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

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **INFINIX MOBILITY LIMITED**

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT, Hong Kong

FCC ID: **2AIZN-YYS-X6853**

Product Name: **Mobile Phone**

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: **CR231061510-00B**

Date Of Issue: **2023/12/4**

Reviewed By: **Calvin Chen**
Title: RF Engineer

Approved By: **Sun Zhong**
Title: Manager

Test Laboratory: **China Certification ICT Co., Ltd (Dongguan)**
No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

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

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

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

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk "★".

CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061510-00B	Original Report	2023/12/4

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone
Trade Name:	Infinix
EUT Model:	X6853
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	5.45dBm (Ant 0) -0.46dBm (Ant 1)
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK
Rated Input Voltage:	DC 5-11V from adapter or DC 3.91V from battery
Serial Number:	RF:2CIM-1 RE/CE:2CIM-5(Normal),2CIM-6(Lighting)
EUT Received Date:	2023/10/18
EUT Received Status:	Good
Note: The EUT has two version, a normal version and a lighting version, the two version was electrical identical. Please refer to the declaration letter for more detail, which was provided by manufacturer. All tests were performed with normal version, except Radiated Emission test (9kHz-1GHz) and Conducted Emissions test with all versions.	

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	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
ANT 0	Integral	50	2.4~2.5GHz	-4.12
ANT 1	Integral	50	2.4~2.5GHz	-3.37

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	S/N
Adapter 1	Infinix	U450XSB	Input: 100-240V~50/60Hz 1.8A Output: 5.0V 3.0A 15W or 5.0-10.0V 4.5A or 11.0V 4.1A 45.0W MAX	AH07019153927
Adapter 2	Infinix	U450XSB	Input: 100-240V~50/60Hz 1.8A Output: 5.0V 3.0A 15W or 5.0-10.0V 4.5A or 11.0V 4.1A 45.0W MAX	KX07019453A12

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:	Engineering mode

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	7	7	7
π/4-DQPSK	7	7	7
8DPSK	7	7	7

Note: The device only support SISO mode.

1.2.2 Support Equipment List and Details

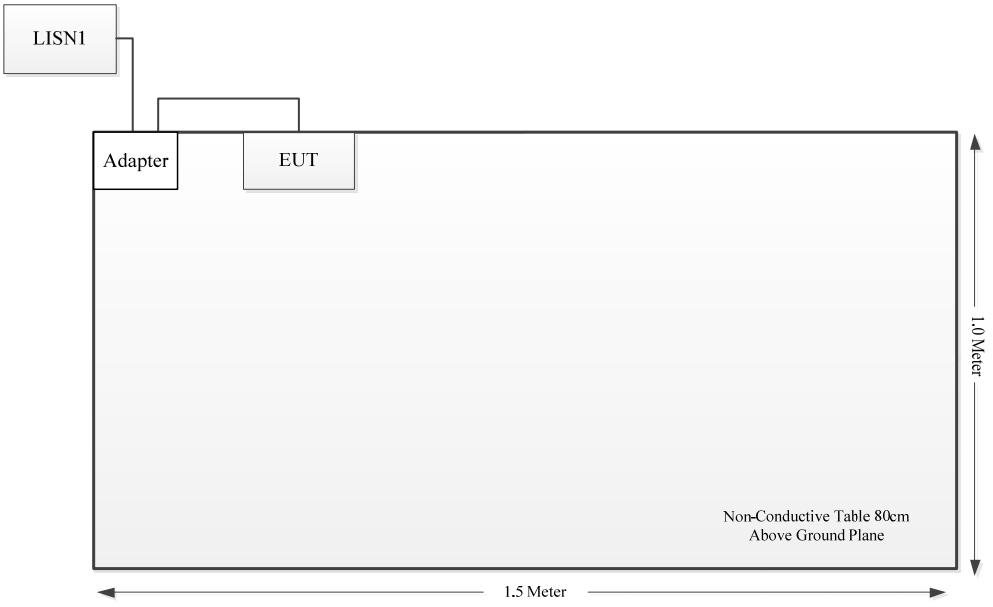
Manufacturer	Description	Model	Serial Number
Infinix	Adapter	U450XSB	AH07019153927
Infinix	Adapter 2	U450XSB	KX07019453A12

1.2.3 Support Cable List and Details

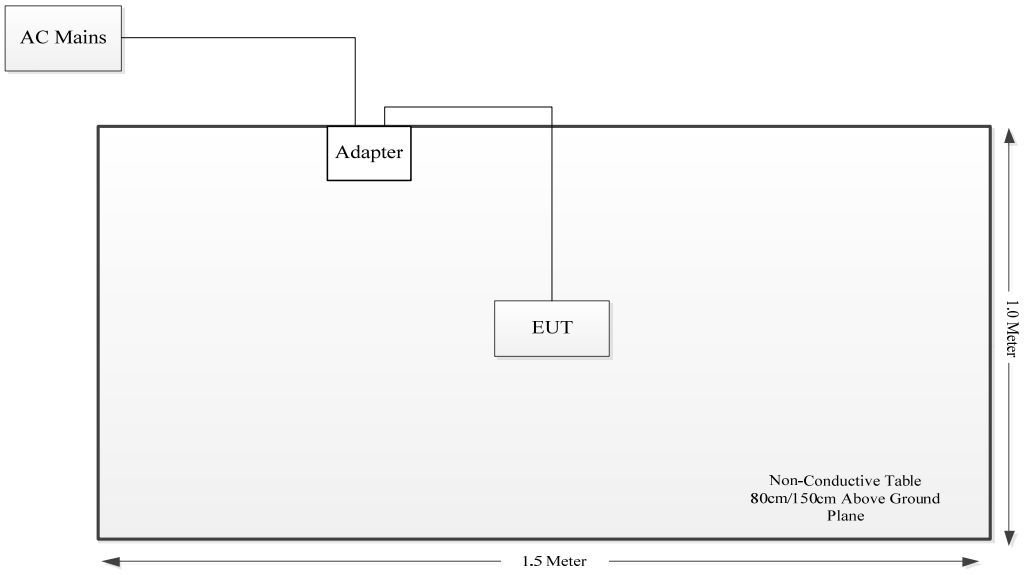
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	NO	NO	0.8	Adapter	EUT
Power Cable	NO	NO	0.8	Adapter 2	EUT

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



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	9k~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	Compliant
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
FCC§15.247 (i) & §1.1307 & §2.1093	RF Exposure Evaluation	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:

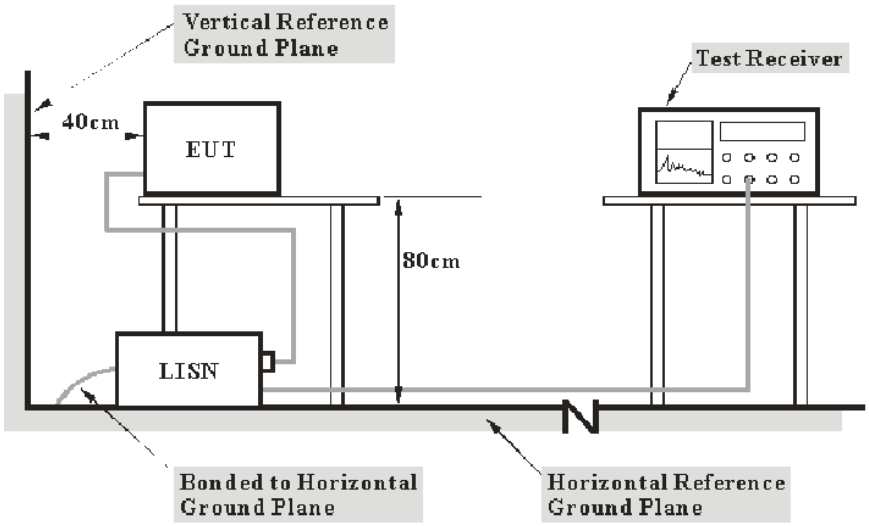
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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

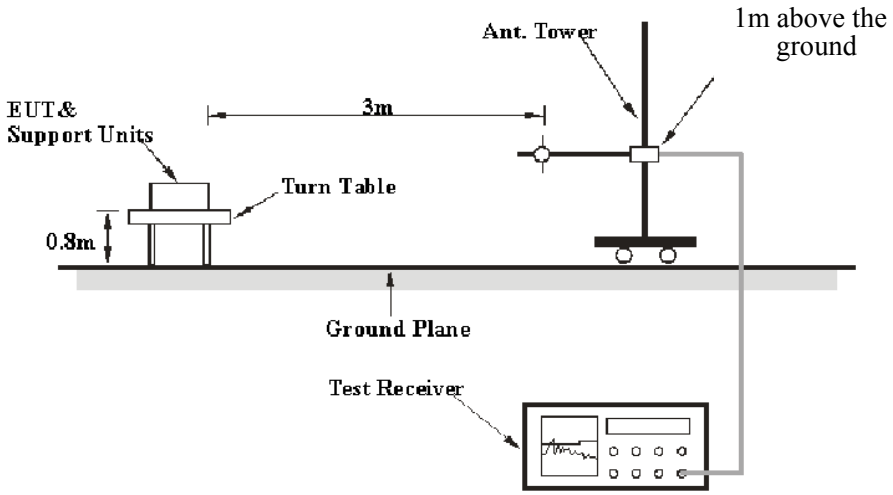
3.2.1 Applicable Standard

FCC §15.247 (d);

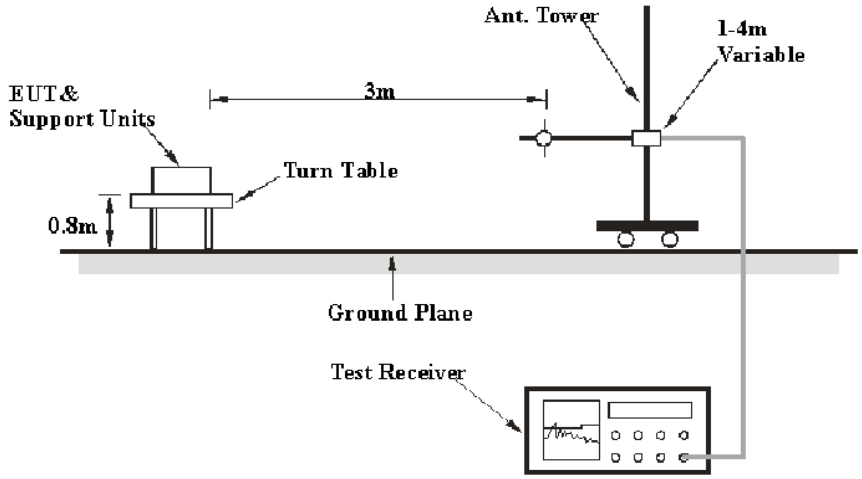
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

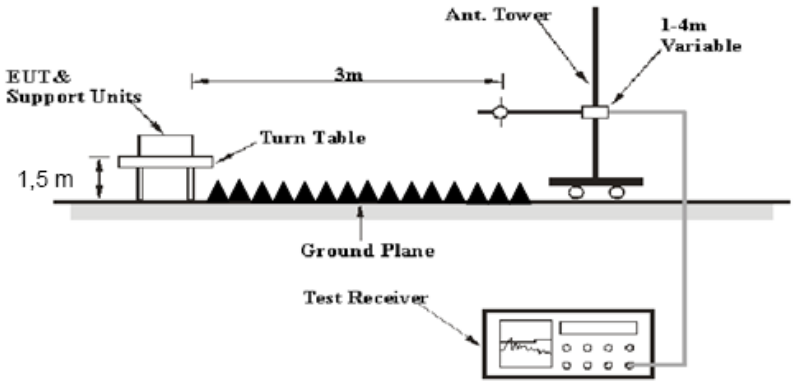
9 kHz-30MHz:



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

The system was investigated from 9 kHz to 25 GHz.

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	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK
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.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

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

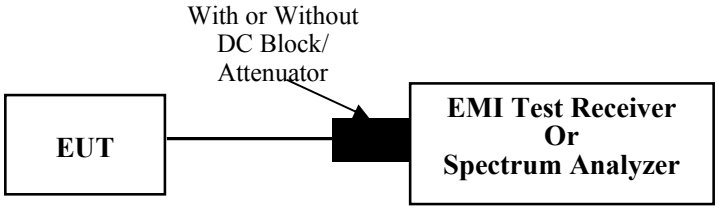
3.3 20 dB Emission Bandwidth

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).

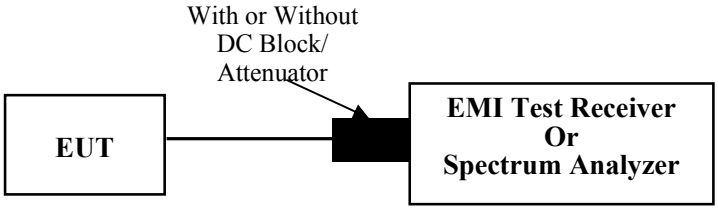
3.4 Channel Separation

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.

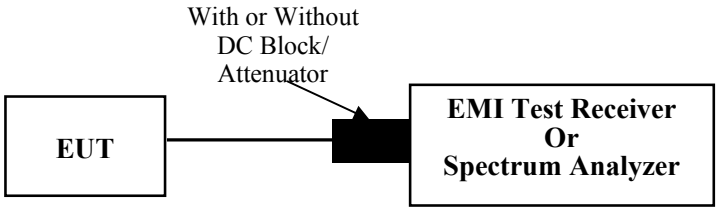
3.5 Number Of Hopping Frequency

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

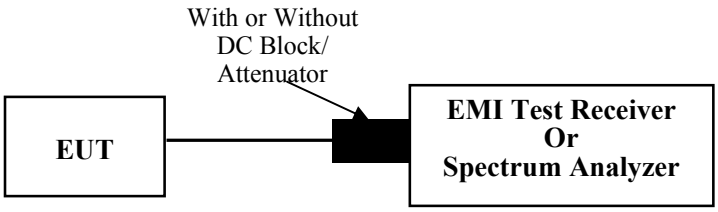
It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

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.

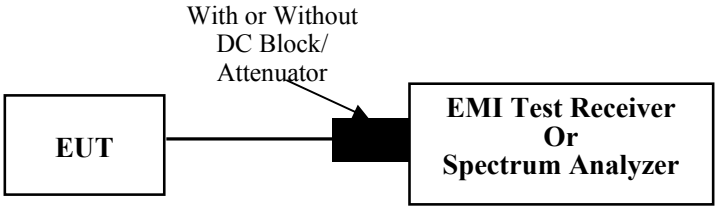
3.7 Maximum Conducted Output Power

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.

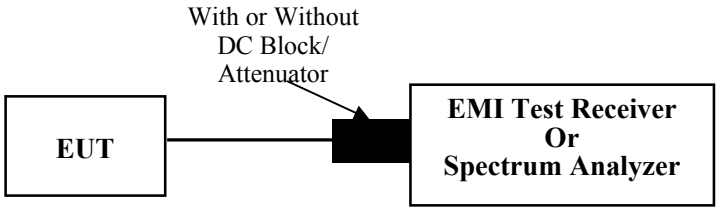
3.8 100 kHz Bandwidth Of Frequency Band Edge

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

Serial Number:	2CIM-5, 2CIM-6	Test Date:	2023/11/22~2023/12/22
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode ANT 0 BDR mode(GFSK) middle channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	22.9~25.6	Relative Humidity: (%)	22~49	ATM Pressure: (kPa)	101~102.6

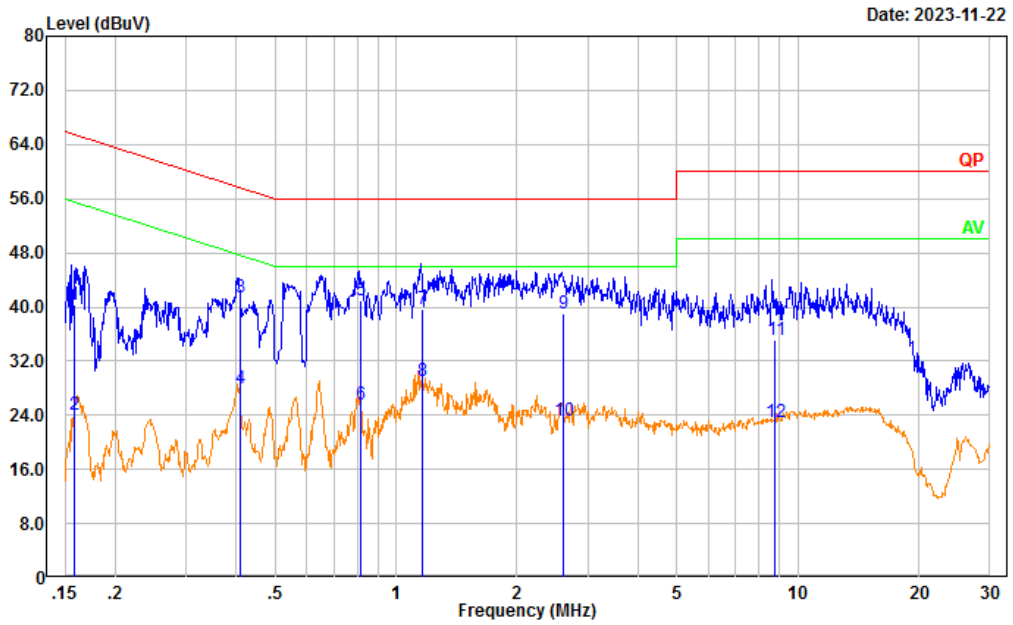
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (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).*

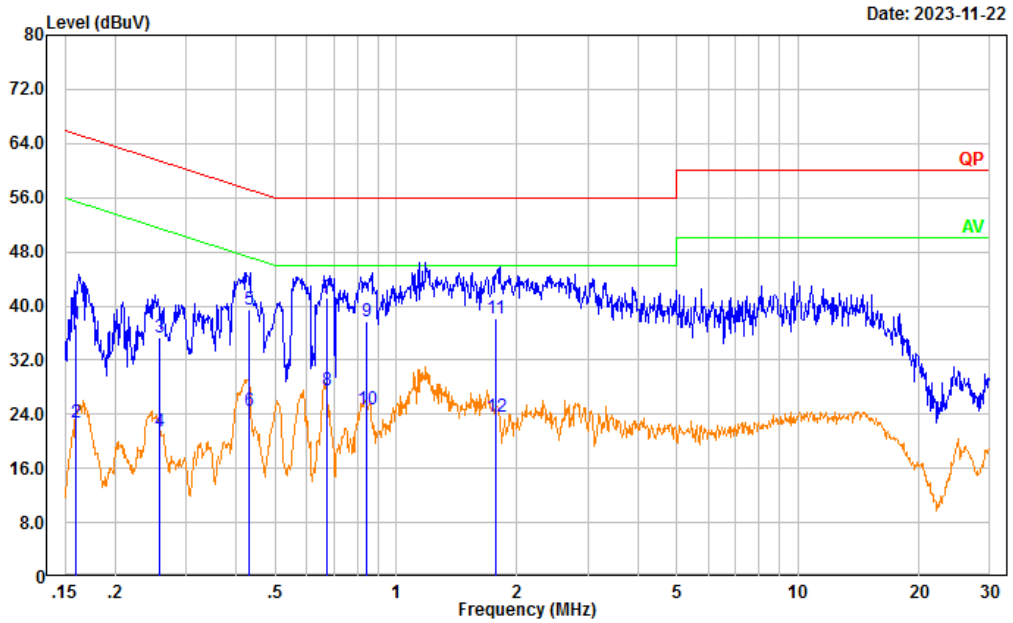
Lighting adapter 1:

Project No.: CR231061510-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.158	30.71	9.61	40.32	65.54	25.22	QP
2	0.158	14.53	9.61	24.14	55.54	31.40	Average
3	0.410	31.74	9.61	41.35	57.64	16.29	QP
4	0.410	18.42	9.61	28.03	47.64	19.61	Average
5	0.818	31.44	9.62	41.06	56.00	14.94	QP
6	0.818	16.04	9.62	25.66	46.00	20.34	Average
7	1.164	30.15	9.62	39.77	56.00	16.23	QP
8	1.164	19.39	9.62	29.01	46.00	16.99	Average
9	2.608	29.32	9.64	38.96	56.00	17.04	QP
10	2.608	13.60	9.64	23.24	46.00	22.76	Average
11	8.779	25.55	9.67	35.22	60.00	24.78	QP
12	8.779	13.21	9.67	22.88	50.00	27.12	Average

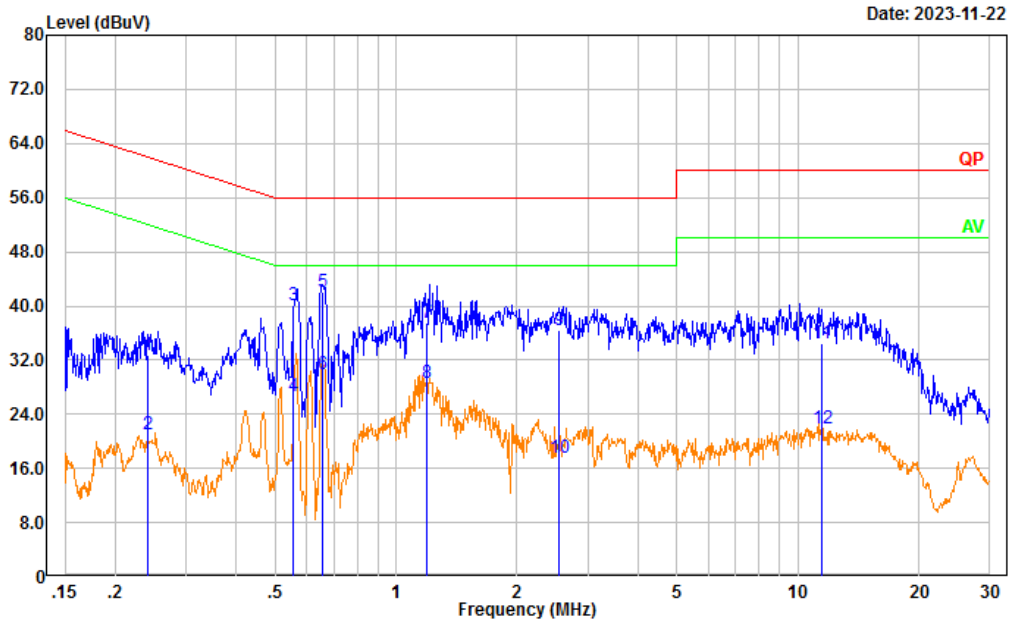
Project No.: CR231061510-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.159	27.75	9.61	37.36	65.51	28.15	QP
2	0.159	13.21	9.61	22.82	55.51	32.69	Average
3	0.259	25.81	9.61	35.42	61.47	26.05	QP
4	0.259	11.82	9.61	21.43	51.47	30.04	Average
5	0.431	29.84	9.61	39.45	57.23	17.78	QP
6	0.431	14.94	9.61	24.55	47.23	22.68	Average
7	0.673	31.47	9.62	41.09	56.00	14.91	QP
8	0.673	18.01	9.62	27.63	46.00	18.37	Average
9	0.847	28.08	9.62	37.70	56.00	18.30	QP
10	0.847	15.14	9.62	24.76	46.00	21.24	Average
11	1.765	28.52	9.63	38.15	56.00	17.85	QP
12	1.765	14.10	9.63	23.73	46.00	22.27	Average

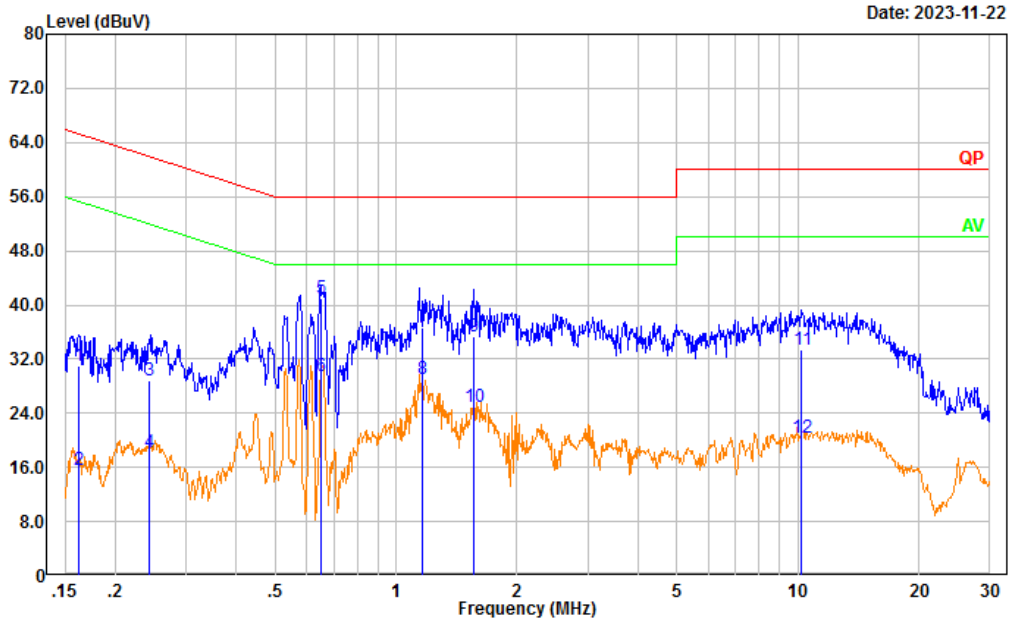
Normal adapter 1:

Project No.: CR231061510-RF
Tester: David Huang
Port: Line
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.241	23.08	9.61	32.69	62.04	29.35	QP
2	0.241	11.48	9.61	21.09	52.04	30.95	Average
3	0.554	30.51	9.62	40.13	56.00	15.87	QP
4	0.554	17.08	9.62	26.70	46.00	19.30	Average
5	0.658	32.39	9.62	42.01	56.00	13.99	QP
6	0.658	20.40	9.62	30.02	46.00	15.98	Average
7	1.191	27.89	9.62	37.51	56.00	18.49	QP
8	1.191	19.10	9.62	28.72	46.00	17.28	Average
9	2.544	26.89	9.64	36.53	56.00	19.47	QP
10	2.544	7.92	9.64	17.56	46.00	28.44	Average
11	11.467	24.80	9.67	34.47	60.00	25.53	QP
12	11.467	12.12	9.67	21.79	50.00	28.21	Average

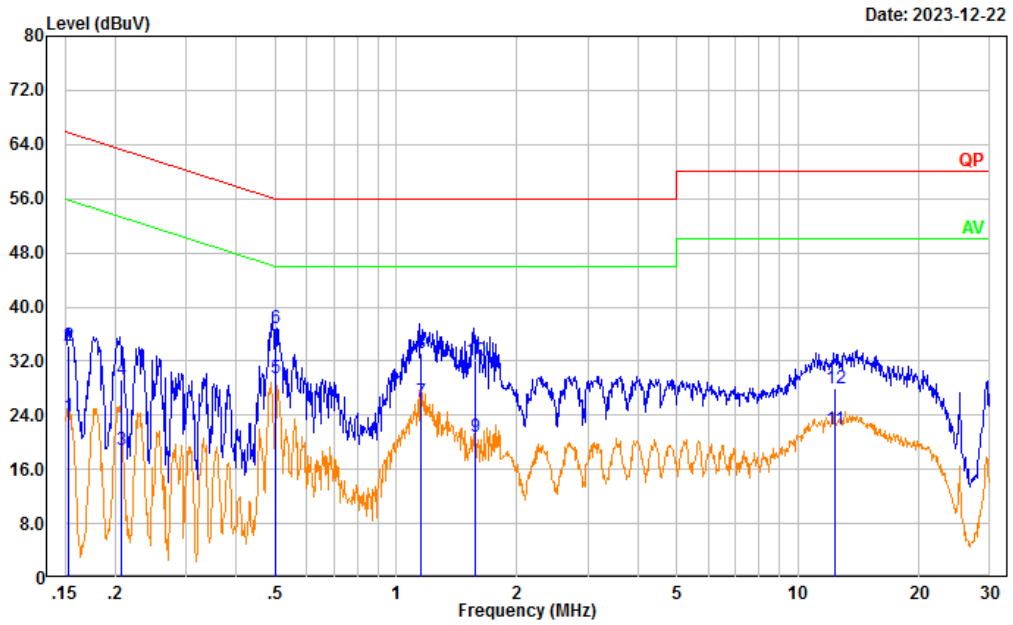
Project No.: CR231061510-RF
Tester: David Huang
Port: neutral
Note: Transmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.163	21.47	9.61	31.08	65.32	34.24	QP
2	0.163	6.10	9.61	15.71	55.32	39.61	Average
3	0.244	19.22	9.61	28.83	61.96	33.13	QP
4	0.244	8.52	9.61	18.13	51.96	33.83	Average
5	0.651	31.37	9.62	40.99	56.00	15.01	QP
6	0.651	19.94	9.62	29.56	46.00	16.44	Average
7	1.166	27.11	9.62	36.73	56.00	19.27	QP
8	1.166	19.39	9.62	29.01	46.00	16.99	Average
9	1.561	25.62	9.63	35.25	56.00	20.75	QP
10	1.561	15.19	9.63	24.82	46.00	21.18	Average
11	10.203	23.77	9.67	33.44	60.00	26.56	QP
12	10.203	10.72	9.67	20.39	50.00	29.61	Average

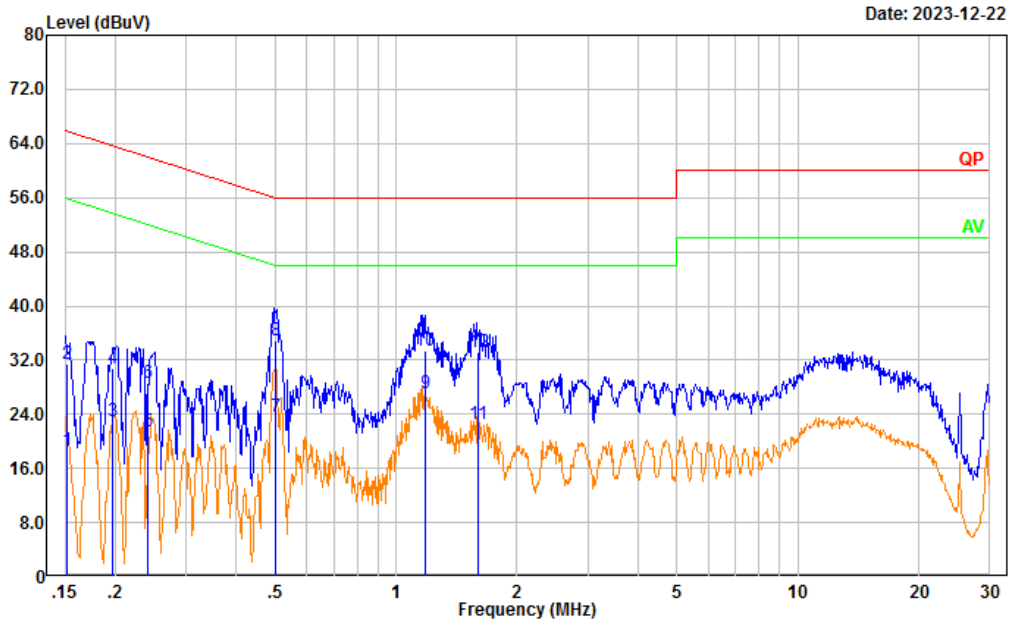
Lighting adapter 2:

Project No.:
Tester: David Huang
Port: Line
Note: Trasmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.153	14.27	9.61	23.88	55.84	31.96	Average
2	0.153	24.75	9.61	34.36	65.84	31.48	QP
3	0.208	9.30	9.61	18.91	53.30	34.39	Average
4	0.208	19.67	9.61	29.28	63.30	34.02	QP
5	0.501	19.91	9.61	29.52	46.00	16.48	Average
6	0.501	27.32	9.61	36.93	56.00	19.07	QP
7	1.155	16.50	9.62	26.12	46.00	19.88	Average
8	1.155	23.50	9.62	33.12	56.00	22.88	QP
9	1.576	11.18	9.63	20.81	46.00	25.19	Average
10	1.576	22.56	9.63	32.19	56.00	23.81	QP
11	12.361	12.25	9.67	21.92	50.00	28.08	Average
12	12.361	18.38	9.67	28.05	60.00	31.95	QP

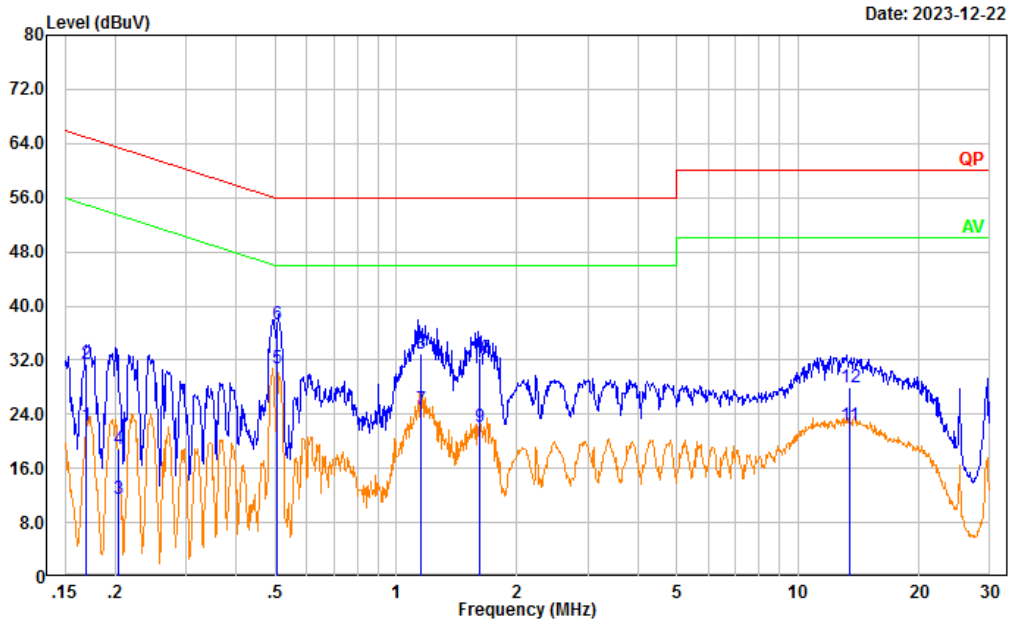
Project No.:
Tester: David Huang
Port: neutral
Note: Trasmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.151	9.08	9.61	18.69	55.93	37.24	Average
2	0.151	21.86	9.61	31.47	65.93	34.46	QP
3	0.197	13.41	9.61	23.02	53.75	30.73	Average
4	0.197	21.12	9.61	30.73	63.75	33.02	QP
5	0.241	11.80	9.61	21.41	52.06	30.65	Average
6	0.241	19.09	9.61	28.70	62.06	33.36	QP
7	0.502	14.10	9.61	23.71	46.00	22.29	Average
8	0.502	25.37	9.61	34.98	56.00	21.02	QP
9	1.178	17.38	9.62	27.00	46.00	19.00	Average
10	1.178	23.67	9.62	33.29	56.00	22.71	QP
11	1.600	12.99	9.63	22.62	46.00	23.38	Average
12	1.600	23.63	9.63	33.26	56.00	22.74	QP

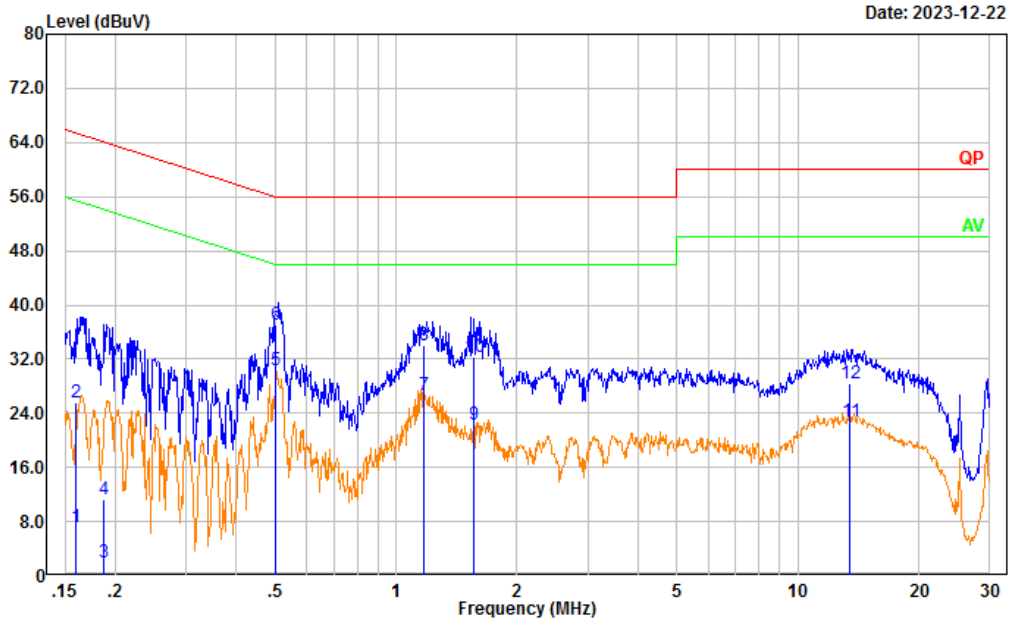
Normal adapter 2:

Project No.:
Tester: David Huang
Port: Line
Note: Trasmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.170	12.83	9.61	22.44	54.97	32.53	Average
2	0.170	21.87	9.61	31.48	64.97	33.49	QP
3	0.204	1.81	9.61	11.42	53.44	42.02	Average
4	0.204	9.36	9.61	18.97	63.44	44.47	QP
5	0.505	21.28	9.61	30.89	46.00	15.11	Average
6	0.505	27.65	9.61	37.26	56.00	18.74	QP
7	1.158	15.06	9.62	24.68	46.00	21.32	Average
8	1.158	23.34	9.62	32.96	56.00	23.04	QP
9	1.613	12.54	9.63	22.17	46.00	23.83	Average
10	1.613	22.77	9.63	32.40	56.00	23.60	QP
11	13.417	12.74	9.68	22.42	50.00	27.58	Average
12	13.417	18.39	9.68	28.07	60.00	31.93	QP

Project No.:
Tester: David Huang
Port: neutral
Note: Trasmitting(BT)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.160	-2.51	9.61	7.10	55.45	48.35	Average
2	0.160	16.07	9.61	25.68	65.45	39.77	QP
3	0.187	-7.68	9.61	1.93	54.17	52.24	Average
4	0.187	1.72	9.61	11.33	64.17	52.84	QP
5	0.500	20.76	9.61	30.37	46.00	15.63	Average
6	0.500	27.41	9.61	37.02	56.00	18.98	QP
7	1.168	17.03	9.62	26.65	46.00	19.35	Average
8	1.168	24.44	9.62	34.06	56.00	21.94	QP
9	1.565	12.67	9.63	22.30	46.00	23.70	Average
10	1.565	22.61	9.63	32.24	56.00	23.76	QP
11	13.466	13.17	9.68	22.85	50.00	27.15	Average
12	13.466	18.78	9.68	28.46	60.00	31.54	QP

4.2 Radiated Spurious Emissions

Serial Number:	2CIM-5,2CIM-6	Test Date:	2023/11/23~2023/12/22
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Vic Du ,Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.1~25.6	Relative Humidity: (%)	39~57	ATM Pressure: (kPa)	101.1~102.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/11/9	2026/11/8
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
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
Audix	Test Software	E3	201021 (V9)	N/A	N/A
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

** 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:

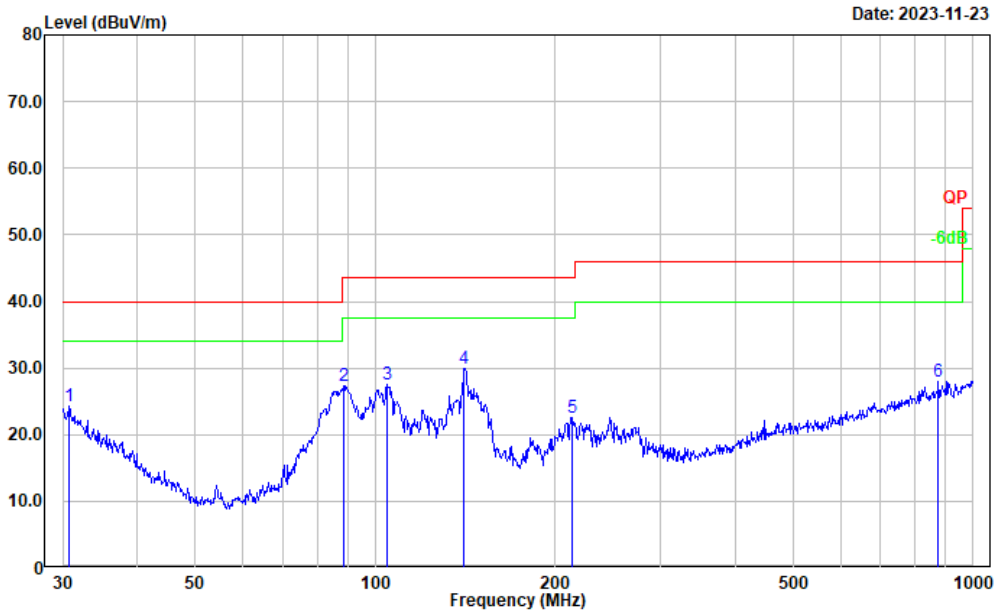
Please refer to the below table and plots.

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

For 9kHz-30MHz, the amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

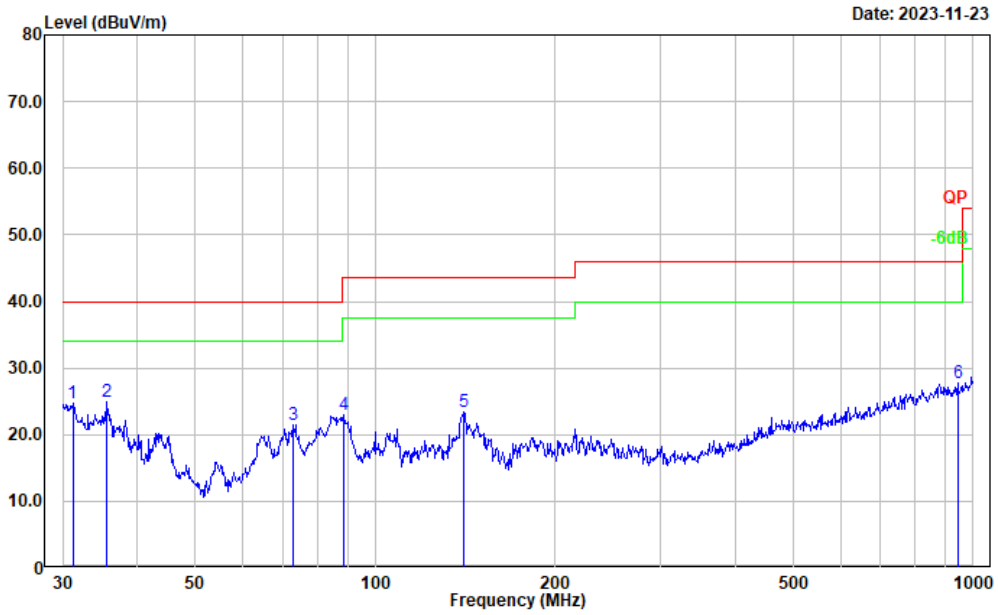
1) 30MHz-1GHz: Maximum output power mode (ANT 0, BDR Mode(GFSK))
Lighting adapter 1:
Low Channel:

Project No.: CR231061510-RF
Tester: Vic Du
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	28.58	-4.36	24.22	40.00	15.78	Peak
2	88.342	44.26	-17.02	27.24	43.50	16.26	Peak
3	104.536	41.07	-13.44	27.63	43.50	15.87	Peak
4	140.835	41.81	-11.83	29.98	43.50	13.52	Peak
5	213.763	35.14	-12.61	22.53	43.50	20.97	Peak
6	875.247	29.24	-1.18	28.06	46.00	17.94	Peak

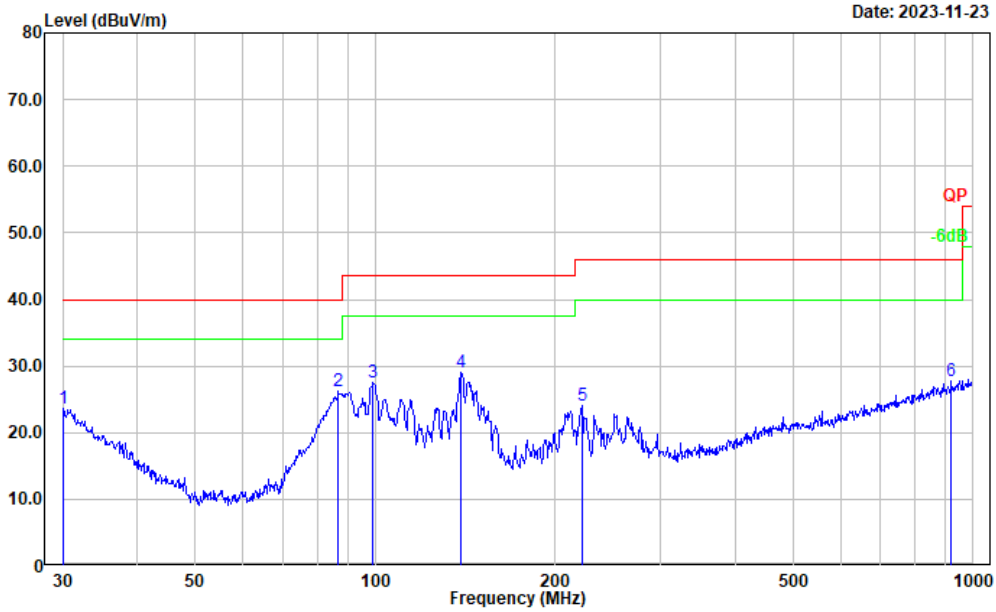
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	31.180	29.38	-4.69	24.69	40.00	15.31	Peak
2	35.624	32.94	-8.10	24.84	40.00	15.16	Peak
3	72.847	38.26	-16.80	21.46	40.00	18.54	Peak
4	88.342	40.03	-17.02	23.01	43.50	20.49	Peak
5	140.835	35.20	-11.83	23.37	43.50	20.13	Peak
6	942.131	28.25	-0.41	27.84	46.00	18.16	Peak

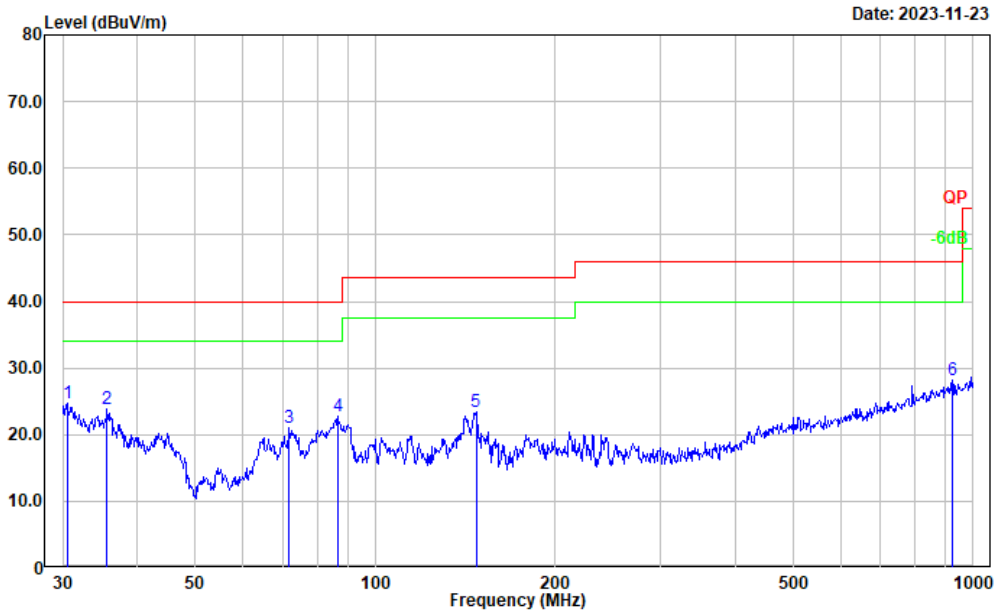
Middle Channel:

Project No.: CR231061510-RF
Tester: Vic Du
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	27.42	-3.88	23.54	40.00	16.46	Peak
2	86.807	43.26	-17.10	26.16	40.00	13.84	Peak
3	99.180	42.14	-14.51	27.63	43.50	15.87	Peak
4	139.361	40.85	-11.74	29.11	43.50	14.39	Peak
5	221.392	36.93	-12.88	24.05	46.00	21.95	Peak
6	919.287	28.40	-0.66	27.74	46.00	18.26	Peak

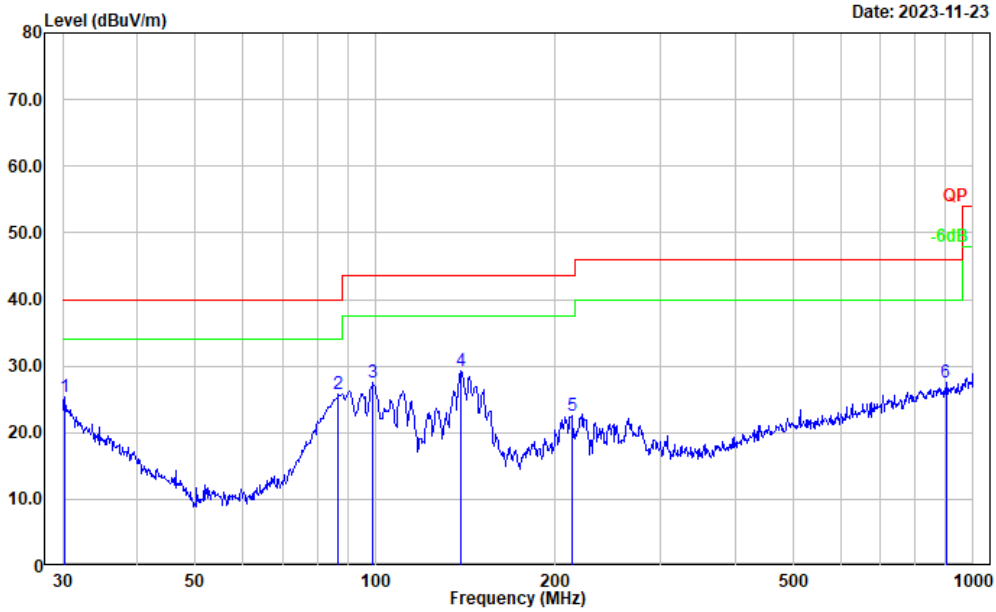
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	28.97	-4.20	24.77	40.00	15.23	Peak
2	35.624	32.00	-8.10	23.90	40.00	16.10	Peak
3	71.832	37.77	-16.74	21.03	40.00	18.97	Peak
4	86.503	39.77	-17.11	22.66	40.00	17.34	Peak
5	147.404	35.26	-11.89	23.37	43.50	20.13	Peak
6	922.516	28.82	-0.65	28.17	46.00	17.83	Peak

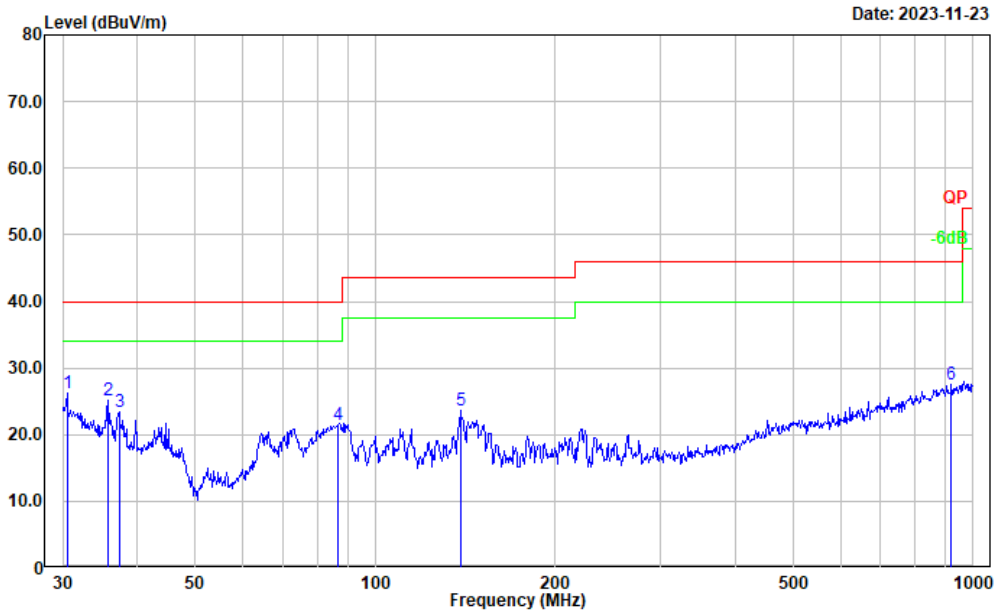
High Channel:

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.317	29.36	-4.04	25.32	40.00	14.68	Peak
2	86.807	43.00	-17.10	25.90	40.00	14.10	Peak
3	99.180	42.14	-14.51	27.63	43.50	15.87	Peak
4	138.874	41.01	-11.71	29.30	43.50	14.20	Peak
5	213.015	35.04	-12.57	22.47	43.50	21.03	Peak
6	900.147	28.37	-0.86	27.51	46.00	18.49	Peak

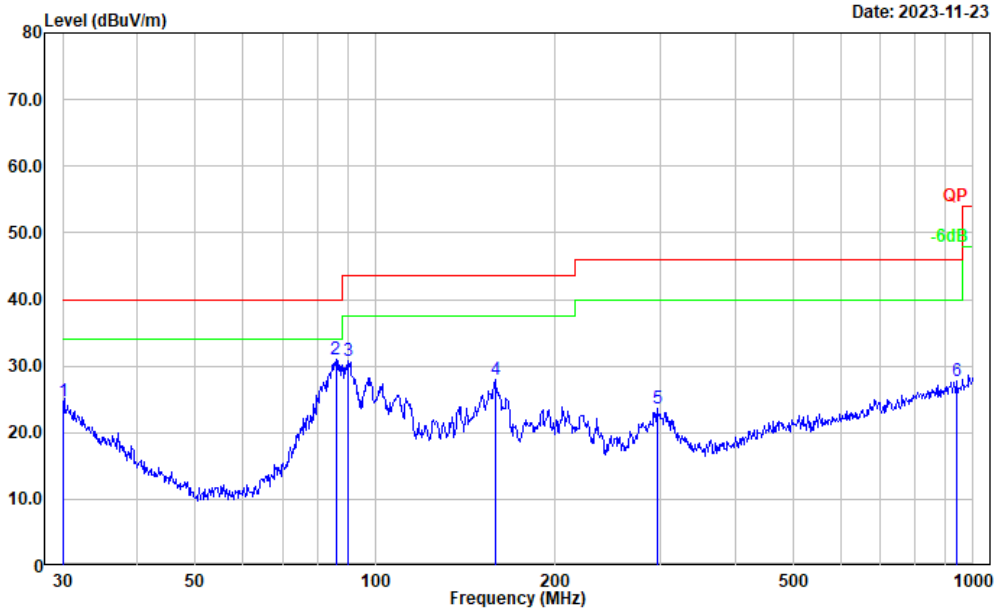
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	30.48	-4.20	26.28	40.00	13.72	Peak
2	35.749	33.36	-8.20	25.16	40.00	14.84	Peak
3	37.285	32.72	-9.35	23.37	40.00	16.63	Peak
4	86.807	38.57	-17.10	21.47	40.00	18.53	Peak
5	138.874	35.41	-11.71	23.70	43.50	19.80	Peak
6	919.287	28.20	-0.66	27.54	46.00	18.46	Peak

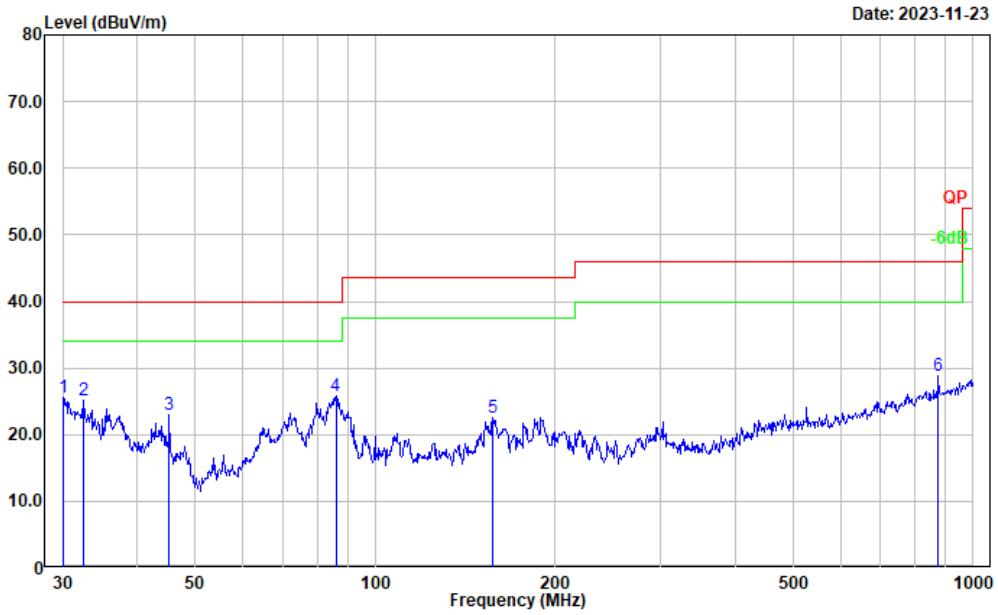
Normal adapter 1:
Low Channel:

Project No.: CR231061510-RF
Tester: Vic Du
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	28.58	-3.80	24.78	40.00	15.22	Peak
2	85.898	48.05	-17.15	30.90	40.00	9.10	Peak
3	89.905	47.77	-16.93	30.84	43.50	12.66	Peak
4	158.668	39.81	-11.95	27.86	43.50	15.64	Peak
5	296.184	34.47	-10.74	23.73	46.00	22.27	Peak
6	938.833	28.17	-0.45	27.72	46.00	18.28	Peak

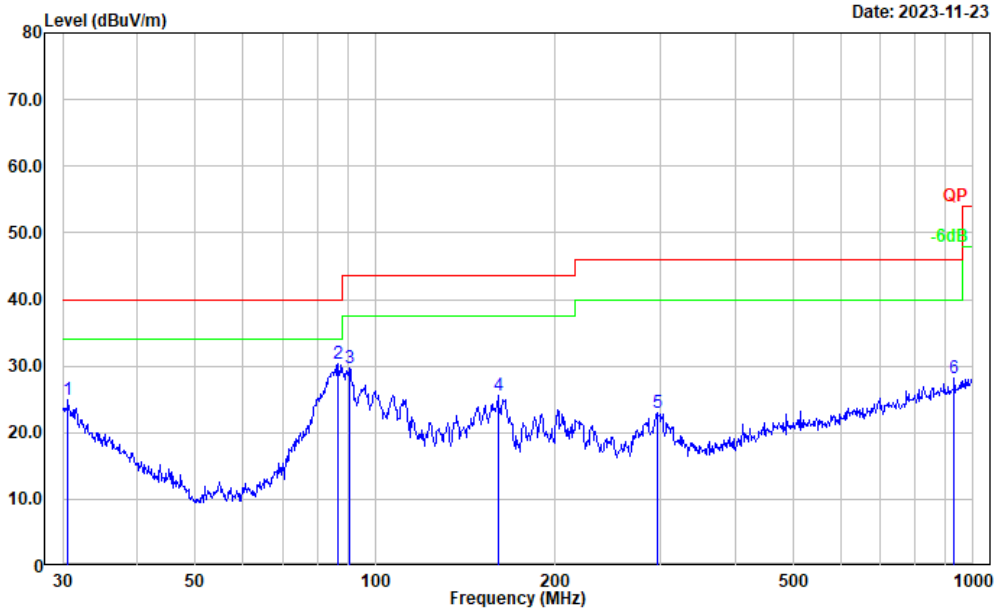
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	29.42	-3.80	25.62	40.00	14.38	Peak
2	32.520	30.95	-5.71	25.24	40.00	14.76	Peak
3	45.217	37.26	-14.35	22.91	40.00	17.09	Peak
4	85.898	43.00	-17.15	25.85	40.00	14.15	Peak
5	157.007	34.53	-11.94	22.59	43.50	20.91	Peak
6	875.247	30.04	-1.18	28.86	46.00	17.14	Peak

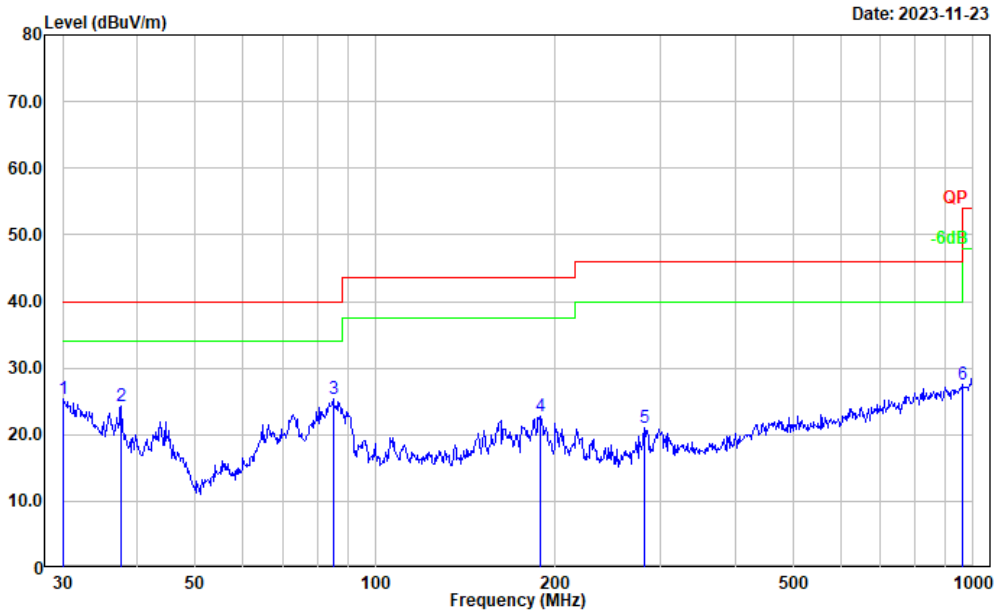
Middle Channel:

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.638	29.21	-4.28	24.93	40.00	15.07	Peak
2	86.807	47.38	-17.10	30.28	40.00	9.72	Peak
3	90.537	46.58	-16.80	29.78	43.50	13.72	Peak
4	160.346	37.65	-11.99	25.66	43.50	17.84	Peak
5	297.224	33.77	-10.71	23.06	46.00	22.94	Peak
6	929.008	28.68	-0.59	28.09	46.00	17.91	Peak

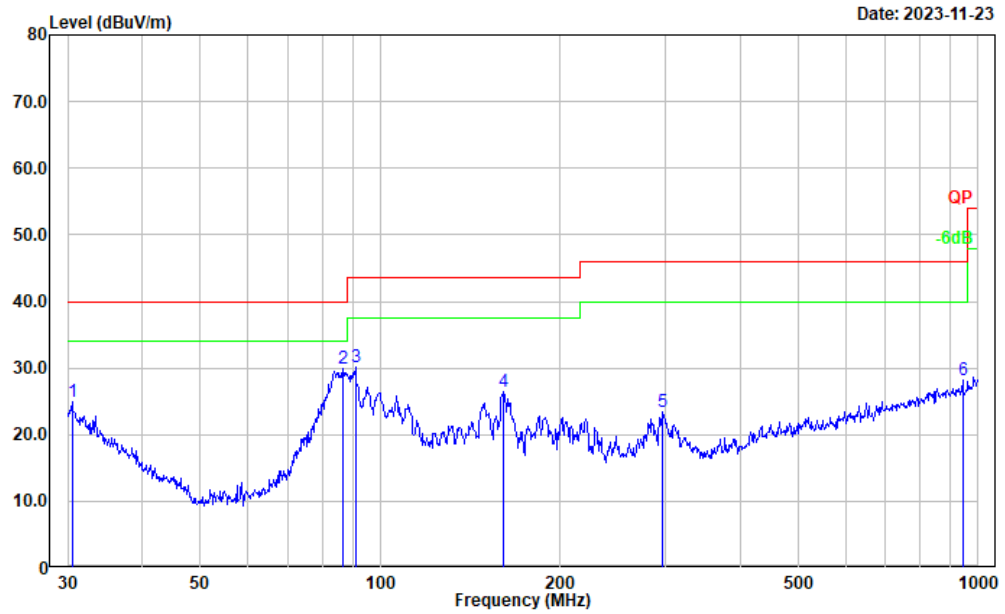
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	29.09	-3.80	25.29	40.00	14.71	Peak
2	37.548	33.83	-9.52	24.31	40.00	15.69	Peak
3	84.999	42.66	-17.19	25.47	40.00	14.53	Peak
4	188.413	36.29	-13.49	22.80	43.50	20.70	Peak
5	281.995	32.59	-11.56	21.03	46.00	24.97	Peak
6	962.162	27.42	0.04	27.46	54.00	26.54	Peak

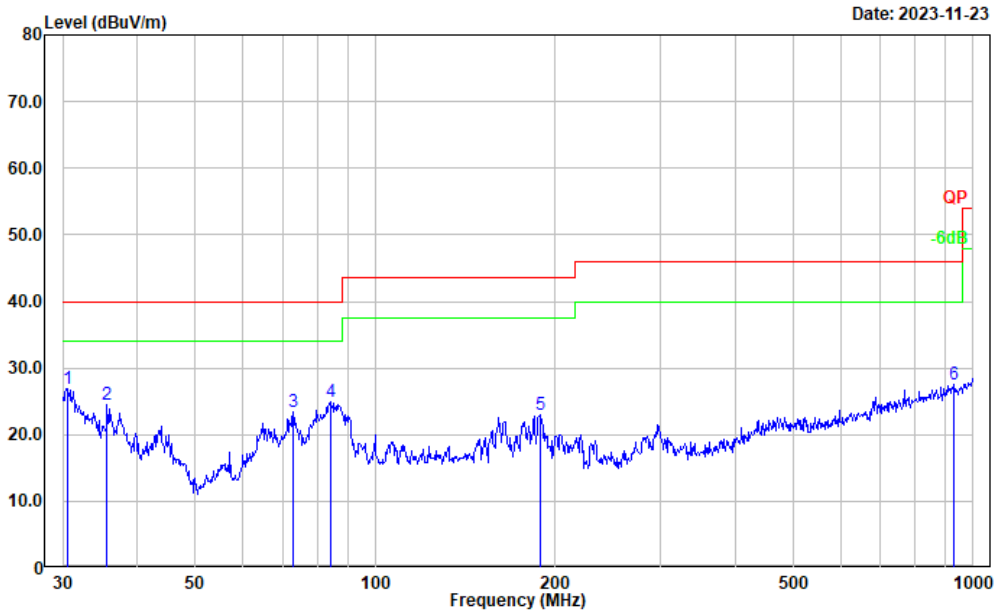
High Channel:

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.531	29.06	-4.20	24.86	40.00	15.14	Peak
2	86.807	46.95	-17.10	29.85	40.00	10.15	Peak
3	90.855	46.84	-16.72	30.12	43.50	13.38	Peak
4	160.909	38.45	-12.05	26.40	43.50	17.10	Peak
5	296.184	34.09	-10.74	23.35	46.00	22.65	Peak
6	942.131	28.52	-0.41	28.11	46.00	17.89	Peak

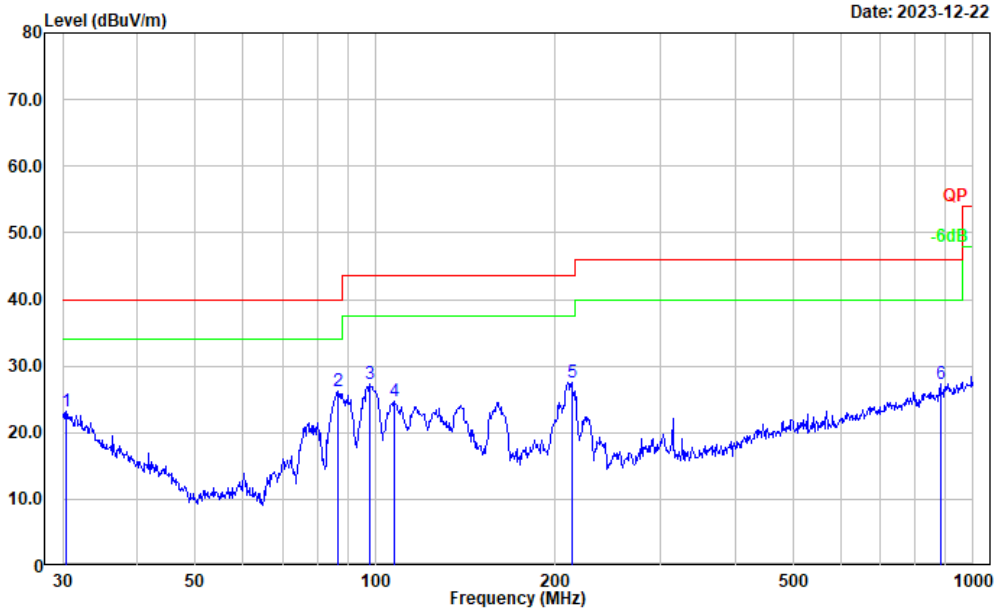
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.638	31.16	-4.28	26.88	40.00	13.12	Peak
2	35.624	32.54	-8.10	24.44	40.00	15.56	Peak
3	72.847	40.32	-16.80	23.52	40.00	16.48	Peak
4	84.110	42.25	-17.23	25.02	40.00	14.98	Peak
5	188.413	36.51	-13.49	23.02	43.50	20.48	Peak
6	929.008	28.16	-0.59	27.57	46.00	18.43	Peak

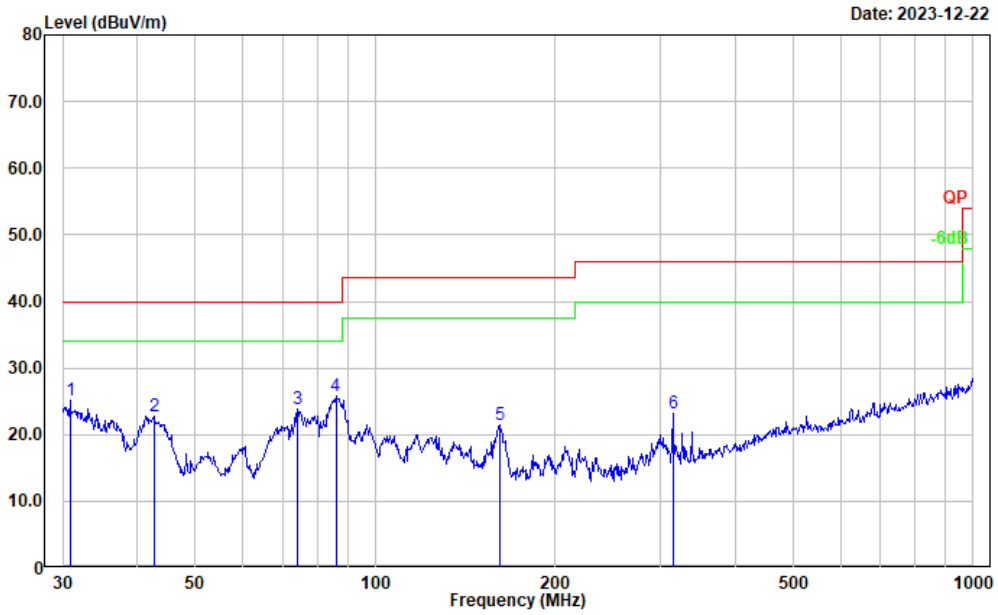
Lighting adapter 2:
Low Channel:

Project No.: CR231061510-RF
Tester: Vic Du
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	27.56	-4.45	23.11	40.00	16.89	Peak
2	86.807	43.60	-17.43	26.17	40.00	13.83	Peak
3	97.798	42.41	-15.16	27.25	43.50	16.25	Peak
4	107.510	37.83	-13.14	24.69	43.50	18.81	Peak
5	213.015	40.62	-13.01	27.61	43.50	15.89	Peak
6	881.407	28.60	-1.27	27.33	46.00	18.67	Peak

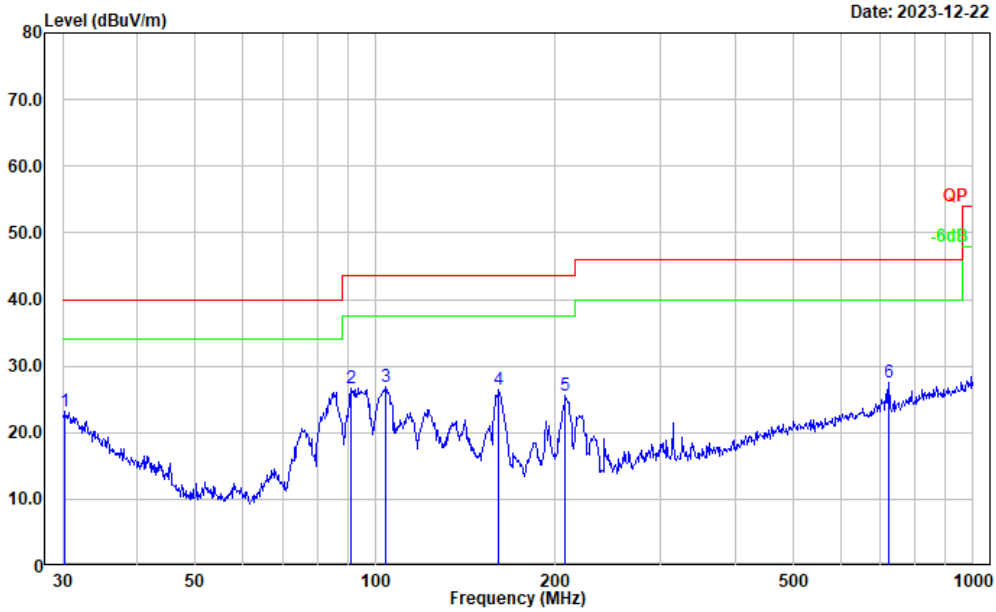
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.853	29.99	-4.78	25.21	40.00	14.79	Peak
2	42.600	35.99	-13.20	22.79	40.00	17.21	Peak
3	74.135	41.18	-17.32	23.86	40.00	16.14	Peak
4	85.898	43.24	-17.49	25.75	40.00	14.25	Peak
5	161.474	33.88	-12.52	21.36	43.50	22.14	Peak
6	314.377	34.01	-10.89	23.12	46.00	22.88	Peak

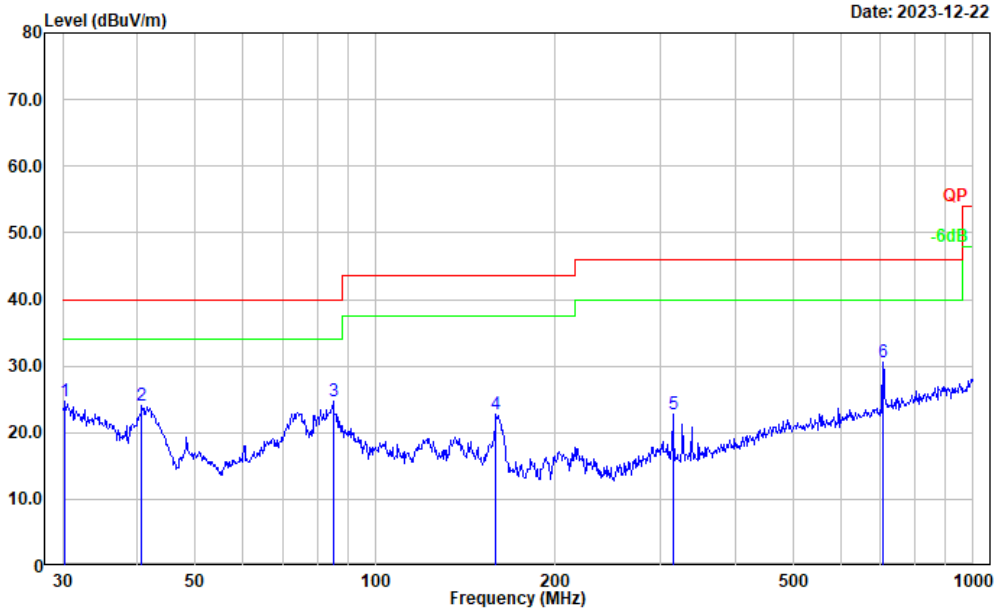
Middle Channel:

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.317	27.58	-4.36	23.22	40.00	16.78	Peak
2	90.855	43.74	-17.02	26.72	43.50	16.78	Peak
3	103.806	40.78	-13.87	26.91	43.50	16.59	Peak
4	160.909	38.85	-12.46	26.39	43.50	17.11	Peak
5	207.850	38.39	-12.90	25.49	43.50	18.01	Peak
6	724.261	31.05	-3.62	27.43	46.00	18.57	Peak

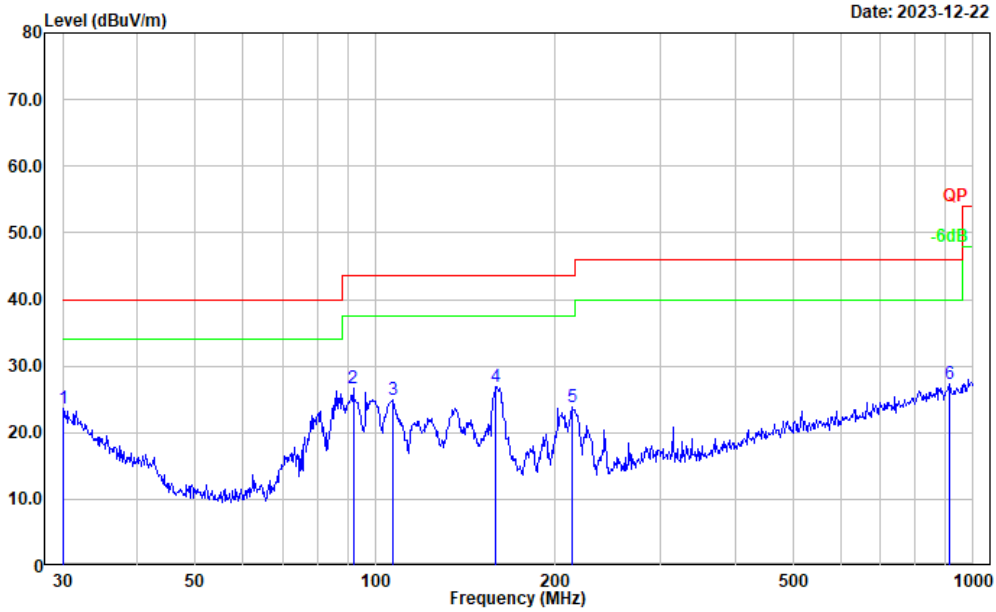
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.317	29.18	-4.36	24.82	40.00	15.18	Peak
2	40.702	36.11	-12.12	23.99	40.00	16.01	Peak
3	84.999	42.29	-17.51	24.78	40.00	15.22	Peak
4	159.225	35.17	-12.36	22.81	43.50	20.69	Peak
5	314.377	33.66	-10.89	22.77	46.00	23.23	Peak
6	706.700	34.29	-3.81	30.48	46.00	15.52	Peak

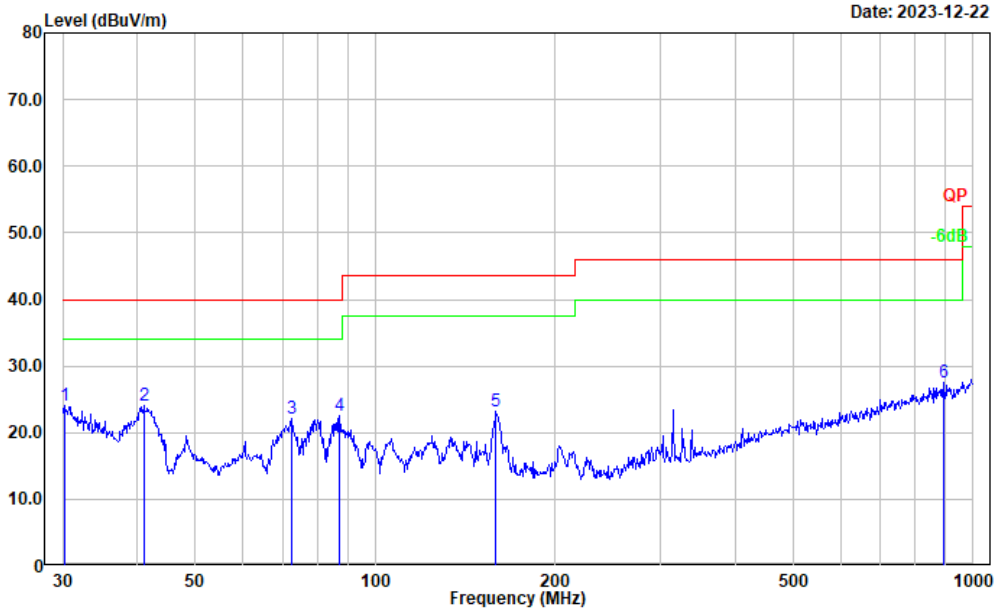
High Channel:

Project No.: CR231061510-RF
Tester: Vic Du
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	27.73	-4.20	23.53	40.00	16.47	Peak
2	91.816	43.56	-16.79	26.77	43.50	16.73	Peak
3	106.759	38.16	-13.29	24.87	43.50	18.63	Peak
4	158.668	39.24	-12.35	26.89	43.50	16.61	Peak
5	213.015	36.96	-13.01	23.95	43.50	19.55	Peak
6	912.862	28.16	-0.86	27.30	46.00	18.70	Peak

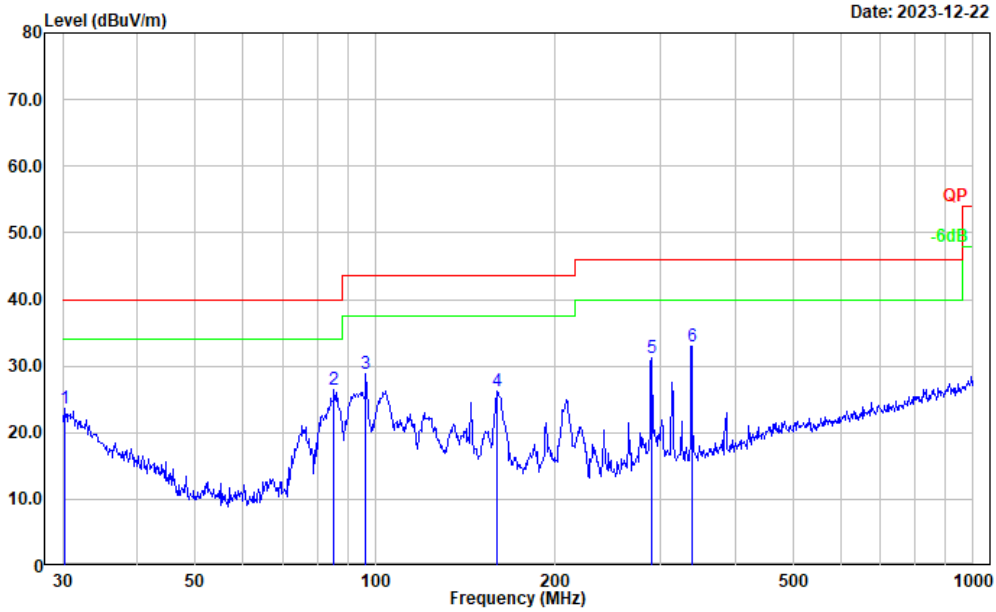
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	28.30	-4.28	24.02	40.00	15.98	Peak
2	40.988	36.35	-12.29	24.06	40.00	15.94	Peak
3	72.338	39.28	-17.14	22.14	40.00	17.86	Peak
4	87.112	39.95	-17.41	22.54	40.00	17.46	Peak
5	159.225	35.64	-12.36	23.28	43.50	20.22	Peak
6	890.728	28.76	-1.23	27.53	46.00	18.47	Peak

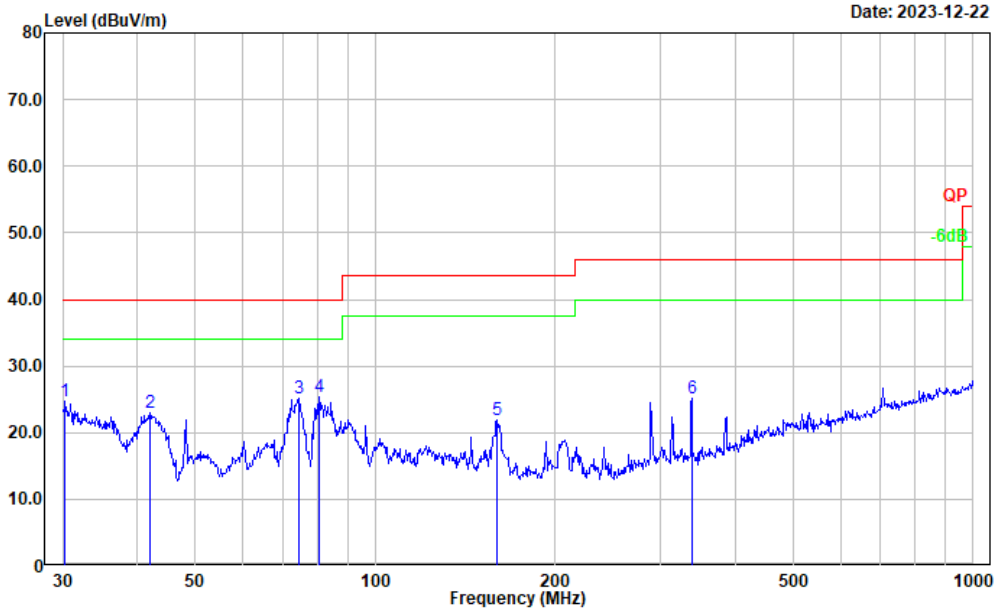
Normal adapter 2:
Low Channel:

Project No.: CR231061510-RF
Tester: Vic Du
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	27.86	-4.28	23.58	40.00	16.42	Peak
2	85.298	44.06	-17.51	26.55	40.00	13.45	Peak
3	96.436	44.30	-15.54	28.76	43.50	14.74	Peak
4	159.784	38.59	-12.36	26.23	43.50	17.27	Peak
5	290.017	42.75	-11.51	31.24	46.00	14.76	Peak
6	338.400	43.46	-10.50	32.96	46.00	13.04	Peak

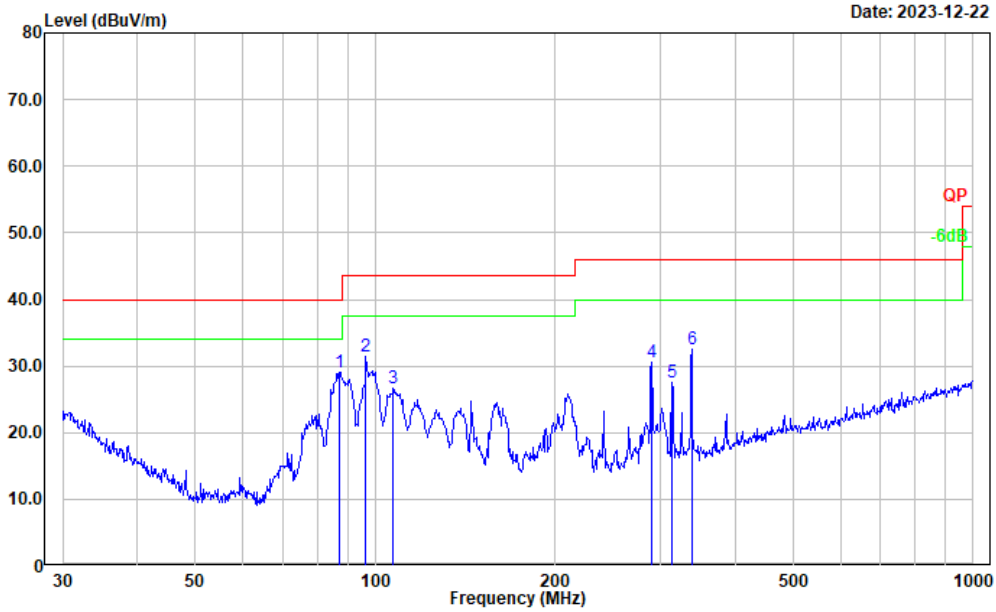
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.317	28.98	-4.36	24.62	40.00	15.38	Peak
2	42.007	35.78	-12.84	22.94	40.00	17.06	Peak
3	74.657	42.56	-17.34	25.22	40.00	14.78	Peak
4	80.362	43.09	-17.78	25.31	40.00	14.69	Peak
5	159.784	34.32	-12.36	21.96	43.50	21.54	Peak
6	338.400	35.74	-10.50	25.24	46.00	20.76	Peak

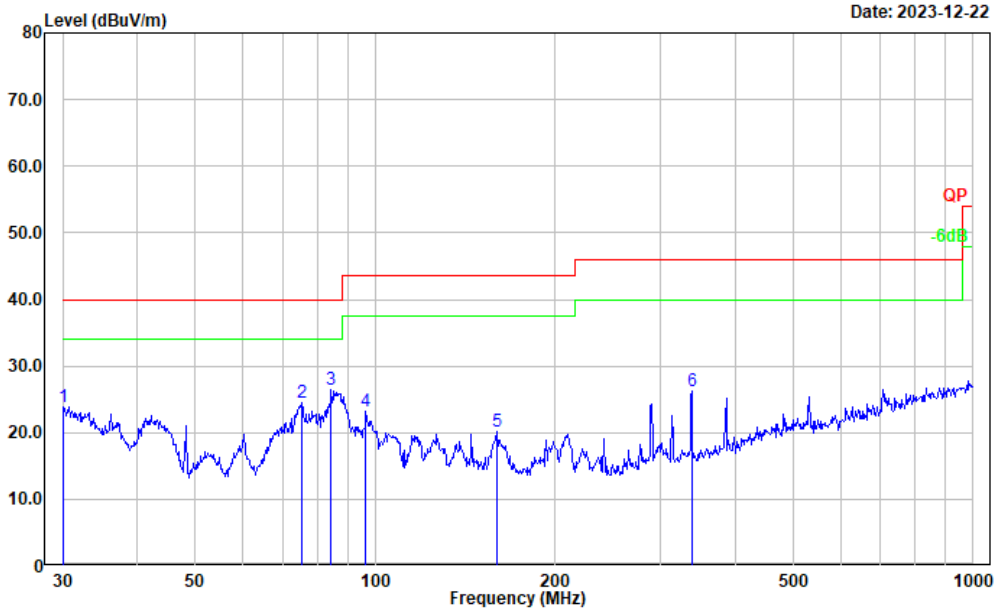
Middle Channel:

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	87.112	46.54	-17.41	29.13	40.00	10.87	Peak
2	96.436	46.98	-15.54	31.44	43.50	12.06	Peak
3	107.134	39.85	-13.20	26.65	43.50	16.85	Peak
4	290.017	42.00	-11.51	30.49	46.00	15.51	Peak
5	313.276	38.42	-10.89	27.53	46.00	18.47	Peak
6	338.400	42.94	-10.50	32.44	46.00	13.56	Peak

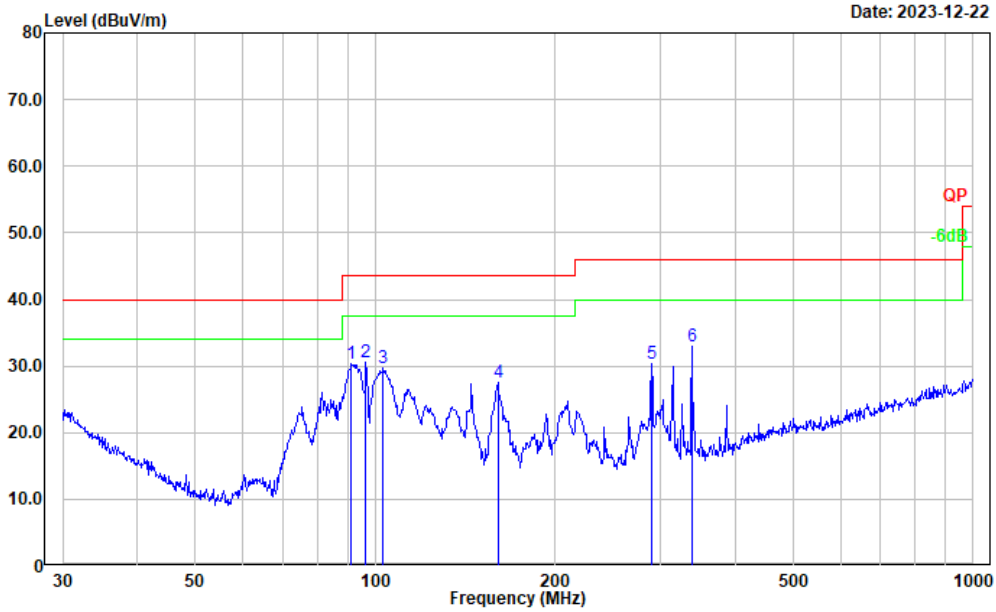
Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.105	28.11	-4.20	23.91	40.00	16.09	Peak
2	75.446	41.84	-17.39	24.45	40.00	15.55	Peak
3	84.405	43.99	-17.55	26.44	40.00	13.56	Peak
4	96.436	38.80	-15.54	23.26	43.50	20.24	Peak
5	159.784	32.58	-12.36	20.22	43.50	23.28	Peak
6	338.400	36.64	-10.50	26.14	46.00	19.86	Peak

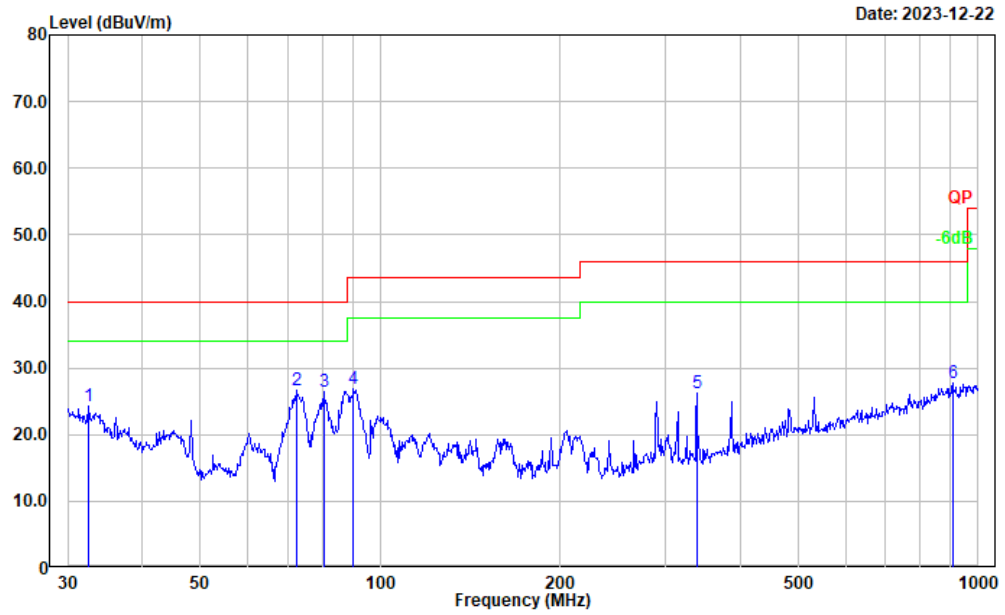
High Channel:

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	91.175	47.27	-16.94	30.33	43.50	13.17	Peak
2	96.436	46.10	-15.54	30.56	43.50	12.94	Peak
3	103.080	43.73	-13.99	29.74	43.50	13.76	Peak
4	160.346	39.84	-12.40	27.44	43.50	16.06	Peak
5	290.017	41.86	-11.51	30.35	46.00	15.65	Peak
6	338.400	43.36	-10.50	32.86	46.00	13.14	Peak

Project No.: CR231061510-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	32.520	30.29	-6.05	24.24	40.00	15.76	Peak
2	72.592	43.90	-17.15	26.75	40.00	13.25	Peak
3	80.362	44.18	-17.78	26.40	40.00	13.60	Peak
4	90.220	43.98	-17.18	26.80	43.50	16.70	Peak
5	338.400	36.68	-10.50	26.18	46.00	19.82	Peak
6	906.482	28.74	-0.94	27.80	46.00	18.20	Peak

2) 1-25GHz:
Ant 0:
BDR Mode(GFSK):

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	28.04	PK	H	31.71	59.75	74.00	14.25
2390.000	16.03	AV	H	31.71	47.74	54.00	6.26
2390.000	27.08	PK	V	31.71	58.79	74.00	15.21
2390.000	14.61	AV	V	31.71	46.32	54.00	7.68
4804.000	38.36	PK	H	11.19	49.55	74.00	24.45
4804.000	24.44	AV	H	11.19	35.63	54.00	18.37
4804.000	38.47	PK	V	11.19	49.66	74.00	24.34
4804.000	29.63	AV	V	11.19	40.82	54.00	13.18
7206.000	35.50	PK	H	15.03	50.53	74.00	23.47
7206.000	26.43	AV	H	15.03	41.46	54.00	12.54
7206.000	36.63	PK	V	15.03	51.66	74.00	22.34
7206.000	23.42	AV	V	15.03	38.45	54.00	15.55
Middle Channel:				2441	MHz		
4882.000	37.93	PK	H	11.48	49.41	74.00	24.59
4882.000	32.65	AV	H	11.48	44.13	54.00	9.87
4882.000	37.12	PK	V	11.48	48.60	74.00	25.40
4882.000	31.19	AV	V	11.48	42.67	54.00	11.33
7323.000	38.29	PK	H	15.57	53.86	74.00	20.14
7323.000	22.66	AV	H	15.57	38.23	54.00	15.77
7323.000	36.07	PK	V	15.57	51.64	74.00	22.36
7323.000	22.57	AV	V	15.57	38.14	54.00	15.86
High Channel:				2480	MHz		
2483.500	27.43	PK	H	32.19	59.62	74.00	14.38
2483.500	16.09	AV	H	32.19	48.28	54.00	5.72
2483.500	28.09	PK	V	32.19	60.28	74.00	13.72
2483.500	16.92	AV	V	32.19	49.11	54.00	4.89
4960.000	37.09	PK	H	11.77	48.86	74.00	25.14
4960.000	22.91	AV	H	11.77	34.68	54.00	19.32
4960.000	36.40	PK	V	11.77	48.17	74.00	25.83
4960.000	28.27	AV	V	11.77	40.04	54.00	13.96
7440.000	35.46	PK	H	15.98	51.44	74.00	22.56
7440.000	22.30	AV	H	15.98	38.28	54.00	15.72
7440.000	35.68	PK	V	15.98	51.66	74.00	22.34
7440.000	22.77	AV	V	15.98	38.75	54.00	15.25

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	26.57	PK	H	31.71	58.28	74.00	15.72
2390.000	13.46	AV	H	31.71	45.17	54.00	8.83
2390.000	33.80	PK	V	31.71	65.51	74.00	8.49
2390.000	13.34	AV	V	31.71	45.05	54.00	8.95
4804.000	38.47	PK	H	11.19	49.66	74.00	24.34
4804.000	28.38	AV	H	11.19	39.57	54.00	14.43
4804.000	36.41	PK	V	11.19	47.60	74.00	26.40
4804.000	25.39	AV	V	11.19	36.58	54.00	17.42
7206.000	38.35	PK	H	15.03	53.38	74.00	20.62
7206.000	25.82	AV	H	15.03	40.85	54.00	13.15
7206.000	37.01	PK	V	15.03	52.04	74.00	21.96
7206.000	23.76	AV	V	15.03	38.79	54.00	15.21
Middle Channel:				2441	MHz		
4882.000	37.31	PK	H	11.48	48.79	74.00	25.21
4882.000	26.30	AV	H	11.48	37.78	54.00	16.22
4882.000	36.25	PK	V	11.48	47.73	74.00	26.27
4882.000	22.46	AV	V	11.48	33.94	54.00	20.06
7323.000	35.51	PK	H	15.57	51.08	74.00	22.92
7323.000	22.14	AV	H	15.57	37.71	54.00	16.29
7323.000	37.71	PK	V	15.57	53.28	74.00	20.72
7323.000	22.24	AV	V	15.57	37.81	54.00	16.19
High Channel:				2480	MHz		
2483.500	29.56	PK	H	32.19	61.75	74.00	12.25
2483.500	13.74	AV	H	32.19	45.93	54.00	8.07
2483.500	27.56	PK	V	32.19	59.75	74.00	14.25
2483.500	13.47	AV	V	32.19	45.66	54.00	8.34
4960.000	36.21	PK	H	11.77	47.98	74.00	26.02
4960.000	25.19	AV	H	11.77	36.96	54.00	17.04
4960.000	35.17	PK	V	11.77	46.94	74.00	27.06
4960.000	23.59	AV	V	11.77	35.36	54.00	18.64
7440.000	37.53	PK	H	15.98	53.51	74.00	20.49
7440.000	23.43	AV	H	15.98	39.41	54.00	14.59
7440.000	36.46	PK	V	15.98	52.44	74.00	21.56
7440.000	22.71	AV	V	15.98	38.69	54.00	15.31

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	28.52	PK	H	31.71	60.23	74.00	13.77
2390.000	16.69	AV	H	31.71	48.40	54.00	5.60
2390.000	29.78	PK	V	31.71	61.49	74.00	12.51
2390.000	13.63	AV	V	31.71	45.34	54.00	8.66
4804.000	36.80	PK	H	11.19	47.99	74.00	26.01
4804.000	25.55	AV	H	11.19	36.74	54.00	17.26
4804.000	35.77	PK	V	11.19	46.96	74.00	27.04
4804.000	23.98	AV	V	11.19	35.17	54.00	18.83
7206.000	36.83	PK	H	15.03	51.86	74.00	22.14
7206.000	25.56	AV	H	15.03	40.59	54.00	13.41
7206.000	35.94	PK	V	15.03	50.97	74.00	23.03
7206.000	22.46	AV	V	15.03	37.49	54.00	16.51
Middle Channel:				2441	MHz		
4882.000	36.20	PK	H	11.48	47.68	74.00	26.32
4882.000	23.87	AV	H	11.48	35.35	54.00	18.65
4882.000	34.21	PK	V	11.48	45.69	74.00	28.31
4882.000	22.63	AV	V	11.48	34.11	54.00	19.89
7323.000	34.29	PK	H	15.57	49.86	74.00	24.14
7323.000	24.36	AV	H	15.57	39.93	54.00	14.07
7323.000	35.50	PK	V	15.57	51.07	74.00	22.93
7323.000	22.41	AV	V	15.57	37.98	54.00	16.02
High Channel:				2480	MHz		
2483.500	34.60	PK	H	32.19	66.79	74.00	7.21
2483.500	17.66	AV	H	32.19	49.85	54.00	4.15
2483.500	27.03	PK	V	32.19	59.22	74.00	14.78
2483.500	13.48	AV	V	32.19	45.67	54.00	8.33
4960.000	39.44	PK	H	11.77	51.21	74.00	22.79
4960.000	22.71	AV	H	11.77	34.48	54.00	19.52
4960.000	35.74	PK	V	11.77	47.51	74.00	26.49
4960.000	24.30	AV	V	11.77	36.07	54.00	17.93
7440.000	36.00	PK	H	15.98	51.98	74.00	22.02
7440.000	24.83	AV	H	15.98	40.81	54.00	13.19
7440.000	34.91	PK	V	15.98	50.89	74.00	23.11
7440.000	22.99	AV	V	15.98	38.97	54.00	15.03

Ant 1:

BDR Mode(GFSK):

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	28.59	PK	H	31.71	60.30	74.00	13.70
2390.000	15.29	AV	H	31.71	47.00	54.00	7.00
2390.000	27.43	PK	V	31.71	59.14	74.00	14.86
2390.000	14.30	AV	V	31.71	46.01	54.00	7.99
4804.000	36.47	PK	H	11.19	47.66	74.00	26.34
4804.000	29.58	AV	H	11.19	40.77	54.00	13.23
4804.000	35.39	PK	V	11.19	46.58	74.00	27.42
4804.000	29.55	AV	V	11.19	40.74	54.00	13.26
7206.000	36.19	PK	H	15.03	51.22	74.00	22.78
7206.000	32.87	AV	H	15.03	47.90	54.00	6.10
7206.000	34.67	PK	V	15.03	49.70	74.00	24.30
7206.000	22.26	AV	V	15.03	37.29	54.00	16.71
Middle Channel:				2441	MHz		
4882.000	35.97	PK	H	11.48	47.45	74.00	26.55
4882.000	27.67	AV	H	11.48	39.15	54.00	14.85
4882.000	36.47	PK	V	11.48	47.95	74.00	26.05
4882.000	30.55	AV	V	11.48	42.03	54.00	11.97
7323.000	36.08	PK	H	15.57	51.65	74.00	22.35
7323.000	22.86	AV	H	15.57	38.43	54.00	15.57
7323.000	36.34	PK	V	15.57	51.91	74.00	22.09
7323.000	22.52	AV	V	15.57	38.09	54.00	15.91
High Channel:				2480	MHz		
2483.500	32.65	PK	H	32.19	64.84	74.00	9.16
2483.500	18.90	AV	H	32.19	51.09	54.00	2.91
2483.500	33.28	PK	V	32.19	65.47	74.00	8.53
2483.500	18.65	AV	V	32.19	50.84	54.00	3.16
4960.000	36.71	PK	H	11.77	48.48	74.00	25.52
4960.000	27.61	AV	H	11.77	39.38	54.00	14.62
4960.000	36.66	PK	V	11.77	48.43	74.00	25.57
4960.000	28.12	AV	V	11.77	39.89	54.00	14.11
7440.000	35.85	PK	H	15.98	51.83	74.00	22.17
7440.000	22.84	AV	H	15.98	38.82	54.00	15.18
7440.000	35.63	PK	V	15.98	51.61	74.00	22.39
7440.000	22.73	AV	V	15.98	38.71	54.00	15.29

2EDR Mode (π/4-DQPSK):

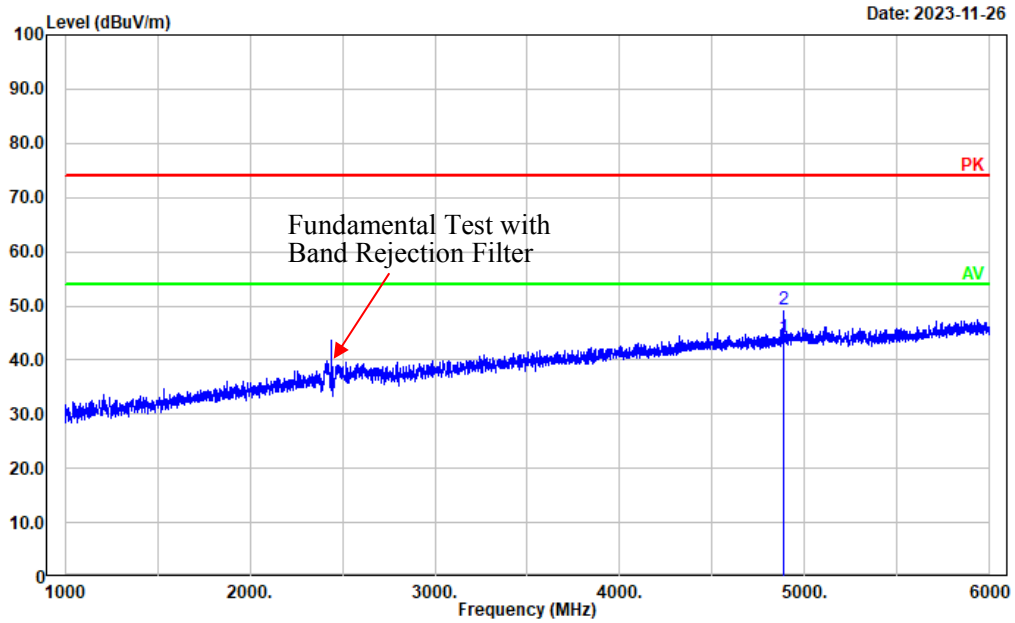
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2402	MHz		
2390.000	36.44	PK	H	31.71	68.15	74.00	5.85
2390.000	14.01	AV	H	31.71	45.72	54.00	8.28
2390.000	34.35	PK	V	31.71	66.06	74.00	7.94
2390.000	15.52	AV	V	31.71	47.23	54.00	6.77
4804.000	34.37	PK	H	11.19	45.56	74.00	28.44
4804.000	25.63	AV	H	11.19	36.82	54.00	17.18
4804.000	34.20	PK	V	11.19	45.39	74.00	28.61
4804.000	24.37	AV	V	11.19	35.56	54.00	18.44
7206.000	36.65	PK	H	15.03	51.68	74.00	22.32
7206.000	23.86	AV	H	15.03	38.89	54.00	15.11
7206.000	36.94	PK	V	15.03	51.97	74.00	22.03
7206.000	22.52	AV	V	15.03	37.55	54.00	16.45
Middle Channel:				2441	MHz		
4882.000	34.28	PK	H	11.48	45.76	74.00	28.24
4882.000	24.69	AV	H	11.48	36.17	54.00	17.83
4882.000	36.88	PK	V	11.48	48.36	74.00	25.64
4882.000	22.60	AV	V	11.48	34.08	54.00	19.92
7323.000	37.98	PK	H	15.57	53.55	74.00	20.45
7323.000	22.26	AV	H	15.57	37.83	54.00	16.17
7323.000	34.70	PK	V	15.57	50.27	74.00	23.73
7323.000	22.23	AV	V	15.57	37.80	54.00	16.20
High Channel:				2480	MHz		
2483.500	28.83	PK	H	32.19	61.02	74.00	12.98
2483.500	14.85	AV	H	32.19	47.04	54.00	6.96
2483.500	30.95	PK	V	32.19	63.14	74.00	10.86
2483.500	16.61	AV	V	32.19	48.80	54.00	5.20
4960.000	39.23	PK	H	11.77	51.00	74.00	23.00
4960.000	22.05	AV	H	11.77	33.82	54.00	20.18
4960.000	37.06	PK	V	11.77	48.83	74.00	25.17
4960.000	23.23	AV	V	11.77	35.00	54.00	19.00
7440.000	36.91	PK	H	15.98	52.89	74.00	21.11
7440.000	24.10	AV	H	15.98	40.08	54.00	13.92
7440.000	36.26	PK	V	15.98	52.24	74.00	21.76
7440.000	22.09	AV	V	15.98	38.07	54.00	15.93

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	27.10	PK	H	31.71	58.81	74.00	15.19
2390.000	13.07	AV	H	31.71	44.78	54.00	9.22
2390.000	29.35	PK	V	31.71	61.06	74.00	12.94
2390.000	18.64	AV	V	31.71	50.35	54.00	3.65
4804.000	36.72	PK	H	11.19	47.91	74.00	26.09
4804.000	23.43	AV	H	11.19	34.62	54.00	19.38
4804.000	35.00	PK	V	11.19	46.19	74.00	27.81
4804.000	25.52	AV	V	11.19	36.71	54.00	17.29
7206.000	35.23	PK	H	15.03	50.26	74.00	23.74
7206.000	23.87	AV	H	15.03	38.90	54.00	15.10
7206.000	36.74	PK	V	15.03	51.77	74.00	22.23
7206.000	24.45	AV	V	15.03	39.48	54.00	14.52
Middle Channel:				2441	MHz		
4882.000	34.17	PK	H	11.48	45.65	74.00	28.35
4882.000	22.46	AV	H	11.48	33.94	54.00	20.06
4882.000	35.92	PK	V	11.48	47.40	74.00	26.60
4882.000	25.17	AV	V	11.48	36.65	54.00	17.35
7323.000	35.67	PK	H	15.57	51.24	74.00	22.76
7323.000	22.13	AV	H	15.57	37.70	54.00	16.30
7323.000	36.64	PK	V	15.57	52.21	74.00	21.79
7323.000	24.85	AV	V	15.57	40.42	54.00	13.58
High Channel:				2480	MHz		
2483.500	26.47	PK	H	32.19	58.66	74.00	15.34
2483.500	15.03	AV	H	32.19	47.22	54.00	6.78
2483.500	26.62	PK	V	32.19	58.81	74.00	15.19
2483.500	15.85	AV	V	32.19	48.04	54.00	5.96
4960.000	35.24	PK	H	11.77	47.01	74.00	26.99
4960.000	22.23	AV	H	11.77	34.00	54.00	20.00
4960.000	36.00	PK	V	11.77	47.77	74.00	26.23
4960.000	22.60	AV	V	11.77	34.37	54.00	19.63
7440.000	36.22	PK	H	15.98	52.20	74.00	21.80
7440.000	23.06	AV	H	15.98	39.04	54.00	14.96
7440.000	36.70	PK	V	15.98	52.68	74.00	21.32
7440.000	23.11	AV	V	15.98	39.09	54.00	14.91

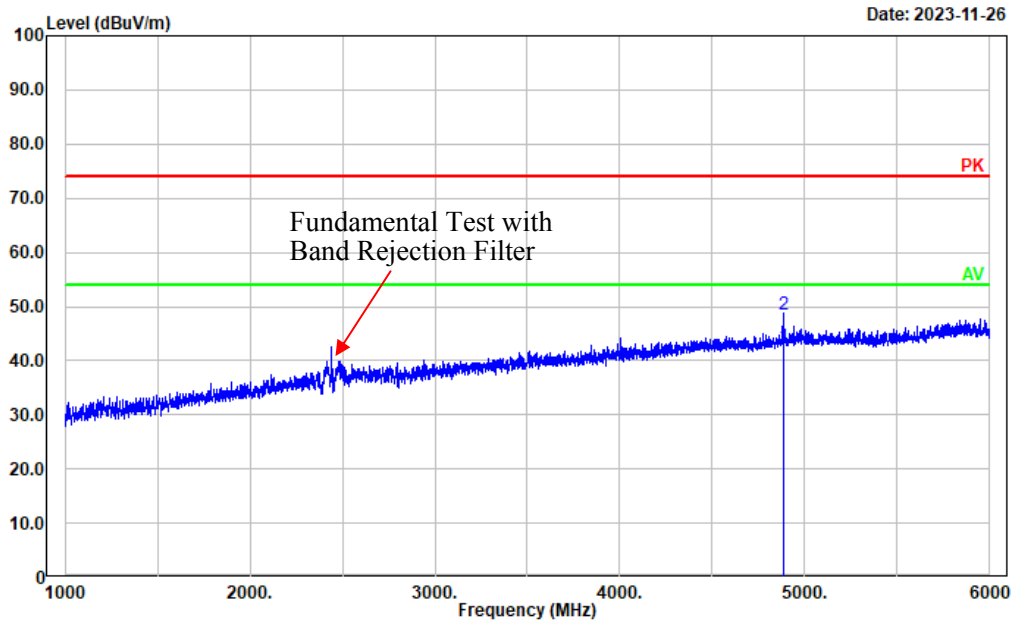
Listed with the worst harmonic margin test plot (Ant 0: BDR Middle channel)

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Horizontal
Note: BDR Middle Channel



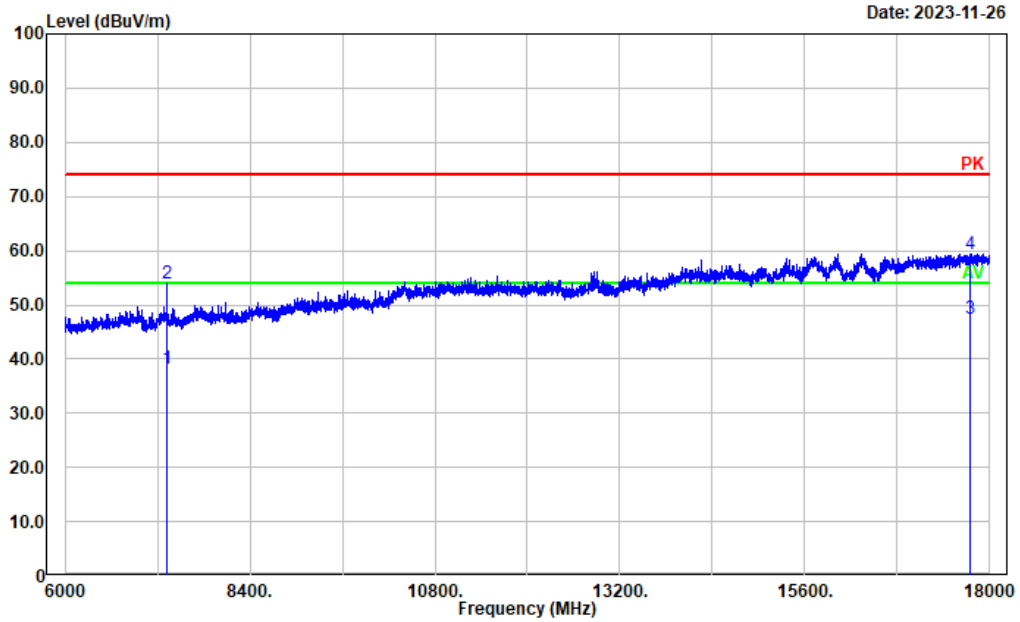
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4882.000	32.65	11.48	44.13	54.00	9.87	Average
2	4882.000	37.93	11.48	49.41	74.00	24.59	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Vertical
Note: BDR Middle Channel



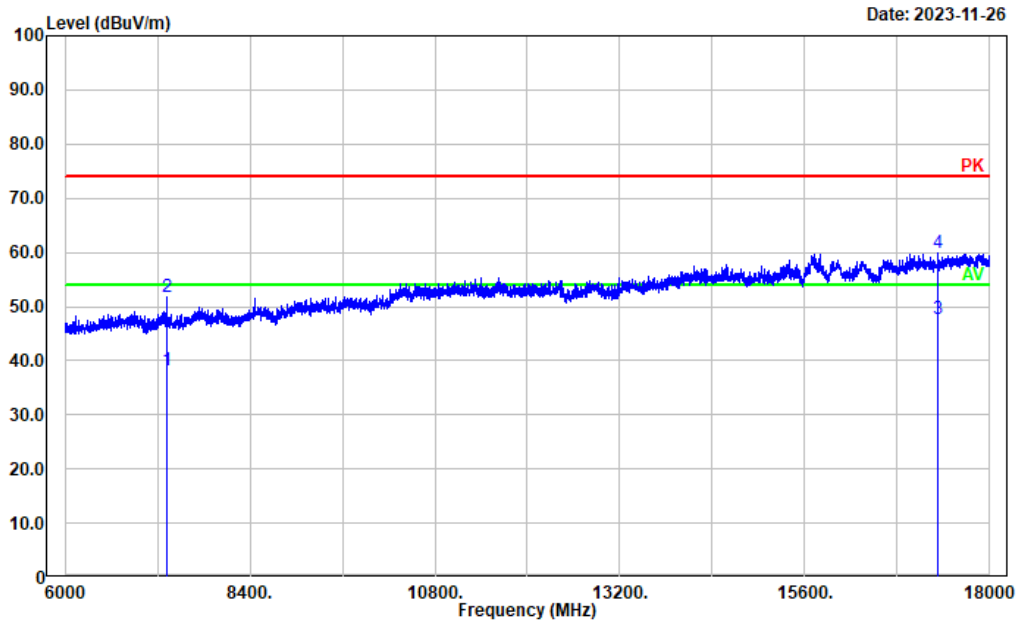
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4882.000	31.19	11.48	42.67	54.00	11.33	Average
2	4882.000	37.12	11.48	48.60	74.00	25.40	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Horizontal
Note: BDR Middle Channel



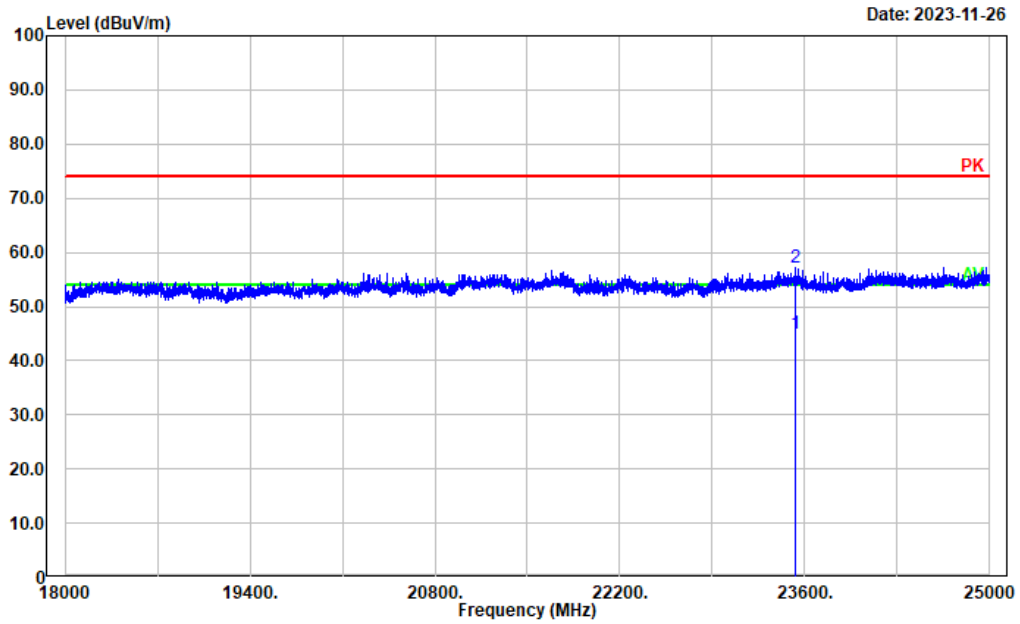
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7323.000	22.66	15.57	38.23	54.00	15.77	Average
2	7323.000	38.29	15.57	53.86	74.00	20.14	Peak
3	17747.950	16.12	31.43	47.55	54.00	6.45	Average
4	17747.950	28.01	31.43	59.44	74.00	14.56	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Vertical
Note: BDR Middle Channel



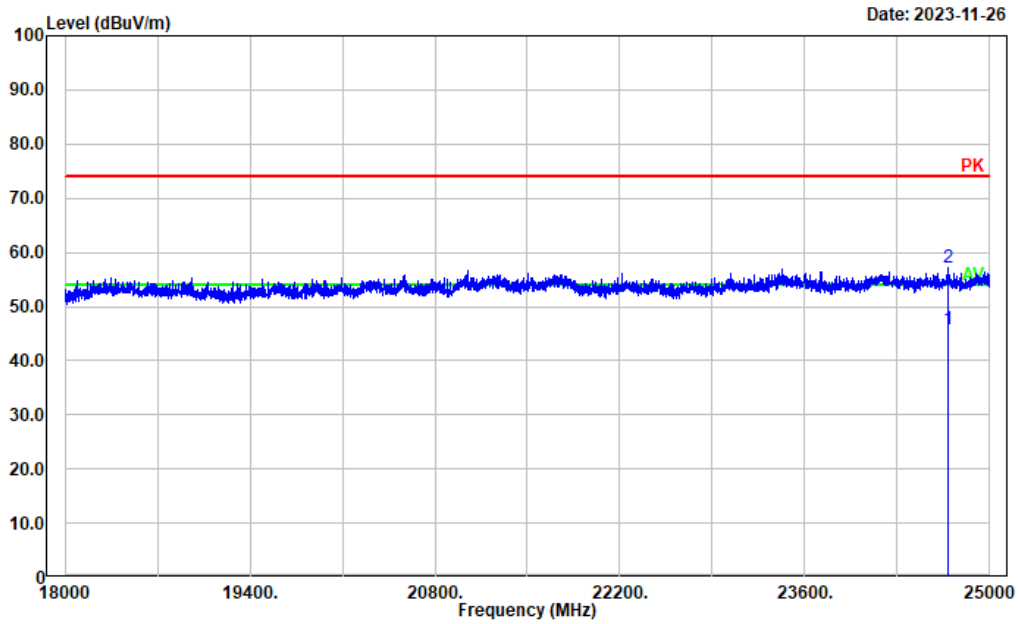
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7323.000	22.57	15.57	38.14	54.00	15.86	Average
2	7323.000	36.07	15.57	51.64	74.00	22.36	Peak
3	17327.870	18.56	29.12	47.68	54.00	6.32	Average
4	17327.870	30.67	29.12	59.79	74.00	14.21	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Horizontal
Note: BDR Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	23526.910	39.81	5.29	45.10	54.00	8.90	Average
2	23526.910	52.00	5.29	57.29	74.00	16.71	Peak

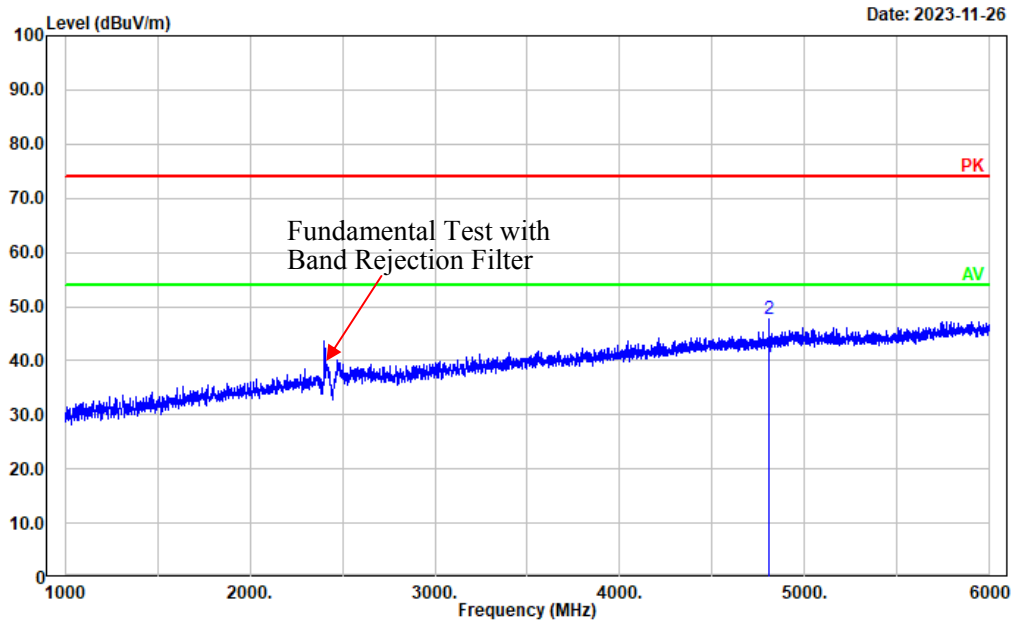
Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Vertical
Note: BDR Middle Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	24679.340	40.38	5.40	45.78	54.00	8.22	Average
2	24679.340	51.84	5.40	57.24	74.00	16.76	Peak

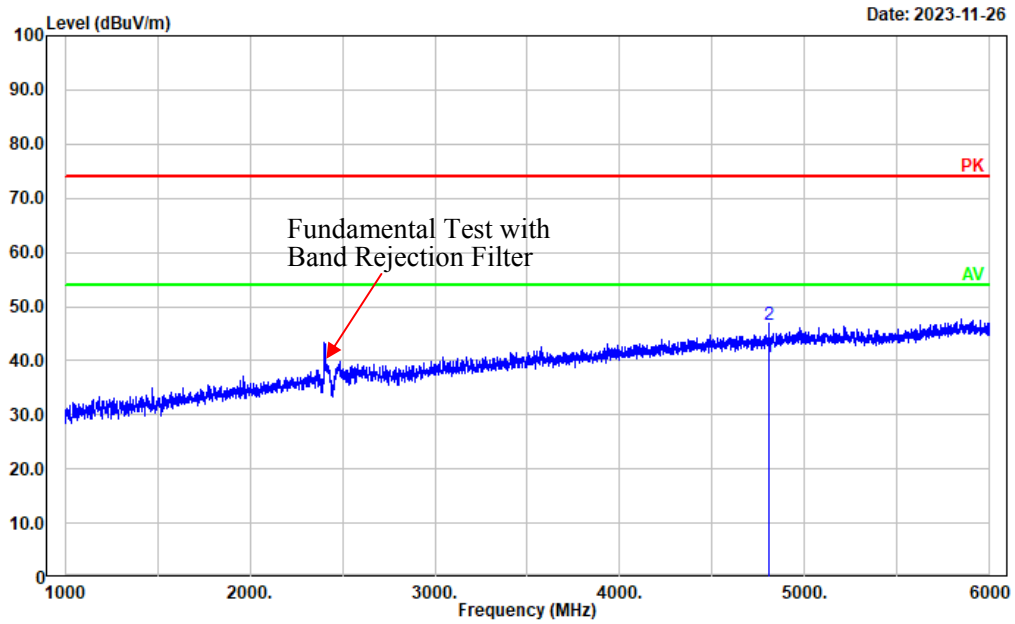
Listed with the worst harmonic margin test plot (Ant 1: BDR Low channel)

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Horizontal
Note: BDR Low Channel



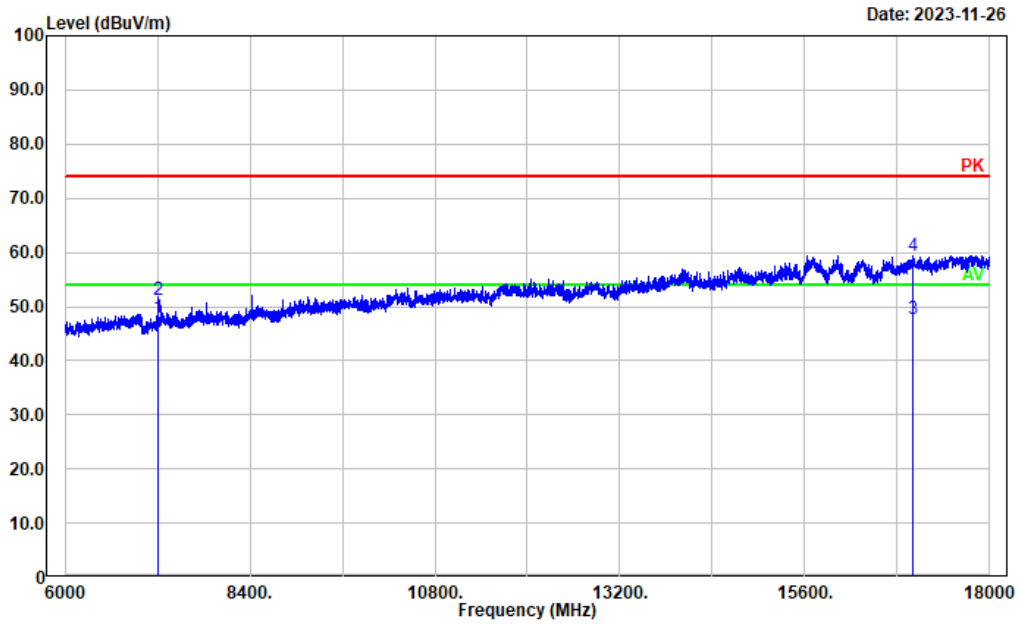
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.000	29.58	11.19	40.77	54.00	13.23	Average
2	4804.000	36.47	11.19	47.66	74.00	26.34	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Vertical
Note: BDR Low Channel



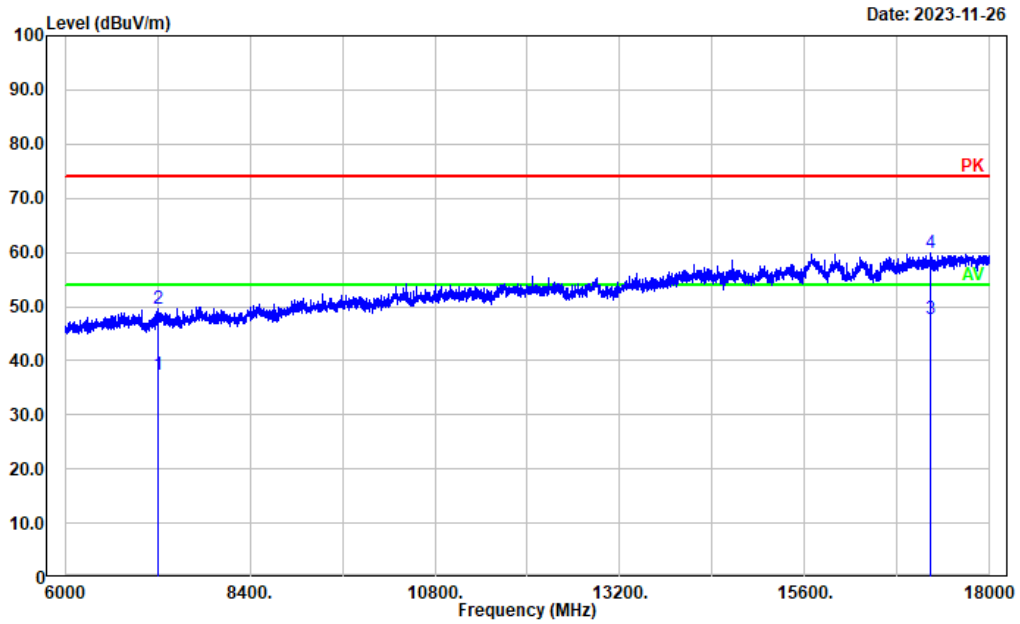
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	4804.000	29.55	11.19	40.74	54.00	13.26	Average
2	4804.000	35.39	11.19	46.58	74.00	27.42	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Horizontal
Note: BDR Low Channel



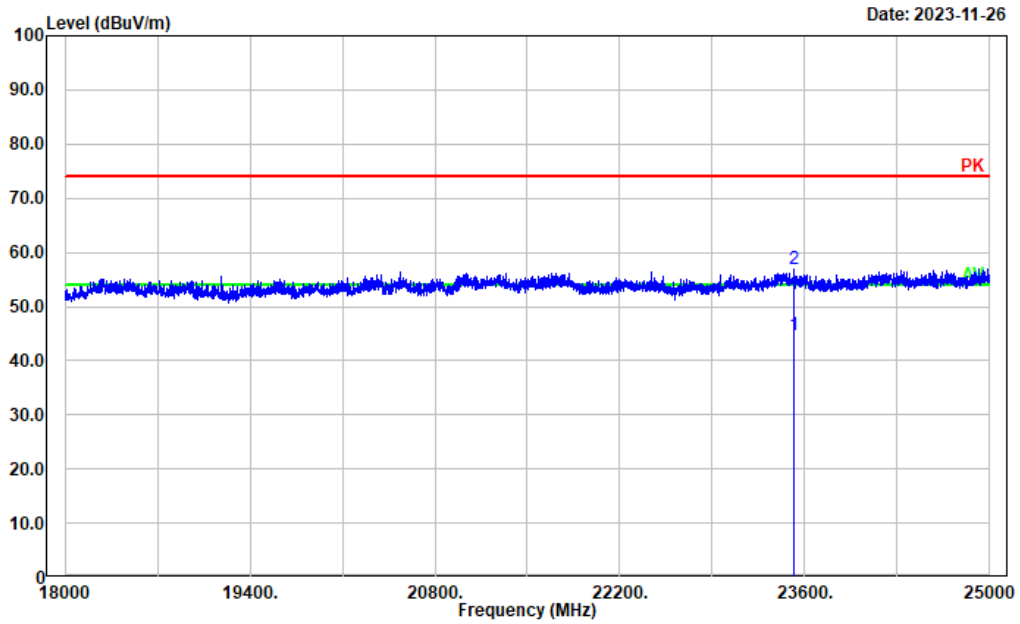
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7206.000	32.87	15.03	47.90	54.00	6.10	Average
2	7206.000	36.19	15.03	51.22	74.00	22.78	Peak
3	16994.200	19.58	28.06	47.64	54.00	6.36	Average
4	16994.200	31.39	28.06	59.45	74.00	14.55	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Vertical
Note: BDR Low Channel



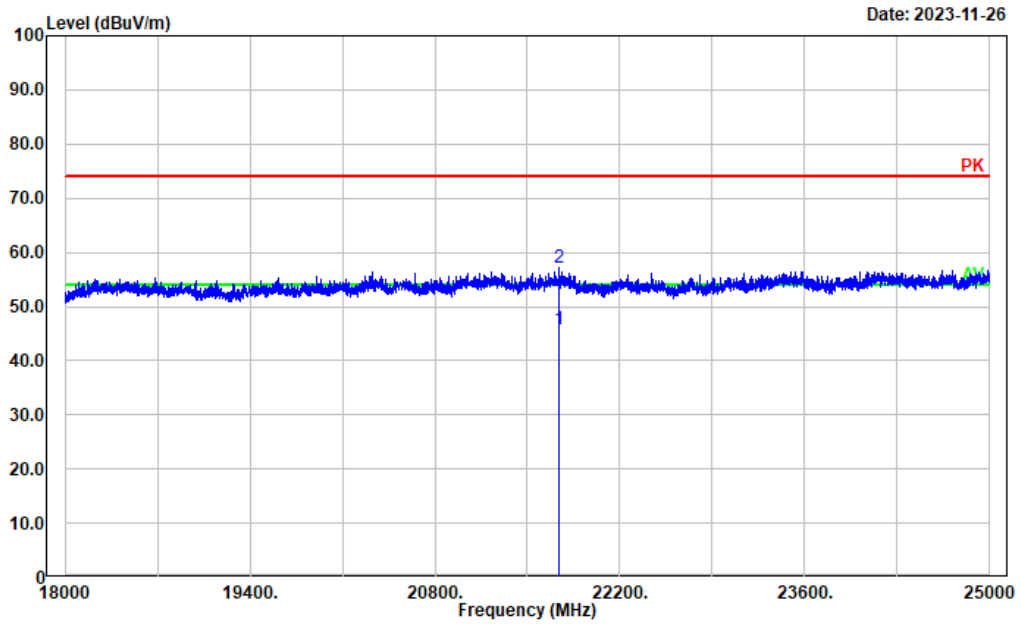
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	7206.000	22.26	15.03	37.29	54.00	16.71	Average
2	7206.000	34.67	15.03	49.70	74.00	24.30	Peak
3	17239.050	18.98	28.71	47.69	54.00	6.31	Average
4	17239.050	31.06	28.71	59.77	74.00	14.23	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Horizontal
Note: BDR Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	23514.300	39.29	5.34	44.63	54.00	9.37	Average
2	23514.300	51.56	5.34	56.90	74.00	17.10	Peak

Project No.: CR231061510-RF
Tester: Mack Huang
Polarization: Vertical
Note: BDR Low Channel



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	21744.350	40.76	5.03	45.79	54.00	8.21	Average
2	21744.350	52.20	5.03	57.23	74.00	16.77	Peak

4.3 20 dB Emission Bandwidth

Serial Number:	2CIM-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	pass

Environmental Conditions:

Temperature: (℃)	24	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.28

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:

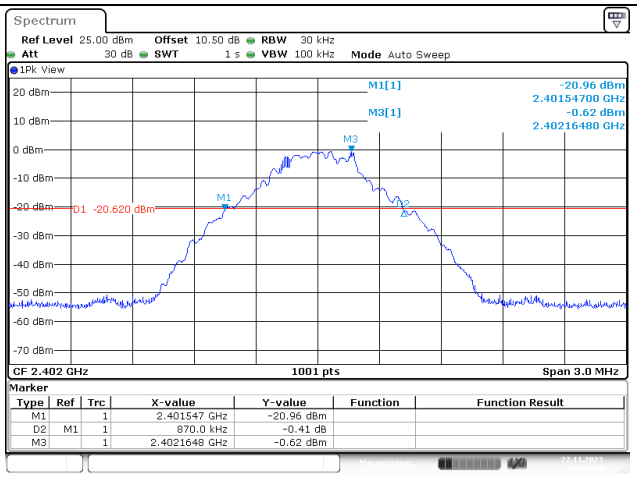
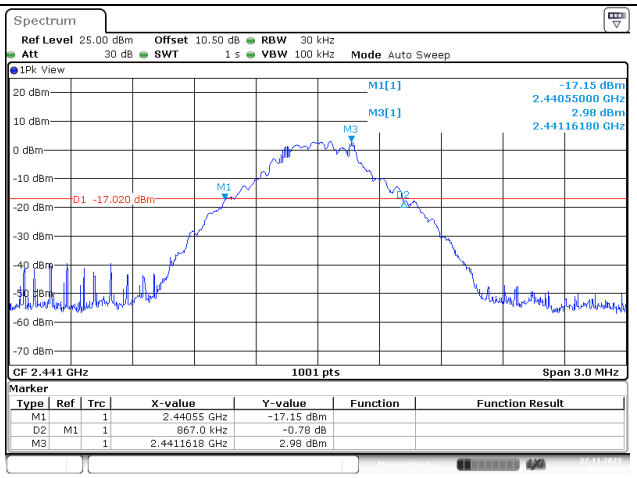
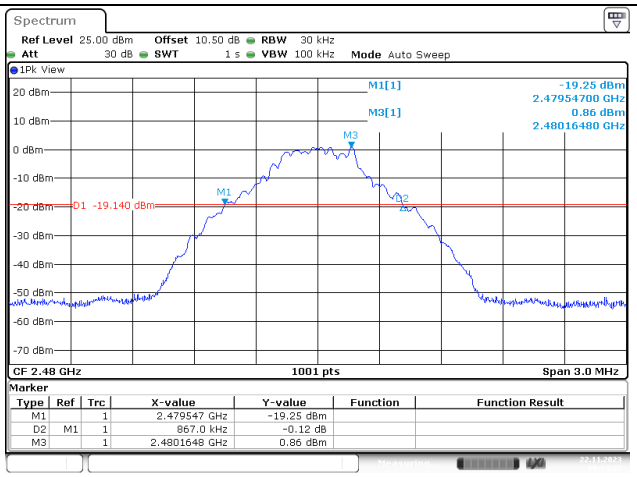
Ant 0:

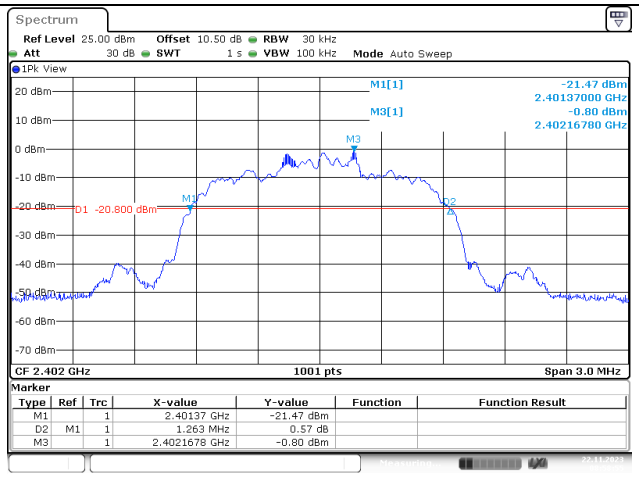
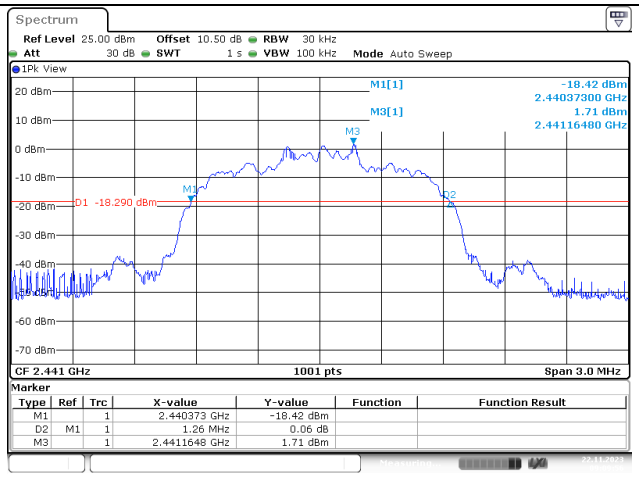
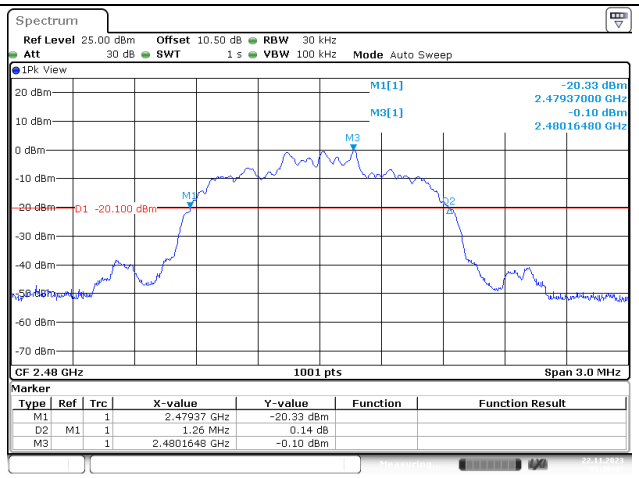
Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.87
	Middle	2441	0.867
	Highest	2480	0.867
EDR Mode (π/4-DQPSK)	Lowest	2402	1.263
	Middle	2441	1.26
	Highest	2480	1.26
EDR Mode (8DPSK)	Lowest	2402	1.26
	Middle	2441	1.26
	Highest	2480	1.26

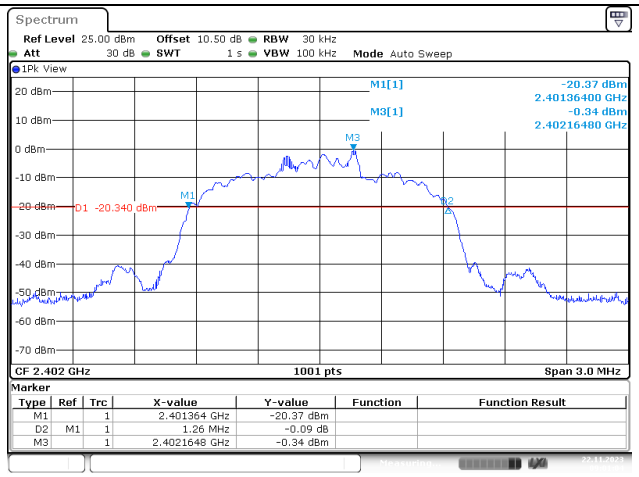
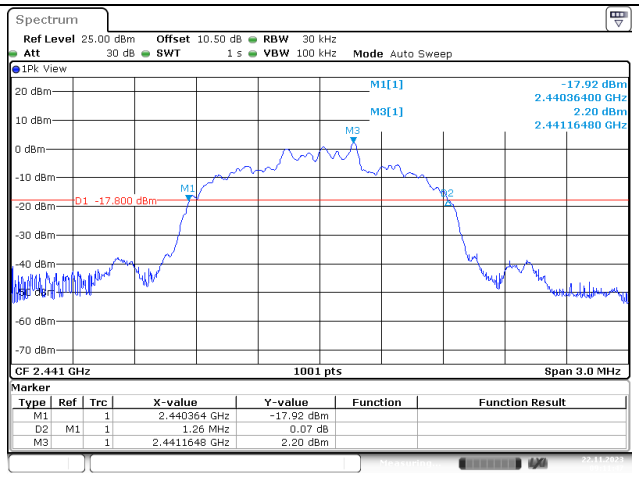
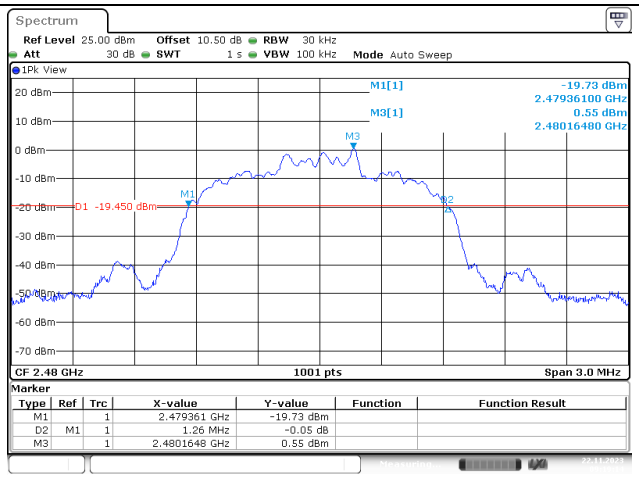
Ant 1:

Test Modes	Test Channel	Test Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Lowest	2402	0.864
	Middle	2441	0.861
	Highest	2480	0.864
EDR Mode (π/4-DQPSK)	Lowest	2402	1.263
	Middle	2441	1.263
	Highest	2480	1.263
EDR Mode (8DPSK)	Lowest	2402	1.26
	Middle	2441	1.26
	Highest	2480	1.26

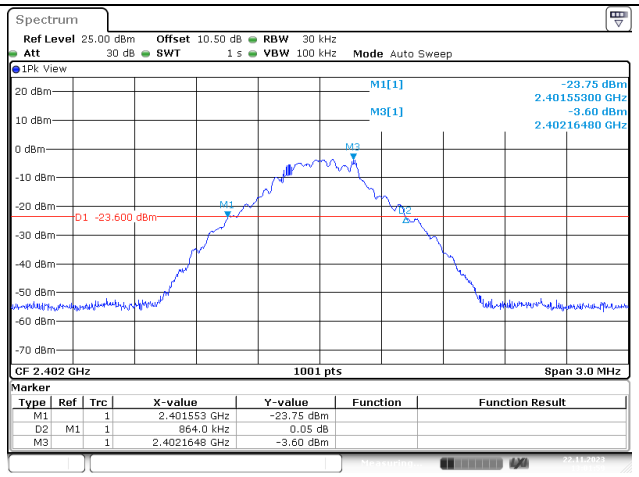
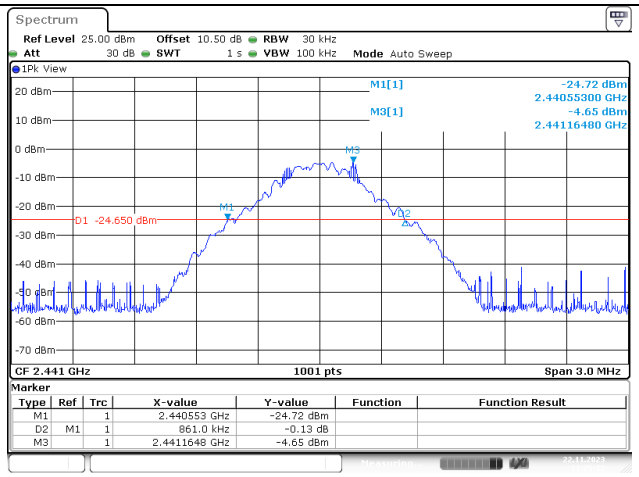
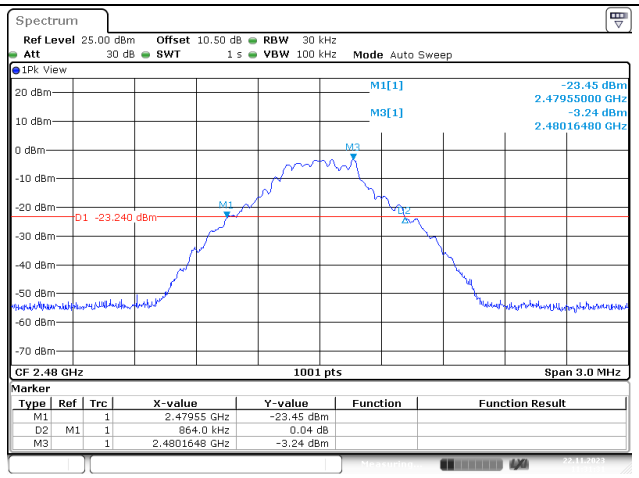
Ant 0:

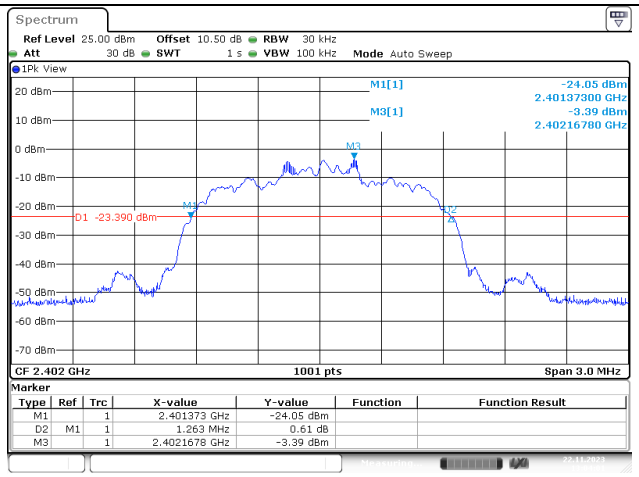
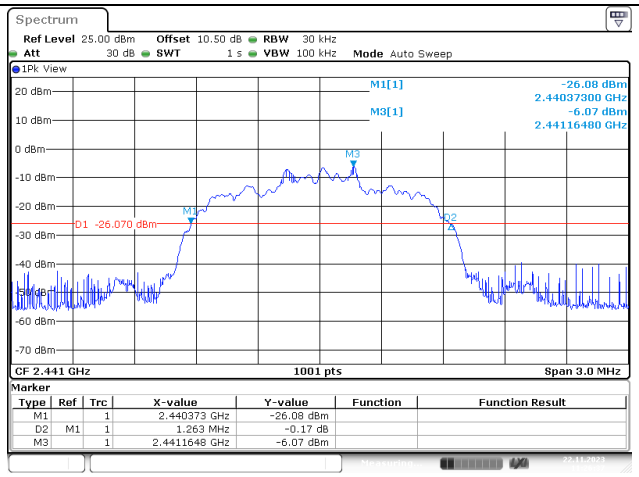
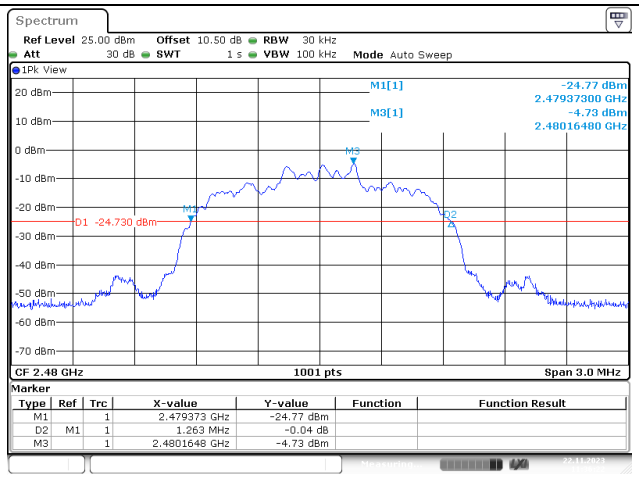
BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

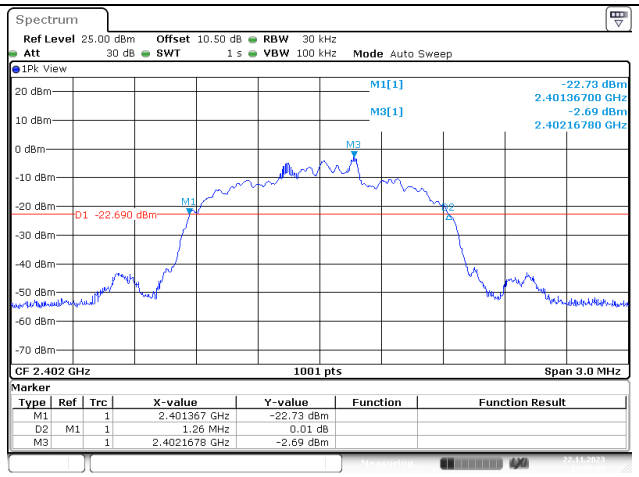
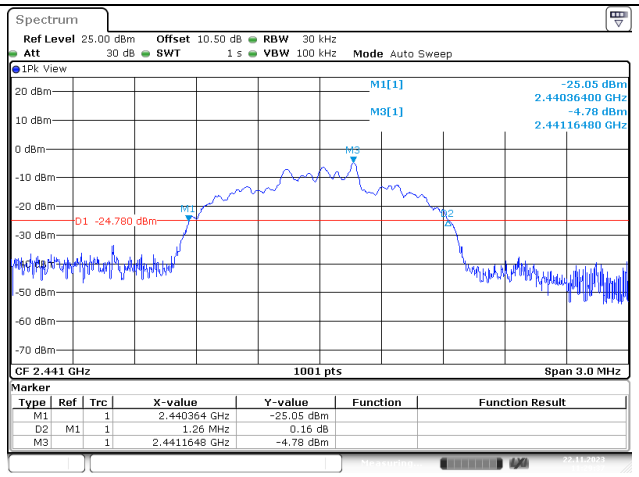
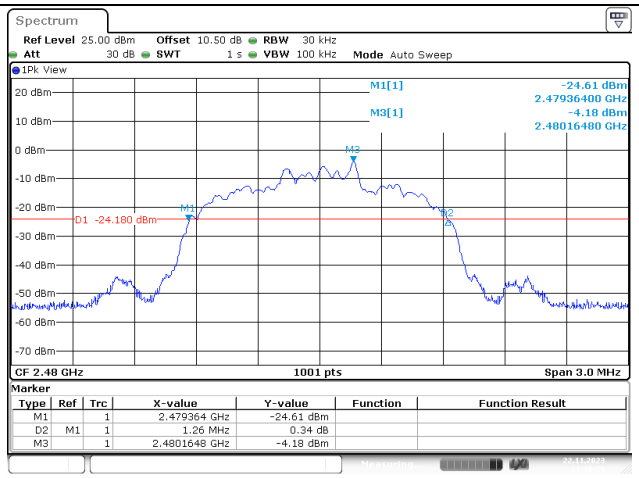
EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

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

Ant 1:

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:	2CIM-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.28

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:

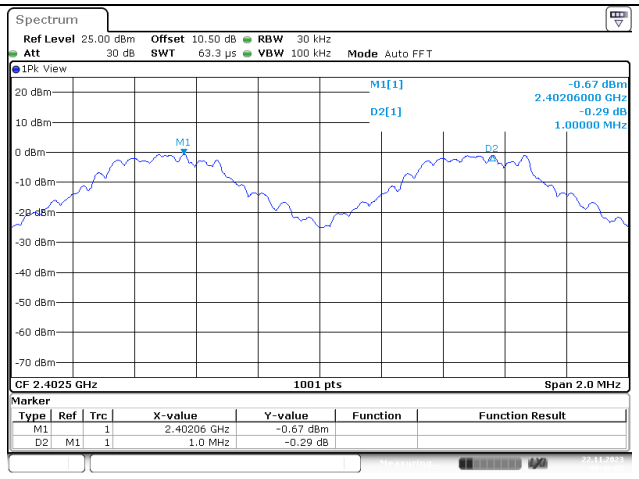
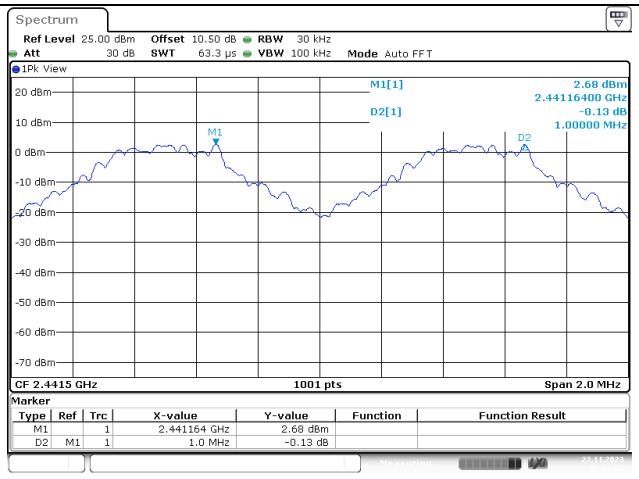
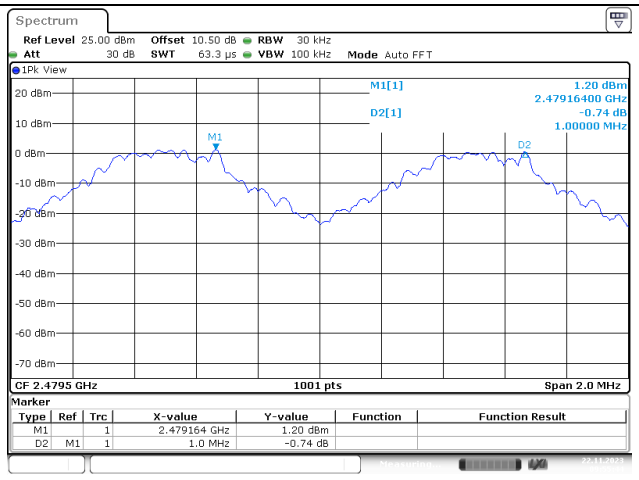
Ant 0:

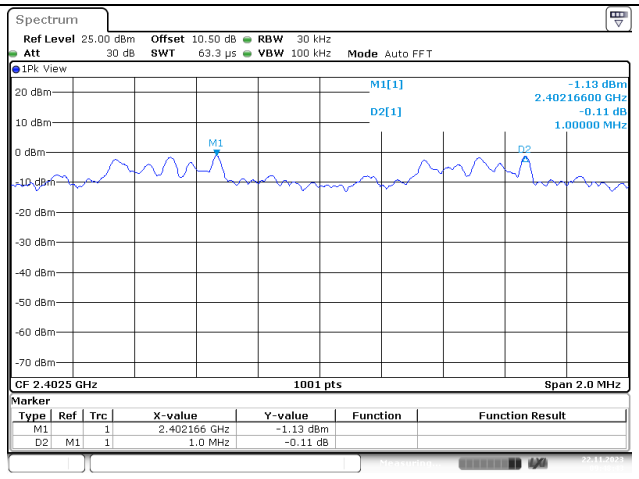
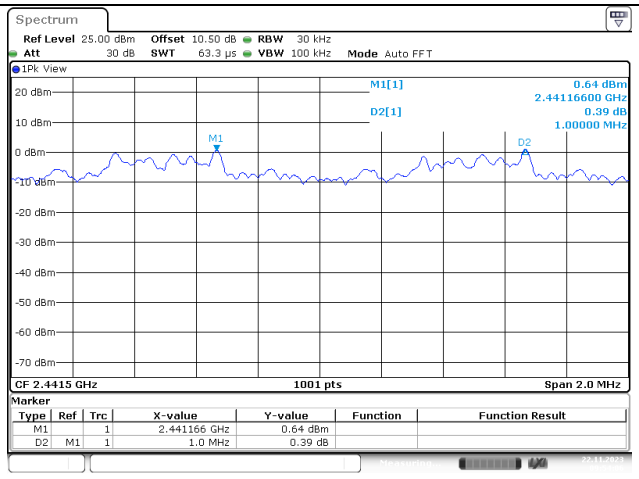
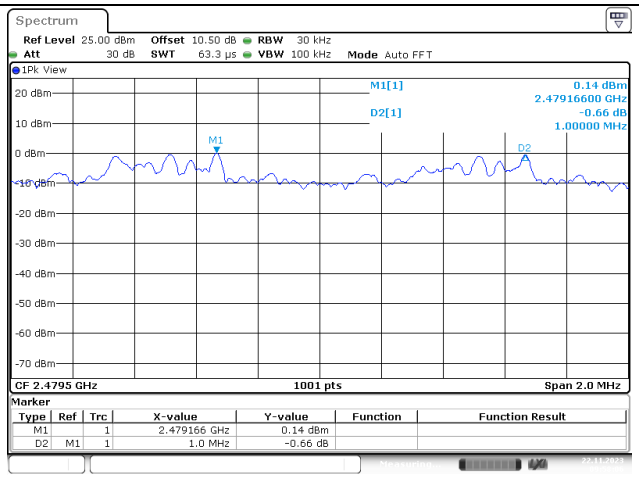
Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1	0.580
	2441	1	0.578
	2480	1	0.578
EDR Mode (π/4-DQPSK)	2402	1	0.842
	2441	1	0.840
	2480	1	0.840
EDR Mode (8DPSK)	2402	1	0.840
	2441	1	0.840
	2480	1.002	0.840

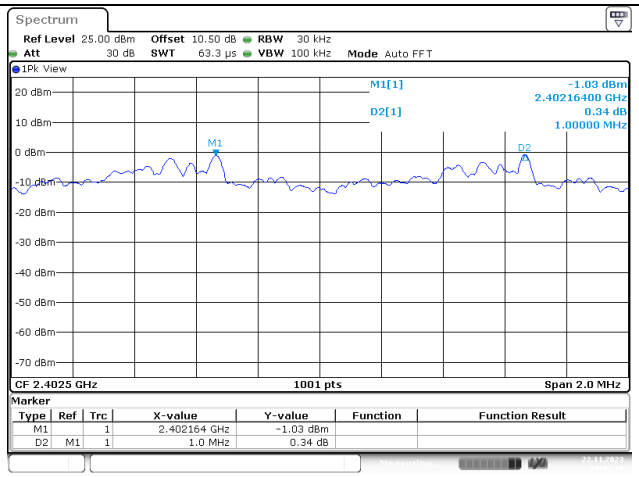
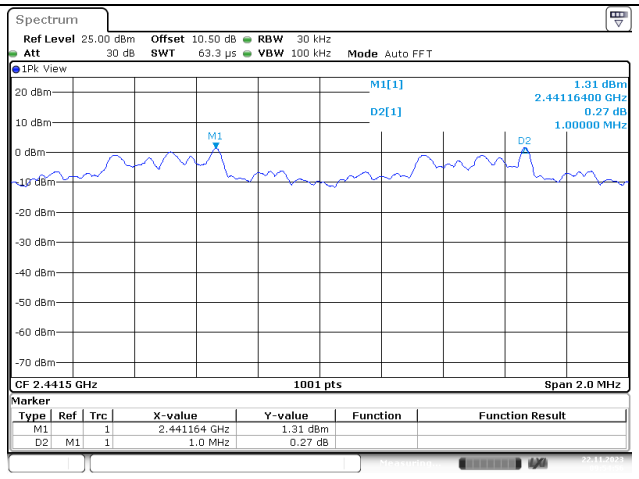
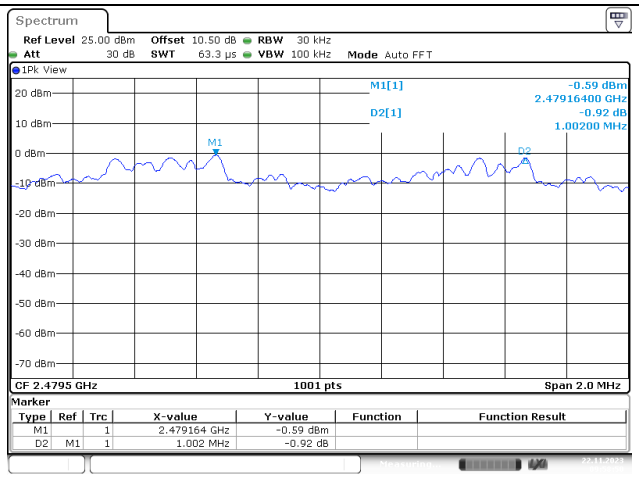
Ant 1:

Test Modes	Test Frequency (MHz)	Channel Separation (MHz)	Limits (MHz)
BDR Mode (GFSK)	2402	1	0.576
	2441	1	0.574
	2480	1	0.576
EDR Mode (π/4-DQPSK)	2402	1.002	0.842
	2441	1.002	0.842
	2480	1.002	0.842
EDR Mode (8DPSK)	2402	1.002	0.840
	2441	1.002	0.840
	2480	1	0.840

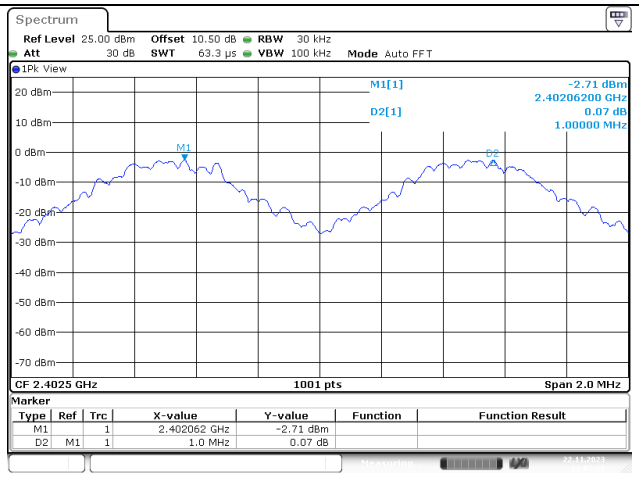
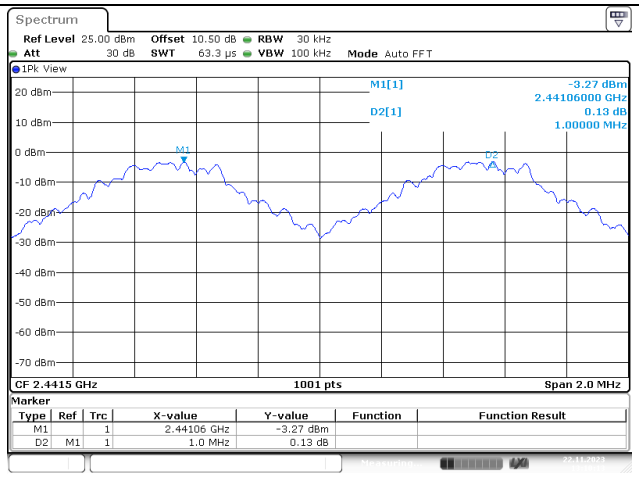
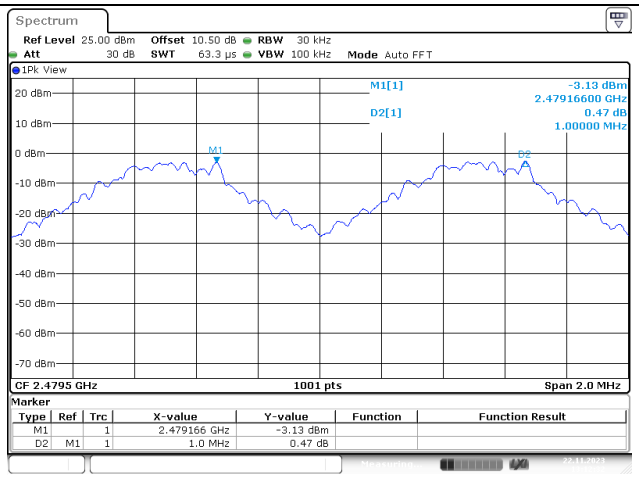
Ant 0:

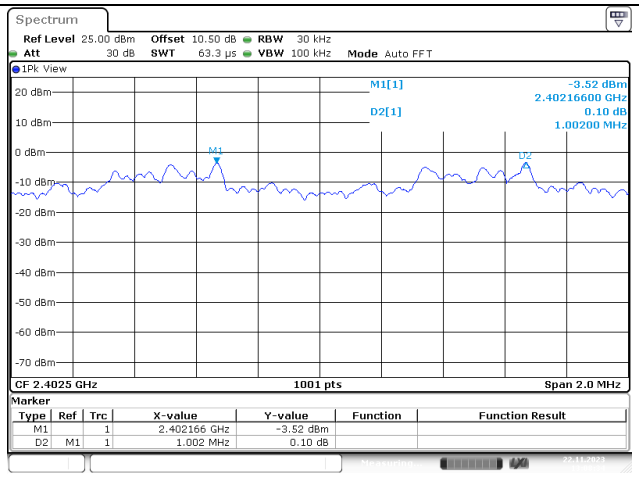
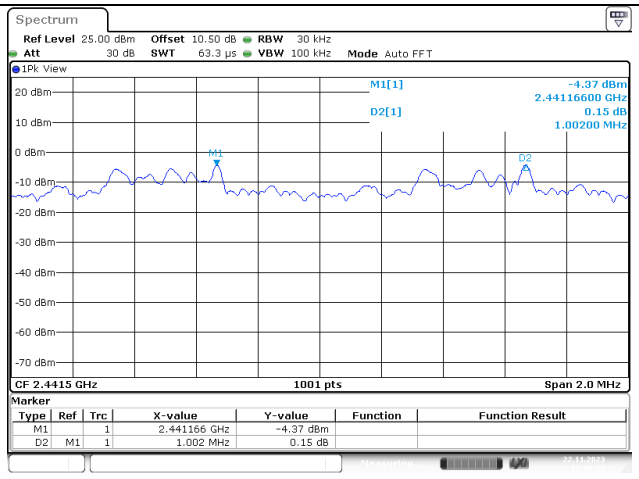
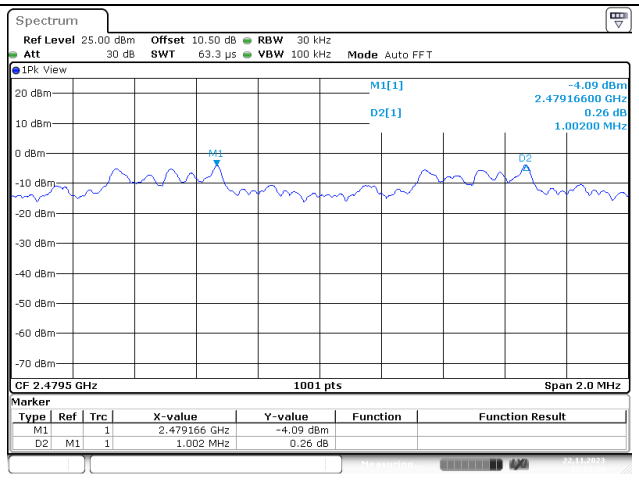
BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

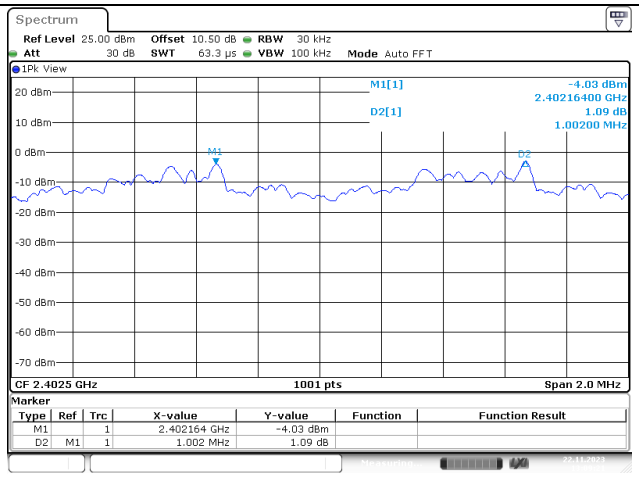
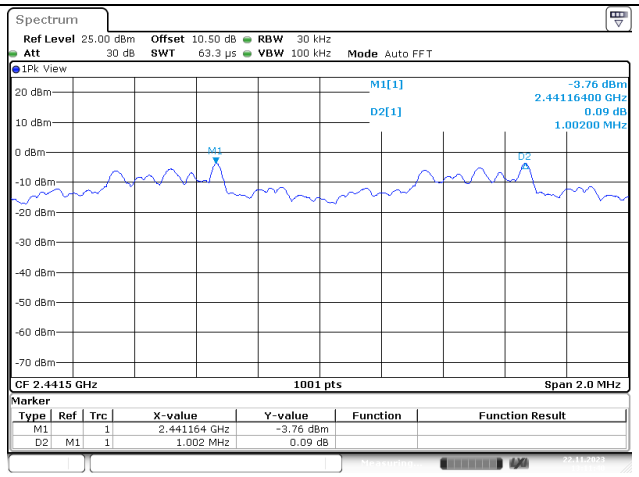
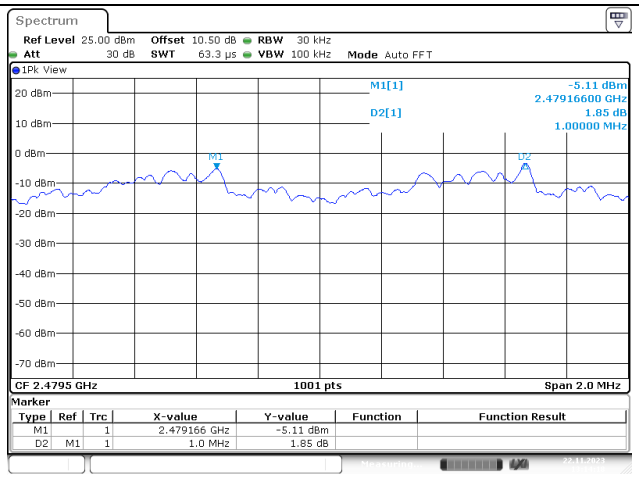
EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

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

Ant 1:

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:	2CIM-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.28

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:

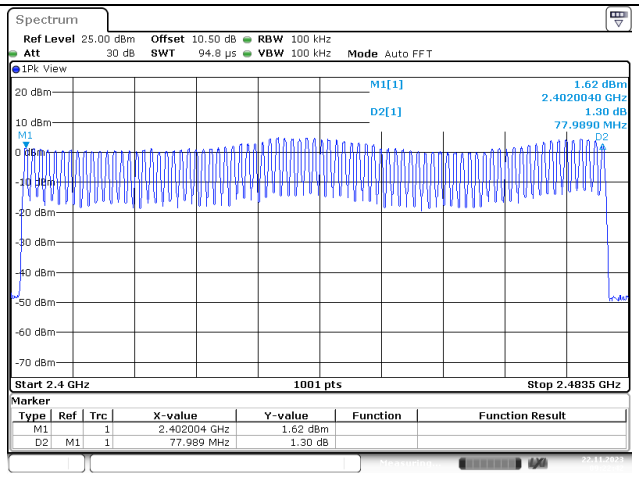
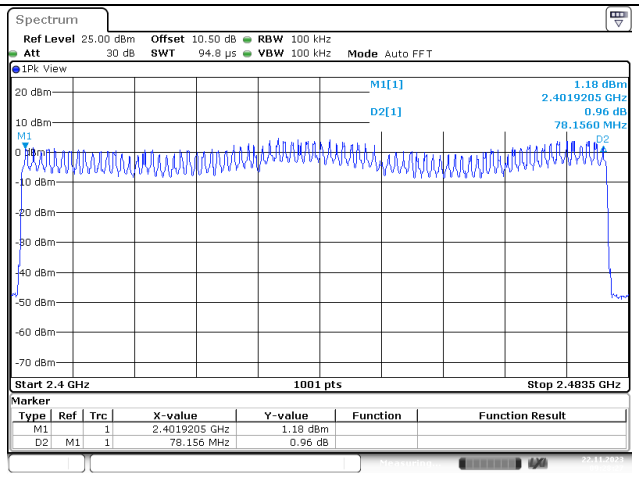
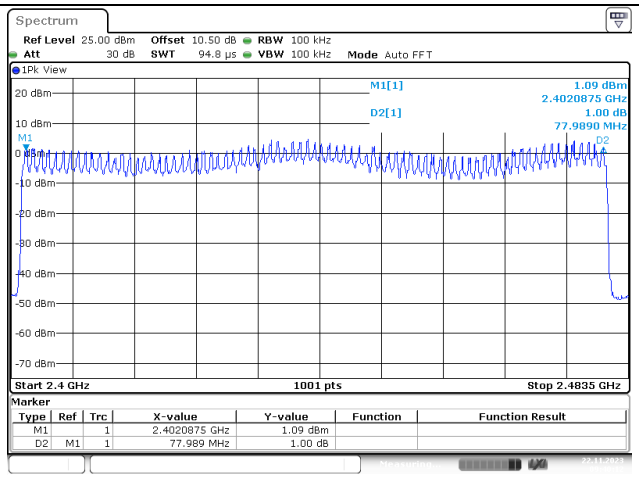
Ant 0:

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

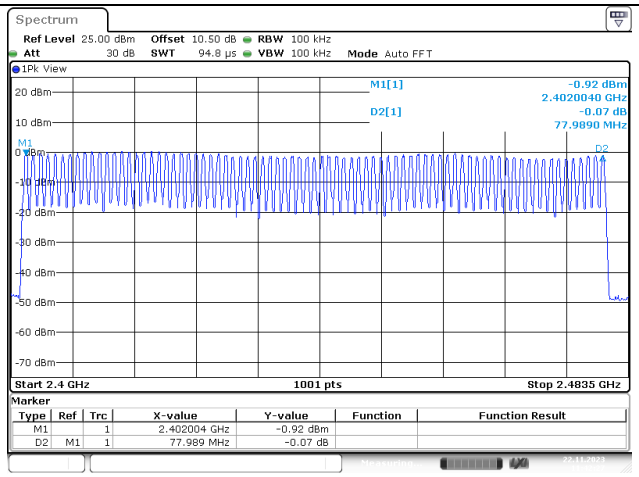
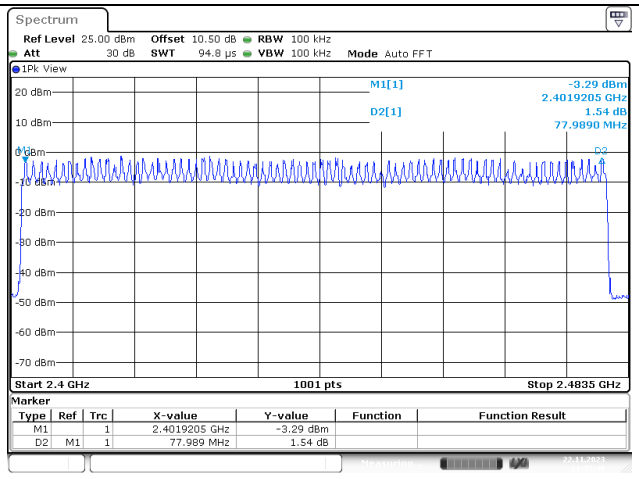
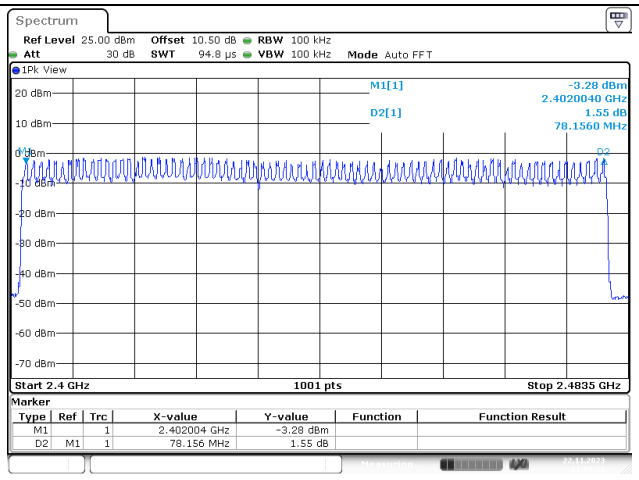
Ant 1:

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

Ant 0:

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

Ant 1:

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

4.6 Time Of Occupancy (Dwell Time)

Serial Number:	2CIM-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.28

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:
Ant 0:

Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.375	0.120	0.400
	DH3	2441	1.635	0.262	0.400
	DH5	2441	2.880	0.307	0.400
EDR Mode (π/4-DQPSK)	2DH1	2441	0.384	0.123	0.400
	2DH3	2441	1.638	0.262	0.400
	2DH5	2441	2.890	0.308	0.400
EDR Mode (8DPSK)	3DH1	2441	0.384	0.123	0.400
	3DH3	2441	1.638	0.262	0.400
	3DH5	2441	2.890	0.308	0.400

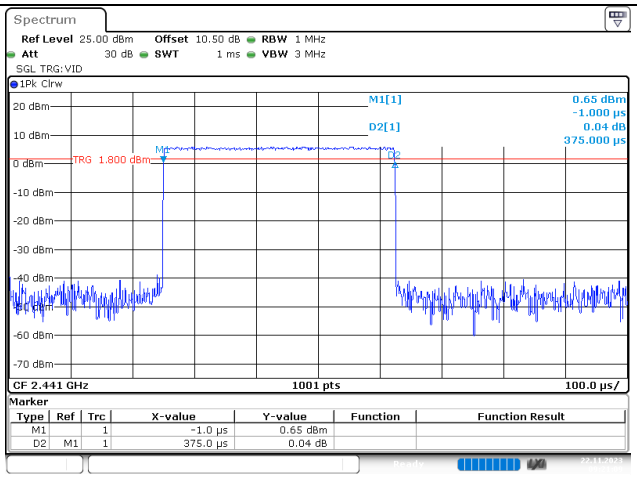
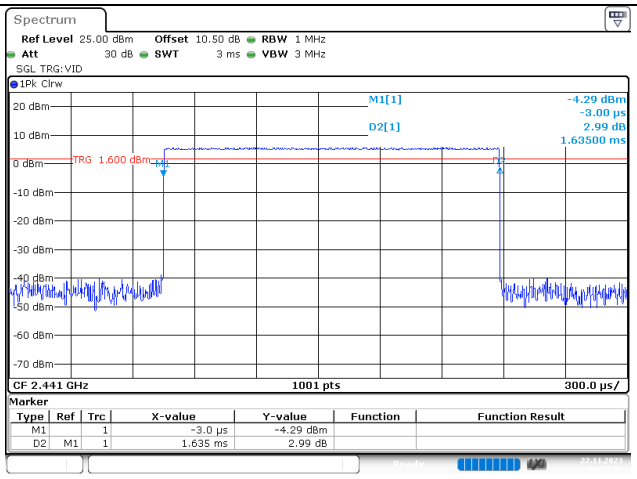
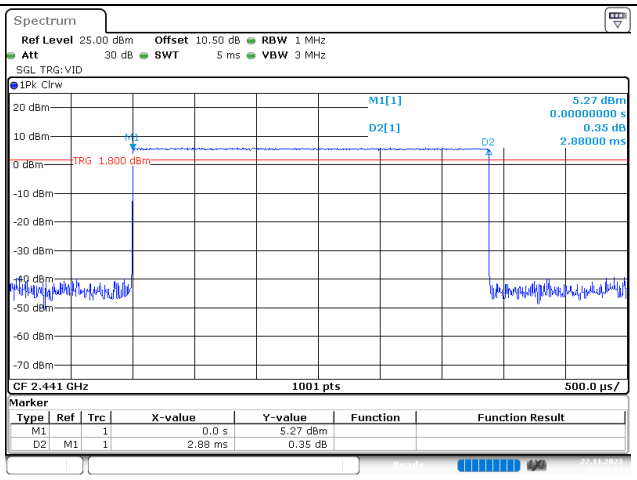
Note:
DH1:Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s
DH3:Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s
DH5:Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s

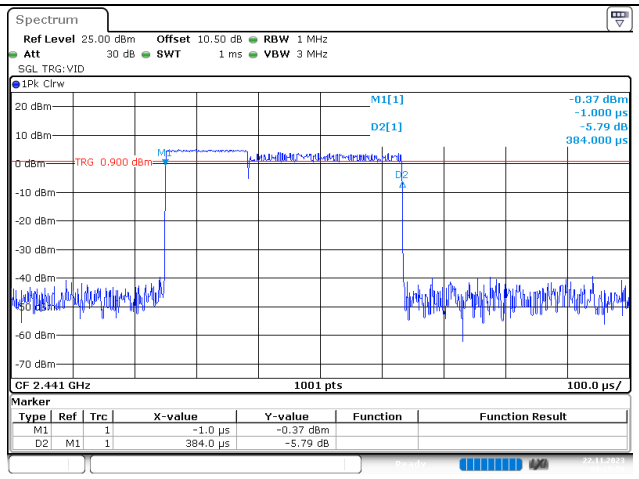
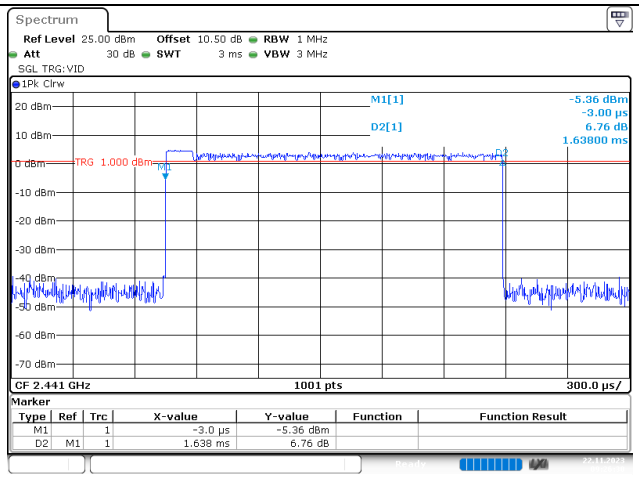
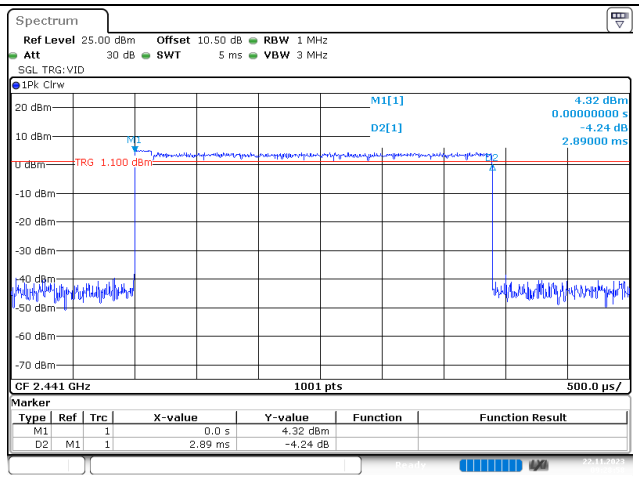
Ant 1:

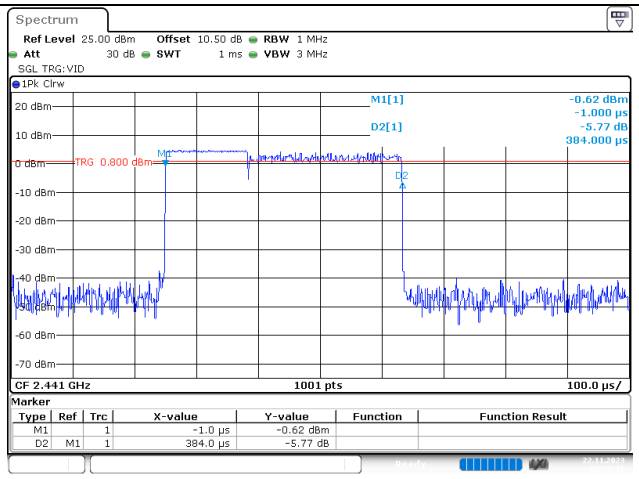
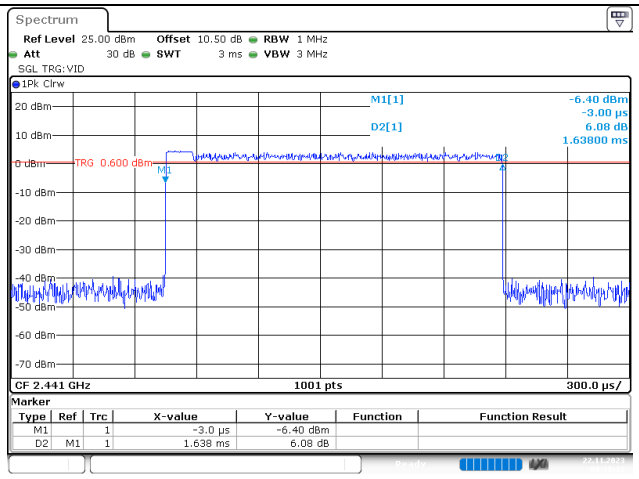
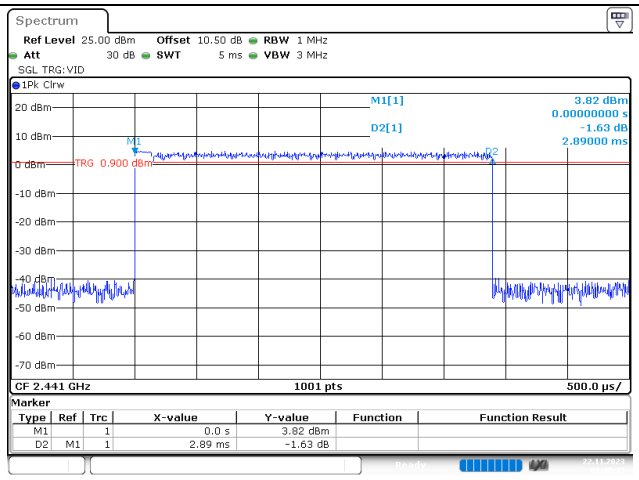
Test Modes	Packet Type	Test Frequency (MHz)	Pulse width (ms)	Result (s)	Limit (s)
BDR Mode (GFSK)	DH1	2441	0.375	0.120	0.400
	DH3	2441	1.635	0.262	0.400
	DH5	2441	2.880	0.307	0.400
EDR Mode (π/4-DQPSK)	2DH1	2441	0.384	0.123	0.400
	2DH3	2441	1.638	0.262	0.400
	2DH5	2441	2.885	0.308	0.400
EDR Mode (8DPSK)	3DH1	2441	0.384	0.123	0.400
	3DH3	2441	1.638	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

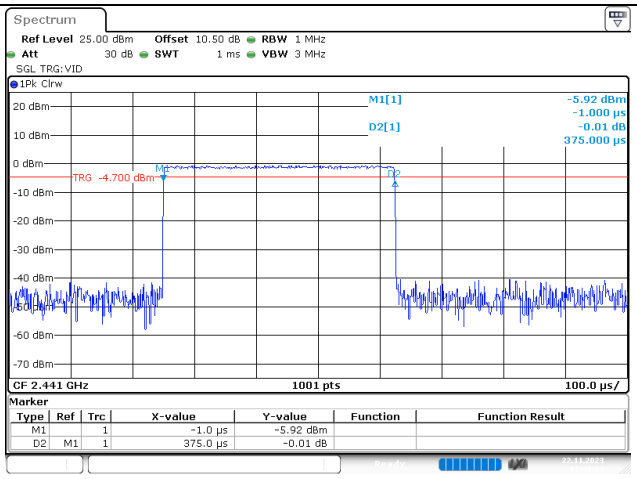
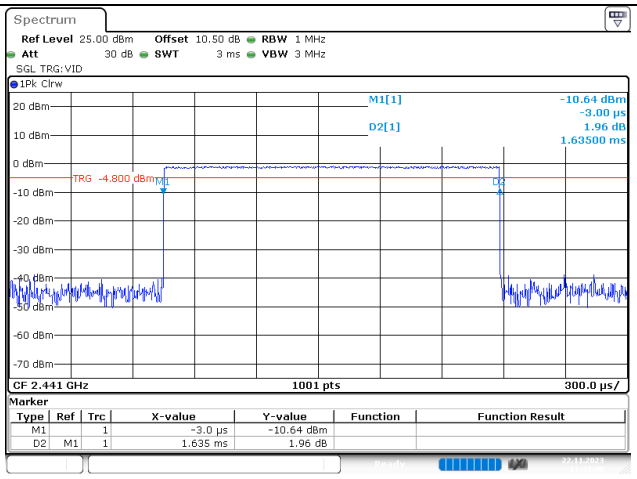
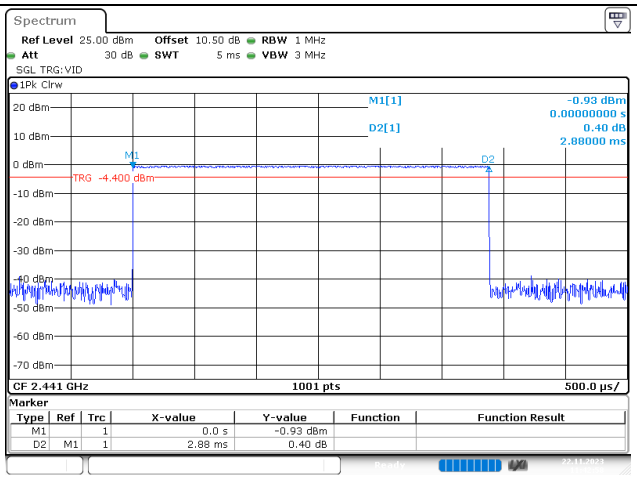
Ant 0:

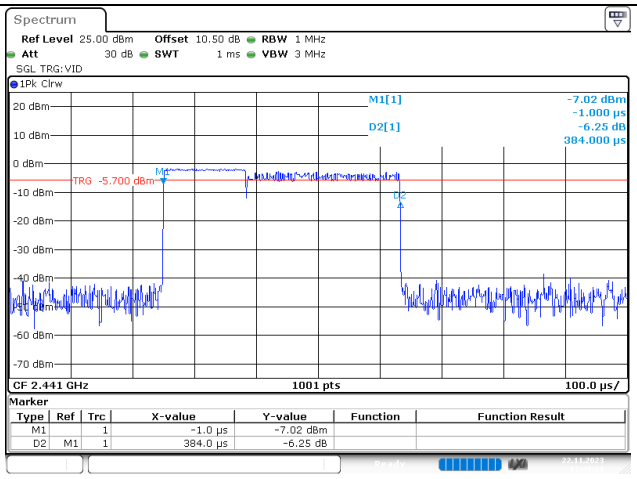
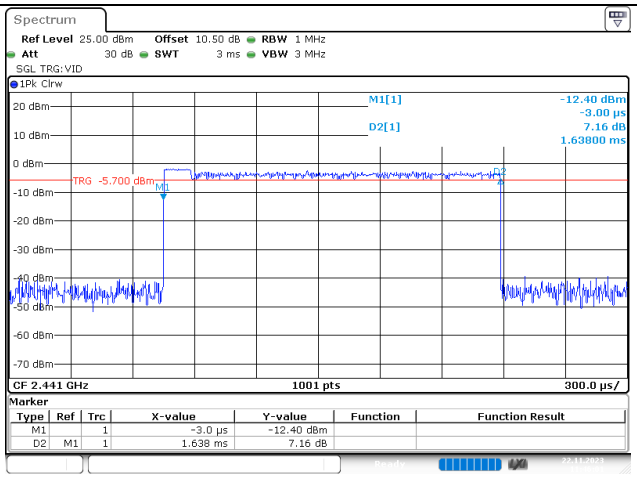
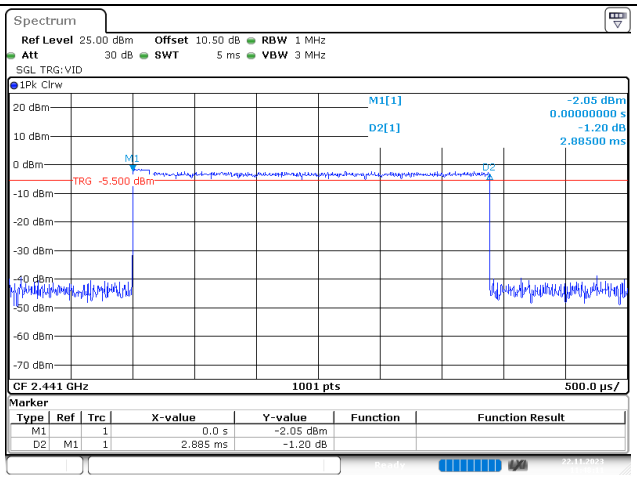
BDR Mode (GFSK)	
DH1:	
DH3:	
DH5:	

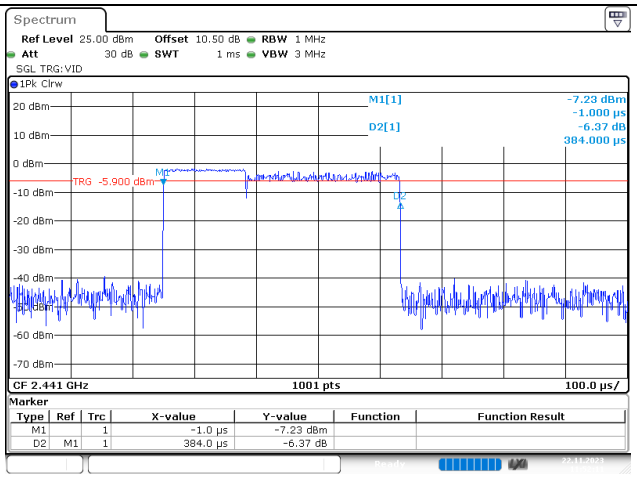
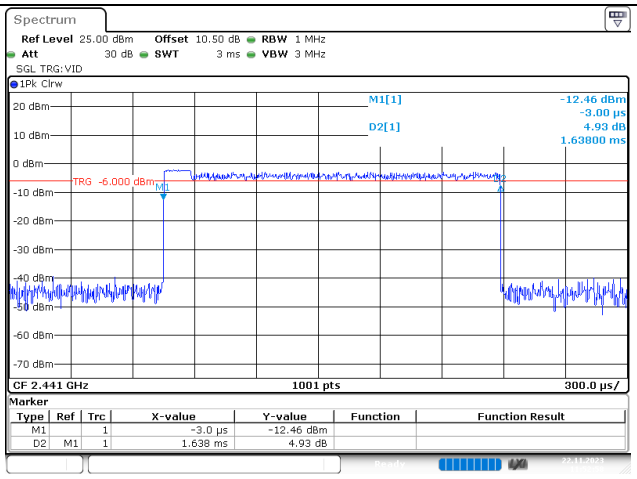
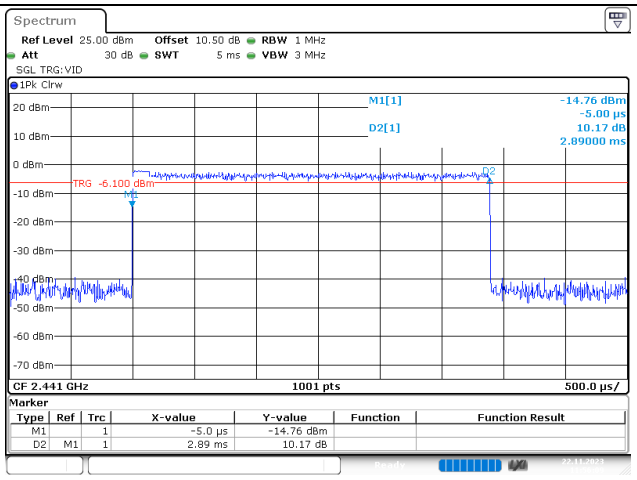
EDR Mode (π/4-DQPSK)	
2DH1:	
2DH3:	
2DH5:	

EDR Mode (8DPSK)	
3DH1:	
3DH3:	
3DH5:	

Ant 1:

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:	2CIM-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.28

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:

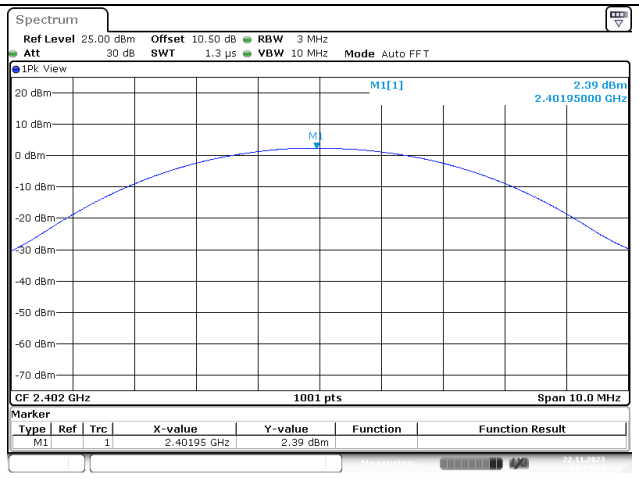
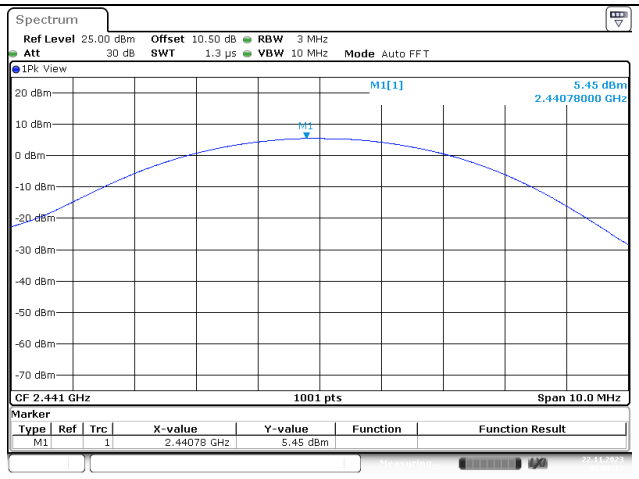
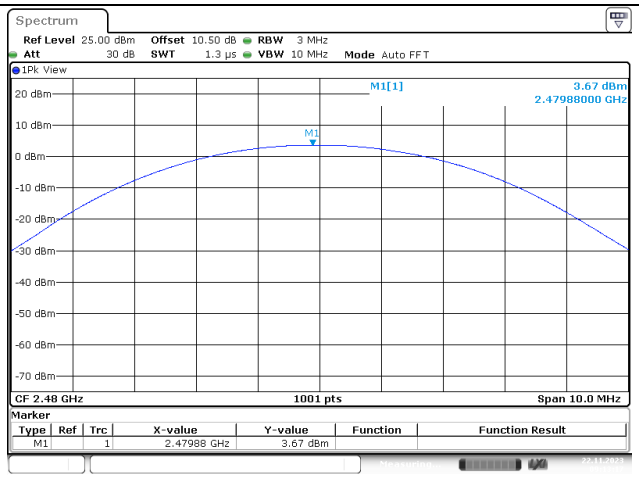
Ant 0:

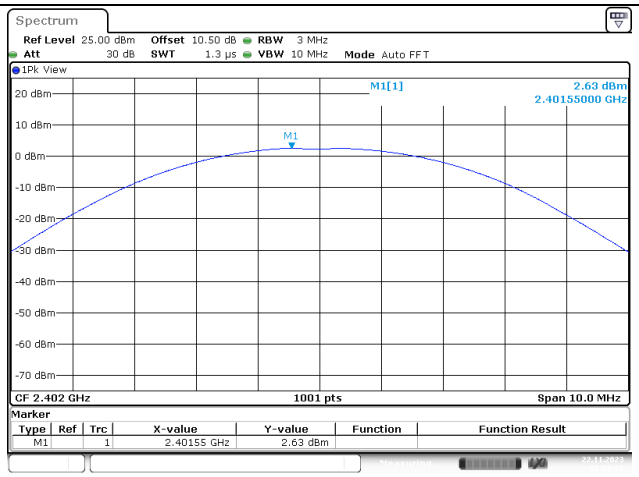
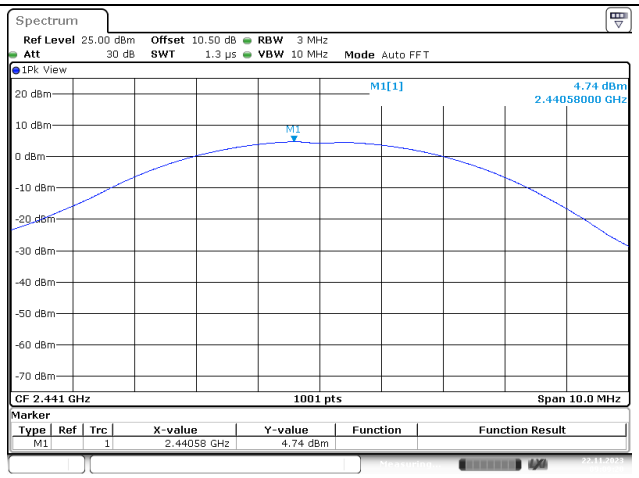
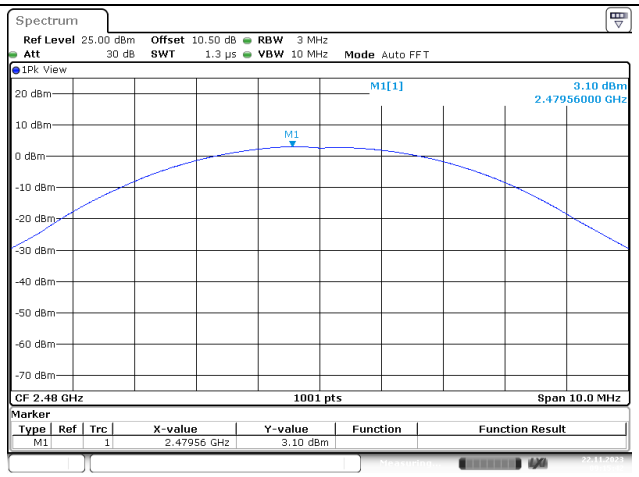
Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	2.39	21
	2441	5.45	21
	2480	3.67	21
EDR Mode (π/4-DQPSK)	2402	2.63	21
	2441	4.74	21
	2480	3.10	21
EDR Mode (8DPSK)	2402	2.45	21
	2441	4.53	21
	2480	3.03	21

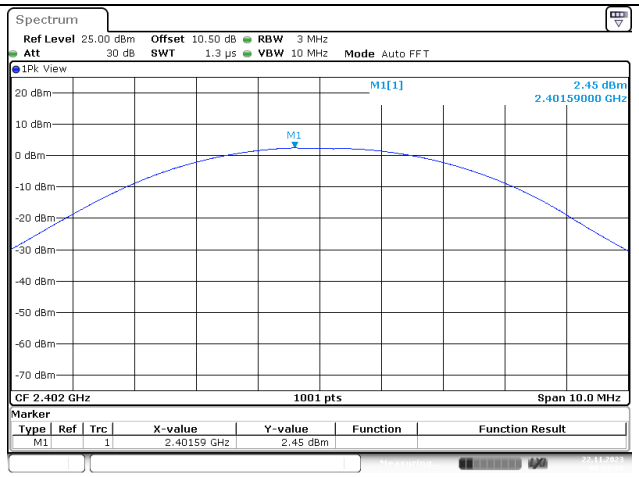
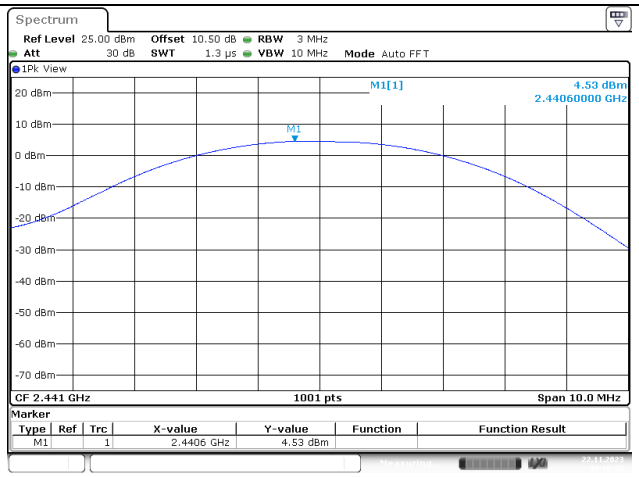
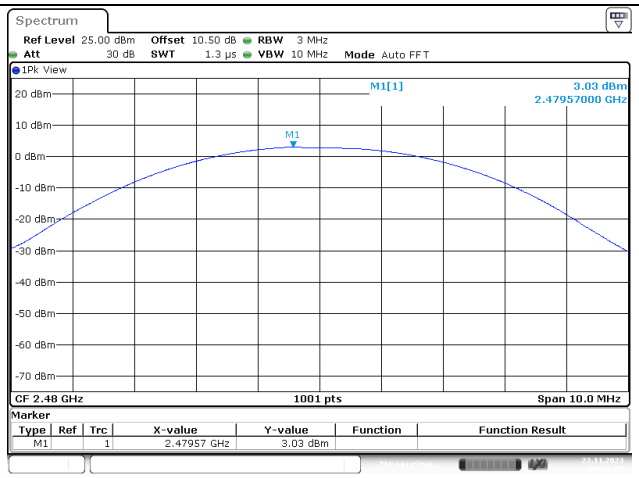
Ant 1:

Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	-0.48	21
	2441	-1.78	21
	2480	-0.59	21
EDR Mode (π/4-DQPSK)	2402	-0.66	21
	2441	-1.98	21
	2480	-1.36	21
EDR Mode (8DPSK)	2402	-0.46	21
	2441	-2.53	21
	2480	-1.50	21

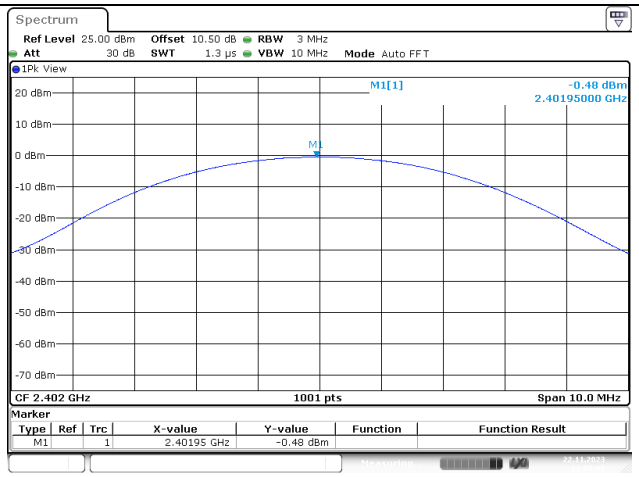
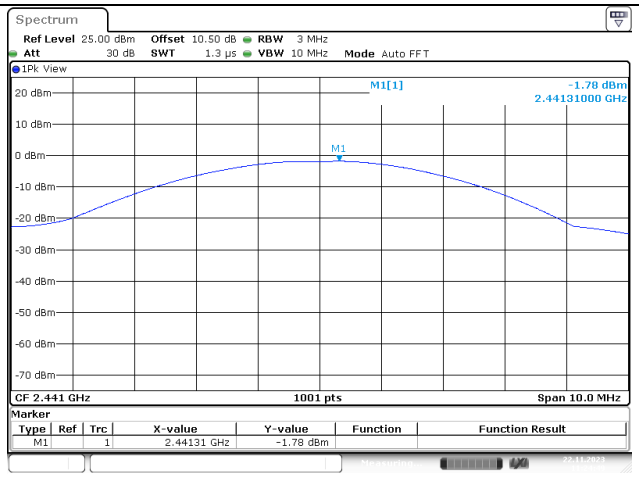
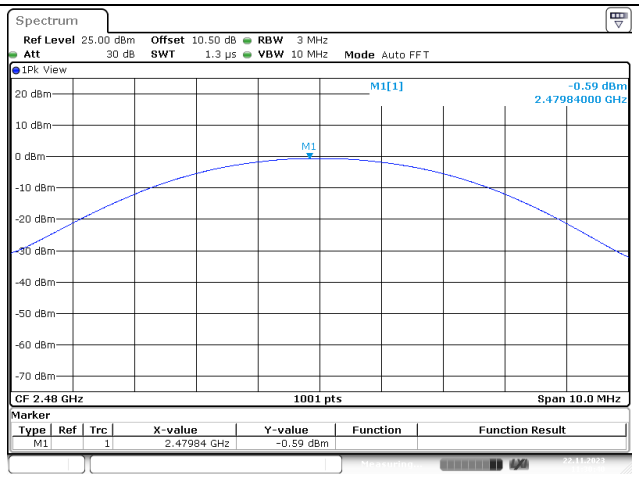
Ant 0:

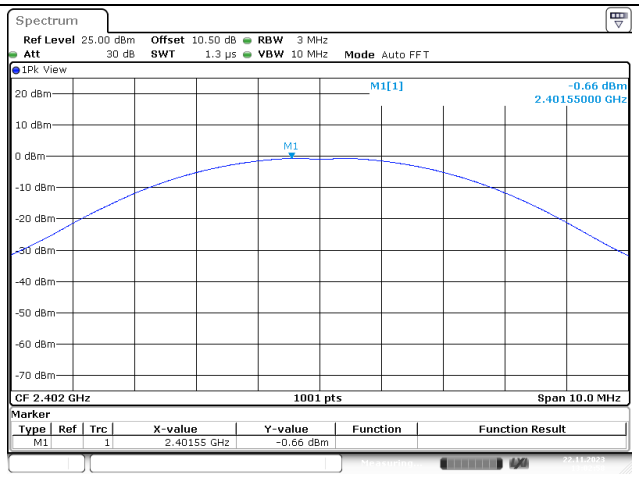
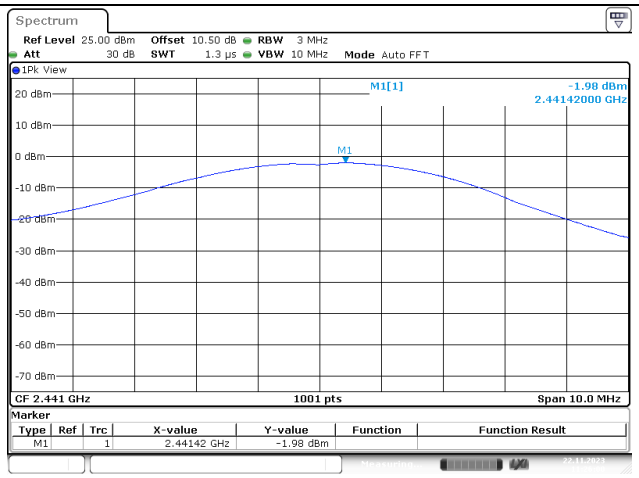
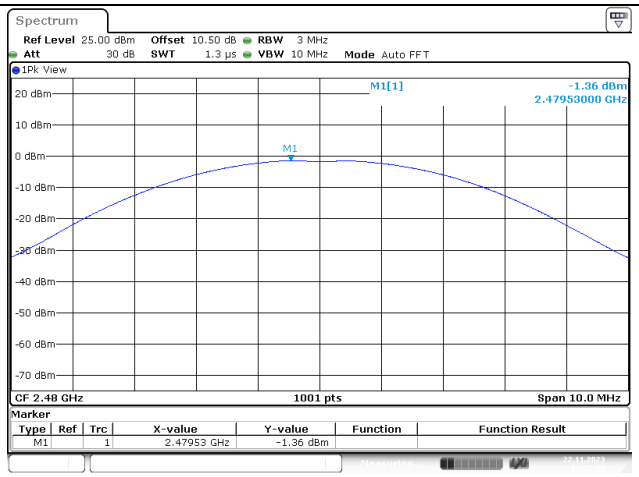
BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

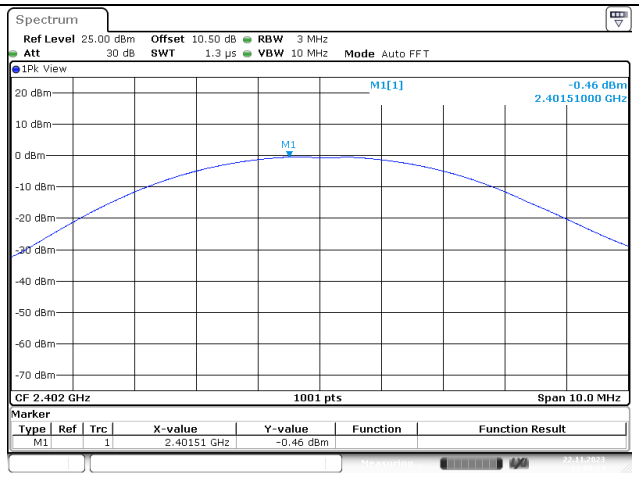
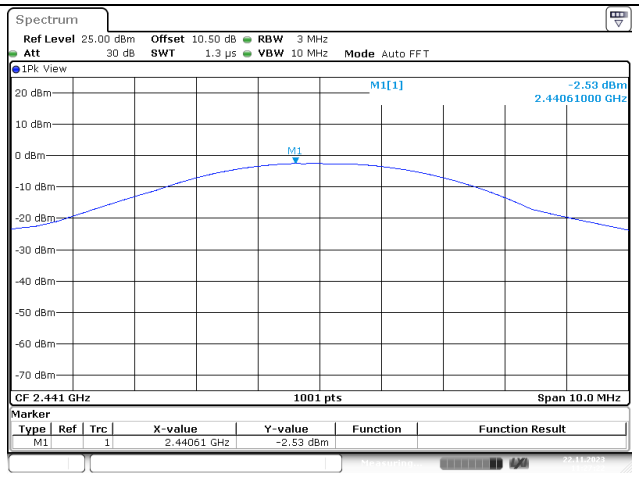
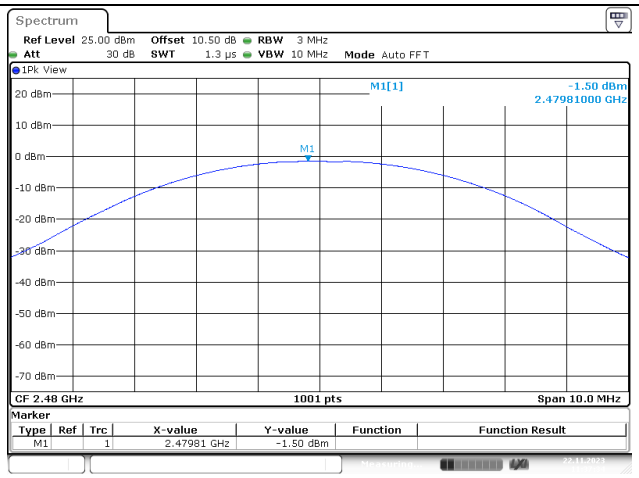
EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

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

Ant 1:

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	

4.8 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2CIM-1	Test Date:	2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.28

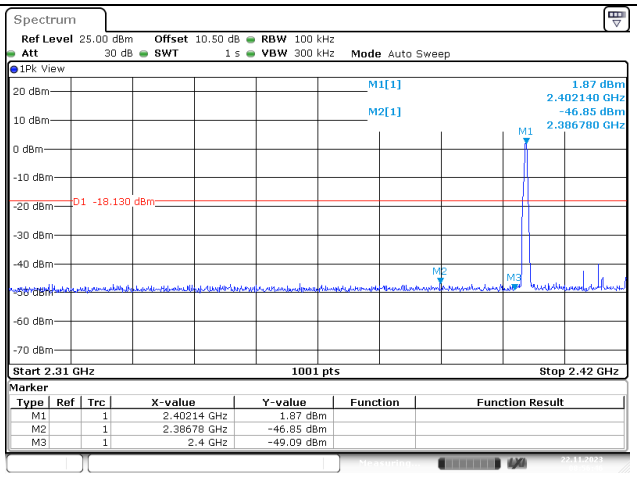
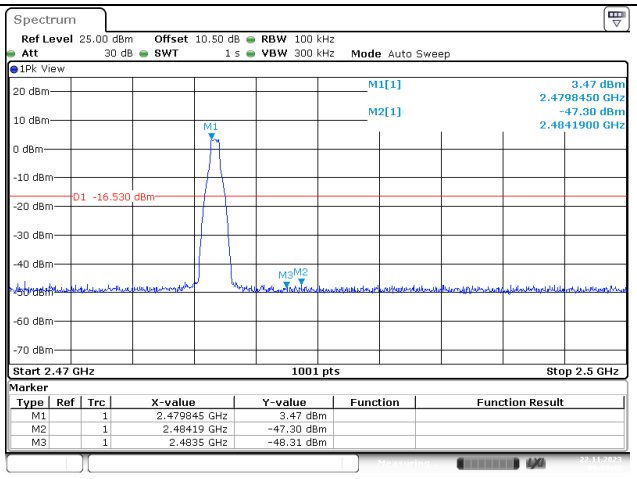
Test Equipment List and Details:

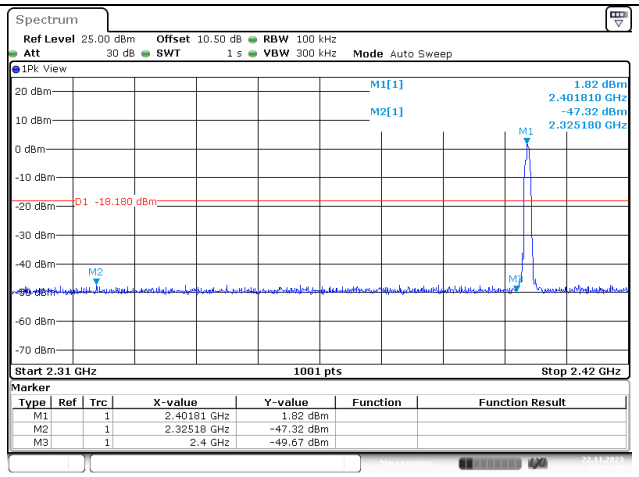
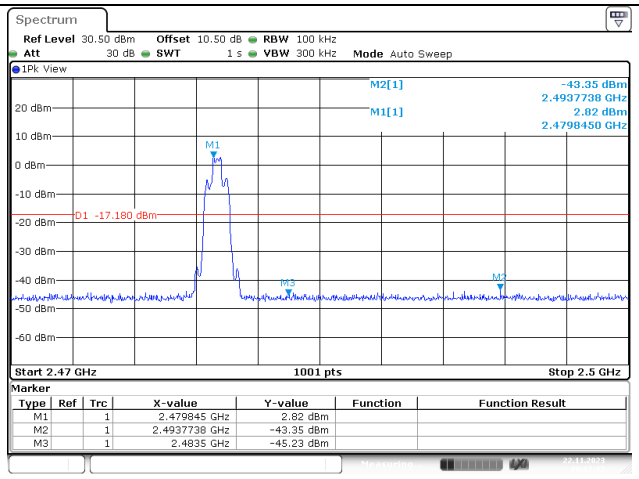
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2023/11/16	2024/11/15
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

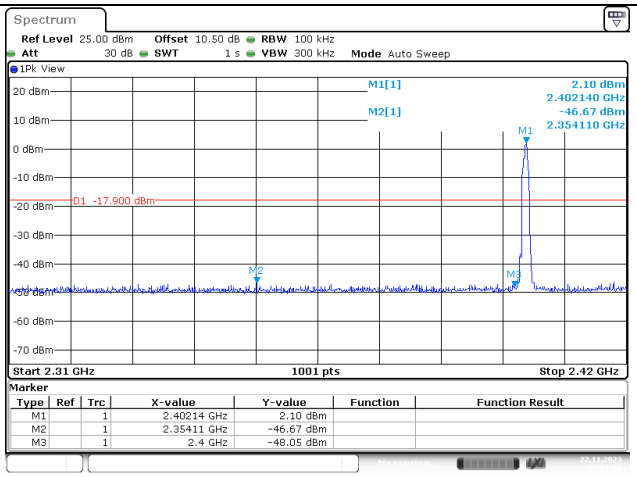
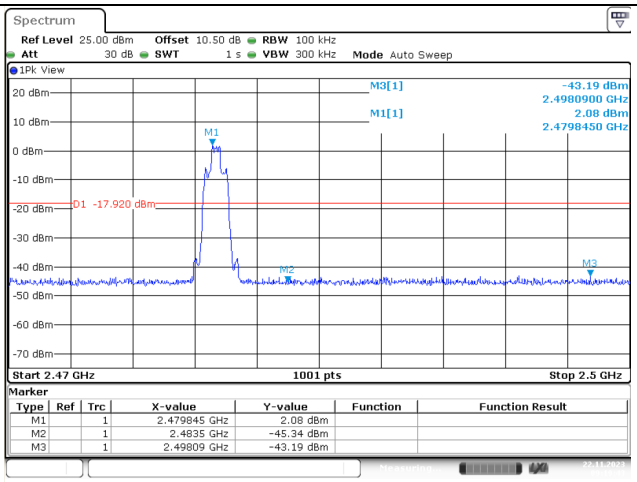
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

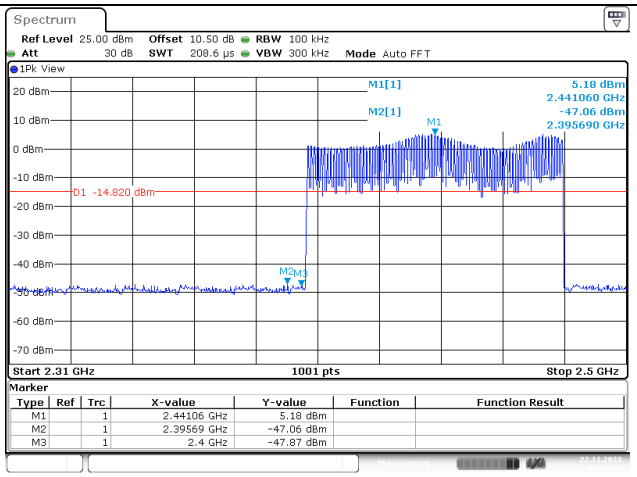
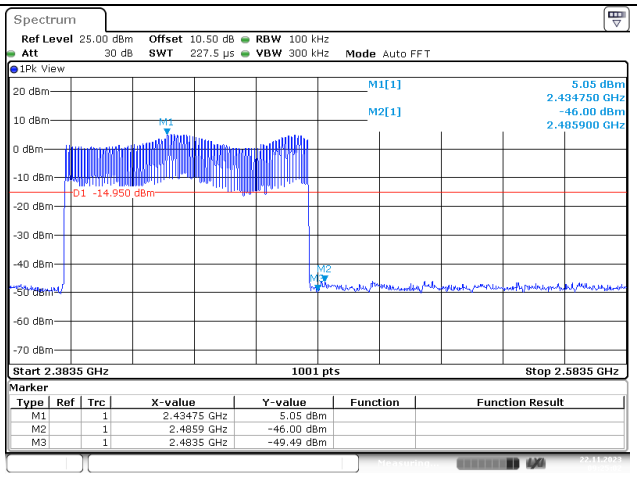
Test Data:

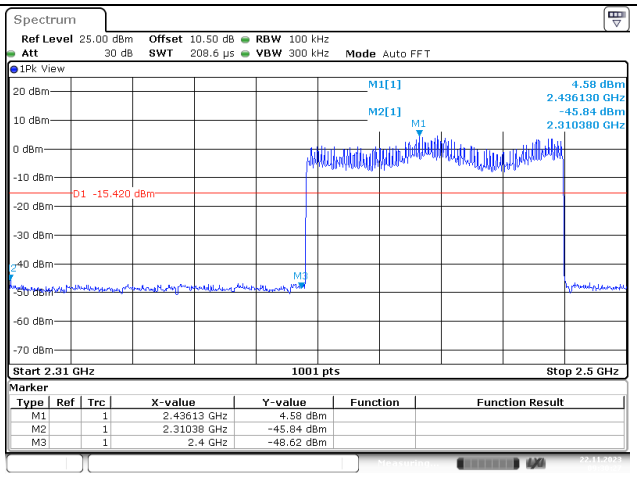
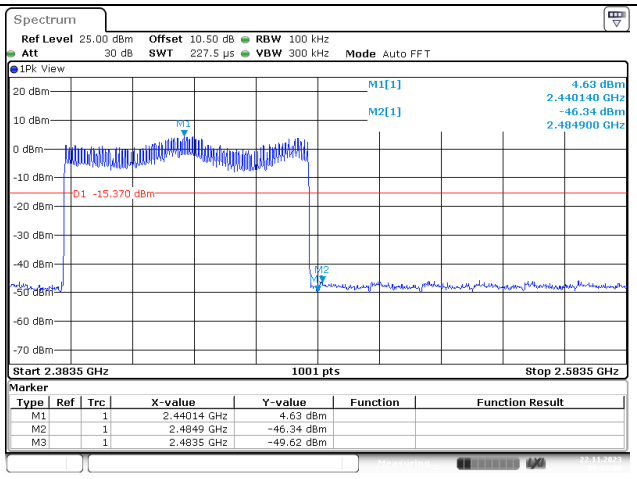
Ant 0:

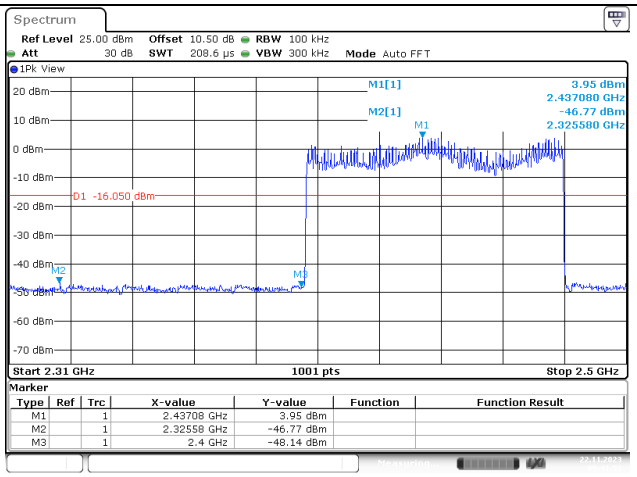
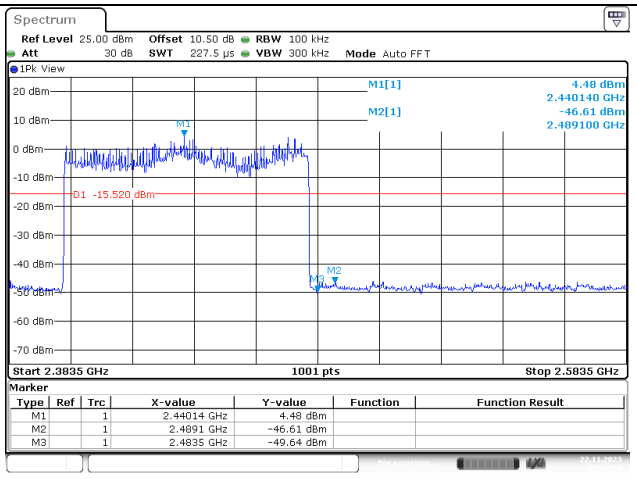
Band Edge, Single Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

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

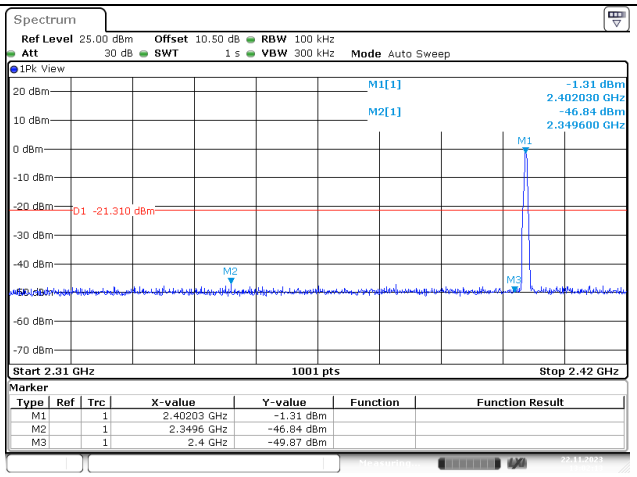
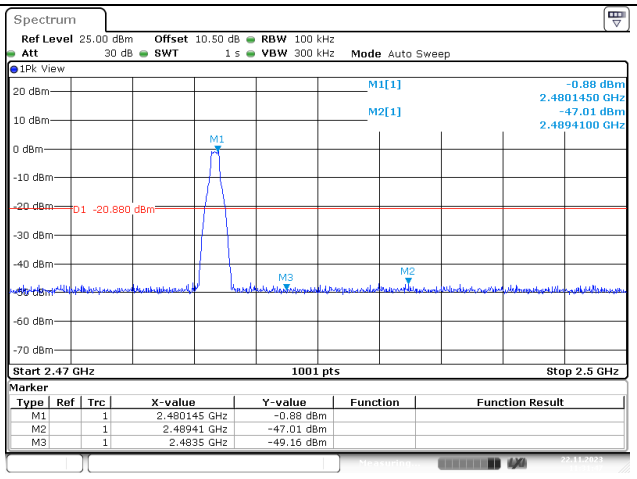
Band Edge, Single Channel	
EDR Mode (8DPSK), Left Side	
EDR Mode (8DPSK), Right Side	

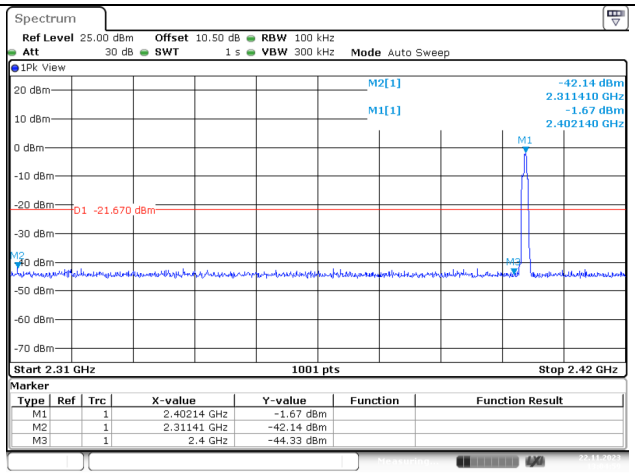
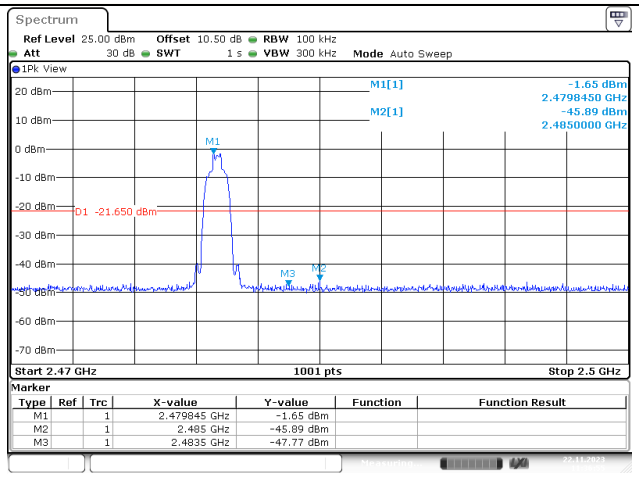
Band Edge, Hopping Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

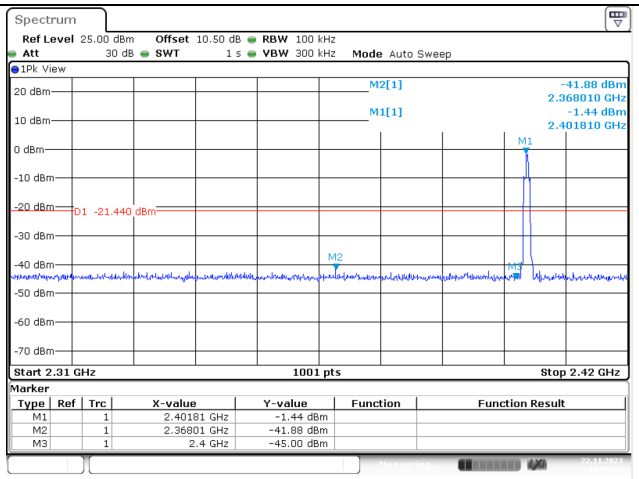
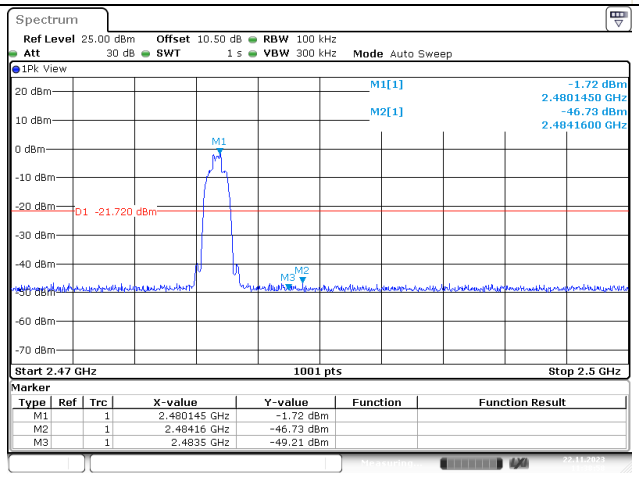
Band Edge, Hopping Channel	
EDR Mode (π/4-DQPSK), Left Side	
EDR Mode (π/4-DQPSK), Right Side	

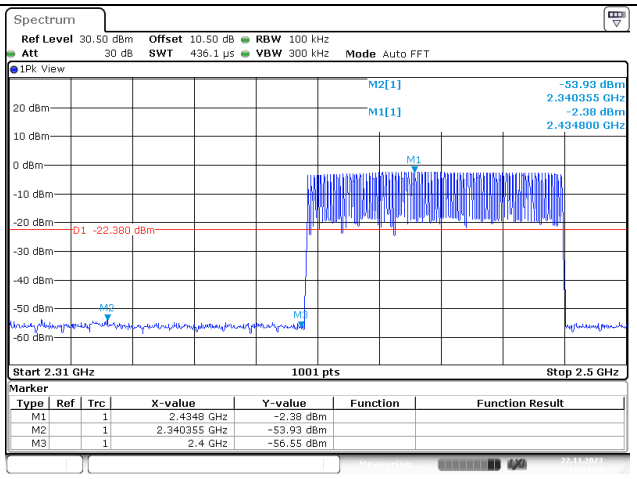
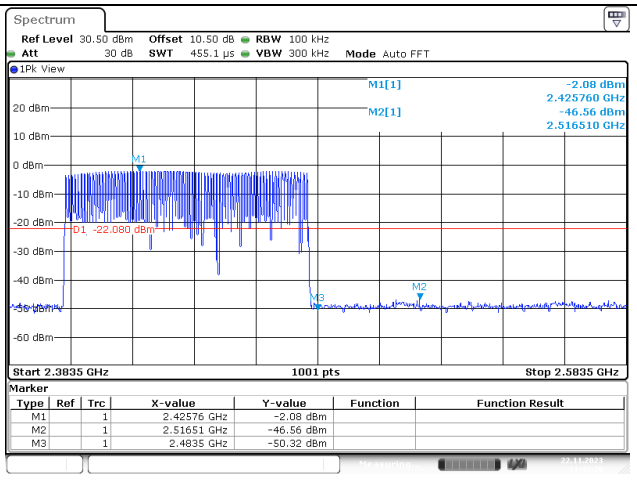
Band Edge, Hopping Channel	
EDR Mode (8DPSK), Left Side	
EDR Mode (8DPSK), Right Side	

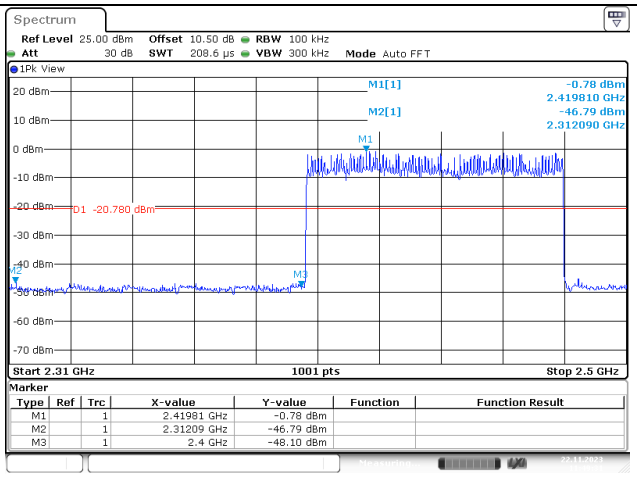
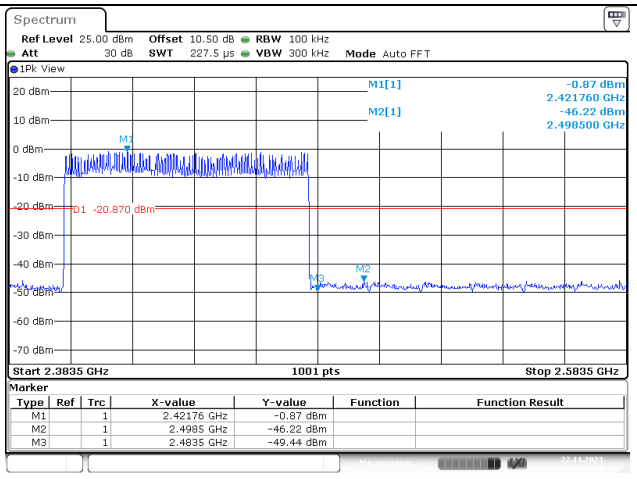
Ant 1:

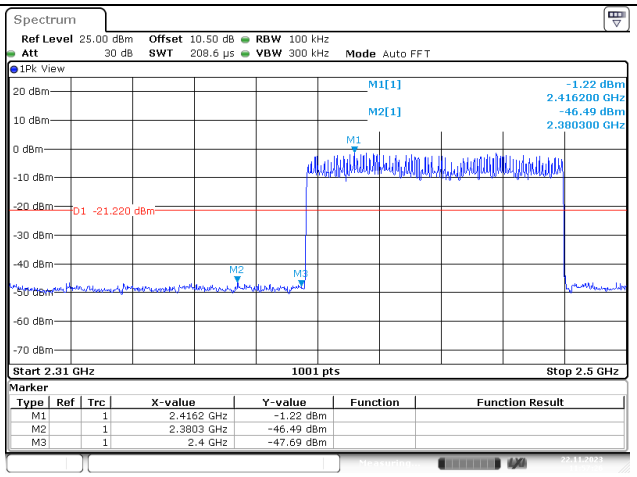
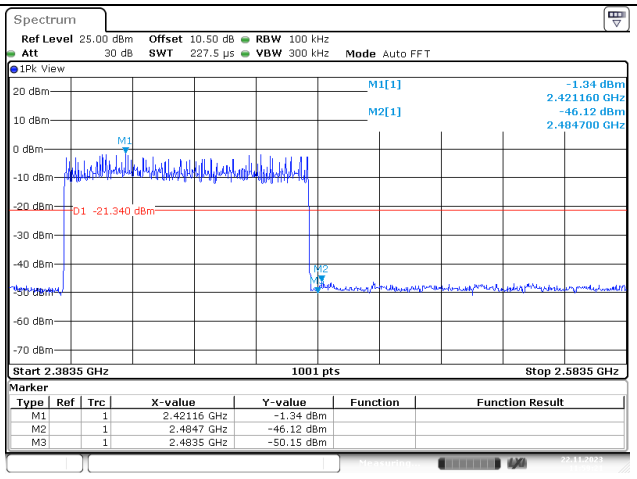
Band Edge, Single Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

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

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

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

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

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

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

The max conducted power including tune-up tolerance is 5.5dBm (3.55 mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=3.55/5*(√2.480) = 1.1< 3.0

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

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231061510-EXP EUT EXTERNAL PHOTOGRAPHS and CR231061510-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061510-00B-TSP TEST SETUP PHOTOGRAPHS.

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