
FCC Test Report

Report No.: AGC10211260307FR03

FCC ID : 2A7PI-WPD34

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Wanbo Projector

BRAND NAME : wanbo

MODEL NAME : WPD34, WPD31, WPD32, WPD33, WPD35, ToGo Pro, Togo Air, WPC1M4, Vali 1 Mini

APPLICANT : Shenzhen wanbo Technology Co., Ltd.

DATE OF ISSUE : Mar. 19, 2026

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 19, 2026	Valid	Initial Release

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1. General Information

Applicant	Shenzhen wanbo Technology Co., Ltd.
Address	4th Floor, Building 1, Chuangjian Phase 2 Industrial Park, Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen, China
Manufacturer	Shenzhen wanbo Technology Co., Ltd.
Address	4th Floor, Building 1, Chuangjian Phase 2 Industrial Park, Yingrenshi Community, Shiyan Street, Baoan District, Shenzhen, China
Product Designation	Wanbo Projector
Brand Name	wanbo
Test Model	WPD34
Series Model(s)	WPD31, WPD32, WPD33, WPD35, ToGo Pro, Togo Air, WPC1M4, Vali 1 Mini
Difference Description	All the same except for the model name
Date of receipt of test item	Mar. 09, 2026
Date of Test	Mar. 09, 2026~ Mar. 19, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-2.4GWLAN-V1

Note: The test results of this report relate only to the tested sample identified in this report

Prepared By



Cool Cheng
(Project Engineer)

Mar. 19, 2026

Reviewed By



Bibo Zhang
(Reviewer)

Mar. 19, 2026

Approved By



Angela Li
(Authorized Officer)

Mar. 19, 2026

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2. Product Information

2.1 Product Technical Description

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz
Modulation	802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM,16-QAM, QPSK, BPSK) OFDM
Data Rate	802.11b:1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps
Number of channels	11 Channels for 2412-2462MHz(IEEE 802.11b/g/n HT20) 7 Channels for 2422-2452MHz(IEEE 802.11n HT40)
Hardware Version	KSOC_136_R3_WB
Software Version	wanbo-WPD34-KWQE-V1.0.0
Antenna Designation	PCB Antenna
Antenna Gain	Antenna 1: 4.83dBi, Antenna 2: 2.35dBi
Number of transmit chain	2(Only 802.11n support MIMO)
Power Supply	Input: AC 100-240V 50/60Hz 2A(Max)

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2.2 Table of Carrier Frequency

For 2412-2462MHz:

11 channels are provided for 802.11b/g/n(HT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz		

7 channels are provided for 802.11n(HT40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	--	02	--	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	--	11	--		

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2.3 IEEE 802.11n Modulation Scheme

MCS Index	N _{ss}	Modulation	R	N _{BPSC}	N _{CBPS}		N _{DBPS}		Data Rate(Mbps)	
									800nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0
6	1	64-QAM	3/4	6	312	648	234	489	58.5	121.5
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

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2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2A7PI-WPD34**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.5 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020+Cor.1-2023	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 662911	KDB 662911 D01 Multiple Transmitter Output v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

2.6 Special Accessories

Refer to section 4.4.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

2.8 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi
EUT Antenna: The non-detachable antenna inside the device cannot be replaced by the user at will. For the antenna gain, please refer to the description in Chapter 2.9 of the report.

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2.9 Description of Available Antennas

Frequency Band (MHz)	Max Peak Gain (dBi)		Directional Gain for Power Measurements (dBi)	Directional Gain for PSD Measurements (dBi)
	Ant 1	Ant 2		
2400~2483.5	4.83	2.35	4.83	7.84

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Duty Cycle	$U_c = \pm 2 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2026-01-31	2028-01-30
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☐	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2024-03-28	2026-03-27

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2026-01-13	2027-01-12
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2026-01-14	2028-01-13
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	DC-6GZ	2026-01-13	2028-01-12
☒	AGC-EM-E023	AMN	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07

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● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☐	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☒	AGC-EM-S004	RE Test System	Tonscend	TS+ Ver2.1(JS32-RE)	4.0.0.0
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Conducted Emission & Radiated Emission Configure:



4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.247 (d)&15.209	Radiated Spurious Emission	Pass
7	§15.207	AC Power Line Conducted Emission	Pass

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5. Description of Test Modes

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	2.4G WLAN – 802.11b/g/n (DSSS/OFDM)
Radiated & Conducted Test Cases	Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mode 8: 802.11n-HT20_TX CH06_2437 MHz_MCS0 Mode 9: 802.11n-HT20_TX CH11_2462 MHz_MCS0 Mode 10: 802.11n-HT40_TX CH03_2422 MHz_MCS0 Mode 11: 802.11n-HT40_TX CH06_2437 MHz_MCS0 Mode 12: 802.11n-HT40_TX CH09_2452 MHz_MCS0
AC Conducted Emission	Mode 1: Wi-Fi Link

Note:

1. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
2. All modes and antennas in the radiation spurious test are pre-scanned. When there is no MIMO technology mode, antenna 1 is evaluated. When there is MIMO technology mode, antenna 1 + antenna 2 are evaluated as the worst data.
3. The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
4. Input correction factor includes external cable loss and attenuator amplitude compensation. The formula is: Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)
5. The system was configured for testing in a continuous transmits condition and change test channels by engineer mode (Xshell 7(Build 0076) at default power level) provided by application.

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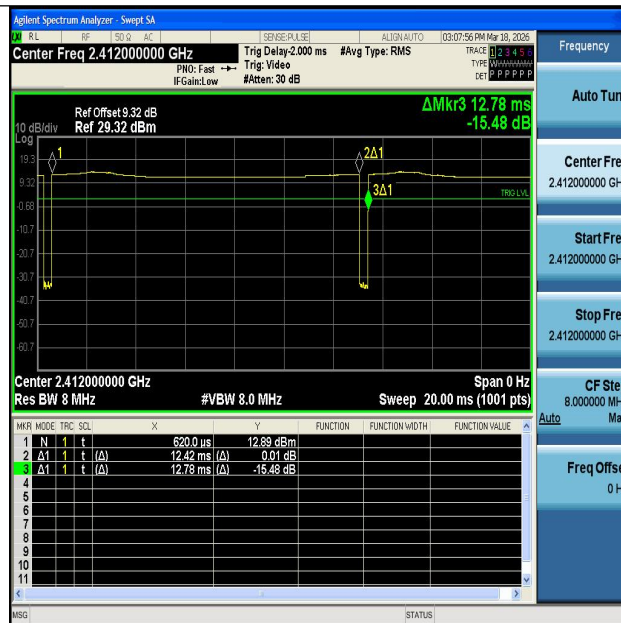
6. Duty Cycle Measurement

2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater than $50/T$, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

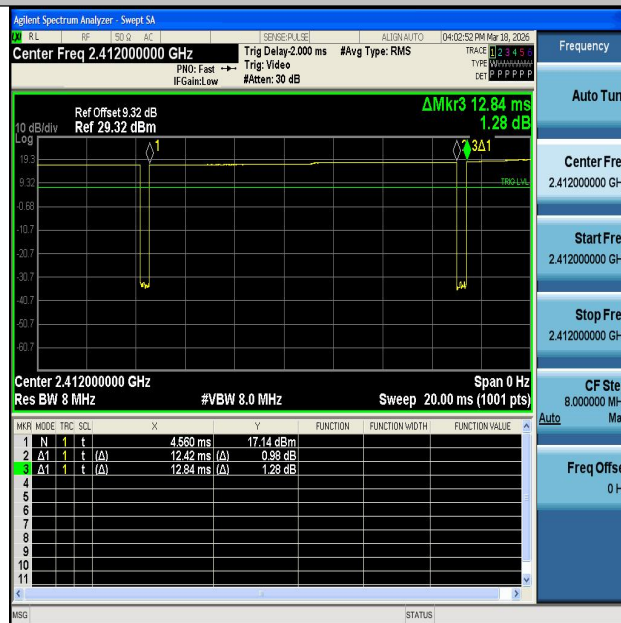
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.42	12.78	97.18	0.12
11B	Ant2	2412	12.42	12.84	96.73	0.14
11B	Ant1	2437	12.42	12.84	96.73	0.14
11B	Ant2	2437	12.42	12.78	97.18	0.12
11B	Ant1	2462	12.42	12.80	97.03	0.13
11B	Ant2	2462	20.00	20.00	100.00	0.00
11G	Ant1	2412	2.06	2.26	91.15	0.40
11G	Ant2	2412	2.06	2.26	91.15	0.40
11G	Ant1	2437	2.06	2.30	89.57	0.48
11G	Ant2	2437	2.06	2.28	90.35	0.44
11G	Ant1	2462	2.06	2.28	90.35	0.44
11G	Ant2	2462	2.06	2.28	90.35	0.44
11N20MIMO	Ant1	2412	0.22	0.46	47.83	3.20
11N20MIMO	Ant2	2412	0.22	0.46	47.83	3.20
11N20MIMO	Ant1	2437	0.22	0.46	47.83	3.20
11N20MIMO	Ant2	2437	0.22	0.44	50.00	3.01
11N20MIMO	Ant1	2462	0.22	0.46	47.83	3.20
11N20MIMO	Ant2	2462	0.22	0.46	47.83	3.20
11N40MIMO	Ant1	2422	0.12	0.36	33.33	4.77
11N40MIMO	Ant2	2422	0.13	0.36	36.11	4.42
11N40MIMO	Ant1	2437	0.12	0.32	37.50	4.26
11N40MIMO	Ant2	2437	0.12	0.31	38.71	4.12
11N40MIMO	Ant1	2452	0.13	0.35	37.14	4.30
11N40MIMO	Ant2	2452	0.13	0.34	38.24	4.17

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The test plots as follows:



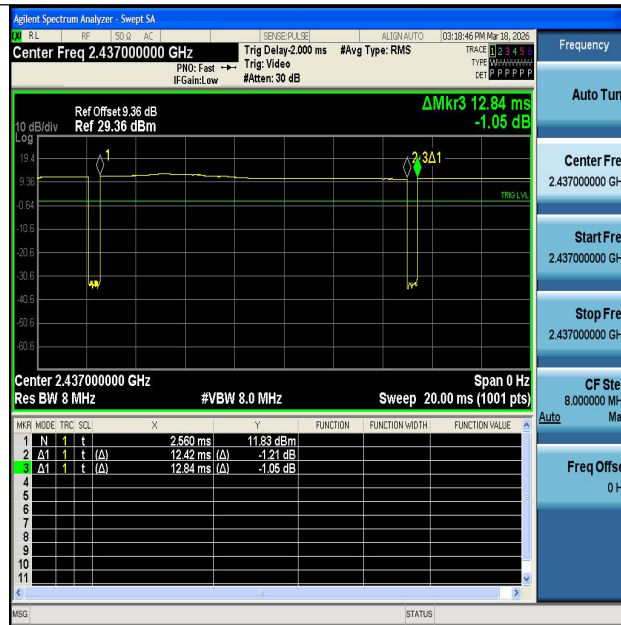
NTNV-11B-Ant1-2412



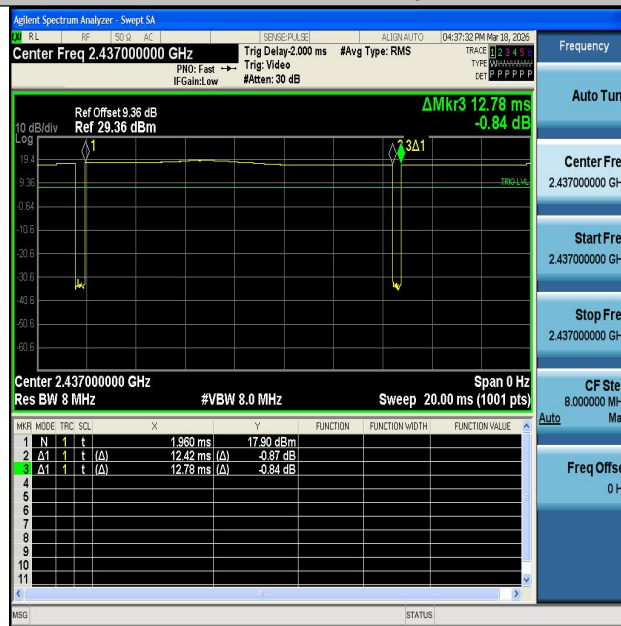
NTNV-11B-Ant2-2412

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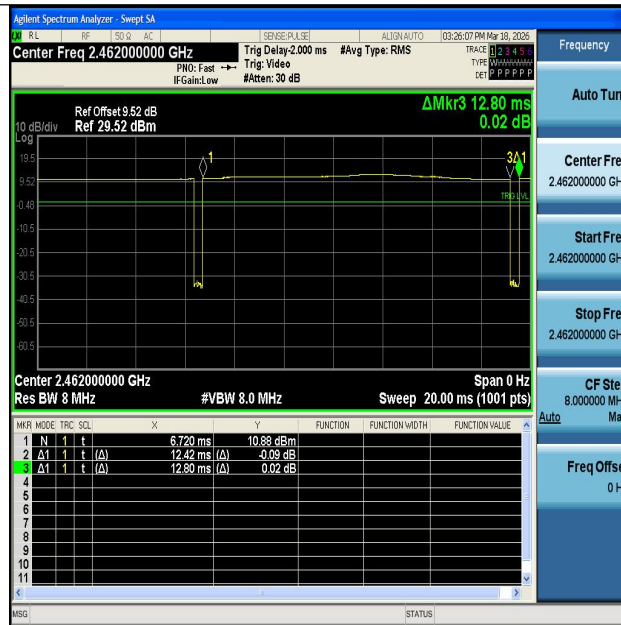


NTNV-11B-Ant1-2437

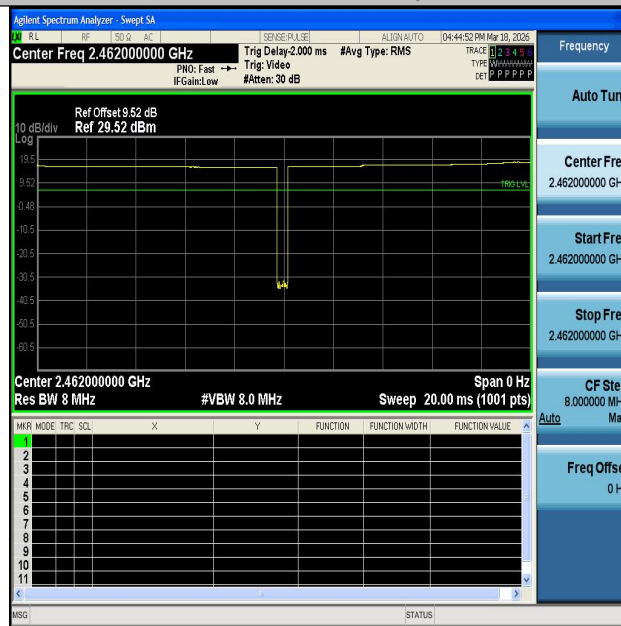


NTNV-11B-Ant2-2437

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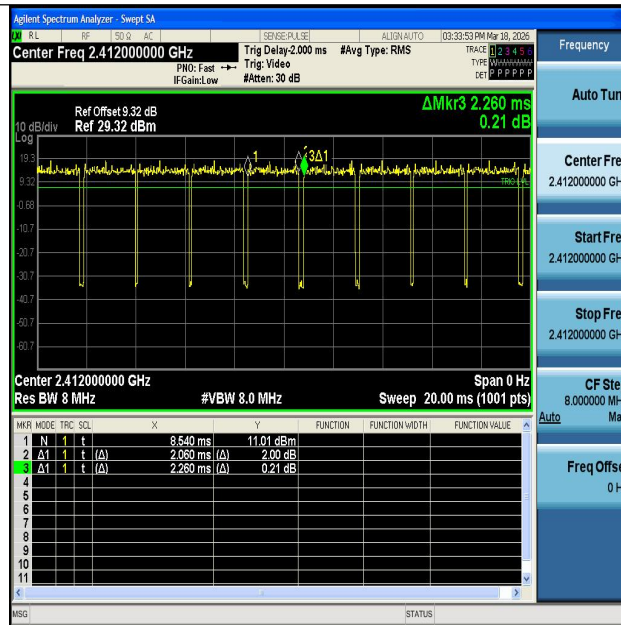
NTNV-11B-Ant1-2462



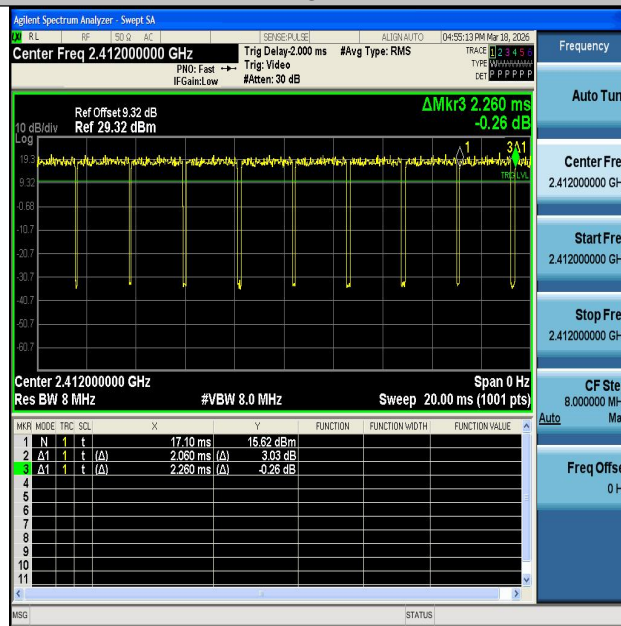
NTNV-11B-Ant2-2462

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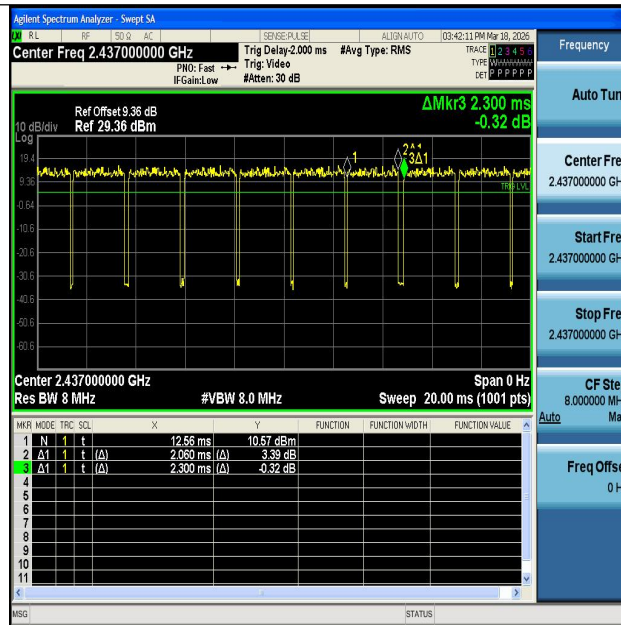
NTNV-11G-Ant1-2412



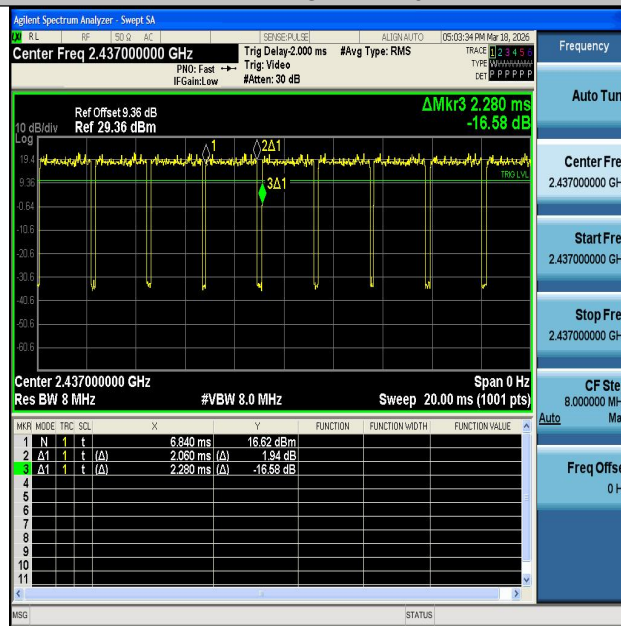
NTNV-11G-Ant2-2412

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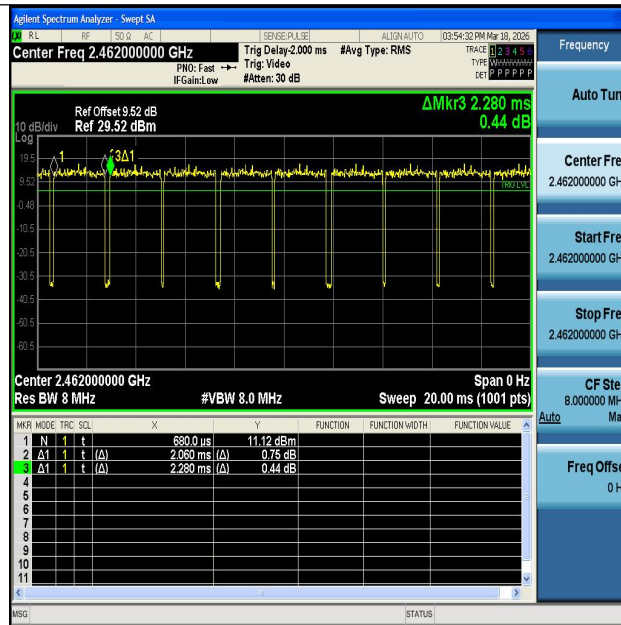
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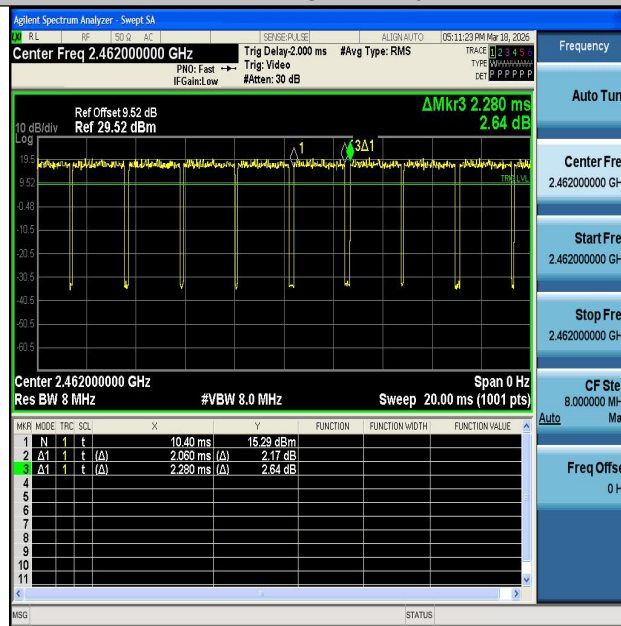
NTNV-11G-Ant2-2437

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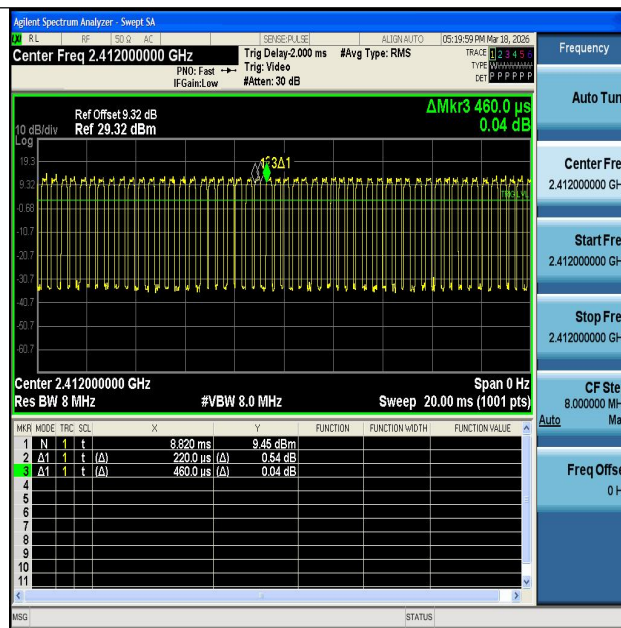
NTNV-11G-Ant1-2462



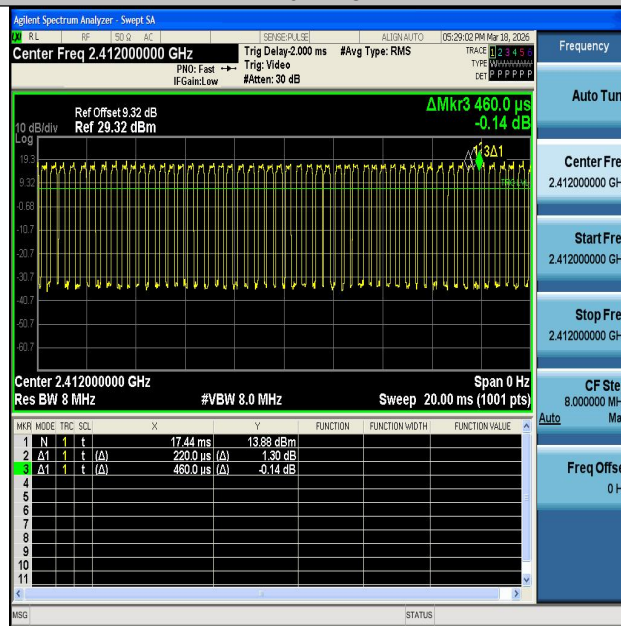
NTNV-11G-Ant2-2462

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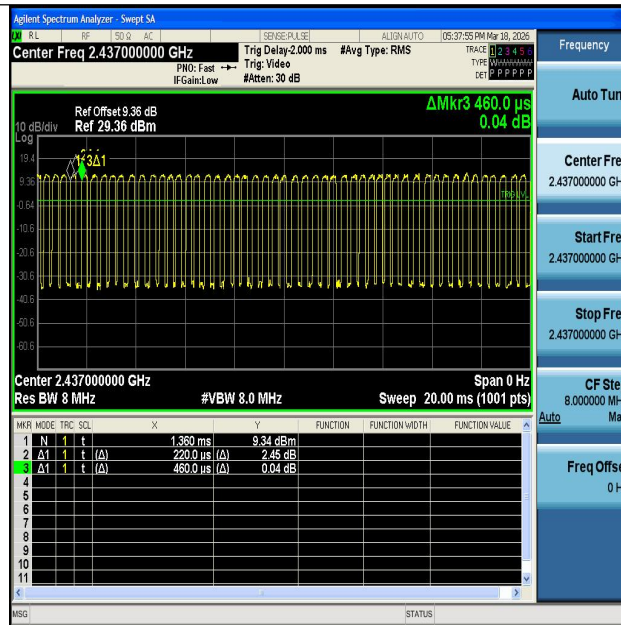


NTNV-11N20MIMO-Ant1-2412

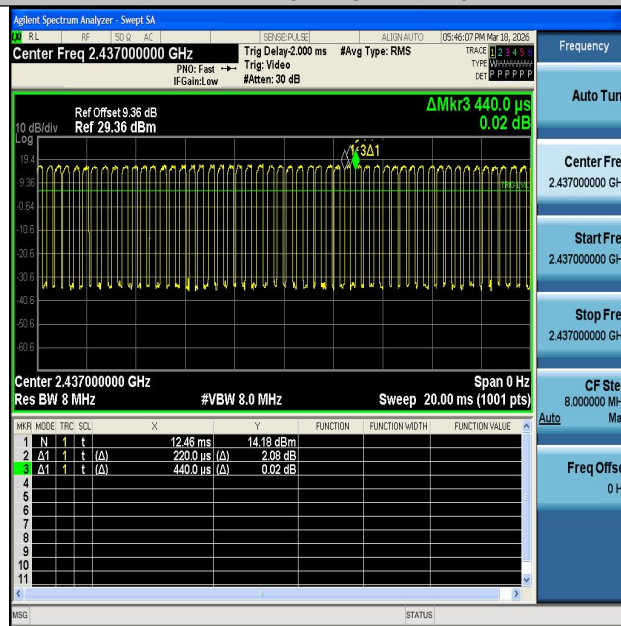


NTNV-11N20MIMO-Ant2-2412

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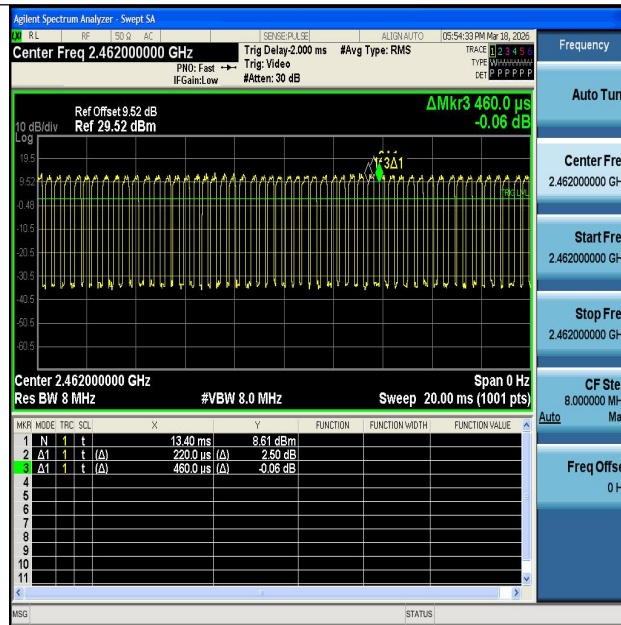


NTNV-11N20MIMO-Ant1-2437

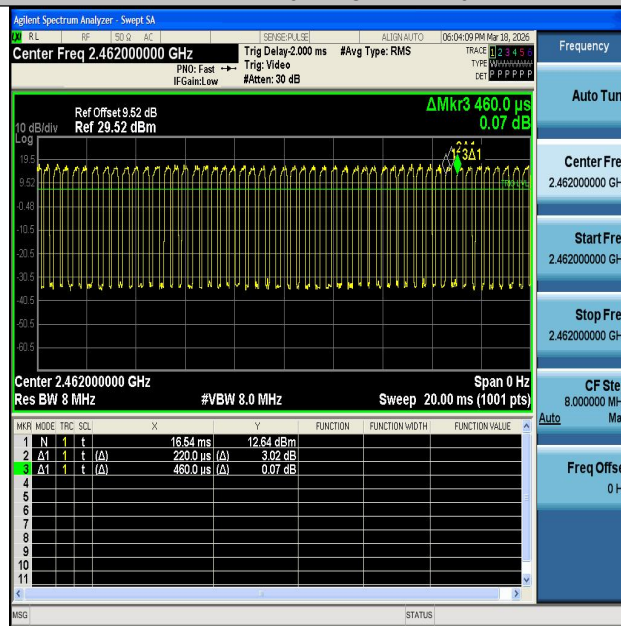


NTNV-11N20MIMO-Ant2-2437

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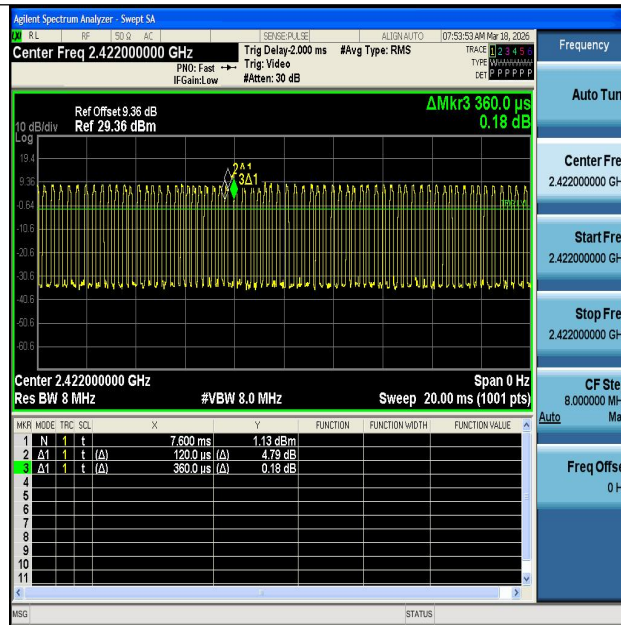


NTNV-11N20MIMO-Ant1-2462

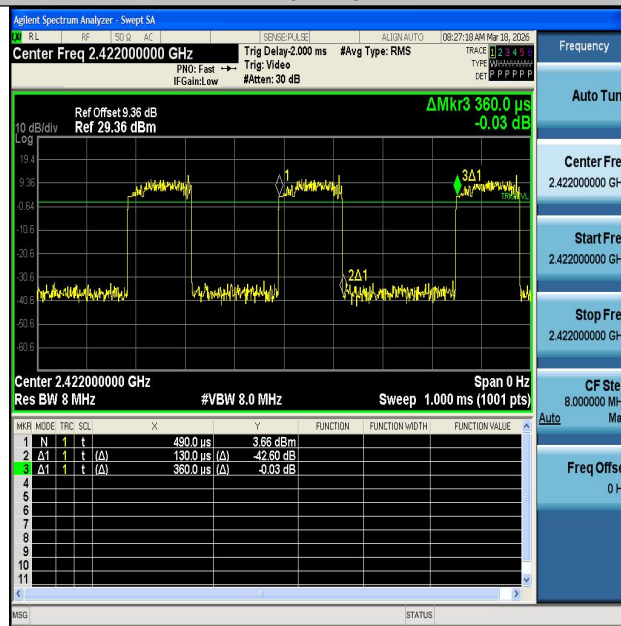


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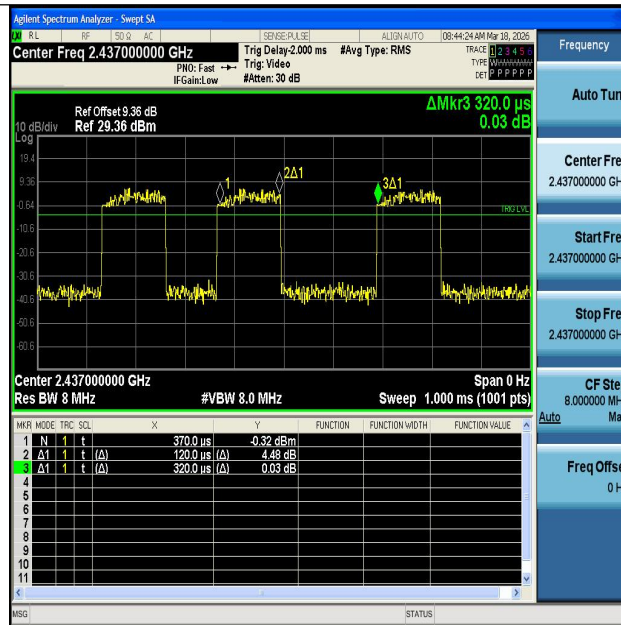


NTNV-11N40MIMO-Ant1-2422

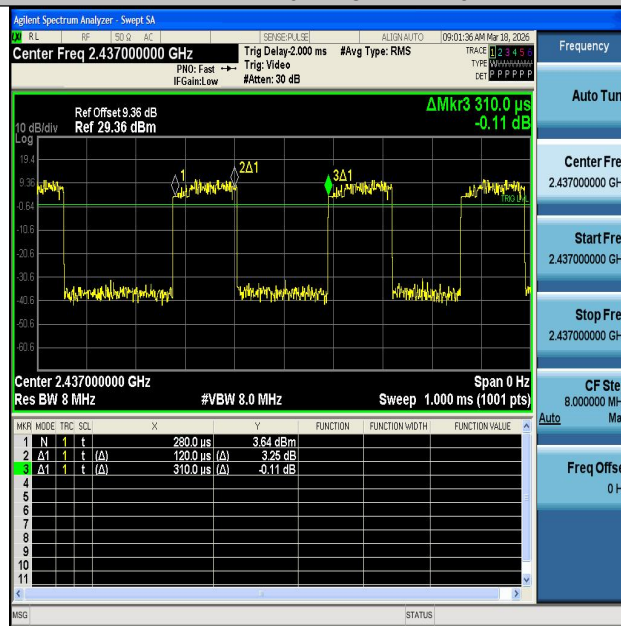


NTNV-11N40MIMO-Ant2-2422

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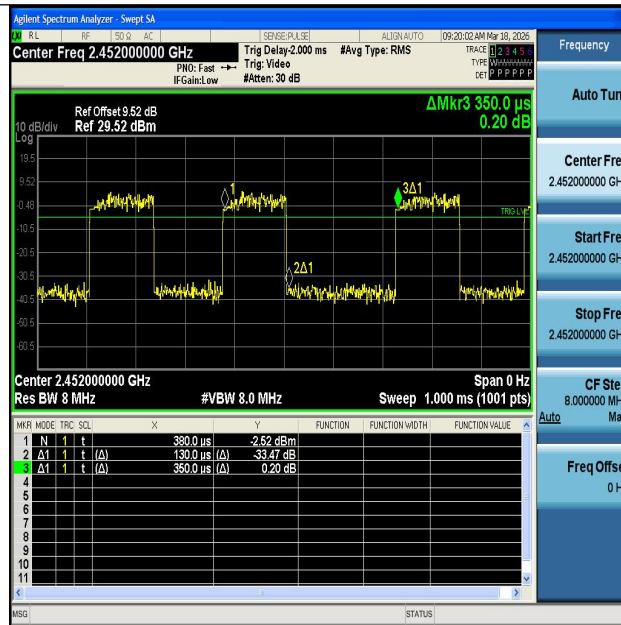
NTNV-11N40MIMO-Ant1-2437



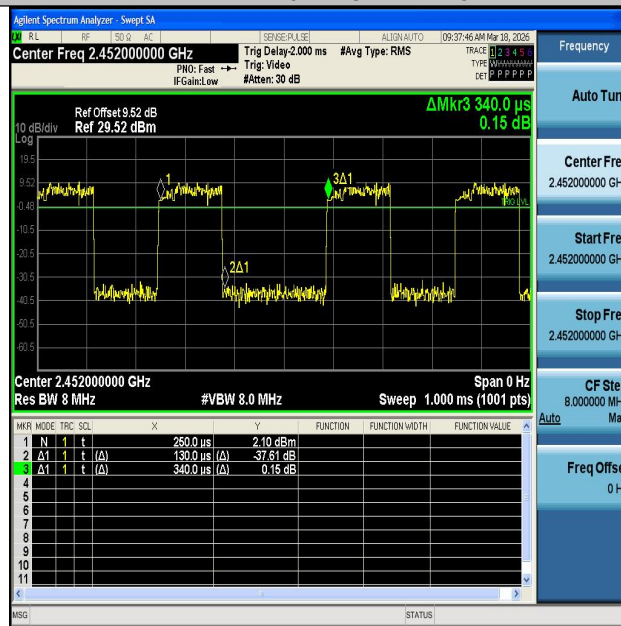
NTNV-11N40MIMO-Ant2-2437

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NTNV-11N40MIMO-Ant1-2452



NTNV-11N40MIMO-Ant2-2452

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7. RF Output Power Measurement

7.1 Provisions Applicable

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 Measurement Procedure

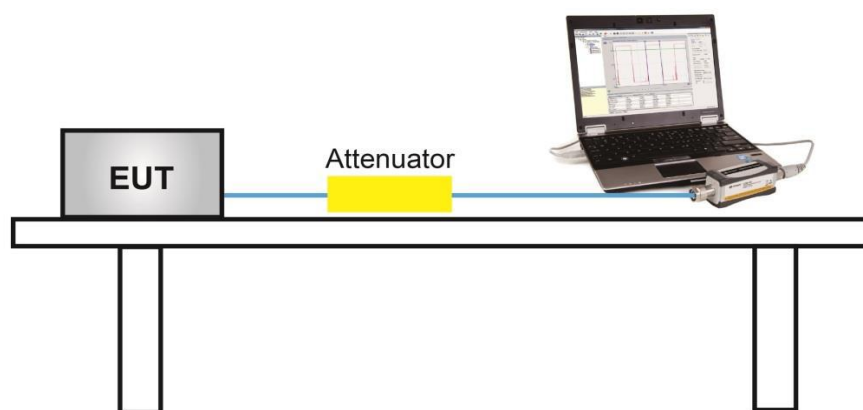
☒ Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.1.3
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

☒ Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.2.3
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
8. Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.
9. Record the test results in the report.

7.3 Measurement Setup (Block Diagram of Configuration)



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7.4 Measurement Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11B	Ant1	2412	8.96	≤30.00	PASS
11B	Ant2	2412	14.32	≤30.00	PASS
11B	Ant1	2437	8.09	≤30.00	PASS
11B	Ant2	2437	14.36	≤30.00	PASS
11B	Ant1	2462	7.83	≤30.00	PASS
11B	Ant2	2462	13.41	≤30.00	PASS
11G	Ant1	2412	9.64	≤30.00	PASS
11G	Ant2	2412	14.01	≤30.00	PASS
11G	Ant1	2437	8.69	≤30.00	PASS
11G	Ant2	2437	14.24	≤30.00	PASS
11G	Ant1	2462	8.70	≤30.00	PASS
11G	Ant2	2462	13.15	≤30.00	PASS
11N20MIMO	Ant1	2412	7.69	≤30.00	PASS
11N20MIMO	Ant2	2412	12.53	≤30.00	PASS
11N20MIMO	total	2412	13.76	≤30.00	PASS
11N20MIMO	Ant1	2437	8.30	≤30.00	PASS
11N20MIMO	Ant2	2437	12.68	≤30.00	PASS
11N20MIMO	total	2437	14.03	≤30.00	PASS
11N20MIMO	Ant1	2462	7.37	≤30.00	PASS
11N20MIMO	Ant2	2462	11.85	≤30.00	PASS
11N20MIMO	total	2462	13.17	≤30.00	PASS
11N40MIMO	Ant1	2422	7.04	≤30.00	PASS
11N40MIMO	Ant2	2422	10.59	≤30.00	PASS
11N40MIMO	total	2422	12.18	≤30.00	PASS
11N40MIMO	Ant1	2437	5.65	≤30.00	PASS
11N40MIMO	Ant2	2437	9.95	≤30.00	PASS
11N40MIMO	total	2437	11.32	≤30.00	PASS
11N40MIMO	Ant1	2452	5.44	≤30.00	PASS
11N40MIMO	Ant2	2452	9.22	≤30.00	PASS
11N40MIMO	total	2452	10.74	≤30.00	PASS

Note:

- The Total Average Conducted Output Power (dBm) = $10 \cdot \log \{10^{(\text{Ant1 AVG} / 10)} + 10^{(\text{Ant2 AVG} / 10)}\}$.

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8. 6dB Bandwidth Measurement

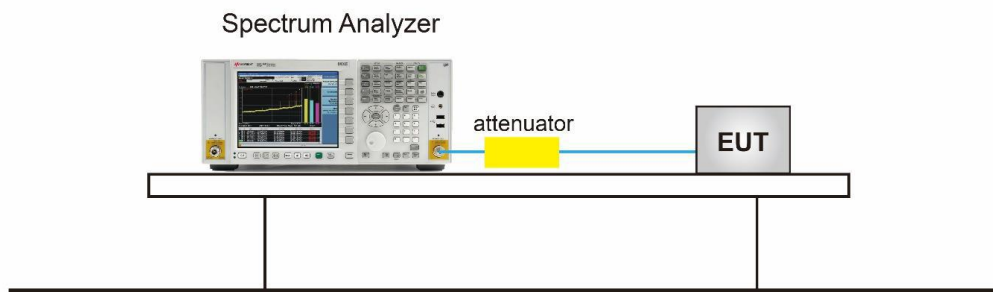
8.1 Provisions Applicable

The minimum 6dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
 2. Set to the maximum power setting and enable the EUT transmit continuously.
 3. For 6dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 300 kHz. Set the Video bandwidth (VBW) = 1MHz. In order to make an accurate measurement.
 4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$.
 5. Detector = peak
 6. Trace mode = max hold.
 7. Sweep = auto couple.
 8. Allow the trace to stabilize.
 9. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)



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8.4 Measurement Result

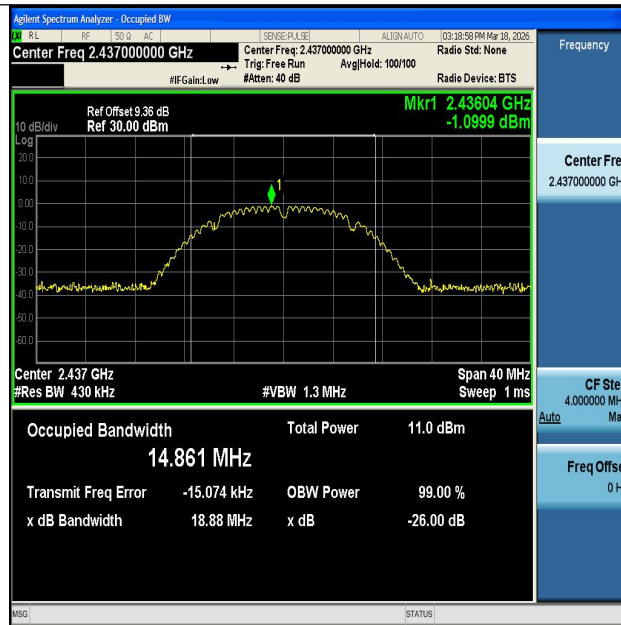
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	14.799	10.280	0.5	PASS
11B	Ant2	2412	14.773	10.280	0.5	PASS
11B	Ant1	2437	14.861	10.240	0.5	PASS
11B	Ant2	2437	14.635	10.240	0.5	PASS
11B	Ant1	2462	14.855	10.280	0.5	PASS
11B	Ant2	2462	14.822	10.280	0.5	PASS
11G	Ant1	2412	16.642	16.360	0.5	PASS
11G	Ant2	2412	16.886	16.080	0.5	PASS
11G	Ant1	2437	16.628	16.280	0.5	PASS
11G	Ant2	2437	16.651	16.240	0.5	PASS
11G	Ant1	2462	16.571	16.280	0.5	PASS
11G	Ant2	2462	16.823	16.160	0.5	PASS
11N20MIMO	Ant1	2412	17.878	17.000	0.5	PASS
11N20MIMO	Ant2	2412	17.863	17.440	0.5	PASS
11N20MIMO	Ant1	2437	17.660	17.480	0.5	PASS
11N20MIMO	Ant2	2437	17.647	17.440	0.5	PASS
11N20MIMO	Ant1	2462	17.734	17.440	0.5	PASS
11N20MIMO	Ant2	2462	17.721	17.400	0.5	PASS
11N40MIMO	Ant1	2422	36.324	36.080	0.5	PASS
11N40MIMO	Ant2	2422	36.252	36.160	0.5	PASS
11N40MIMO	Ant1	2437	36.169	36.080	0.5	PASS
11N40MIMO	Ant2	2437	36.117	36.000	0.5	PASS
11N40MIMO	Ant1	2452	36.548	36.000	0.5	PASS
11N40MIMO	Ant2	2452	36.349	35.920	0.5	PASS

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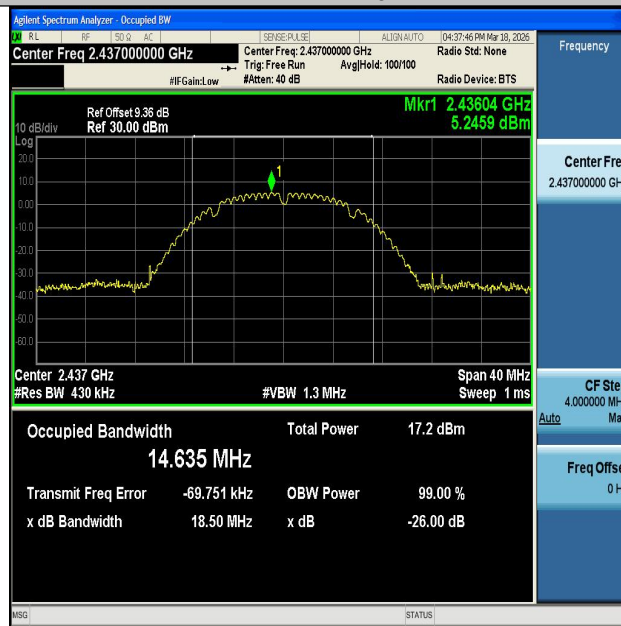
Test Graphs of Occupied Bandwidth



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11B-Ant1-2437



11B-Ant2-2437

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