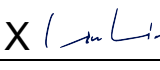


Prüfbericht-Nr.: Test report no.:	CN25R30T 001	Auftrags-Nr.: Order no.:	168557063	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-05-20	
Auftraggeber: Client:	Yingling Innovations Pte. Ltd. 24 Sin Ming Lane #06-97 Midview City, Singapore (573970)			
Prüfgegenstand: Test item:	Antigravity A1			
Bezeichnung / Typ-Nr.: Identification / Type no.:	DE001 (Trademark: ANTIGRAVITY)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	Article 2 Section 1 Item 19 Article 2 Section 1 Item 19-2-2			
Wareneingangsdatum: Date of sample receipt:	2025-06-05			
Prüfmuster-Nr.: Test sample no.:	A004005894-043~047			
Prüfzeitraum: Testing period:	2025-06-05 - 2025-08-22			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	X  Hardy Suo		genehmigt von: authorized by:	X  Lin Lin
Datum: Date:	2025-09-08		Ausstellungsdatum: Issue date:	2025-09-08
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	This report is for Bluetooth LE, 2.4GHz Wi-Fi and 2.4GHz SDR.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|---|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Bluetooth Low Energy

Appendix B: Test Results of 2.4GHz Wi-Fi

Appendix C: Test Results of 2.4GHz SDR 5M BW

Appendix D: Test Results of 2.4GHz SDR 10M BW

Appendix E: Test Results of 2.4GHz SDR 20M BW

Appendix F: Test Results of 2.4GHz SDR 40M BW

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2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until	Calibration Body	Calibration Method*
Signal Analyzer	R&S	FSV 40	101475	2024-09-26	2025-09-25	CCIC	c
Power Meter	R&S	NRP2	107105	2024-10-31	2025-10-30	CCIC	c
Power Sensor	R&S	NRP-Z81	105677	2024-09-26	2025-09-25	CCIC	c
DC Power Supply	KIKUSUI	PAN35-5A	YM002997	2025-02-22	2025-02-21	GRGTEST	c
Digital Multi Meter	FLUKE	F15B	44350844WS	2025-02-24	2025-02-23	GRGTEST	c

Calibration Method:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

2.3 Uncertainty of Measurement

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
Occupied Bandwidth	$\pm 2.08 \%$
Spurious emissions	$\pm 3.68 \text{ dB}$
Output power density	$\pm 0.99 \text{ dB}$
Antenna Power	$\pm 0.99 \text{ dB}$
Frequency Tolerance	0.104 ppm

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3 General Product Information

3.1 Product Function and Intended Use

The Product is a Antigravity A1 which supports Bluetooth LE, 2.4GHz SDR, 2.4GHz Wi-Fi and GNSS receiving functions.

*Remark: SDR means specific defined radio and cannot change radio specification via software / firmware by end-users.

Antigravity A1 (M/N: DE001) has an alternative FEM (Front-end Module) for 2.4GHz SDR:

- a. First FEM: M/N: 24611 for 2.4GHz SDR
- b. Alternative FEM: M/N: VC5331-21 for 2.4GHz SDR

Note: FEM integrates power amplifier (PA), low-noise amplifier (LNA) with bypass and transmit / receiver (T/R) switch functions.

Full testing performed on FEM M/N: 24611 for 2.4GHz SDR, additional testing of RF output power performed on alternative FEM M/N: VC5331-21 for 2.4GHz SDR.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment:	Antigravity A1
Type Designation:	DE001
Trademark:	ANTIGRAVITY
Operating Voltage:	DC 6-8.6V (Build-in battery) and charging by type-C port DC 5V/3A, DC 9V/3A, DC 12V/2.5A
Operating Temperature Range:	-10 °C ~ +40 °C
Technical Specification of Bluetooth (Bluetooth LE)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	Integral Antenna (Slot antenna)
Antenna Number:	2 (1Tx1Rx only: ANT FL or ANT BR)
Antenna Gain:	ANT FL: 1.06dBi@2400~2483.5MHz ANT BR: 0.89dBi@2400~2483.5MHz (Provided by the Client)
The type of wideband data transmission equipment:	Non-FHSS
rated RF output power:	Please refer to Note 1
Conducted RF output power:	Please refer to Note 1

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EIRP output power:	Please refer to Note 1
Technical Specification of 2.4GHz SDR	
Operating Frequency:	Transmitter: 2405 MHz to 2470 MHz for 5MHz Bandwidth 2410 MHz to 2465 MHz for 10MHz Bandwidth 2415 MHz to 2460 MHz for 20MHz Bandwidth 2420 MHz to 2455 MHz for 40MHz Bandwidth Receiver: 2405 MHz to 2470 MHz for 5MHz Bandwidth 2410 MHz to 2465 MHz for 10MHz Bandwidth
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM)
Channel Number:	14 channels for 5MHz BW 12 channels for 10MHz BW 10 channels for 20MHz BW 8 channels for 40MHz BW
Channel Separation:	5MHz
Bandwidth:	5/10/20/40MHz
Antenna Type:	Integral Antenna (Slot antenna)
Antenna Number:	4 (2Tx2Rx only: ANT FL+ ANT BR, or ANT BL+ ANT FR)
Antenna Gain:	ANT FL: 1.06dBi@2400~2483.5MHz ANT FR: 0.85dBi@2400~2483.5MHz ANT BL: 0.82dBi@2400~2483.5MHz ANT BR: 0.89dBi@2400~2483.5MHz (Provided by the Client)
The type of wideband data transmission equipment:	Non-FHSS
rated RF output power:	Please refer to Note 1
Conducted RF output power:	Please refer to Note 1
EIRP output power:	Please refer to Note 1
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 – 2472 MHz for 802.11b/g/n(HT20) 2422 – 2462 MHz for 802.11b/g/n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Channel Number:	13 channels for 20Mz BW 9 channels for 40MHz BW
Channel Separation:	5MHz
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20) MCS0 ~ MCS7 for 802.11n(HT40)
Antenna Type:	Integral Antenna (Slot antenna)
Antenna Number:	2 (1Tx1Rx only: ANT FL or ANT BR)
Antenna Gain:	ANT FL: 1.06dBi@2400~2483.5MHz ANT BR: 0.89dBi@2400~2483.5MHz (Provided by the Client)
The type of wideband data transmission equipment:	Non-FHSS
rated RF output power:	Please refer to Note 1
Conducted RF output power:	Please refer to Note 1
EIRP output power:	Please refer to Note 1

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Note 1: The power table as below table:

Test mode	Rated power	Conducted power	EIRP power
Bluetooth LE 1Mbps	10.0 mW	3.6983 mW	6.74 dBm
Bluetooth LE 2Mbps	10.0 mW	3.6813 mW	6.72 dBm
802.11b	10.0 mW/MHz	9.9312 mW/MHz	11.03 dBm/MHz
802.11g	10.0 mW/MHz	5.9020 mW/MHz	8.77 dBm/MHz
802.11n (HT20)	10.0 mW/MHz	5.4450 mW/MHz	8.42 dBm/MHz
802.11n (HT40)	5.0 mW/MHz	2.8184 mW/MHz	5.56 dBm/MHz
2.4GHz SDR 5MHz BW	10.0 mW/MHz	6.0534 mW/MHz	8.67 dBm/MHz
2.4GHz SDR 10MHz BW	10.0 mW/MHz	6.2517 mW/MHz	8.80 dBm/MHz
2.4GHz SDR 20MHz BW	10.0 mW/MHz	5.8479 mW/MHz	8.52 dBm/MHz
2.4GHz SDR 40MHz BW	5.0 mW/MHz	3.0549 mW/MHz	5.88 dBm/MHz

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Table 4: RF Channel and Frequency of Bluetooth LE

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Table 5: RF Channel and Frequency of 2.4GHz SDR

2.4GHz SDR (Transmitter)				
RF Channel	2.4GHz SDR, 5MHz BW	2.4GHz SDR, 10MHz BW	2.4GHz SDR, 20MHz BW	2.4GHz SDR, 40MHz BW
	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
01	2405			
02	2410	2410		
03	2415	2415	2415	
04	2420	2420	2420	2420
05	2425	2425	2425	2425
06	2430	2430	2430	2430
07	2435	2435	2435	2435
08	2440	2440	2440	2440
09	2445	2445	2445	2445
10	2450	2450	2450	2450
11	2455	2455	2455	2455
12	2460	2460	2460	
13	2465	2465		
14	2470			

2.4GHz SDR (Receiver)		
RF Channel	2.4GHz SDR, 5MHz BW	2.4GHz SDR, 10MHz BW
	Frequency (MHz)	Frequency (MHz)
01	2405	
02	2410	2410
03	2415	2415
04	2420	2420
05	2425	2425
06	2430	2430
07	2435	2435
08	2440	2440
09	2445	2445
10	2450	2450
11	2455	2455
12	2460	2460
13	2465	2465
14	2470	

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Table 6: RF Channel and Frequency of 2.4GHz Wi-Fi

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	
02	2417	
03	2422	
04	2427	2422
05	2432	2427
06	2437	2432
07	2442	2437
08	2447	2442
09	2452	2447
10	2457	2452
11	2462	2457
12	2467	2462
13	2472	

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3.3 Antenna Specifications

3.3.1 Antenna Gain

Mode	Ant. Type	Connector Type	Highest Peak Gain (dBi) 2.4GHz ~ 2.5GHz
Bluetooth LE 1Mbps, 2Mbps	Integral Antenna (Slot antenna)	N/A	ANT FL: 1.06dBi@2400~2483.5MHz ANT BR: 0.89dBi@2400~2483.5MHz
2.4GHz Wi-Fi	Integral Antenna (Slot antenna)	N/A	ANT FL: 1.06dBi@2400~2483.5MHz ANT BR: 0.89dBi@2400~2483.5MHz
2.4GHz SDR	Integral Antenna (Slot antenna)	N/A	ANT FL: 1.06dBi@2400~2483.5MHz ANT FR: 0.85dBi@2400~2483.5MHz ANT BL: 0.82dBi@2400~2483.5MHz ANT BR: 0.89dBi@2400~2483.5MHz

3.3.2 Antenna Pattern

Please refer to the attached file (Antenna report).

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- Operation Description
- PCB Layout
- User Manual
- Block Diagram
- Rating Label

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4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 6.

According to clause 3.1, all tests were performed on model *DE001* in this report.

Table 7: Test Conditions

Test conditions	Unit
Voltage _{normal}	7.2V dc
Voltage _{max}	8.6V dc
Voltage _{min}	6V dc
Temperature	24.8 deg.C
Humidity	55 %

4.3 Special Accessories and Auxiliary Equipment

Table 8: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

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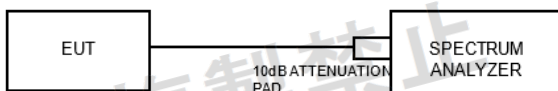
5 Test Results

5.1 Frequency Tolerance Measurement

5.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50ppm

5.1.2 Test Setup



5.1.3 Condition of Measuring Instrument

- (1) As a frequency meter, use a frequency counter or spectrum analyzer (with a synthesizer type local oscillator).
- (2) The measurement accuracy of the frequency meter shall be 1/10 or less of the allowable value specified in the Equipment Regulations.
- (3) When measuring burst waves, set the gate open time to the time that allows the entire burst section to be measured.

5.1.4 Condition of Test Equipment

- (1) Set the test frequency and transmit.
- (2) Stop modulation and continuously transmit non-modulated waves. However, if modulation is stopped and continuous transmission of unmodulated waves cannot be performed, continuous burst transmission of unmodulated waves or a modulation state that produces a characteristic frequency spectrum whose frequency can be measured by a spectrum analyzer is used.

5.1.5 Measurement procedure

- (1) In the case of unmodulated waves (continuous or continuous burst), measure directly with a frequency meter.
- (2) In the case of burst waves, measure for the time period when sufficient accuracy is obtained, calculate the average value, and use it as the measured value.
- (3) If the test mode produces a characteristic frequency spectrum, measure the frequency of that spectrum with a spectrum analyzer.

5.1.6 Test Results

Result: **PASS**

For the measurement records, refer to the appendix A-F.

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5.2 Occupied Bandwidth Measurement (99% Power Bandwidth)

5.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit	Remark
Occupied bandwidth	shall be 83.5MHz or less	FHSS
Occupied bandwidth	<26MHz	For 20M
Occupied bandwidth	<40MHz	For 40M

5.2.2 Test Setup



5.2.3 Measuring Instrument Conditions

Set the spectrum analyzer as follows.

Center frequency: Test frequency

Sweep frequency width From about 2 times to about 3.5 times the allowable value specified in the equipment regulations

Resolution bandwidth: 3% or less of the allowable value specified in the equipment regulations

Video bandwidth: Same as resolution bandwidth

Input level: The level at which the carrier wave level can be measured without being affected by the noise level of the spectrum analyzer.

Sweep time: Minimum time for guaranteed measurement accuracy
(In the case of burst waves, when more than 1 burst per sample)

Sweep mode: Continuous sweep

Detection mode: Positive peak (Note)

Display mode: Max hold (Note)

Note: For OFDM and other than burst waves, the following shall apply.

Average processing times 10 times or more

Detection mode sample

5.2.4 Test Results

Result: **PASS**

For the measurement records, refer to the appendix A-F.

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5.3 Spreading Bandwidth Measurement (90% Power Bandwidth)

5.3.1 Limits of Spreading Bandwidth and Spreading Factor

Item	Limit	Remark
Spreading Bandwidth	$\geq 500\text{kHz}$	(For DSSS, FHSS)
Spreading Factor	≥ 5	Operating frequency 2400 to 2483MHz
	≥ 10	Operating frequency 2471 to 2497MHz

5.3.2 Test Setup



5.3.3 Measuring Instrument Conditions

Set the spectrum analyzer as follows.

Center frequency: Test frequency

Sweep frequency width: From about 2 times to about 3.5 times the allowable value specified in the equipment regulations

Resolution bandwidth: 3% or less of the allowable value specified in the equipment regulations

Video bandwidth: Same as resolution bandwidth

Input level: The level at which the carrier wave level can be measured without being affected by the noise level of the spectrum analyzer.

Sweep time: Minimum time for guaranteed measurement accuracy

(In the case of burst waves, when more than 1 burst per sample)

Sweep mode: Continuous sweep

Detection mode: Positive peak (Note)

Display mode: Max hold (Note)

Note: For OFDM and other than burst waves, the following shall apply.

Average processing times 10 times or more

Detection mode sample

5.3.4 Test Results

Result: **PASS**

For the measurement records, refer to the appendix A-F.

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5.4 Spurious Emissions for Transmitter Measurement

5.4.1 Limits of Spurious Emissions

Frequencies (MHz)	Limit
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 2387MHz	$\leq 2.5\mu\text{W/MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\mu\text{W/MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\mu\text{W/MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5\mu\text{W/MHz}$

5.4.2 Test Setup



5.4.3 Conditions of The Measuring Instrument.

- (1) The spectrum analyzer when searching for **unwanted emissions** is set as follows.
 - Sweep frequency width: 30MHz to 26GHz (Note)
 - Resolution bandwidth: 1MHz
 - Video bandwidth: Same as resolution bandwidth
 - Y-axis scale: 10dB/Div
 - Input level: Maximum dynamic range value
 - Sweep time: The minimum time for which measurement accuracy is guaranteed (in the case of burst waves, it can be longer than the time obtained by "(sweep frequency width (MHz)/resolution Bandwidth (MHz)) × burst period (s)".) It can be longer than the time required
 - Number of data points: 400 or more data points
 - Sweep mode: Single sweep
 - Detection mode: positive peak
- (2) Set the spectrum analyzer as follows when measuring unwanted emission amplitude.
 - Center frequency: Unwanted emission frequency (searched frequency)
 - Sweep frequency width: 0Hz
 - Resolution bandwidth: 1MHz
 - Video bandwidth: Same as resolution bandwidth
 - Y-axis scale: 10dB/Div
 - Input level Maximum dynamic range value
 - Sweep time; The minimum time for which the measurement accuracy is guaranteed (in the case of burst waves, the duration of one burst or more)
 - Number of data points: 400 or more data points
 - Sweep mode: Single sweep
 - Detection mode: sample

5.4.4 Others

- (1) In 2(2), the detection mode of the spectrum analyzer at the time of amplitude measurement can use RMS (referred to as the true value of power) instead of sampling.
- (2) In (1), if the burst time rate (Note) of unwanted emission is obtained for each unwanted emission frequency, the sweep frequency width can be set to about 10 MHz in (2).

Note: Burst time rate = time during which radio waves are emitted/burst period.

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5.4.5 Conditions of the measuring instrument

- (1) Use a carrier suppression filter as necessary.
 - (2) The settings of the spectrum analyzer when searching for spurious are as follows.
Sweep frequency width: Search for spurious from the lowest possible frequency to three times or more of the carrier frequency.
Resolution bandwidth: 100 kHz below 1 GHz, 1 MHz above 1 GHz
Video bandwidth: Same as resolution bandwidth
Y-axis scale: 10dB/Div
Input level: Maximum dynamic range value
Sweep time: Minimum time for guaranteed measurement accuracy
Number of data points: 400 or more data points
Sweep mode: Single sweep
Detection mode: positive peak
 - (3) Set the spectrum analyzer for spurious measurement as follows.
Center frequency: Searched spurious frequency
Sweep frequency: 0Hz
Resolution bandwidth: 10 kHz below 30 MHz, 100 kHz between 30 MHz and 1 GHz, 1 MHz above 1 GHz
Video bandwidth: Same as resolution bandwidth
Y-axis scale: 10dB/Div
Input level: Set the amplitude of the carrier wave near the maximum in the linear region of the mixer.
Sweep time: Minimum time for guaranteed measurement accuracy
Number of data points: 400 or more data points
Sweep mode: Single sweep
Detection mode: sample
- Spurious Emission
- (1) Set the spectrum analyzer as follows when searching.
Sweep frequency width: 30MHz to 5 times the carrier frequency
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: positive peak
 - (2) Set the spectrum analyzer for secondary emission measurement as follows.
Center frequency: Secondary emission frequency
Sweep frequency width: 0Hz
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: sample

5.4.6 Test Results

Result: **PASS**

For the measurement records, refer to the appendix A-F.

5.5 Antenna Power Measurement

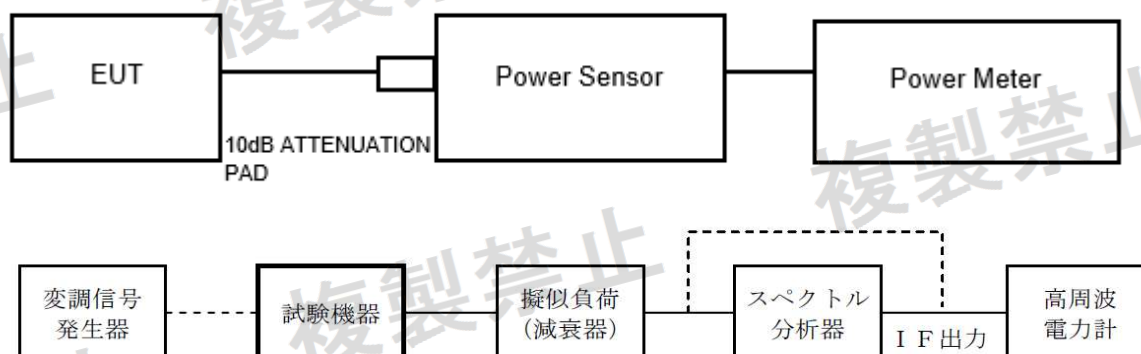
5.5.1 Limits of Antenna Power

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max)	
			Omni-directional case	Directional case
FHSS	2,400 – 2,4835 MHz	3mW/MHz	--	--
DS.OFDM (Narrow-Band)	2,400 – 2,4835 MHz	10mW/MHz	12.14 dBm/MHz (16.367 mW/MHz)	22.14 dBm/MHz (163.682 mW/MHz)
OFDM (Wide-Band)	2,400 – 2,4835 MHz	5mW/MHz	9.13dBm/MHz (8.185mW/MHz)	19.13dBm/MHz (81.846mW/MHz)
DTS	2,400 – 2,4835 MHz	10mW	12.14 dBm (16.367 mW)	22.14 dBm (163.682 mW)

Tolerance of antenna power shall be +20% (upper value).

According article 49.20 f(2) The angular width of the principal radiation in the horizontal and vertical planes of the transmitting antenna shall not exceed the value obtained by the following expression. $360/A$ degree
A represents the value determined by dividing an equivalent isotropically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dB, and shall be 1 when it is lower than 1.

5.5.2 Test Setup



Note: A high-frequency power meter is directly connected to the output of a dummy load (attenuator) when measuring the total power of a system other than the orthogonal frequency division multiplexing system or the spread spectrum system using direct spreading.

5.5.3 Condition of Measuring Instrument

- (1) Measure the equivalent noise bandwidth at the resolution bandwidth of 1 MHz of the spectrum analyzer, correct the bandwidth to the 1 MHz equivalent bandwidth, and read the displayed value. However, when the spread bandwidth is 1 MHz or less, correction shall be performed only when "spread bandwidth (MHz)/equivalent noise bandwidth (MHz)" exceeds 1.
- (2) The attenuation of the dummy load (attenuator) shall be the value that gives the optimum operating input level to the spectrum analyzer.
- (3) Set the spectrum analyzer as follows when searching for the frequency that gives the maximum antenna power.

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Center frequency:	Test frequency
Sweep frequency width:	About twice the occupied frequency bandwidth
Resolution bandwidth:	1MHz
Video bandwidth:	About three times the resolution bandwidth
Sweep time:	Minimum time for guaranteed measurement accuracy
(In the case of burst waves, the time at which one or more bursts are included per sample)	
Trigger condition:	Free run
Sweep mode:	Continuous sweep
Detection mode:	positive peak
Display mode:	Max hold

- (4) Set the spectrum analyzer as follows when measuring the antenna power.
- | | |
|------------------------|---|
| Center frequency | The frequency that gives the maximum power (searched frequency) |
| Sweep frequency width: | 0Hz |
| Resolution bandwidth: | 1MHz |
| Video bandwidth : | Same as resolution bandwidth |
| Sweep mode: | Continuous sweep |

5.5.4 Condition of Test Equipment

- (1) Set to the test frequency and enter the continuous transmission state or continuous burst transmission state.
- (2) If a spread code is used, set it to the test spread code and modulate it with the standard coded test signal.
- (3) If the orthogonal frequency division multiplexing system is used, it shall be in a burst transmission state and in a modulation state in which the proportion of time in which the number of subcarriers is the smallest is maximized. At this time, it is performed within a range that can occur continuously in the actual operation. However, when the modulation cannot be set, it can be performed in continuous burst transmission state or continuous transmission state.

5.5.5 Measurement Procedure

(1) Those using frequency hopping method (including DSSS or composite method with OFDM)

- a. Confirming in the submitted document that the frequency hopping intervals in the frequency distribution of frequency hopping are equal intervals of 1 MHz or less, and that the probability of occurrence at each hopping frequency is uniform, and that the probability of occurrence at each hopping frequency is uniform. If it is, it is implemented by the following method.
 - (a) Connect a high frequency power meter to the output of the dummy load (attenuator) and measure the total power.
 - (b) Divide the total power by the spreading bandwidth to calculate the average power per 1 MHz.
 - (c) Antenna power shall be as follows.
 - A Value of (b) for continuous wave
 - B For burst wave Average power in burst is calculated from the value of (b) and the transmission time rate.
- b. If the frequency distribution of frequency hopping or the probability of occurrence at each hopping frequency is not uniform, set the spectrum analyzer as in 2(3) to search for the frequency that gives the maximum antenna power, and then perform spectrum analysis. Set the device as in 2(4), and measure the antenna power at the frequency that gives the maximum power.

(2) In the case of those using OFDM or DSSS

- a. Set the spectrum analyzer as in 2(3).
- b. After repeating the sweep until no change is observed in the display, measure the frequency at which the power per 1 MHz gives the maximum value.
- c. Set the spectrum analyzer as in 2(4).
- d. Connect the high frequency power meter to the IF output terminal of the spectrum analyzer.
- e. Antenna power shall be as follows.
 - (a) For continuous wave: The value corrected by 2(1) from the indication of the high-frequency power meter

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- (b) Burst wave: Calculated average power in a burst from values corrected in the same way as for continuous waves and the transmission time rate
- f. In the case of using the orthogonal frequency division multiplexing system, when there are multiple subcarrier modulation systems, measure the antenna power at each time and take the largest value as the measured value.

(3) In the case of items using other methods

- (a) Connect a high-frequency power meter to the output of the dummy load (attenuator) and measure the total power.
- (b) Antenna power shall be as follows.
- a. Value of a for continuous wave
- b. Burst wave The average power in the burst is calculated from the value of (a) and the transmission time rate.

5.5.6 Test Results

Result: PASS

For the measurement records, refer to the appendix A-F.

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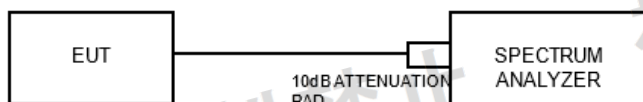
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5.6 Spurious Emissions for Receiver

5.6.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

5.6.2 Test Setup



5.6.3 Measurement Procedure

(1) Set the spectrum analyzer as follows when searching.

Sweep frequency width: 30MHz to 5 times the carrier frequency

Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz

Video bandwidth: Same as resolution bandwidth

Sweep time: Minimum time for guaranteed measurement accuracy

Sweep mode: Single sweep

Detection mode: positive peak

(2) Set the spectrum analyzer for secondary emission measurement as follows.

Center frequency: Secondary emission frequency

Sweep frequency width: 0Hz

Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz

Video bandwidth: Same as resolution bandwidth

Sweep time: Minimum time for guaranteed measurement accuracy

Sweep mode: Single sweep

Detection mode: sample

5.6.4 Test Results

Result: **PASS**

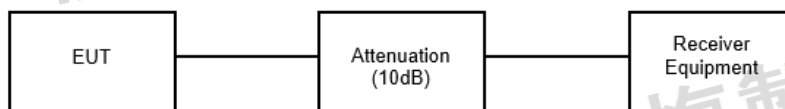
For the measurement records, refer to the appendix A-F.

5.7 Interference Prevention Function

5.7.1 Limits of Interference Prevention Function

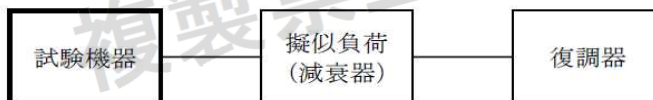
N/A

5.7.2 Test Setup

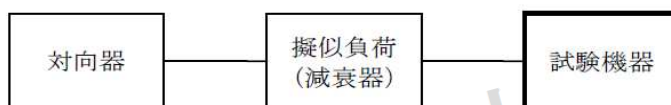


Measurement system diagram

(1) When sending an identification code



(2) When receiving an identification code



5.7.3 Condition of Measuring Instrument

- (1) The demodulator shall be able to demodulate the transmission signal sent by EUT and display the content of the identification code.
- (2) The counterpart device shall be capable of transmitting the same identification code as the transmission signal transmitted by EUT.
- (3) Condition of test equipment
Normal use condition.

5.7.4 Measurement procedure

- (1) When EUT has a function to automatically transmit an identification code
 - a) Transmit the identification code specified in the Equipment Regulations from the test equipment.
 - b) Check the identification code sent by the demodulator.
- (2) When the test equipment has a function to automatically receive the identification code
 - a) Transmit the identification code specified in the Equipment Regulations from the counterpart device.
 - b) Confirm that communication is performed with the EUT using the dedicated jig.
 - c) Transmit a code different from the identification code specified in the Equipment Regulations from the counterpart device.
 - d) Confirm that EUT stops transmission or displays that the identification code is different.

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5.7.5 How to describe test results

(1) When EUT has a function to automatically transmit an identification code

If the code stipulated in the equipment rule and the demodulated code are the same, it is described as "passed", and if they are different, it is described as "failed".

(2) When the test equipment has a function to automatically receive the identification code

If the received code is the code stipulated in the equipment regulations, normal reception is performed, and if the code is different from the code stipulated in the equipment regulations, a message indicating that the code is different is displayed. "No" shall be entered in other case.

5.7.6 Test Results

Link Mode	Test Result
Bluetooth LE	PASS
2.4GHz Wi-Fi	PASS
2.4GHz SDR	PASS

EUT connected, MAC address as below:

Bluetooth: 9A:9C:1B:A1:CD:54

2.4GHz Wi-Fi: 9A:9C:1B:A1:CD:53

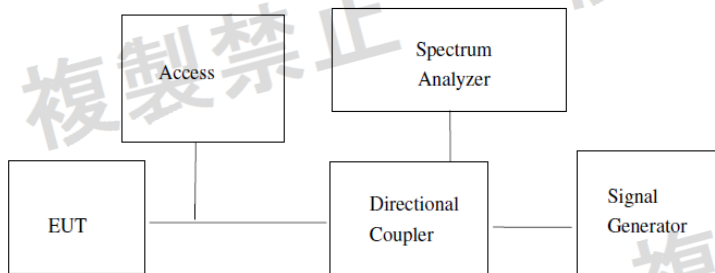
2.4GHz SDR: 65cdd4788032

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5.8 Carrier Sensing

5.8.1 Test Setup



5.8.2 Measurement procedure

- (a) Link EUT and Access Point to Directional Coupler input port.
 - (b) Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.
 - (c) A positive Peak Detector function in Spectrum Analyzer must be used.
 - (d) Set the Span to Zero.
- Press the Signal Generator on and it will output the Carrier Signal. When the Link breaks off, wait a minute and press the Signal Generator off. After a while, reset the Link and done the test.

5.8.3 Test Results

Result **PASS**

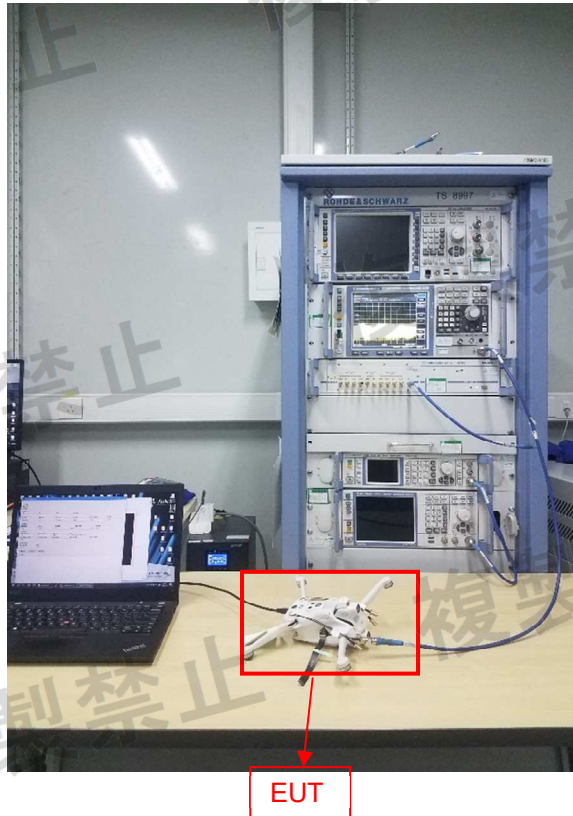
For the measurement records, refer to the appendix B, F.

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6 Photographs of the Test Set-Up

Photograph 1: Set-up for Radio Spectrum Testing



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**Appendix A.1: Test Results of Frequency Tolerance***Test Result*

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	-20.81599	±50	PASS
			2440	-27.66393	±50	PASS
			2480	-1.00807	±50	PASS
	BLE_2M	Ant1	2402	-11.44879	±50	PASS
			2440	22.54098	±50	PASS
			2480	-11.08871	±50	PASS
NTLV	BLE_1M	Ant1	2402	-3.12240	±50	PASS
			2440	-3.07377	±50	PASS
			2480	-7.05645	±50	PASS
	BLE_2M	Ant1	2402	-11.44879	±50	PASS
			2440	-15.36885	±50	PASS
			2480	-3.02419	±50	PASS
NTHV	BLE_1M	Ant1	2402	-16.65279	±50	PASS
			2440	-6.14754	±50	PASS
			2480	-5.04032	±50	PASS
	BLE_2M	Ant1	2402	-18.73439	±50	PASS
			2440	-48.15574	±50	PASS
			2480	3.02419	±50	PASS



Test Graphs

NTNV BLE 1M Ant1 2402



NTNV BLE 1M Ant1 2440



NTNV BLE 1M Ant1 2480



NTNV BLE 2M Ant1 2402



NTNV BLE 2M Ant1 2440



NTNV BLE 2M Ant1 2480



NTLV BLE 1M Ant1 2402



NTLV BLE 1M Ant1 2440



NTLV BLE 1M Ant1 2480



NTLV BLE 2M Ant1 2402



NTLV BLE 2M Ant1 2440

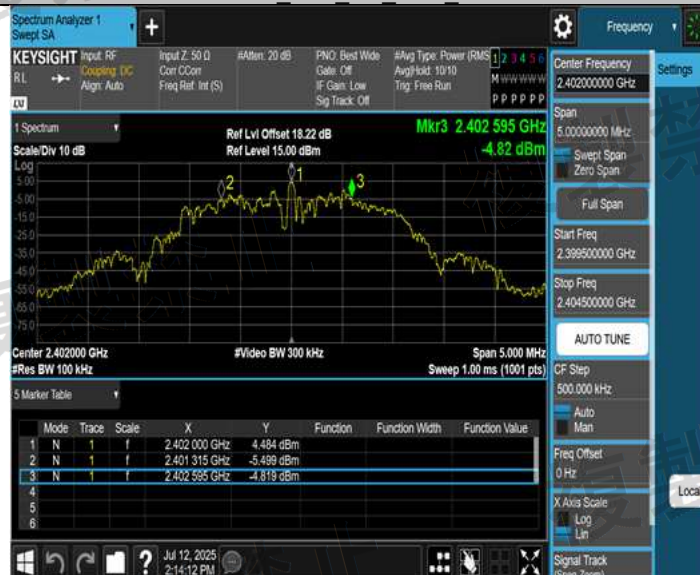


NTLV BLE 2M Ant1 2480





NTHV BLE 2M Ant1 2402



NTHV BLE 2M Ant1 2440



NTHV BLE 2M Ant1 2480



Appendix A.2: Test Results of Antenna Power

Test Result

Antenna Power							
TestCondition	TestMode	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	5.67	3.6898	≤10	PASS
			2440	5.49	3.5400	≤10	PASS
			2480	5.48	3.5318	≤10	PASS
	BLE_2M	Ant1	2402	5.66	3.6813	≤10	PASS
			2440	5.46	3.5156	≤10	PASS
			2480	5.45	3.5075	≤10	PASS
NTLV	BLE_1M	Ant1	2402	5.68	3.6983	≤10	PASS
			2440	5.49	3.5400	≤10	PASS
			2480	5.48	3.5318	≤10	PASS
	BLE_2M	Ant1	2402	5.65	3.6728	≤10	PASS
			2440	5.47	3.5237	≤10	PASS
			2480	5.45	3.5075	≤10	PASS
NTHV	BLE_1M	Ant1	2402	5.67	3.6898	≤10	PASS
			2440	5.49	3.5400	≤10	PASS
			2480	5.47	3.5237	≤10	PASS
	BLE_2M	Ant1	2402	5.65	3.6728	≤10	PASS
			2440	5.49	3.5400	≤10	PASS
			2480	5.46	3.5156	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	3.6898	10	-63.10	-80 to +20	PASS
			2440	3.5400	10	-64.60	-80 to +20	PASS
			2480	3.5318	10	-64.68	-80 to +20	PASS
	BLE_2M	Ant1	2402	3.6813	10	-63.19	-80 to +20	PASS
			2440	3.5156	10	-64.84	-80 to +20	PASS
			2480	3.5075	10	-64.92	-80 to +20	PASS
NTLV	BLE_1M	Ant1	2402	3.6983	10	-63.02	-80 to +20	PASS
			2440	3.5400	10	-64.60	-80 to +20	PASS
			2480	3.5318	10	-64.68	-80 to +20	PASS
	BLE_2M	Ant1	2402	3.6728	10	-63.27	-80 to +20	PASS
			2440	3.5237	10	-64.76	-80 to +20	PASS
			2480	3.5075	10	-64.92	-80 to +20	PASS
NTHV	BLE_1M	Ant1	2402	3.6898	10	-63.10	-80 to +20	PASS
			2440	3.5400	10	-64.60	-80 to +20	PASS
			2480	3.5237	10	-64.76	-80 to +20	PASS
	BLE_2M	Ant1	2402	3.6728	10	-63.27	-80 to +20	PASS
			2440	3.5400	10	-64.60	-80 to +20	PASS
			2480	3.5156	10	-64.84	-80 to +20	PASS

EIRP							
TestCondition	TestMode	Antenna	Freq(MHz)	Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	5.67	6.73	≤12.14	PASS
			2440	5.49	6.55	≤12.14	PASS
			2480	5.48	6.54	≤12.14	PASS
	BLE_2M	Ant1	2402	5.66	6.72	≤12.14	PASS
			2440	5.46	6.52	≤12.14	PASS
			2480	5.45	6.51	≤12.14	PASS
NTLV	BLE_1M	Ant1	2402	5.68	6.74	≤12.14	PASS
			2440	5.49	6.55	≤12.14	PASS
			2480	5.48	6.54	≤12.14	PASS



	BLE_2M	Ant1	2402	5.65	6.71	≤12.14	PASS
			2440	5.47	6.53	≤12.14	PASS
			2480	5.45	6.51	≤12.14	PASS
NTHV	BLE_1M	Ant1	2402	5.67	6.73	≤12.14	PASS
			2440	5.49	6.55	≤12.14	PASS
			2480	5.47	6.53	≤12.14	PASS
	BLE_2M	Ant1	2402	5.65	6.71	≤12.14	PASS
			2440	5.49	6.55	≤12.14	PASS
			2480	5.46	6.52	≤12.14	PASS



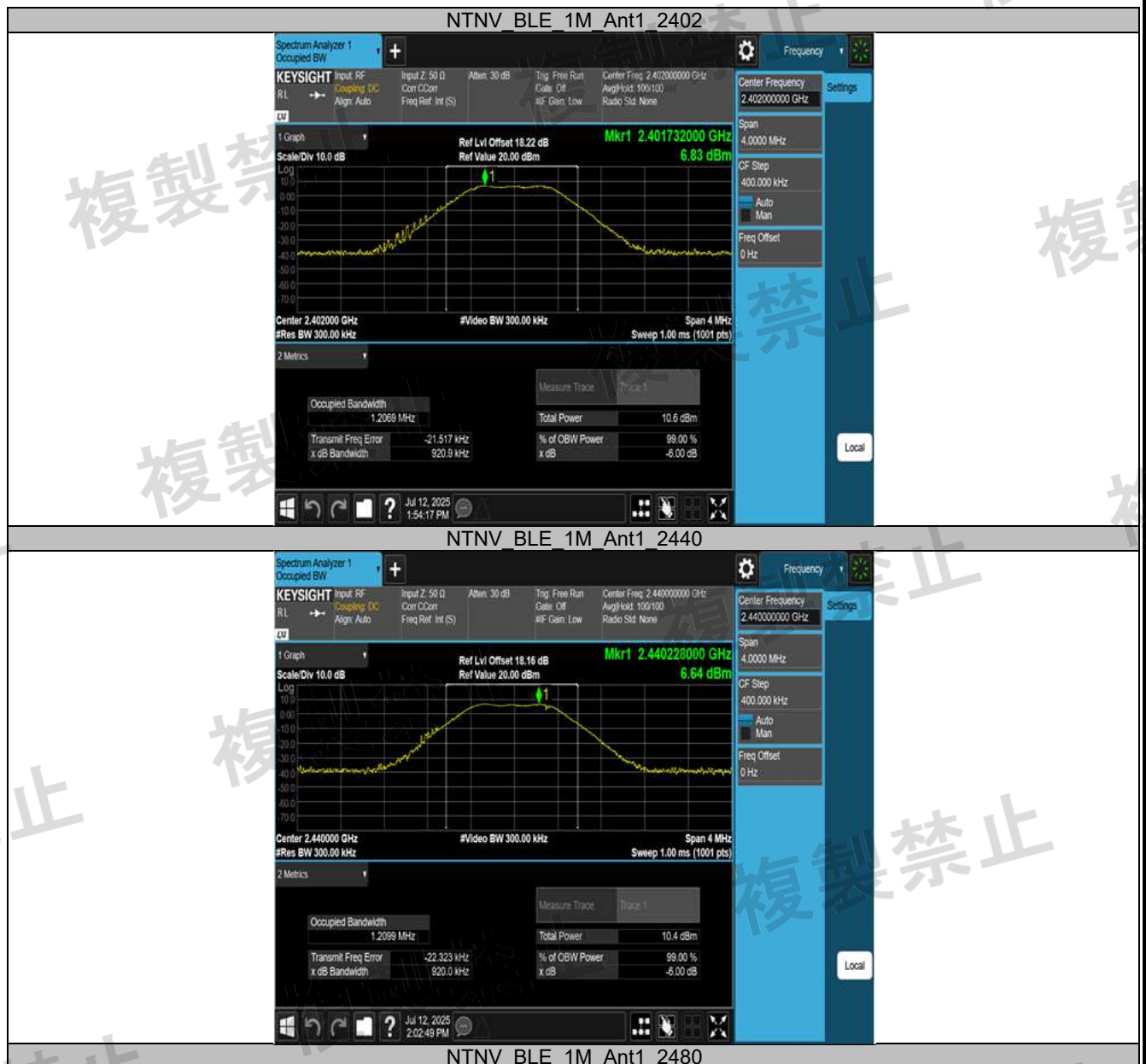
Appendix A.3: Test Results of Occupied Channel Bandwidth (99%)

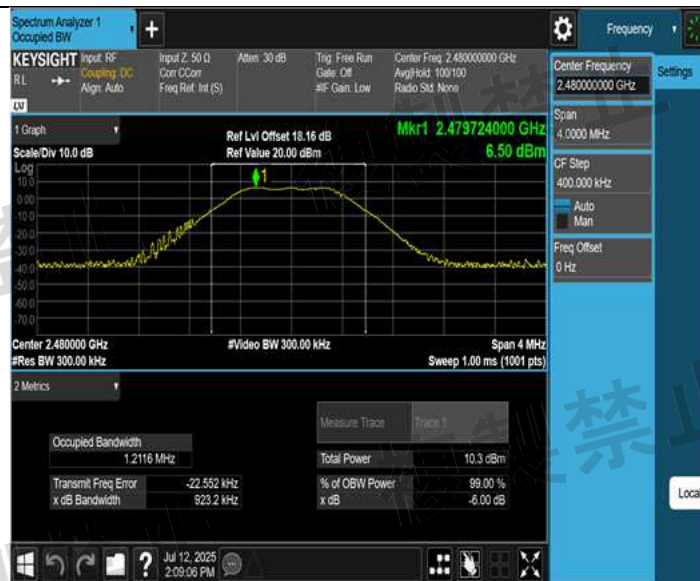
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.207	≤26	PASS
			2440	1.210	≤26	PASS
			2480	1.212	≤26	PASS
	BLE_2M	Ant1	2402	2.127	≤26	PASS
			2440	2.118	≤26	PASS
			2480	2.122	≤26	PASS
NTLV	BLE_1M	Ant1	2402	1.212	≤26	PASS
			2440	1.208	≤26	PASS
			2480	1.211	≤26	PASS
	BLE_2M	Ant1	2402	2.122	≤26	PASS
			2440	2.119	≤26	PASS
			2480	2.132	≤26	PASS
NTHV	BLE_1M	Ant1	2402	1.207	≤26	PASS
			2440	1.206	≤26	PASS
			2480	1.207	≤26	PASS
	BLE_2M	Ant1	2402	2.128	≤26	PASS
			2440	2.122	≤26	PASS
			2480	2.132	≤26	PASS



Test Graphs





NTNV_BLE_2M_Ant1_2402



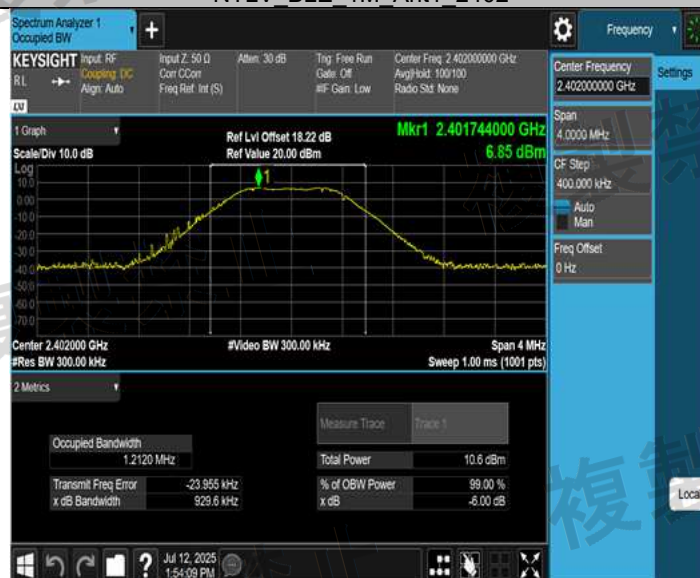
NTNV_BLE_2M_Ant1_2440



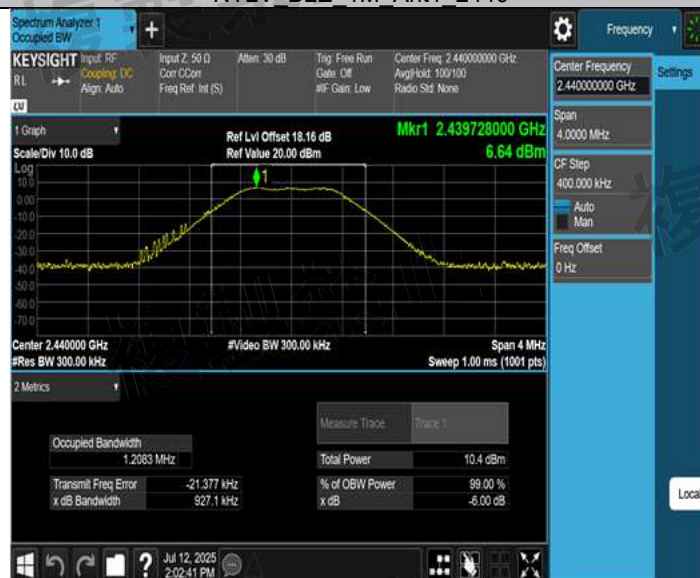
NTNV_BLE_2M_Ant1_2480



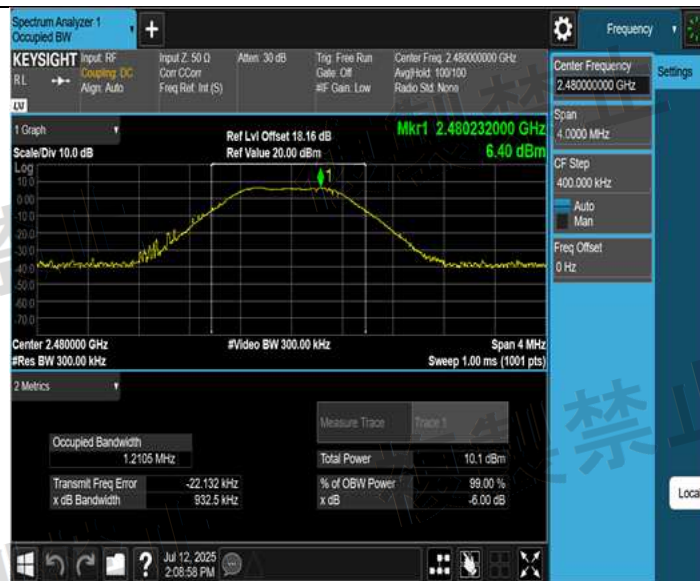
NTLV_BLE_1M_Ant1_2402



NTLV_BLE_1M_Ant1_2440



NTLV_BLE_1M_Ant1_2480



NTLV_BLE_2M_Ant1_2402



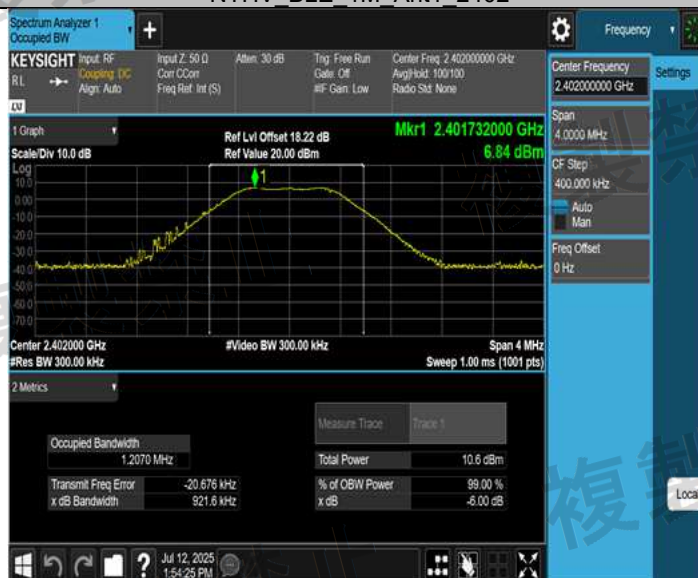
NTLV_BLE_2M_Ant1_2440



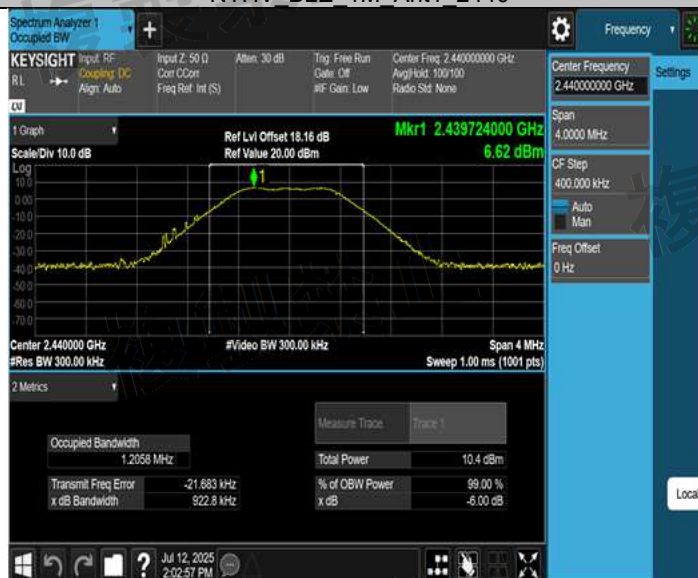
NTLV_BLE_2M_Ant1_2480



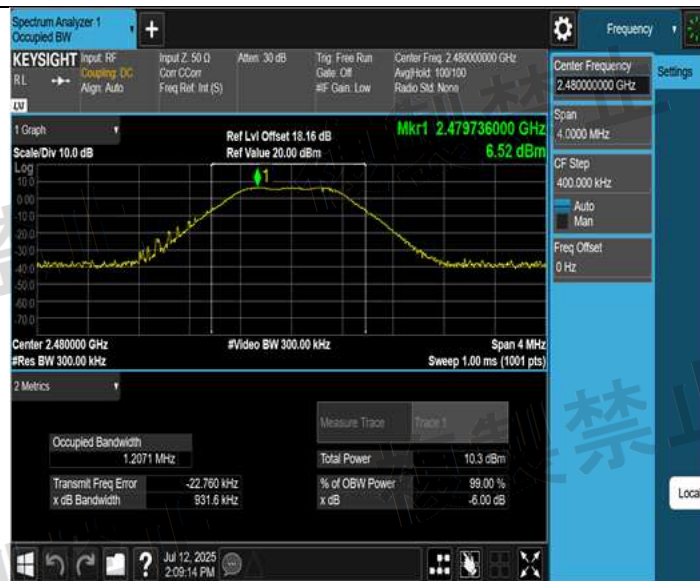
NTHV_BLE_1M_Ant1_2402



NTHV_BLE_1M_Ant1_2440



NTHV_BLE_1M_Ant1_2480



NTHV_BLE_2M_Ant1_2402



NTHV_BLE_2M_Ant1_2440



NTHV_BLE_2M_Ant1_2480

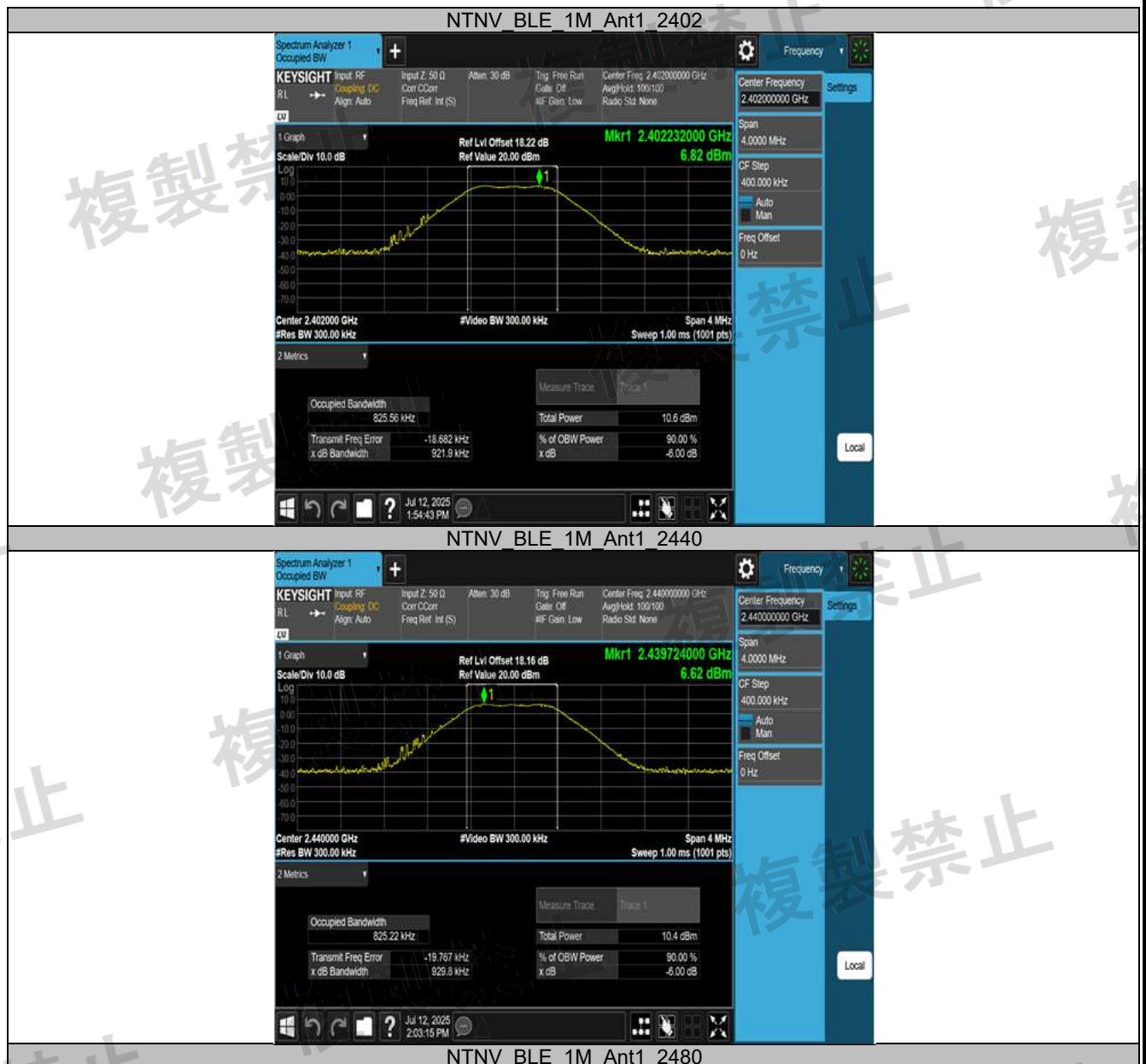


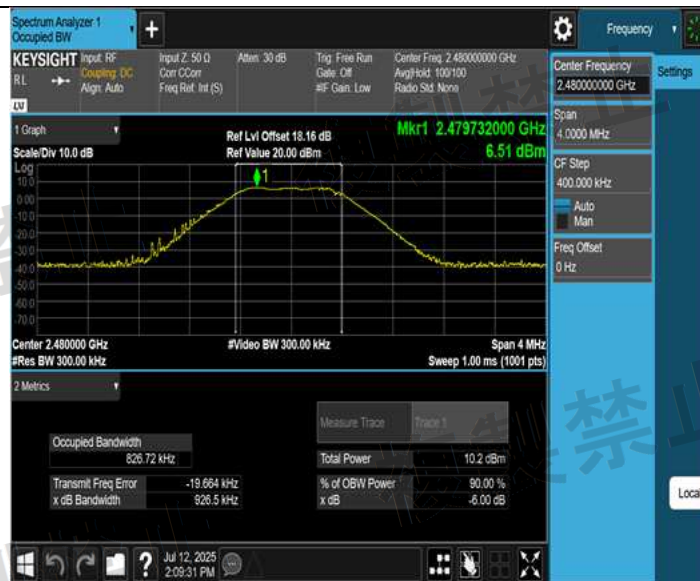
**Appendix A.4: Test Results of Spread Bandwidth (90%)***Test Result*

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.826	≥0.5	PASS
			2440	0.825	≥0.5	PASS
			2480	0.827	≥0.5	PASS
	BLE_2M	Ant1	2402	1.368	≥0.5	PASS
			2440	1.369	≥0.5	PASS
			2480	1.374	≥0.5	PASS
NTLV	BLE_1M	Ant1	2402	0.821	≥0.5	PASS
			2440	0.825	≥0.5	PASS
			2480	0.824	≥0.5	PASS
	BLE_2M	Ant1	2402	1.367	≥0.5	PASS
			2440	1.372	≥0.5	PASS
			2480	1.380	≥0.5	PASS
NTHV	BLE_1M	Ant1	2402	0.825	≥0.5	PASS
			2440	0.821	≥0.5	PASS
			2480	0.824	≥0.5	PASS
	BLE_2M	Ant1	2402	1.369	≥0.5	PASS
			2440	1.380	≥0.5	PASS
			2480	1.379	≥0.5	PASS



Test Graphs





NTNV BLE 2M Ant1 2402



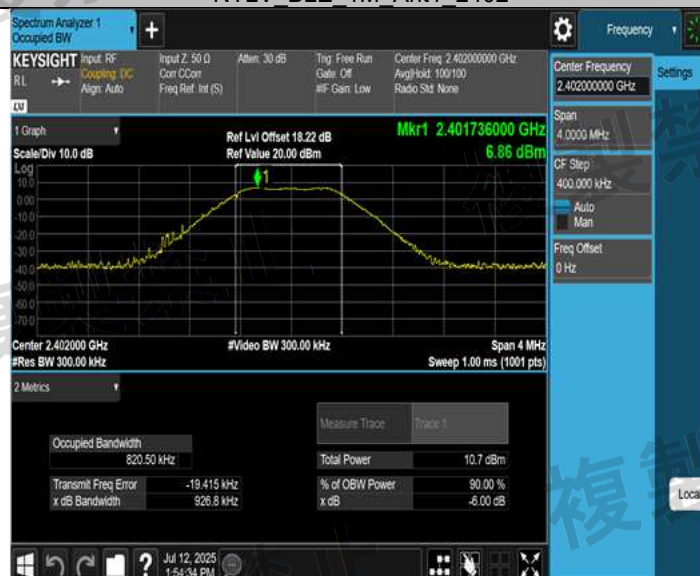
NTNV BLE 2M Ant1 2440



NTNV BLE 2M Ant1 2480



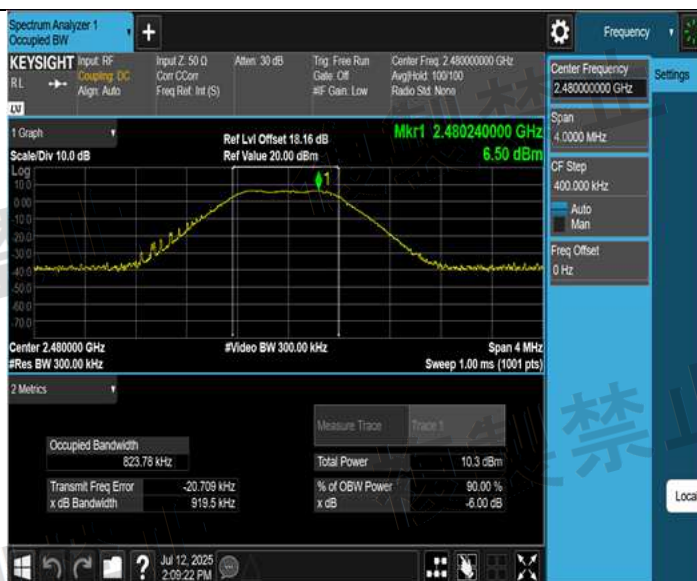
NTLV_BLE_1M_Ant1_2402



NTLV_BLE_1M_Ant1_2440



NTLV_BLE_1M_Ant1_2480



NTLV BLE 2M Ant1 2402



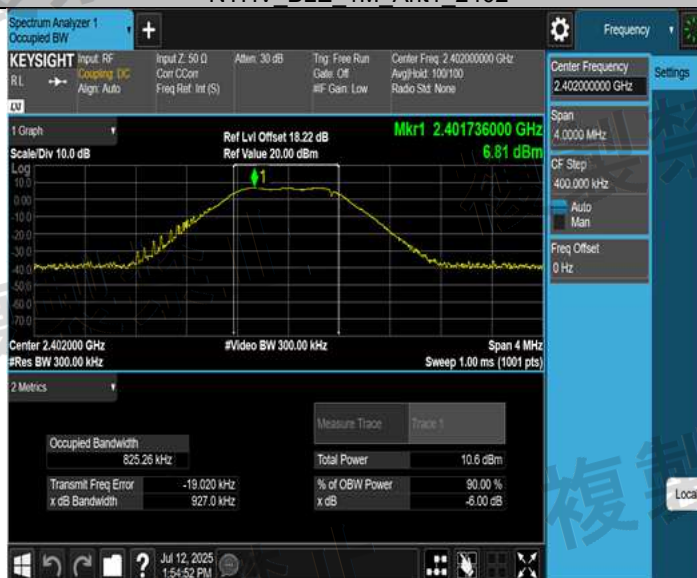
NTLV BLE 2M Ant1 2440



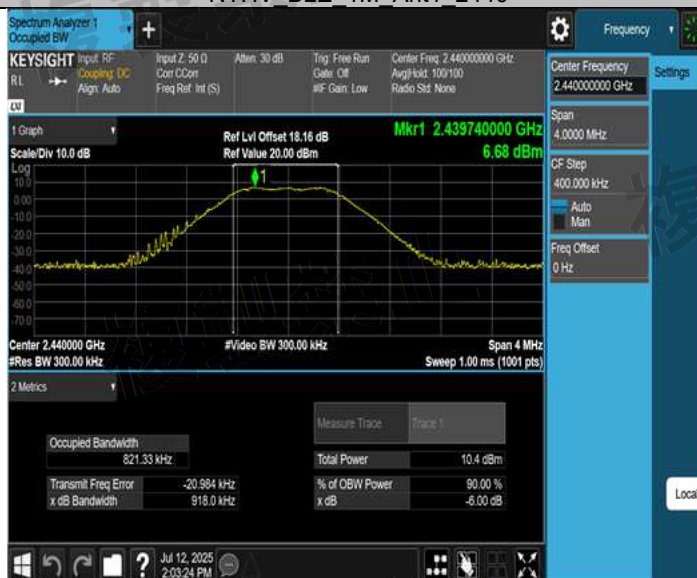
NTLV BLE 2M Ant1 2480



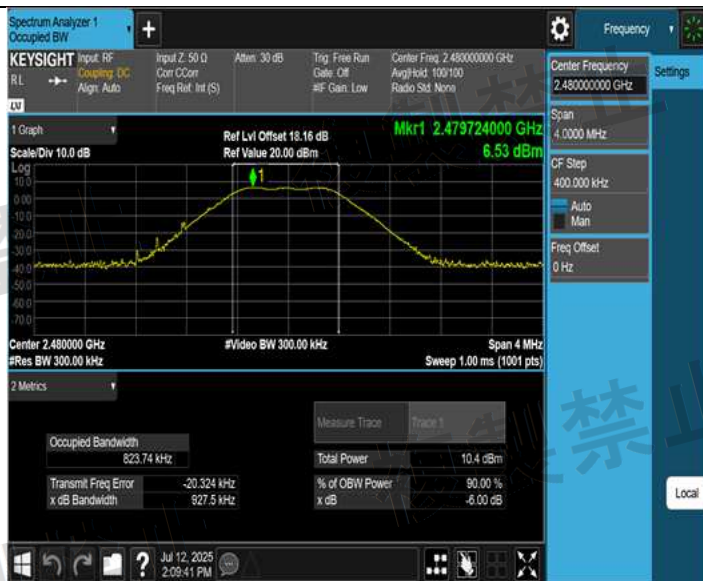
NTHV_BLE_1M_Ant1_2402



NTHV_BLE_1M_Ant1_2440



NTHV_BLE_1M_Ant1_2480



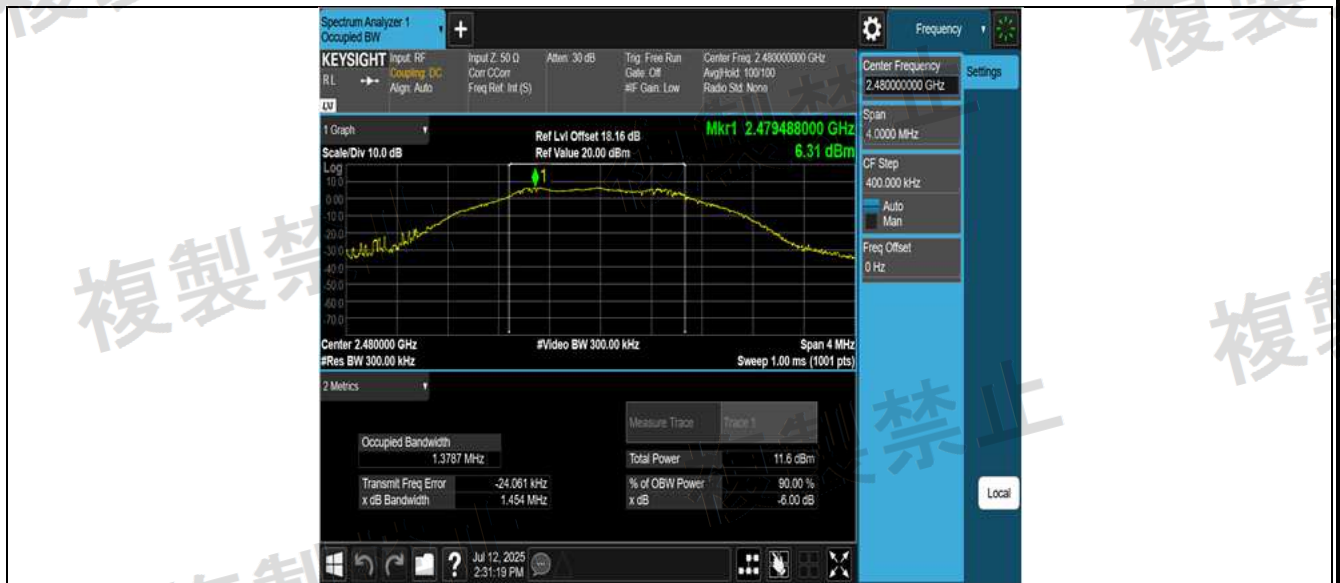
NTHV_BLE_2M_Ant1_2402



NTHV_BLE_2M_Ant1_2440



NTHV_BLE_2M_Ant1_2480



Appendix A.5: Test Results of Spurious Emissions for Transmitter

Test Result

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~500	155.96	-49.43	≤-26	0.01140	≤2.5	PASS
				500~1000	878.25	-48.87	≤-26	0.01297	≤2.5	PASS
				1000~2387	2344.70	-46.90	≤-26	0.02042	≤2.5	PASS
				2387~2400	2400.00	-26.33	≤-16	2.32809	≤25	PASS
				2483.5~2496.5	2489.80	-33.93	≤-16	0.40458	≤25	PASS
				2496.5~13000	3838.32	-43.22	≤-26	0.04764	≤2.5	PASS
			2440	30~500	477.44	-49.53	≤-26	0.01114	≤2.5	PASS
				500~1000	868.25	-49.02	≤-26	0.01253	≤2.5	PASS
				1000~2387	2345.39	-46.64	≤-26	0.02168	≤2.5	PASS
				2387~2400	2395.35	-35.23	≤-16	0.29992	≤25	PASS
				2483.5~2496.5	2495.98	-34.74	≤-16	0.33574	≤25	PASS
				2496.5~13000	3847.78	-42.95	≤-26	0.05070	≤2.5	PASS
			2480	30~500	452.65	-49.24	≤-26	0.01191	≤2.5	PASS
				500~1000	831.13	-47.95	≤-26	0.01603	≤2.5	PASS
				1000~2387	2277.43	-45.83	≤-26	0.02612	≤2.5	PASS
				2387~2400	2392.53	-34.41	≤-16	0.36224	≤25	PASS
				2483.5~2496.5	2496.16	-34.58	≤-16	0.34834	≤25	PASS
				2496.5~13000	3753.77	-43.26	≤-26	0.04721	≤2.5	PASS
	BLE_2M	Ant1	2402	30~500	484.26	-49.56	≤-26	0.01107	≤2.5	PASS
				500~1000	860.75	-48.37	≤-26	0.01455	≤2.5	PASS
				1000~2387	2238.94	-46.31	≤-26	0.02339	≤2.5	PASS
				2387~2400	2400	-11.52	≤-16	70.46931	≤25	See table below
				2483.5~2496.5	2488.52	-35.20	≤-16	0.30200	≤25	PASS
				2496.5~13000	3815.74	-42.07	≤-26	0.06209	≤2.5	PASS
			2440	30~500	484.26	-50.01	≤-26	0.00998	≤2.5	PASS
				500~1000	830.25	-48.69	≤-26	0.01352	≤2.5	PASS
				1000~2387	2372.09	-47.22	≤-26	0.01897	≤2.5	PASS
				2387~2400	2395.98	-35.21	≤-16	0.30130	≤25	PASS
				2483.5~2496.5	2495.78	-34.91	≤-16	0.32285	≤25	PASS
				2496.5~13000	3812.06	-43.43	≤-26	0.04539	≤2.5	PASS
			2480	30~500	448.65	-49.47	≤-26	0.01130	≤2.5	PASS
				500~1000	682.38	-49.02	≤-26	0.01253	≤2.5	PASS
				1000~2387	2276.04	-46.56	≤-26	0.02208	≤2.5	PASS
				2387~2400	2398.57	-35.23	≤-16	0.29992	≤25	PASS
				2483.5~2496.5	2484.33	-33.11	≤-16	0.48865	≤25	PASS
				2496.5~13000	3635.60	-42.64	≤-26	0.05445	≤2.5	PASS
NTLV	BLE_1M	Ant1	2402	30~500	243.03	-48.94	≤-26	0.01276	≤2.5	PASS
				500~1000	955.38	-48.79	≤-26	0.01321	≤2.5	PASS
				1000~2387	2366.54	-47.03	≤-26	0.01982	≤2.5	PASS
				2387~2400	2399.99	-26.74	≤-16	2.11836	≤25	PASS
				2483.5~2496.5	2487.64	-34.73	≤-16	0.33651	≤25	PASS
				2496.5~13000	3847.25	-42.87	≤-26	0.05164	≤2.5	PASS
			2440	30~500	465.46	-49.38	≤-26	0.01153	≤2.5	PASS
				500~1000	825.50	-49.39	≤-26	0.01151	≤2.5	PASS
				1000~2387	2346.43	-46.67	≤-26	0.02153	≤2.5	PASS
				2387~2400	2390.01	-35.17	≤-16	0.30409	≤25	PASS
				2483.5~2496.5	2491.84	-34.91	≤-16	0.32285	≤25	PASS
				2496.5~13000	3760.07	-42.07	≤-26	0.06209	≤2.5	PASS
			2480	30~500	454.65	-49.09	≤-26	0.01233	≤2.5	PASS
				500~1000	873.00	-48.84	≤-26	0.01306	≤2.5	PASS
				1000~2387	2362.38	-46.59	≤-26	0.02193	≤2.5	PASS
				2387~2400	2396.84	-34.96	≤-16	0.31915	≤25	PASS
				2483.5~2496.5	2484.01	-34.19	≤-16	0.38107	≤25	PASS
				2496.5~13000	3830.44	-42.77	≤-26	0.05284	≤2.5	PASS

Appendix A



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BLE_2M	Ant1	2402	30~500	458.76	-49.32	≤-26	0.01169	≤2.5	PASS
			500~1000	846.00	-48.96	≤-26	0.01271	≤2.5	PASS
			1000~2387	2310.37	-46.58	≤-26	0.02198	≤2.5	PASS
			2387~2400	2400	-11.60	≤-16	69.18310	≤25	See table below
			2483.5~2496.5	2490.40	-35.09	≤-16	0.30974	≤25	PASS
			2496.5~13000	3781.60	-42.77	≤-26	0.05284	≤2.5	PASS
		2440	30~500	417.52	-49.59	≤-26	0.01099	≤2.5	PASS
			500~1000	912.88	-49.26	≤-26	0.01186	≤2.5	PASS
			1000~2387	2382.49	-47.05	≤-26	0.01972	≤2.5	PASS
			2387~2400	2388.53	-34.65	≤-16	0.34277	≤25	PASS
			2483.5~2496.5	2488.77	-34.69	≤-16	0.33963	≤25	PASS
			2496.5~13000	3866.16	-43.01	≤-26	0.05000	≤2.5	PASS
		2480	30~500	429.62	-49.93	≤-26	0.01016	≤2.5	PASS
			500~1000	866.38	-48.35	≤-26	0.01462	≤2.5	PASS
			1000~2387	2364.46	-46.66	≤-26	0.02158	≤2.5	PASS
			2387~2400	2395.43	-34.84	≤-16	0.32810	≤25	PASS
			2483.5~2496.5	2488.55	-33.26	≤-16	0.47206	≤25	PASS
			2496.5~13000	3845.15	-43.50	≤-26	0.04467	≤2.5	PASS
NTHV	BLE_1M	2402	30~500	420.34	-49.88	≤-26	0.01028	≤2.5	PASS
			500~1000	916.13	-48.57	≤-26	0.01390	≤2.5	PASS
			1000~2387	2370.70	-46.27	≤-26	0.02360	≤2.5	PASS
			2387~2400	2400.00	-26.07	≤-16	2.47172	≤25	PASS
			2483.5~2496.5	2490.51	-34.18	≤-16	0.38194	≤25	PASS
			2496.5~13000	3889.26	-43.23	≤-26	0.04753	≤2.5	PASS
		2440	30~500	465.81	-50.08	≤-26	0.00982	≤2.5	PASS
			500~1000	852.25	-48.40	≤-26	0.01445	≤2.5	PASS
			1000~2387	2372.09	-46.07	≤-26	0.02472	≤2.5	PASS
			2387~2400	2387.60	-35.51	≤-16	0.28119	≤25	PASS
			2483.5~2496.5	2487.25	-35.12	≤-16	0.30761	≤25	PASS
			2496.5~13000	3896.62	-43.36	≤-26	0.04613	≤2.5	PASS
		2480	30~500	392.84	-49.51	≤-26	0.01119	≤2.5	PASS
			500~1000	851.75	-49.01	≤-26	0.01256	≤2.5	PASS
			1000~2387	2230.62	-47.09	≤-26	0.01954	≤2.5	PASS
			2387~2400	2393.55	-35.35	≤-16	0.29174	≤25	PASS
			2483.5~2496.5	2489.52	-34.68	≤-16	0.34041	≤25	PASS
			2496.5~13000	3885.59	-43.55	≤-26	0.04416	≤2.5	PASS
	BLE_2M	2402	30~500	463.11	-49.54	≤-26	0.01112	≤2.5	PASS
			500~1000	960.88	-48.69	≤-26	0.01352	≤2.5	PASS
			1000~2387	2325.28	-46.98	≤-26	0.02004	≤2.5	PASS
			2387~2400	2400	-11.61	≤-16	69.02398	≤25	See table below
			2483.5~2496.5	2496.05	-33.94	≤-16	0.40365	≤25	PASS
			2496.5~13000	3724.36	-43.45	≤-26	0.04519	≤2.5	PASS
		2440	30~500	427.39	-49.76	≤-26	0.01057	≤2.5	PASS
			500~1000	866.00	-48.83	≤-26	0.01309	≤2.5	PASS
			1000~2387	2373.48	-46.64	≤-26	0.02168	≤2.5	PASS
			2387~2400	2387.38	-34.98	≤-16	0.31769	≤25	PASS
			2483.5~2496.5	2495.01	-34.99	≤-16	0.31696	≤25	PASS
			2496.5~13000	3898.19	-43.67	≤-26	0.04295	≤2.5	PASS
		2480	30~500	498.24	-49.50	≤-26	0.01122	≤2.5	PASS
			500~1000	706.25	-49.07	≤-26	0.01239	≤2.5	PASS
			1000~2387	2261.13	-46.78	≤-26	0.02099	≤2.5	PASS
			2387~2400	2393.38	-34.57	≤-16	0.34914	≤25	PASS
			2483.5~2496.5	2491.83	-34.10	≤-16	0.38905	≤25	PASS
			2496.5~13000	3795.26	-43.42	≤-26	0.04550	≤2.5	PASS

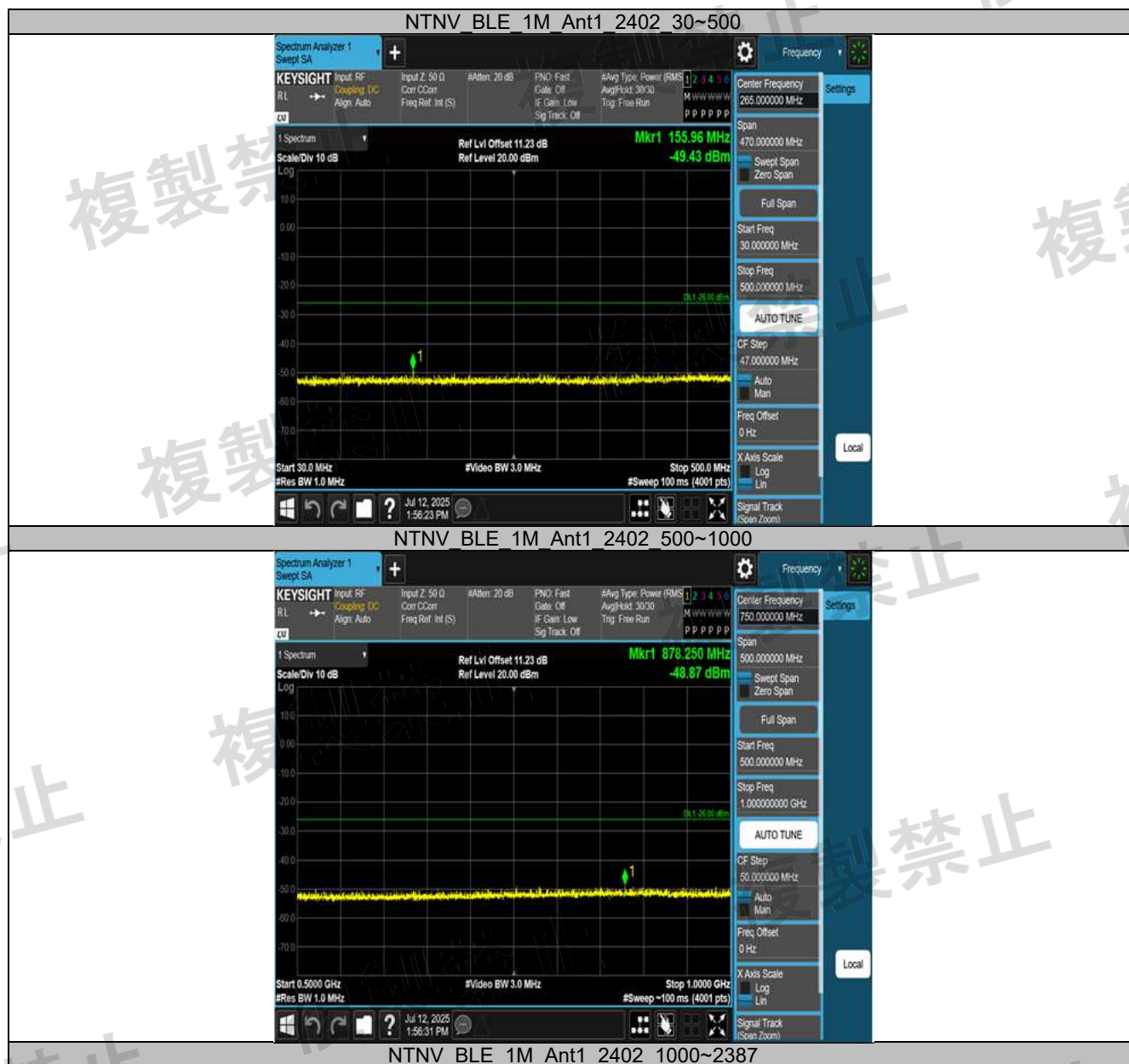


Test Result_Step2

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE 2M	Ant1	2402	2400.00	-24.70	≤-16	3.38844	≤25	PASS
NTLV	BLE 2M	Ant1	2402	2400.00	-24.68	≤-16	3.40408	≤25	PASS
NTHV	BLE 2M	Ant1	2402	2400.00	-24.70	≤-16	3.38844	≤25	PASS



Test Graphs



NTNV BLE 1M Ant1 2402 2496.5~13000



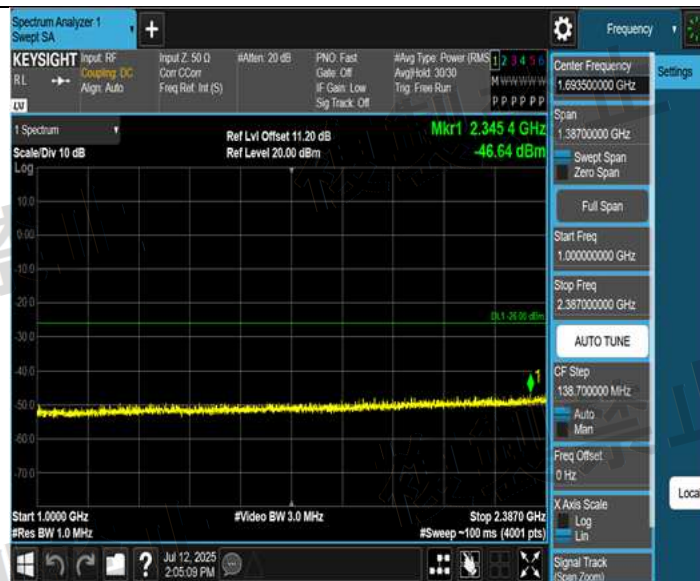
NTNV BLE 1M Ant1 2440 30~500



NTNV BLE 1M Ant1 2440 500~1000



NTNV BLE 1M Ant1 2440 1000~2387



NTNV BLE 1M Ant1 2440 2387~2400



NTNV BLE 1M Ant1 2440 2483.5~2496.5



NTNV BLE 1M Ant1 2440 2496.5~13000



NTNV BLE 1M Ant1 2480 30~500



NTNV BLE 1M Ant1 2480 500~1000



NTNV BLE 1M Ant1 2480 1000~2387



NTNV_BLE_1M_Ant1_2480_2387~2400



NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



NTNV_BLE_1M_Ant1_2480_2496.5~13000



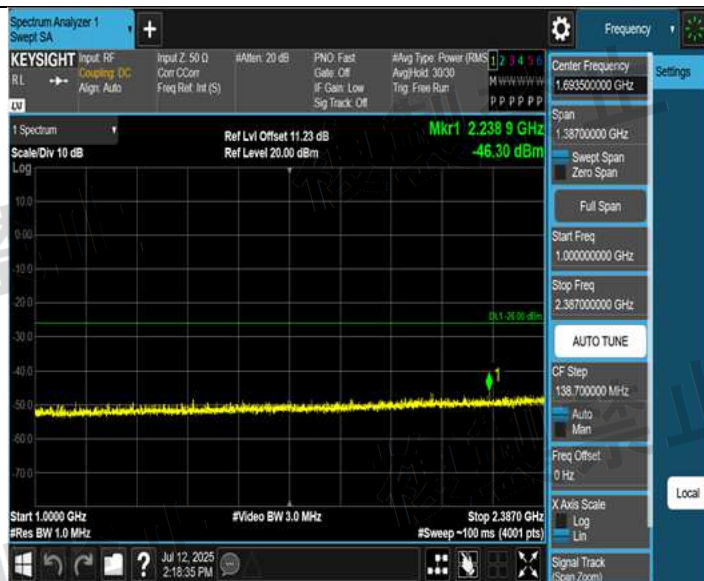
NTNV BLE 2M Ant1 2402 30~500



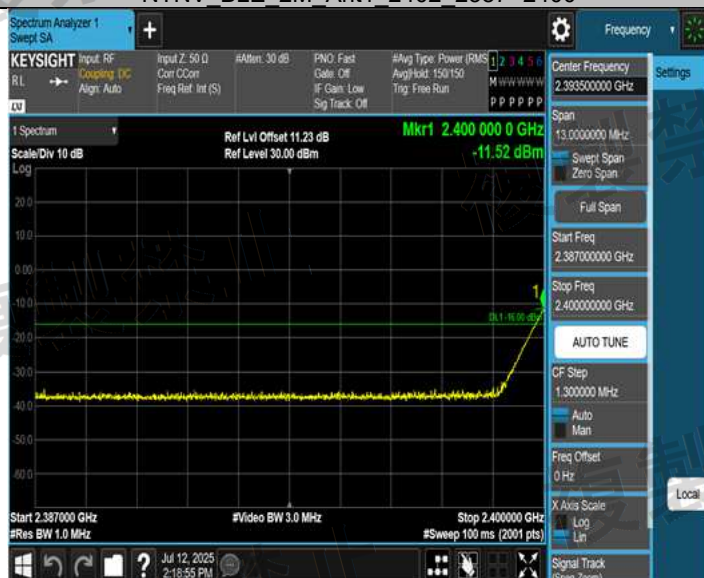
NTNV BLE 2M Ant1 2402 500~1000



NTNV BLE 2M Ant1 2402 1000~2387



NTNV BLE 2M Ant1 2402 2387~2400



NTNV BLE 2M Ant1 2402 2483.5~2496.5



NTNV BLE 2M Ant1 2402 2496.5~13000



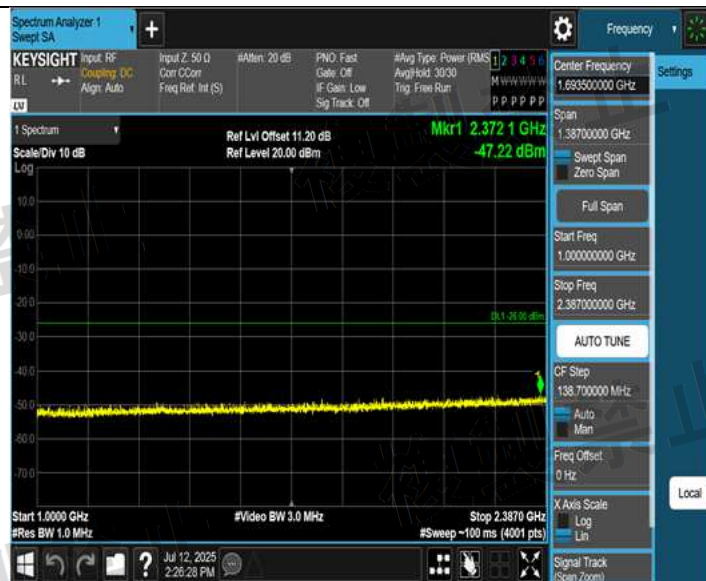
NTNV BLE 2M Ant1 2440 30~500



NTNV BLE 2M Ant1 2440 500~1000



NTNV BLE 2M Ant1 2440 1000~2387



NTNV BLE 2M Ant1 2440 2387~2400



NTNV BLE 2M Ant1 2440 2483.5~2496.5



NTNV BLE 2M Ant1 2440 2496.5~13000



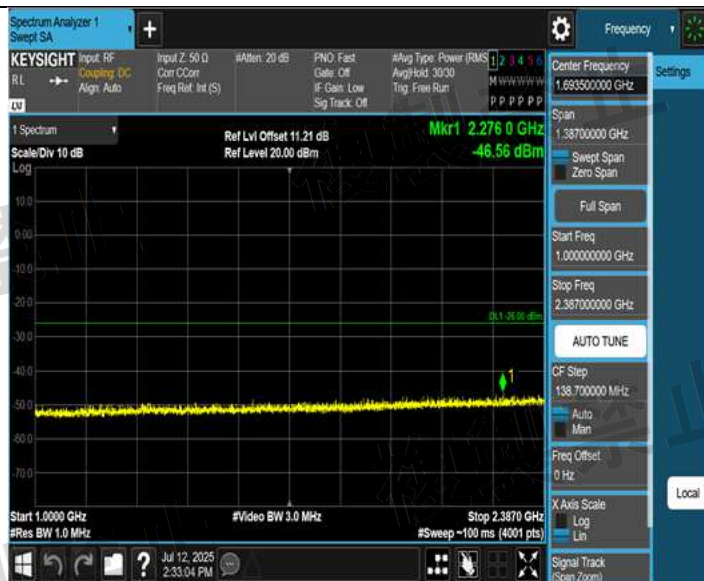
NTNV BLE 2M Ant1 2480 30~500



NTNV BLE 2M Ant1 2480 500~1000



NTNV BLE 2M Ant1 2480 1000~2387



NTNV BLE 2M Ant1 2480 2387~2400



NTNV BLE 2M Ant1 2480 2483.5~2496.5



NTNV BLE 2M Ant1 2480 2496.5~13000



NTLV BLE 1M Ant1 2402 30~500



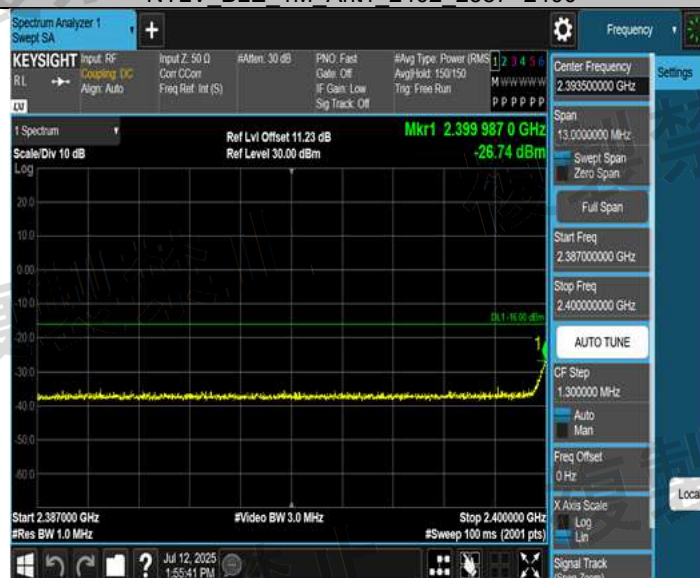
NTLV BLE 1M Ant1 2402 500~1000



NTLV BLE 1M Ant1 2402 1000~2387



NTLV BLE 1M Ant1 2402 2387~2400



NTLV BLE 1M Ant1 2402 2483.5~2496.5



NTLV BLE 1M Ant1 2402 2496.5~13000



NTLV BLE 1M Ant1 2440 30~500



NTLV BLE 1M Ant1 2440 500~1000



NTLV BLE 1M Ant1 2440 1000~2387



NTLV BLE 1M Ant1 2440 2387~2400



NTLV BLE 1M Ant1 2440 2483.5~2496.5



NTLV BLE 1M Ant1 2440 2496.5~13000



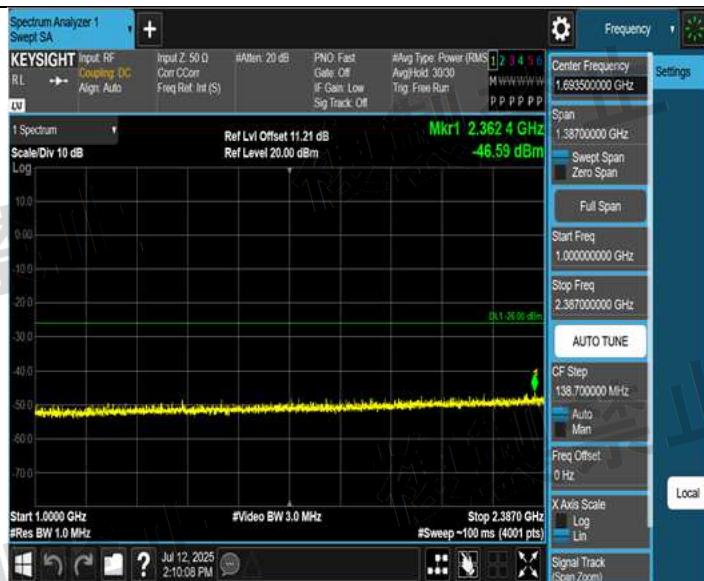
NTLV BLE 1M Ant1 2480 30~500



NTLV BLE 1M Ant1 2480 500~1000



NTLV BLE 1M Ant1 2480 1000~2387



NTLV BLE 1M Ant1 2480 2387~2400



NTLV BLE 1M Ant1 2480 2483.5~2496.5



NTLV BLE 1M Ant1 2480 2496.5~13000



NTLV BLE 2M Ant1 2402 30~500



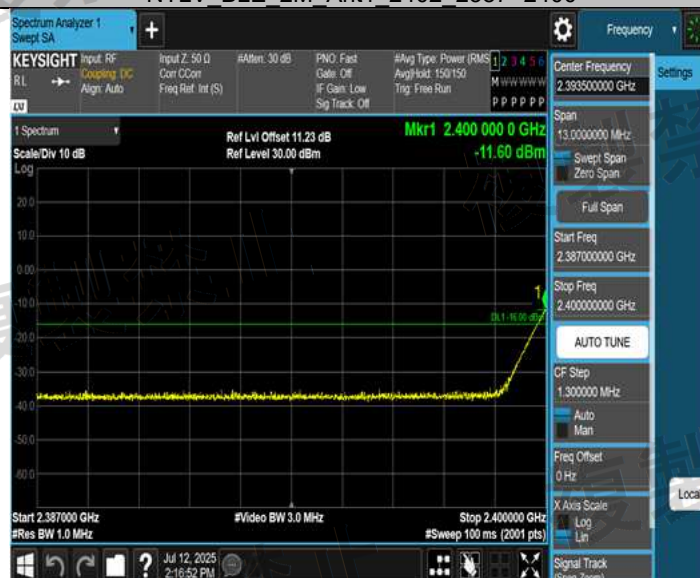
NTLV BLE 2M Ant1 2402 500~1000



NTLV BLE 2M Ant1 2402 1000~2387



NTLV BLE 2M Ant1 2402 2387~2400



NTLV BLE 2M Ant1 2402 2483.5~2496.5



NTLV BLE 2M Ant1 2402 2496.5~13000



NTLV BLE 2M Ant1 2440 30~500



NTLV BLE 2M Ant1 2440 500~1000



NTLV BLE 2M Ant1 2440 1000~2387



NTLV BLE 2M Ant1 2440 2387~2400



NTLV BLE 2M Ant1 2440 2483.5~2496.5



NTLV BLE 2M Ant1 2440 2496.5~13000



NTLV BLE 2M Ant1 2480 30~500



NTLV BLE 2M Ant1 2480 500~1000



NTLV BLE 2M Ant1 2480 1000~2387



NTLV BLE 2M Ant1 2480 2387~2400



NTLV BLE 2M Ant1 2480 2483.5~2496.5



NTLV BLE 2M Ant1 2480 2496.5~13000



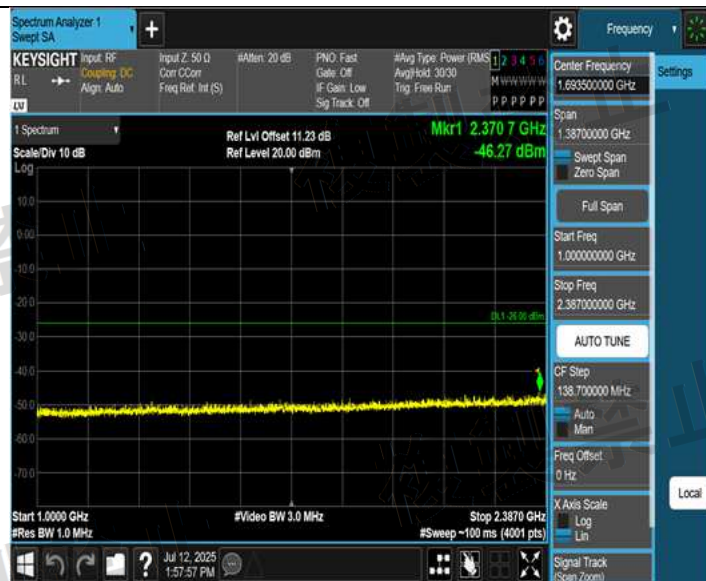
NTHV BLE 1M Ant1 2402 30~500



NTHV BLE 1M Ant1 2402 500~1000



NTHV BLE 1M Ant1 2402 1000~2387



NTHV BLE 1M Ant1 2402 2387~2400



NTHV BLE 1M Ant1 2402 2483.5~2496.5



NTHV BLE 1M Ant1 2402 2496.5~13000



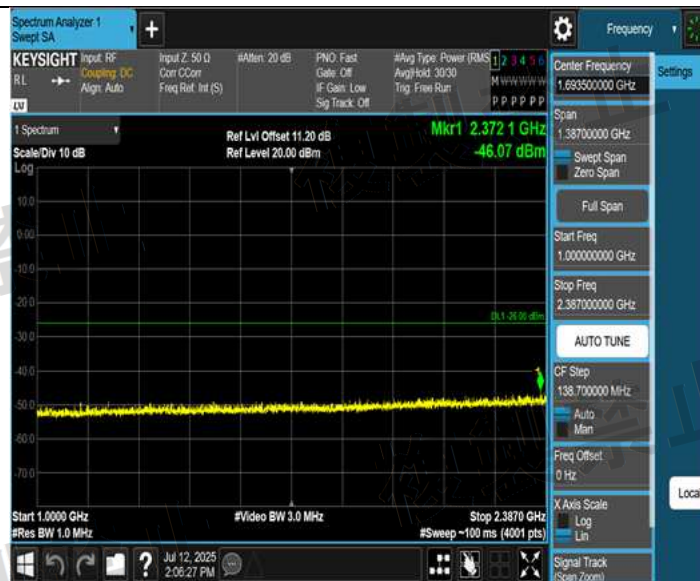
NTHV BLE 1M Ant1 2440 30~500



NTHV BLE 1M Ant1 2440 500~1000



NTHV BLE 1M Ant1 2440 1000~2387



NTHV BLE 1M Ant1 2440 2387~2400



NTHV BLE 1M Ant1 2440 2483.5~2496.5



NTHV BLE 1M Ant1 2440 2496.5~13000



NTHV BLE 1M Ant1 2480 30~500



NTHV BLE 1M Ant1 2480 500~1000



NTHV BLE 1M Ant1 2480 1000~2387



NTHV BLE 1M Ant1 2480 2387~2400



NTHV BLE 1M Ant1 2480 2483.5~2496.5



NTHV BLE 1M Ant1 2480 2496.5~13000



NTHV BLE 2M Ant1 2402 30~500



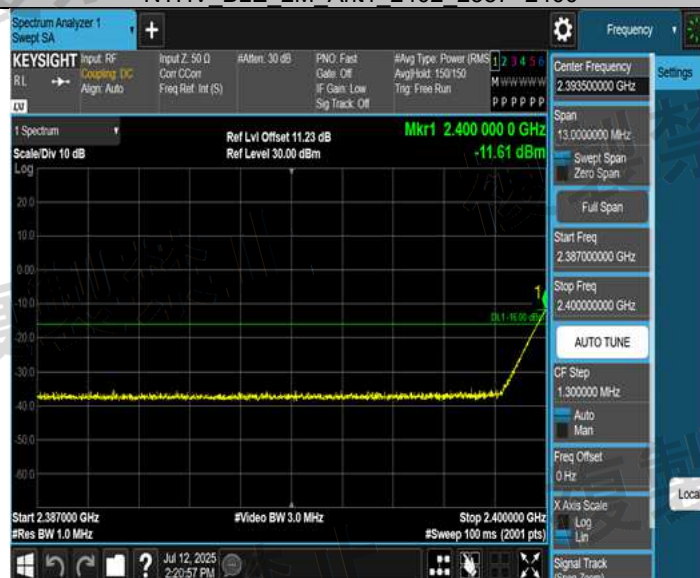
NTHV BLE 2M Ant1 2402 500~1000



NTHV BLE 2M Ant1 2402 1000~2387



NTHV BLE 2M Ant1 2402 2387~2400



NTHV BLE 2M Ant1 2402 2483.5~2496.5



NTHV BLE 2M Ant1 2402 2496.5~13000



NTHV BLE 2M Ant1 2440 30~500



NTHV BLE 2M Ant1 2440 500~1000



NTHV BLE 2M Ant1 2440 1000~2387



NTHV BLE 2M Ant1 2440 2387~2400



NTHV BLE 2M Ant1 2440 2483.5~2496.5



NTHV BLE 2M Ant1 2440 2496.5~13000



NTHV BLE 2M Ant1 2480 30~500



NTHV BLE 2M Ant1 2480 500~1000



NTHV BLE 2M Ant1 2480 1000~2387



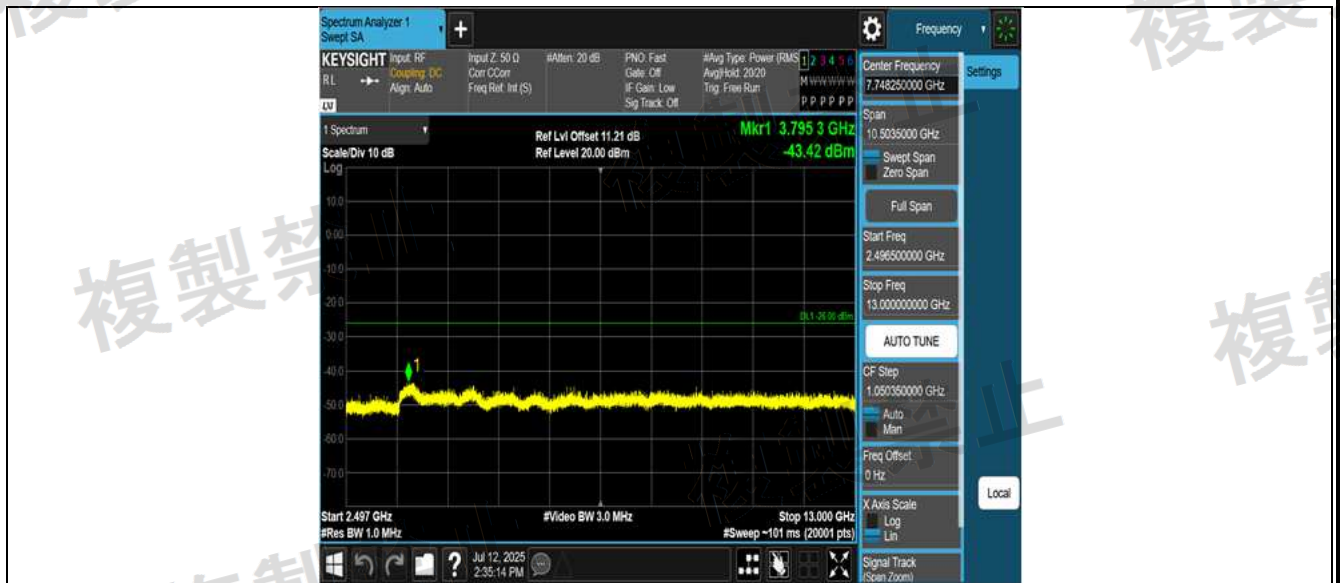
NTHV BLE 2M Ant1 2480 2387~2400



NTHV BLE 2M Ant1 2480 2483.5~2496.5

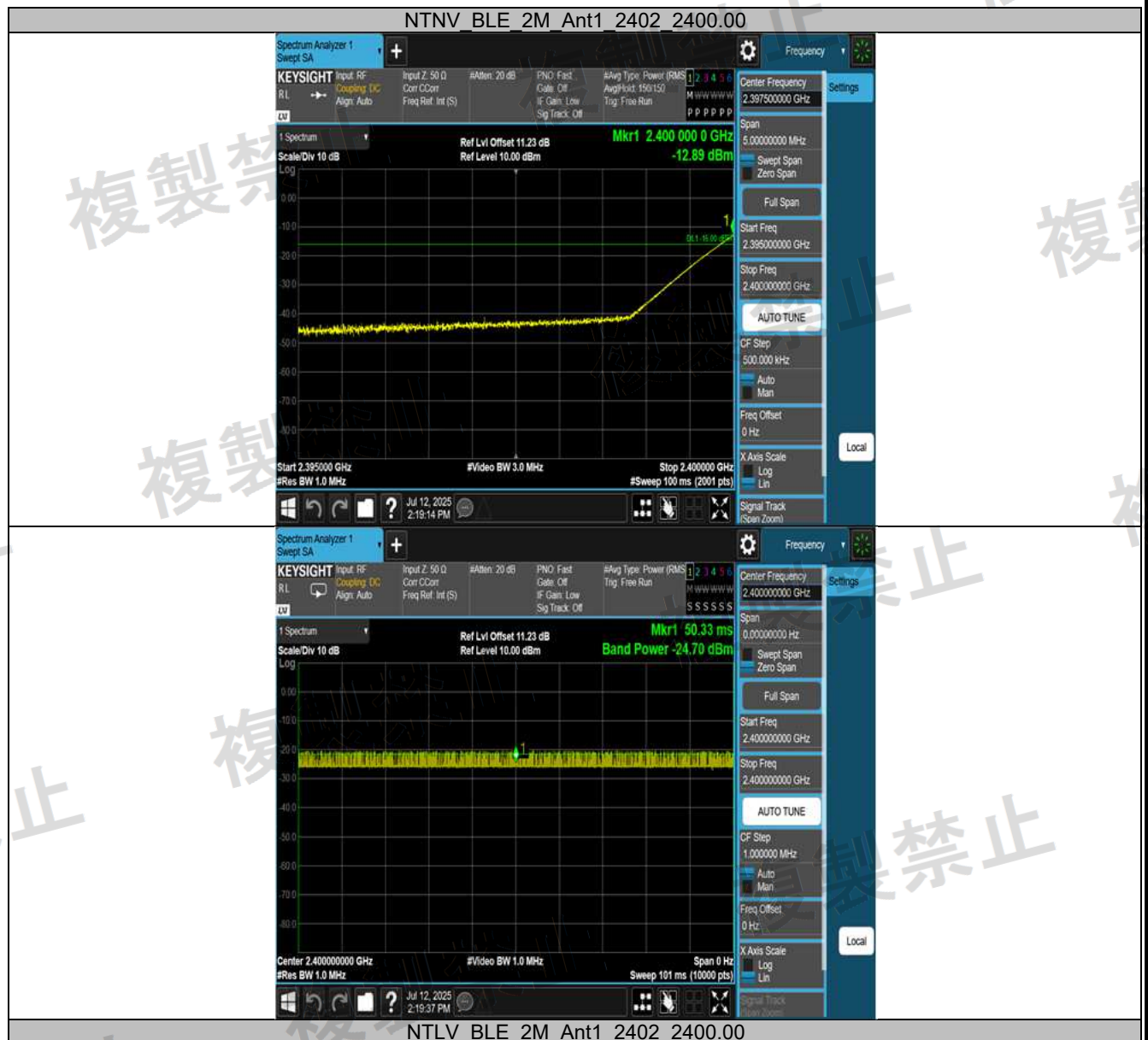


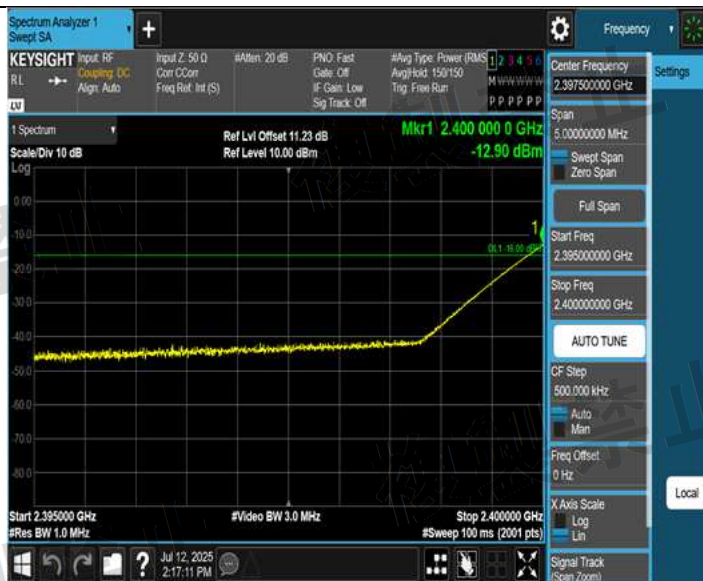
NTHV BLE 2M Ant1 2480 2496.5~13000



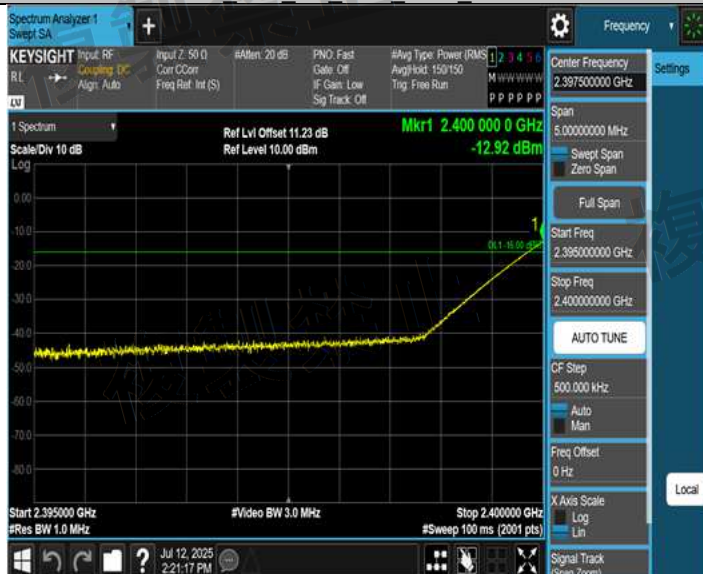


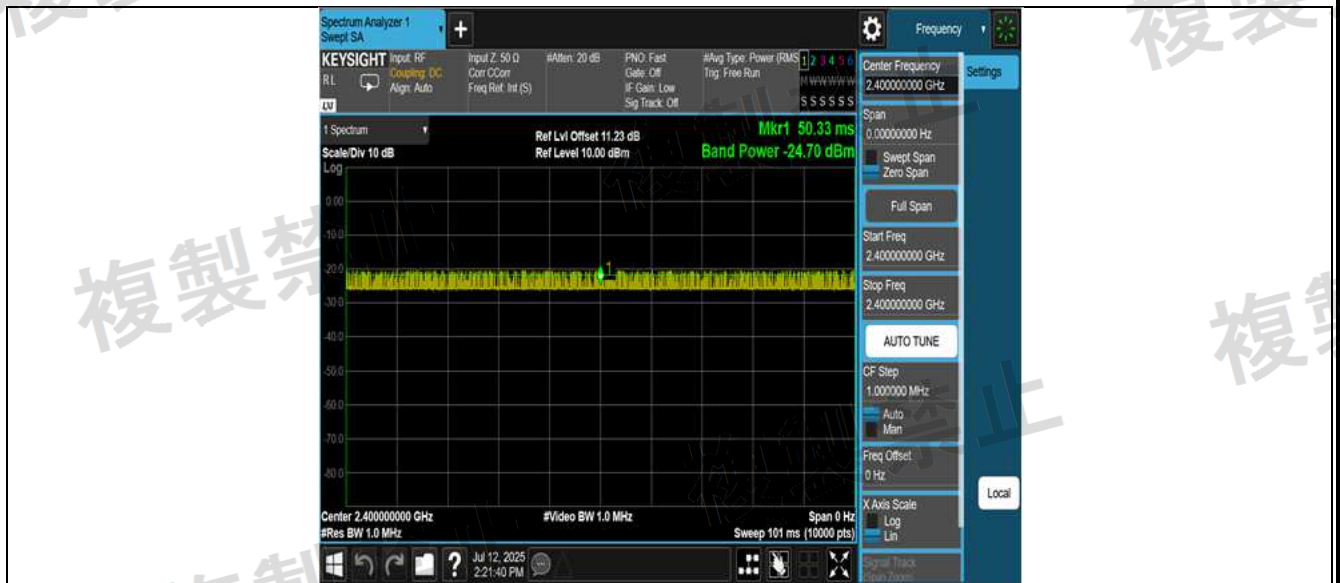
Test Graphs_Step2





NTHV_BLE_2M_Ant1_2402_2400.00





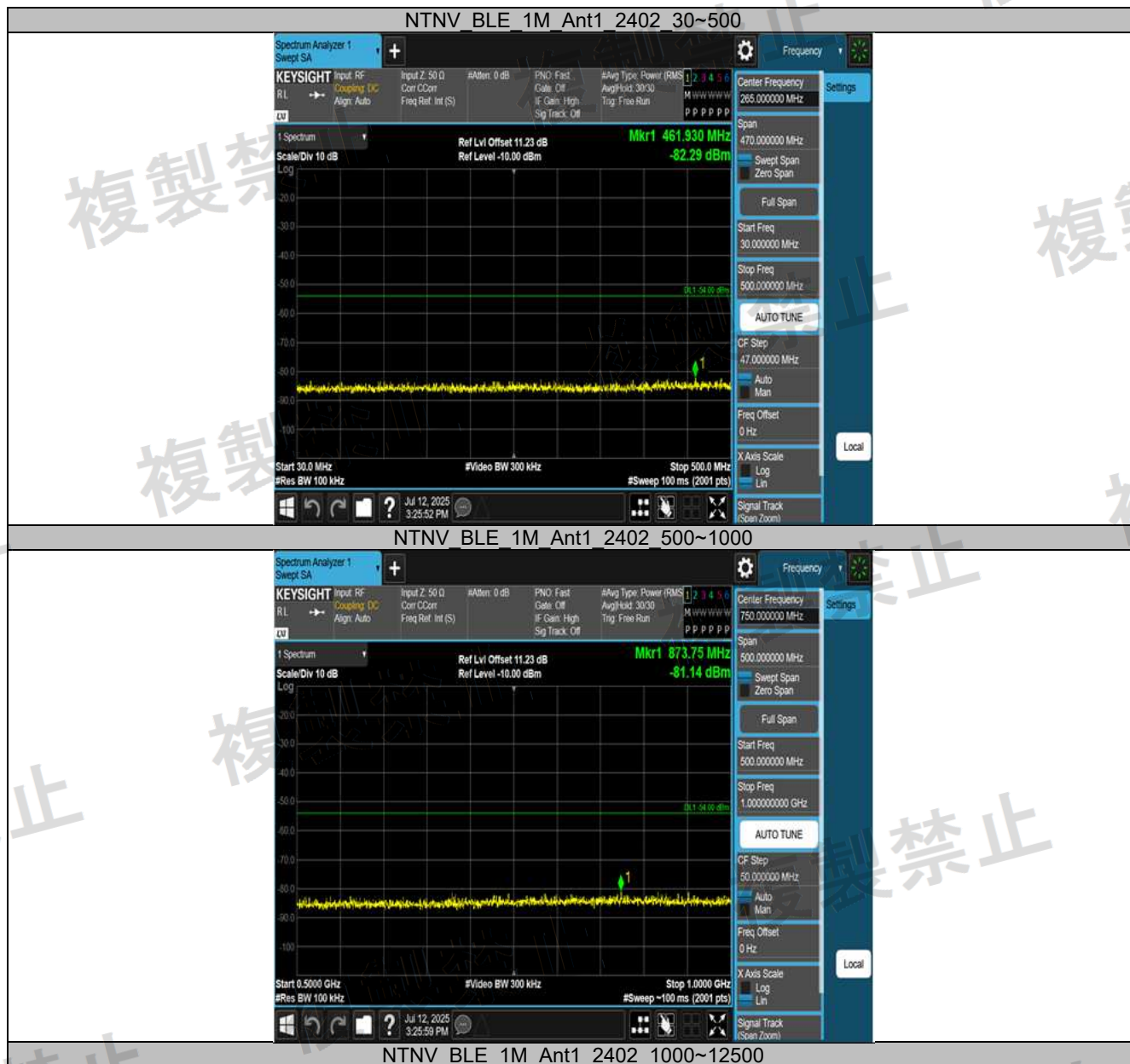
Appendix A.6: Test Results of Spurious Emissions for Receiver

Test Result

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~500	461.93	-82.30	≤-54	0.00589	≤4	PASS
				500~1000	873.75	-81.14	≤-54	0.00769	≤4	PASS
				1000~12500	3833.60	-63.50	≤-47	0.44668	≤20	PASS
			2440	30~500	399.19	-82.52	≤-54	0.00560	≤4	PASS
				500~1000	921.75	-80.92	≤-54	0.00809	≤4	PASS
				1000~12500	3720.90	-64.30	≤-47	0.37154	≤20	PASS
			2480	30~500	427.86	-81.75	≤-54	0.00668	≤4	PASS
				500~1000	575.00	-81.92	≤-54	0.00643	≤4	PASS
				1000~12500	3840.50	-63.57	≤-47	0.43954	≤20	PASS
	BLE_2M	Ant1	2402	30~500	499.53	-82.14	≤-54	0.00611	≤4	PASS
				500~1000	927.00	-81.26	≤-54	0.00748	≤4	PASS
				1000~12500	3800.25	-62.69	≤-47	0.53827	≤20	PASS
			2440	30~500	441.96	-82.40	≤-54	0.00575	≤4	PASS
				500~1000	803.75	-81.17	≤-54	0.00764	≤4	PASS
				1000~12500	3869.83	-63.60	≤-47	0.43652	≤20	PASS
			2480	30~500	487.31	-81.65	≤-54	0.00684	≤4	PASS
				500~1000	875.50	-81.06	≤-54	0.00783	≤4	PASS
				1000~12500	3843.95	-64.29	≤-47	0.37239	≤20	PASS
NTLV	BLE_1M	Ant1	2402	30~500	453.71	-82.04	≤-54	0.00625	≤4	PASS
				500~1000	859.50	-81.54	≤-54	0.00701	≤4	PASS
				1000~12500	3829.58	-63.02	≤-47	0.49888	≤20	PASS
			2440	30~500	427.15	-81.69	≤-54	0.00678	≤4	PASS
				500~1000	951.50	-80.72	≤-54	0.00847	≤4	PASS
				1000~12500	3843.95	-63.03	≤-47	0.49774	≤20	PASS
			2480	30~500	448.07	-81.73	≤-54	0.00671	≤4	PASS
				500~1000	914.25	-81.59	≤-54	0.00693	≤4	PASS
				1000~12500	3795.08	-63.77	≤-47	0.41976	≤20	PASS
	BLE_2M	Ant1	2402	30~500	380.62	-82.37	≤-54	0.00579	≤4	PASS
				500~1000	800.75	-81.30	≤-54	0.00741	≤4	PASS
				1000~12500	3839.93	-63.51	≤-47	0.44566	≤20	PASS
			2440	30~500	476.50	-82.06	≤-54	0.00622	≤4	PASS
				500~1000	904.75	-81.22	≤-54	0.00755	≤4	PASS
				1000~12500	3904.90	-64.06	≤-47	0.39264	≤20	PASS
			2480	30~500	457.23	-82.21	≤-54	0.00601	≤4	PASS
				500~1000	885.75	-81.34	≤-54	0.00735	≤4	PASS
				1000~12500	3850.28	-63.98	≤-47	0.39994	≤20	PASS
NTHV	BLE_1M	Ant1	2402	30~500	102.62	-82.81	≤-54	0.00524	≤4	PASS
				500~1000	952.00	-81.62	≤-54	0.00689	≤4	PASS
				1000~12500	3885.35	-63.82	≤-47	0.41495	≤20	PASS
			2440	30~500	399.89	-81.82	≤-54	0.00658	≤4	PASS
				500~1000	869.75	-80.95	≤-54	0.00804	≤4	PASS
				1000~12500	3703.08	-63.86	≤-47	0.41115	≤20	PASS
			2480	30~500	411.17	-81.89	≤-54	0.00647	≤4	PASS
				500~1000	919.00	-81.18	≤-54	0.00762	≤4	PASS
				1000~12500	3866.95	-63.55	≤-47	0.44157	≤20	PASS
	BLE_2M	Ant1	2402	30~500	450.42	-82.12	≤-54	0.00614	≤4	PASS
				500~1000	902.75	-81.26	≤-54	0.00748	≤4	PASS
				1000~12500	3814.05	-62.63	≤-47	0.54576	≤20	PASS
			2440	30~500	424.57	-82.48	≤-54	0.00565	≤4	PASS
				500~1000	833.25	-80.82	≤-54	0.00828	≤4	PASS
				1000~12500	3793.35	-63.95	≤-47	0.40272	≤20	PASS
			2480	30~500	430.91	-81.86	≤-54	0.00652	≤4	PASS
				500~1000	913.50	-81.94	≤-54	0.00640	≤4	PASS
				1000~12500	3922.73	-64.30	≤-47	0.37154	≤20	PASS



Test Graphs





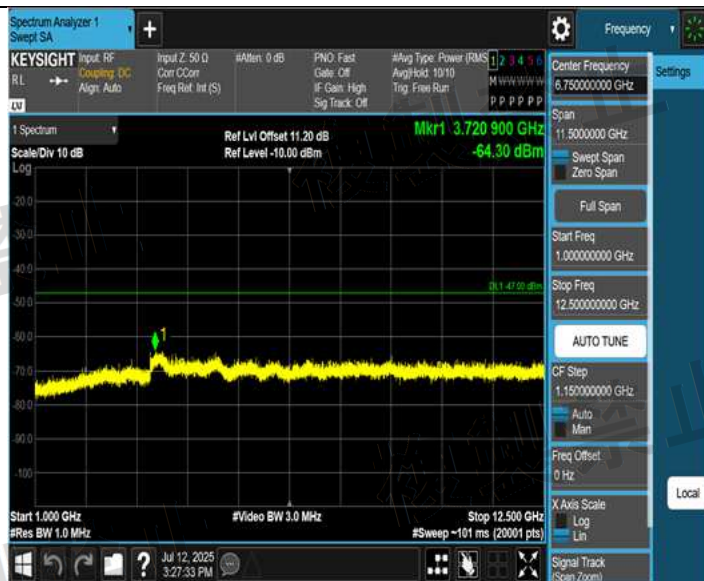
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NTNV BLE 1M Ant1 2440 500~1000



NTNV BLE 1M Ant1 2440 1000~12500



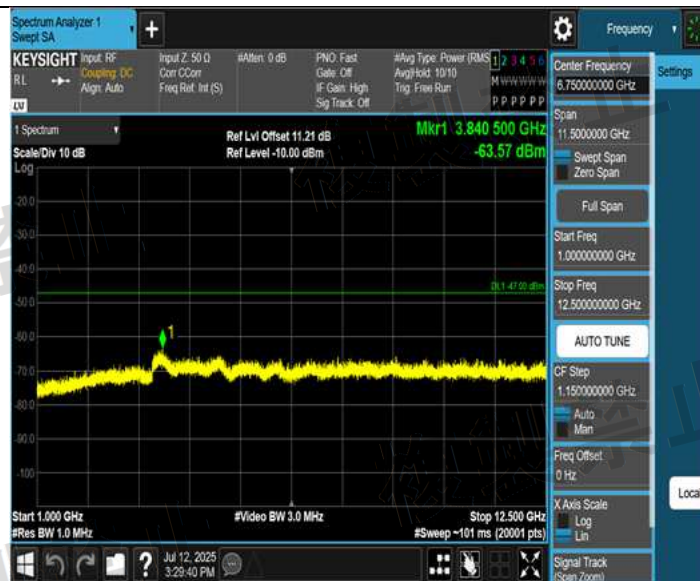
NTNV BLE 1M Ant1 2480 30~500



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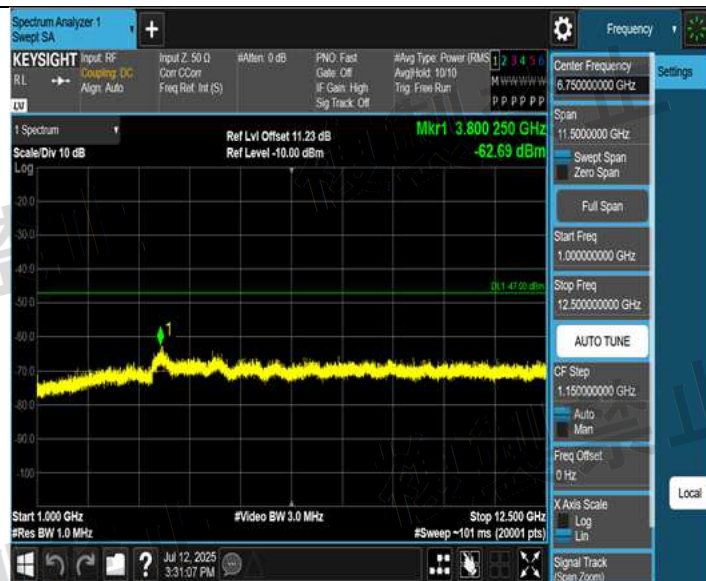
NTNV BLE 2M Ant1 2402 30~500



NTNV BLE 2M Ant1 2402 500~1000



NTNV BLE 2M Ant1 2402 1000~12500



NTNV BLE 2M Ant1 2440 30~500



NTNV BLE 2M Ant1 2440 500~1000



NTNV BLE 2M Ant1 2440 1000~12500



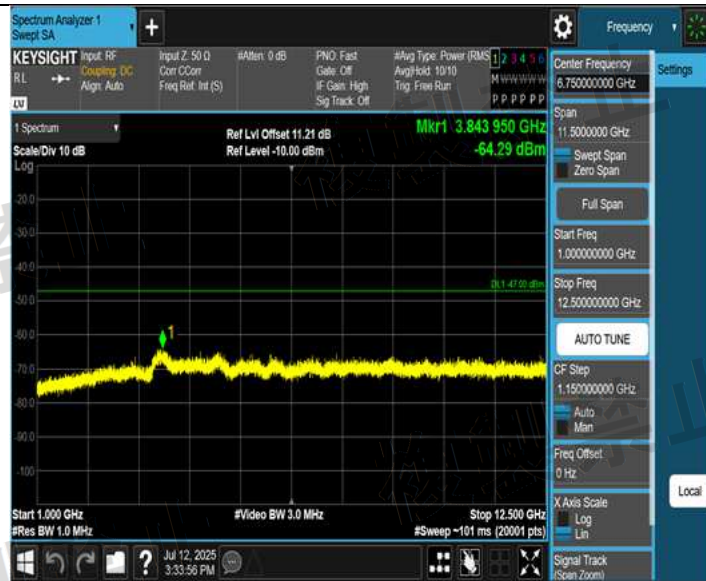
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NTNV BLE 2M Ant1 2480 500~1000



NTNV BLE 2M Ant1 2480 1000~12500



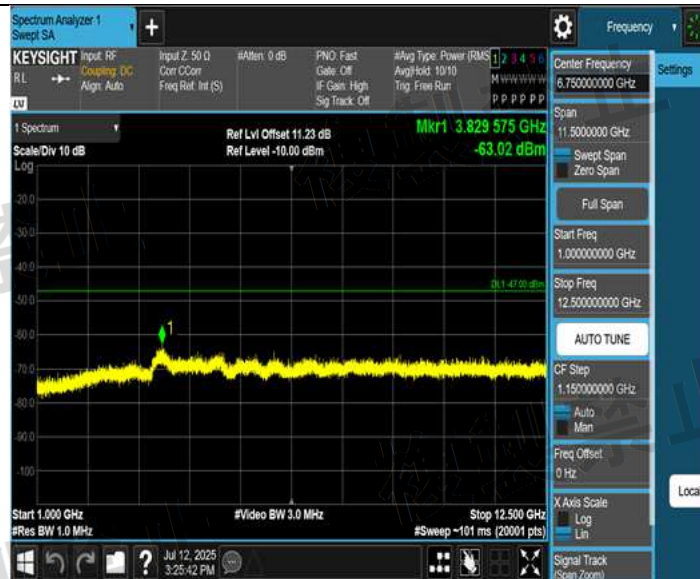
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NTLV BLE 1M Ant1 2402 500~1000



NTLV BLE 1M Ant1 2402 1000~12500



NTLV BLE 1M Ant1 2440 30~500



NTLV BLE 1M Ant1 2440 500~1000



NTLV BLE 1M Ant1 2440 1000~12500



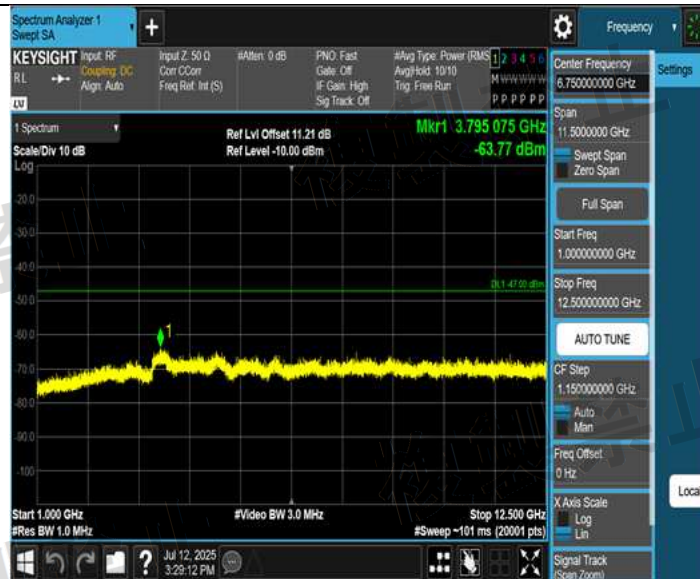
NTLV BLE 1M Ant1 2480 30~500



NTLV BLE 1M Ant1 2480 500~1000



NTLV BLE 1M Ant1 2480 1000~12500



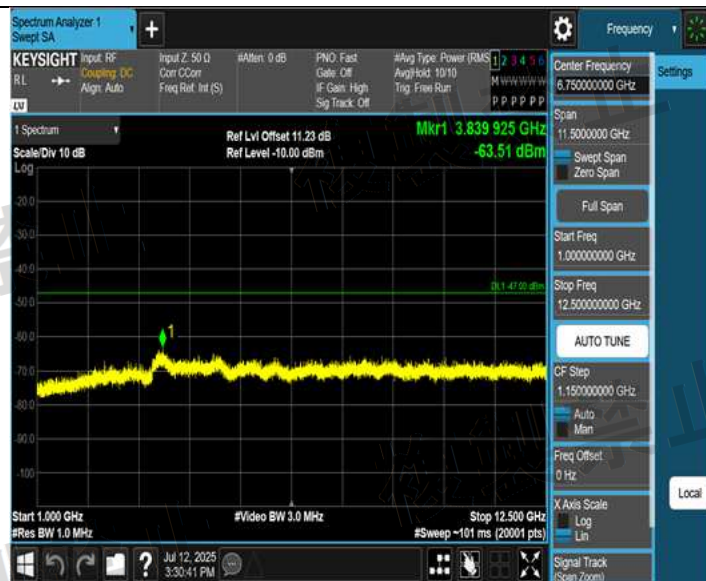
NTLV BLE 2M Ant1 2402 30~500



NTLV BLE 2M Ant1 2402 500~1000



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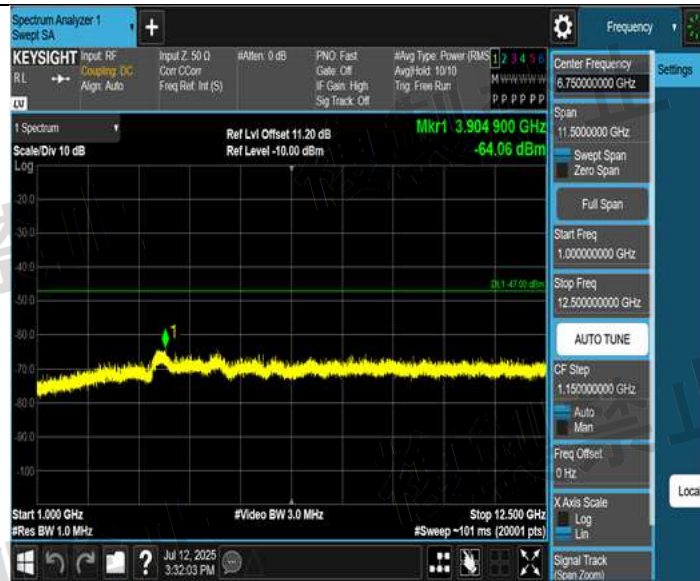
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NTLV BLE 2M Ant1 2440 500~1000



NTLV BLE 2M Ant1 2440 1000~12500



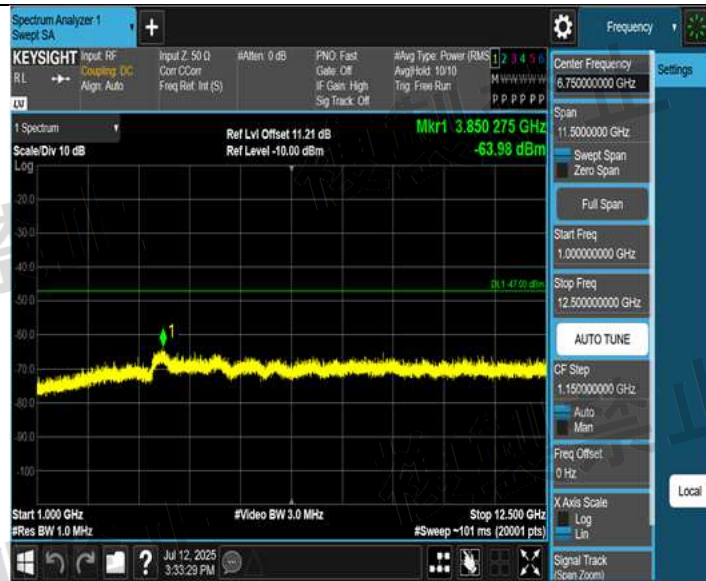
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NTLV BLE 2M Ant1 2480 1000~12500



NTHV BLE 1M Ant1 2402 30~500



NTHV BLE 1M Ant1 2402 500~1000



NTHV BLE 1M Ant1 2402 1000~12500



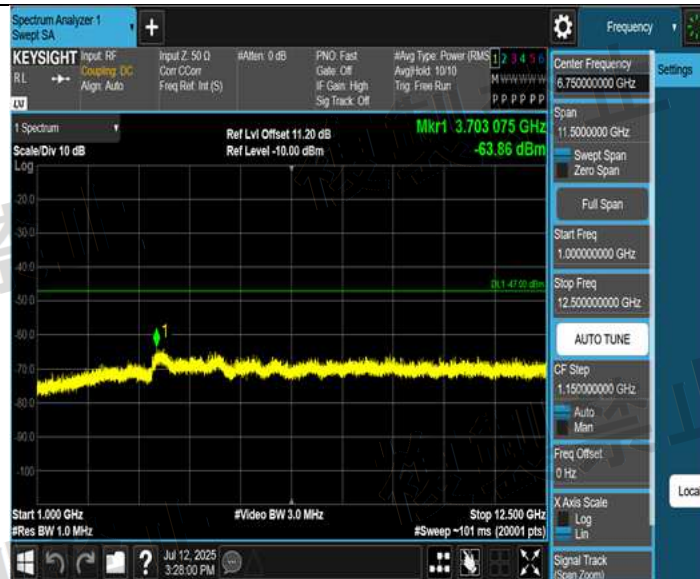
NTHV BLE 1M Ant1 2440 30~500



NTHV BLE 1M Ant1 2440 500~1000



NTHV BLE 1M Ant1 2440 1000~12500



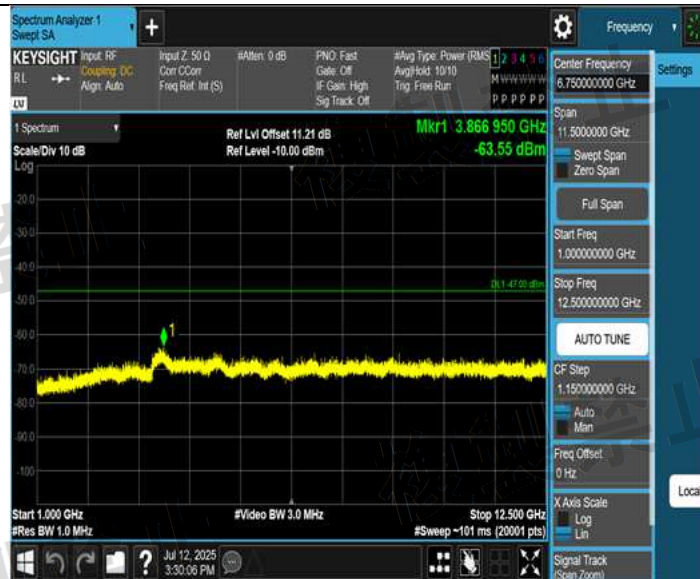
NTHV BLE 1M Ant1 2480 30~500



NTHV BLE 1M Ant1 2480 500~1000



NTHV BLE 1M Ant1 2480 1000~12500



NTHV BLE 2M Ant1 2402 30~500



NTHV BLE 2M Ant1 2402 500~1000



NTHV BLE 2M Ant1 2402 1000~12500



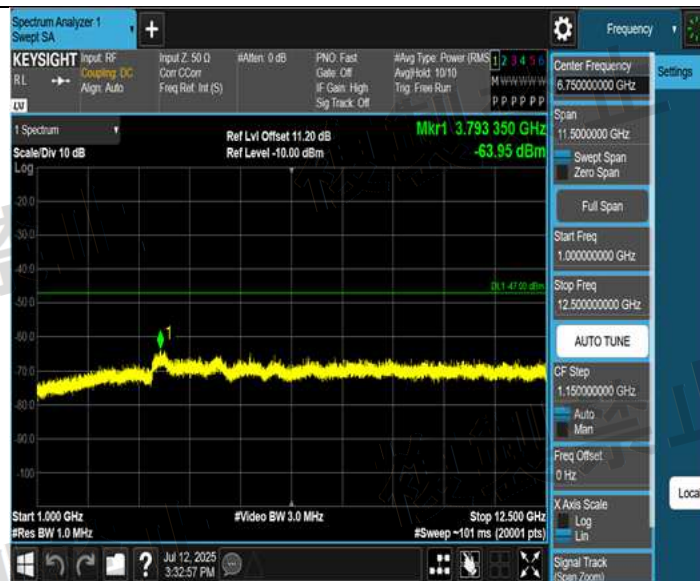
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NTHV BLE 2M Ant1 2440 500~1000



NTHV BLE 2M Ant1 2440 1000~12500



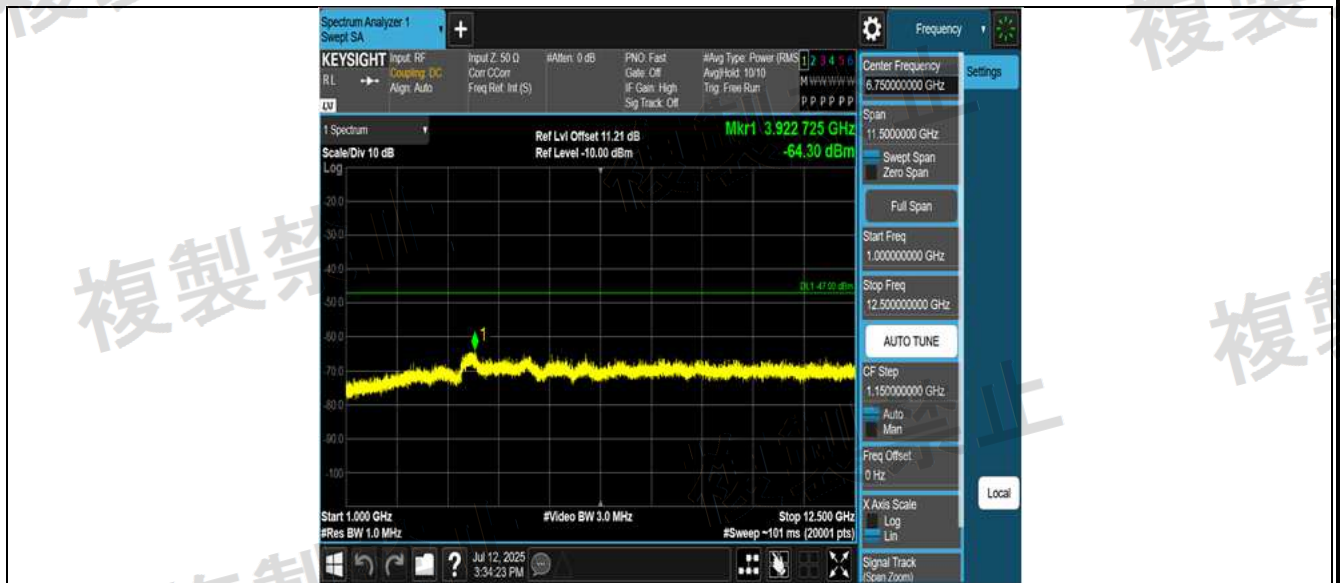
NTHV BLE 2M Ant1 2480 30~500



NTHV BLE 2M Ant1 2480 500~1000



NTHV BLE 2M Ant1 2480 1000~12500



Appendix B: Test Results of WI-FI 2.4 GHz Band

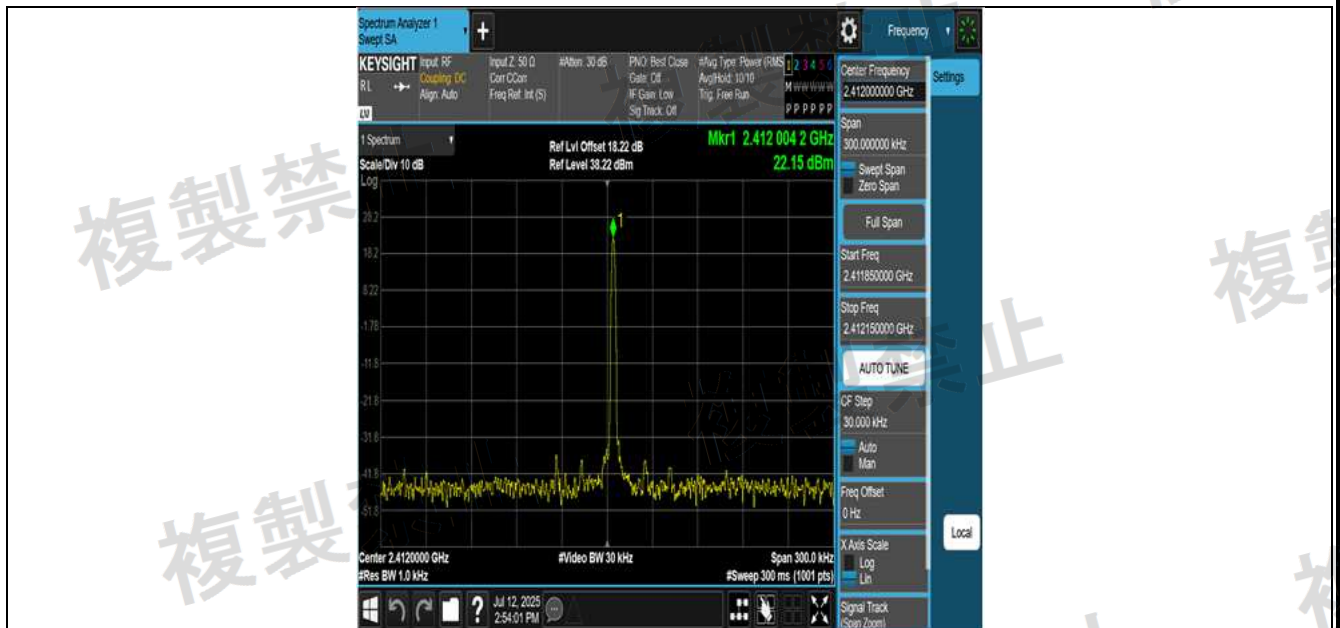
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Appendix B.1: Test Results of Frequency Tolerance

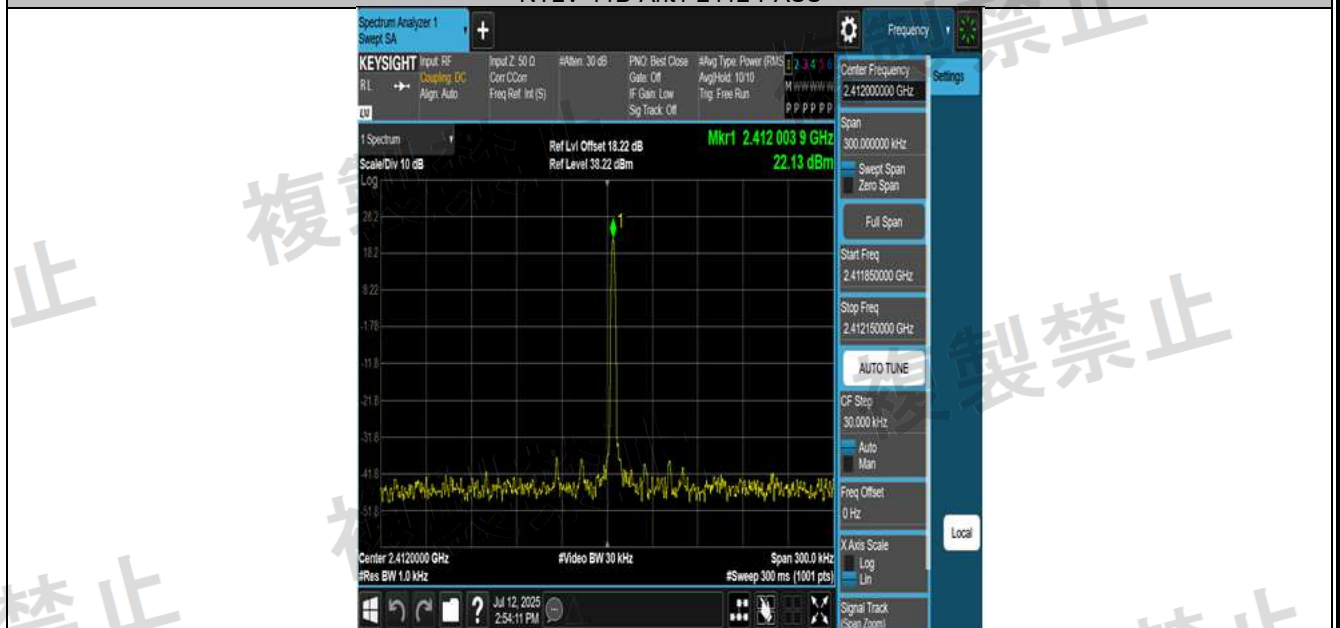
Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTLV	11B	Ant1	2412	2412.0042	1.74129	±50	PASS
NTNV	11B	Ant1	2412	2412.0039	1.61692	±50	PASS
NTHV	11B	Ant1	2412	2412.0039	1.61692	±50	PASS
NTLV	11B	Ant1	2442	2442.0057	2.33415	±50	PASS
NTNV	11B	Ant1	2442	2442.0042	1.71990	±50	PASS
NTHV	11B	Ant1	2442	2442.0039	1.59705	±50	PASS
NTLV	11B	Ant1	2472	2472.006	2.42718	±50	PASS
NTNV	11B	Ant1	2472	2472.0042	1.69903	±50	PASS
NTHV	11B	Ant1	2472	2472.0039	1.57767	±50	PASS
NTLV	11G	Ant1	2412	2412.006	2.48756	±50	PASS
NTNV	11G	Ant1	2412	2412.0042	1.74129	±50	PASS
NTHV	11G	Ant1	2412	2412.0039	1.61692	±50	PASS
NTLV	11G	Ant1	2442	2442.0057	2.33415	±50	PASS
NTNV	11G	Ant1	2442	2442.0042	1.71990	±50	PASS
NTHV	11G	Ant1	2442	2442.0039	1.59705	±50	PASS
NTLV	11G	Ant1	2472	2472.0051	2.06311	±50	PASS
NTNV	11G	Ant1	2472	2472.0039	1.57767	±50	PASS
NTHV	11G	Ant1	2472	2472.0039	1.57767	±50	PASS
NTLV	11N20SISO	Ant1	2412	2412.0054	2.23881	±50	PASS
NTNV	11N20SISO	Ant1	2412	2412.0042	1.74129	±50	PASS
NTHV	11N20SISO	Ant1	2412	2412.0039	1.61692	±50	PASS
NTLV	11N20SISO	Ant1	2442	2442.0045	1.84275	±50	PASS
NTNV	11N20SISO	Ant1	2442	2442.0039	1.59705	±50	PASS
NTHV	11N20SISO	Ant1	2442	2442.0039	1.59705	±50	PASS
NTLV	11N20SISO	Ant1	2472	2472.0051	2.06311	±50	PASS
NTNV	11N20SISO	Ant1	2472	2472.0042	1.69903	±50	PASS
NTHV	11N20SISO	Ant1	2472	2472.0039	1.57767	±50	PASS
NTLV	11N40SISO	Ant1	2422	2422.0057	2.35343	±50	PASS
NTNV	11N40SISO	Ant1	2422	2422.0042	1.73410	±50	PASS
NTHV	11N40SISO	Ant1	2422	2422.0039	1.61024	±50	PASS
NTLV	11N40SISO	Ant1	2442	2442.0057	2.33415	±50	PASS
NTNV	11N40SISO	Ant1	2442	2442.0042	1.71990	±50	PASS
NTHV	11N40SISO	Ant1	2442	2442.0039	1.59705	±50	PASS
NTLV	11N40SISO	Ant1	2462	2462.006	2.43704	±50	PASS
NTNV	11N40SISO	Ant1	2462	2462.0042	1.70593	±50	PASS
NTHV	11N40SISO	Ant1	2462	2462.0039	1.58408	±50	PASS

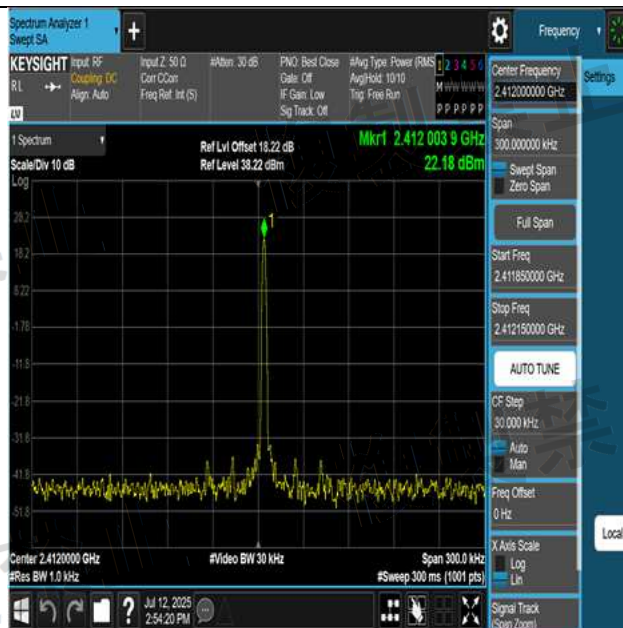
Test Graphs



NTLV-11B-Ant1-2412-PASS



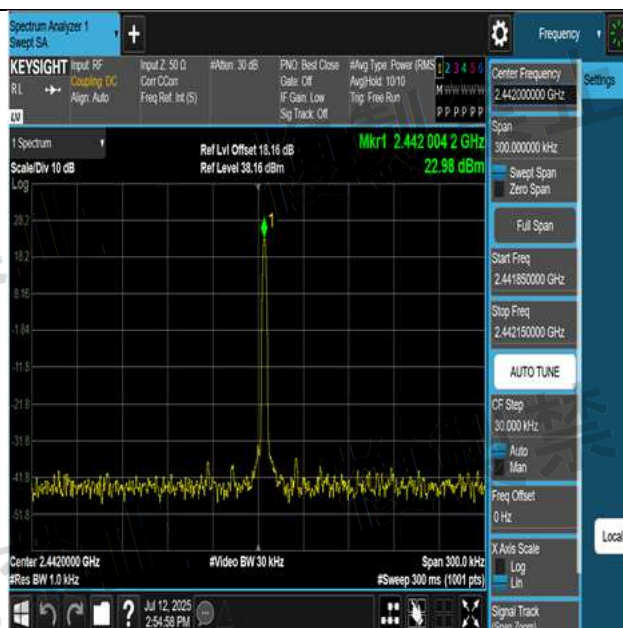
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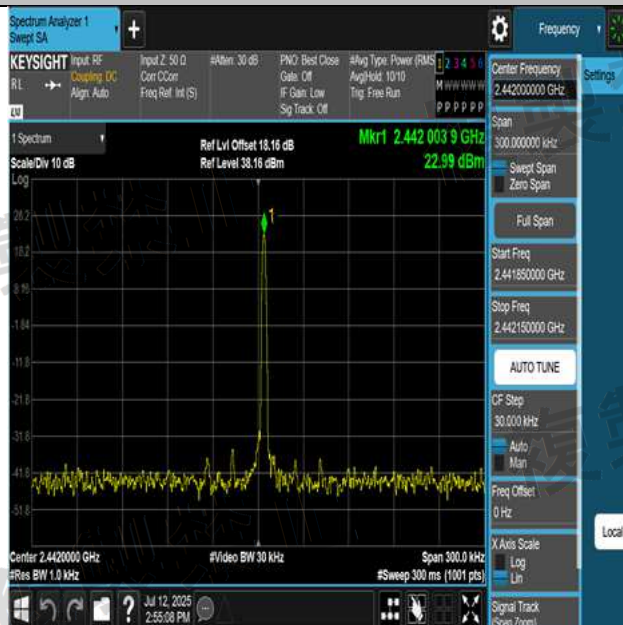
NTHV-11B-Ant1-2412-PASS



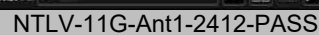
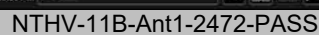
NTLV-11B-Ant1-2442-PASS

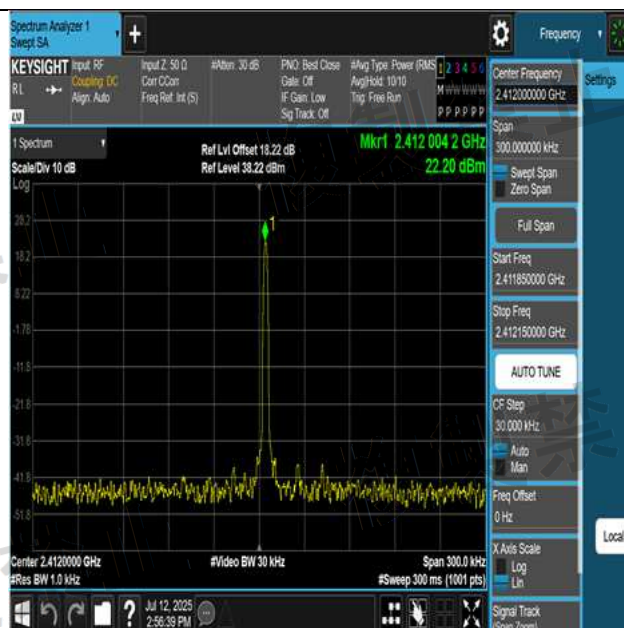


NTNV-11B-Ant1-2442-PASS

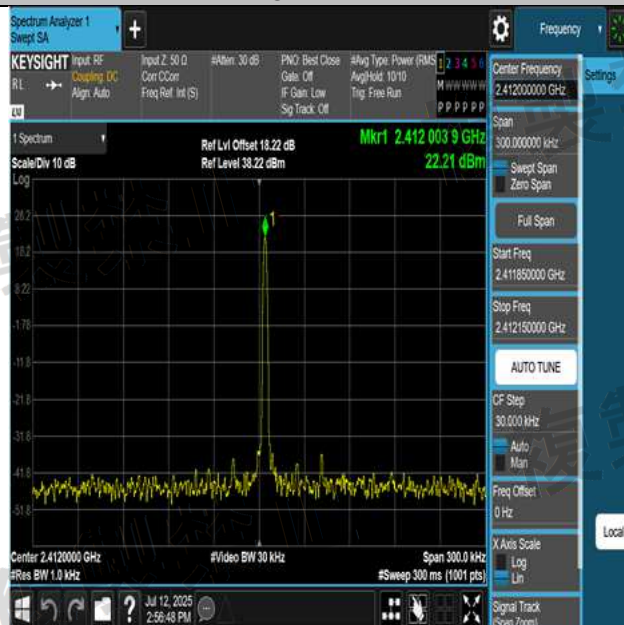


NTHV-11B-Ant1-2442-PASS

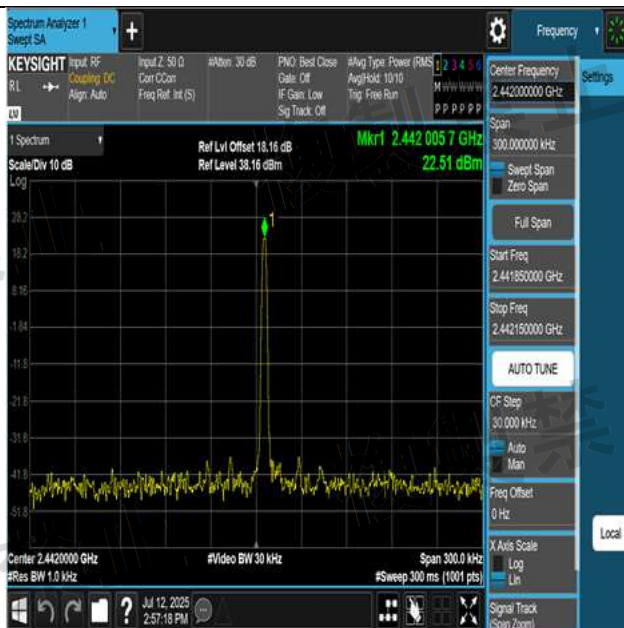




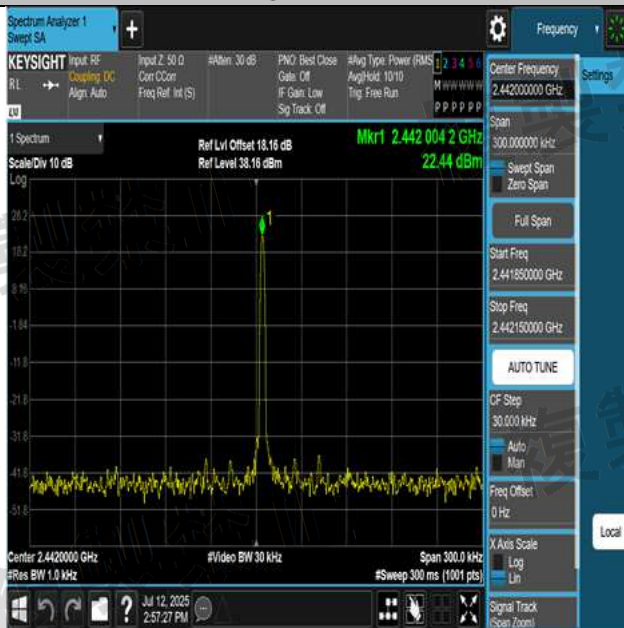
NTNV-11G-Ant1-2412-PASS



NTHV-11G-Ant1-2412-PASS

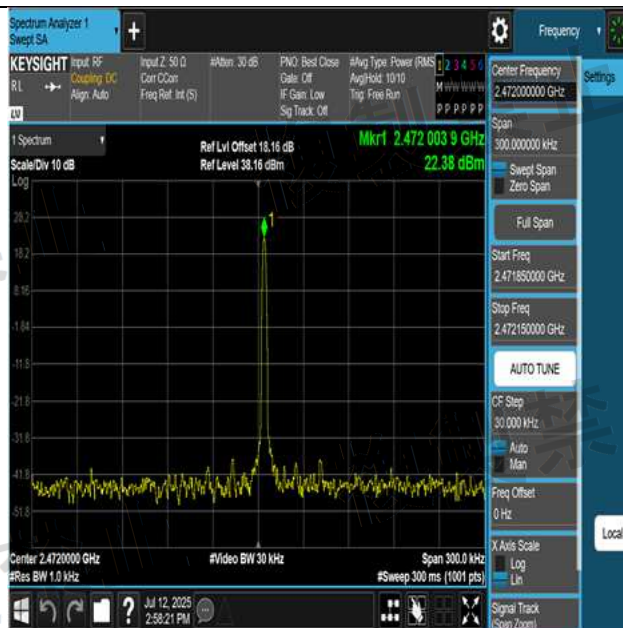


NTLV-11G-Ant1-2442-PASS



NTNV-11G-Ant1-2442-PASS

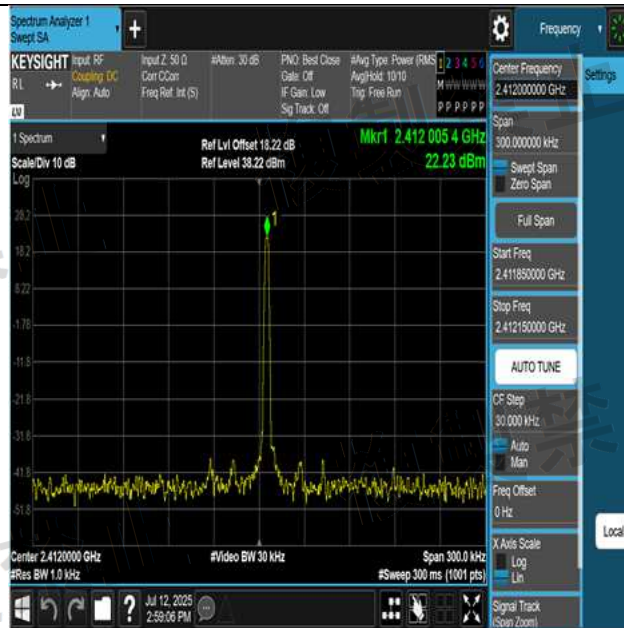
NTLV-11G-Ant1-2472-PASS



NTNV-11G-Ant1-2472-PASS



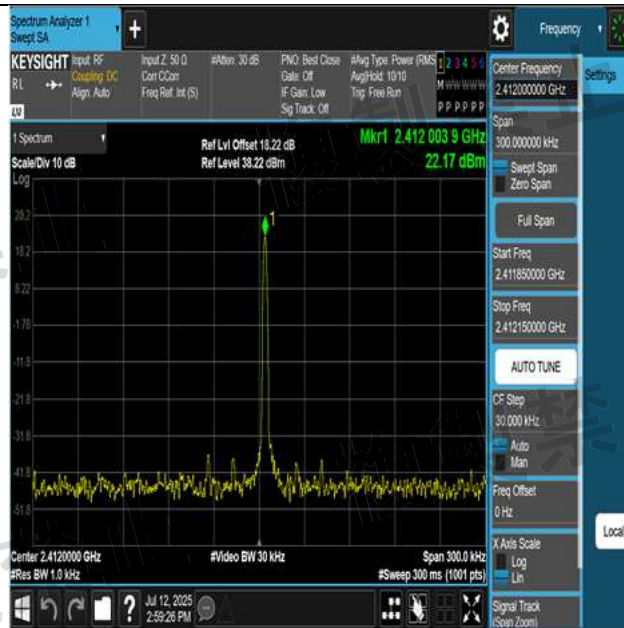
NTHV-11G-Ant1-2472-PASS



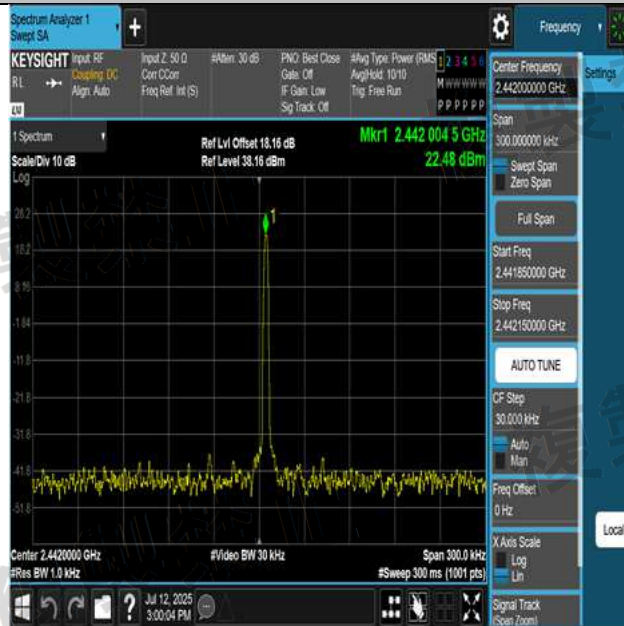
NTLV-11N20SISO-Ant1-2412-PASS



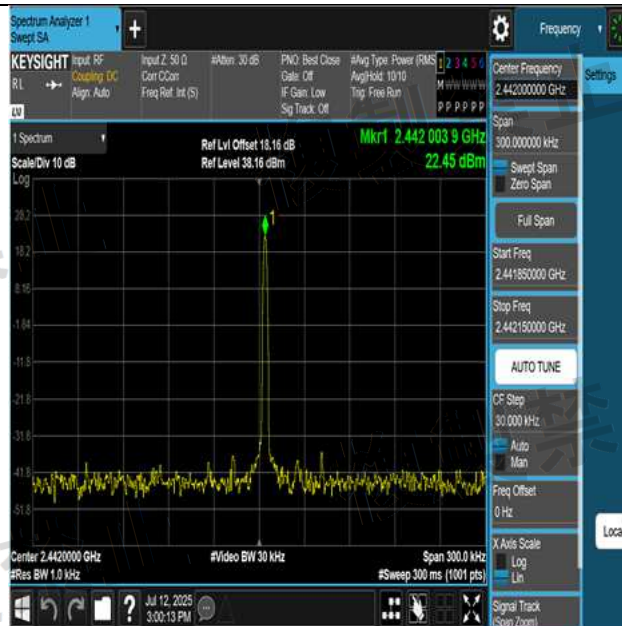
NTNV-11N20SISO-Ant1-2412-PASS



NTHV-11N20SISO-Ant1-2412-PASS



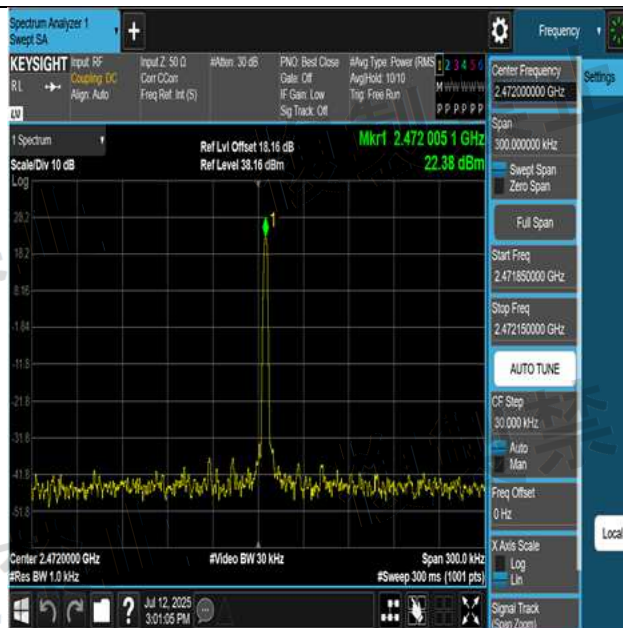
NTLV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2442-PASS



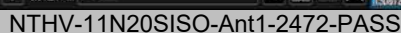
NTHV-11N20SISO-Ant1-2442-PASS



NTLV-11N20SISO-Ant1-2472-PASS

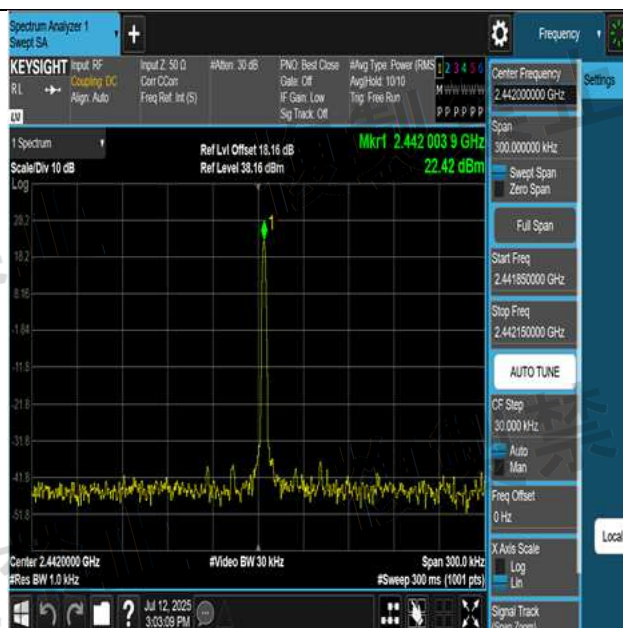


NTNV-11N20SISO-Ant1-2472-PASS

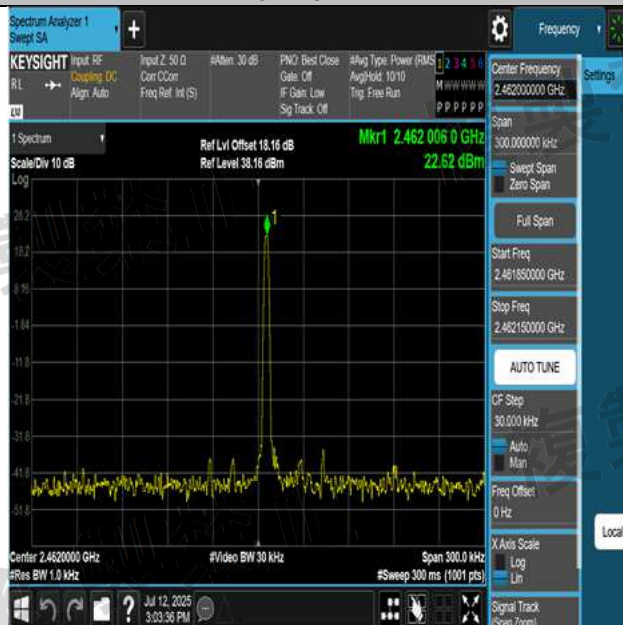








NTHV-11N40SISO-Ant1-2442-PASS



NTLV-11N40SISO-Ant1-2462-PASS

Appendix B.2: Test Results of Antenna Power

Test Result

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTLV	11B	Ant1	2412	9.90	9.7724	≤10	PASS
NTHV	11B	Ant1	2412	9.85	9.6605	≤10	PASS
NTNV	11B	Ant1	2412	9.86	9.6828	≤10	PASS
NTLV	11B	Ant1	2442	9.97	9.9312	≤10	PASS
NTNV	11B	Ant1	2442	9.96	9.9083	≤10	PASS
NTHV	11B	Ant1	2442	9.95	9.8855	≤10	PASS
NTLV	11B	Ant1	2472	9.14	8.2035	≤10	PASS
NTNV	11B	Ant1	2472	9.14	8.2035	≤10	PASS
NTHV	11B	Ant1	2472	9.13	8.1846	≤10	PASS
NTLV	11G	Ant1	2412	7.64	5.8076	≤10	PASS
NTNV	11G	Ant1	2412	7.68	5.8614	≤10	PASS
NTHV	11G	Ant1	2412	7.71	5.9020	≤10	PASS
NTLV	11G	Ant1	2442	7.51	5.6364	≤10	PASS
NTNV	11G	Ant1	2442	7.41	5.5081	≤10	PASS
NTHV	11G	Ant1	2442	7.40	5.4954	≤10	PASS
NTLV	11G	Ant1	2472	6.02	3.9994	≤10	PASS
NTNV	11G	Ant1	2472	6.06	4.0365	≤10	PASS
NTHV	11G	Ant1	2472	6.00	3.9811	≤10	PASS
NTLV	11N20SISO	Ant1	2412	7.29	5.3580	≤10	PASS
NTNV	11N20SISO	Ant1	2412	7.36	5.4450	≤10	PASS
NTHV	11N20SISO	Ant1	2412	7.36	5.4450	≤10	PASS
NTLV	11N20SISO	Ant1	2442	7.25	5.3088	≤10	PASS
NTNV	11N20SISO	Ant1	2442	7.24	5.2966	≤10	PASS
NTHV	11N20SISO	Ant1	2442	7.23	5.2845	≤10	PASS
NTLV	11N20SISO	Ant1	2472	5.27	3.3651	≤10	PASS
NTNV	11N20SISO	Ant1	2472	5.32	3.4041	≤10	PASS
NTHV	11N20SISO	Ant1	2472	5.35	3.4277	≤10	PASS
NTLV	11N40SISO	Ant1	2422	4.08	2.5586	≤5	PASS
NTNV	11N40SISO	Ant1	2422	4.13	2.5882	≤5	PASS
NTHV	11N40SISO	Ant1	2422	4.09	2.5645	≤5	PASS
NTLV	11N40SISO	Ant1	2442	3.89	2.4491	≤5	PASS
NTNV	11N40SISO	Ant1	2442	4.04	2.5351	≤5	PASS
NTHV	11N40SISO	Ant1	2442	4.03	2.5293	≤5	PASS
NTLV	11N40SISO	Ant1	2462	4.50	2.8184	≤5	PASS
NTNV	11N40SISO	Ant1	2462	4.36	2.7290	≤5	PASS
NTHV	11N40SISO	Ant1	2462	4.30	2.6915	≤5	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTLV	11B	Ant1	2412	9.7724	10	-2.28	-80 to +20	PASS
NTHV	11B	Ant1	2412	9.6605	10	-3.39	-80 to +20	PASS
NTNV	11B	Ant1	2412	9.6828	10	-3.17	-80 to +20	PASS
NTLV	11B	Ant1	2442	9.9312	10	-0.69	-80 to +20	PASS
NTNV	11B	Ant1	2442	9.9083	10	-0.92	-80 to +20	PASS
NTHV	11B	Ant1	2442	9.8855	10	-1.15	-80 to +20	PASS
NTLV	11B	Ant1	2472	8.2035	10	-17.97	-80 to +20	PASS
NTNV	11B	Ant1	2472	8.2035	10	-17.97	-80 to +20	PASS
NTHV	11B	Ant1	2472	8.1846	10	-18.15	-80 to +20	PASS
NTLV	11G	Ant1	2412	5.8076	10	-41.92	-80 to +20	PASS
NTNV	11G	Ant1	2412	5.8614	10	-41.39	-80 to +20	PASS
NTHV	11G	Ant1	2412	5.9020	10	-40.98	-80 to +20	PASS
NTLV	11G	Ant1	2442	5.6364	10	-43.64	-80 to +20	PASS
NTNV	11G	Ant1	2442	5.5081	10	-44.92	-80 to +20	PASS
NTHV	11G	Ant1	2442	5.4954	10	-45.05	-80 to +20	PASS
NTLV	11G	Ant1	2472	3.9994	10	-60.01	-80 to +20	PASS
NTNV	11G	Ant1	2472	4.0365	10	-59.64	-80 to +20	PASS

NTHV	11G	Ant1	2472	3.9811	10	-60.19	-80 to +20	PASS
NTLV	11N20SISO	Ant1	2412	5.3580	10	-46.42	-80 to +20	PASS
NTNV	11N20SISO	Ant1	2412	5.4450	10	-45.55	-80 to +20	PASS
NTHV	11N20SISO	Ant1	2412	5.4450	10	-45.55	-80 to +20	PASS
NTLV	11N20SISO	Ant1	2442	5.3088	10	-46.91	-80 to +20	PASS
NTNV	11N20SISO	Ant1	2442	5.2966	10	-47.03	-80 to +20	PASS
NTHV	11N20SISO	Ant1	2442	5.2845	10	-47.16	-80 to +20	PASS
NTLV	11N20SISO	Ant1	2472	3.3651	10	-66.35	-80 to +20	PASS
NTNV	11N20SISO	Ant1	2472	3.4041	10	-65.96	-80 to +20	PASS
NTHV	11N20SISO	Ant1	2472	3.4277	10	-65.72	-80 to +20	PASS
NTLV	11N40SISO	Ant1	2422	2.5586	5	-48.83	-80 to +20	PASS
NTNV	11N40SISO	Ant1	2422	2.5882	5	-48.24	-80 to +20	PASS
NTHV	11N40SISO	Ant1	2422	2.5645	5	-48.71	-80 to +20	PASS
NTLV	11N40SISO	Ant1	2442	2.4491	5	-51.02	-80 to +20	PASS
NTNV	11N40SISO	Ant1	2442	2.5351	5	-49.30	-80 to +20	PASS
NTHV	11N40SISO	Ant1	2442	2.5293	5	-49.41	-80 to +20	PASS
NTLV	11N40SISO	Ant1	2462	2.8184	5	-43.63	-80 to +20	PASS
NTNV	11N40SISO	Ant1	2462	2.7290	5	-45.42	-80 to +20	PASS
NTHV	11N40SISO	Ant1	2462	2.6915	5	-46.17	-80 to +20	PASS

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTLV	11B	Ant1	2412	9.90	10.96	≤12.14	PASS
NTHV	11B	Ant1	2412	9.85	10.91	≤12.14	PASS
NTNV	11B	Ant1	2412	9.86	10.92	≤12.14	PASS
NTLV	11B	Ant1	2442	9.97	11.03	≤12.14	PASS
NTNV	11B	Ant1	2442	9.96	11.02	≤12.14	PASS
NTHV	11B	Ant1	2442	9.95	11.01	≤12.14	PASS
NTLV	11B	Ant1	2472	9.14	10.20	≤12.14	PASS
NTNV	11B	Ant1	2472	9.14	10.20	≤12.14	PASS
NTHV	11B	Ant1	2472	9.13	10.19	≤12.14	PASS
NTLV	11G	Ant1	2412	7.64	8.70	≤12.14	PASS
NTNV	11G	Ant1	2412	7.68	8.74	≤12.14	PASS
NTHV	11G	Ant1	2412	7.71	8.77	≤12.14	PASS
NTLV	11G	Ant1	2442	7.51	8.57	≤12.14	PASS
NTNV	11G	Ant1	2442	7.41	8.47	≤12.14	PASS
NTHV	11G	Ant1	2442	7.40	8.46	≤12.14	PASS
NTLV	11G	Ant1	2472	6.02	7.08	≤12.14	PASS
NTNV	11G	Ant1	2472	6.06	7.12	≤12.14	PASS
NTHV	11G	Ant1	2472	6.00	7.06	≤12.14	PASS
NTLV	11N20SISO	Ant1	2412	7.29	8.35	≤12.14	PASS
NTNV	11N20SISO	Ant1	2412	7.36	8.42	≤12.14	PASS
NTHV	11N20SISO	Ant1	2412	7.36	8.42	≤12.14	PASS
NTLV	11N20SISO	Ant1	2442	7.25	8.31	≤12.14	PASS
NTNV	11N20SISO	Ant1	2442	7.24	8.30	≤12.14	PASS
NTHV	11N20SISO	Ant1	2442	7.23	8.29	≤12.14	PASS
NTLV	11N20SISO	Ant1	2472	5.27	6.33	≤12.14	PASS
NTNV	11N20SISO	Ant1	2472	5.32	6.38	≤12.14	PASS
NTHV	11N20SISO	Ant1	2472	5.35	6.41	≤12.14	PASS
NTLV	11N40SISO	Ant1	2422	4.08	5.14	≤9.13	PASS
NTNV	11N40SISO	Ant1	2422	4.13	5.19	≤9.13	PASS
NTHV	11N40SISO	Ant1	2422	4.09	5.15	≤9.13	PASS
NTLV	11N40SISO	Ant1	2442	3.89	4.95	≤9.13	PASS
NTNV	11N40SISO	Ant1	2442	4.04	5.10	≤9.13	PASS
NTHV	11N40SISO	Ant1	2442	4.03	5.09	≤9.13	PASS
NTLV	11N40SISO	Ant1	2462	4.50	5.56	≤9.13	PASS
NTNV	11N40SISO	Ant1	2462	4.36	5.42	≤9.13	PASS
NTHV	11N40SISO	Ant1	2462	4.30	5.36	≤9.13	PASS

Appendix B.3: Test Results of Occupied Channel Bandwidth (99%)

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTLV	11B	Ant1	2412	11.756	≤26	PASS
NTNV	11B	Ant1	2412	11.756	≤26	PASS
NTHV	11B	Ant1	2412	11.740	≤26	PASS
NTLV	11B	Ant1	2442	11.815	≤26	PASS
NTNV	11B	Ant1	2442	11.837	≤26	PASS
NTHV	11B	Ant1	2442	11.789	≤26	PASS
NTLV	11B	Ant1	2472	11.659	≤26	PASS
NTNV	11B	Ant1	2472	11.813	≤26	PASS
NTHV	11B	Ant1	2472	11.791	≤26	PASS
NTLV	11G	Ant1	2412	16.576	≤26	PASS
NTNV	11G	Ant1	2412	16.590	≤26	PASS
NTHV	11G	Ant1	2412	16.683	≤26	PASS
NTLV	11G	Ant1	2442	16.707	≤26	PASS
NTNV	11G	Ant1	2442	16.784	≤26	PASS
NTHV	11G	Ant1	2442	16.845	≤26	PASS
NTLV	11G	Ant1	2472	16.739	≤26	PASS
NTNV	11G	Ant1	2472	16.723	≤26	PASS
NTHV	11G	Ant1	2472	16.706	≤26	PASS
NTLV	11N20SISO	Ant1	2412	17.632	≤26	PASS
NTNV	11N20SISO	Ant1	2412	17.649	≤26	PASS
NTHV	11N20SISO	Ant1	2412	17.634	≤26	PASS
NTLV	11N20SISO	Ant1	2442	17.648	≤26	PASS
NTNV	11N20SISO	Ant1	2442	17.599	≤26	PASS
NTHV	11N20SISO	Ant1	2442	17.610	≤26	PASS
NTLV	11N20SISO	Ant1	2472	17.639	≤26	PASS
NTNV	11N20SISO	Ant1	2472	17.658	≤26	PASS
NTHV	11N20SISO	Ant1	2472	17.573	≤26	PASS
NTLV	11N40SISO	Ant1	2422	36.092	26-40	PASS
NTNV	11N40SISO	Ant1	2422	36.146	26-40	PASS
NTHV	11N40SISO	Ant1	2422	36.149	26-40	PASS
NTLV	11N40SISO	Ant1	2442	36.182	26-40	PASS
NTNV	11N40SISO	Ant1	2442	36.187	26-40	PASS
NTHV	11N40SISO	Ant1	2442	36.125	26-40	PASS
NTLV	11N40SISO	Ant1	2462	36.193	26-40	PASS
NTNV	11N40SISO	Ant1	2462	36.171	26-40	PASS
NTHV	11N40SISO	Ant1	2462	36.229	26-40	PASS

Test Graphs



NTLV-11B-Ant1-2412-PASS



NTNV-11B-Ant1-2412-PASS



NTHV-11B-Ant1-2412-PASS



NTLV-11B-Ant1-2442-PASS



NTVN-11B-Ant1-2442-PASS



NTHV-11B-Ant1-2442-PASS



NTLV-11B-Ant1-2472-PASS



NTNV-11B-Ant1-2472-PASS



NTHV-11B-Ant1-2472-PASS



NTLV-11G-Ant1-2412-PASS



NTNV-11G-Ant1-2412-PASS



NTHV-11G-Ant1-2412-PASS



NTLV-11G-Ant1-2442-PASS



NTNV-11G-Ant1-2442-PASS



NTHV-11G-Ant1-2442-PASS



NTLV-11G-Ant1-2472-PASS



NTNV-11G-Ant1-2472-PASS



NTHV-11G-Ant1-2472-PASS



NTLV-11N20SISO-Ant1-2412-PASS



NTNV-11N20SISO-Ant1-2412-PASS



NTHV-11N20SISO-Ant1-2412-PASS



NTLV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2442-PASS



NTHV-11N20SISO-Ant1-2442-PASS



NTLV-11N20SISO-Ant1-2472-PASS



NTNV-11N20SISO-Ant1-2472-PASS



NTHV-11N20SISO-Ant1-2472-PASS



NTLV-11N40SISO-Ant1-2422-PASS



NTNV-11N40SISO-Ant1-2422-PASS



NTHV-11N40SISO-Ant1-2422-PASS



NTLV-11N40SISO-Ant1-2442-PASS



NTNV-11N40SISO-Ant1-2442-PASS



NTHV-11N40SISO-Ant1-2442-PASS



NTLV-11N40SISO-Ant1-2462-PASS



NTNV-11N40SISO-Ant1-2462-PASS



NTHV-11N40SISO-Ant1-2462-PASS

Appendix B.4: Test Results of Spread Bandwidth (90%)

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	SpreadFactor	Limit	Verdict
NTLV	11B	Ant1	2412	8.170	≥0.5	5.942	>5	PASS
NTNV	11B	Ant1	2412	8.196	≥0.5	5.961	>5	PASS
NTHV	11B	Ant1	2412	8.156	≥0.5	5.932	>5	PASS
NTLV	11B	Ant1	2442	8.182	≥0.5	5.951	>5	PASS
NTNV	11B	Ant1	2442	8.147	≥0.5	5.925	>5	PASS
NTHV	11B	Ant1	2442	8.128	≥0.5	5.911	>5	PASS
NTLV	11B	Ant1	2472	8.206	≥0.5	5.968	>5	PASS
NTNV	11B	Ant1	2472	8.227	≥0.5	5.983	>5	PASS
NTHV	11B	Ant1	2472	8.235	≥0.5	5.989	>5	PASS
NTLV	11G	Ant1	2412	14.564	≥0.5	---	---	PASS
NTNV	11G	Ant1	2412	14.369	≥0.5	---	---	PASS
NTHV	11G	Ant1	2412	14.541	≥0.5	---	---	PASS
NTLV	11G	Ant1	2442	14.537	≥0.5	---	---	PASS
NTNV	11G	Ant1	2442	14.735	≥0.5	---	---	PASS
NTHV	11G	Ant1	2442	14.516	≥0.5	---	---	PASS
NTLV	11G	Ant1	2472	14.482	≥0.5	---	---	PASS
NTNV	11G	Ant1	2472	14.555	≥0.5	---	---	PASS
NTHV	11G	Ant1	2472	14.631	≥0.5	---	---	PASS
NTLV	11N20SISO	Ant1	2412	15.488	≥0.5	---	---	PASS
NTNV	11N20SISO	Ant1	2412	15.494	≥0.5	---	---	PASS
NTHV	11N20SISO	Ant1	2412	15.560	≥0.5	---	---	PASS
NTLV	11N20SISO	Ant1	2442	15.485	≥0.5	---	---	PASS
NTNV	11N20SISO	Ant1	2442	15.271	≥0.5	---	---	PASS
NTHV	11N20SISO	Ant1	2442	15.606	≥0.5	---	---	PASS
NTLV	11N20SISO	Ant1	2472	15.509	≥0.5	---	---	PASS
NTNV	11N20SISO	Ant1	2472	15.469	≥0.5	---	---	PASS
NTHV	11N20SISO	Ant1	2472	15.297	≥0.5	---	---	PASS
NTLV	11N40SISO	Ant1	2422	32.066	≥0.5	---	---	PASS
NTNV	11N40SISO	Ant1	2422	31.829	≥0.5	---	---	PASS
NTHV	11N40SISO	Ant1	2422	32.345	≥0.5	---	---	PASS
NTLV	11N40SISO	Ant1	2442	32.249	≥0.5	---	---	PASS
NTNV	11N40SISO	Ant1	2442	32.250	≥0.5	---	---	PASS
NTHV	11N40SISO	Ant1	2442	32.167	≥0.5	---	---	PASS
NTLV	11N40SISO	Ant1	2462	31.698	≥0.5	---	---	PASS
NTNV	11N40SISO	Ant1	2462	32.218	≥0.5	---	---	PASS
NTHV	11N40SISO	Ant1	2462	31.662	≥0.5	---	---	PASS

Test Graphs



NTLV-11B-Ant1-2412-PASS



NTNV-11B-Ant1-2412-PASS



NTHV-11B-Ant1-2412-PASS



NTLV-11B-Ant1-2442-PASS



NTNV-11B-Ant1-2442-PASS



NTHV-11B-Ant1-2442-PASS



NTLV-11B-Ant1-2472-PASS



NTNV-11B-Ant1-2472-PASS



NTHV-11B-Ant1-2472-PASS



NTLV-11G-Ant1-2412-PASS



NTNV-11G-Ant1-2412-PASS



NTHV-11G-Ant1-2412-PASS



NTLV-11G-Ant1-2442-PASS



NTNV-11G-Ant1-2442-PASS



NTHV-11G-Ant1-2442-PASS



NTLV-11G-Ant1-2472-PASS



NTNV-11G-Ant1-2472-PASS



NTHV-11G-Ant1-2472-PASS



NTLV-11N20SISO-Ant1-2412-PASS



NTNV-11N20SISO-Ant1-2412-PASS



NTHV-11N20SISO-Ant1-2412-PASS



NTLV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2442-PASS



NTHV-11N20SISO-Ant1-2442-PASS



NTLV-11N20SISO-Ant1-2472-PASS



NTNV-11N20SISO-Ant1-2472-PASS



NTHV-11N20SISO-Ant1-2472-PASS



NTLV-11N40SISO-Ant1-2422-PASS



NTNV-11N40SISO-Ant1-2422-PASS



NTHV-11N40SISO-Ant1-2422-PASS



NTLV-11N40SISO-Ant1-2442-PASS



NTNV-11N40SISO-Ant1-2442-PASS



NTHV-11N40SISO-Ant1-2442-PASS



NTLV-11N40SISO-Ant1-2462-PASS



NTNV-11N40SISO-Ant1-2462-PASS



NTHV-11N40SISO-Ant1-2462-PASS

Appendix B.5: Test Results of Spurious Emissions for Transmitter

Test Result

Test Condition	Test Mode	Antenn a	Frequency [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTLV	11B	Ant1	2412	30~500	-50.07	≤-26	0.00984	≤2.5	PASS
NTNV	11B	Ant1	2412	30~500	-49.36	≤-26	0.01159	≤2.5	PASS
NTHV	11B	Ant1	2412	30~500	-49.10	≤-26	0.01230	≤2.5	PASS
NTLV	11B	Ant1	2412	500~1000	-48.94	≤-26	0.01276	≤2.5	PASS
NTNV	11B	Ant1	2412	500~1000	-49.01	≤-26	0.01256	≤2.5	PASS
NTHV	11B	Ant1	2412	500~1000	-48.67	≤-26	0.01358	≤2.5	PASS
NTLV	11B	Ant1	2412	1000~2387	-38.39	≤-26	0.14488	≤2.5	PASS
NTNV	11B	Ant1	2412	1000~2387	-41.37	≤-26	0.07295	≤2.5	PASS
NTHV	11B	Ant1	2412	1000~2387	-40.86	≤-26	0.08204	≤2.5	PASS
NTLV	11B	Ant1	2412	2387~2400	-29.32	≤-16	1.16950	≤25	PASS
NTNV	11B	Ant1	2412	2387~2400	-29.26	≤-16	1.18577	≤25	PASS
NTHV	11B	Ant1	2412	2387~2400	-29.09	≤-16	1.23310	≤25	PASS
NTLV	11B	Ant1	2412	2483.5~2496.5	-34.88	≤-16	0.32509	≤25	PASS
NTNV	11B	Ant1	2412	2483.5~2496.5	-34.85	≤-16	0.32734	≤25	PASS
NTHV	11B	Ant1	2412	2483.5~2496.5	-34.80	≤-16	0.33113	≤25	PASS
NTLV	11B	Ant1	2412	2496.5~13000	-42.89	≤-26	0.05140	≤2.5	PASS
NTNV	11B	Ant1	2412	2496.5~13000	-42.81	≤-26	0.05236	≤2.5	PASS
NTHV	11B	Ant1	2412	2496.5~13000	-43.15	≤-26	0.04842	≤2.5	PASS
NTLV	11B	Ant1	2442	30~500	-49.49	≤-26	0.01125	≤2.5	PASS
NTNV	11B	Ant1	2442	30~500	-49.47	≤-26	0.01130	≤2.5	PASS
NTHV	11B	Ant1	2442	30~500	-49.89	≤-26	0.01026	≤2.5	PASS
NTLV	11B	Ant1	2442	500~1000	-48.77	≤-26	0.01327	≤2.5	PASS
NTNV	11B	Ant1	2442	500~1000	-49.11	≤-26	0.01227	≤2.5	PASS
NTHV	11B	Ant1	2442	500~1000	-48.86	≤-26	0.01300	≤2.5	PASS
NTLV	11B	Ant1	2442	1000~2387	-46.00	≤-26	0.02512	≤2.5	PASS
NTNV	11B	Ant1	2442	1000~2387	-46.05	≤-26	0.02483	≤2.5	PASS
NTHV	11B	Ant1	2442	1000~2387	-44.02	≤-26	0.03963	≤2.5	PASS
NTLV	11B	Ant1	2442	2387~2400	-34.64	≤-16	0.34356	≤25	PASS
NTNV	11B	Ant1	2442	2387~2400	-34.56	≤-16	0.34995	≤25	PASS
NTHV	11B	Ant1	2442	2387~2400	-34.58	≤-16	0.34834	≤25	PASS
NTLV	11B	Ant1	2442	2483.5~2496.5	-30.26	≤-16	0.94189	≤25	PASS
NTNV	11B	Ant1	2442	2483.5~2496.5	-30.46	≤-16	0.89950	≤25	PASS
NTHV	11B	Ant1	2442	2483.5~2496.5	-30.14	≤-16	0.96828	≤25	PASS
NTLV	11B	Ant1	2442	2496.5~13000	-42.52	≤-26	0.05598	≤2.5	PASS
NTNV	11B	Ant1	2442	2496.5~13000	-41.43	≤-26	0.07194	≤2.5	PASS
NTHV	11B	Ant1	2442	2496.5~13000	-41.19	≤-26	0.07603	≤2.5	PASS
NTLV	11B	Ant1	2472	30~500	-49.26	≤-26	0.01186	≤2.5	PASS
NTNV	11B	Ant1	2472	30~500	-49.78	≤-26	0.01052	≤2.5	PASS
NTHV	11B	Ant1	2472	30~500	-49.34	≤-26	0.01164	≤2.5	PASS
NTLV	11B	Ant1	2472	500~1000	-49.30	≤-26	0.01175	≤2.5	PASS
NTNV	11B	Ant1	2472	500~1000	-48.65	≤-26	0.01365	≤2.5	PASS
NTHV	11B	Ant1	2472	500~1000	-49.39	≤-26	0.01151	≤2.5	PASS
NTLV	11B	Ant1	2472	1000~2387	-46.40	≤-26	0.02291	≤2.5	PASS
NTNV	11B	Ant1	2472	1000~2387	-46.40	≤-26	0.02291	≤2.5	PASS
NTHV	11B	Ant1	2472	1000~2387	-46.44	≤-26	0.02270	≤2.5	PASS
NTLV	11B	Ant1	2472	2387~2400	-35.10	≤-16	0.30903	≤25	PASS
NTNV	11B	Ant1	2472	2387~2400	-34.75	≤-16	0.33497	≤25	PASS
NTHV	11B	Ant1	2472	2387~2400	-34.85	≤-16	0.32734	≤25	PASS
NTLV	11B	Ant1	2472	2483.5~2496.5	-25.43	≤-16	2.86418	≤25	PASS
NTNV	11B	Ant1	2472	2483.5~2496.5	-24.64	≤-16	3.43558	≤25	PASS
NTHV	11B	Ant1	2472	2483.5~2496.5	-24.93	≤-16	3.21366	≤25	PASS
NTLV	11B	Ant1	2472	2496.5~13000	-35.18	≤-26	0.30339	≤2.5	PASS
NTNV	11B	Ant1	2472	2496.5~13000	-33.53	≤-26	0.44361	≤2.5	PASS
NTHV	11B	Ant1	2472	2496.5~13000	-40.93	≤-26	0.08072	≤2.5	PASS
NTLV	11G	Ant1	2412	30~500	-45.68	≤-26	0.02704	≤2.5	PASS
NTNV	11G	Ant1	2412	30~500	-45.30	≤-26	0.02951	≤2.5	PASS
NTHV	11G	Ant1	2412	30~500	-45.08	≤-26	0.03105	≤2.5	PASS

NTLV	11G	Ant1	2412	500~1000	-45.51	≤-26	0.02812	≤2.5	PASS
NTNV	11G	Ant1	2412	500~1000	-44.77	≤-26	0.03334	≤2.5	PASS
NTHV	11G	Ant1	2412	500~1000	-44.30	≤-26	0.03715	≤2.5	PASS
NTNV	11G	Ant1	2412	1000~2387	-24.21	≤-26	3.79315	≤2.5	See table below
NTLV	11G	Ant1	2412	1000~2387	-26.24	≤-26	2.37684	≤2.5	See table below
NTHV	11G	Ant1	2412	1000~2387	-23.89	≤-26	4.08319	≤2.5	See table below
NTLV	11G	Ant1	2412	2387~2400	-32.11	≤-16	0.61518	≤25	PASS
NTNV	11G	Ant1	2412	2387~2400	-31.78	≤-16	0.66374	≤25	PASS
NTHV	11G	Ant1	2412	2387~2400	-31.84	≤-16	0.65464	≤25	PASS
NTLV	11G	Ant1	2412	2483.5~2496.5	-31.77	≤-16	0.66527	≤25	PASS
NTNV	11G	Ant1	2412	2483.5~2496.5	-31.43	≤-16	0.71945	≤25	PASS
NTHV	11G	Ant1	2412	2483.5~2496.5	-31.60	≤-16	0.69183	≤25	PASS
NTLV	11G	Ant1	2412	2496.5~13000	-38.77	≤-26	0.13274	≤2.5	PASS
NTNV	11G	Ant1	2412	2496.5~13000	-38.52	≤-26	0.14060	≤2.5	PASS
NTHV	11G	Ant1	2412	2496.5~13000	-38.20	≤-26	0.15136	≤2.5	PASS
NTLV	11G	Ant1	2442	30~500	-50.21	≤-26	0.00953	≤2.5	PASS
NTNV	11G	Ant1	2442	30~500	-49.71	≤-26	0.01069	≤2.5	PASS
NTHV	11G	Ant1	2442	30~500	-49.75	≤-26	0.01059	≤2.5	PASS
NTLV	11G	Ant1	2442	500~1000	-49.10	≤-26	0.01230	≤2.5	PASS
NTNV	11G	Ant1	2442	500~1000	-49.34	≤-26	0.01164	≤2.5	PASS
NTHV	11G	Ant1	2442	500~1000	-49.15	≤-26	0.01216	≤2.5	PASS
NTLV	11G	Ant1	2442	1000~2387	-41.94	≤-26	0.06397	≤2.5	PASS
NTNV	11G	Ant1	2442	1000~2387	-42.25	≤-26	0.05957	≤2.5	PASS
NTHV	11G	Ant1	2442	1000~2387	-42.93	≤-26	0.05093	≤2.5	PASS
NTLV	11G	Ant1	2442	2387~2400	-31.13	≤-16	0.77090	≤25	PASS
NTNV	11G	Ant1	2442	2387~2400	-30.95	≤-16	0.80353	≤25	PASS
NTHV	11G	Ant1	2442	2387~2400	-31.30	≤-16	0.74131	≤25	PASS
NTLV	11G	Ant1	2442	2483.5~2496.5	-26.82	≤-16	2.07970	≤25	PASS
NTNV	11G	Ant1	2442	2483.5~2496.5	-26.93	≤-16	2.02768	≤25	PASS
NTHV	11G	Ant1	2442	2483.5~2496.5	-27.21	≤-16	1.90108	≤25	PASS
NTLV	11G	Ant1	2442	2496.5~13000	-39.85	≤-26	0.10351	≤2.5	PASS
NTNV	11G	Ant1	2442	2496.5~13000	-39.50	≤-26	0.11220	≤2.5	PASS
NTHV	11G	Ant1	2442	2496.5~13000	-38.38	≤-26	0.14521	≤2.5	PASS
NTNV	11G	Ant1	2472	30~500	-45.27	≤-26	0.02972	≤2.5	PASS
NTLV	11G	Ant1	2472	30~500	-45.67	≤-26	0.02710	≤2.5	PASS
NTHV	11G	Ant1	2472	30~500	-45.48	≤-26	0.02831	≤2.5	PASS
NTNV	11G	Ant1	2472	500~1000	-45.20	≤-26	0.03020	≤2.5	PASS
NTHV	11G	Ant1	2472	500~1000	-43.97	≤-26	0.04009	≤2.5	PASS
NTLV	11G	Ant1	2472	500~1000	-44.63	≤-26	0.03443	≤2.5	PASS
NTLV	11G	Ant1	2472	1000~2387	-42.69	≤-26	0.05383	≤2.5	PASS
NTNV	11G	Ant1	2472	1000~2387	-42.32	≤-26	0.05861	≤2.5	PASS
NTHV	11G	Ant1	2472	1000~2387	-42.81	≤-26	0.05236	≤2.5	PASS
NTLV	11G	Ant1	2472	2387~2400	-32.39	≤-16	0.57677	≤25	PASS
NTNV	11G	Ant1	2472	2387~2400	-32.09	≤-16	0.61802	≤25	PASS
NTHV	11G	Ant1	2472	2387~2400	-31.77	≤-16	0.66527	≤25	PASS
NTNV	11G	Ant1	2472	2483.5~2496.5	-3.89	≤-16	408.31939	≤25	See table below
NTHV	11G	Ant1	2472	2483.5~2496.5	-3.84	≤-16	413.04750	≤25	See table below
NTLV	11G	Ant1	2472	2483.5~2496.5	-5.82	≤-16	261.81830	≤25	See table below
NTNV	11G	Ant1	2472	2496.5~13000	-31.69	≤-26	0.67764	≤2.5	PASS
NTHV	11G	Ant1	2472	2496.5~13000	-33.20	≤-26	0.47863	≤2.5	PASS
NTLV	11G	Ant1	2472	2496.5~13000	-32.89	≤-26	0.51404	≤2.5	PASS
NTHV	11N20SISO	Ant1	2412	30~500	-45.60	≤-26	0.02754	≤2.5	PASS

Appendix B



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NTLV	11N20SISO	Ant1	2412	30~500	-45.71	≤-26	0.02685	≤2.5	PASS
NTNV	11N20SISO	Ant1	2412	30~500	-45.39	≤-26	0.02891	≤2.5	PASS
NTHV	11N20SISO	Ant1	2412	500~1000	-44.52	≤-26	0.03532	≤2.5	PASS
NTLV	11N20SISO	Ant1	2412	500~1000	-44.80	≤-26	0.03311	≤2.5	PASS
NTNV	11N20SISO	Ant1	2412	500~1000	-44.86	≤-26	0.03266	≤2.5	PASS
NTHV	11N20SISO	Ant1	2412	1000~2387	-22.48	≤-26	5.64937	≤2.5	See table below
NTLV	11N20SISO	Ant1	2412	1000~2387	-21.85	≤-26	6.53131	≤2.5	See table below
NTNV	11N20SISO	Ant1	2412	1000~2387	-21.35	≤-26	7.32825	≤2.5	See table below
NTLV	11N20SISO	Ant1	2412	2387~2400	-10.48	≤-16	89.53648	≤25	See table below
NTNV	11N20SISO	Ant1	2412	2387~2400	-10.70	≤-16	85.11380	≤25	See table below
NTHV	11N20SISO	Ant1	2412	2387~2400	-8.98	≤-16	126.47363	≤25	See table below
NTHV	11N20SISO	Ant1	2412	2483.5~2496.5	-31.99	≤-16	0.63241	≤25	PASS
NTLV	11N20SISO	Ant1	2412	2483.5~2496.5	-32.03	≤-16	0.62661	≤25	PASS
NTNV	11N20SISO	Ant1	2412	2483.5~2496.5	-31.92	≤-16	0.64269	≤25	PASS
NTHV	11N20SISO	Ant1	2412	2496.5~13000	-38.84	≤-26	0.13062	≤2.5	PASS
NTLV	11N20SISO	Ant1	2412	2496.5~13000	-38.70	≤-26	0.13490	≤2.5	PASS
NTNV	11N20SISO	Ant1	2412	2496.5~13000	-39.41	≤-26	0.11455	≤2.5	PASS
NTLV	11N20SISO	Ant1	2442	30~500	-44.96	≤-26	0.03192	≤2.5	PASS
NTNV	11N20SISO	Ant1	2442	30~500	-44.80	≤-26	0.03311	≤2.5	PASS
NTHV	11N20SISO	Ant1	2442	30~500	-45.25	≤-26	0.02985	≤2.5	PASS
NTLV	11N20SISO	Ant1	2442	500~1000	-45.05	≤-26	0.03126	≤2.5	PASS
NTNV	11N20SISO	Ant1	2442	500~1000	-44.54	≤-26	0.03516	≤2.5	PASS
NTHV	11N20SISO	Ant1	2442	500~1000	-44.38	≤-26	0.03648	≤2.5	PASS
NTLV	11N20SISO	Ant1	2442	1000~2387	-41.83	≤-26	0.06561	≤2.5	PASS
NTNV	11N20SISO	Ant1	2442	1000~2387	-41.65	≤-26	0.06839	≤2.5	PASS
NTHV	11N20SISO	Ant1	2442	1000~2387	-41.21	≤-26	0.07568	≤2.5	PASS
NTLV	11N20SISO	Ant1	2442	2387~2400	-29.97	≤-16	1.00693	≤25	PASS
NTNV	11N20SISO	Ant1	2442	2387~2400	-29.90	≤-16	1.02329	≤25	PASS
NTHV	11N20SISO	Ant1	2442	2387~2400	-30.17	≤-16	0.96161	≤25	PASS
NTLV	11N20SISO	Ant1	2442	2483.5~2496.5	-23.43	≤-16	4.53942	≤25	PASS
NTNV	11N20SISO	Ant1	2442	2483.5~2496.5	-23.01	≤-16	5.00035	≤25	PASS
NTHV	11N20SISO	Ant1	2442	2483.5~2496.5	-23.87	≤-16	4.10204	≤25	PASS
NTLV	11N20SISO	Ant1	2442	2496.5~13000	-33.26	≤-26	0.47206	≤2.5	PASS
NTNV	11N20SISO	Ant1	2442	2496.5~13000	-37.05	≤-26	0.19724	≤2.5	PASS
NTHV	11N20SISO	Ant1	2442	2496.5~13000	-36.57	≤-26	0.22029	≤2.5	PASS
NTLV	11N20SISO	Ant1	2472	30~500	-45.78	≤-26	0.02642	≤2.5	PASS
NTNV	11N20SISO	Ant1	2472	30~500	-45.12	≤-26	0.03076	≤2.5	PASS
NTHV	11N20SISO	Ant1	2472	30~500	-45.54	≤-26	0.02793	≤2.5	PASS
NTLV	11N20SISO	Ant1	2472	500~1000	-44.55	≤-26	0.03508	≤2.5	PASS
NTNV	11N20SISO	Ant1	2472	500~1000	-44.82	≤-26	0.03296	≤2.5	PASS
NTHV	11N20SISO	Ant1	2472	500~1000	-44.64	≤-26	0.03436	≤2.5	PASS
NTLV	11N20SISO	Ant1	2472	1000~2387	-42.31	≤-26	0.05875	≤2.5	PASS
NTHV	11N20SISO	Ant1	2472	1000~2387	-42.73	≤-26	0.05333	≤2.5	PASS
NTNV	11N20SISO	Ant1	2472	1000~2387	-41.80	≤-26	0.06607	≤2.5	PASS
NTLV	11N20SISO	Ant1	2472	2387~2400	-32.14	≤-16	0.61094	≤25	PASS
NTHV	11N20SISO	Ant1	2472	2387~2400	-31.61	≤-16	0.69024	≤25	PASS
NTNV	11N20SISO	Ant1	2472	2387~2400	-32.31	≤-16	0.58749	≤25	PASS
NTLV	11N20SISO	Ant1	2472	2483.5~2496.5	-3.86	≤-16	411.14972	≤25	See table below
NTHV	11N20SISO	Ant1	2472	2483.5~2496.5	-3.88	≤-16	409.26066	≤25	See table

									below
NTNV	11N20SISO	Ant1	2472	2483.5~2496.5	-3.81	≤-16	415.91061	≤25	See table below
NTLV	11N20SISO	Ant1	2472	2496.5~13000	-31.87	≤-26	0.65013	≤2.5	PASS
NTHV	11N20SISO	Ant1	2472	2496.5~13000	-30.42	≤-26	0.90782	≤2.5	PASS
NTNV	11N20SISO	Ant1	2472	2496.5~13000	-31.92	≤-26	0.64269	≤2.5	PASS
NTLV	11N40SISO	Ant1	2422	30~500	-45.14	≤-26	0.03062	≤2.5	PASS
NTNV	11N40SISO	Ant1	2422	30~500	-45.69	≤-26	0.02698	≤2.5	PASS
NTHV	11N40SISO	Ant1	2422	30~500	-45.97	≤-26	0.02529	≤2.5	PASS
NTLV	11N40SISO	Ant1	2422	500~1000	-44.56	≤-26	0.03499	≤2.5	PASS
NTHV	11N40SISO	Ant1	2422	500~1000	-44.65	≤-26	0.03428	≤2.5	PASS
NTNV	11N40SISO	Ant1	2422	500~1000	-45.11	≤-26	0.03083	≤2.5	PASS
NTLV	11N40SISO	Ant1	2422	1000~2387	-18.70	≤-26	13.48963	≤2.5	See table below
NTNV	11N40SISO	Ant1	2422	1000~2387	-17.72	≤-26	16.90441	≤2.5	See table below
NTHV	11N40SISO	Ant1	2422	1000~2387	-19.99	≤-26	10.02305	≤2.5	See table below
NTLV	11N40SISO	Ant1	2422	2387~2400	-16.73	≤-16	21.23244	≤25	See table below
NTNV	11N40SISO	Ant1	2422	2387~2400	-16.55	≤-16	22.13095	≤25	See table below
NTHV	11N40SISO	Ant1	2422	2387~2400	-16.88	≤-16	20.51162	≤25	See table below
NTLV	11N40SISO	Ant1	2422	2483.5~2496.5	-29.79	≤-16	1.04954	≤25	PASS
NTNV	11N40SISO	Ant1	2422	2483.5~2496.5	-30.11	≤-16	0.97499	≤25	PASS
NTHV	11N40SISO	Ant1	2422	2483.5~2496.5	-29.90	≤-16	1.02329	≤25	PASS
NTLV	11N40SISO	Ant1	2422	2496.5~13000	-38.72	≤-26	0.13428	≤2.5	PASS
NTNV	11N40SISO	Ant1	2422	2496.5~13000	-38.67	≤-26	0.13583	≤2.5	PASS
NTHV	11N40SISO	Ant1	2422	2496.5~13000	-38.86	≤-26	0.13002	≤2.5	PASS
NTLV	11N40SISO	Ant1	2442	30~500	-45.43	≤-26	0.02864	≤2.5	PASS
NTNV	11N40SISO	Ant1	2442	30~500	-44.91	≤-26	0.03228	≤2.5	PASS
NTHV	11N40SISO	Ant1	2442	30~500	-44.97	≤-26	0.03184	≤2.5	PASS
NTLV	11N40SISO	Ant1	2442	500~1000	-44.15	≤-26	0.03846	≤2.5	PASS
NTNV	11N40SISO	Ant1	2442	500~1000	-45.15	≤-26	0.03055	≤2.5	PASS
NTHV	11N40SISO	Ant1	2442	500~1000	-44.14	≤-26	0.03855	≤2.5	PASS
NTLV	11N40SISO	Ant1	2442	1000~2387	-33.69	≤-26	0.42756	≤2.5	PASS
NTNV	11N40SISO	Ant1	2442	1000~2387	-33.13	≤-26	0.48641	≤2.5	PASS
NTHV	11N40SISO	Ant1	2442	1000~2387	-32.48	≤-26	0.56494	≤2.5	PASS
NTLV	11N40SISO	Ant1	2442	2387~2400	-17.63	≤-16	17.25838	≤25	See table below
NTNV	11N40SISO	Ant1	2442	2387~2400	-17.79	≤-16	16.63413	≤25	See table below
NTHV	11N40SISO	Ant1	2442	2387~2400	-17.73	≤-16	16.86553	≤25	See table below
NTLV	11N40SISO	Ant1	2442	2483.5~2496.5	-32.16	≤-16	0.60814	≤25	PASS
NTNV	11N40SISO	Ant1	2442	2483.5~2496.5	-30.89	≤-16	0.81470	≤25	PASS
NTHV	11N40SISO	Ant1	2442	2483.5~2496.5	-31.69	≤-16	0.67764	≤25	PASS
NTLV	11N40SISO	Ant1	2442	2496.5~13000	-39.35	≤-26	0.11614	≤2.5	PASS
NTNV	11N40SISO	Ant1	2442	2496.5~13000	-38.84	≤-26	0.13062	≤2.5	PASS
NTHV	11N40SISO	Ant1	2442	2496.5~13000	-38.96	≤-26	0.12706	≤2.5	PASS
NTLV	11N40SISO	Ant1	2462	30~500	-45.70	≤-26	0.02692	≤2.5	PASS
NTNV	11N40SISO	Ant1	2462	30~500	-45.65	≤-26	0.02723	≤2.5	PASS
NTHV	11N40SISO	Ant1	2462	30~500	-46.15	≤-26	0.02427	≤2.5	PASS



NTLV	11N40SISO	Ant1	2462	500~1000	-45.11	≤-26	0.03083	≤2.5	PASS
NTNV	11N40SISO	Ant1	2462	500~1000	-44.86	≤-26	0.03266	≤2.5	PASS
NTHV	11N40SISO	Ant1	2462	500~1000	-44.67	≤-26	0.03412	≤2.5	PASS
NTLV	11N40SISO	Ant1	2462	1000~2387	-39.18	≤-26	0.12078	≤2.5	PASS
NTNV	11N40SISO	Ant1	2462	1000~2387	-38.91	≤-26	0.12853	≤2.5	PASS
NTHV	11N40SISO	Ant1	2462	1000~2387	-39.90	≤-26	0.10233	≤2.5	PASS
NTHV	11N40SISO	Ant1	2462	2387~2400	-30.50	≤-16	0.89125	≤25	PASS
NTLV	11N40SISO	Ant1	2462	2387~2400	-30.06	≤-16	0.98628	≤25	PASS
NTNV	11N40SISO	Ant1	2462	2387~2400	-30.42	≤-16	0.90782	≤25	PASS
NTLV	11N40SISO	Ant1	2462	2483.5~2496.5	-6.42	≤-16	228.03421	≤25	See table below
NTNV	11N40SISO	Ant1	2462	2483.5~2496.5	-6.58	≤-16	219.78599	≤25	See table below
NTHV	11N40SISO	Ant1	2462	2483.5~2496.5	-6.51	≤-16	223.35722	≤25	See table below
NTLV	11N40SISO	Ant1	2462	2496.5~13000	-20.71	≤-26	8.49180	≤2.5	See table below
NTNV	11N40SISO	Ant1	2462	2496.5~13000	-21.17	≤-26	7.63836	≤2.5	See table below
NTHV	11N40SISO	Ant1	2462	2496.5~13000	-21.71	≤-26	6.74528	≤2.5	See table below

Test Result_Step2

Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq. [MHz]	Result [dBm]	Gain [dBi]	EIRP Result [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11G	Ant1	2412	1000~2387	-49.11	0	-49.11	0.01227	≤2.5	PASS
NTHV	11G	Ant1	2412	1000~2387	-49.11	0	-49.11	0.01227	≤2.5	PASS
NTNV	11G	Ant1	2472	2483.5~2496.5	-23.26	0	-23.26	4.72063	≤25	PASS
NTLV	11G	Ant1	2472	2483.5~2496.5	-24.02	0	-24.02	3.96278	≤25	PASS
NTHV	11G	Ant1	2472	2483.5~2496.5	-22.39	0	-22.39	5.76766	≤25	PASS
NTLV	11N20SISO	Ant1	2412	1000~2387	-34.63	0	-34.63	0.34435	≤2.5	PASS
NTNV	11N20SISO	Ant1	2412	1000~2387	-34.92	0	-34.92	0.32211	≤2.5	PASS
NTHV	11N20SISO	Ant1	2412	1000~2387	-35.55	0	-35.55	0.27861	≤2.5	PASS
NTLV	11N20SISO	Ant1	2412	2387~2400	-21.39	0	-21.39	7.26106	≤25	PASS
NTNV	11N20SISO	Ant1	2412	2387~2400	-21.36	0	-21.36	7.31139	≤25	PASS
NTHV	11N20SISO	Ant1	2412	2387~2400	-21.31	0	-21.31	7.39605	≤25	PASS
NTLV	11N20SISO	Ant1	2472	2483.5~2496.5	-22.21	0	-22.21	6.01174	≤25	PASS
NTNV	11N20SISO	Ant1	2472	2483.5~2496.5	-21.69	0	-21.69	6.77642	≤25	PASS
NTHV	11N20SISO	Ant1	2472	2483.5~2496.5	-19.97	0	-19.97	10.06932	≤25	PASS
NTLV	11N40SISO	Ant1	2422	1000~2387	-32.04	0	-32.04	0.62517	≤2.5	PASS
NTNV	11N40SISO	Ant1	2422	1000~2387	-32.61	0	-32.61	0.54828	≤2.5	PASS
NTHV	11N40SISO	Ant1	2422	1000~2387	-32.34	0	-32.34	0.58345	≤2.5	PASS
NTLV	11N40SISO	Ant1	2422	2387~2400	-26.15	0	-26.15	2.42661	≤25	PASS
NTNV	11N40SISO	Ant1	2422	2387~2400	-25.65	0	-25.65	2.72270	≤25	PASS
NTHV	11N40SISO	Ant1	2422	2387~2400	-25.00	0	-25.00	3.16228	≤25	PASS
NTLV	11N40SISO	Ant1	2442	2387~2400	-49.23	0	-49.23	0.01194	≤25	PASS
NTNV	11N40SISO	Ant1	2442	2387~2400	-49.21	0	-49.21	0.01199	≤25	PASS
NTHV	11N40SISO	Ant1	2442	2387~2400	-49.20	0	-49.20	0.01202	≤25	PASS
NTLV	11N40SISO	Ant1	2462	2483.5~2496.5	-21.41	0	-21.41	7.22770	≤25	PASS
NTNV	11N40SISO	Ant1	2462	2483.5~2496.5	-21.37	0	-21.37	7.29458	≤25	PASS
NTHV	11N40SISO	Ant1	2462	2483.5~2496.5	-21.37	0	-21.37	7.29458	≤25	PASS
NTHV	11N40SISO	Ant1	2462	2496.5~13000	-26.66	0	-26.66	2.15774	≤2.5	PASS
NTLV	11N40SISO	Ant1	2462	2496.5~13000	-26.77	0	-26.77	2.10378	≤2.5	PASS
NTNV	11N40SISO	Ant1	2462	2496.5~13000	-26.61	0	-26.61	2.18273	≤2.5	PASS

Test Graphs



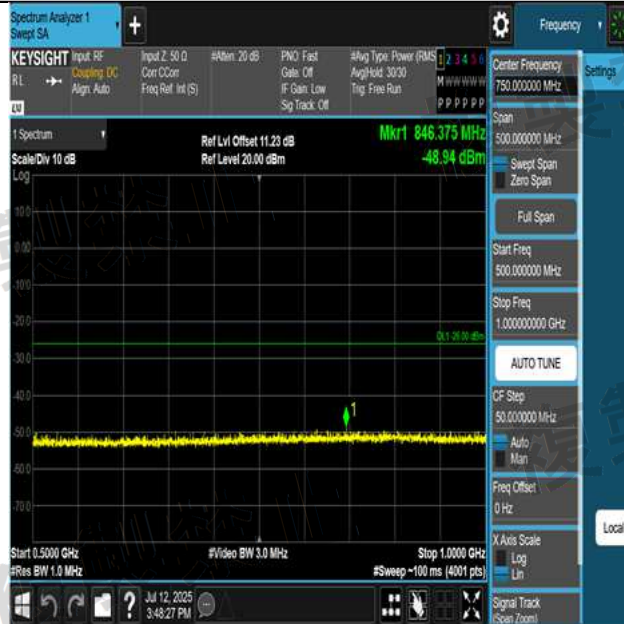
NTLV-11B-Ant1-2412-30~500-PASS



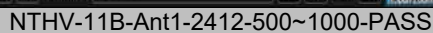
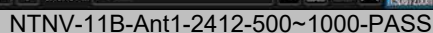
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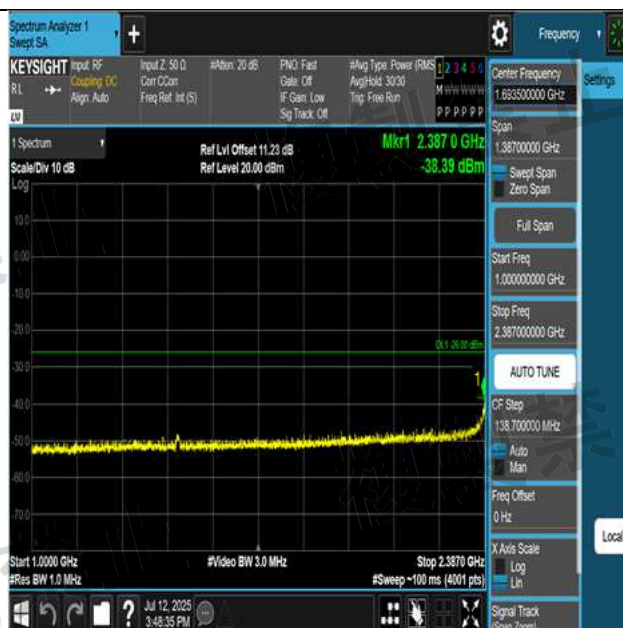


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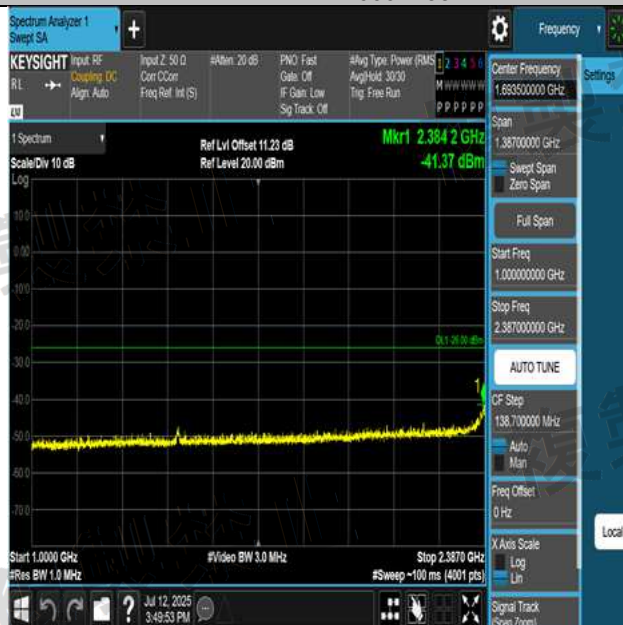


NTLV-11B-Ant1-2412-500~1000-PASS

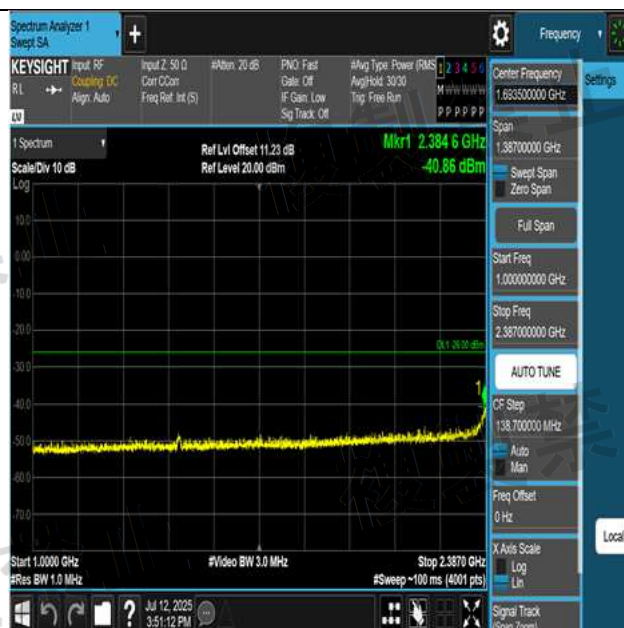




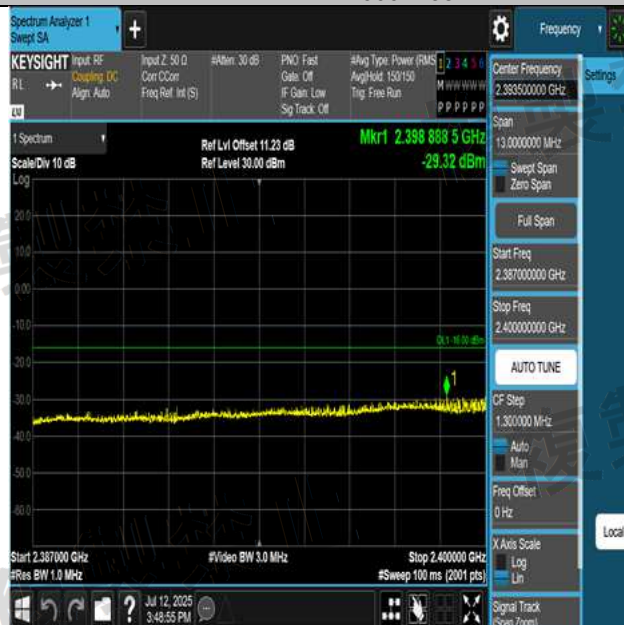
NTLV-11B-Ant1-2412-1000~2387-PASS



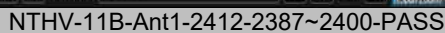
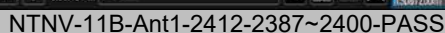
NTNV-11B-Ant1-2412-1000~2387-PASS



NTHV-11B-Ant1-2412-1000~2387-PASS

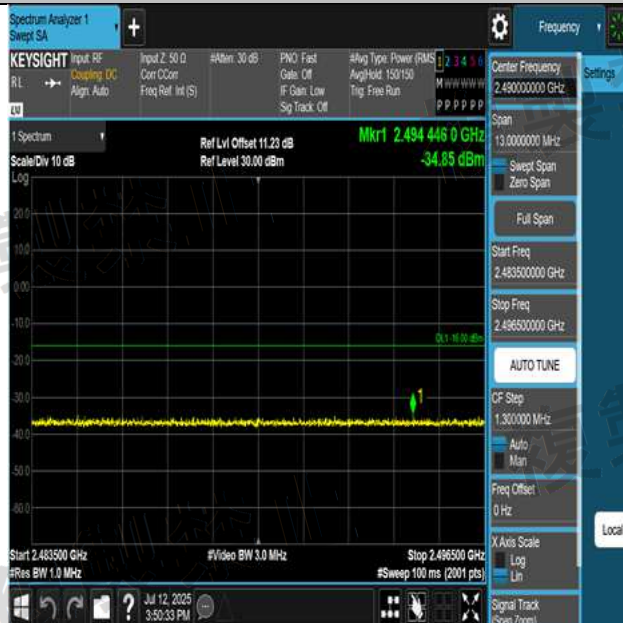


NTLV-11B-Ant1-2412-2387~2400-PASS





NTLV-11B-Ant1-2412-2483.5~2496.5-PASS



NTNV-11B-Ant1-2412-2483.5~2496.5-PASS

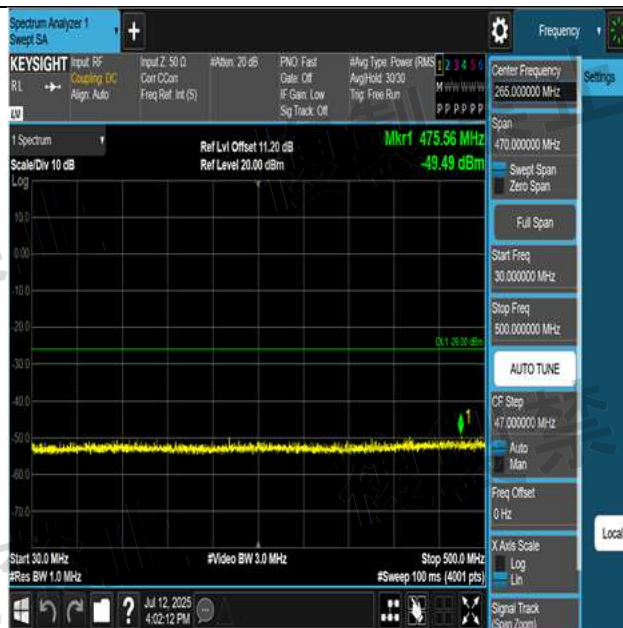


NTHV-11B-Ant1-2412-2483.5~2496.5-PASS



NTLV-11B-Ant1-2412-2496.5~13000-PASS

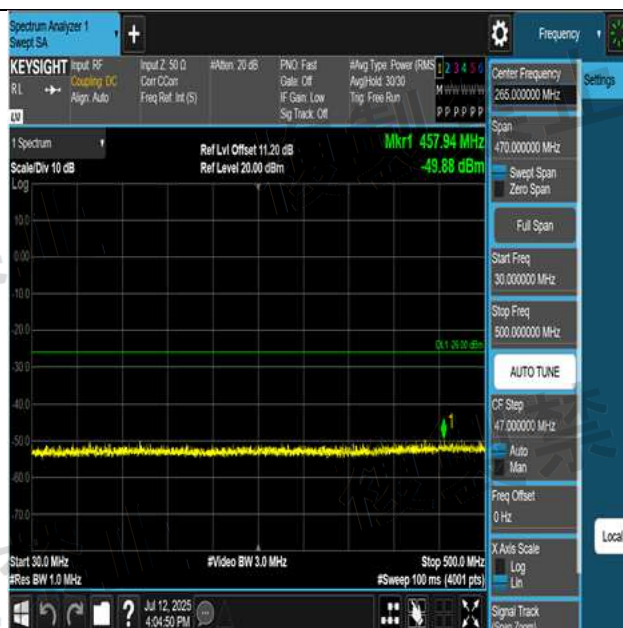




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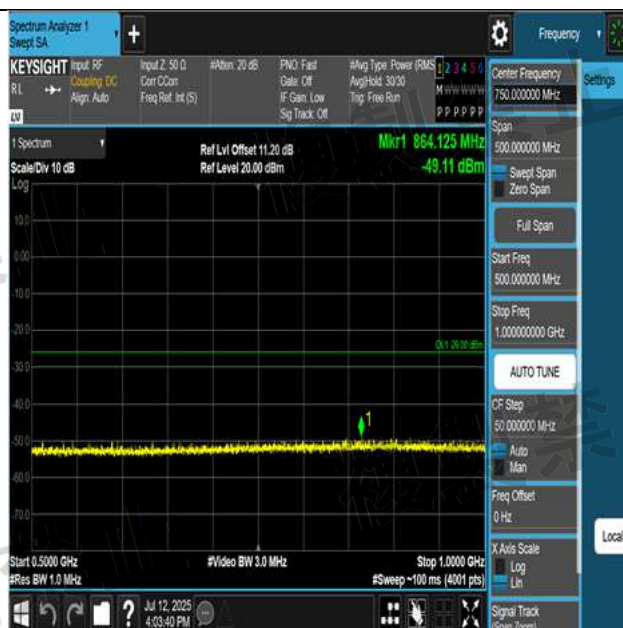
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NTHV-11B-Ant1-2442-30~500-PASS



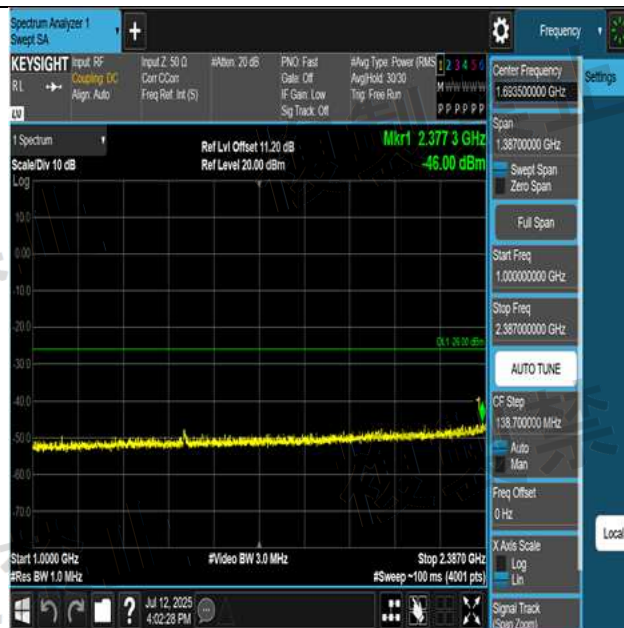
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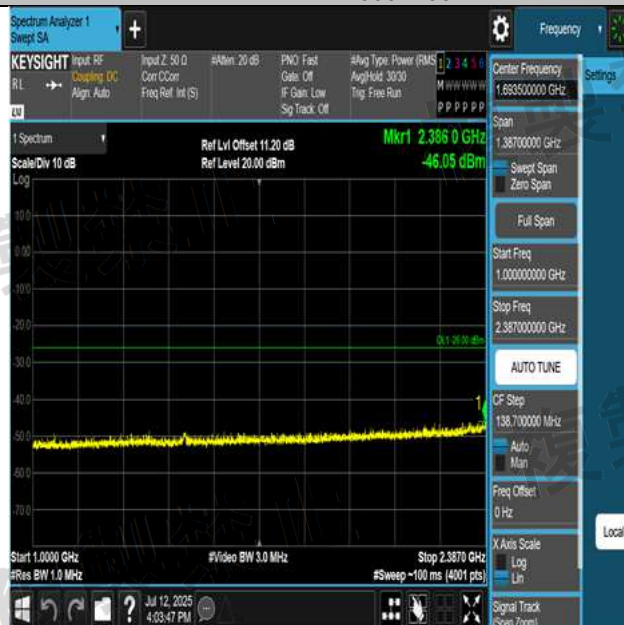
NTNV-11B-Ant1-2442-500~1000-PASS



NTHV-11B-Ant1-2442-500~1000-PASS



NTLV-11B-Ant1-2442-1000~2387-PASS



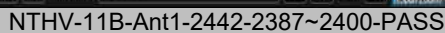
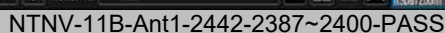
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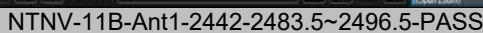
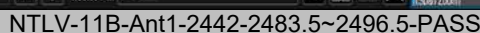


NTHV-11B-Ant1-2442-1000~2387-PASS



NTLV-11B-Ant1-2442-2387~2400-PASS







NTHV-11B-Ant1-2442-2483.5~2496.5-PASS



NTLV-11B-Ant1-2442-2496.5~13000-PASS