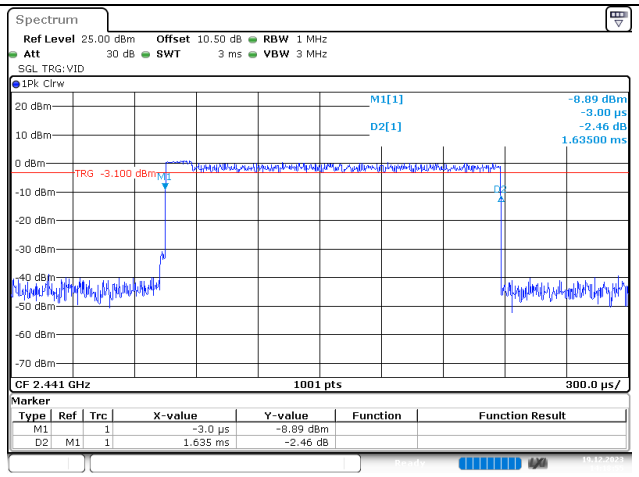
EDR Mode (π/4-DQPSK)	
2DH1:	
2DH3:	
2DH5:	

EDR Mode (8DPSK)

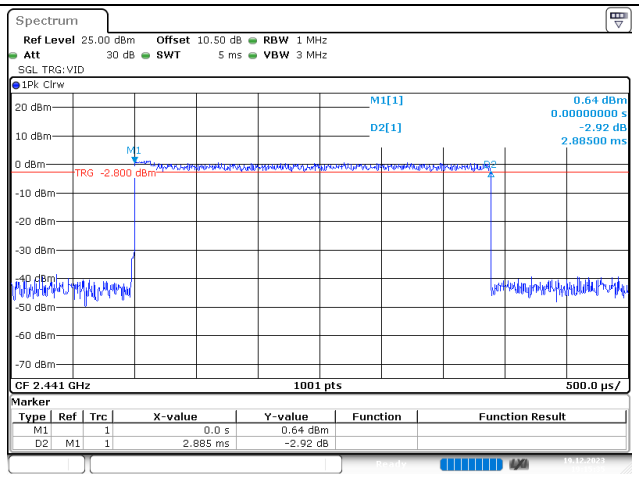
3DH1:



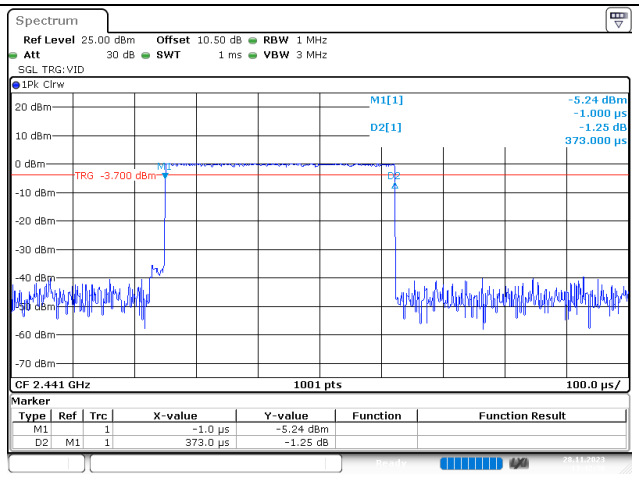
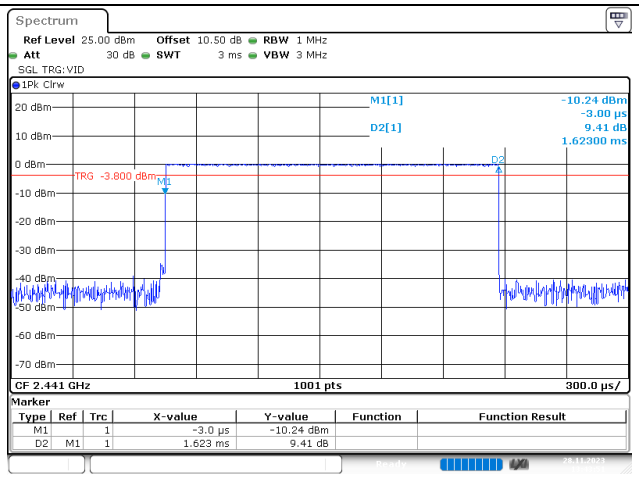
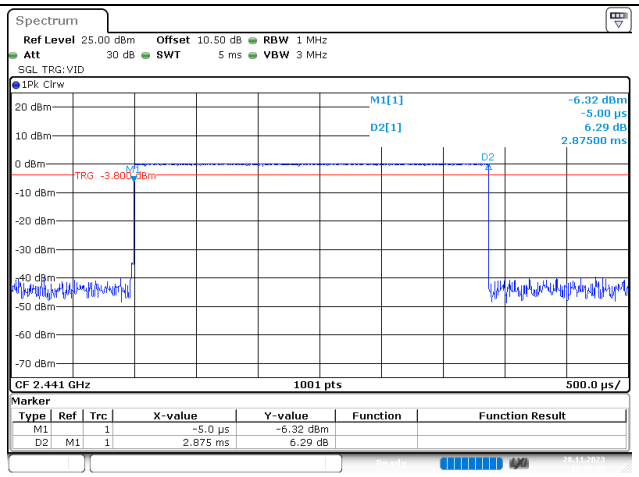
3DH3:

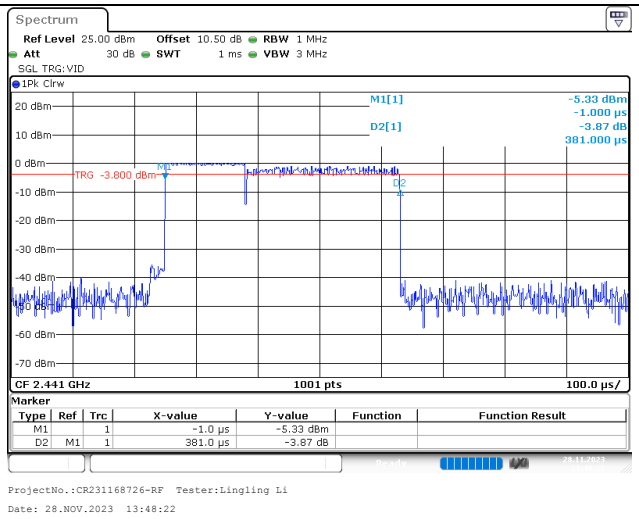
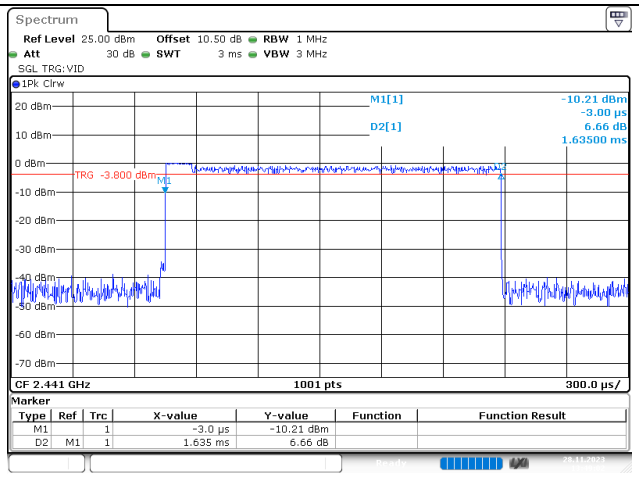
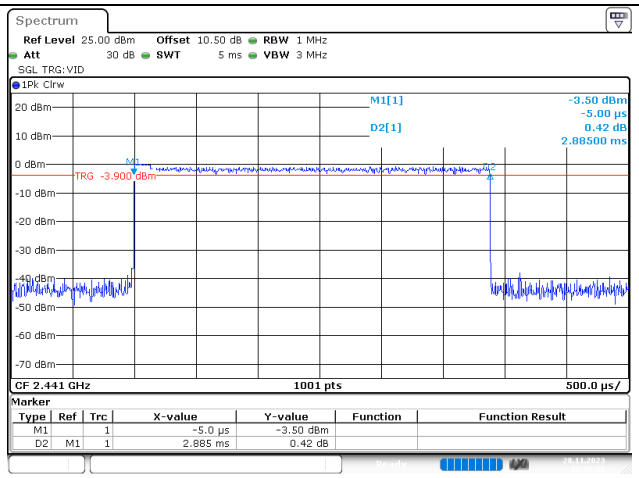


3DH5:



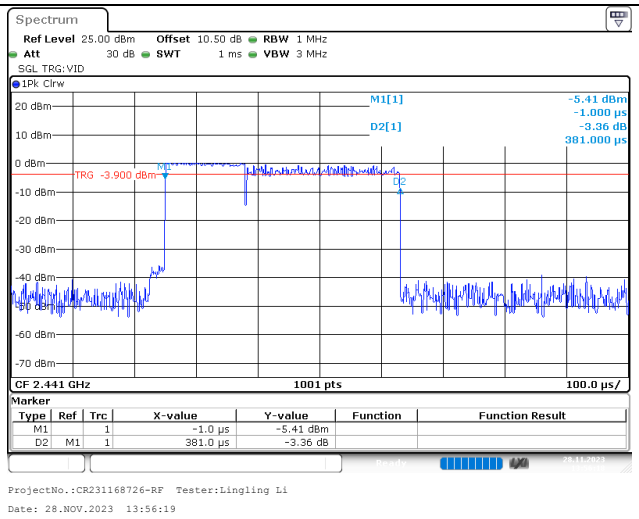
Right side mirror legs:

BDR Mode (GFSK)	
DH1:	
DH3:	
DH5:	

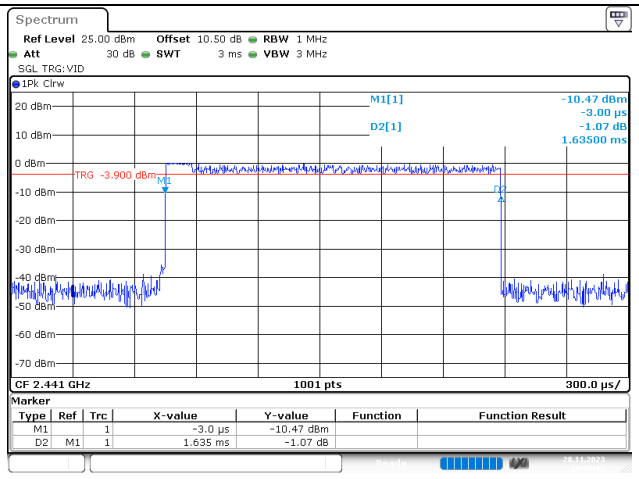
EDR Mode (π/4-DQPSK)	
2DH1:	
2DH3:	
2DH5:	

EDR Mode (8DPSK)

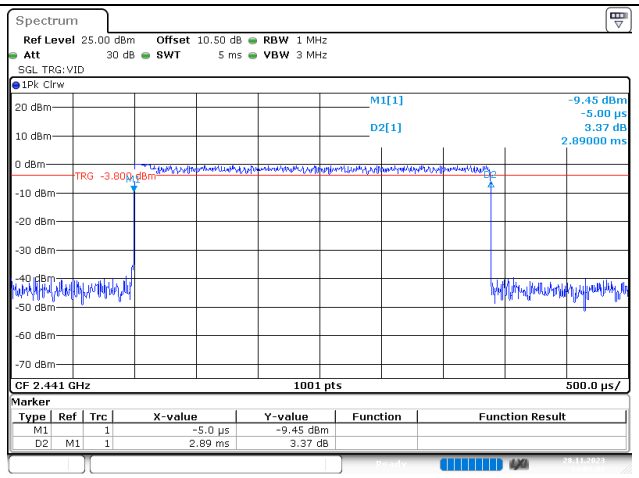
3DH1:



3DH3:



3DH5:



4.7 Maximum Conducted Output Power

Serial Number:	2DVE-2	Test Date:	2023/11/28~2023/12/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24-25	Relative Humidity: (%)	31-48	ATM Pressure: (kPa)	100.28-101.54

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Left side mirror legs:

Test Data:

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	0.96	21
	2441	0.64	21
	2480	0.74	21
EDR Mode (π/4-DQPSK)	2402	1	21
	2441	0.48	21
	2480	0.6	21
EDR Mode (8DPSK)	2402	1.03	21
	2441	0.43	21
	2480	0.67	21

Right side mirror legs:

Test Data:

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	0.32	21
	2441	0.13	21
	2480	0.2	21
EDR Mode (π/4-DQPSK)	2402	0.36	21
	2441	0.03	21
	2480	0.12	21
EDR Mode (8DPSK)	2402	0.4	21
	2441	0.02	21
	2480	0.19	21

4.8 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2DVE-2	Test Date:	2023/12/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	LingLing Li	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25	Relative Humidity: (%)	31	ATM Pressure: (kPa)	101.54

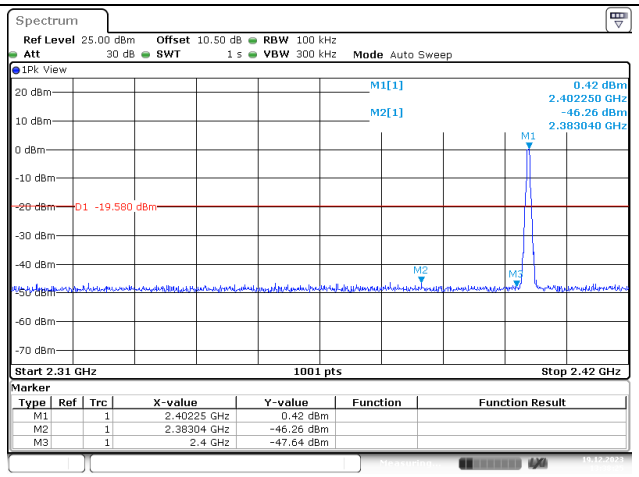
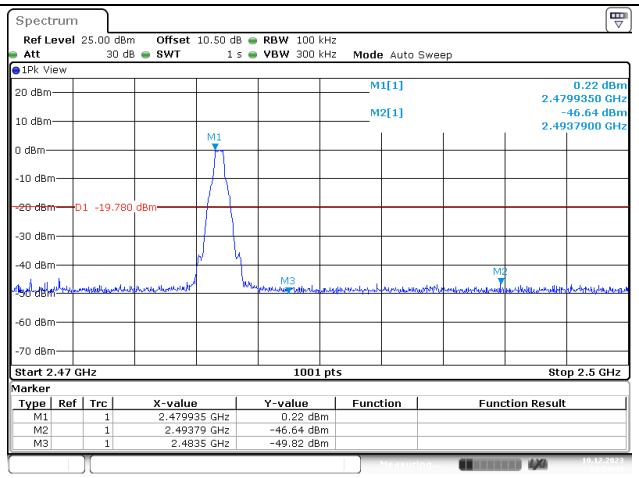
Test Equipment List and Details:

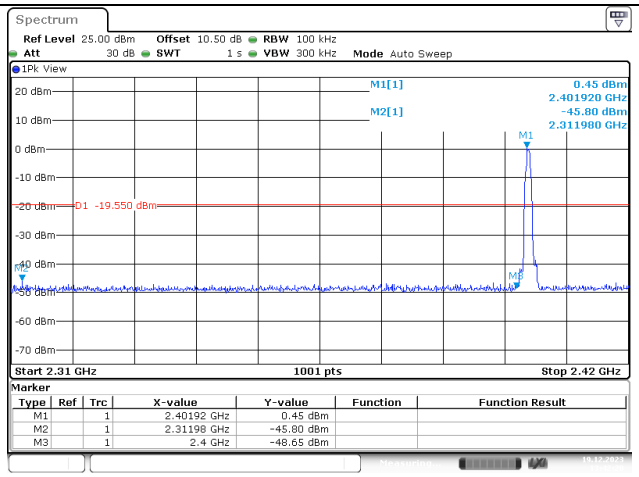
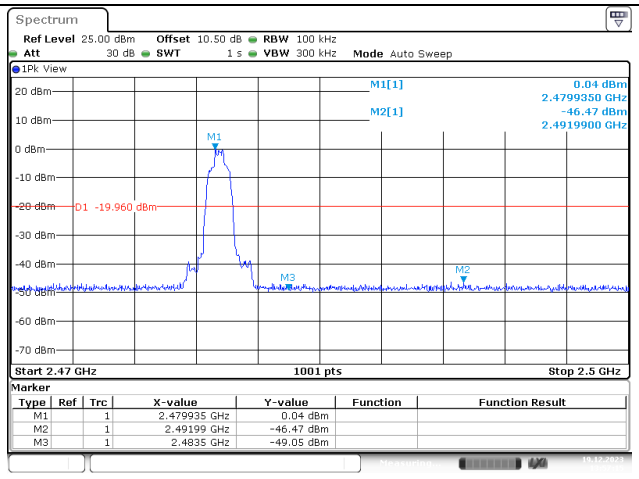
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

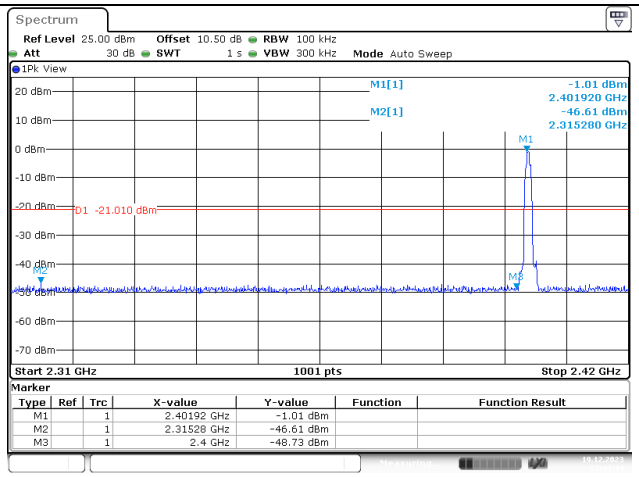
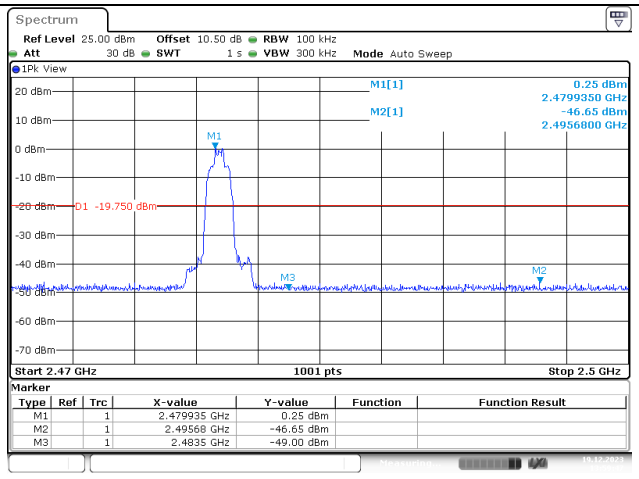
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

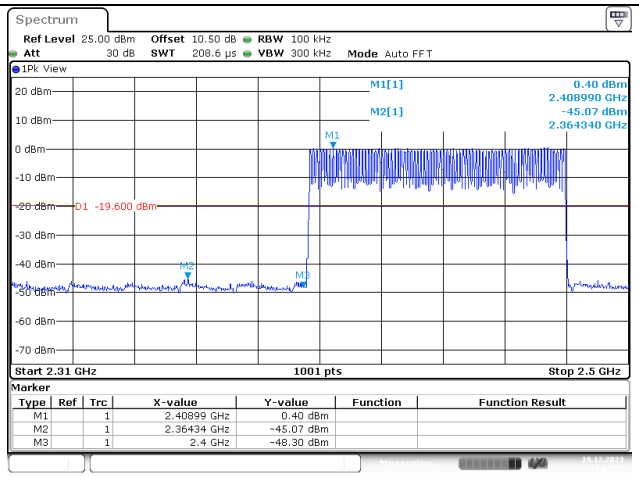
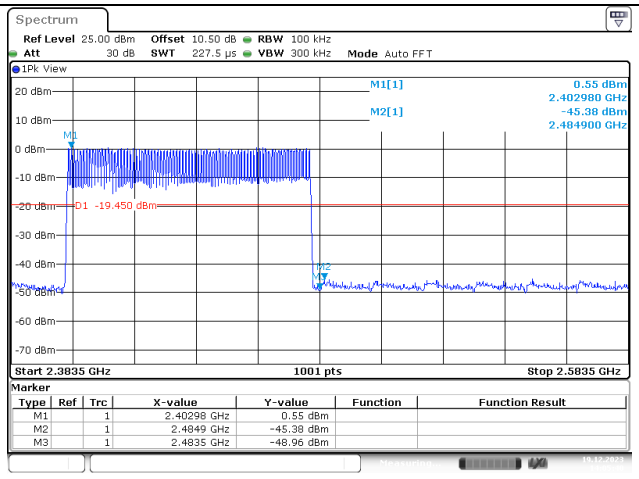
Test Data:

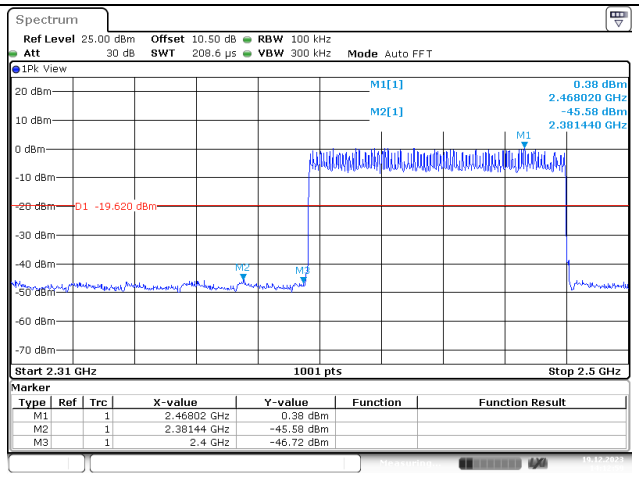
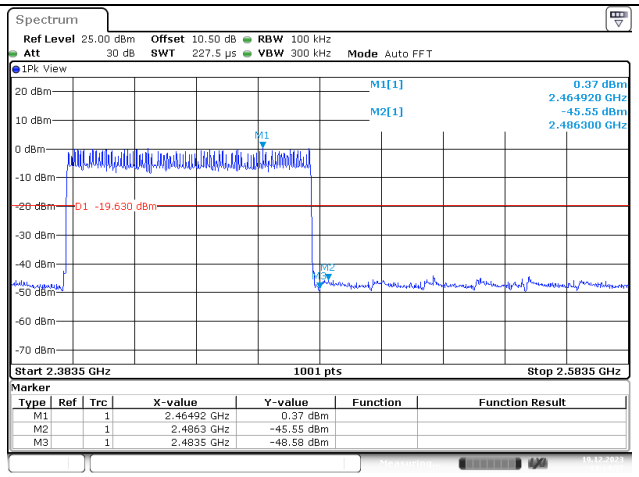
Left side mirror legs:

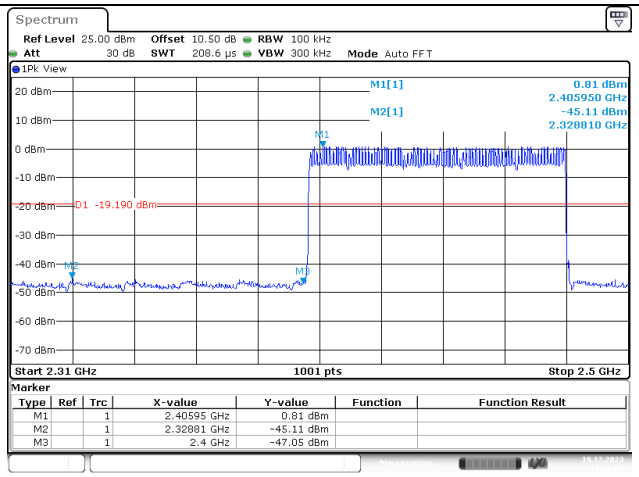
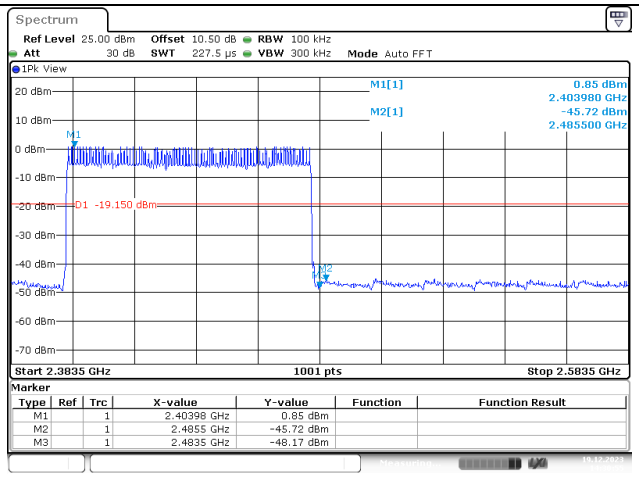
Band Edge, Single Channel	
BDR Mode (GFSK), Left	
BDR Mode (GFSK), Right	

Band Edge, Single Channel	
EDR Mode (π/4-DQPSK), Left	
EDR Mode (π/4-DQPSK), Right	

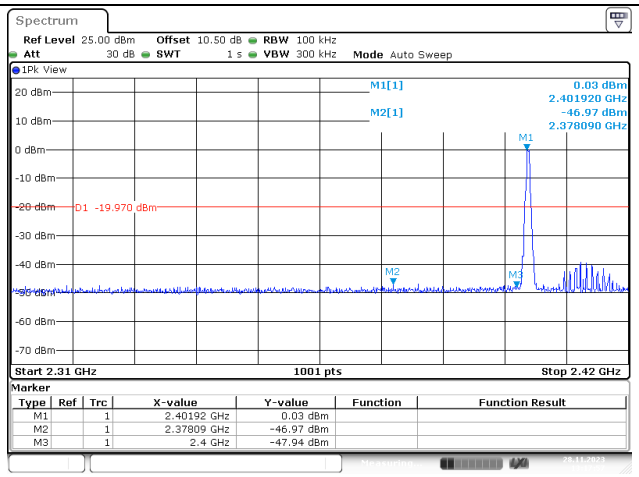
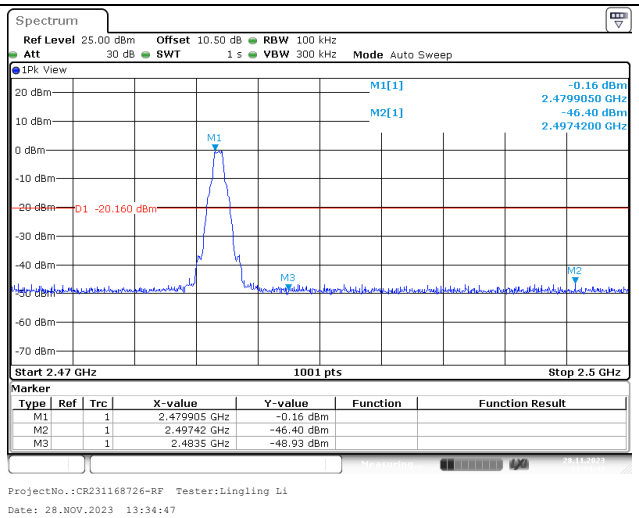
Band Edge, Single Channel	
EDR Mode (8DPSK), Left	
EDR Mode (8DPSK), Right	

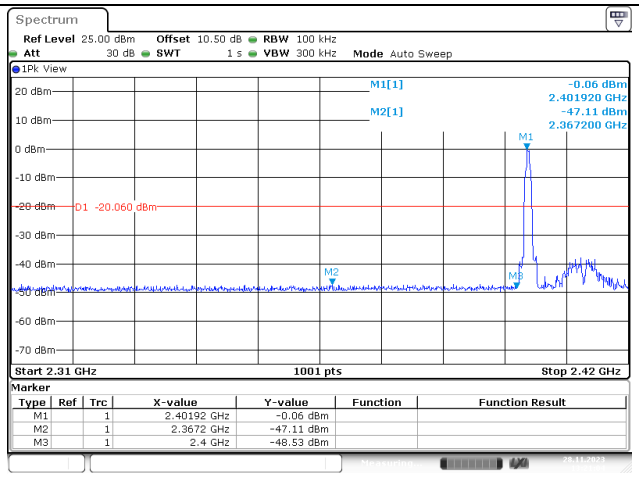
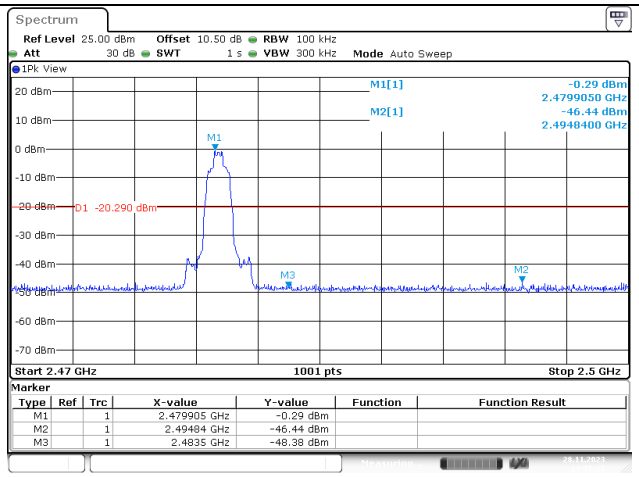
Band Edge, Hopping Channel	
BDR Mode (GFSK), Left	
BDR Mode (GFSK), Right	

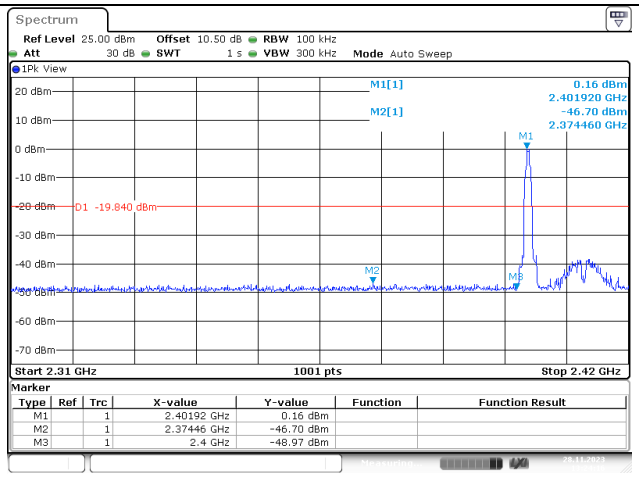
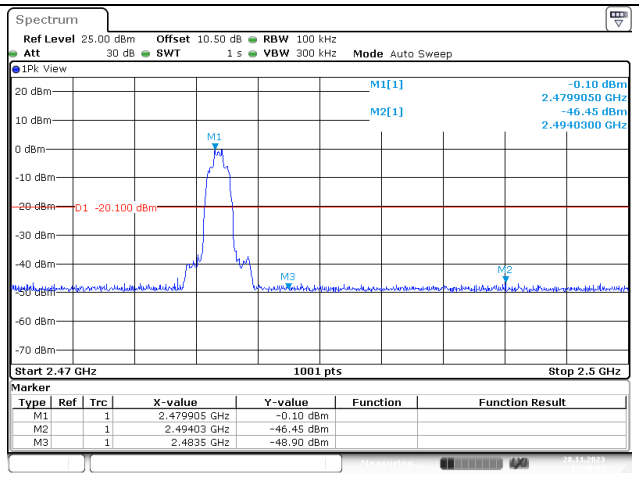
Band Edge, Hopping Channel	
EDR Mode (π/4-DQPSK), Left	
EDR Mode (π/4-DQPSK), Right	

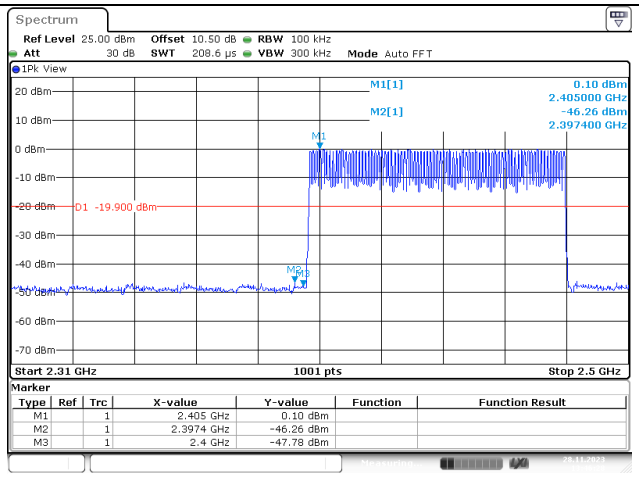
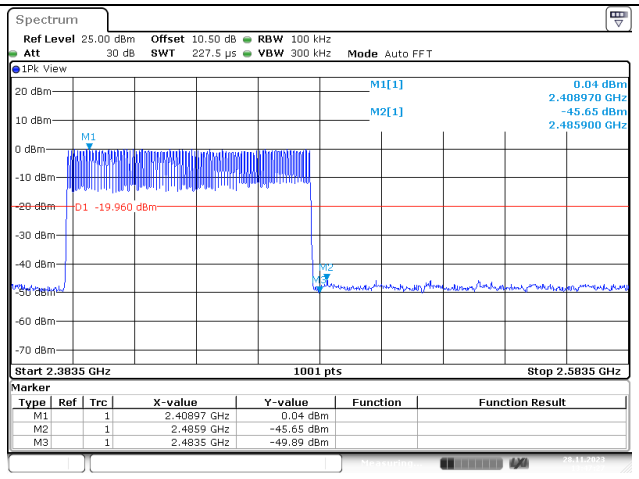
Band Edge, Hopping Channel	
EDR Mode (8DPSK), Left	
EDR Mode (8DPSK), Right	

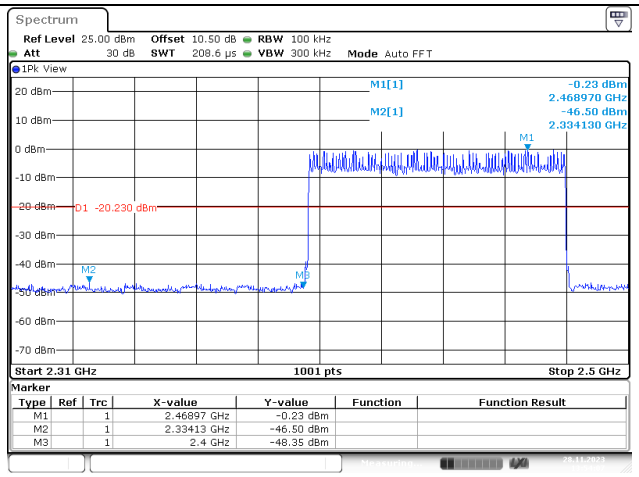
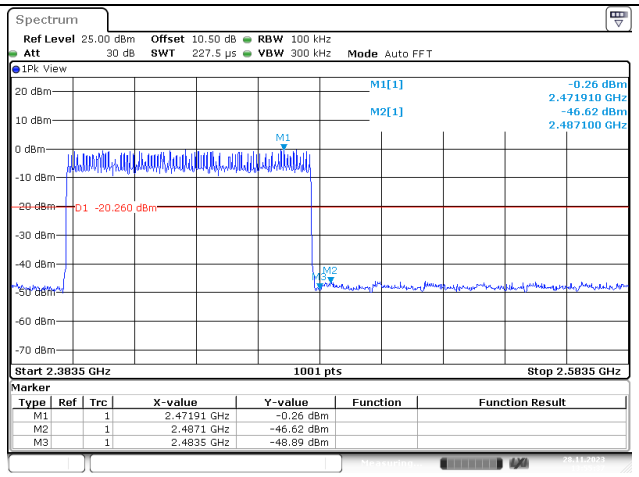
Right side mirror legs:

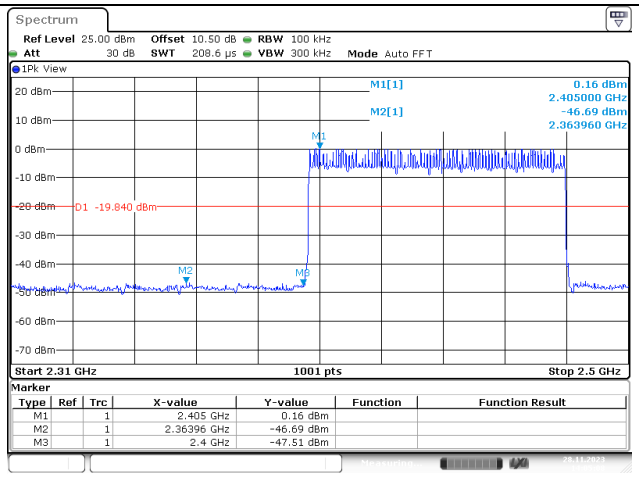
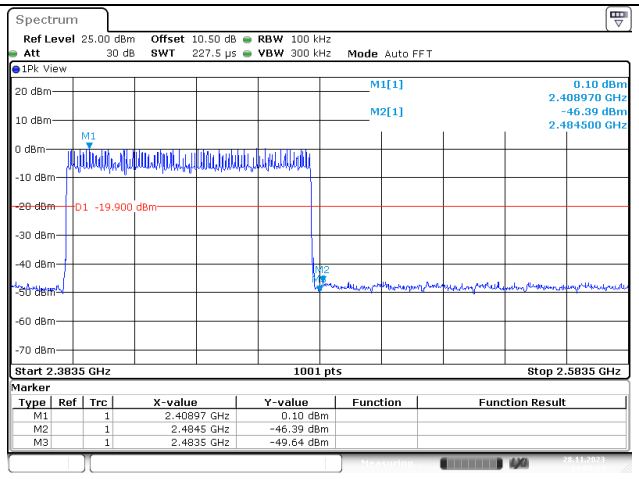
Band Edge, Single Channel	
BDR Mode (GFSK), Left	
BDR Mode (GFSK), Right	

Band Edge, Single Channel	
EDR Mode (π/4-DQPSK), Left	
EDR Mode (π/4-DQPSK), Right	

Band Edge, Single Channel	
EDR Mode (8DPSK), Left	
EDR Mode (8DPSK), Right	

Band Edge, Hopping Channel	
BDR Mode (GFSK), Left	
BDR Mode (GFSK), Right	

Band Edge, Hopping Channel	
EDR Mode (π/4-DQPSK), Left	
EDR Mode (π/4-DQPSK), Right	

Band Edge, Hopping Channel	
EDR Mode (8DPSK), Left	
EDR Mode (8DPSK), Right	

5. RF EXPOSURE EVALUATION

5.1 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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(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.

5.2 Measurement Result

Left side mirror legs:
The max conducted power including tune-up tolerance is 2dBm (1.58mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=1.58/5*(√2.480) = 0.50< 3.0

Right side mirror legs:
The max conducted power including tune-up tolerance is 1dBm (1.26mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=1.26/5*(√2.480) = 0.50< 3.0

Two legs transmit simultaneously max conducted power including tune-up tolerance is 5dBm(3.16mW)
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=3.16/5*(√2.480) =0.995< 3.0

Result: Compliant. The stand-alone SAR evaluation is not necessary.

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231168726-EXP EUT EXTERNAL PHOTOGRAPHS and CR231168726-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231168726-00B-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====