

TEST REPORT

Applicant: MAXWEST COMMUNICATION LIMITED

Address: FLAT/RM 707 7/F, FORTRESS TOWER 250 KING'S ROAD,
NORTH POINT, HONG KONG

Product Name: Phone

FCC ID: 2ASP8ASTROA67

IC: 34168-ASTROA67

HVIN: ASTRO A67

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ANSI C63.10-2020

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The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502V07229E-RF-00B	Original Report	2025/8/26

1. GENERAL INFORMATION

1.1 General Description of Equipment under Test

EUT Name:	Phone
EUT Model:	ASTRO A67
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	3.67dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	3.85Vdc from battery or 5Vdc from adapter
Serial Number:	36BN-1 (for Emissions Test) 36BN-2 (for RF Conducted Test)
EUT Received Date:	2025/7/9
EUT Received Status:	Good

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	Shenzhen Jiekaixun Technology Co., Ltd.	A67W	Input: AC100-240V 50/60Hz 0.30A Output: DC 5V/2.0A 10W
USB Cable	MAXWEST	/	Unshielded without Ferrite Core, 1.0m
Earphone	MAXWEST	/	Unshielded without Ferrite Core, 1.2m

1.3 Antenna Information Detail[^]

Antenna Type	Input Impedance (Ohm)	Frequency Range (GHz)	Antenna Gain (dBi)
FPC	50	2.4-2.48	0.17
The design of compliance with §15.203:			
<div><div><input checked="" type="checkbox"/></div>Unit uses a permanently attached antenna.</div> <div><div><input type="checkbox"/></div>Unit uses a unique coupling to the intentional radiator.</div> <div><div><input type="checkbox"/></div>Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.</div>			

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
FCC §15.207(a) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1) RSS-247 Clause 5.1 b)	20 dB Emission Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1) RSS-247 Clause 5.1 b)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 5.1 d)	Number Of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 5.1 d)	Time Of Occupancy (Dwell Time)	Compliant
FCC §15.247(b)(1) RSS-247 Clause 5.4 b)	Maximum Conducted Output Power	Compliant
FCC §15.247(d) RSS-247 Clause 5.5	Conducted Spurious Emission	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
§15.247 (i) & §1.1310 & §2.1093	SAR Evaluation	Compliant
RSS-102 Clause 6.3	Exemption Limits for Routine Evaluation- SAR Evaluation	Compliant
Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~1GHz and 18~25GHz, the maximum output power mode and channel was tested.		

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

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

Note: The above frequencies in bold were performed the test.

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

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	Packet Type	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
BDR Mode (GFSK)	DH1	3	3	3
EDR Mode ($\pi/4$ -DQPSK)	2DH1	2	2	2
EDR Mode (8DPSK)	3DH1	2	2	2

3.3 Support Equipment List and Details

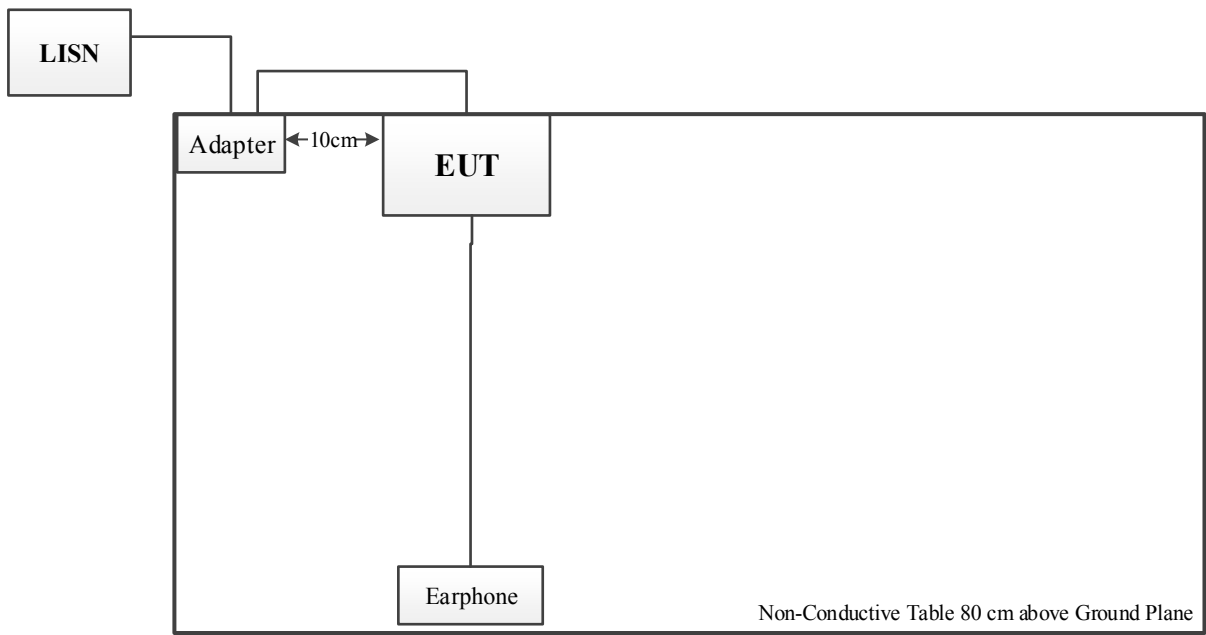
Manufacturer	Description	Model	Serial Number
Shenzhen Jiekaixun Technology Co., Ltd.	Adapter	A67W	Unknown
MAXWEST	Earphone	Unknown	Unknown

3.4 Support Cable List and Details

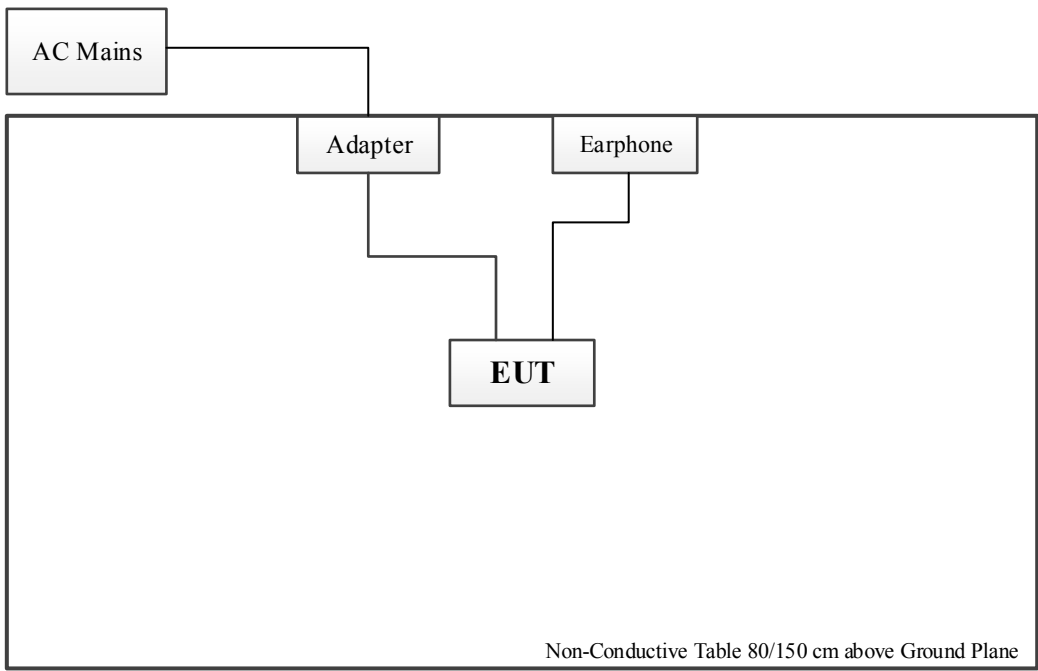
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT
Earphone Cable	No	No	1.2	EUT	Earphone

3.5 Block Diagram of Test Setup

AC Line Conducted Emissions:



Radiated Spurious Emissions:



3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 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 μ H/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.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/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, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

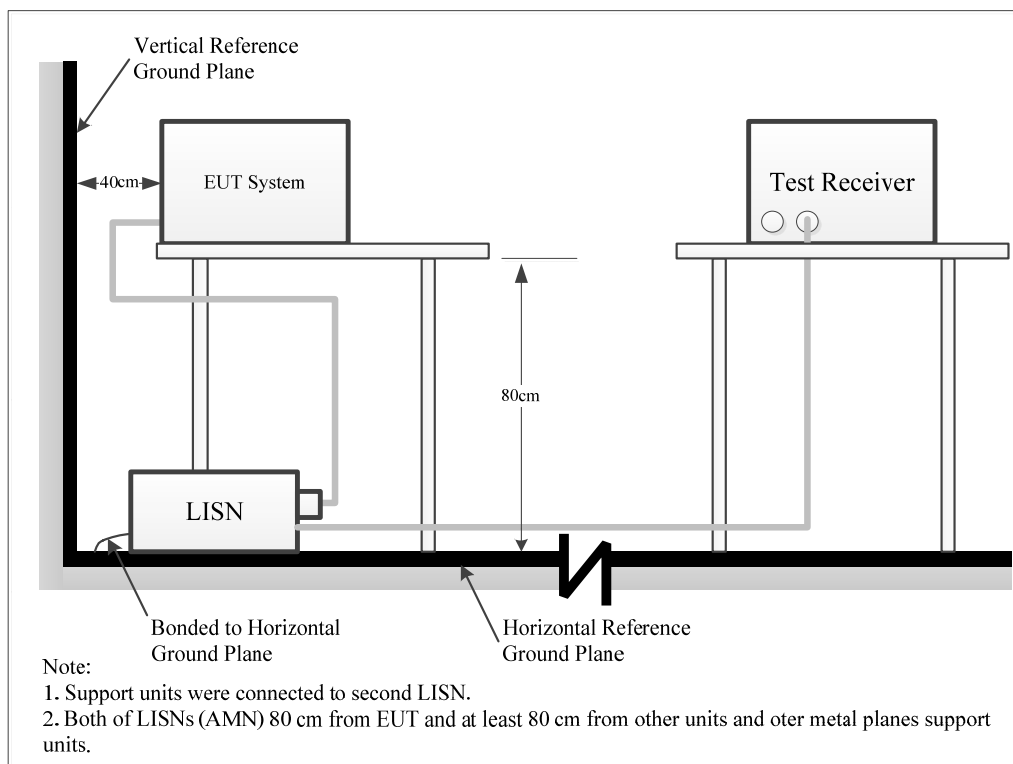
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

- Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.
- Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 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.

4.1.3 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

4.1.4 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.

4.1.5 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

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiated Spurious Emissions

4.2.1 Applicable Standard

FCC §15.247 (d);

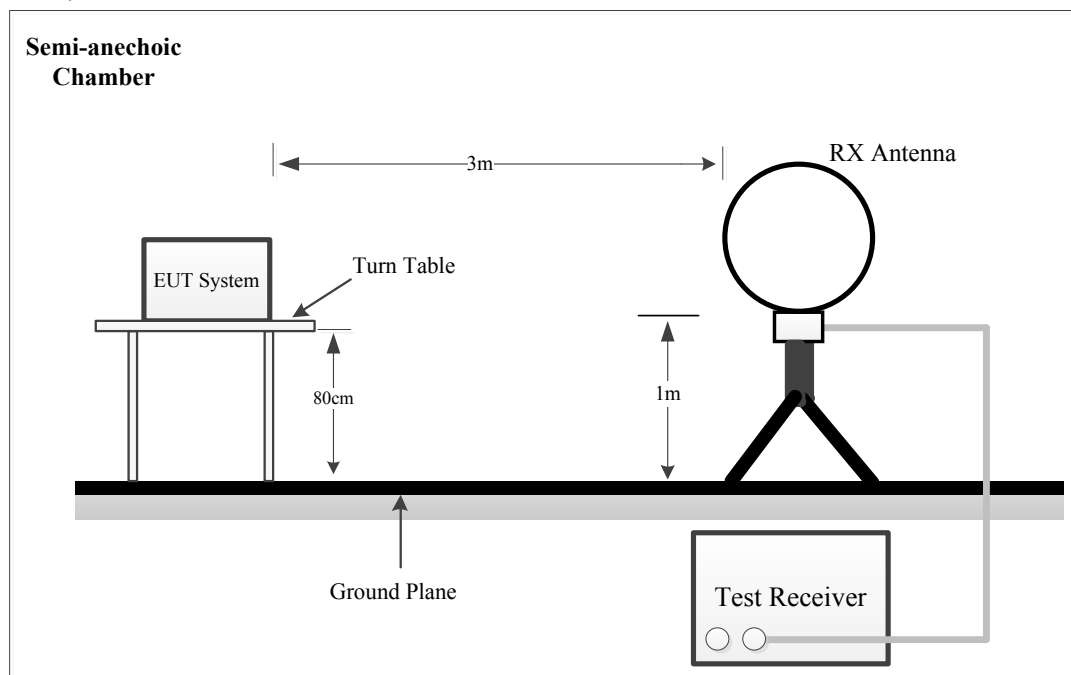
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

RSS-247 Clause 5.5

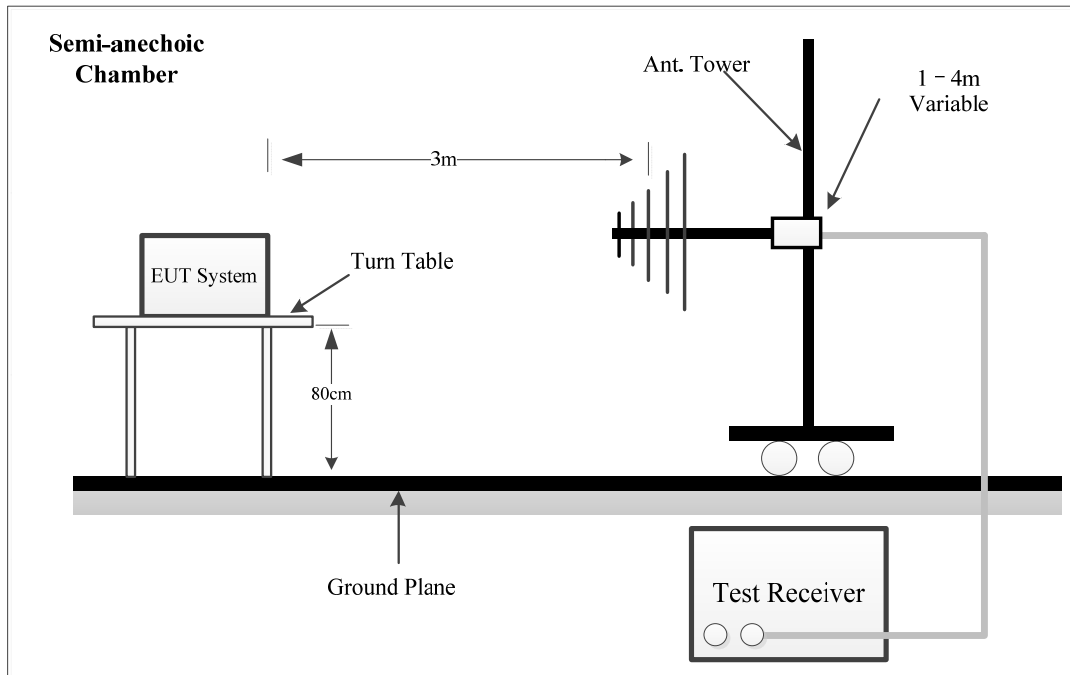
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required

4.2.2 EUT Setup

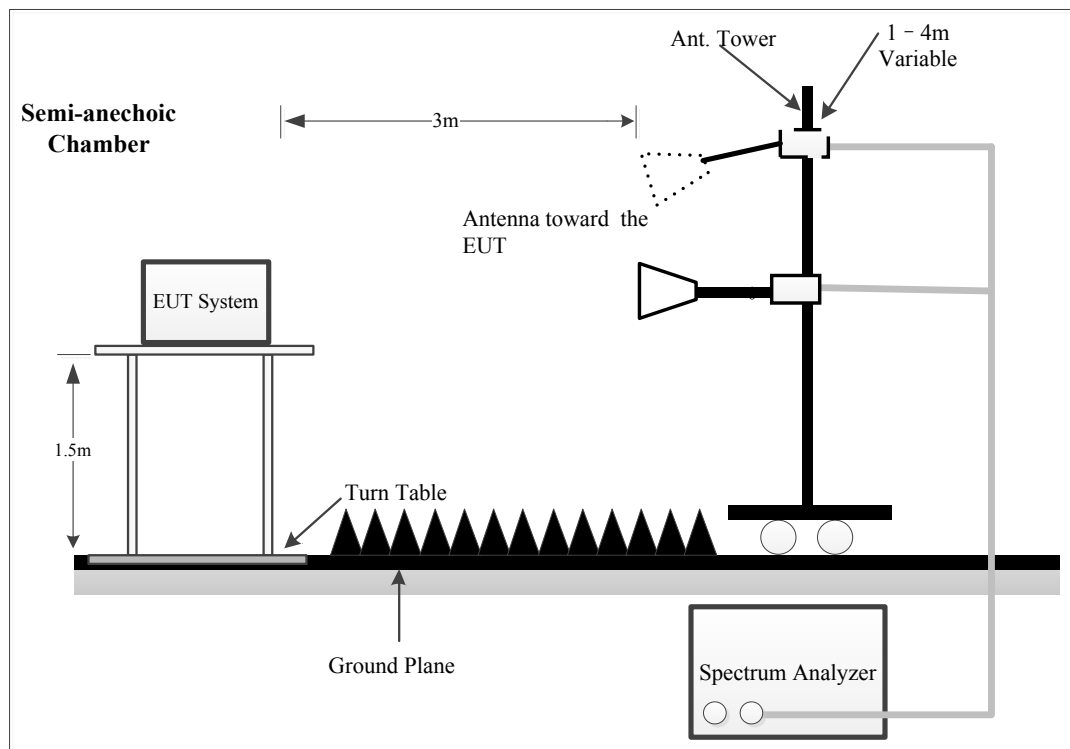
9kHz~30MHz:



30MHz~1GHz:



Above 1GHz:



The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits & RSS-247, RSS-Gen 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.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

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

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz-150 kHz	QP/AV	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz-30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30 MHz-1000 MHz	Peak	120 kHz	500 kHz	/	PK
	QP	/	/	120 kHz	QP

Above 1GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	10 Hz	PK

4.2.4 Test Procedure

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

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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.

4.2.5 Corrected Result & 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

For the spurious emission below 30MHz, the limit was converted from dBμA/m to dBμV/m by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

4.3 20 dB Emission Bandwidth

4.3.1 Applicable Standard

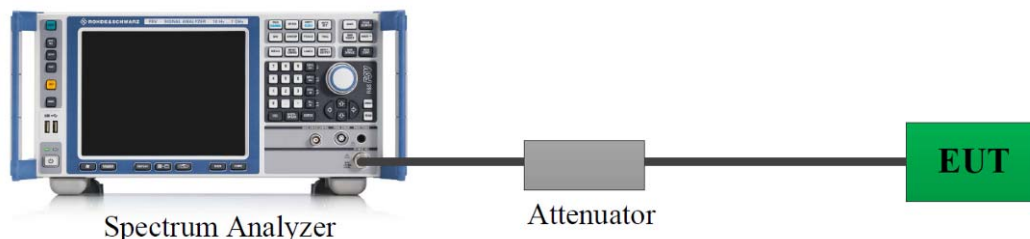
FCC §15.247 (a)(1)

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.

RSS-247 Clause 5.1 b)

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.

4.3.2 EUT Setup



4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- 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.
- 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.
- 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 $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2
- Steps a) through c) might require iteration to adjust within the specified tolerances.
- 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.
- Set detection mode to peak and trace mode to max hold.
- 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).

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).

4.3.4 Test Result

Please refer to section 5.3.

4.4 99% Occupied Bandwidth:

4.4.1 Applicable Standard

RSS-Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

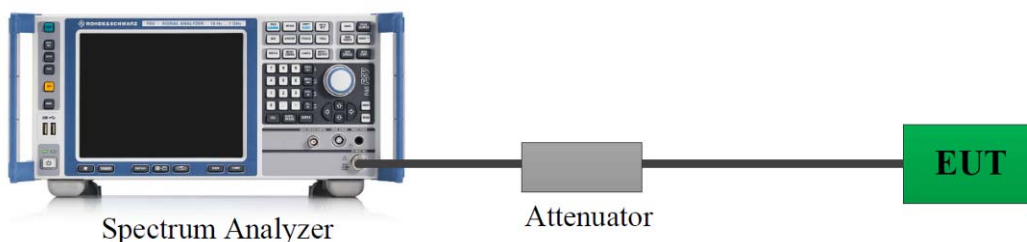
The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

4.4.2 EUT Setup



4.4.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 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 VBW shall be approximately three times the 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 $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) 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).

4.4.4 Test Result

Please refer to section 5.4.

4.5 Channel Separation

4.5.1 Applicable Standard

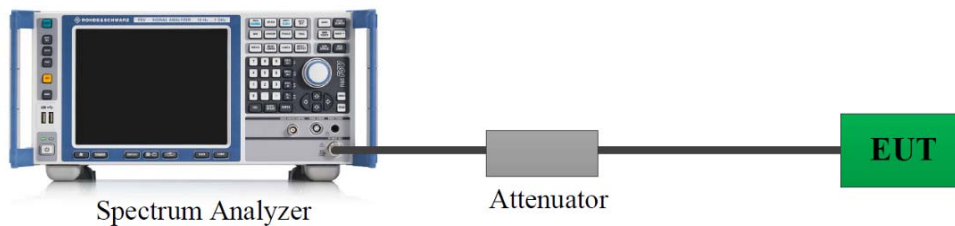
FCC §15.247 (a)(1)

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.

RSS-247 Clause 5.1 b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

4.5.2 EUT Setup



4.5.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.2

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

- Span: Wide enough to capture the peaks of two adjacent channels.
- RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- Video (or average) bandwidth (VBW) \geq RBW.
- Sweep: No faster than coupled (auto) time.
- Detector function: Peak.
- Trace: Max hold.
- Allow the trace to stabilize.

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

Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

4.5.4 Test Result

Please refer to section 5.5.

4.6 Number of Hopping Frequency

4.6.1 Applicable Standard

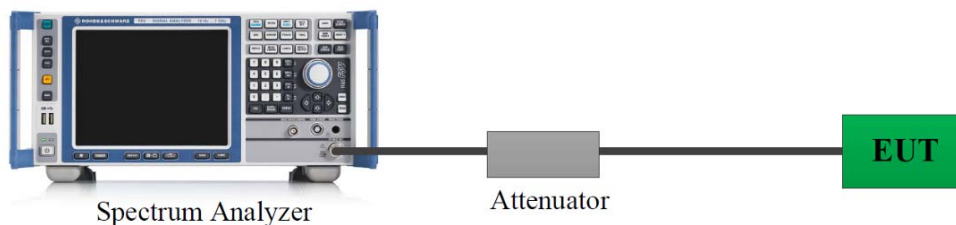
FCC §15.247 (a)(1)(iii)

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.

RSS-247 Clause 5.1 d)

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.

4.6.2 EUT Setup



4.6.3 Test Procedure

According to ANSI C63.10-2020 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 \geq RBW.
- d) Sweep: No faster than coupled (auto) time.
- 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 spectral plot of the data shall be included in the test report.

4.6.4 Test Result

Please refer to section 5.6.

4.7 Time of Occupancy (Dwell Time)

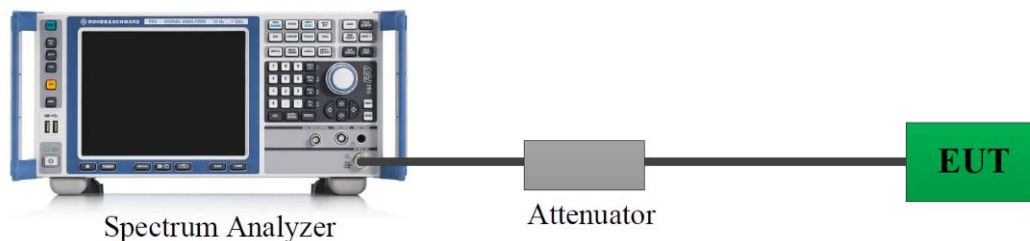
4.7.1 Applicable Standard

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.

RSS-247 Clause 5.1 d)

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.

4.7.2 EUT Setup



4.7.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.4

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

- Span: Zero span, centered on a hopping channel.
- RBW shall be \leq channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected transmission time per hop.
- Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- Detector function: Peak.
- Trace: Clear-write, single sweep.
- Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory

observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.

Spectral plots of the channel occupancy shall be included in the report.

4.7.4 Test Result

Please refer to section 5.7.

4.8 Maximum Conducted Output Power

4.8.1 Applicable Standard

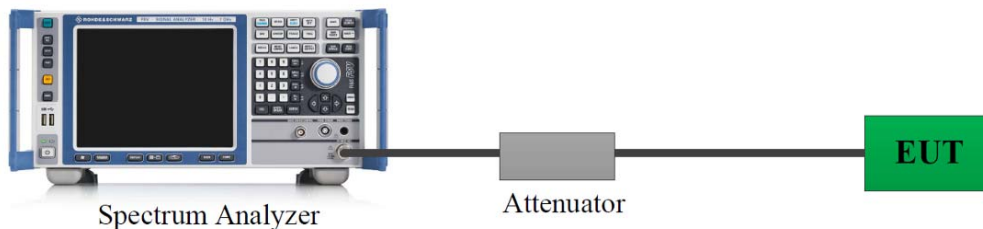
FCC §15.247 (b)(1)

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

According to RSS-247 Clause 5.4 b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

4.8.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.8.3 Test Procedure

According to ANSI C63.10-2020 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. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:

- a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW ≥ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- j) A spectral 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.

4.8.4 Test Result

Please refer to section 5.8.

4.9 Conducted Spurious Emission

4.9.1 Applicable Standard

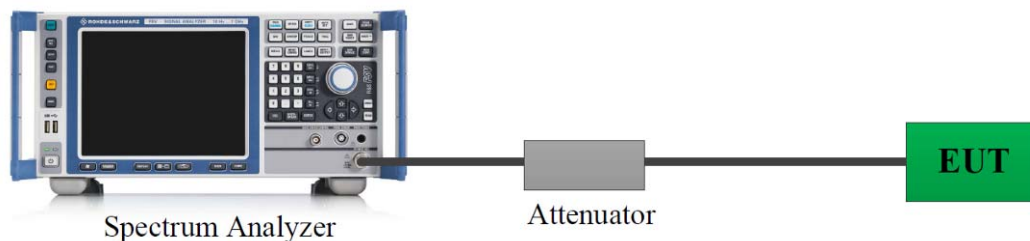
FCC §15.247 (d);

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)).

According to RSS-247 Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

4.9.2 EUT Setup



4.9.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.7.2

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = 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.

4.9.4 Test Result

Please refer to section 5.9.

4.10 Antenna Requirement

4.10.1 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.

RSS-Gen §6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

4.10.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. TEST DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	36BN-1	Test Date:	2025/7/21
Test Site:	CE	Test Mode:	Transmitting
Tester:	Yukin Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.	Relative Humidity: (%)	69	ATM Pressure: (kPa)	99.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2024/9/5	2025/9/4
Unknown	Coaxial Cable	RG 142	C-0200-05	2025/5/6	2026/5/5
R&S	EMI Test Receiver	ESCI	100224	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

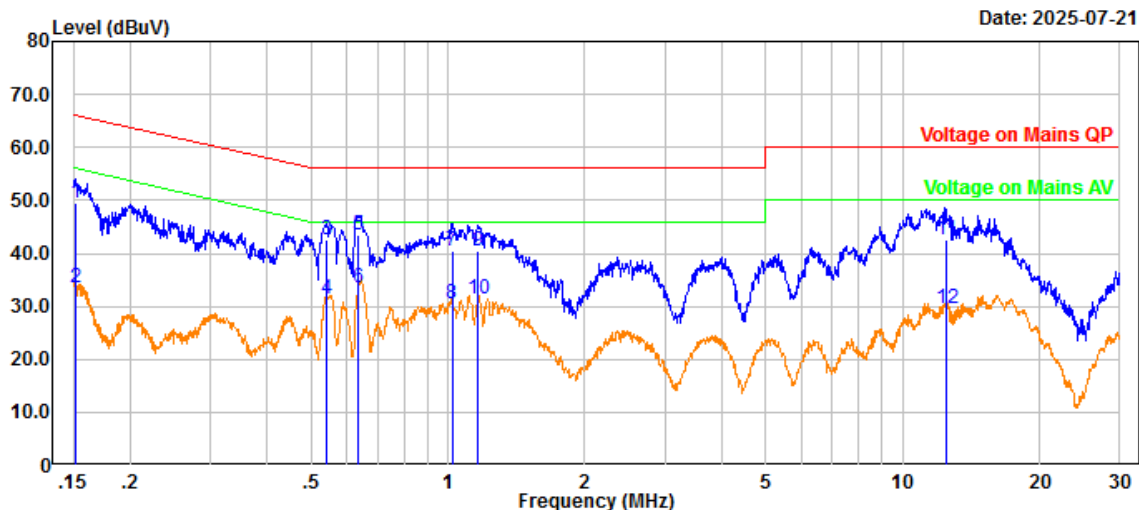
Test Data:

Please refer to the below table and plots.

Note: The Maximum Output Power Mode and Channel Selection Post Pre-test: BDR Mode (GFSK) 2457MHz was tested.

Project No.: 2502V07229E-RF
 Port: Line
 Test Mode: Transmitting
 IF B/W 9kHz PK/AV

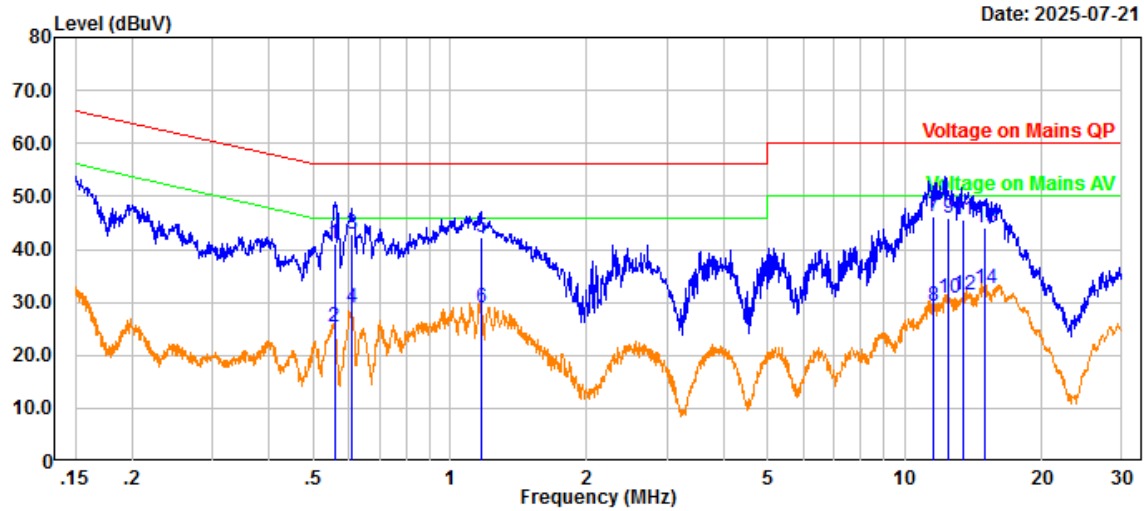
Serial No.: 36BN-1
 Tester: Yukin Qiu
 Note: BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
<hr/>							
1	0.152	38.41	11.18	49.59	65.89	16.30	QP
2	0.152	22.37	11.18	33.55	55.89	22.34	Average
3	0.539	32.01	10.57	42.58	56.00	13.42	QP
4	0.539	20.91	10.57	31.48	46.00	14.52	Average
5	0.635	33.11	10.47	43.58	56.00	12.42	QP
6	0.635	22.99	10.47	33.46	46.00	12.54	Average
7	1.021	29.64	10.82	40.46	56.00	15.54	QP
8	1.021	19.80	10.82	30.62	46.00	15.38	Average
9	1.163	29.52	10.89	40.41	56.00	15.59	QP
10	1.163	20.40	10.89	31.29	46.00	14.71	Average
11	12.462	31.73	10.82	42.55	60.00	17.45	QP
12	12.462	18.83	10.82	29.65	50.00	20.35	Average

Project No.: 2502V07229E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 36BN-1
Tester: Yukin Qiu
Note: BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Measurement
<hr/>							
1	0.557	30.56	10.48	41.04	56.00	14.96	QP
2	0.557	14.98	10.48	25.46	46.00	20.54	Average
3	0.607	32.50	10.46	42.96	56.00	13.04	QP
4	0.607	18.52	10.46	28.98	46.00	17.02	Average
5	1.169	31.24	10.96	42.20	56.00	13.80	QP
6	1.169	17.92	10.96	28.88	46.00	17.12	Average
7	11.570	35.17	10.90	46.07	60.00	13.93	QP
8	11.570	18.37	10.90	29.27	50.00	20.73	Average
9	12.441	34.99	10.92	45.91	60.00	14.09	QP
10	12.441	19.88	10.92	30.80	50.00	19.20	Average
11	13.416	34.61	10.95	45.56	60.00	14.44	QP
12	13.416	20.40	10.95	31.35	50.00	18.65	Average
13	15.026	33.09	11.00	44.09	60.00	15.91	QP
14	15.026	21.48	11.00	32.48	50.00	17.52	Average

5.2 Radiated Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	36BN-1	Test Date:	2025/7/25
Test Site:	Chamber A	Test Mode:	Transmitting
Tester:	Lancer Zhang, Jayce Wang	Test Result:	Pass

Environmental Conditions:			
Temperature: (°C)	25.8	Relative Humidity: (%)	42
		ATM Pressure: (kPa)	100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-2	2024/4/16	2027/4/15
Narda	Coaxial Attenuator	757C-6dB	34010	2024/4/16	2027/4/15
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2025/6/30	2026/7/1
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2025/6/30	2026/7/1
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2025/6/30	2026/7/1
Sonoma	Amplifier	310N	372193	2024/8/16	2025/8/15
R&S	EMI Test Receiver	ESR3	102453	2024/8/26	2025/8/25
Audix	Test Software	E3	191218 V9	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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 referred to table and plots.

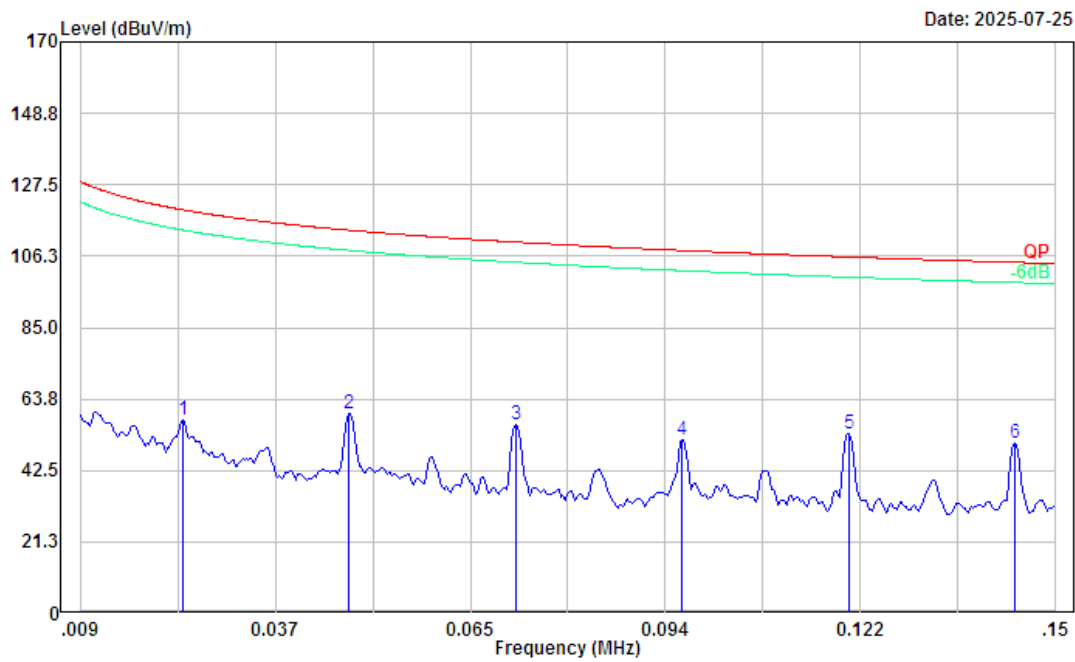
Note: The Maximum Output Power Mode and Channel Selection Post Pre-test: BDR Mode (GFSK) 2457MHz was tested.

9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) were measured, the worst orientations were below:

Project No.: 2502V07229E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:200Hz,VBW:1kHz

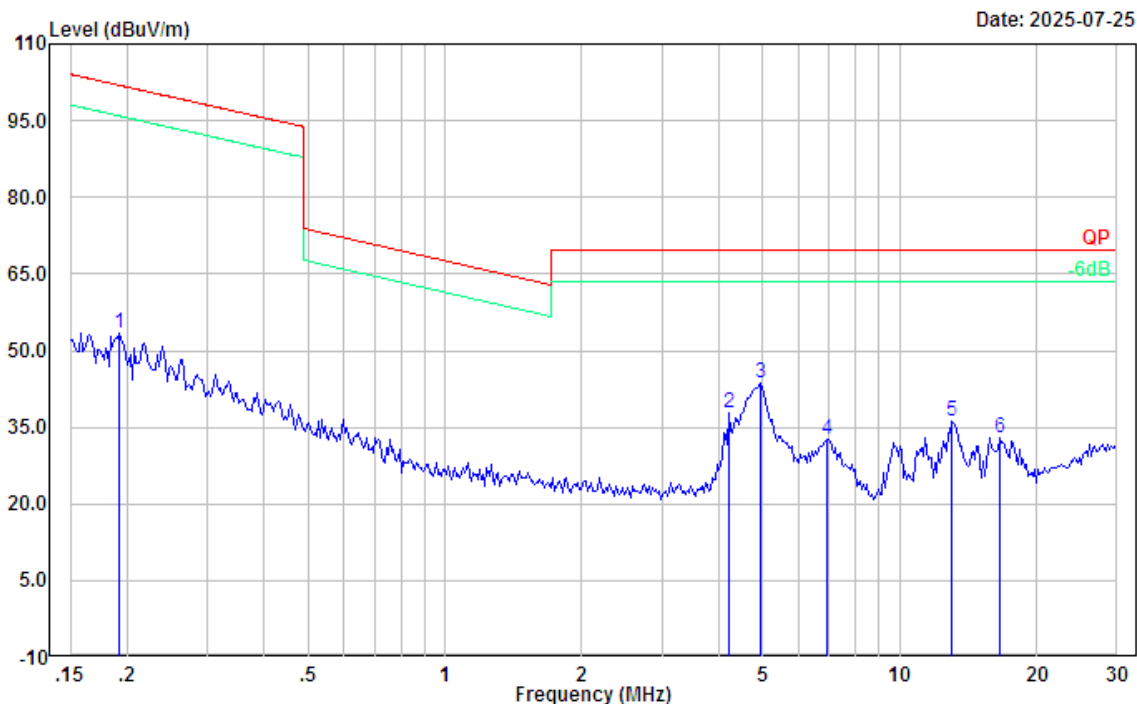
Serial No.: 36BN-1
Tester: Jayce Wang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.024	61.47	-3.94	57.53	120.07	62.54	Peak
2	0.048	70.02	-10.64	59.38	114.02	54.64	Peak
3	0.072	70.01	-13.95	56.06	110.46	54.40	Peak
4	0.096	67.90	-16.46	51.44	107.96	56.52	Peak
5	0.120	71.08	-17.63	53.45	106.01	52.56	Peak
6	0.144	69.27	-18.78	50.49	104.43	53.94	Peak

Project No.: 2502V07229E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: RBW:9kHz,VBW:30kHz

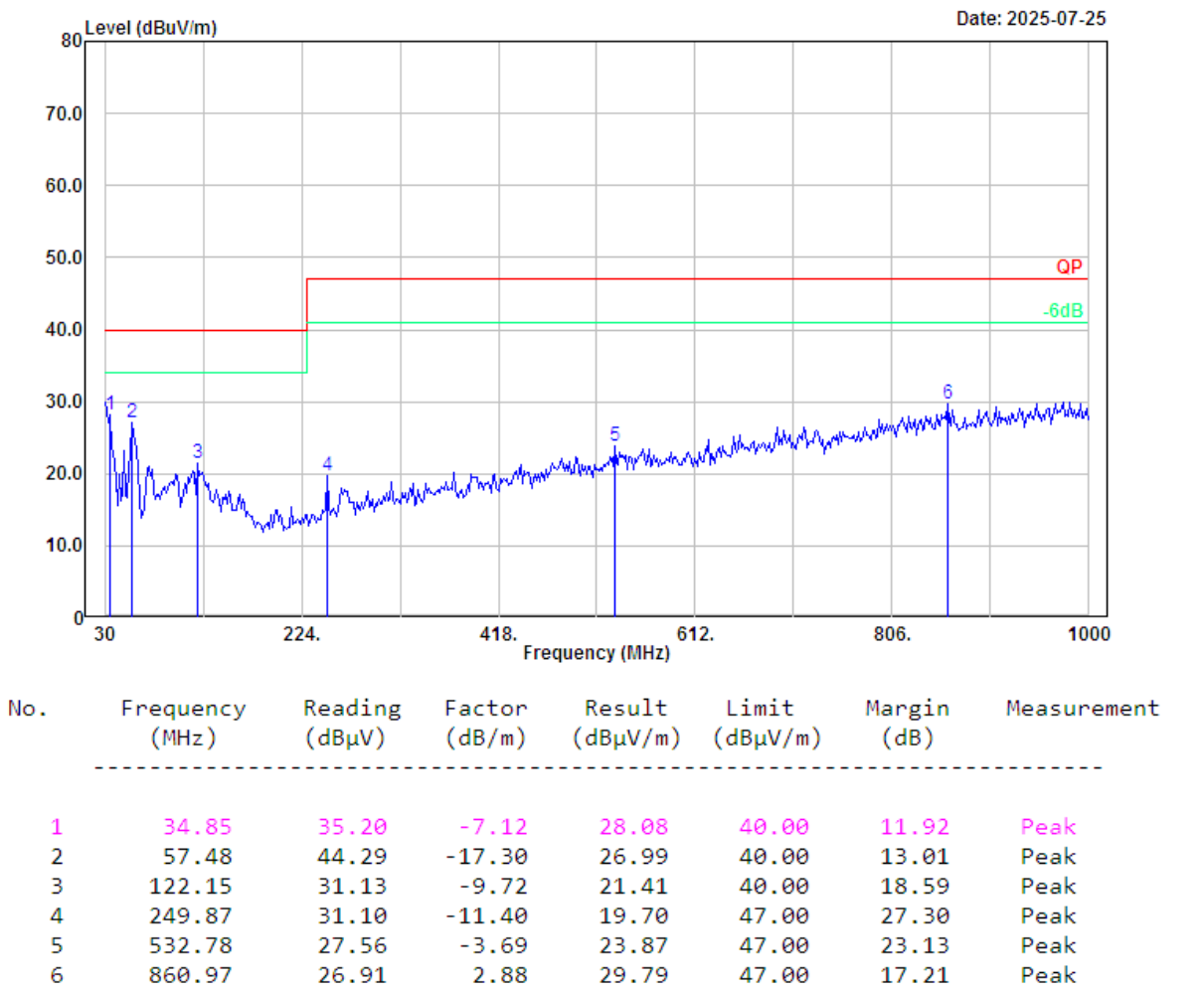
Serial No.: 36BN-1
Tester: Jayce Wang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.192	74.62	-21.08	53.54	101.93	48.39	Peak
2	4.224	78.13	-40.29	37.84	69.54	31.70	Peak
3	4.952	84.47	-40.68	43.79	69.54	25.75	Peak
4	6.926	72.63	-40.11	32.52	69.54	37.02	Peak
5	12.966	75.56	-39.46	36.10	69.54	33.44	Peak
6	16.602	72.08	-39.08	33.00	69.54	36.54	Peak

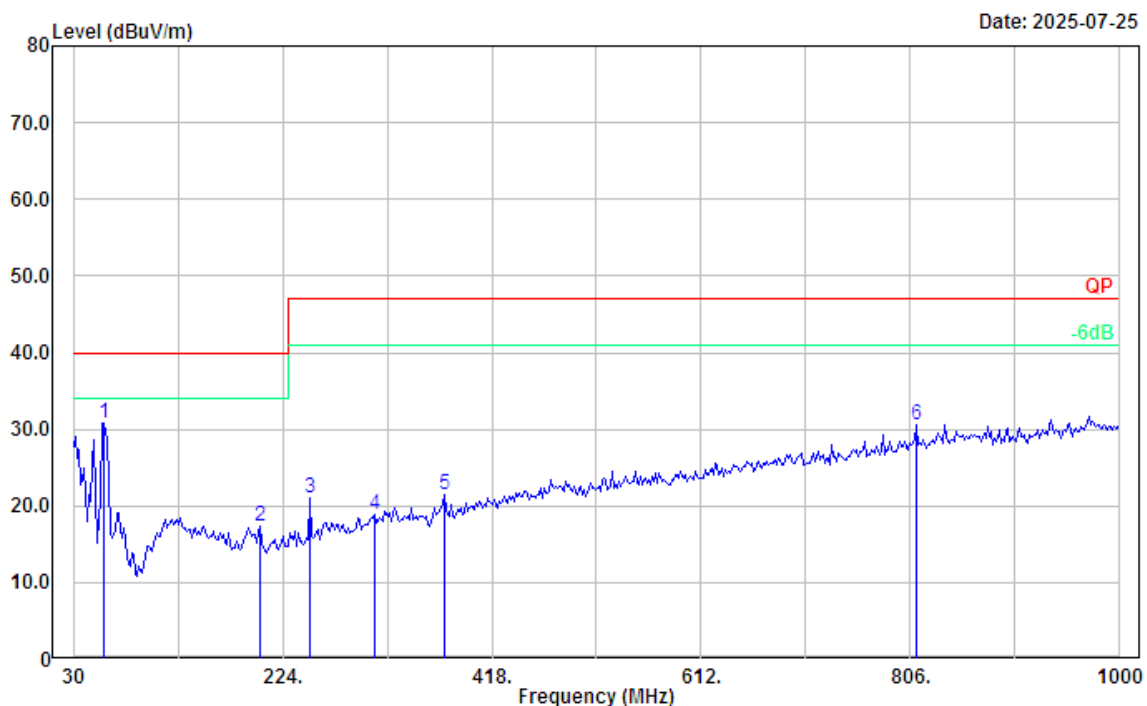
30MHz-1GHz

Project No.: 2502V07229E-RF Serial No.: 36BN-1
Polarization: Horizontal Tester: Lancer Zhang
Test Mode: Transmitting
Note: RBW:120kHz VBW:500kHz



Project No.: 2502V07229E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: RBW:120kHz VBW:500kHz

Serial No.: 36BN-1
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	59.10	48.08	-17.33	30.75	40.00	9.25	Peak
2	202.98	29.09	-11.82	17.27	40.00	22.73	Peak
3	249.87	32.37	-11.40	20.97	47.00	26.03	Peak
4	309.68	27.36	-8.54	18.82	47.00	28.18	Peak
5	374.35	28.72	-7.35	21.37	47.00	25.63	Peak
6	810.85	28.55	2.02	30.57	47.00	16.43	Peak

2) 1GHz-25GHz:

Serial Number:	36BN-1	Test Date:	2025/8/6~2025/8/26
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Alan Xie	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.1~27.5	Relative Humidity: (%)	39~49	ATM Pressure: (kPa)	99.8~100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2024/12/9	2025/12/8
AH	Preamplifier	PAM-0118P	469	2025/4/11	2026/4/10
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

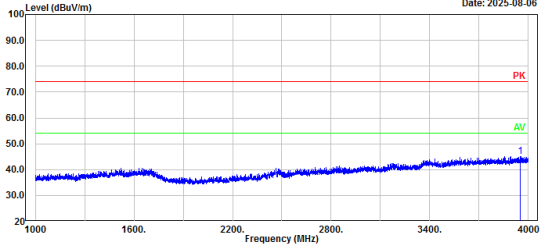
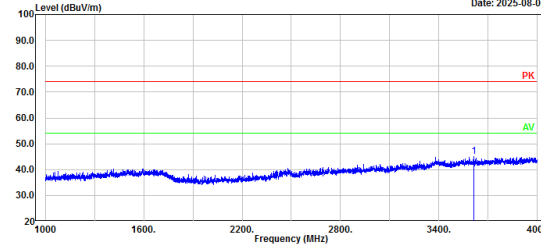
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

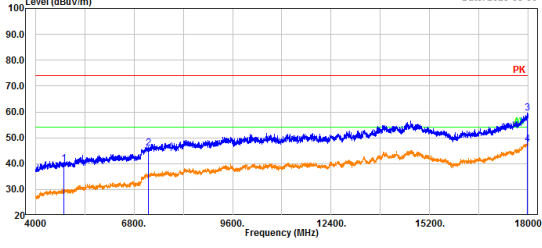
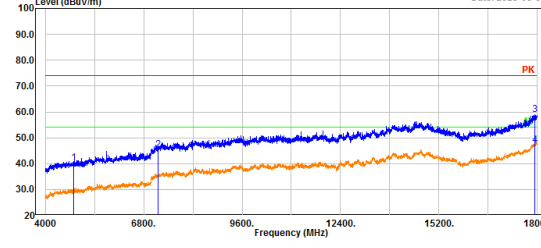
Test Data:

Please refer to the below table and plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is referred to table and plots.

1GHz-18GHz:

Note: The Maximum Output Power Mode and Channel: BDR Mode (GFSK) was tested.

BDR Mode low channel Horizontal				BDR Mode low channel Vertical			
<div>Project No.: 2502V07229E-RF Polarization: Horizontal Test Mode: Transmitting Note: BDR Mode low channel 2402MHz Peak:RBW:1MHz,VBW:30Hz</div> <div>Serial No.: 36BN-1 Tester: Alan Xie</div> <div>Date: 2025-08-06</div> 				<div>Project No.: 2502V07229E-RF Polarization: Vertical Test Mode: Transmitting Note: BDR Mode low channel 2402MHz Peak:RBW:1MHz,VBW:30Hz</div> <div>Serial No.: 36BN-1 Tester: Alan Xie</div> <div>Date: 2025-08-06</div> 			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3950.20	48.61	-3.41	45.20	74.00	28.80	Peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3611.20	49.06	-4.15	44.91	74.00	29.09	Peak

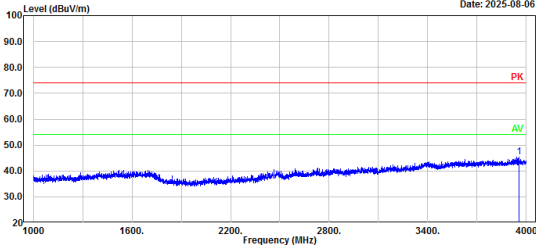
<div>Project No.: 2502V07229E-RF Polarization: Horizontal Test Mode: Transmitting Note: BDR Mode low channel 2402MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz</div> <div>Serial No.: 36BN-1 Tester: Alan Xie</div> <div>Date: 2025-08-06</div> 				<div>Project No.: 2502V07229E-RF Polarization: Vertical Test Mode: Transmitting Note: BDR Mode low channel 2402MHz Peak:RBW:1MHz,VBW:30Hz Ave:RBW:1MHz,VBW:5kHz</div> <div>Serial No.: 36BN-1 Tester: Alan Xie</div> <div>Date: 2025-08-06</div> 			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4804.00	47.60	-7.53	40.07	74.00	33.93	Peak
2	7206.00	49.30	-3.42	45.88	74.00	28.12	Peak
3	17974.00	48.57	11.03	59.60	74.00	14.40	Peak
4	17974.00	36.47	11.03	47.50	54.00	6.50	Average
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4804.00	47.62	-7.53	40.09	74.00	33.91	Peak
2	7206.00	48.92	-3.42	45.50	74.00	28.50	Peak
3	17930.00	48.10	10.74	58.84	74.00	15.16	Peak
4	17930.00	36.38	10.74	47.12	54.00	6.88	Average

BDR Mode middle channel Horizontal

Project No.: 2502V07229E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: BDR Mode middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 36BN-1
Tester: Alan Xie

Date: 2025-08-06



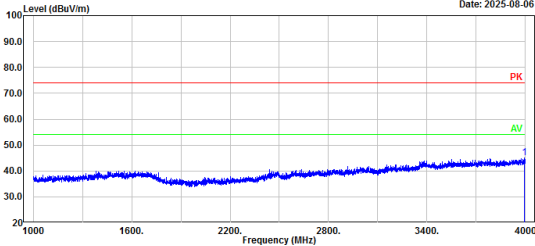
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3955.00	48.89	-3.43	45.46	74.00	28.54	Peak

BDR Mode middle channel Vertical

Project No.: 2502V07229E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: BDR Mode middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz

Serial No.: 36BN-1
Tester: Alan Xie

Date: 2025-08-06

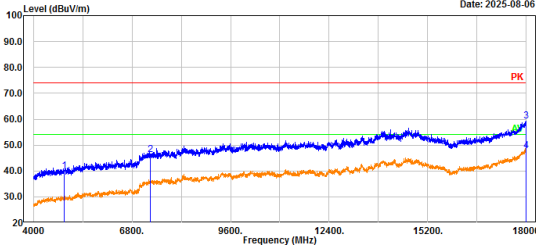


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3994.60	48.40	-3.44	44.96	74.00	29.04	Peak

Project No.: 2502V07229E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: BDR Mode middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 36BN-1
Tester: Alan Xie

Date: 2025-08-06

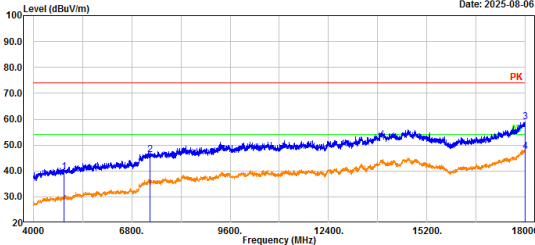


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4882.00	47.36	-7.54	39.82	74.00	34.18	Peak
2	7323.00	49.20	-2.88	46.32	74.00	27.68	Peak
3	17988.80	48.18	11.11	59.29	74.00	14.71	Peak
4	17988.80	36.57	11.11	47.68	54.00	6.32	Average

Project No.: 2502V07229E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: BDR Mode middle channel 2441MHz
Peak: RBW:1MHz, VBW:3MHz Ave: RBW:1MHz, VBW:5kHz

Serial No.: 36BN-1
Tester: Alan Xie

Date: 2025-08-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4882.00	47.30	-7.54	39.76	74.00	34.24	Peak
2	7323.00	49.08	-2.88	46.20	74.00	27.80	Peak
3	17994.40	47.85	11.14	58.99	74.00	15.01	Peak
4	17994.40	36.29	11.14	47.43	54.00	6.57	Average

Project No.: 2502V07229E-RF

Polarization: Horizontal

Test Mode: Transmitting

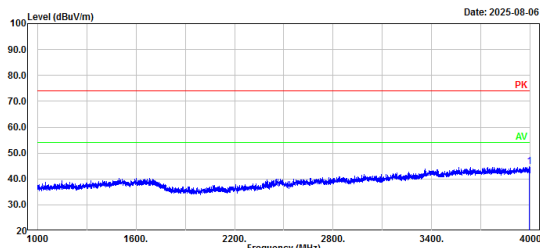
Note: BDR Mode high channel 2480MHz

Peak:RBW:1MHz,VBW:3MHz

Serial No.: 36BN-1

Tester: Alan Xie

Date: 2025-08-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3992.80	48.21	-3.45	44.76	74.00	29.24	Peak

Project No.: 2502V07229E-RF

Polarization: Vertical

Test Mode: Transmitting

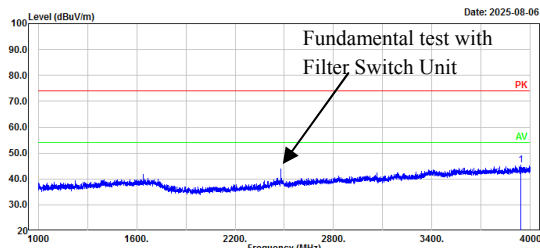
Note: BDR Mode high channel 2480MHz

Peak:RBW:1MHz,VBW:3MHz

Serial No.: 36BN-1

Tester: Alan Xie

Date: 2025-08-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	3938.80	48.95	-3.52	45.43	74.00	28.57	Peak

Project No.: 2502V07229E-RF

Polarization: Horizontal

Test Mode: Transmitting

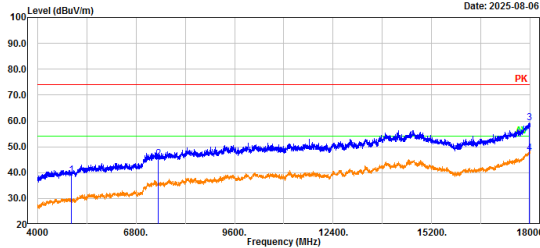
Note: BDR Mode high channel 2480MHz

Peak:RBW:1MHz,VBW:3MHz Ave: RBW:1MHz,VBW:5kHz

Serial No.: 36BN-1

Tester: Alan Xie

Date: 2025-08-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4960.00	46.53	-7.40	39.13	74.00	34.87	Peak
2	7440.00	47.72	-2.39	45.33	74.00	28.67	Peak
3	17972.00	48.18	11.02	59.20	74.00	14.80	Peak
4	17972.00	36.39	11.02	47.41	54.00	6.59	Average

Project No.: 2502V07229E-RF

Polarization: Vertical

Test Mode: Transmitting

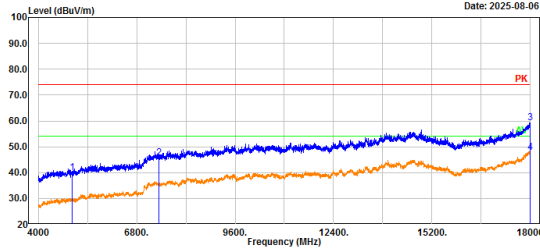
Note: BDR Mode high channel 2480MHz

Peak:RBW:1MHz,VBW:3MHz Ave: RBW:1MHz,VBW:5kHz

Serial No.: 36BN-1

Tester: Alan Xie

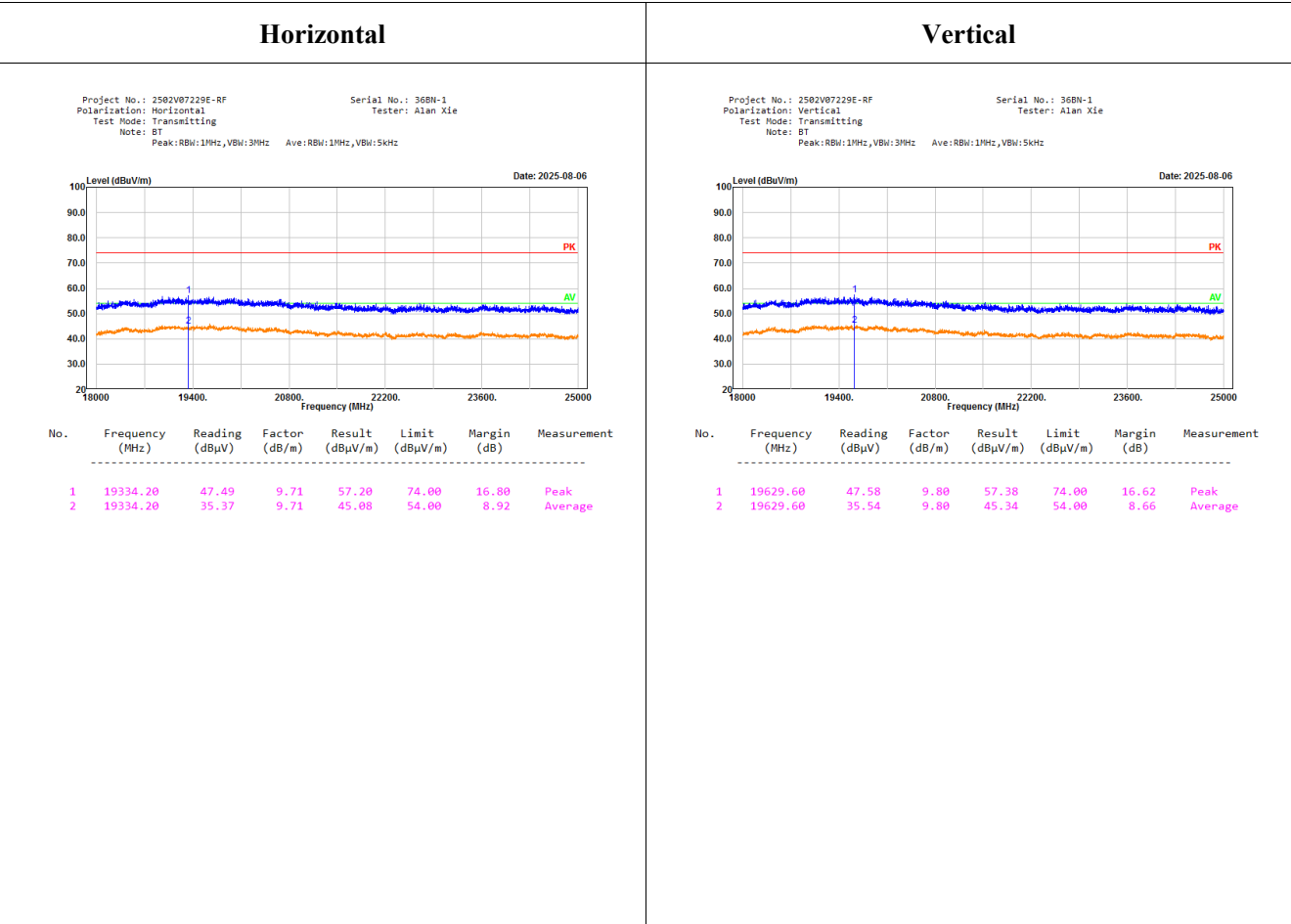
Date: 2025-08-06



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement
1	4960.00	47.45	-7.40	40.05	74.00	33.95	Peak
2	7440.00	48.15	-2.39	45.76	74.00	28.24	Peak
3	17991.60	48.20	11.13	59.33	74.00	14.67	Peak
4	17991.60	36.53	11.13	47.66	54.00	6.34	Average

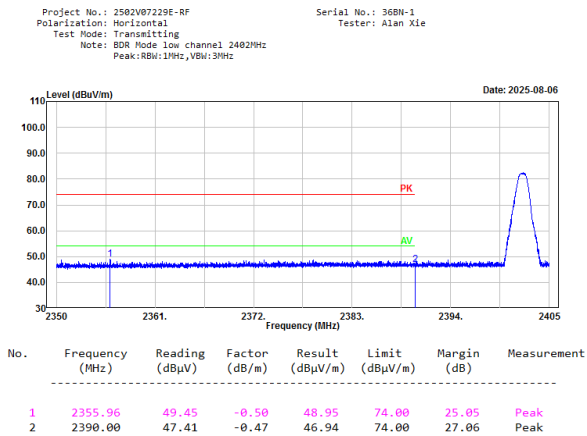
18GHz-25GHz:

Note: No Emission was detected in the range 18GHz-25GHz, the Maximum Output Power Mode and Channel: BDR Mode (GFSK) 2457MHz was tested.

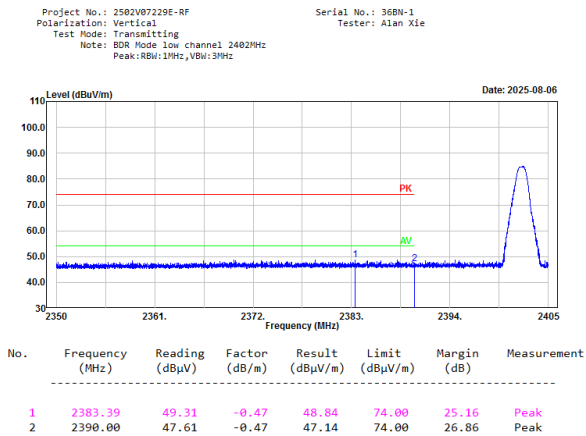


Bandedge:

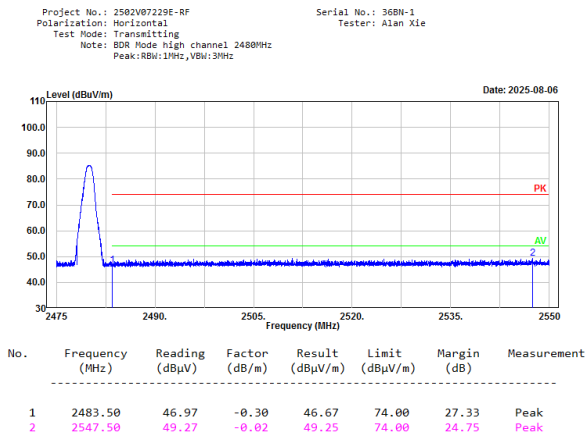
BDR Mode low channel Bandedge Horizontal



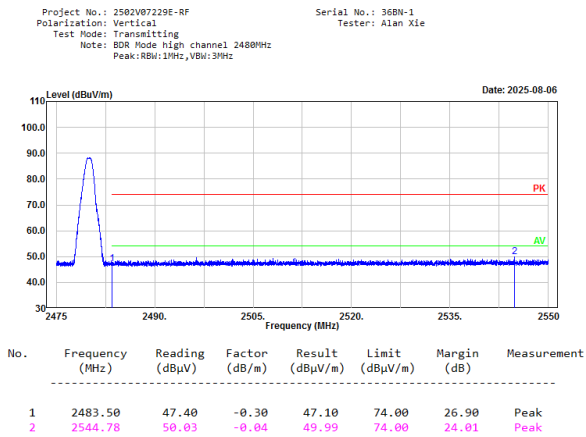
BDR Mode low channel Bandedge Vertical



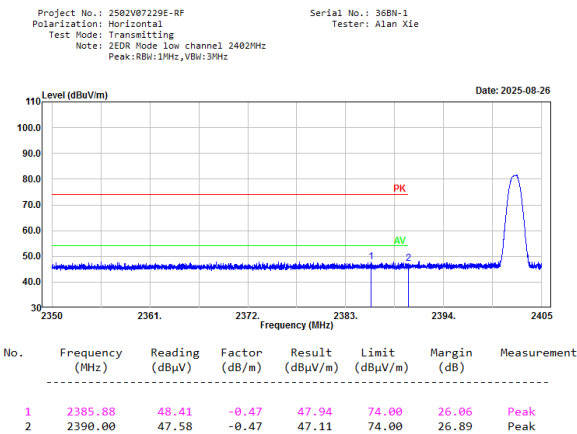
BDR Mode high channel Bandedge Horizontal



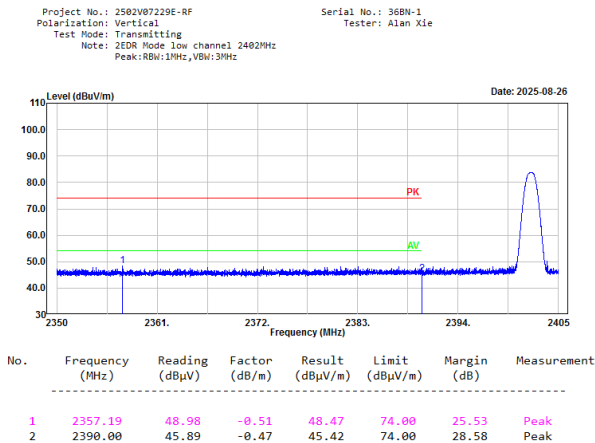
BDR Mode high channel Bandedge Vertical



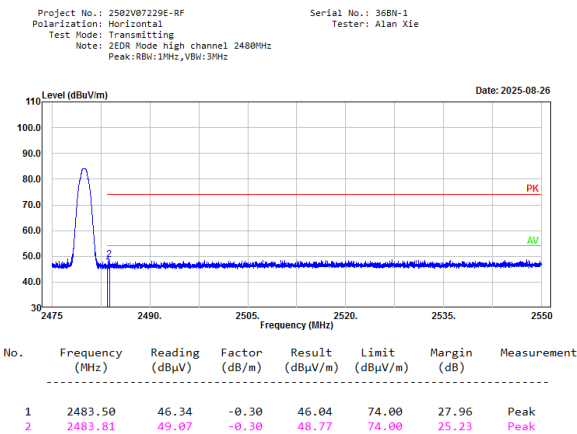
2EDR Mode low channel Bandedge Horizontal



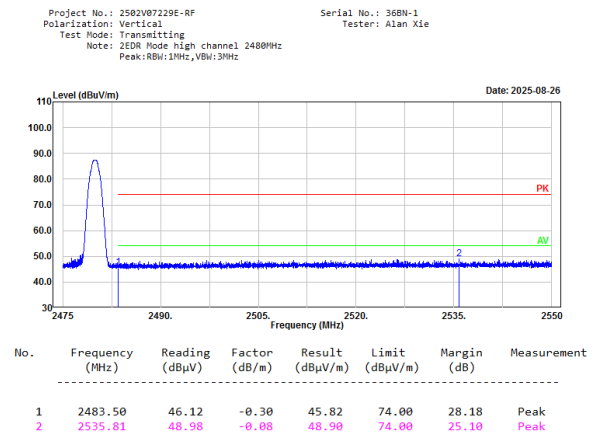
2EDR Mode low channel Bandedge Vertical



2EDR Mode high channel Bandedge Horizontal



2EDR Mode high channel Bandedge Vertical



5.3 20 dB Emission Bandwidth

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	70	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

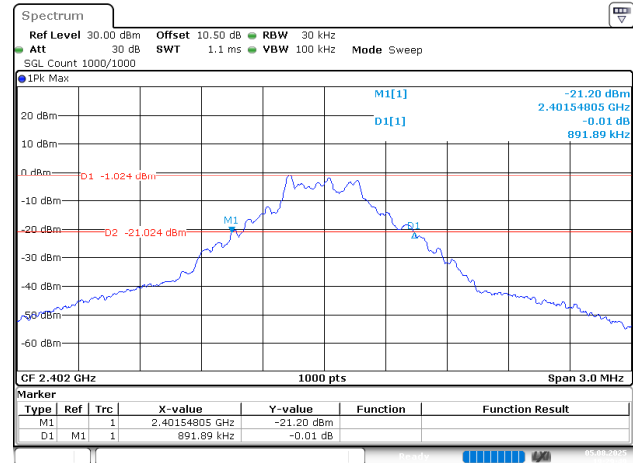
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

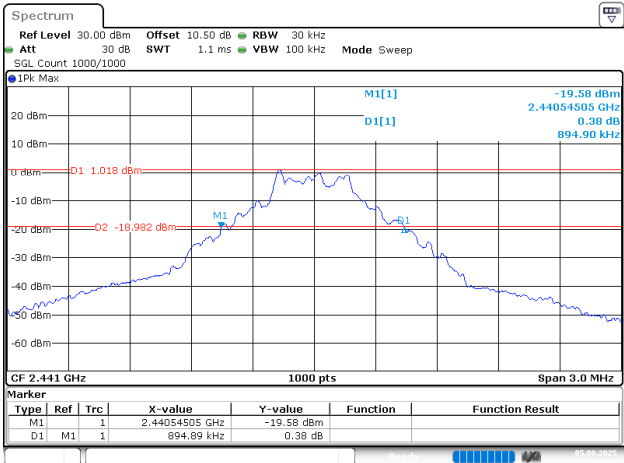
Test Modes	Packet Type	Channel	Result (MHz)
BDR Mode (GFSK)	DH1	Low	0.892
		Middle	0.895
		High	0.892
EDR Mode ($\pi/4$ -DQPSK)	2DH1	Low	1.270
		Middle	1.270
		High	1.270
EDR Mode (8DPSK)	3DH1	Low	1.261
		Middle	1.264
		High	1.258

DH1_Low



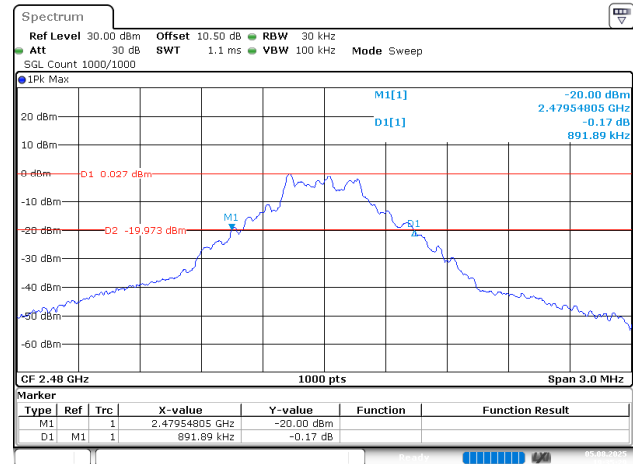
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:29:49

DH1_Middle



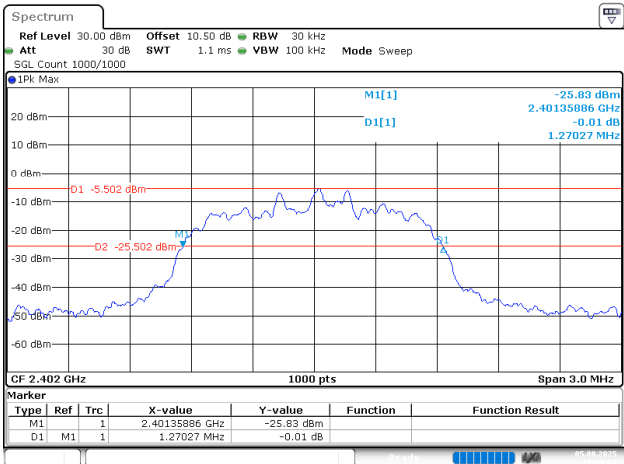
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:34:03

DH1_High



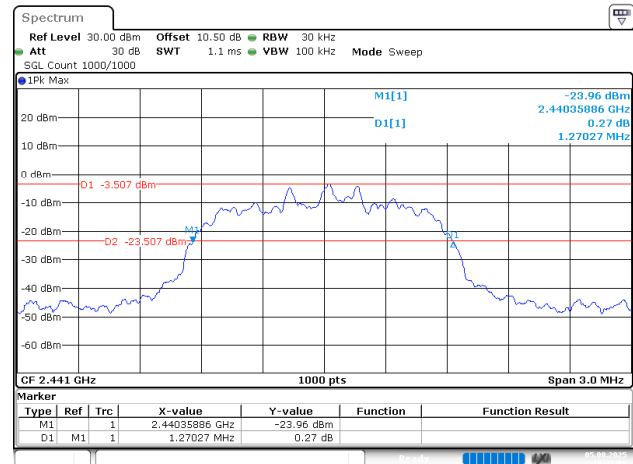
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:35:29

2DH1_Low



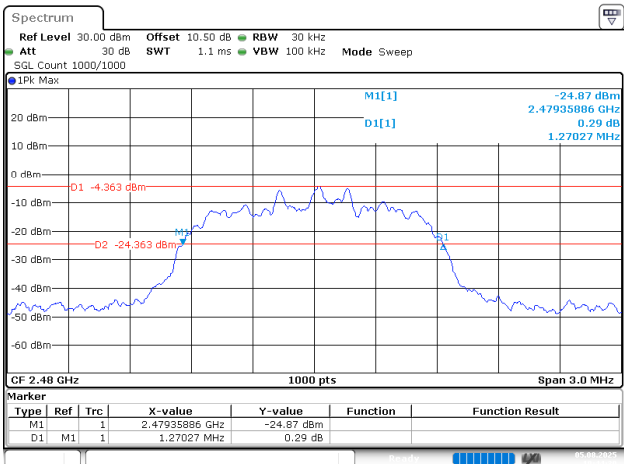
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:39:08

2DH1_Middle



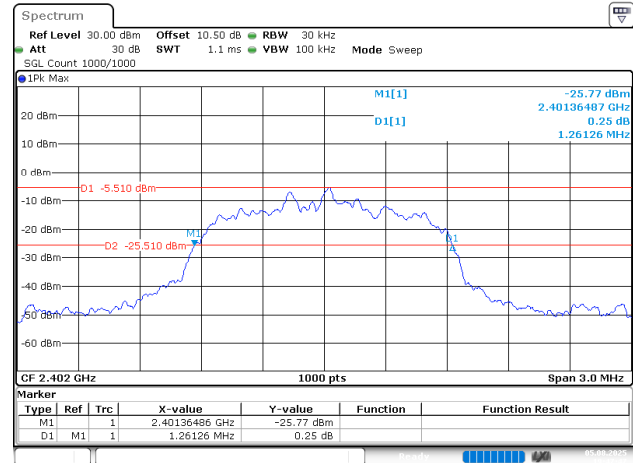
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:43:08

2DH1_High



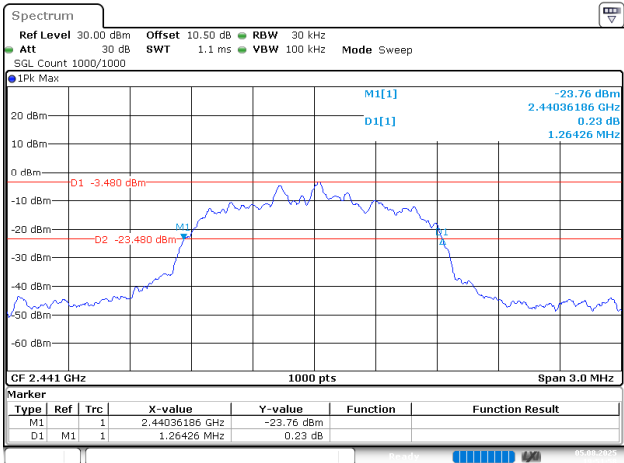
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:44:31

3DH1_Low



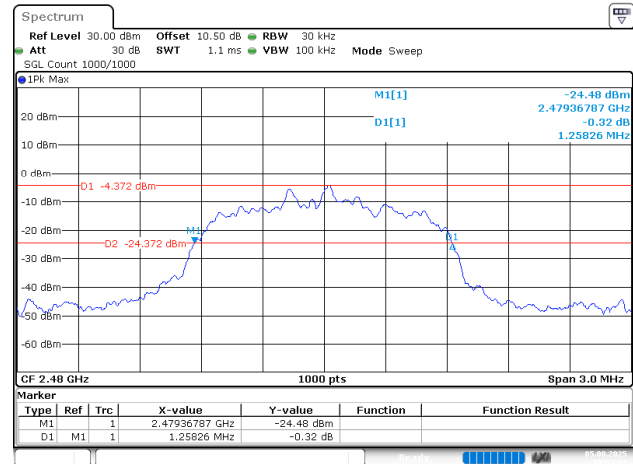
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:47:47

3DH1_Middle



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:51:58

3DH1_High



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:53:22

5.4 99% Occupied Bandwidth

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	70	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

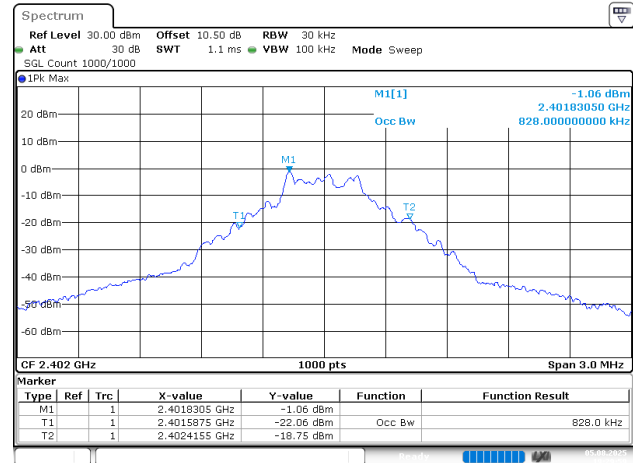
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

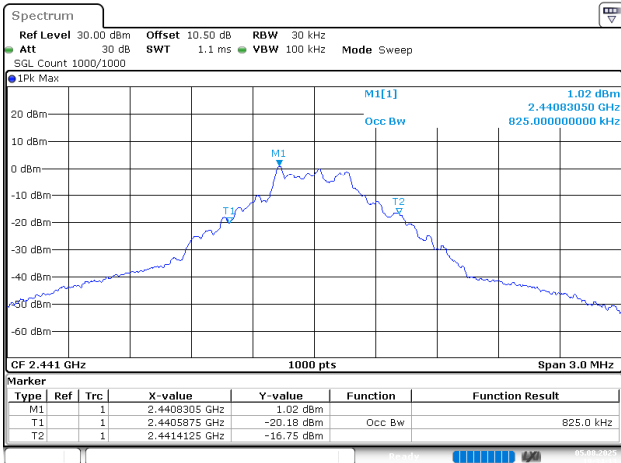
Test Modes	Packet Type	Channel	99% OBW (MHz)
BDR Mode (GFSK)	DH1	Low	0.828
		Middle	0.825
		High	0.831
EDR Mode ($\pi/4$ -DQPSK)	2DH1	Low	1.170
		Middle	1.170
		High	1.170
EDR Mode (8DPSK)	3DH1	Low	1.164
		Middle	1.167
		High	1.167

DH1_Low



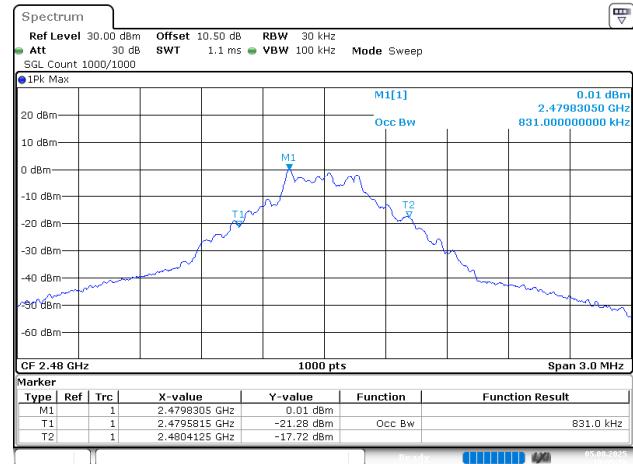
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:38:00

DH1_Middle



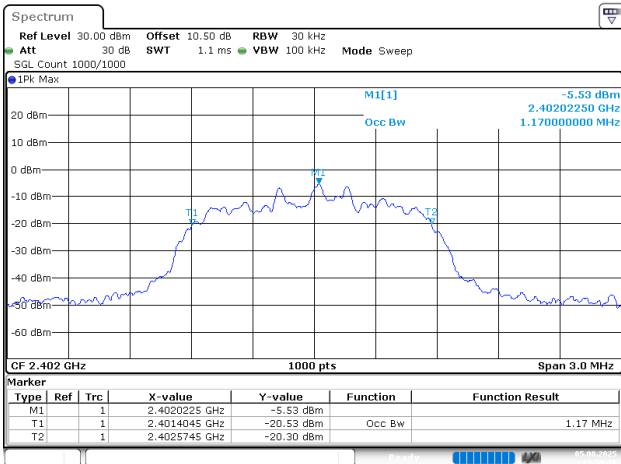
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:34:13

DH1_High



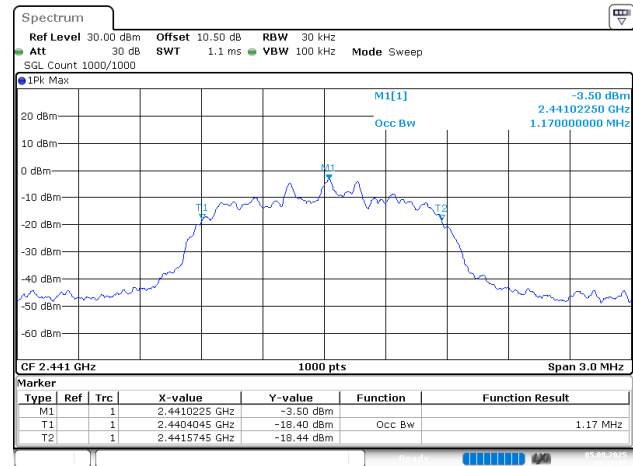
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:35:18

2DH1_Low



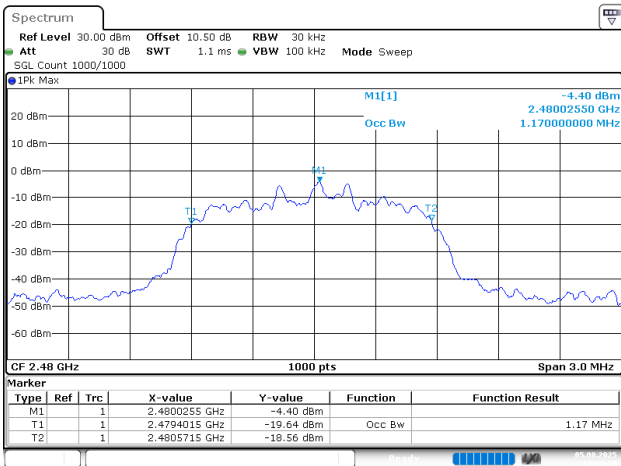
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:39:17

2DH1_Middle



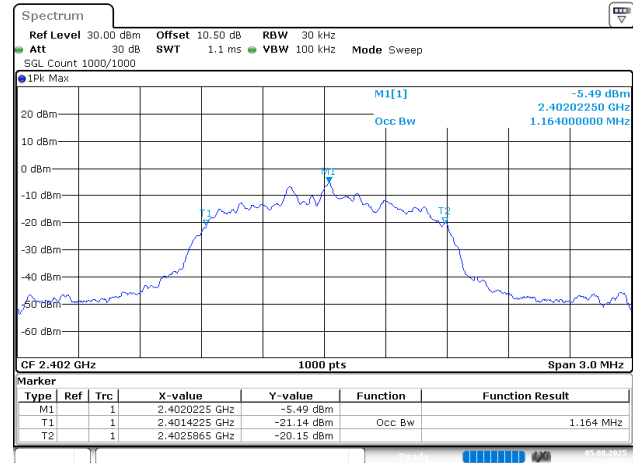
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:43:18

2DH1_High



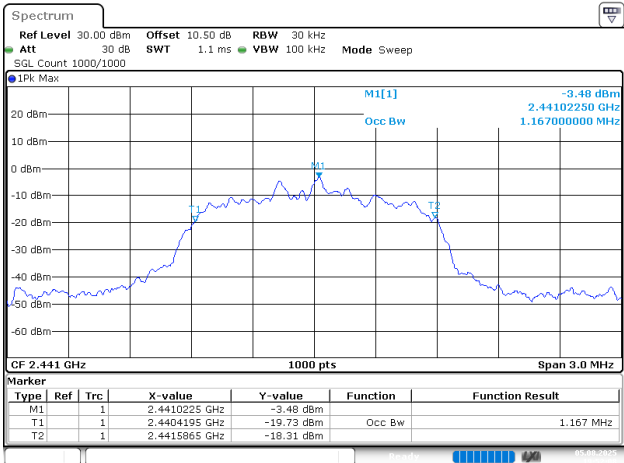
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:44:39

3DH1_Low



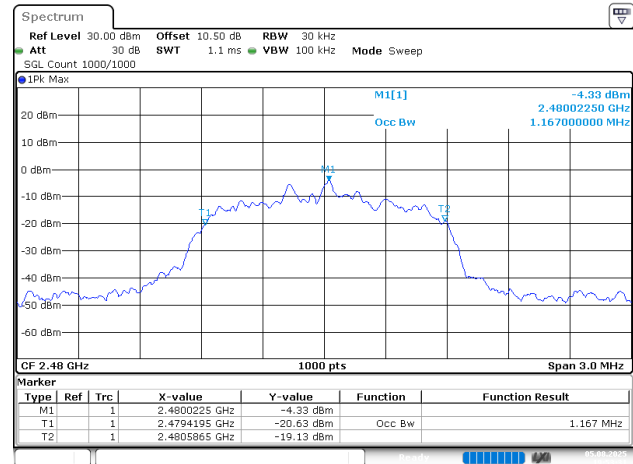
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:47:56

3DH1_Middle



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:52:08

3DH1_High



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:53:32

5.5 Channel Separation

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	70	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

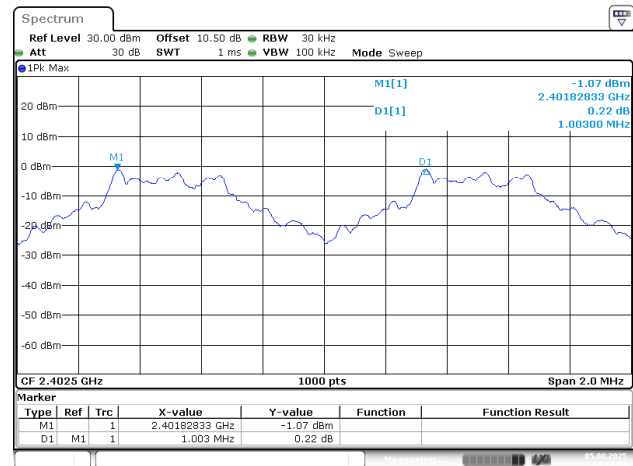
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Packet Type	Channel	Result (MHz)	Limit (MHz)	Verdict
BDR Mode (GFSK)	DH1	Low	1.003	0.847	Pass
		Middle	1.001	0.847	Pass
		High	1.003	0.847	Pass

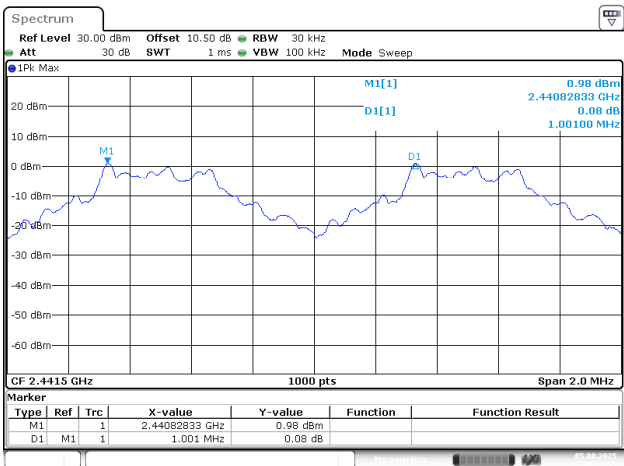
Note: Only the BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK) and EDR (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth *2/3.

DH1_Low



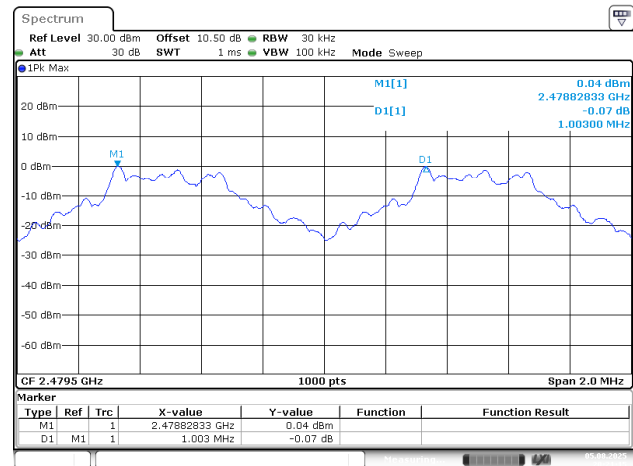
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:14:09

DH1_Middle



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:17:35

DH1_High



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:21:15

5.6 Number of Hopping Frequency

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	70	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

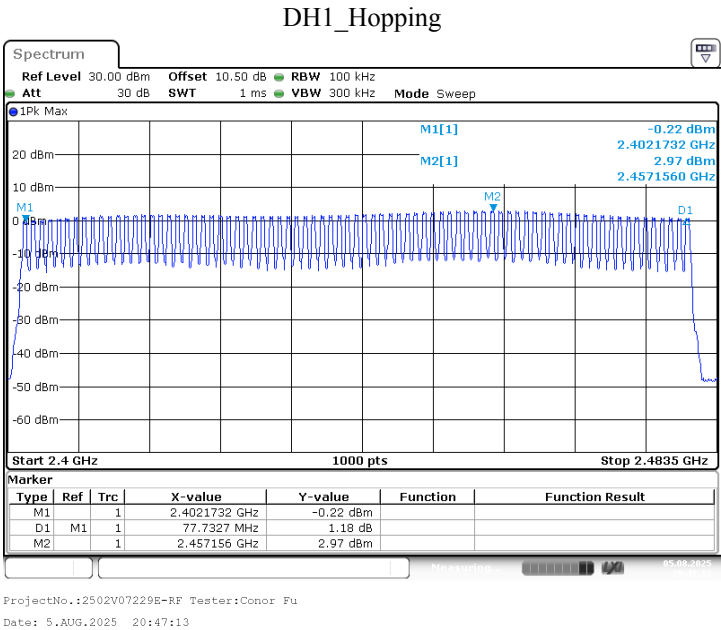
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Modes	Packet Type	Channel	Result	Limit	Verdict
BDR Mode (GFSK)	DH1	Hopping	79	15	Pass

Note: Only BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan.



5.7 Time of Occupancy (Dwell Time)

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/05~2025/08/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9-27.7	Relative Humidity: (%)	48-70	ATM Pressure: (kPa)	99.6-100.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

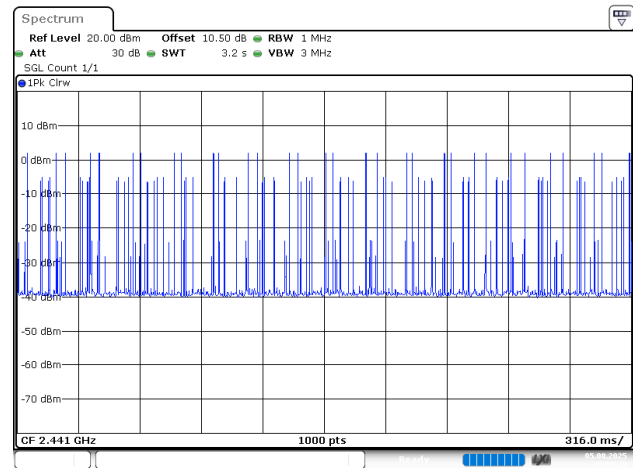
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Test Mode	Burst Width (ms)	Total Hops (Num)	Result (s)	Limit (s)	Verdict
GFSK_Hopping_DH1	0.407	320	0.130	≤ 0.4	Pass
GFSK_Hopping_DH3	1.673	160	0.268	≤ 0.4	Pass
GFSK_Hopping_DH5	2.928	120	0.351	≤ 0.4	Pass
π/4-DQPSK_Hopping_2DH1	0.390	320	0.125	≤ 0.4	Pass
π/4-DQPSK_Hopping_2DH3	1.649	180	0.297	≤ 0.4	Pass
π/4-DQPSK_Hopping_2DH5	2.913	110	0.320	≤ 0.4	Pass
8DPSK_Hopping_3DH1	0.396	320	0.127	≤ 0.4	Pass
8DPSK_Hopping_3DH3	1.649	150	0.247	≤ 0.4	Pass
8DPSK_Hopping_3DH5	2.908	110	0.320	≤ 0.4	Pass

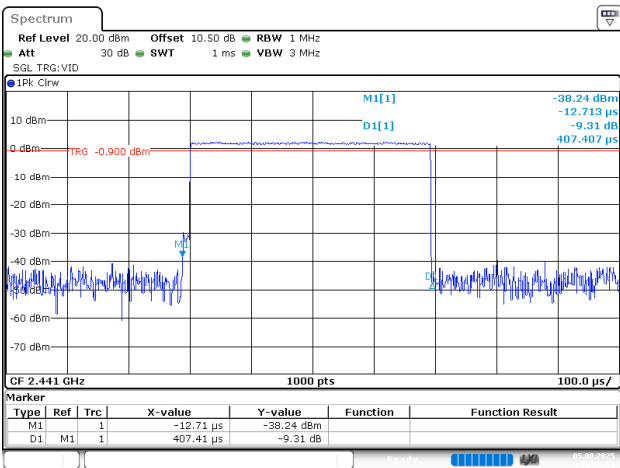
Note 1: A period time = 0.4*79 = 31.6(S), Result = BurstWidth * Totalhops
Note 2: Total hops = Hopping Number in 3.16s*10
Note 3: Hopping Number in 3.16s = Total of highest signals in 3.16s(Second high signals were other channel)

DH1_Hopping



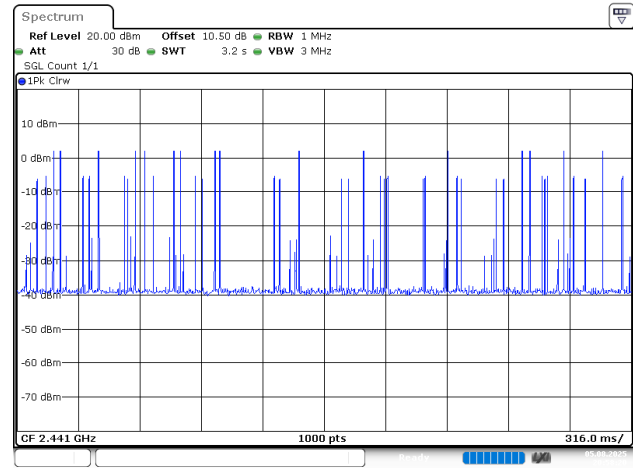
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:57:29

DH1_Hopping



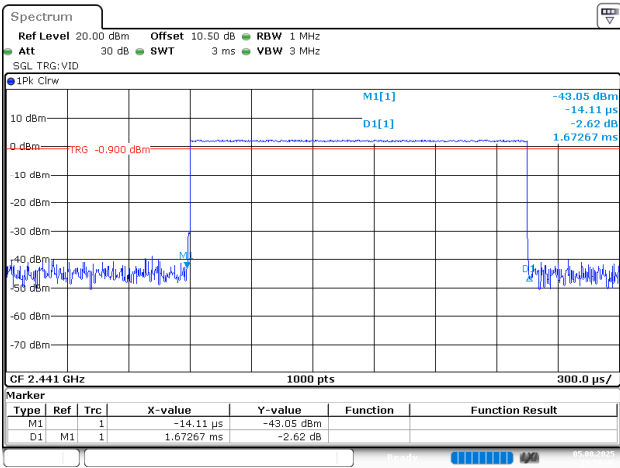
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:57:54

DH3_Hopping



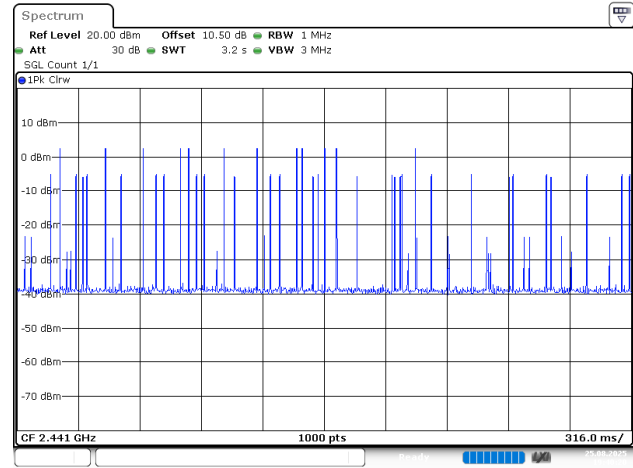
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:58:21

DH3_Hopping



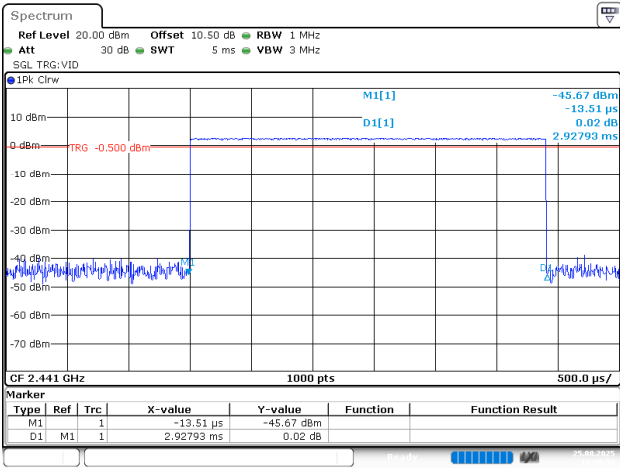
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:58:46

DH5_Hopping



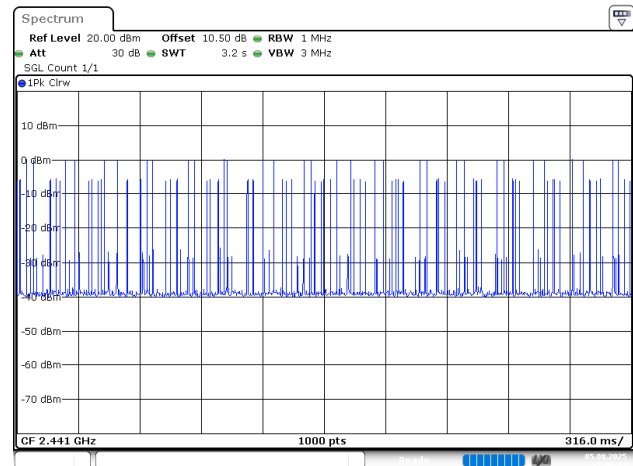
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:40:20

DH5_Hopping



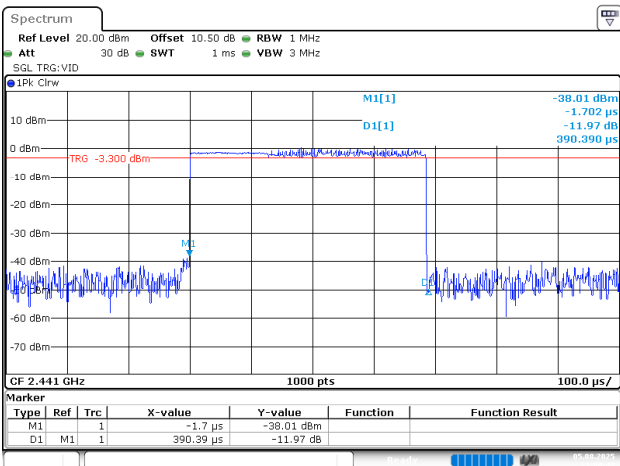
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:40:37

2DH1_Hopping



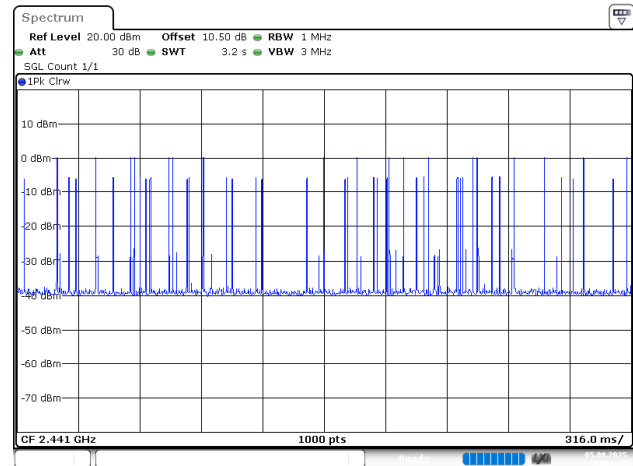
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:00:14

2DH1_Hopping



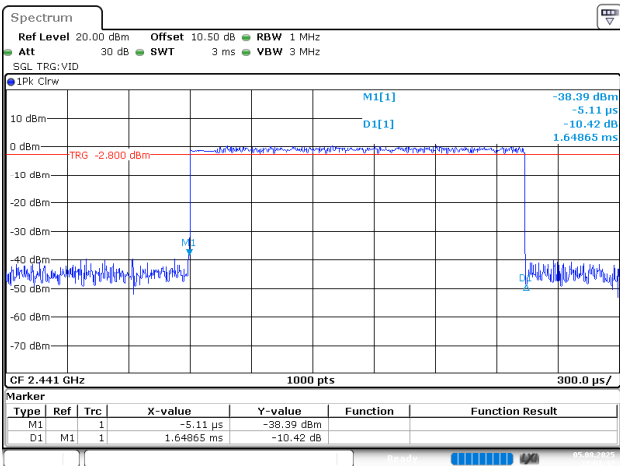
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:00:42

2DH3_Hopping



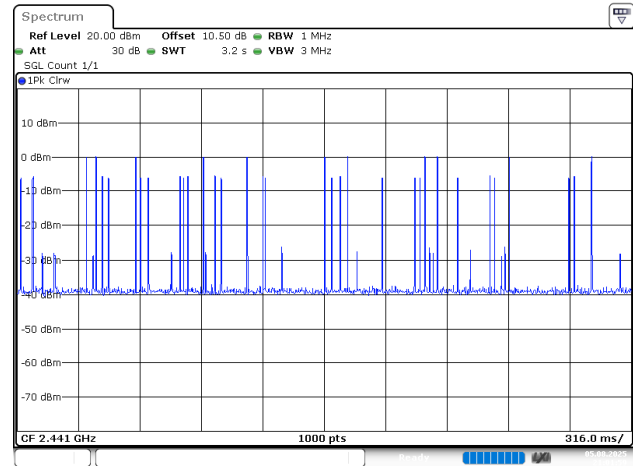
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:01:10

2DH3_Hopping



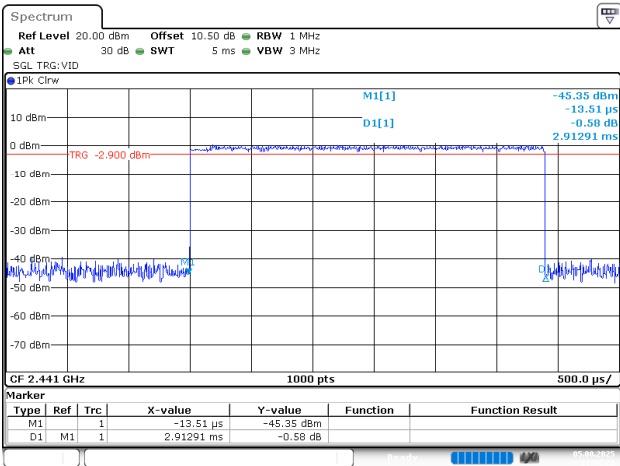
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:01:32

2DH5_Hopping



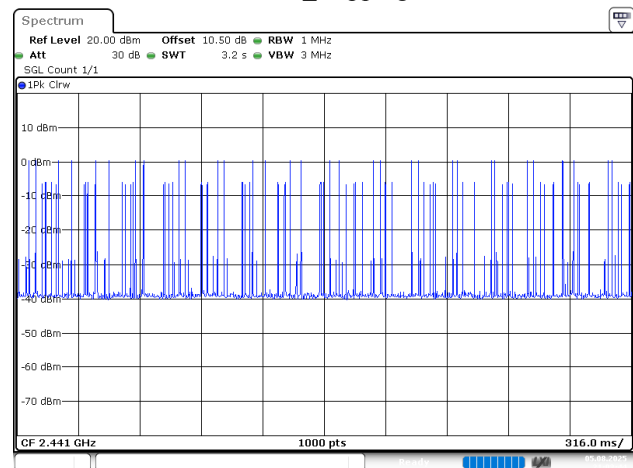
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:01:59

2DH5_Hopping



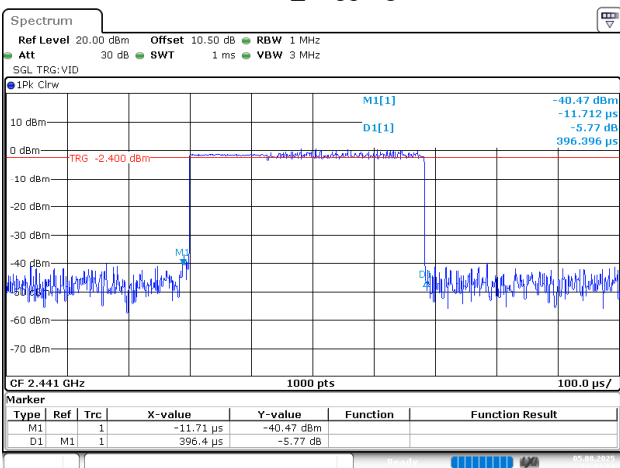
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:02:22

3DH1_Hopping



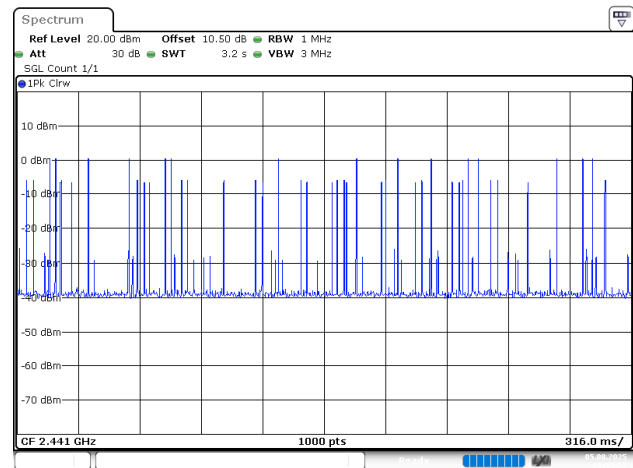
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:03:44

3DH1_Hopping



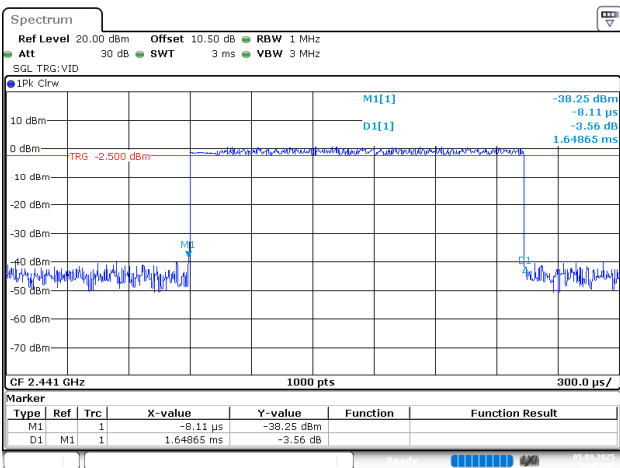
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:04:08

3DH3_Hopping



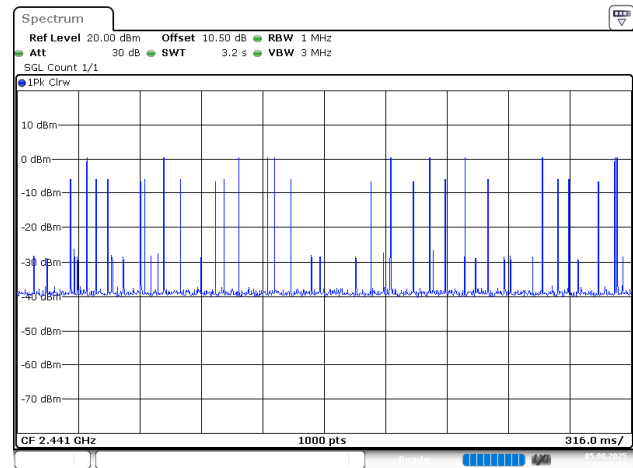
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:04:28

3DH3_Hopping



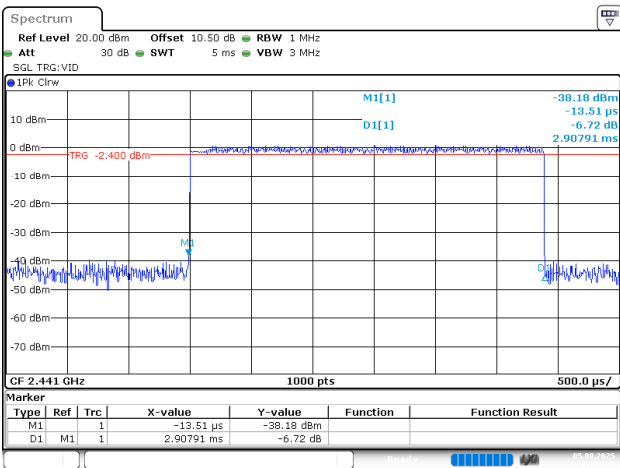
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:04:50

3DH5_Hopping



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:05:13

3DH5_Hopping



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 21:05:37

5.8 Maximum Conducted Output Power

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	70	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

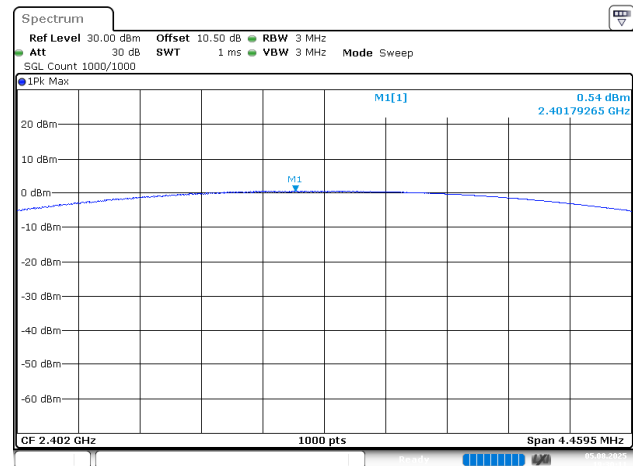
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

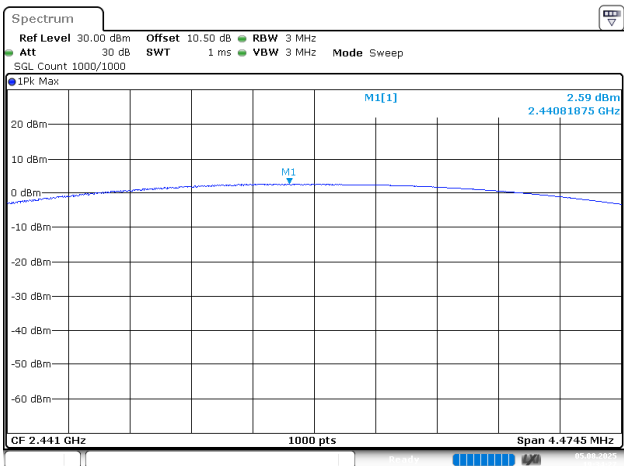
Test Modes	Packet Type	Test Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Verdict
BDR Mode (GFSK)	DH1	2402	0.54	21.00	Pass
		2441	2.59	21.00	Pass
		2457	3.67	21.00	Pass
		2480	1.59	21.00	Pass
EDR Mode (π/4-DQPSK)	2DH1	2402	-1.12	21.00	Pass
		2441	0.91	21.00	Pass
		2455	2.03	21.00	Pass
		2480	0.03	21.00	Pass
EDR Mode (8DPSK)	3DH1	2402	-0.74	21.00	Pass
		2441	1.27	21.00	Pass
		2460	2.30	21.00	Pass
		2480	0.42	21.00	Pass
Max EIRP Peak Output Power(dBm):			3.84	36.00	Pass

DH1_Low



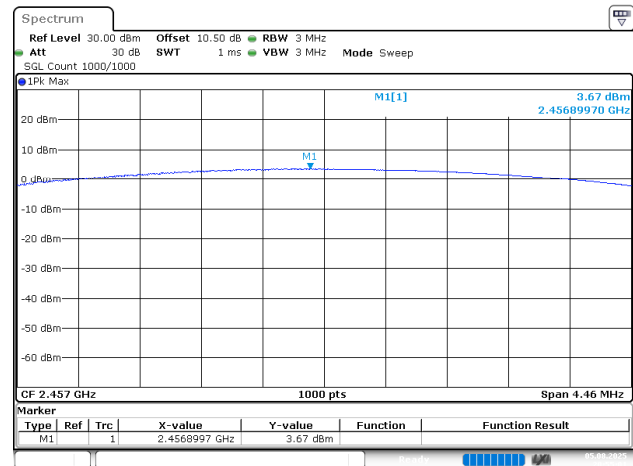
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:30:12

DH1_Middle



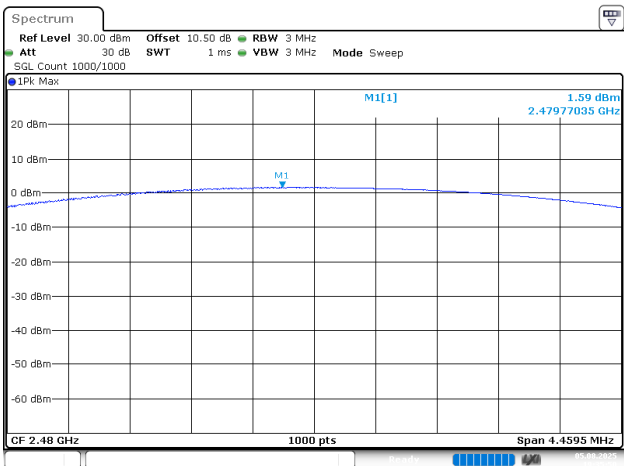
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:34:27

DH1_Additional



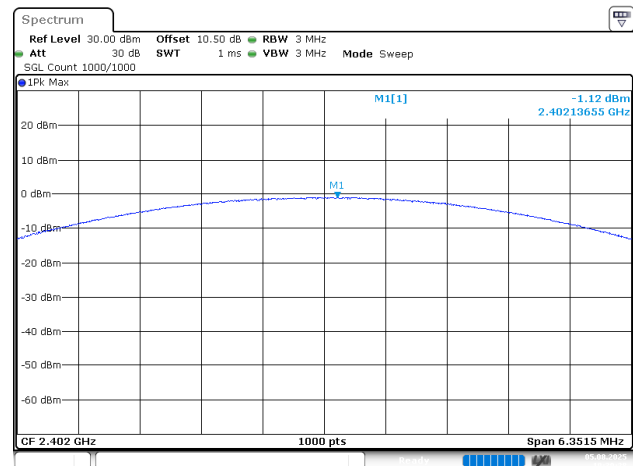
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:55:01

DH1_High



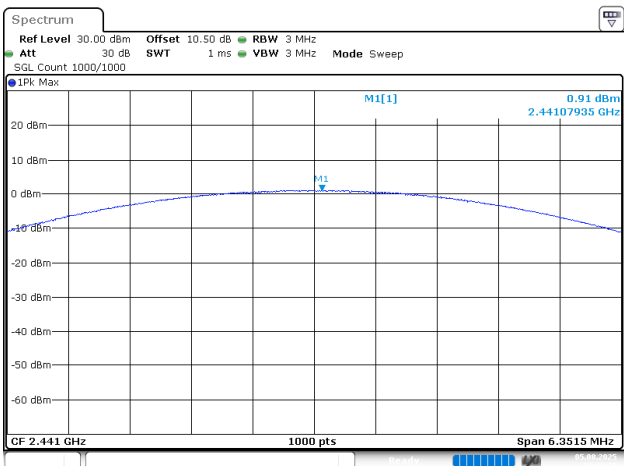
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:35:51

2DH1_Low



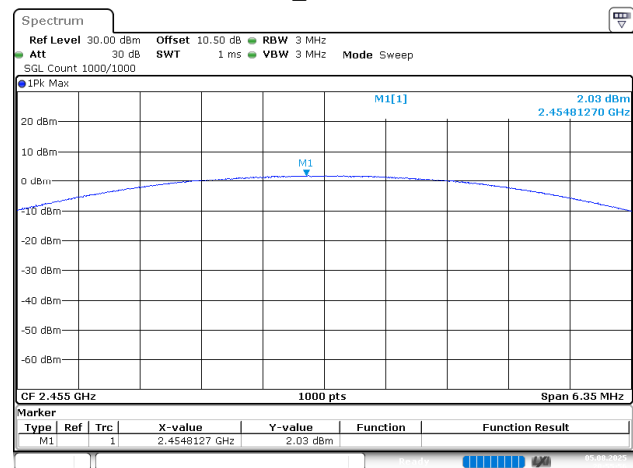
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:39:28

2DH1_Middle



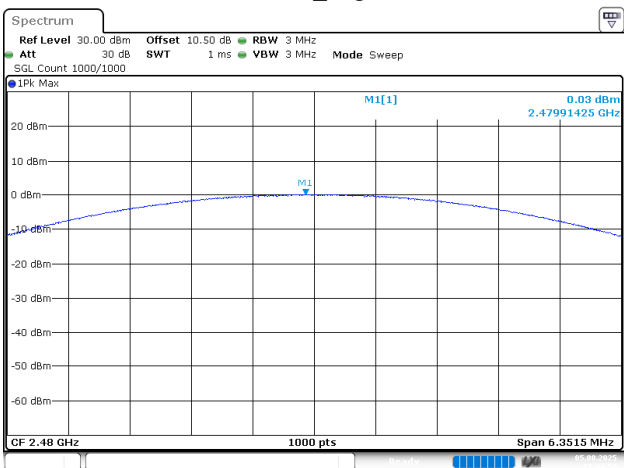
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:43:30

2DH1_Additional



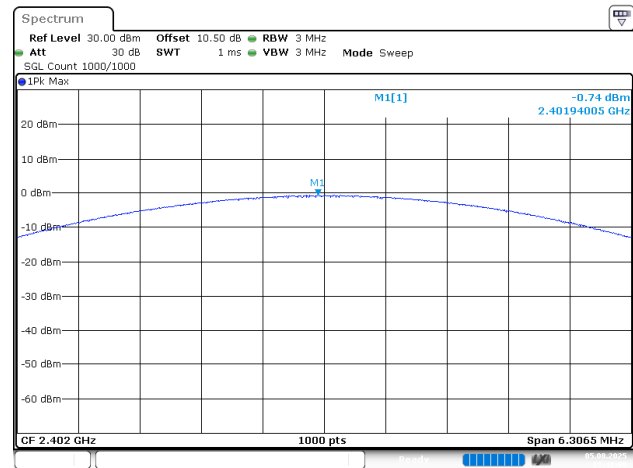
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:55:57

2DH1_High



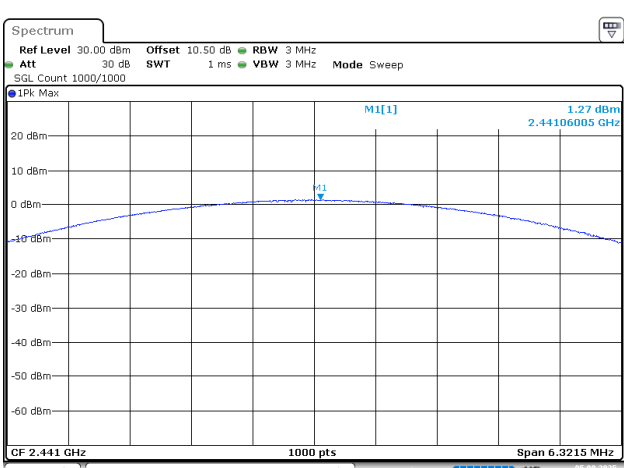
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:44:51

3DH1_Low



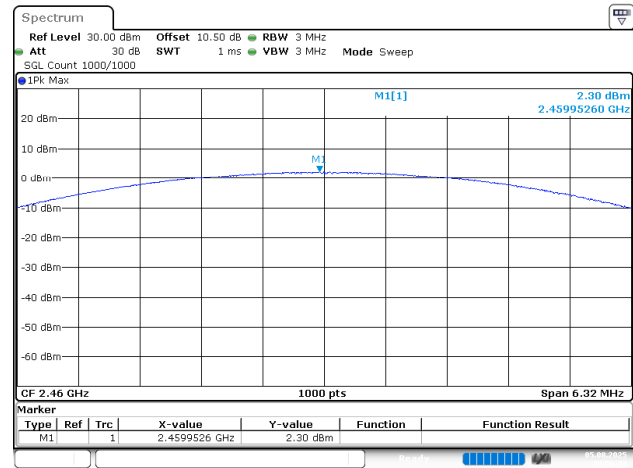
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:48:09

3DH1_Middle



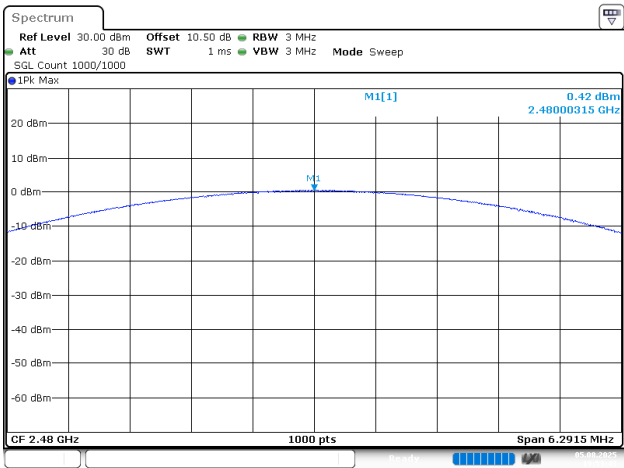
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:52:20

3DH1_Additional



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 20:56:44

3DH1_High



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 5.AUG.2025 19:53:44

5.9 Conducted Spurious Emission

Test Information:

Serial No.:	36BN-2	Test Date:	2025/08/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Conor Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.7	Relative Humidity: (%)	48	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

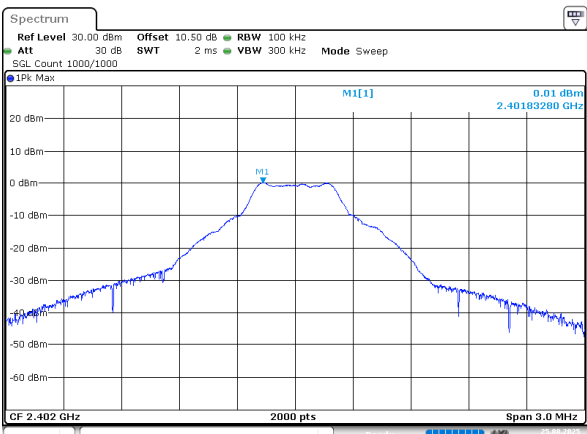
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2025/06/07	2026/06/06

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

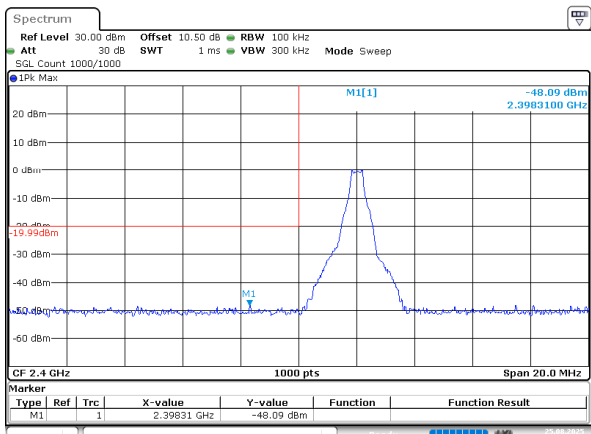
Note: the maximum offset setting is applied to configure conducted spurious emissions for 30MHz~25GHz.

DH1_Low_Reference Level



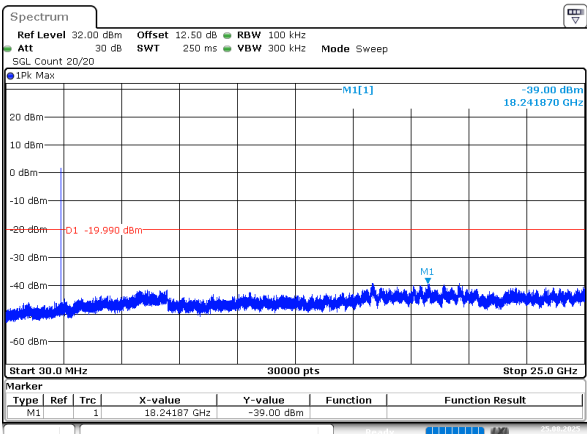
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:49:28

DH1_Low



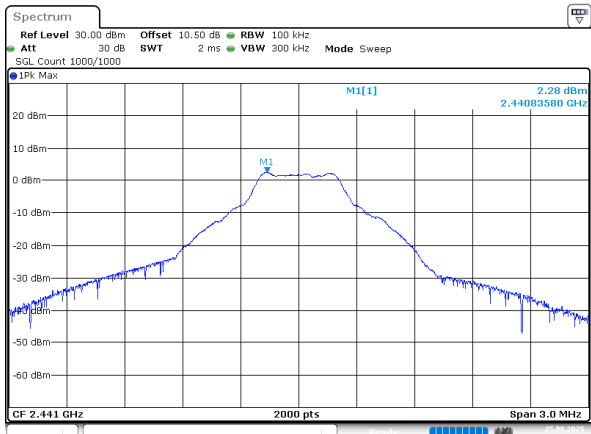
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:49:49

DH1_Low



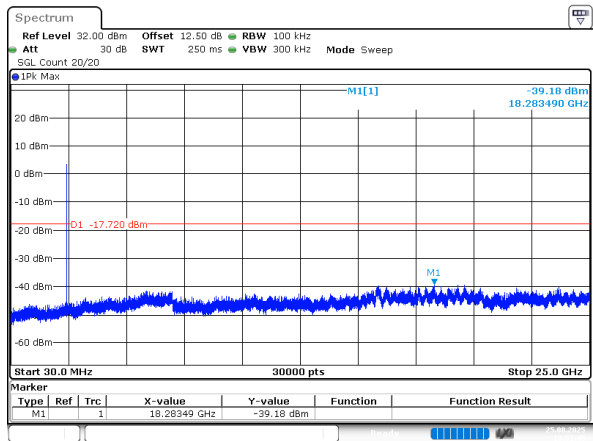
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:50:21

DH1_Middle_Reference Level



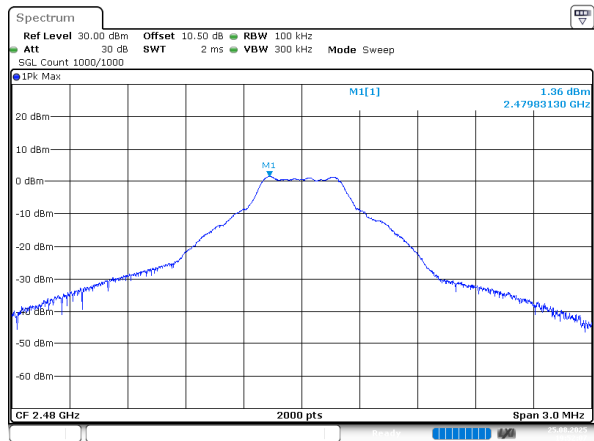
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:51:12

DH1_Middle



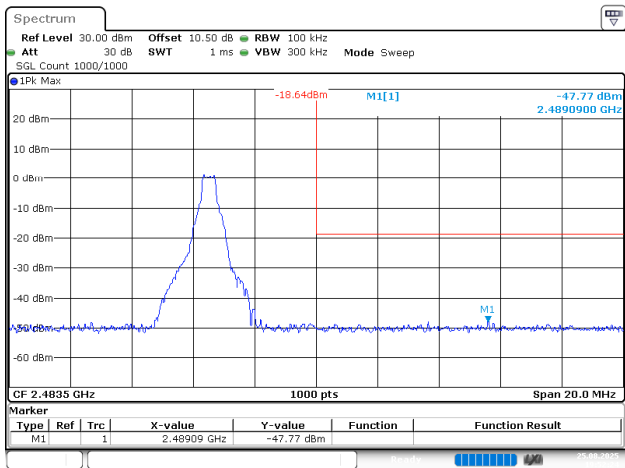
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:51:40

DH1_High_Reference Level



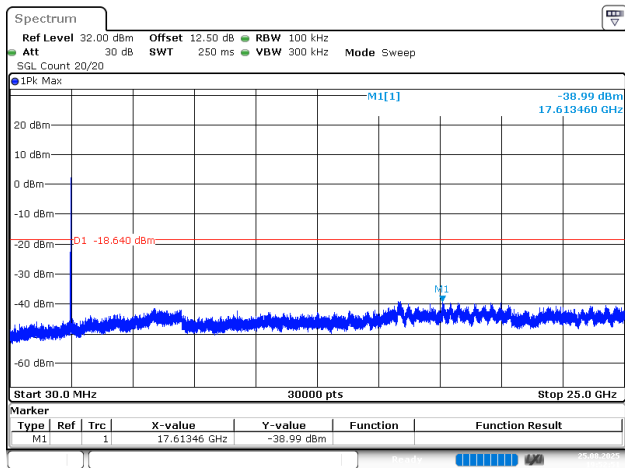
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:52:08

DH1_High



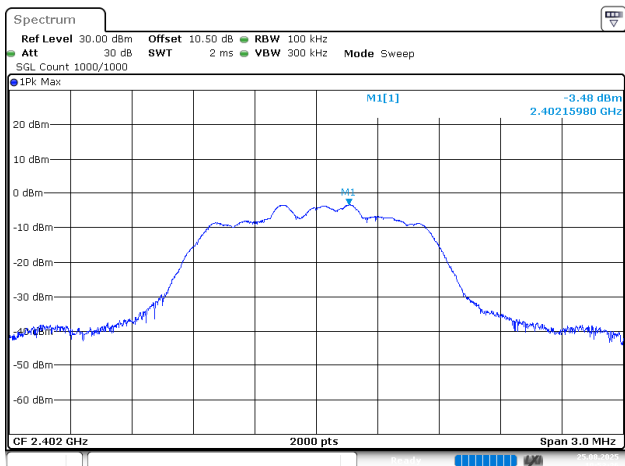
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:52:25

DH1_High



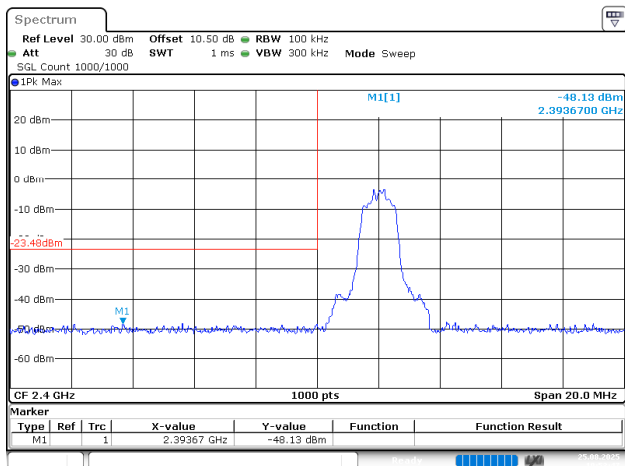
ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:52:52

2DH1_Low_Reference Level



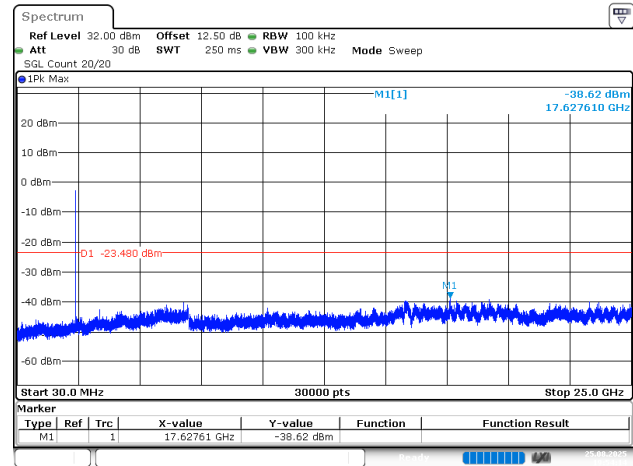
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Date: 25.AUG.2025 19:53:27

2DH1_Low



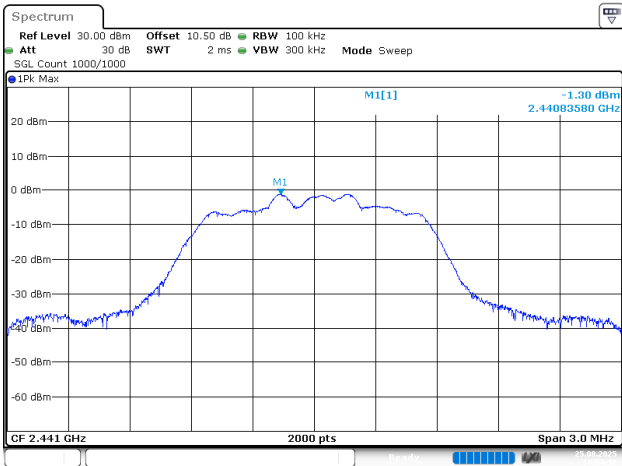
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Date: 25.AUG.2025 19:53:48

2DH1_Low



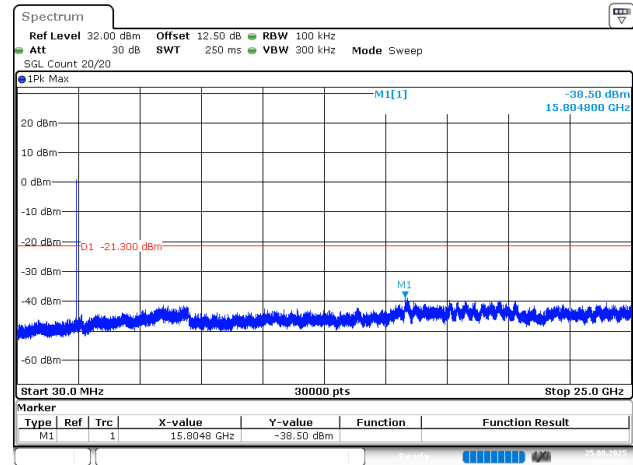
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Date: 25.AUG.2025 19:54:15

2DH1_Middle_Reference Level



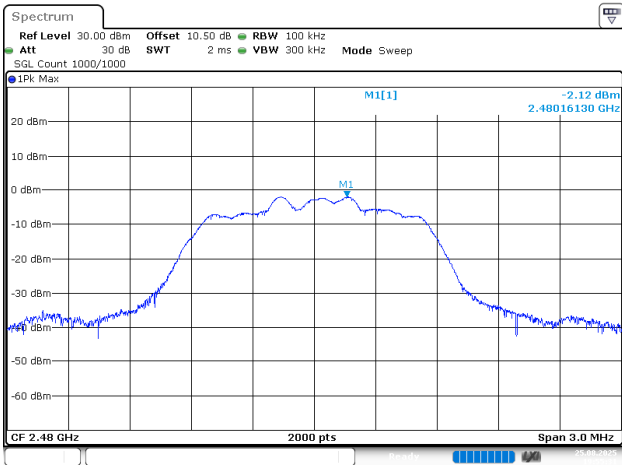
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Date: 25.AUG.2025 19:54:39

2DH1_Middle



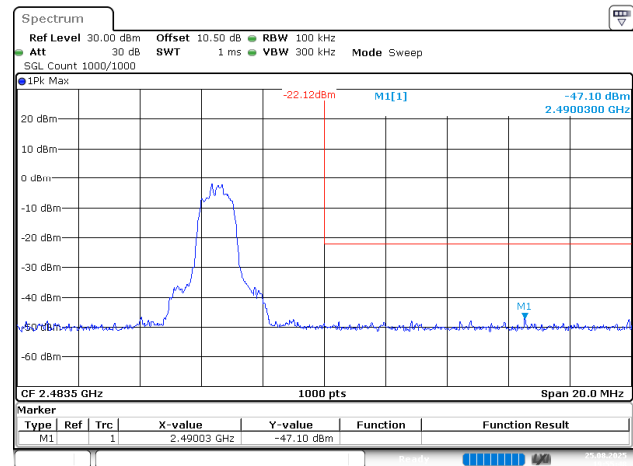
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2DH1_High_Reference Level



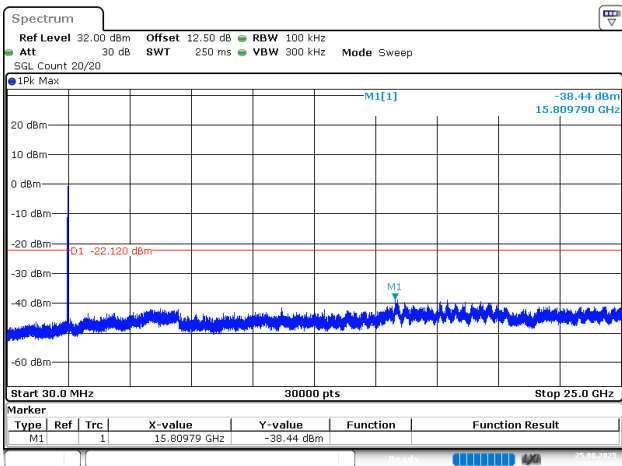
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2DH1_High



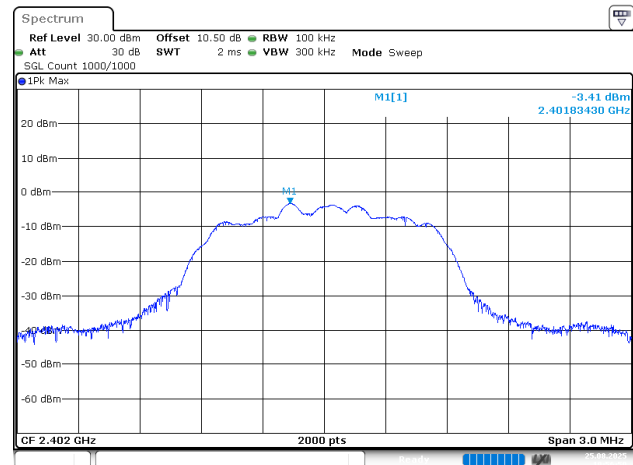
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2DH1_High



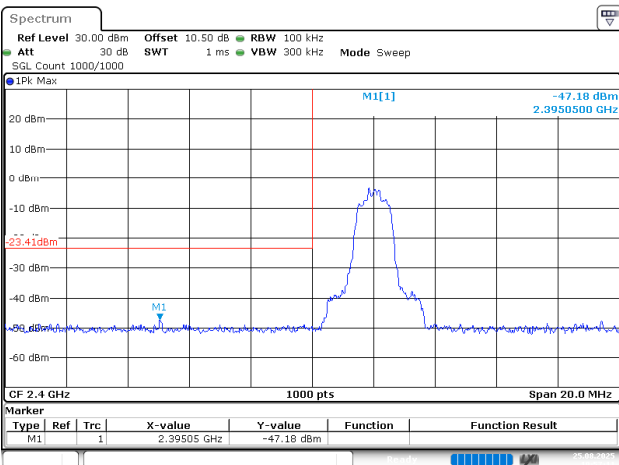
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3DH1_Low_Reference Level



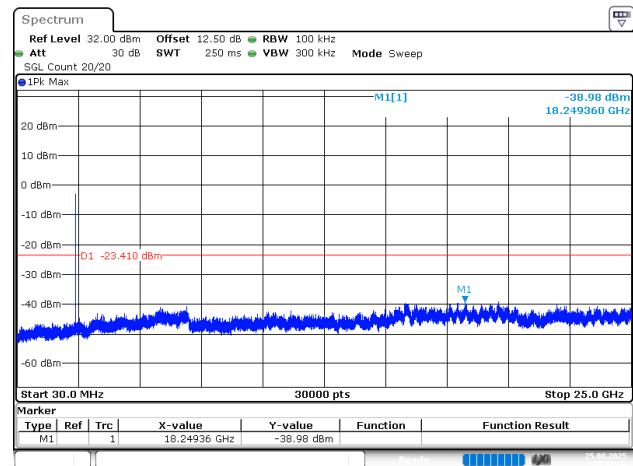
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3DH1_Low



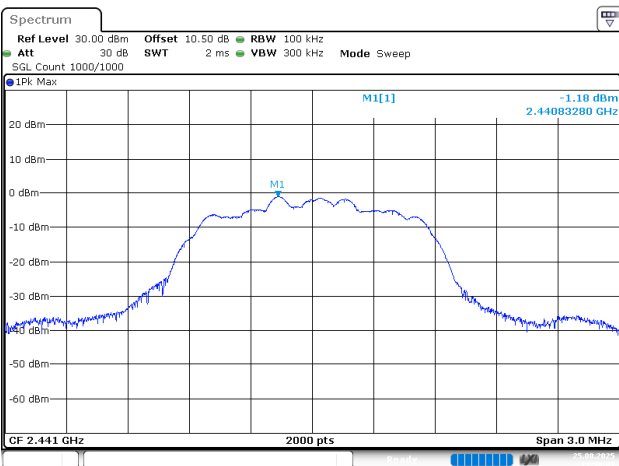
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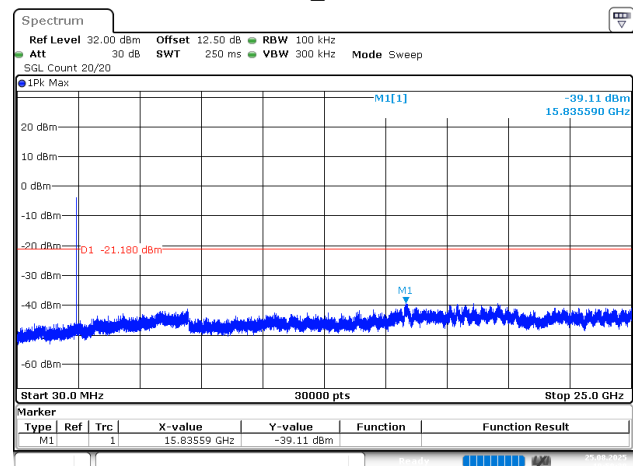
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3DH1_Middle_Reference Level



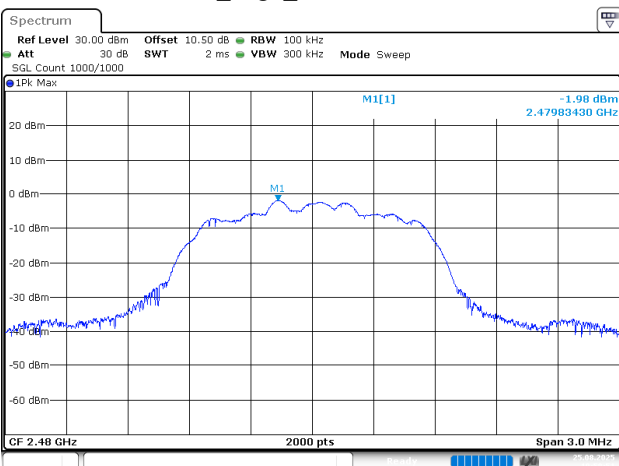
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3DH1_Middle



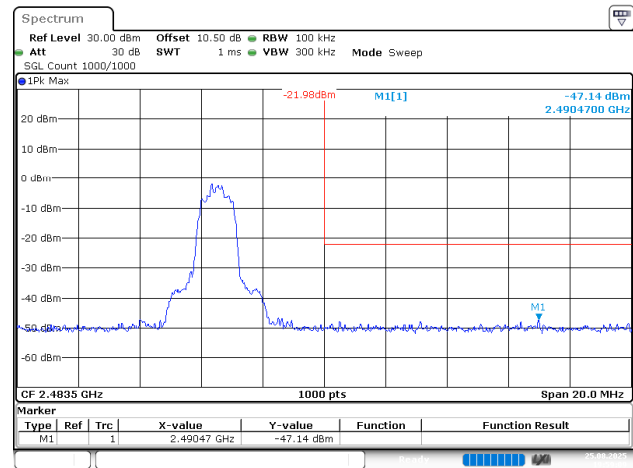
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3DH1_High_Reference Level



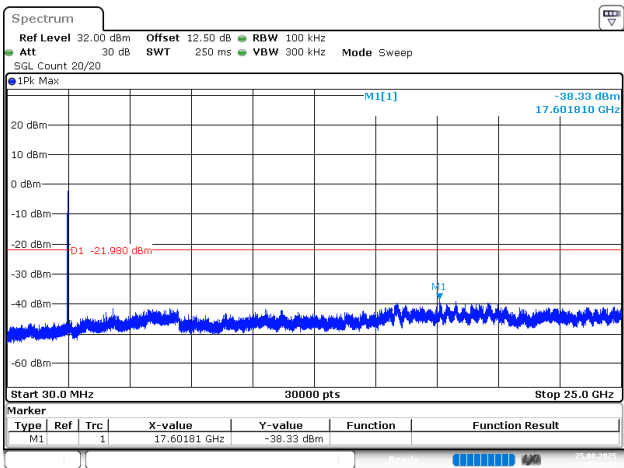
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3DH1_High



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:59:09

3DH1_High



ProjectNo.:2502V07229E-RF Tester:Conor Fu
Date: 25.AUG.2025 19:59:37

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2502V07229E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2502V07229E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502V07229E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

SAR EVALUATION

Applicable Standard

According to §15.247(i) and § 2.1093 and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

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

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

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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max conducted power including tune-up tolerance is 4.0 dBm (2.51mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 2.51/5 \cdot (\sqrt{2.480}) = 0.8 < 3.0$

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

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

Exemption Limits for Routine Evaluation-RF Exposure Evaluation

RSS-102, Issue 6, Clause 6.3:

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Measurement Result:

For BT:

The max tune-up conducted power is 4.0dBm(2.51mW), Antenna Gain:0.17dBi, EIRP is 4.17dBm(2.61mW)

The exemption power(P) limits for routine evaluation in 2402-2480MHz is:

$$(2480-2450)/(3500-2450)=(P-3)/(2-3)$$

$$\Rightarrow P=2.97 \text{ mW}@2480 \text{ MHz}$$

$$> 2.61 \text{ mW}$$

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

So, the stand-alone SAR evaluation can be exempted.

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