

FCC Radio Test Report

FCC ID: 2AXJ4EAP660HDV2

Report No. Equipment Model Name Brand Name Applicant Address Manufacturer Address	:	eLab-FCCP-2-2308G050 AX3600 Ceiling Mount Wi-Fi 6 Access Point EAP660 HD tp-link TP-Link Corporation Limited Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong TP-Link Corporation Limited Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong
Radio Function	:	WLAN 2.4 GHz
FCC Rule Part(s) Measurement Procedure(s)		FCC CFR Title 47, Part 15, Subpart C (15.247) ANSI C63.10-2013
Date of Receipt Date of Test Issued Date	:	2023/8/9 2023/9/4 ~ 2023/10/16 2023/11/23

The above equipment has been tested and found in compliance with the requirement of the above standards by eLab Inc.

Prepared by

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Declaration

eLab represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

eLab's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **eLab** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **eLab** issued reports.

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eLab's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

eLab is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
eLab-FCCP-2-2308G050	R00	Original Report.	2023/11/7	Invalid
eLab-FCCP-2-2308G050	R01	Updated the laboratory address in first page.	2023/11/23	Valid



SUMMARY OF TEST RESULTS 1

Test procedures according to the technical standards.

Standard(s) Section	Description	Result	Remark
15.207	AC Power Line Conducted Emissions	Pass	
15.205 15.209 15.247(d)	Radiated Emissions	Pass	
15.247(a)	Bandwidth	Pass	
15.247(b)	Output Power	Pass	
15.247(e)	Power Spectral Density	Pass	
15.247(d)	Antenna conducted Spurious Emission	Pass	
15.203	Antenna Requirement	Pass	

NOTE:

"N/A" denotes test is not applicable in this Test Report.
 The report format version is FR15CWL2.4_V1.0



1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No.64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, TaiwanThe test sites and facilities are covered under FCC RN 681248 and DN: TW4045.⊠C01⊠CB01⊠TR01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = 2$, providing a level of confidence of approximately **95** %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The eLab measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C01	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.4417
	0.2 GHz ~ 1 GHz	4.5567
CB01	1 GHz ~ 6 GHz	3.9930
CB01	6 GHz ~ 18 GHz	4.4555
	18 GHz ~ 26 GHz	3.8333
	26 GHz ~ 40 GHz	3.8241
	20 0112 ~ 40 0112	5.0241

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	1.0502
Output power	1.0406
Power Spectral Density	1.0502
Conducted Spurious emissions	1.1484
Conducted Band edges	1.0518

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

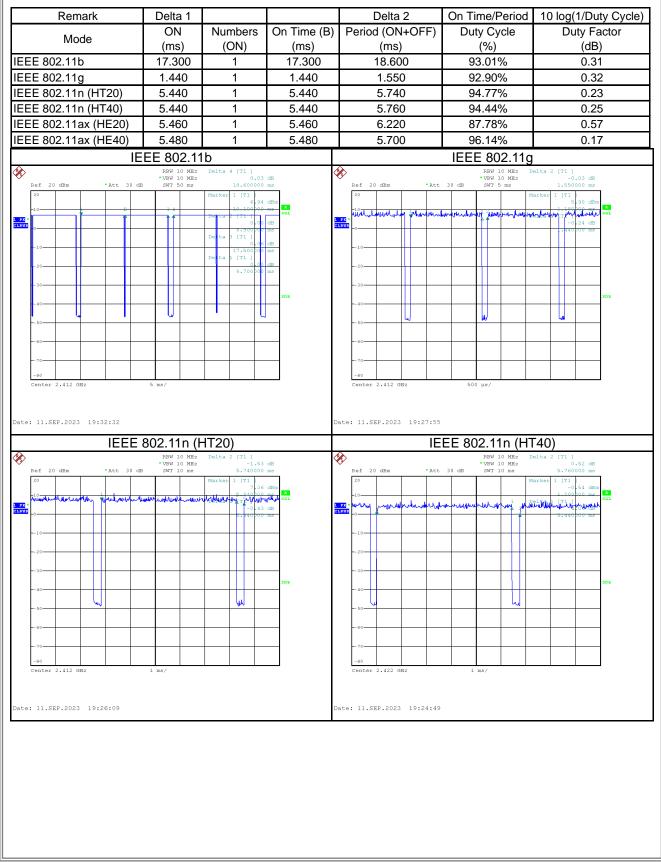
1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	23 °C, 45 %	AC 120V	Hunter Chiang
Radiated emissions below 1 GHz	Refer to data	AC 120V	Hunter Chiang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Hunter Chiang
Bandwidth	24 °C, 46 %	AC 120V	Hunter Chiang
Output Power	24 °C, 46 %	AC 120V	Hunter Chiang
Power Spectral Density	24 °C, 46 %	AC 120V	Hunter Chiang
Antenna conducted Spurious Emission	24 °C, 46 %	AC 120V	Hunter Chiang



1.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.





IEEE 802.11ax (HE20) RBW 10 MEz Delta 2 [T1] *UBW 10 MEz -0.6 dB Ref 20 dBm *Att 30 dB 5WT 10 mz						IEEE 802.11ax (HE40)													
						×	Ref 20	dBm		*Att	30 dB	RBW : * VBW : SWT :	LO MHz	Delta		.03 dB 000 ms			
0						.93 dBn			20							Marker	1 [T1 -0	.11 dBm	X
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50-50				9040	100				50	~.									
60									60										
70 80									70										
enter	2.412 GHz		1 ms/						Center	2.42	2 GHz		1	ms/					
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11.58	SP.2023 19:	13:18						Date	: 11.51	SP.ZU	JZ3 I9	:14:17							



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	AX3600 Ceiling Mount Wi-Fi 6 Access Point	
Model Name	EAP660 HD	
Brand Name	tp-link	
Serial Number	N/A	
Power Source	 1# DC Voltage supplied from AC adapter. Model: T120200-2B4 2# DC Voltage supplied from PoE adapter.(Support unit) 	
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.8A O/P: 12.0V === 2.0A 2# 802.3at PoE: 42.5-57V==0.6A	
Operation Band	2400 MHz ~ 2483.5 MHz	
Operation Frequency	2412 MHz ~ 2462 MHz	
Modulation Technology	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA	
Transfer Rate	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 600 Mbps IEEE 802.11ax: up to 1147.1 Mbps	
Output Power (Max). _Non Beamforming	IEEE 802.11b: 28.75 dBm (0.7499 W) IEEE 802.11g: 28.63 dBm (0.7295 W) IEEE 802.11n (HT20): 28.52 dBm (0.7112 W) IEEE 802.11n (HT40): 28.57 dBm (0.7194 W) IEEE 802.11ax (HE20): 28.73 dBm (0.7464 W) IEEE 802.11ax (HE40): 28.40 dBm (0.6918 W)	
Output Power (Max). _Non Beamforming	IEEE 802.11n (HT20): 27.90 dBm (0.6166 W) IEEE 802.11n (HT40): 27.90 dBm (0.6166 W) IEEE 802.11ax (HE20): 27.99 dBm (0.6295 W) IEEE 802.11ax (HE40): 27.76 dBm (0.5970 W)	

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (HT20), IEEE 802.11ax (HE20) CH03 – CH09 for IEEE 802.11n (HT40), IEEE 802.11ax (HE40)											
Channel	Frequency (MHz)										
01	2412	05	2432	09	2452						
02	2417	06	2437	10	2457						
03	2422	07	2442	11	2462						
04	2427	08	2447								



(3) Table for Filed Antenna:

יי	Table for The Antenna.							
	Ant.	Brand Name	Model Name	Туре	Frequency (MHz)	Gain (dBi)		
	1	tp-link	N/A	PIFA		2		
	2	tp-link	N/A	PIFA	2400 2500	2		
	3	tp-link	N/A	PIFA	2400-2500	2		
[4	tp-link N/A		PIFA		2		

Note:

 This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain. For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=2. For power spectral density measurements, N_{ANT}=4, N_{SS} = 1. So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/N_{SS})dBi=2+10log(4/1)dBi=8.02dBi. Then, the power spectral density limit is 8-(8.02-6)=5.98dBi.

2) The beamforming gain is 6 dBi, so the Directional gain=2+6=8 dBi.

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

(5) Table for Antenna Configuration:

Non Beamforming:

Operating Mode TX Mode	4TX
IEEE 802.11b	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11g	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)

Beamforming:

Operating Mode TX Mode	4TX
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE20)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)
IEEE 802.11ax(HE40)	V (Ant. 1 + Ant. 2+ Ant. 3+ Ant. 4)



2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11b	11	-
	TX Mode_IEEE 802.11b		
	TX Mode_IEEE 802.11g	01/11	
Transmitter Radiated Emissions	TX Mode_IEEE 802.11n (HT20)	01/11	Bandedge
(above 1GHz)	TX Mode_IEEE 802.11ax (HE20)		Danueuge
	TX Mode_IEEE 802.11n (HT40)	03/09	
	TX Mode_IEEE 802.11ax (HE40)	03/09	
	TX Mode_IEEE 802.11b		Harmonic
Transmitter Radiated Emissions	TX Mode_IEEE 802.11g	01/06/11	
	TX Mode_IEEE 802.11n (HT20)	01/00/11	
(above 1GHz)	TX Mode_IEEE 802.11ax (HE20)		
	TX Mode_IEEE 802.11n (HT40)	03/06/09	
	TX Mode_IEEE 802.11ax (HE40)	03/00/09	
	TX Mode_IEEE 802.11b		
Bandwidth &	TX Mode_IEEE 802.11g	01/06/11	
Output Power &	TX Mode_IEEE 802.11n (HT20)	01/00/11	
Power Spectral Density &	TX Mode_IEEE 802.11ax (HE20)		
Antenna conducted Spurious Emission	TX Mode_IEEE 802.11n (HT40)	03/06/09	
	TX Mode_IEEE 802.11ax (HE40)	03/00/09	

NOTE:

(1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Vertical) is recorded.

(2) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.

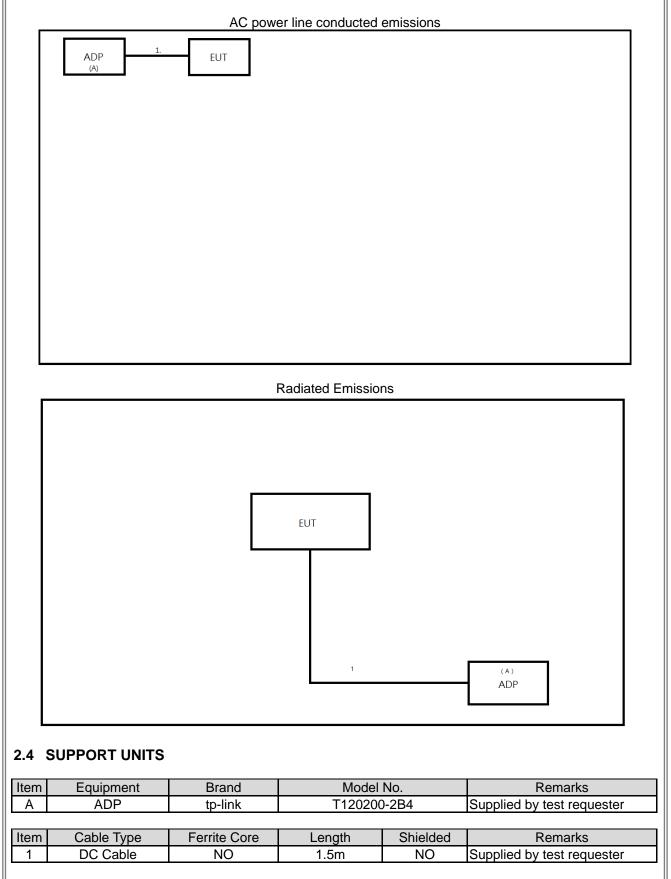
(3) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.

(4) For AC power line conducted emissions and radiated emission below 1 GHz test, the IEEE 802.11b channel 11 is found to be the worst case and recorded.



2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



Project No.: 2308G050



3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 - Measurement Value = Reading Level + Correct Factor

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Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
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Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	Ш	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	Ш	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).

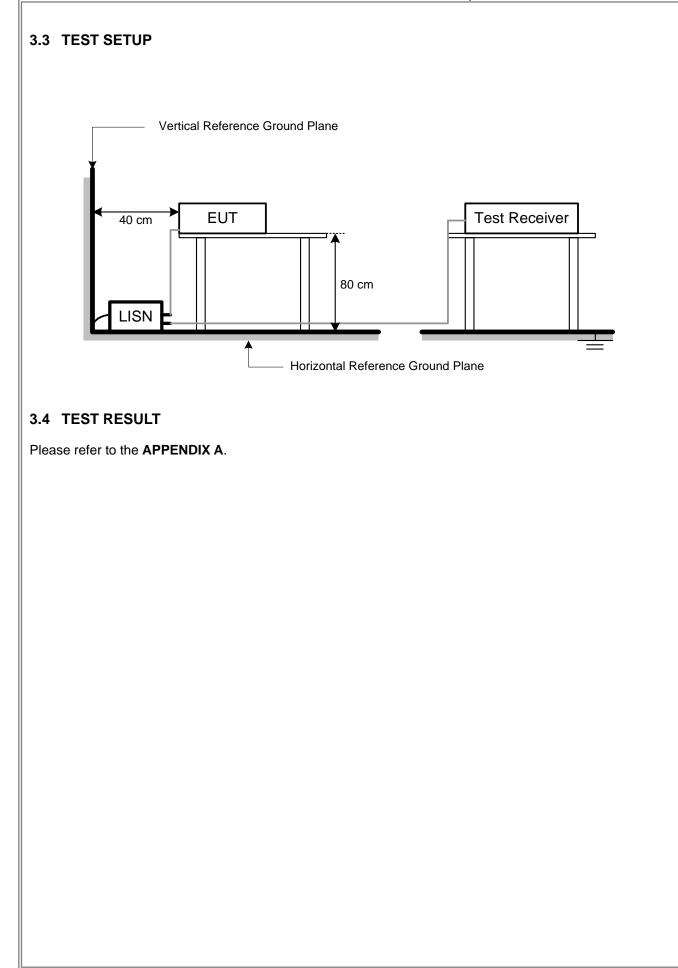
All other support equipment were powered from an additional LISN(s).

- The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable will be terminated, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.







4 RADIATED EMISSIONS TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated I (dBu)	Emissions V/m)	Measurement Distance
(11112)	Peak	Average	(meters)
Above 1000	74	54	3

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 - Measurement Value = Reading Level + Correct Factor
 - Correct Factor = Antenna Factor + Cable Loss Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

19.11 + 2	.11 = 21.22

Measurement Value		Limit Value		Margin Level
21.22	-	54	=	-32.78

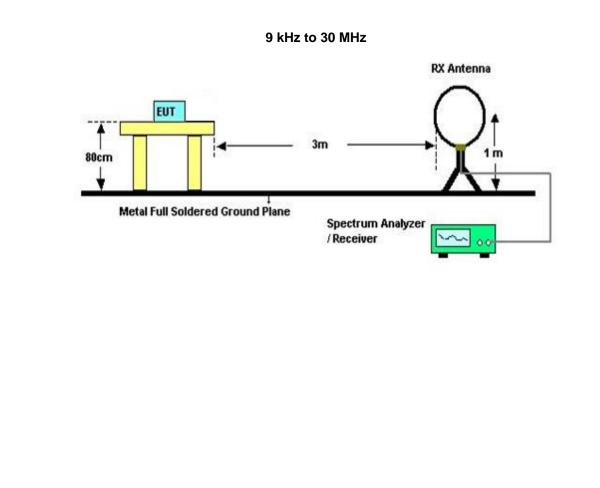
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector



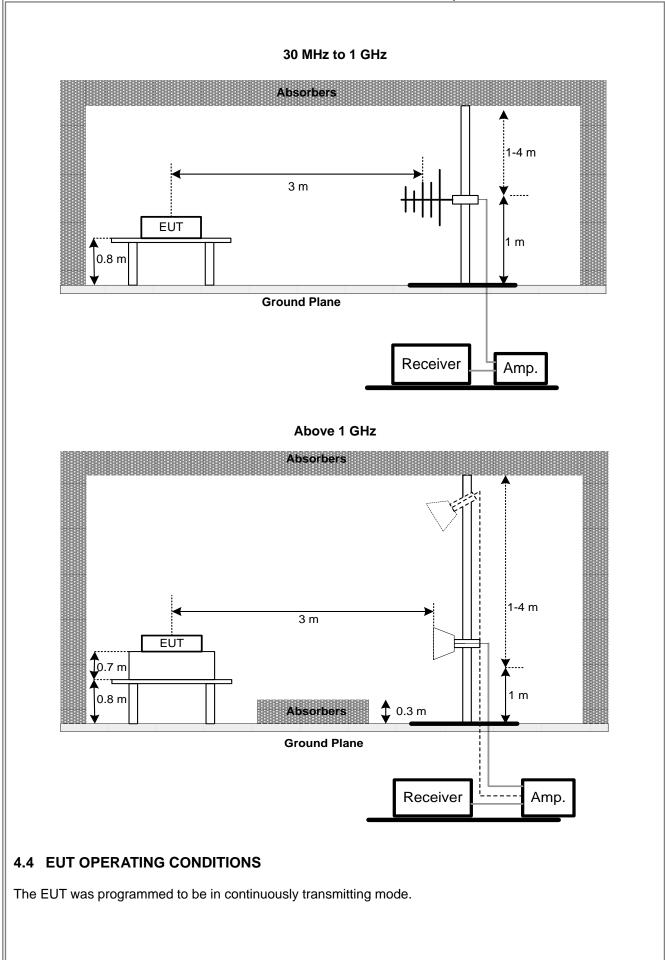
4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.



4.3 TEST SETUP







4.5 TEST RESULT – BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

4.6 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

4.7 TEST RESULT – ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



5 BANDWIDTH TEST

5.1 LIMIT

	FCC Part15, Subpart C (15.247)	
Section	Test Item	Limit
15.247(a)	6 dB Bandwidth	500 kHz

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.3 TEST SETUP



5.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.5 TEST RESULT

Please refer to the APPENDIX D.



6 OUTPUT POWER TEST

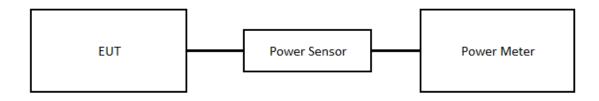
6.1 LIMIT

	FCC Part15, Subpart C (15.247)	
Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- Subclause 11.9.1.1 of ANSI C63.10 is applied. 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.

6.3 TEST SETUP



6.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.5 TEST RESULT

Please refer to the APPENDIX E.



7 POWER SPECTRAL DENSITY

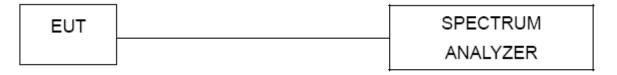
7.1 LIMIT

	FCC Part15, Subpart C (15.247)	
Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

7.3 TEST SETUP



7.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.5 TEST RESULT

Please refer to the APPENDIX F.



8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- c. Offset = antenna gain + cable loss.

8.3 TEST SETUP



8.4 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.5 TEST RESULT

Please refer to the APPENDIX G.



9 L		URING EQUIPI	MENTS			
		AC Pow	er Line Conducted	d Emissions		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101051	2024/7/21	2024/7/20
2	Test Cable	EMCI	EMCRG58-BM-B M-9000	210501	2022/12/15	2023/12/14
3	MXE EMI Receiver	Agilent	N9038A	MY54130009	2023/06/26	2024/06/25
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A
			Dedicted Emissio			
			Radiated Emission	ons		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC051845SE	980779	2022/12/19	2023/12/18
2	Preamplifier	EMCI	EMC184045SE	980512	2022/12/02	2023/12/01
3	Preamplifier	EMCI	EMC001340	980555	2022/12/05	2023/12/04
4	Test Cable	EMCI	EMCCFD400-NM -NM-8000	200343	2022/11/15	2023/11/14
5	Test Cable	EMCI	EMC105-SM-SM- 3000	210118	2022/12/08	2023/12/07
6	Test Cable	EMCI	EMC105-SM-SM- 7000	210117	2022/11/15	2023/11/14
7	Test Cable	EMCI	EMCCFD400-NM -NM-3300	200348	2022/11/15	2023/11/14
8	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2023/06/28	2024/06/27
10	Horn Antenna	RFSPIN	DRH18-E	BBHA9170340	2023/02/10	2024/02/09
11	Horn Ant	Schwarzbeck	BBHA 9170D	210109A18E	2023/06/29	2024/06/28
12	Log-bicon Antenna	Schwarzbeck	VULB9168	9168-1207	2023/01/13	2024/01/12
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-N0690	2023/01/13	2024/01/12
14	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A
			Developited			
			Bandwidth			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11

			Output Power	•		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11



		P	ower Spectral De	ensity		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11
		Antenna	conducted Spurio	ous Emission		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	EXA Signal Analyzer	keysight	N9010A	MY56480554	2023/9/12	2024/9/11

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



10 EUT TEST PHOTO

Please refer to APPENDIX-TEST PHOTOS.

11 EUT PHOTOS

Please refer to APPENDIX-EUT PHOTOS.







st Mode		Nor	mal										Te	este	ed Da	te	20	023/9/10
st Freque	ency	-											Ρ	has	е		Li	ne
80.0	dBu¥₂	/m																
70				_	_	_						_						_
60		-											-					_
50		-	- 8									_	-					_
40	13 8 ¥	57 1679 XX	¥o X	_														j 3
30	××	хх											_					8
20						_							_					
10																		
0													_					
-10																		
-20													_					_
-30													_					
-40.0																		
0.1	50			0.5				(M H	z]			5					3	0.000
No. Mk	. Fr	eq.	Readin Level		Corre		Measure- ment	Lin	nit	Margii	n							
	М	Hz	dBu∀/n		dB		dBuV/m	dBu\	//m	dB	De	etector	C	omm	ent			
1	0.1		29.17		9.6		38.84	65.		-26.80		QΡ						
2	0.1		24.72		9.6		34.39	55.		-21.25		AVG						
3	0.2		28.51		9.6		38.18	63.		-25.40		QP AVG						
4	0.2		24.00		9.6 9.6		33.67 37.99	53. 62.		-19.91 -24.09								
6	0.24		23.65		9.6		33.32	52.		-18.76								
7	0.2		29.70		9.6		39.36	60.		-21.42		QP						
8	0.2	812	24.38		9.6	6	34.04	50.		-16.74		AVG						
9	0.34	471	35.33		9.6	6	44.99	59.	03	-14.04	(QΡ						
10 *	0.34	471	29.88		9.6	6	39.54	49.	03	-9.49	/	AVG						
11	26.0	750	25.27		10.2		35.47	60.	00	-24.53	(QΡ						
12	26.0	750	22.74		10.2	0	32.94	50.	00	-17.06		٩VG						

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.



st Mode		No	rmal						Tested Date	2023/9/10
st Frequ	ency	-							Phase	Neutral
										•
80.0	dBu₩Z	m								
70										
60										
50			7							
40	13 XX	5 6	¥ Xg							11
30	x x	x	10 X							11 <u>2</u> X
20										
10										
0										
-10										
-20										
-30										
- 40.0 0.1	150).5		(MHz)		5		30.000
			Reading	Correct	Measure-					
No. Mk		· ·	Level	Factor	ment	Limit	Margin			
	MH		dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	0.16		30.01	9.67	39.68	65.28 55.28	-25.60 -20.80	QP		
2	0.16		24.81 29.80	9.67 9.66	34.48 39.46	55.28 64.32	-20.80	AVG QP		
4	0.10		29.60	9.66	34.24	54.32	-24.00	AVG		
5	0.26		30.52	9.65	40.17	61.38	-20.00	QP		
6	0.26		24.75	9.65	34.40	51.38	-16.98	AVG		
7	0.34		36.56	9.66	46.22	59.01	-12.79	QP		
8 *	0.34		31.46	9.66	41.12	49.01	-7.89	AVG		
9	0.39	75	26.43	9.67	36.10	57.91	-21.81	QP		
10	0.39	75	22.52	9.67	32.19	47.91	-15.72	AVG		
11	26.60	00	25.41	10.43	35.84	60.00	-24.16	QP		
12	26.60	000	22.82	10.43	33.25	50.00	-16.75	AVG		

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.



Mode		Idle													Tes	steo	d Da	te	2023/	/9/11
Freque	ency	-													Ph	ase	9		Line	
80.0 F	dBuV.	/m																		
70																				
60			_																	
50																				
40		5	X	_																
	;	5 1 10 2 10 2 X	x	300 X															13 ×	
20																				
10																				
0																				
-10																				
-20																+				
-30						_														
-40.0 0.1	50			().5				(MH	z)			5	i					30.000	
			Rea	ding	Co	rrect	Meas	sure-												
No. Mk		eq.	Lev	/el	Fa	actor	me		Lir			rgin								
		Hz	dBu			IB	dBu\		dBu\		dE			ector	Co	mme	ent			
1	0.1		29. 24.			0.67	39.1		65. 55.		-26 -21		Q	P /G						
3	0.1		24.			.67	34.3 36.7		62.		-21		Q							
4	0.2		23.			.67	33.0		52.		-19			/G					 	
5	0.2		29.			.66	39.0		61.		-22		Q						 	
6	0.2	627	23.	98	9	.66	33.0	64	51.	35	-17	71	A١	/G						
7	0.3	593	33.	24	9	.66	42.9	90	58.	74	-15	.84	Q	Р						
8 *	0.3		26.			.66	35.9		48.		-12			/G					 	
9	0.4		25.			.67	34.7		57.		-22		Q							
10	0.4		22.			.67	32.3		47.		-15			/G						
11	27.7	000	23.	84	10	.20	34.(04	60 .	00	-25	96	Q	Р						

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.



Mode	ld	le						Tested Date	2023/9/11
Freque	ency -							Phase	Neutral
									•
80.0	dBuV/m								
70									
60									
50									
40 8	35 ¥8	7茶0 卷x							- 11
30 ×	×××	×							112 X
20									
10									
0									
-10									
-20									
-30									
-40.0 0.1	50		0.5		(MHz)		5		30.000
0.1.	30	Reading		Measure-			3		30.000
No. Mk.	Freq.	Level	Factor	ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	0.1535	29.83	9.67	39.50	65.81	-26.31	QP		
2	0.1535	24.70	9.67	34.37	55.81	-21.44	AVG		
3	0.1881	29.55	9.66	39.21	64.12	-24.91	QP		
4	0.1881	24.21	9.66	33.87	54.12	-20.25	AVG		
5	0.2081	28.03	9.66	37.69	63.28	-25.59	QP		
6	0.2081	23.72	9.66	33.38	53.28	-19.90	AVG		
7	0.3334	30.38	9.66	40.04	59.37	-19.33	QP		
8	0.3334	24.96 34.66	9.66	34.62 44.32	49.37 58.77	-14.75 -14.45	AVG QP		
9	0.3580	28.39	9.66	38.05	48.77	-14.45	AVG		
	0.5560	20.39	9.00	36.05	40.11				
11	26.9250	25.40	10.43	35.83	60.00	-24.17	QP		

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.







Test I	Mode		IFFF	802.11g		т	est Date		2023/9/1	0
Test Frequency				602.119 62MHz	-	Polarization			Vertical	
Temp			25°C			Hum.			45%	
	BuV/m									
70										
60										
50										
40					5					
30 ×	×	Xta		4 ×	5X			Š		
20										
10										
0.0	127.00	224.00	321.00	418.00	515.00	612.00) 709.0	0 806.00	1000.00	Hz
No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	e- Limit	Margir	1			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment		
1 3	0.0000	46.26	-13.67	32.59	40.00	-7.41	peak			

	MHZ	dBuv	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	30.0000	46.26	-13.67	32.59	40.00	-7.41	peak	
2	* 84.3200	49.40	-16.71	32.69	40.00	-7.31	peak	
3	252.1300	45.45	-11.92	33.53	46.00	-12.47	peak	
4	362.7100	39.72	-8.85	30.87	46.00	-15.13	peak	
5	499.4800	38.92	-5.34	33.58	46.00	-12.42	peak	
6	838.0100	31.97	1.00	32.97	46.00	-13.03	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



	st Mode			802.11g			est Date		2023/9/1	
	Frequency		2462MHz				larizatio	n	Horizontal	
	Temp		25°C				Hum.		45%	
80.0	dBu∀/m									
70										
60										
50										
40	k	2 X	4 ×	5 X	×					
30										
20										
10										
0.0										
30	0.000 127.00	224.00	321.00	418.00	515.00	612.00	709.0	0 806.00	1000.00 M	Hz
No. M	-	Reading Level	Correct Factor	Measure- ment	Limit	Margin				
	MHz	dBuV	dB		dBuV/m	dB	Detector	Comment		
1	89.1700	51.69	-17.18	34.51	43.50	-8.99	peak			
2	210.4200	48.08	-14.34	33.74	43.50	-9.76	peak			
3 *	250.1900	51.97	-12.01	39.96	46.00	-6.04	peak			
4	294.8100	45.22	-10.43	34.79	46.00	-11.21	peak			

5

6

364.6500

475.2300

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.

-8.79

-5.78

35.86

37.06

46.00

46.00

-10.14

-8.94

peak

peak

44.65

42.84



APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ



Test Mode Test Frequency Temp				E 802.11	b		Test Dat			2023/10/	
			24	412MHz	P	olarizati	Vertical 68%				
			23°C						Hum.		
130.0	dBuV/m										-
120						<u> </u>					-
110					(`	`\					-
100											-
90											
80											
70					A						1
60		the state of the second		my 2V	עייע	anda	harm Jam	man	16	5	-
50	with the fight to the twenty	and an and a second		~ ~				-	and the second sec	6	1
40										×	-
30											-
20											-
10.0											
231	2.000 2332.0					2.00 243		52.00	2472.00	2512.00	MHz
lo. Mk.	Freq.	Reading Level	Correct Factor	Measur ment		Margin		Antenna Height	a Table Degree		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	

MHz 385.800	dBuV	dB	dBuV/m	dBuV/m	db	D 1 1			
205 000				ubuv/m	dB	Detector	cm	degree	Comment
565.600	56.74	3.76	60.50	74.00	-13.50	peak			
385.800	49.37	3.76	53.13	54.00	-0.87	AVG			
412.000	115.48	3.78	119.26	74.00	45.26	peak			NO Limit
412.000	113.03	3.78	116.81	54.00	62.81	AVG			NO Limit
501.000	50.84	3.84	54.68	74.00	-19.32	peak			
501.000	37.27	3.84	41.11	54.00	-12.89	AVG			
	385.800 412.000 412.000 501.000	385.800 49.37 412.000 115.48 412.000 113.03 501.000 50.84	385.800 49.37 3.76 412.000 115.48 3.78 412.000 113.03 3.78 501.000 50.84 3.84	385.800 49.37 3.76 53.13 412.000 115.48 3.78 119.26 412.000 113.03 3.78 116.81 501.000 50.84 3.84 54.68	385.800 49.37 3.76 53.13 54.00 412.000 115.48 3.78 119.26 74.00 412.000 113.03 3.78 116.81 54.00 501.000 50.84 3.84 54.68 74.00	385.800 49.37 3.76 53.13 54.00 -0.87 412.000 115.48 3.78 119.26 74.00 45.26 412.000 113.03 3.78 116.81 54.00 62.81 501.000 50.84 3.84 54.68 74.00 -19.32	385.800 49.37 3.76 53.13 54.00 -0.87 AVG 412.000 115.48 3.78 119.26 74.00 45.26 peak 412.000 113.03 3.78 116.81 54.00 62.81 AVG 501.000 50.84 3.84 54.68 74.00 -19.32 peak	385.800 49.37 3.76 53.13 54.00 -0.87 AVG 412.000 115.48 3.78 119.26 74.00 45.26 peak 412.000 113.03 3.78 116.81 54.00 62.81 AVG 501.000 50.84 3.84 54.68 74.00 -19.32 peak	385.800 49.37 3.76 53.13 54.00 -0.87 AVG 412.000 115.48 3.78 119.26 74.00 45.26 peak 412.000 113.03 3.78 116.81 54.00 62.81 AVG 501.000 50.84 3.84 54.68 74.00 -19.32 peak

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



-	Fest Mode			802.11b			est Dat			2023/10/1	6
Tes	st Frequence	су		62MHz		Po	olarizati	on		Vertical	
	Temp			23°C			Hum.			68%	
13	0.0 dBu¥/m						1				٦
12	0										
11	0					\rightarrow					_
10	0					\rightarrow					
90						<u> </u>					
80											-
70					N	TL.	E				
60	1 Martin and a complete		the state of the state of the	month		1	5	man			_
50	2 X							4. 44.14	and a second	la patri la transmitta de la companya de la company	
40											-
30											-
20											1
10	.0	2.00 2402	.00 2422.	00 2442.0	00 2462	00 240	2.00 2	502.00	2522.00	2562.00	
No. MI		Reading Level	Correct Factor	Measure ment		Margin	2.00 2	Antenna Height		2302.00	M112
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	2370.400	50.83	3.75	54.58	74.00	-19.42	peak				
2	2370.400	37.35	3.75	41.10	54.00	-12.90	AVG				
	2462.000	114.46	3.82	118.28	74.00	44.28	peak			NO Limit	
4 *	2462.000	112.62	3.82	116.44	54.00	62.44	AVG			NO Limit	
5	2489.400 2489.400	57.11 50.10	3.83	60.94 53.93	74.00 54.00	-13.06	peak AVG				
•											

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mode Test Frequency				802.11g			Test Da			2023/10	
Te			/		12MHz		P	olariza			Vertica	al
		Temp			23°C			Hum	•		68%	
	130.	0 dBuV/m										_
	120					3	γ					_
	110											_
	100					-+						
	90					_/						
	80						-h					
	70				<u>k</u> /	/*						
	60				Manuella 2			huy	where the second of		5	_
	50	ter tradicional da contra da c	and a state of the	and the state of the set	ž			w l	mar hand	www.an.		•**
	40										6 X	_
	30											_
	20											
	10.0											
	2	312.000 2332	2.00 235	2.00 2372	.00 2392	.00 2412	.00 243	2.00	2452.00	2472.00	2512.00	MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	e- Limit	Margin		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detecto	r cm	degree	Comment	
1		2388.400	65.63	3.76	69.39	74.00	-4.61	peak				
2		2388.400	49.87	3.76	53.63	54.00	-0.37	AVG				
		2412.000	117.58	3.78	121.36	74.00	47.36	peak			NO Limit	
-		2412.000	108.51	3.78	112.29	54.00	58.29	AVG			NO Limit	
5		2487.400	52.20	3.83	56.03		-17.97	peak				
6	1	2487.400	37.85	3.83	41.68	54 00	-12.32	AVG				



	est Mode			E 802.11g	j		Test Da			2023/10/1	6
Test	Frequence	су		62MHz	_	P	olarizat	ion		Vertical	
	Temp			23°C			Hum.			68%	
130	0 dBuV/m										1
120					3						
110											
100					`	-					
90						\rightarrow					
80						- (-	5				
70				*	Ŵ		-				1
60		1		n and			6				
50		and and a second	Weldingshite a work from the	Mar and			× mayor	a her and a procession	the man store the	and the second second second	1
40		2 X									
30											
20											
10.0											
2	362.000 238	2.00 2402	.00 2422.	.00 2442.	00 2462	.00 248	2.00 2	502.00	2522.00	2562.00	MHz
No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		Antenna Height			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1 :	2385.600	49.42	3.76	53.18	74.00	-20.82	peak				
	2385.600	36.26	3.76	40.02	54.00	-13.98	AVG				
	2462.000	112.28	3.82	116.10	74.00	42.10	peak			NO Limit	
	2462.000	103.66	3.82	107.48	54.00	53.48	AVG			NO Limit	
5	2483.800	68.61	3.83	72.44	74.00	-1.56	peak				

54.00 -0.52

AVG

REMARKS:

6

2483.800

(1) Measurement Value = Reading Level + Correct Factor.

3.83

53.48

(2) Margin Level = Measurement Value - Limit Value.



Test Mode	IEEE 802.11n (HT20)	Test Date	2023/10/16
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	68%
130.0 dBuV/m			
120		3	
110	- M	"X	
100			
90			
80			
	M		
70	1		
60	a second and a s	When we have a series of the s	5
50	Alexandration and a second statements of the s		6
40			×
40			
30			
30			
30 20 10.0	352.00 2372.00 2392.00 24	12.00 2432.00 2452.00 247	2.00 2512.00 MHz
30 20 10.0	ng Correct Measure-	Antenna	
30 20 10.0 2312.000 2332.00 23 Readin	ng Correct Measure- Factor ment Limit	Antenna Margin Height D	2.00 2512.00 MHz Table
30 20 10.0 2312.000 2332.00 23 Readin No. Mk. Freq. Level	ng Correct Measure- Factor ment Limit dB dBuV/m dBuV/r	Antenna [•] Margin Height D n dB Detector cm d	2.00 2512.00 MHz Table Degree
30 20 10.0 2312.000 2332.00 23 Readin No. Mk. Freq. Level MHz dBuV	ng Correct Measure- Factor ment Limit dB dBuV/m dBuV/r 3.76 64.47 74.00	Antenna Margin Height Detector cm d 9 -9.53 peak	2.00 2512.00 MHz Table Degree
30 20 10.0 2312.000 2332.00 23 Readin No. Mk. Freq. Level MHz dBuV 1 2389.200 60.71	ng Correct Factor Measure- ment Limit dB dBuV/m dBuV/r 3.76 64.47 74.00 2 3.76 49.08 54.00	Margin Antenna Height D n dB Detector cm d 0 -9.53 peak 0 -4.92 AVG	2.00 2512.00 MHz Table Degree
30 20 10.0 2312.000 2332.00 23 Readin Level MHz dBuV 1 2389.200 60.71 2 2389.200 45.32	Openant Correct Factor Measure- ment Limit dB dBuV/m dBuV/m dBuV/m 3.76 64.47 74.00 2 3.76 49.08 54.00 3 3.78 121.11 74.00	MarginAntenna HeightndBDetectorcm0-9.53peak0-4.92AVG047.11peak	2.00 2512.00 MHz Table Degree degree Comment
30 20 10.0 2312.000 2332.00 23 Readin No. Mk. Freq. Level MHz dBuV 1 2389.200 60.71 2 2389.200 45.32 3 X 2412.000 117.33	Ormet Factor Measure- ment Limit dB dBuV/m dBuV/r 3.76 64.47 74.00 3.76 49.08 54.00 3.78 121.11 74.00 3.78 121.41 54.00	Margin Antenna Height Antenna Height Antenna n dB Detector cm d 0 -9.53 peak d d 0 -4.92 AVG d d 0 47.11 peak d d 0 58.84 AVG d d	2.00 2512.00 MHz Table Degree Comment NO Limit



	-				Test Date				2023/10/16			
		st Mode	.,		2.11n (H ⁻	120)		lest Da olarizat				
	est	Frequenc Temp	у		62MHz 23°C		P	Hum.			Vertica 68%	I
	130	.0 dBu¥/m			23.0			Tiuiii.			0078	
	120					3X X	~					
	110						- <u>}</u>					
	100					(*	\rightarrow					
	90	0										
	80											
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	50	2						<u>^</u>				
	40	×										
	30											
	20											-
	10.0									2502.00	0500.00	
	2	362.000 238	Reading	02.00 2422 correct	.00 2442. Measure		.00 248	2.00 2	Antenna	2522.00 Table	2562.00	MHz
No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		Height	Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		2379.200	50.81	3.76	54.57	74.00	-19.43	peak				
2		2379.200	36.87	3.76	40.63	54.00	-13.37	AVG				
3	Х	2462.000	114.77	3.82	118.59	74.00	44.59	peak			NO Limit	
4	*	2462.000	105.74	3.82	109.56	54.00	55.56	AVG			NO Limit	
5		2484.800	67.25	3.83	71.08	74.00	-2.92	peak				
6		2484.800	49.29	3.83	53.12	54.00	-0.88	AVG				



Test Mode			2.11n (HT	40)		est Da			2023/10/1	6
Test Frequence	у		22MHz		Po	olarizat			Vertical	
Temp			23°C			Hum.			68%	
130.0 dBu∀/m										_
120				3						
110				-A.Z	}					
100				W	M					
90										
80										
70			1		1.	н.				
60	n			Jun L	Vilv	Δ		5		_
50 malloment	And the second second					Hunning	an an air construction of the second	nder Albergerung	*****	-
40								×		
30										
										1
20										1
10.0 2222.000 2262	2.00 2302	.00 2342.	00 2382.0	0 2422	.00 246	2.00 2	2502.00	2542.00	2622.00	 MHz
	Reading	Correct	Measure-				Antenna			
No. Mk. Freq.	Level	Factor	ment	Limit	Margin		Height	Degree		
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1 2384.800	62.19	3.76	65.95	74.00	-8.05	peak				
2 2384.800	49.33	3.76	53.09	54.00	-0.91	AVG				
3 X 2422.000	113.67	3.78	117.45	74.00	43.45	peak			NO Limit	
4 * 2422.000	103.87	3.78	107.65	54.00	53.65	AVG			NO Limit	
5 2541.200	55.53	4.01	59.54	74.00	-14.46	peak				
6 2541.200	41.25	4.01	45.26	54.00	-8.74	AVG				

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



Test Mode		IEEE 802			Test Date	Э		2023/10/16	3
Test Frequency	/		52MHz		Polarizatio			Vertical	
Temp		2	3°C		Hum.			68%	
130.0 dBuV/m									
120				3					
110									
100				m/x my					
90									
80									
70				- Int	5				
60		1	Mm	î	6		A.		
50 ************* ***********************	hheretween				×	prover the strength of the	Artali Personantan	het hall be an	
40		×							
30									
20									
10.0 2252.000 2292.	.00 233	2.00 2372.0	0 2412.00	2452.00 24	92.00 25	32.00	2572.00	2652.00	Hz
No. Mk. Freq.	Reading Level	Correct Factor	Measure- ment Li	mit Margi		Antenna Height	Table Degree		
MHz	dBuV	dB	dBuV/m dB	uV/m dB	Detector	cm	degree	Comment	
1 2375.200	51.25	3.76	55.01 74	.00 -18.99	peak				
2 2275 200	20.10	2.76	12.96 5/	100 11 14	AVG				

1	2375.200	51.25	3.76	55.01	74.00	-18.99	peak	
2	2375.200	39.10	3.76	42.86	54.00	-11.14	AVG	
3 X	2452.000	110.30	3.81	114.11	74.00	40.11	peak	NO Limit
4 *	2452.000	101.31	3.81	105.12	54.00	51.12	AVG	NO Limit
5	2495.200	62.20	3.84	66.04	74.00	-7.96	peak	
6	2495.200	49.11	3.84	52.95	54.00	-1.05	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



Test Mode	IEEE 802.11ax (HE20)	Test Date	2023/10/16
Test Frequency	2412MHz	Polarization	Vertical
Temp	23°C	Hum.	68%
130.0 dBuV/m			
120		X	
110		14 m	
100		* * · ·	
90			
		(Made)	
80			
70	كسلاني فليسر		
60	2	t mh.	5
50 Mary Harton and Maria and Maria and Mary Pro-		has a share a source a	nterenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenterrenter
40			6 X
30			
20			
10.0			
	52.00 2372.00 2392.00 24	12.00 2432.00 2452.00 24	472.00 2512.00 MHz
Reading	g Correct Measure-		Table
No. Mk. Freq. Level	Factor ment Limit	Margin Height	Degree
MHz dBuV	dB dBuV/m dBuV/r	n dB Detector cm	degree Comment
1 2389.000 66.49	3.76 70.25 74.00	-3.75 peak	
2 2389.000 48.23	3.76 51.99 54.00	-2.01 AVG	
3 X 2412.000 115.18	3.78 118.96 74.00	44.96 pea k	NO Limit
4 * 2412.000 103.41	3.78 107.19 54.00	53.19 AVG	NO Limit
5 2497.000 50.02	3.84 53.86 74.00	-20.14 peak	
6 2497.000 35.87	3.84 39.71 54.00	-14.29 AVG	

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



					Toot Doto				2022/10/16			
		est Mode			2.11ax (H	E20)		Test Da			2023/10/	
	est	Frequenc	;y		62MHz 23°C		Р	olarizat Hum.			Vertical 68%	
		Temp			23 0			Hum.			00%	
	130).0 dBu∀/m										7
	120	ı					3					-
	110	ı				Marth	4					-
	100	,				<u>r</u>	×W					
	90											
	80											
	70						5	×				1
	60				. where	4 4		6				1
	50	and the property of the second		water have been	Mary half april 10			X News	hardelikersenere	homphanical	mounderstrages	*
	40		2 X									{
	30											
	20											
	10.	o										
		2362.000 238		02.00 2422			.00 248	2.00 2		2522.00	2562.00	MHz
No.	Mk	. Freq.	Reading Level	g Correct Factor	Measure ment	- Limit	Margin		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		2385.400	47.54	3.76	51.30	74.00	-22.70	peak				
2		2385.400	36.82	3.76	40.58	54.00	-13.42	AVG				
3	Х	2463.400	111.10	3.82	114.92	74.00	40.92	peak			NO Limit	
4	*	2463.400	102.30	3.82	106.12	54.00	52.12	AVG			NO Limit	
5		2484.000	64.04	3.83	67.87	74.00	-6.13	peak				
6		2484.000	48.27	3.83	52.10	54.00	-1.90	AVG				

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



		st Mode		IEEE 802		E40)		Fest Da			2023/10	
Te		requenc	у		22MHz		P	olarizat	ion		Vertica	
		Temp			23°C			Hum.			68%	
	130.	0 dBuV/m						1				-
	120					3	N					_
	110						hn					_
	100											_
	90											_
	80											_
	70							4				-
	60					'yu	W	5				_
	50	an to be a second and a second as the second	belesensingly altered	all the second second	www.	~		6	an the Margon and a solar solar	mertheterne	and and the second s	
	40							×				_
	30											_
	20											
	10.0											
	2	222.000 226	2.00 23	02.00 2342	.00 2382	.00 2422	.00 246	2.00 2	502.00	2542.00	2622.0) MHz
No.	Mk.	Freq.	Reading Level	g Correct Factor	Measure ment	e- Limit	Margin		Antenna Height			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	2	2385.600	68.50	3.76	72.26	74.00	-1.74	peak				
2		2385.600	49.39	3.76	53.15	54.00	-0.85	AVG				
3		2422.000	115.31	3.78	119.09	74.00	45.09	peak			NO Limit	
4		2422.000	103.79	3.78	107.57	54.00	53.57	AVG			NO Limit	
5		2485.200	54.41	3.83	58.24	74.00	-15.76	peak				
6	2	2485.200	40.22	3.83	44.05	54.00	-9.95	AVG				

- Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value Limit Value.



		est Mode		IEEE	802.11ax (Test D			2023/10/	
T	est	Frequen	су		2452MHz			Polariza			Vertica	l
		Temp			23°C			Hum).		68%	
	130	.0 dBu∀/m										-
	120						3					_
	110					- Am	Marine .					
	100					, Y	×m					-
	90											_
	80											_
	70							5				-
	60				س ج	\mathcal{N}_{-}	h	6		Λ		_
	50	www.white	annaha daaselewe	Mununum	2			- ww	na particular and for a stress	normal homestarity	mummunality	~
	40 30				Î							1
	30 20											
	10.0											
		252.000 229	2.00 23	32.00 2	372.00 241	12.00 24	52.00 2	492.00	2532.00	2572.00	2652.00	 MHz
No.	Mk.	Freq.	Readin Level	g Corre Facto			Margi	n	Antenna Height	a Table Degree		
		MHz	dBuV	dB	dBuV/r	n dBuV/	m dB	Detecto	r cm	degree	Comment	
1		2374.000	49.01	3.7	5 52.76	5 74.00	0 -21.24	peak				
2		2374.000	37.23	3.7	5 40.98	54.00	0 -13.02	AVG				
		2452.000	110.80					peak			NO Limit	
		2452.000	100.48					AVG			NO Limit	
5		2489.600	62.29					peak				
6		2489.600	48.94	3.83	3 52.77	54.00	0 -1.23	AVG				



	Mode				02.11						Date					023/9/	
	equency				MHz				P		izatio	n				Vertica	al
Te	emp			25	°C					H	um.					45%	
130.0 d	dBuV/m																
120																	
110																	
100																	
90																	
80																	
70									_								
60		1															
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30									_								
20															_		{
10.0																	
1000.0	000 3550.00	6100.0	0 8650	0.00	1120	0.00	13750	0.00	1630	0.00	1885	0.00	2140	0.00		26500.00	MHz
No. Mk.	Freq.	Reading Level	Corre Facte		Meası men		Limit	t I	Margi	n							
	MHz	dBuV	dB		dBuV/	m	dBuV/n	n	dB	D	etector	Co	mmen	t			
1 4824.000 41.5		41.51	9.9	9	51.5	0	74.00) -	22.50) p	beak						

54.00 -12.82 AVG

REMARKS:

2 * 4824.000

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

9.99

41.18



	Test Mede								
	est Mode			802.11b			est Date		2023/9/10
Tes	t Frequer	псу		12MHz		Po	olarizatio	on	Horizontal
	Temp		4	25°C			Hum.		45%
130.0 Г	dBu∀/m								
120									
110									
100									
90									
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60									
50		× 2							
40		×							
30									
20									
10.0									
10	00.000 3550	.00 6100.0	0 8650.00	11200.00	13750.00	16300.	00 18850	0.00 21400.00	26500.00 MHz
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1									
-							· ·		
1 2 *	4824.000 4824.000		9.99 9.99	50.30 40.59	74.00 54.00	-23.70 -13.41	peak AVG		



				000 441					0000/0/10
	est Mode	,		802.11b 7MHz			est Date Iarizatio		2023/9/10 Vertical
Test	Frequency Temp	/		5°C		FU	Hum.		45%
	төттр		2	50			Tium.		4370
130.0	dBu∀/m								
120 -									
110									
100									
90									
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60									
50		×							
40		2 X							
30									
20									
10.0									
100	0.000 3550.00		8650.00	11200.00	13750.0	0 16300.	00 18850	0.00 21400.00	26500.00 MHz
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	4874.000	40.62	10.14	50.76	74.00	-23.24	peak		
2 *	4874.000	30.24	10.14	40.38	54.00	-13.62	AVG		



Test Mode	IEEE 802.11b	Test Date	2023/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
60			
50	×		
	2 X		
30			
20			
10.0			
1000.000 3550.00	6100.00 8650.00 11200.00 137	50.00 16300.00 18850.00 2	1400.00 26500.00 MHz
	Reading Correct Measure-	iit Margin	
	Level Factor ment Lin dBuV dB dBuV/m dBuV		nent
IVITIZ		an ab Delector Com	licit

54.00 -14.70

AVG

REMARKS:

2 * 4874.000

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

10.14

39.30



-					_	-			
	est Mode			802.11b			est Date		2023/9/10
rest	Frequenc	;y		62MHz 25°C		P0	larizatio Hum.	n	Vertical 45%
	Temp		2	50			num.		43%
130.0	dBuV/m								
[
120									
110									
100									
90									
80									
70									
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50		×							
		2 X							
40		^							
30									
20									
10.0									
10	00.000 3550.0	0 6100.00	8650.00	11200.00	13750.00	16300.0	00 18850	0.00 21400.00	26500.00 MHz
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
NO. IVIN	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	4924.000	40.70	10.28	50.98	74.00	-23.02	peak	comment	
							-		
2 *	4924.000	31.64	10.28	41.92	54.00	-12.08	AVG		



Test Mode	IEEE 802.11b	Test Date	2023/9/10
Test Frequency	2462MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%
130.0 dBuV/m			
120			
110			
100			
90			
80			
70			
60			
50 1 ×			
40 2 X			
30			
20			
10.0			
1000.000 3550.00 6100.	00 8650.00 11200.00 1375	0.00 16300.00 18850.00 21400.00	26500.00 MHz

	No.	Mk	. Freq.		Factor	ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		4924.000	40.54	10.28	50.82	74.00	-23.18	peak	
-	2	*	4924.000	29.35	10.28	39.63	54.00	-14.37	AVG	



Test Mode	IEEE 802.11g	Test Date	2023/9/10
Test Frequency	2412MHz	Polarization	Vertical
Temp	25°C	Hum.	45%
130.0 dBuV/m			
120			
110			
100			
90			
80			
70			
60 1 50 ×			
50 X 2 40 X			
30			
20			
10.0			
1000.000 3550.00 61	100.00 8650.00 11200.00 137	50.00 16300.00 18850.00	21400.00 26500.00 MHz
Read No. Mk. Freq. Lev		it Margin	
MHz dBu	uV dB dBuV/m dBuV	/m dB Detector Com	nment
1 4824.000 41.3	37 9.99 51.36 74.0	0 -22.64 peak	

54.00 -12.03 AVG

REMARKS:

2 * 4824.000

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

9.99

41.97



Те	st Mode		IEEE	802.11g		-	Test Dat	e	2023/9/10
	Frequency	/		12MHz			olarizati		Horizontal
	Temp		2	25°C			Hum.		45%
130.0	dBu∀/m								
120									
110									
100									
90									
80 -									
70									
60									
50		X							
40		2 X							
30									
20									
10.0 100	0.000 3550.00	6100.00	8650.00	11200.00	13750.0	16300.	.00 1885	0.00 21400.00	26500.00 MHz
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	1		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 4	4824.000	40.19	9.99	50.18	74.00	-23.82	peak		
2 *	4824.000	30.12	9.99	40.11	54.00	-13.89	AVG		



	Test Mod			E 802.11g			est Date		2023/9/10
Tes	st Freque	ncy	24	37MHz			arization		Vertical
	Temp			25°C			Hum.		45%
130.0) dBu∀/m								
120									
110									
100									
90									
80									
70									
60		ż							
50		2							
40 30		×							
30 20									
10.0									
	00.000 3550).00 6100	0.00 8650.00	11200.00	13750.00	16300.00	0 18850.00) 21400.00	26500.00 MHz
lo. Mi	k. Freq.	Readir Level		Measure- ment	Limit	Margin			
. m	MHz	dBuV		dBuV/m	dBuV/m		Detector (Comment	
								Johnment	
1	4874.000) 40.86	6 10.14	51.00	74.00	-23.00	peak		

54.00 -14.44

AVG

REMARKS:

2 * 4874.000

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.

10.14

39.56



Test Mo	de	IEEE	802.11g		Т	est Date		2023/9/10
Test Frequ			87MHz			larizatio		Horizontal
Temp			5°C			Hum.		45%
130.0 dBuV/	m							
120								
110								
100								
90								
80								
70								
60								
50	×							
40	2 X							
30								
20								
10.0								
1000.000 3			11200.00	13750.00	16300.0	00 18850	.00 21400.00	26500.00 MHz
lo. Mk. Fr	Reading eq. Level	Correct Factor	Measure- ment	Limit	Margin			
M	Hz dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 4874.0	000 40.37	10.14	50.51	74.00	-23.49	peak		
2 * 4874.0	000 29.34	10.14	39.48	54.00	-14.52	AVG		



Test Mode	IEEE 802.11g	Test Date	2023/9/10	
Test Frequency	2462MHz	Polarization	Vertical	
Temp	25°C	Hum.	45%	
100.0 10 1/1				
130.0 dBu∀/m				
120				
110				
100				
90				
80				
70				
50				
50 1 ×				
40 2 X				
30				
20				
10.0				
1000.000 3550.00 6100.0	0 8650.00 11200.00 1375	0.00 16300.00 18850.00 21400.00	26500.00 MHz	

	No.	Mk	. Freq.	Level	Factor	ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		4924.000	40.50	10.28	50.78	74.00	-23.22	peak	
	2	*	4924.000	29.76	10.28	40.04	54.00	-13.96	AVG	



	Test Mod			802.11g			est Date		2023/9/10
Te	st Freque	ncy		62MHz		Po	olarizatio	on	Horizontal
	Temp			25°C			Hum.		45%
130.0	0 dBu∀/m								
120									
110									
100									
90									
80									
70									
60									
50		1 × 2							
40		×							
30									
20									
10.0									
10	00.000 3550	.00 6100.00	8650.00	11200.00	13750.00	16300.0	00 18850	.00 21400.00	26500.00 MHz
No. M	k. Freq.	Reading	Correct	Measure-	Limit	Margin			
NO. IVI	-		Factor	ment		_	Detector		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	4924.000		10.28	50.95		-23.05	peak		
2 *	4924.000	31.55	10.28	41.83	54.00	-12.17	AVG		



Toot Modo					20) Test Data 2022				
	est Mode			2.11n (HT)	20)		Test Date		2023/9/10
Test	Frequence	су		12MHz		P	olarizatio	on	Vertical
	Temp		2	25°C			Hum.		45%
130.0	dBu∀/m								
120									
110									
100									
90									
80									
70									
60		1							
50		1 X 2 X							
40		×							
30									
20									
10.0	0 000 2550 0	0 0100 00	0050.00	11200.00	10750.00	1000	00 1005	00 21400.00	20500 00 MIL-
100	0.000 3550.0		8650.00	11200.00	13750.00) 16300	.00 18850	0.00 21400.00	26500.00 MHz
No. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margir	ı		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	4824.000	41.18	9.99	51.17	74.00	-22.83			
2 *	4824.000	31.91	9.99	41.90	54.00	-12.10	AVG		



T (M 1.		-			Tast Data				0000/0//0	
	Test Mode			02.11n (HT	20)		est Dat			2023/9/10
Tes	st Freque	ncy	2	412MHz		Po	olarizatio	on		Horizontal
	Temp			25°C			Hum.			45%
130.0) dBuV/m									
100										
120										
110										
100										
90										
90										
80										
70										
60										
50		×								
40		2 X								
30										
20										
10.0										
10	00.000 3550	.00 6100	0.00 8650.0	0 11200.00	13750.0	D 16300.0	00 1885	0.00 2140	0.00	26500.00 MHz
	-	Readir				Morgin				
No. M					Limit	Margin				
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Commen	t	
1	4824.000	40.50	9.99	50.49	74.00	-23.51	peak			

40.33 54.00 -13.67 AVG

REMARKS:

2 * 4824.000

(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

9.99



Test Mode	IEEE 802.11n (HT20) 2437MHz	Test Date Polarization	2023/9/10 Vertical
Test Frequency Temp	2437MHZ 25°C	Hum.	45%
130.0 dBuV/m			
120			
110			
100			
90			
80			
70			
60			
50 ×			
40 <u>2</u>			
30			
20			
10.0			
1000.000 3550.00 610	0.00 8650.00 11200.00 13750	00 16300.00 18850.00 21400.0	0 26500.00 MHz
Read b. Mk. Freq. Leve		Margin	

	No. M	k.	Freq.	Level	Factor	ment	Limit	Margin		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1 *	487	4.000	40.24	10.14	50.38	74.00	-23.62	peak	
-	2	487	74.000	31.24	10.14	41.38	74.00	-32.62	peak	



Test Maria									0000/0//0	
	est Mode			2.11n (HT2	0)		est Date		2023/9/10	
Test	Frequency	y		37MHz		Polarization			Horizontal	
	Temp		2	5°C			Hum.		45%	
130.0 Г	dBu∀/m									
120										
110										
100										
90										
80										
70										
60										
50		X								
40		2 X								
30										
20										
10.0										
10	00.000 3550.00	0 6100.00	8650.00	11200.00	13750.0	D 16300.0	00 18850	0.00 21400.00	26500.00 MHz	
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin				
NO. WIK	MHz	dBuV	dB		dBuV/m	dB	Detector	Comment		
4								Comment		
1	4874.000	39.91	10.14	50.05	74.00	-23.95	peak			
2 *	4874.000	29.34	10.14	39.48	54.00	-14.52	AVG			



Temp 130.0 dBuV/m 120 110		25°C		Hu	m.	45%
120						
110						
100						
90						
80						
70						
60						
50	1 X 2					
40	x					
30						
20						
10.0	50.00 6100.00	8650.00 11	200.00 13750.0	0 16300.00	18850.00 214	00.00 26500.00 MHz
1000.000 55	Reading		asure-	10300.00	18650.00 214	20300.00 MH2
o. Mk. Fre	q. Level		ent Limit	Margin		
MH			IV/m dBuV/m	dB Dete		nt
1 4924.00			.80 74.00		ak	
2 * 4924.00	00 31.54	10.28 41	.82 54.00	-12.18 A\	/G	
	= Measureme					



Test Mode Test Frequency	IEEE 802.11n (HT20) 2462MHz	Test Date Polarization	2023/9/10 Horizontal
Temp	240210112 25°C	Hum.	45%
100.0 10 1/1		·	
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
50			
50 1 X			
40 2 X			
30			
20			
10.0			
1000.000 3550.00 610	0.00 8650.00 11200.00 1375	0.00 16300.00 18850.00 21400.00	26500.00 MHz

	No.	Mk.	Freq.	Level			Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		4924.000	41.55	10.28	51.83	74.00	-22.17	peak	
-	2	*	4924.000	32.15	10.28	42.43	54.00	-11.57	AVG	



Test Mode			IEEE 802	2.11n (HT4	L())	Test Date			2023/9/10	
	Frequency			2MHz			arizatior	1	Vertical	
	Temp	/		5°C			Hum.		45%	
130.0	dBu∀/m	·								
130.0	0004710									
120 -										
110										
100										
90 -										
80 -										
70										
60										
50		×								
40		2 X								
30 -										
20										
10.0										
1000	0.000 3550.00	6100.00	8650.00	11200.00	13750.00	16300.0	0 18850.	00 21400.00	26500.00 MHz	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin				
19. mil.	MHz	dBuV	dB	dBuV/m	dBuV/m		Detector	Comment		
1 4	1844.000	40.16	10.04	50.20	74.00	-23.80	peak	Someone		
	4844.000	31.42	10.04	41.46	54.00	-12.54	AVG			



Test Mode					(0)	-			0000/0/40
				2.11n (HT4	40)		est Date		2023/9/10
Test	Frequenc	у		22MHz 25°C		PC	larizatio	n	Horizontal 45%
	Temp		4	250			Hum.		40%
130.0	dBu∀/m								
Γ									
120									
110									
100									
90									
80									
70									
60									
50		1 X							
40		2 X							
30									
20									
10.0 10	00.000 3550.00	0 6100.00	8650.00	11200.00	13750.00	16300.	00 18850	.00 21400.00	26500.00 MHz
		Reading	Correct	Measure-					
No. Mk	. Freq.	Level	Factor	ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	4844.000	40.26	10.04	50.30	74.00	-23.70	peak		
2 *	4844.000	31.05	10.04	41.09	54.00	-12.91	AVG		



Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency Temp	2437MHz 25°C	Polarization Hum.	Vertical 45%
Temp	25 0	num.	40 /0
130.0 dBuV/m			
120			
110			
100			
90			
80			
70			
60			
50 1 X 2			
40 ×			
30			
20			
10.0			
1000.000 3550.00 610	0.00 8650.00 11200.00 13750	.00 16300.00 18850.00 21400.0	0 26500.00 MHz

	No.	Mk	. Freq.	Level		ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		4874.000	40.00	10.14	50.14	74.00	-23.86	peak	
-	2	*	4874.000	31.51	10.14	41.65	54.00	-12.35	AVG	



T (N A)		T (D (0000/0/40
Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
60			
50 × 2			
40 ×			
30			
20			
10.0			
1000.000 3550.00 6	100.00 8650.00 11200.00 1375	0.00 16300.00 18850.00 21400.	00 26500.00 MHz
Read No. Mk. Freq. Lev		t Margin	
MHz dB	uV dB dBuV/m dBuV/	m dB Detector Comment	
1 4874.000 40.	60 10.14 50.74 74.0) -23.26 peak	

54.00 -14.12 AVG

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

10.14

39.88

2 * 4874.000 29.74



Test Mode	IEEE 802.11n (HT40)	Test Date	2023/9/10
Test Frequency	2452MHz	Polarization	Vertical
Temp	25°C	Hum.	45%
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
60			
50 1 2			
40 ×			
30			
20			
10.0 1000.000 3550.00 6	6100.00 8650.00 11200.00 13750	.00 16300.00 18850.00 21	400.00 26500.00 MHz
	ding Correct Measure-		
lo. Mk. Freq. Le		5	
MHz dB	3uV dB dBuV/m dBuV/n .21 10.22 51.43 74.00		ent

54.00 -11.37 AVG

REMARKS:

2 * 4904.000

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

10.22

42.63



	Test Mode			2.11n (HT4	40)		est Date		2023/9/10
Tes	st Freque	ncy		52MHz		Po	olarizatio	on	Horizontal
	Temp			25°C			Hum.		45%
130.0) dBu∀/m								
100.0									
120									
110									
100									
90									
80									
70									
60		1							
50		×							
40		2 X							
30									
20									
10.0									
10	000.000 3550	.00 6100.00	8650.00	11200.00	13750.00	16300.	00 18850	0.00 21400.00	26500.00 MHz
		Reading	Correct	Measure-	Limit	Morgin			
No. Mł			Factor	ment		Margin			
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	4904.000		10.22	51.17	74.00	-22.83	peak		
2 *	4904.000	28.99	10.22	39.21	54.00	-14.79	AVG		



Test Mode Test Frequency				.11ax (HE	20)	Test Date				2023/9/10	
			2412MHz				Polariza			Vertical	
Temp			25°C				Hum			45%	
130 () dBuV/m										
150.0											
120											
110											
100											
90											
80											
70											
60											
50		× ×									
40		2 X									
30											
20											
10.0											
10	00.000 3550.0	0 6100.00	8650.00	11200.00	13750.00) 1630	.00 188	50.00	21400.00	26500.00 MHz	
		Reading	Correct	Measure-							
No. M	· · · ·	Level	Factor	ment	Limit	Margi	n				
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detecto	r Co	mment		
1	4824.000	40.82	9.99	50.81	74.00	-23.19	peak				
2 *	4824.000	30.26	9.99	40.25	54.00	-13.75	AVG				



		Mode		IEE	E 802			20)				st Da					8/9/10
Test		equency	/			2MH	Z					arizat					zontal
	Te	mp			2	5°C					ł	Hum.				 45	5%
130	.0	dBuV∕m															-
120																	
110																	_
100																	
90																	-
80																	
70																	
60			1														
50			Ý 2														
40			× X														
30																	
20 10.0																	
		000 3550.0	0 6100	.00	8650.00	112	00.00	1375	0.00	1630	0.00	1885	i0. 0 0	2140	0.00	 26500.0	O MHz
No. N	lk.	Freq.	Readin Level		orrect Factor	Meas me		Lim	it	Marg	in						
		MHz	dBuV		dB	dBu∖	/m	dBu₩	m	dB	D	etector	Co	mmer	nt	 	
1	48	324.000	41.47		9.99	51.4	16	74.0	0	-22.54	1	peak					
2 *	48	324.000	30.13		9.99	40.1	2	54.0	0	-13.8	3 /	AVG					



	Mode requenc	:V	IEEE		<u>11ax (</u> 7MHz		20)			<u>Test</u> Polari						8/9/10 tical
	emp	,y			5°C				<u> </u>		im.	511				5%
130.0	dBu∀/m															
120																
110																_
100				_												_
90				_												_
80																_
70				_												
60				_												_
50		1 X														
40		2 X		_												_
30																_
20				_												_
10.0	.000 3550.	00 610	0.00 86	650.00	1120)0.00	1375	0.00	1630	0.00	1885	60.00	2140	0.00	2650	0.00 MHz
o. Mk.	Freq.	Readir	ng Cor	rect	Meas	ure-	Lim		Marg							
0. IVIN.	MHz	dBuV			dBuV		dBuV		dB		tector		mmen			

74.00 -23.11

54.00 -13.58

peak

AVG

REMARKS:

1

2 *

4874.000

4874.000

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

10.14

10.14

50.89

40.42

40.75



-	Fest Mode			.11ax (HE2	20)	т	est Date		2023/9/10
	t Frequency			37MHz	20)		olarizatio		Horizontal
100	Temp	,		25°C			Hum.		45%
130.0	•								
120									
110									
100									
90									
80									
70									
60									
50		1 X 2							
40		2 X							
30									
20									
10.0 10	00.000 3550.00	6100.00	8650.00	11200.00	13750.00	16300.	00 18850	0.00 21400.00	26500.00 MHz
		Reading	Correct	Measure-	1				
No. Mł		Level	Factor	ment	Limit	Margin			
	MHz	dBuV	dB		dBuV/m	dB	Detector	Comment	
1	4874.000	40.59	10.14	50.73	74.00	-23.27	peak		
2 *	4874.000	31.53	10.14	41.67	54.00	-12.33	AVG		



MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 4924.000 41.91 10.28 52.19 74.00 -21.81 peak 2 * 4924.000 31.64 10.28 41.92 54.00 -12.08 AVG Measurement Value = Reading Level + Correct Factor.	Temp 25°C Hum. 45% 30.0 dBuV/m	Temp 25°C Hum. 45% 130.0 dBuV/m	Temp 25°C Hum. 45% 130.0 dBuV/m	Temp 25°C Hum. 45% 130.0 dBuV/m	Temp 25°C Hum. 45% 130.0 dBuV/m	Temp 25°C Hum. 45% 130.0 dBuV/m	Temp 25°C Hum. 45% 130.0 dBuV/m	Temp 25°C Hum. 45% 130.0 d8uV/m	Test	_			.11ax (HE	20)		est Date			2023/9/10
130.0 dBuV/m 120	30.0 dBuV/m 20	30.0 dBuV/m 120	130.0 dBuV/m 120	130.0 dBuV/m 120	130.0 dBuV/m 120	130.0 dBuV/m 120	130.0 dBuV/m 120	130.0 dBuV/m 120			y						n		
120 10 <t< th=""><th>20 </th><th>120 10 <t< th=""><th>120 100 1</th><th>120 100 1</th><th>120 100 1</th><th>120 10 10 10 10 10 10 10 10 10 10 10 100</th><th>120 10 <t< th=""><th>120 10 10 10 10 10 10 10 10 10 10 100</th><th></th><th>Iemp</th><th></th><th>2</th><th>25°C</th><th></th><th></th><th>Hum.</th><th></th><th></th><th>45%</th></t<></th></t<></th></t<>	20	120 10 <t< th=""><th>120 100 1</th><th>120 100 1</th><th>120 100 1</th><th>120 10 10 10 10 10 10 10 10 10 10 10 100</th><th>120 10 <t< th=""><th>120 10 10 10 10 10 10 10 10 10 10 100</th><th></th><th>Iemp</th><th></th><th>2</th><th>25°C</th><th></th><th></th><th>Hum.</th><th></th><th></th><th>45%</th></t<></th></t<>	120 100 1	120 100 1	120 100 1	120 10 10 10 10 10 10 10 10 10 10 10 100	120 10 <t< th=""><th>120 10 10 10 10 10 10 10 10 10 10 100</th><th></th><th>Iemp</th><th></th><th>2</th><th>25°C</th><th></th><th></th><th>Hum.</th><th></th><th></th><th>45%</th></t<>	120 10 10 10 10 10 10 10 10 10 10 100		Iemp		2	25°C			Hum.			45%
110	100 1	10	100	110	110	110	110	110	130.0	dBu∀/m									
110	100 1	10	100	110	110	110	110	110											
100 90 <t< td=""><td>Image: constraint of the second system of</td><td>100 1</td><td>100 </td><td>100 </td><td>100 </td><td>100 </td><td>100 90 <t< td=""><td>100 90 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></td></t<></td></t<>	Image: constraint of the second system of	100 1	100	100	100	100	100 90 <t< td=""><td>100 90 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<></td></t<>	100 90 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
90 90 <td< td=""><td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>30 </td><td>90 <td< td=""><td>30 </td><td>90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<></td></td<></td></td<></td></td<></td></td<></td></td<>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30	90 90 <td< td=""><td>30 </td><td>90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<></td></td<></td></td<></td></td<></td></td<>	30	90 90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<></td></td<></td></td<></td></td<>	90 90 <td< td=""><td>90 <td< td=""><td>90 <td< td=""><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<></td></td<></td></td<>	90 90 <td< td=""><td>90 <td< td=""><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<></td></td<>	90 90 <td< td=""><td>110</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	110										
80	1 1	30 Image: Second State Sta	80	80	80	80	80	80	100										
70 1	1 1	1 1	70 1	70 1	70 1	70 1	70 1	70 1	90										
60 1	1 1	30 1 -	60 1	50 1	60 1	60 1	60 1	60 1	80										
1 X Image: Contract of the contrect of the contract of the contract of the contract of the contra	1 2 1	1 1	50 1 2 30 2 30 2 30<	1 1	50 1 X Image: Contract of the second s	50 1 <th1< th=""> <th1< th=""></th1<></th1<>	1 X Image: Contract of the contrect of the contract of the contract of the contract of the contra	1 2 20 2 2 30 2 3 </td <td>70</td> <td></td>	70										
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									2 * Ieasu	4924.000 Irement Va	31.64 Ilue = Rea	10.28 ding Leve	41.92 el + Corre	54.00 ct Factor	-12.08				
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									2 * leasu	4924.000 Irement Va	31.64 Ilue = Rea	10.28 ding Leve	41.92 el + Corre	54.00 ct Factor	-12.08				
									2 * leasu	4924.000 Irement Va	31.64 Ilue = Rea	10.28 ding Leve	41.92 el + Corre	54.00 ct Factor	-12.08				
									2 * leasu	4924.000 Irement Va	31.64 Ilue = Rea	10.28 ding Leve	41.92 el + Corre	54.00 ct Factor	-12.08				



Test Mode			.11ax (HE	20)		est Date		2023/9/10
Test Frequer	псу		62MHz			larization		Horizontal
Temp		2	25°C			Hum.		45%
130.0 dBu∀/m								
120								
110								
100								
90								
80								
70								
60								
50	*							
40	2 X							
30								
20								
10.0 1000.000 3550	.00 6100.0	00 8650.00	11200.00	13750.00	16300.0	0 18850.00	0 21400.00	26500.00 MHz
o. Mk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 4924.000	38.88	10.28	49.16	74.00	-24.84	peak		

54.00 -15.60 AVG

REMARKS:

2 * 4924.000

Measurement Value = Reading Level + Correct Factor.
 Margin Level = Measurement Value - Limit Value.

10.28

38.40



Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	2422MHz	Polarization	Vertical
Temp	25°C	Hum.	45%
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
60			
50 × 2 40 ×			
40 X 30			
20			
10.0			
1000.000 3550.00 6	100.00 8650.00 11200.00 13750	0.00 16300.00 18850.00 21400.	.00 26500.00 MHz
Read No. Mk. Freq. Lev		t Margin	
MHz dBu	uV dB dBuV/m dBuV/r	m dB Detector Comment	
1 4844.000 40.1	25 10.04 50.29 74.00) -23.71 peak	

54.00 -12.29 AVG

REMARKS:

4844.000

2 *

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

10.04

41.71



Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	2422MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
60			
50 2			
40 ×			
30			
20			
10.0			
1000.000 3550.00 61	100.00 8650.00 11200.00 137	50.00 16300.00 18850.00 2140	00.00 26500.00 MHz
Read		1. M	
lo. Mk. Freq. Lev		3	
MHz dBu	uV dB dBuV/m dBuV	//m dB Detector Commer	nt
1 4844.000 40.3	39 10.04 50.43 74.0	00 -23.57 peak	
2 * 4844.000 30.3	35 10.04 40.39 54.0	00 -13.61 AVG	



	Test Mode			.11ax (HE	40)		est Date		2023/9/10
le	st Frequenc	у		37MHz			larizatio	า	Vertical
	Temp			25°C			Hum.		45%
130.	0 dBu∀/m								
120									
110									
100									
90									
80									
70									
60									
50		2 X							
40		×							
30									
20 10.0									
1	000.000 3550.0	0 6100.00	8650.00	11200.00	13750.00) 16300.0	0 18850.	00 21400.0	0 26500.00 MHz
	l. Enc	Reading	Correct	Measure-	Limit	Morgin			
No. M	k. Freq. MHz	Level dBuV	Factor dB	ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment	
1	4874.000	40.36	10.14	50.50	74.00	-23.50	peak	comment	
2 *	4874.000	30.21	10.14	40.35	54.00	-13.65	AVG		



Test Mode	IEEE 802.11ax (HE40		2023/9/10
Test Frequency	2437MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%
130.0 dBu∀/m			
120			
110			
100			
90			
80			
70			
60			
50 X			
40 2 ×			
30			
20			
10.0			
1000.000 3550.00 61	00.00 8650.00 11200.00 1	3750.00 16300.00 18850.00 2140	0.00 26500.00 MHz
Read b. Mk. Freq. Leve		imit Margin	

No	Mk	. Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	40.27	10.14	50.41	74.00	-23.59	peak	
2	*	4874.000	29.59	10.14	39.73	54.00	-14.27	AVG	



	st Mode		IEEE		1ax (HI	E40)				Date			2023/	
	Frequenc	cy		2452				F		zation			Vert	
	Temp			25	°C				ΗU	ım.			45	%
130.0	dBuV/m													_
120														
110														_
100														_
90														_
80														_
70														
60		1												
50		×												_
40		2 X												
30														_
20														
10.0														
1000.	.000 3550.00	0 6100.	.00 865	D.00	11200.00	1375	50.00	1630	D.00	18850.00	214	00.00	26500	.00 MHz
No. Mk.	Freq.	Readin Level	g Corre Fact		leasure- ment	Lim	it	Margi	n					
	MHz	dBuV	dB	d	dBuV/m	dBuV	/m	dB	Det	ector	Comme	nt		

74.00 -22.79

54.00 -13.56

peak

AVG

REMARKS:

1

4904.000

2 * 4904.000

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

10.22

10.22

51.21

40.44

40.99



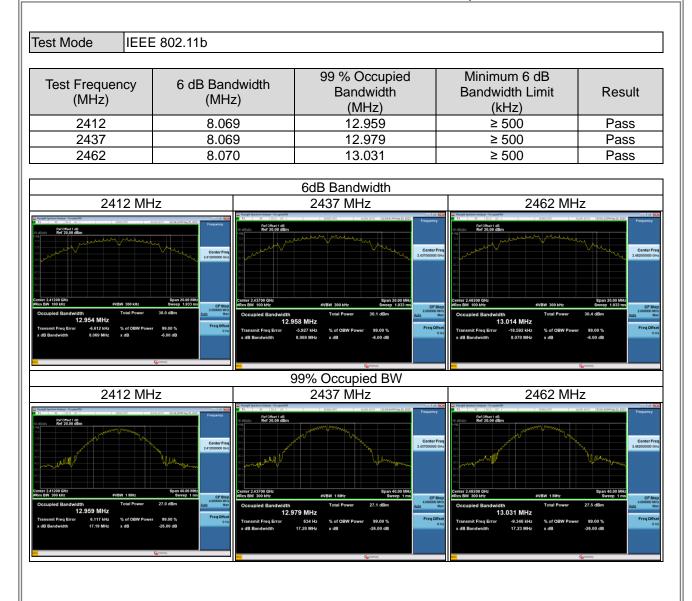
Test Mode	IEEE 802.11ax (HE40)	Test Date	2023/9/10
Test Frequency	2452MHz	Polarization	Horizontal
Temp	25°C	Hum.	45%
I			
130.0 dBuV/m			
120			
110			
100			
90			
80			
70			
60			
50 1 X			
40 2 X			
30			
20			
10.0			
1000.000 3550.00	6100.00 8650.00 11200.00 1375	0.00 16300.00 18850.00 21400	.00 26500.00 MHz
Rea	ading Correct Measure-	it Morain	
o.Mk. Freq. Le	evel Factor ment Limi	it Margin	

MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 4904.000 41.97 10.22 52.19 74.00 -21.81 peak 2 * 4904.000 31.45 10.22 41.67 54.00 -12.33 AVG	No.	Mk	. Freq.	Level	Factor	ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
2 * 4904.000 31.45 10.22 41.67 54.00 -12.33 AVG	1		4904.000	41.97	10.22	52.19	74.00	-21.81	peak	
	2	*	4904.000	31.45	10.22	41.67	54.00	-12.33	AVG	



APPENDIX D BANDWIDTH







Test Mode IEEE	802.11g								
Test Frequency (MHz)	6 dB Bandv (MHz)	6 dB Bandwidth (MHz)		ccupied width Hz)	Bandwi	Minimum 6 dB Bandwidth Limit F (kHz)			
2412	16.340		16.512		≥ :	≥ 500 F			
2437	16.350		16.585		≥ :	≥ 500 Pas			
2462	16.350		16.485		≥ :	≥ 500 Pa			
6dB Bandwidth									
2412 MH	z		2437 MH	Z		2462 MHz			
Arristmen i Berner i	27.3 dBm 99.00 % -6.00 dB 	fransmit Freq Error dB Bandwidth	even 300 Miz Total Power 56 MHz 10/7 Mit 2: Kot O'BW Power 10:35 MHz Xot O'BW Power 10:35 MHz Xot O'BW Power	30.1 dBm 4.00 2000 99.00 % Freq 6.00 dB 2000 Freq ed BW	Figure 1 Center 2.45200 GHz Res BW 100 Mz Cocupied Bandwidth 16	5.336 MHz -1.502 kHz % of OBW Pow 16.35 MHz x dB	Control File C		
2412 MH	Z		2437 MH	Z		2462 MHz			
Control Alexandro Ref 23.00 dbm Med 20.00 dbm Me	28.1 dBm Auto Man O 99.00 % Freq Offset 0 Hz Th	ransmit Freq Error	stear of the second sec	Center South and Allow South and	F Step Tests Burgers Center 2.45200 GHz Tests Bur 300 Mzz Occupied Bandwidti 16	WBW 1 MHz #VBW 1 MHz h Total Power 1485 MHz % of OBW Pow 19.45 MHz % dB	Line Line (Line Line (Line Line Line Line Line Line Line Line		



Test Mode IEEE	E 802.11n (HT20)				
Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result	
2412	17.330	17.570	≥ 500	Pass	
2437	16.930	17.627	≥ 500	Pass	
2462	17.260	17.593	≥ 500	Pass	
		6dB Bandwidth			
2412 MH	lz	2437 MHz	2462 MHz		
Constant 1 de la della d	Argument Book 10, 200 Min Book 10, 200 Min Bo	7.528 MHZ -8.511 MHZ % of OBW Power 98.00 % 16.53 MHZ x dB -4.00 dB -6.00 dB	Center 2 4 2006 GHz Provide Bandwidth Total Power 17.544 MHz	Center Freq 2.4500000 GHz 2.4500000 GHz 2.4500000 Hz 2.450000 Hz 2.250 GHz r 99.00 % 6.00 dB	
2412 MF	1	99% Occupied BW 2437 MHz	2462 MF	I—	
Crew 24700 006 Crew 24700 006	Provide a constraint of the second of the se	0.00 0.00 <td< td=""><td>2020 Provide Version Advance - Name of Provide Version Advance - Nam</td><td>Center Free 500 0 % 26.00 % 60000 % 26.00 0 %</td></td<>	2020 Provide Version Advance - Name of Provide Version Advance - Nam	Center Free 500 0 % 26.00 % 60000 % 26.00 0 %	