



FCC Radio Test Report

FCC ID: 2AXJ4C420

This report concerns: Class II Permissive Change

Report No. : BTL-FCCP-1-2307G106

Equipment Smart Wire-Free Security Camera

Model Name Tapo C420 : tp-link, tapo **Brand Name**

TP-Link Corporation Limited Applicant

: Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Address

Sha Tsui, Kowloon, Hong Kong

Manufacturer : TP-Link Corporation Limited

Address : Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim

Sha Tsui, Kowloon, Hong Kong

Radio Function : WLAN 2.4 GHz

FCC Rule Part(s) Measurement

: FCC CFR Title 47, Part 15, Subpart C (15.247)

Procedure(s)

Date of Receipt : 2023/3/1

2023/7/18

: ANSI C63.10-2013

Date of Test : 2023/3/30 ~ 2023/4/10

2023/8/22

Issued Date : 2023/9/6

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

Prepared by

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Declaration

BTL 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).

BTL'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. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL'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.

BTL 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
BTL-FCCP-1-2302G024	R00	Original Report.	2023/4/28	Invalid
BTL-FCCP-1-2302G024	R01	Revised report to address TCB's comments.	2023/4/28	Invalid
BTL-FCCP-1-2302G024	R02	Revised report to address TCB's comments.	2023/5/23	Valid
BTL-FCCP-1-2307G106	R00	Changed battery.	2023/9/6	Valid

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1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	NOTE (1)	N/A	
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX A APPENDIX B	Pass	
15.247(a)	Bandwidth	APPENDIX C	Pass	
15.247(b)	Output Power	APPENDIX D	Pass	
15.247(e)	Power Spectral Density	APPENDIX E	Pass	
15.247(d)	Antenna conducted Spurious Emission	APPENDIX F	Pass	
15.203	Antenna Requirement		Pass	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) This a support report for FCC ID: 2AXJ4C420 enables WLAN channel 12 and 13. Only test results of WLAN channel 12 and 13 are recorded in this report.

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1.1 REFERENCE TEST GUIDANCE

KDB 662911 D01 Multiple Transmitter Output v02r01

1.2 TEST FACILITY

The test locations sta	ated be	low are un	der the TAF	Accreditat	ion Numbe	r 0659.	
The test location(s) u	used to	collect the	test data in	this report	are:		
No. 68-1, Ln. 169, S	ec. 2, D	atong Rd.,	Xizhi Dist.,	New Taipe	ei City 221,	Taiwan	
(FCC DN: TW0659)				•	•		
□ C05		CB08		CB11	\boxtimes	SR10	SR11
No. 72, Ln. 169, Sec	c. 2, Dat	ong Rd., X	izhi Dist., N	lew Taipei (City 221, Ta	aiwan	
(FCC DN: TW0659)				·			
□ C06	\boxtimes	CB21		CB22			

1.3 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 $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 $\mathbf{U}_{\text{cispr}}$ requirement.

A. Radiated emissions test:

Test Site	Measurement Frequency Range	U (dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CBZ1	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

B. Conducted test:

toot:					
Test Item	U (dB)				
Occupied Bandwidth	0.5334				
Output power	0.3669				
Power Spectral Density	0.6591				
Conducted Spurious emissions	0.5416				
Conducted Band edges	0.5348				

NOTE

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

1.4 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
Radiated emissions below 1 GHz	Refer to data	AC 120V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	AC 120V	Mark Wang
Bandwidth	22 °C, 49 %	AC 120V	Jay Tien
Output Power	21 °C, 61 %	AC 120V	Jay Tien
Power Spectral Density	21 °C, 61 %	AC 120V	Jay Tien
Antenna conducted Spurious Emission	22 °C, 49 %	AC 120V	Jay Tien

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1.5 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

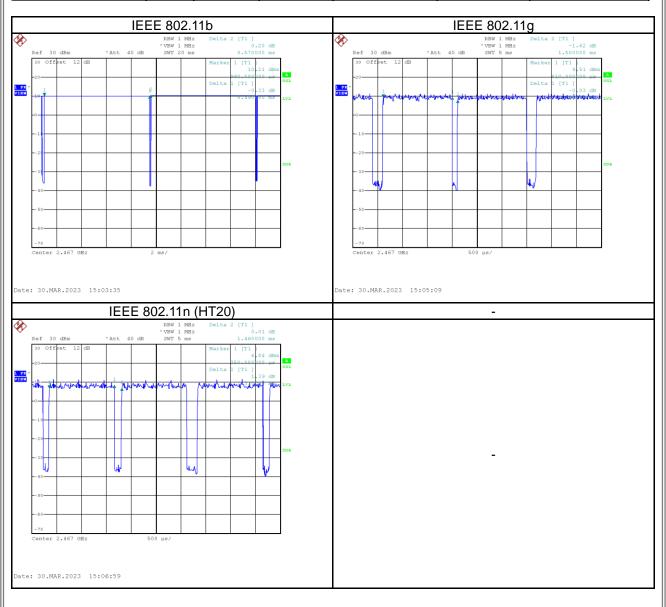
Test Software	M	T7682 QA 0.3.0.8	
Mode	2467 MHz	2472 MHz	Data Rate
IEEE 802.11b	1D	19	1 Mbps
IEEE 802.11g	18	18	6 Mbps
IEEE 802.11n (HT20)	1A	1A	HT 0



1.6 DUTY CYCLE

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

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
lviode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
IEEE 802.11b	8.490	1	8.490	8.570	99.07%	0.04
IEEE 802.11g	1.390	1	1.390	1.500	92.67%	0.33
IEEE 802.11n (HT20)	1.310	1	1.310	1.460	89.73%	0.47



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

- · ·			
Equipment	Smart Wire-Free Security Camera		
Model Name	Tapo C420		
Brand Name	tp-link, tapo		
Model Difference	N/A		
Power Source	#1 DC voltage supplied from AC Adapter.		
r ower Source	#2 Supplied from battery.		
Power Rating	#1 I/P: 100-240V~ 50/60Hz 0.2A Max. O/P: 5V===1A		
r ower realing	#2 DC3.6V, 6700mAh, 24.12Wh		
	1 * Adapter: A8-501000		
Products Covered	1 * Battery: Tapo A100		
l Toducis Covered	1 * USB Cable		
	1 * Bracket		
Operation Band	2400 MHz ~ 2483.5 MHz		
Operation Frequency	2412 MHz ~ 2472 MHz		
	IEEE 802.11b: DSSS		
Modulation Technology	IEEE 802.11g: OFDM		
	IEEE 802.11n: OFDM		
	IEEE 802.11b: 11/5.5/2/1 Mbps		
Transfer Rate	IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps		
	IEEE 802.11n: up to 72.2 Mbps		
Output Average Power Max.	IEEE 802.11b: 18.06 dBm (0.0640 W)		
(Channel 1~11)	IEEE 802.11g: 18.59 dBm (0.0723 W)		
NOTE (5)	IEEE 802.11n (HT20): 17.26 dBm (0.0532 W)		
Output Average Power Max.	IEEE 802.11b: 15.23 dBm (0.0333 W)		
(Channel 12~13)	IEEE 802.11g: 12.66 dBm (0.0185 W)		
(Charmer 12~13)	IEEE 802.11n (HT20): 12.44 dBm (0.0175 W)		
Test Model	Tapo C420		
Sample Status	Engineering Sample		
EUT Modification(s)	N/A		

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:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452		
05	2432	10	2457		

(3) Table for Filed Antenna:

Ant.	Brand	Model Name	Type	Connector	Gain (dBi)
2	TP-LINK®	Tapo C420(US)1.0	IFA	N/A	-0.21

- (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) The values are adopted from test report: BTL-FCCP-1-2204C109A.

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(6) This is a supplement report of BTL-FCCP-1-2302G024 report. The differences compared with original report is changed battery. After evaluated, the changes with respect to the original one, only radiated emissions below 1 GHz tests need to be verified.	

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2.2 TEST MODES

Test Items	Test Items Test mode		Note
Transmitter Radiated Emissions (below 1GHz)	TX Mode_IEEE 802.11b	12	-
To a constitue Destinate d'Esciente	TX Mode_IEEE 802.11b		
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11g		Bandedge
(45070 10112)	TX Mode_IEEE 802.11n (HT20)		
To a selffer De fiete d'Enterie	TX Mode_IEEE 802.11b		
Transmitter Radiated Emissions (above 1GHz)	TX Mode_IEEE 802.11g	12/13	Harmonic
(abovo Foriz)	TX Mode_IEEE 802.11n (HT20)		
Bandwidth &	TX Mode_IEEE 802.11b		
Output Power & Power Spectral Density &	TX Mode_IEEE 802.11g	12/13	-
Antenna conducted Spurious Emission	TX Mode_IEEE 802.11n (HT20)		

NOTE:

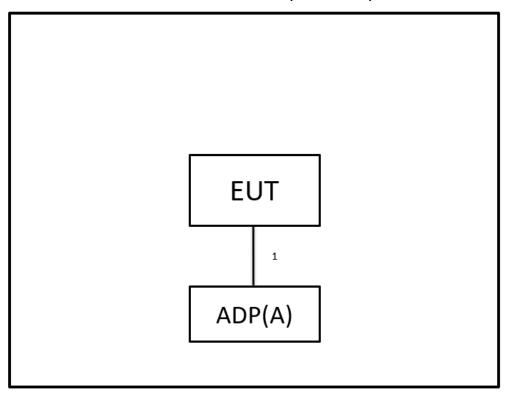
- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (Y axis) is recorded.



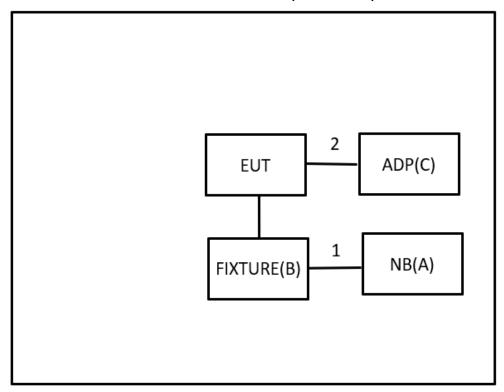
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

For Radiated Emissions (below 1GHz)



For Radiated Emissions (above 1GHz)





2.4 SUPPORT UNITS

For Radiated Emissions (below 1GHz)

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	ADP	LISTED	A8-501000	N/A	Supplied by test requester

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	1m	USB To Mico USB Cable	Supplied by test requester

For Radiated Emissions (above 1GHz)

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	NB	HP	TPN-C125	N/A	Furnished by test lab.
В	FIXTURE	N/A	N/A	N/A	Supplied by test requester
С	ADP	LISTED	A8-501000	N/A	Supplied by test requester

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	1m	USB extension Cable	Furnished by test lab.
2	No	No	0.5m	USB Cable	Supplied by test requester

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3 RADIATED EMISSIONS TEST

3.1 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		Emissions V/m)	Measurement Distance
(MHz)	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:

Reading Level		Correct Factor		Measurement Value
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

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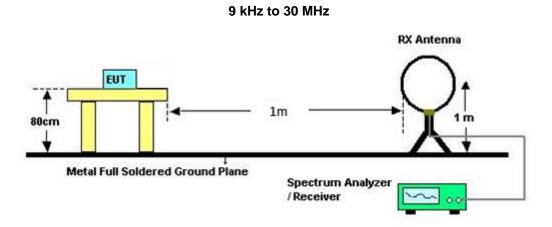
3.2 TEST PROCEDURE

- 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)
- h. 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.

3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4 TEST SETUP





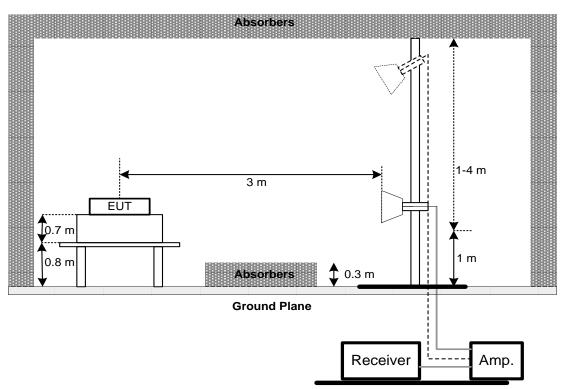
Absorbers

Absorbers

Ground Plane

Receiver Amp.

Above 1 GHz



3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



3.6 TEST RESULT - BELOW 30 MHZ

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

3.7 TEST RESULT - 30 MHZ TO 1 GHZ

Please refer to the APPENDIX A.

3.8 TEST RESULT - ABOVE 1 GHZ

Please refer to the APPENDIX B.

NOTE:

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

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4 BANDWIDTH TEST

4.1 LIMIT

Section	Test Item	Limit
15.247(a)	6 dB Bandwidth	500 kHz

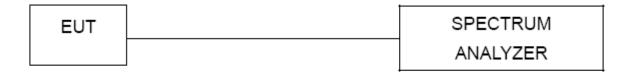
4.2 TEST PROCEDURE

- 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.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX C.

5 OUTPUT POWER TEST

5.1 LIMIT

Section	Test Item	Limit
15.247(b)	Maximum Output Power	1 Watt or 30dBm

5.2 TEST PROCEDURE

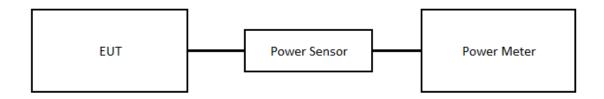
- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- Subclause 11.9.1.1 of ANSI C63.10 is applied. The maximum peak conducted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

5.3 DEVIATION FROM TEST STANDARD

shall use a fast-responding diode detector.

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX D.

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6 POWER SPECTRAL DENSITY

6.1 LIMIT

Section	Test Item	Limit
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

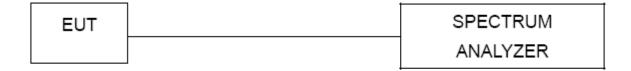
6.2 TEST PROCEDURE

- 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.

6.3 DEVIATION FROM TEST STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULT

Please refer to the APPENDIX E.

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7 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

7.1 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.

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 = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- c. Offset = antenna gain + cable loss.

7.3 DEVIATION FROM TEST STANDARD

No deviation.

7.4 TEST SETUP

EUT SPECTRUM ANALYZER

7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULT

Please refer to the APPENDIX F.

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8 LIST OF MEASURING EQUIPMENTS

		Radiat	ted Emissions (be	low 1GHz)		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2022/9/19	2023/9/18
2	Test Cable	EMCI	EMC104-SM-100 0	180809	2023/7/10	2024/7/9
3	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13
4	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13
5	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
6	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
7	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
8	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

		Radia	ted Emissions (ab	ove 1GHz)		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6
2	Pre-Amplifier	EMCI	EMC184045SE	980907	2022/9/28	2023/9/27
3	Test Cable	EMCI	EMC104-SM-SM- 1000	220319	2023/3/14	2024/3/13
4	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13
5	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13
6	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
7	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
8	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2022/5/18	2023/5/17
9	Test Cable	EMCI	EMC101G-KM-K M-3000	220329	2023/3/14	2024/3/13
10	Test Cable	EMCI	EMC102-KM-KM- 1000	220327	2023/3/14	2024/3/13
11	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Bandwidth			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2022/10/7	2023/10/6

			Output Power			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2022/6/1	2023/5/31
2	Power Sensor	Anritsu	MA2411B	1126001	2022/6/1	2023/5/31



		F	ower Spectral De	nsity		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2022/10/7	2023/10/6

		Antenna	conducted Spurio	ous Emission		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2022/10/7	2023/10/6

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

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9 EUT TEST PHOTO
Please refer to document Appendix No.: TP-2307G106-FCCP-1 (APPENDIX-TEST PHOTOS).
10 EUT PHOTOS
Please refer to document Appendix No.: EP-2307G106-1 (APPENDIX-EUT PHOTOS).

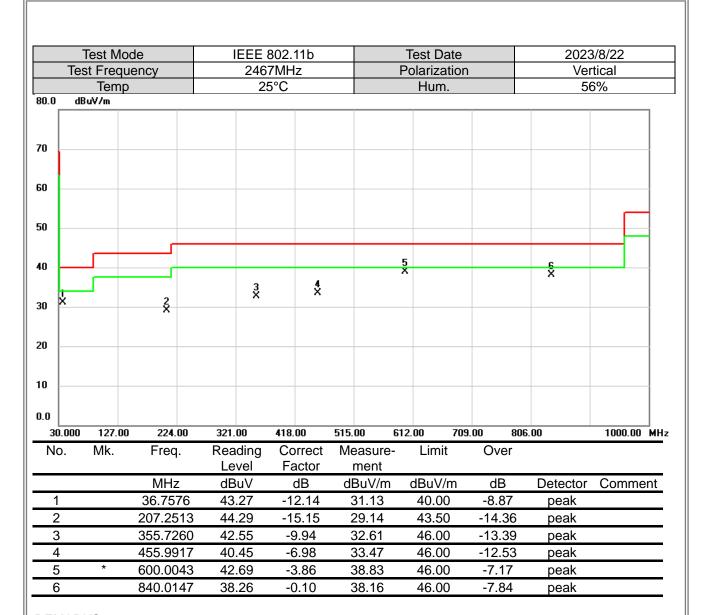
Project No.: 2307G106 Page 25 of 61 Report Version: R00



APPENDIX A RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

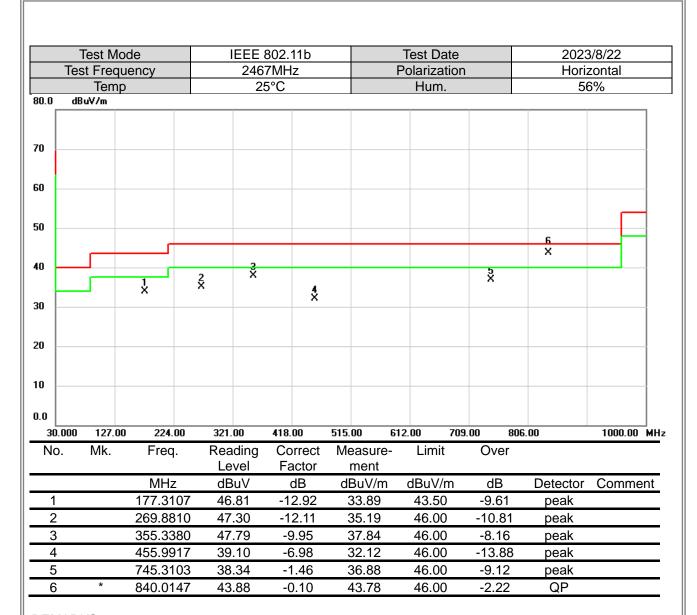
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- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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



APPENDIX B RADIATED EMISSIONS - ABOVE 1 GHZ

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	Test Mo		I		802.11b			Test Date			3/4/6	
Te	est Frequ				7MHz		P	olarizatio	n		zontal	
	Temp			22	2°C			Hum.		67	7%	
130.0 c	dBuV/m											7
120												-
110												-
100						*						-
90						+						
80							+					
70 🗀												
- 1							- 1					
60	_				-		√\5 8					
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50	2		-acm/Northernolph	nodydyddioly	benjerih				was a standard of the standard	angari-digaratinggan ashiral sa	garandhiliftenfelsenanna	4
50 //w/40	2		-acm/N/Azarrif-	haratakalara	beryknov				was and a second and	animan di pradimenta di Araba	garandhiji bayakası va a	3
50 //w/40 30	2 X					2467.00	*	May me day sapply ha				
50 //w/40 30	2		2 4 27 Rea	7.00 ding	2447.00 Correc		248 ure-	May me day sapply ha			2567.00	
50 //w/ 10 //w/ 80 //w/ 20 //w/ 20 //w/ 2367.0	2 X 000 2387.0	0 2407.00 Freq.	2427 Rea Le	7.00 ding vel	2447.00 Correct Factor	t Meas me	248 ure- nt	7.00 25 Limit	07.00 252 Over	27.00	2567.00	MH
60 //w/4 60 80 0.0 0.0 2367.0 No.	2 X 000 2387.0	0 2407.00 Freq.	2427 Rea Le	7.00 ading vel	2447.00 Correc Factor dB	t Meas me dBu\	248 ure- nt //m	7.00 25 Limit	07.00 252 Over dB	27.00 Detector]
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 X 000 2387.0	0 2407.00 Freq. MHz 2388.947	2427 Rea Le dB	7.00 ding vel suV	2447.00 Correc Factor dB -5.42	t Meas me dBu\ 50.0	248 ure- nt //m	7.00 25 Limit dBuV/m 74.00	07.00 252 Over dB -23.95	Detector peak	2567.00]
0 0 0 0 0.0 2367.0 No.	000 2387.0 Mk.	0 2407.00 Freq. MHz 2388.947 2388.947	2427 Rea Le dB 555	7.00 ding vel 3uV .47	2447.00 Correc Factor dB -5.42 -5.42	t Meas me dBu\ 50.0	248 ure- nt //m 05	7.00 25 Limit dBuV/m 74.00 54.00	07.00 252 Over dB -23.95 -15.65	Detector peak AVG	2567.00 Comme	MI
00 00 0.0 2367.0 No.	2 X 000 2387.0	0 2407.00 Freq. MHz 2388.947 2388.947 2467.000	2427 Rea Le dB 555 433	7.00 ding vel SuV .47 .77	2447.00 Correc Factor dB -5.42 -5.42 -5.32	t Meas me dBu\ 50.0 38.3	248 ure- nt //m 05 35	7.00 25 Limit dBuV/m 74.00 54.00 74.00	07.00 252 Over dB -23.95 -15.65 27.11	Detector peak AVG peak	2567.00 Comme	MI-
100 2367.0 No.	2 X 000 2387.0 Mk.	0 2407.00 Freq. MHz 2388.947 2388.947	2427 Rea Le dB 55 43 106	7.00 ding vel 3uV .47	2447.00 Correc Factor dB -5.42 -5.42	t Meas me dBu\ 50.0	248 ure- nt //m 05 35 .11	7.00 25 Limit dBuV/m 74.00 54.00	07.00 252 Over dB -23.95 -15.65	Detector peak AVG	2567.00 Comme	MI-

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



T	Test Mo est Frequ			802.11b '2MHz		Test Date Polarization			3/4/6 zontal	
16	Temp			21VIDZ 2°C	Г	Hum.	l		7%	
130.0 d	dBuV/m			<u> </u>		nuiii.		07	70	
										1
120										
110										1
100 -					**************************************					-
90					/ * \					
30					7					1
80					/ 					-
70					- 					-
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60 📖					5					
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E0	J			N	5 √ 8 , ×					
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50 www.	2	ilaghyddin yddin y ddin y	the design of the party	www.			endered and seed and all and	hyd acomption consideration of	Marinaghal	
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50 40 30 20 10.0	2 X				· ×	Contract Mayor de				
50 40 30 20 10.0	2 X .000 2392.0	0 2412.00	2432.00	2452.00	2472.00 24	92.00 25	12.00 253	h	2572.00	
50	2 X		2432.00 Reading	2452.00 Correct	2472.00 24 Measure-	Contract Mayor de				
50 40 30 20 10.0 2372.0	2 X .000 2392.0	0 2412.00 Freq.	2432.00 Reading Level	2452.00 Correct Factor	2472.00 24 Measure- ment	92.00 25 Limit	12.00 253 Over	32.00	2572.00	мн
30 20 10.0 2372.0 No.	2 X .000 2392.0	0 2412.00 Freq.	2432.00 Reading Level dBuV	2452.00 Correct Factor dB	2472.00 24 Measure- ment dBuV/m	92.00 25 Limit	12.00 253 Over dB	32.00 Detector		мн
30 20 10.0 2372.0 No.	2 X .000 2392.0	0 2412.00 Freq. MHz 2388.913	2432.00 Reading Level dBuV 54.89	2452.00 Correct Factor dB -5.42	2472.00 24 Measurement dBuV/m 49.47	92.00 25 Limit dBuV/m 74.00	12.00 253 Over dB -24.53	Detector peak	2572.00	мн
30 20 10.0 2372.t No.	2 X .000 2392.0 Mk.	0 2412.00 Freq. MHz 2388.913 2388.913	2432.00 Reading Level dBuV 54.89 43.30	2452.00 Correct Factor dB -5.42 -5.42	2472.00 24 Measurement dBuV/m 49.47 37.88	92.00 25 Limit dBuV/m 74.00 54.00	12.00 253 Over dB -24.53 -16.12	Detector peak AVG	2572.00 Comme	MH ent
30 20 10.0 2372.0 No.	2 X .000 2392.0	MHz 2388.913 2388.913 2472.000	2432.00 Reading Level dBuV 54.89 43.30 105.09	2452.00 Correct Factor dB -5.42 -5.42 -5.33	2472.00 24 Measurement dBuV/m 49.47 37.88 99.76	dBuV/m 74.00 54.00 74.00	0ver dB -24.53 -16.12 25.76	Detector peak AVG peak	2572.00 Comme	MH
30 20 10.0 2372.t No.	2 X 000 2392.0 Mk.	0 2412.00 Freq. MHz 2388.913 2388.913	2432.00 Reading Level dBuV 54.89 43.30	2452.00 Correct Factor dB -5.42 -5.42	2472.00 24 Measurement dBuV/m 49.47 37.88	92.00 25 Limit dBuV/m 74.00 54.00	12.00 253 Over dB -24.53 -16.12	Detector peak AVG	2572.00 Comme	MH

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



	T4 N/-	-1	IEEE	000 44 =		Tast Data	2023/4/6		
7	Test Mod Test Frequ			802.11g 7MHz	F	Test Date Polarization	,		3/4/6 zontal
	Temp			2°C		Hum.			7%
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120									
110									
100					3 X				
100					**************************************				
90					1				
80									
70				1					
′0				Mark .	M _{us}				
60				Jw/¹	113	NIS.			
-0				M.	- 1	V.			
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		anna kappi Prajaki karapa awa jakar	Hamperond Hample between pla	ľ"		Manharman	war general dan	lyknimiterekterekterje.	Marchalynagry
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50 40 40 30	2	argaelydd Cyfelliai ad ar gallar a	N _{am} anna Nama / Edistagrapha	ľ"		Manharman	war group of the same	hydraenidaeedaeedaegeen	ellersentelfungen
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50 40 30 20 10.0 2367	2 X 7.000 2387.00	0 2407.00 Freq.	2427.00 Reading Level	2447.00 Correct Factor	2467.00 24 Measure- ment	87.00 250 Limit	07.00 252 Over	7.00	2567.00 MH
50 40 30 20 10.0 2367 No.	2 X 7.000 2387.00	0 2407.00 Freq.	2427.00 Reading Level dBuV	2447.00 Correct Factor dB	2467.00 24 Measure- ment dBuV/m	87.00 250 Limit	07.00 252 Over dB	7.00 Detector	
50 40 30 20 10.0 2367 No.	2 X 7.000 2387.00	0 2407.00 Freq. MHz 2382.780	2427.00 Reading Level dBuV 56.26	2447.00 Correct Factor dB -5.42	2467.00 24 Measurement dBuV/m 50.84	87.00 250 Limit dBuV/m 74.00	07.00 252 Over dB -23.16	7.00 Detector peak	2567.00 MH
50 40 30 20 10.0 2367 No.	2 X 7.000 2387.00 Mk.	0 2407.00 Freq. MHz 2382.780 2382.780	2427.00 Reading Level dBuV 56.26 45.16	2447.00 Correct Factor dB -5.42 -5.42	2467.00 24 Measurement dBuV/m 50.84 39.74	87.00 250 Limit dBuV/m 74.00 54.00	07.00 252 Over dB -23.16 -14.26	7.00 Detector peak AVG	2567.00 MH
50 40 30 20 10.0 2367 No.	7.000 2387.00 Mk.	0 2407.00 Freq. MHz 2382.780 2382.780 2467.000	2427.00 Reading Level dBuV 56.26 45.16 106.80	2447.00 Correct Factor dB -5.42 -5.42 -5.32	2467.00 24 Measure- ment dBuV/m 50.84 39.74 101.48	87.00 250 Limit dBuV/m 74.00 54.00 74.00	07.00 252 Over dB -23.16 -14.26 27.48	Detector peak AVG peak	2567.00 MH Comment NoLimit
50 40 30 20 10.0 2367 No.	2 X 7.000 2387.00 Mk.	0 2407.00 Freq. MHz 2382.780 2382.780 2467.000 2467.000	2427.00 Reading Level dBuV 56.26 45.16 106.80 97.29	2447.00 Correct Factor dB -5.42 -5.42 -5.32 -5.32	2467.00 24 Measurement dBuV/m 50.84 39.74 101.48 91.97	87.00 250 Limit dBuV/m 74.00 54.00 74.00 54.00	Over dB -23.16 -14.26 27.48 37.97	7.00 Detector peak AVG peak AVG	2567.00 MH
50 40 30 20 10.0 2367 No.	7.000 2387.00 Mk.	0 2407.00 Freq. MHz 2382.780 2382.780 2467.000	2427.00 Reading Level dBuV 56.26 45.16 106.80	2447.00 Correct Factor dB -5.42 -5.42 -5.32	2467.00 24 Measure- ment dBuV/m 50.84 39.74 101.48	87.00 250 Limit dBuV/m 74.00 54.00 74.00	07.00 252 Over dB -23.16 -14.26 27.48	Detector peak AVG peak	2567.00 MH Comment NoLimit

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



	Test Mo	Test Mode				IEEE 802.11g					Test Date				
	Test Frequency					2MHz	3			olarizati				3/4/6 zontal	
	Temp				22	22°C			Hum.			67%		7%	
130.0	dBuV/m														
120															-
110															_
								3							
100							M	A My							\dashv
90								*							
80							+								1
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50 40 30 20 10.0	2 X 72.000 2392.		2.00	2432.0 Read	00 ling	2452.0 Corr	0 2 ect	Measur	249		2512.00				
50 40 30 20 10.0 2373	2 X 72.000 2392.	00 2412 Freq	2.00	2432.0 Read Lev	oo ling el	2452.0 Corr Fac	no 2 rect tor	Measur ment	249 e-	2.00 ; Limit	2512.00 O	253 ver	2.00	2572.00	MH2
50 40 30 20 10.0 2377 No.	2 X 72.000 2392.	00 2412 Freq MHz	2.00	2432.1 Read Lev	oo ling el	2452.0 Corr Fac	o 2 ect tor	Measur ment dBuV/ı	249 e-	2.00 2 Limit	2512.00 O	253 ver	2.00 Detector		MH:
50 40 30 20 10.0 237 No.	2 X 72.000 2392.	00 2412 Freq MHz 2380.8	2.00	2432.0 Read Lev dBu 57.4	oo ling el ıV	2452.0 Corr Fac dE -5.4	ect tor 3	Measur ment dBuV/r 51.99	249 e-	2.00 2 Limit dBuV/m 74.00	2512.00 O	253 ver IB 2.01	2.00 Detector peak	2572.00	MH2
50 40 30 20 10.0 237 No.	2 X 2.000 2392. . Mk.	00 2412 Freq MHz 2380.8 2380.8	2.00	2432.0 Read Lev dBu 57.4 44.7	00 ling el iV 11	2452.0 Corr Fac dE -5.4	00 2 ect tor 3 42	Measur ment dBuV/r 51.99 39.34	249 ee-	2.00 2 Limit dBuV/m 74.00 54.00	2512.00 Or 1 d -22 -14	253 ver IB 2.01	2.00 Detector peak AVG	2572.00 Comme	MH:
50 40 30 20 10.0 2377 No.	2 X 72.000 2392.	00 2412 Freq MHz 2380.8 2380.8 2472.0	2.00	2432.1 Read Lev dBu 57.4 44.7 106.	00 ling el IV 41 76	2452.0 Corr Fac dE -5.4 -5.5	ect tor 3 42 42	Measur ment dBuV/r 51.99 39.34 101.4	249 e-	2.00 2 Limit dBuV/m 74.00 54.00 74.00	2512.00 Or 1 d -22 -14 27	253 ver IB 2.01 4.66	Detector peak AVG peak	2572.00 Commo	MH:
50 40 30 20 10.0 2377 No.	2 X 72.000 2392.1 . Mk.	00 2412 Freq MHz 2380.8 2380.8	2.00	2432.0 Read Lev dBu 57.4 44.7	00 ling el 1V 41 76 80	2452.0 Corr Fac dE -5.4	ect tor 3 42 42 33 33	Measur ment dBuV/r 51.99 39.34	249 e-	2.00 2 Limit dBuV/m 74.00 54.00	2512.00 Or 1 d -22 -14 27 38	253 ver IB 2.01	2.00 Detector peak AVG	2572.00 Comme	MH2

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



Test Mode			IEEE 802.11n (HT20)				Test Date				2023/4/6		
Test Frequency					7MHz		Polarization			Horizontal			
	Temp			22°C			Hum.				67%		
130.0	dBuV/m			1									_
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20													1
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50 <mark>W/V-4</mark>	2	man market	and week the state of the state	~qpt_v/qpm	And the state of t	AV .	٦	, N.	Market Market States	nestralife specifical designations	halp made op se prosper he as	Mosmaghorsodhjaanhpu	M.
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50 40 40 30	2		2427					6 X 2487.0					
50 4/m 40 20 2367.	.000 2387.0	0 2407.00	2 4 27 Rea	7.00	2447.00	ct Me	7.00	6 X 2487.0	0 25	07.00 2			
60 4/m 60 60 20 60 2367.	.000 2387.0	0 2407.00	2427 Rea Le	7.00 ding	2447.00 Corre	ect Me or	7.00 easure-	2487.0 - L	0 25	07.00 2			MI
60 4/m 60 60 0.0 2367.	.000 2387.0	0 2407.00 Freq.	2427 Rea Le	7.00 ding vel	2447.00 Corre Facto	ect Me or d	7.00 easure- ment	2487.0 - L	0 25 ₋imit	07.00 2 Over	527.00	2567.00	MI
0.0 0.0 2367.	.000 2387.0	0 2407.00 Freq.	2427 Rea Le dB 555	7.00 ding vel	2447.00 Corre Facto	ect Mo or d	7.00 easure- ment BuV/m	2487.0 - L	0 25 Limit BuV/m	07.00 2 Over	527.00 Detector	2567.00	MI
0 0 0 0 0.0 2367.	.000 2387.0	0 2407.00 Freq. MHz 2387.767	2427 Rea Le dB 555	7.00 Iding vel SuV	2447.00 Corre Facto dB -5.42	ect Me or d 2	7.00 easure- ment BuV/m 50.46	2487.0 - L dE 7	0 25 imit 8uV/m 4.00	07.00 2 Over dB -23.54 -14.52 26.78	527.00 Detector peak	2567.00	MI
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.000 2387.00 Mk.	0 2407.00 Freq. MHz 2387.767 2387.767	2427 Rea Le dB 55, 44,	7.00 ding vel suV .88	2447.00 Corre Facto dB -5.42 -5.42	ect Moor or 2 2 2 2	7.00 easure- ment BuV/m 50.46 39.48	2487.0 - L dE 7	0 25 Limit 3uV/m 4.00 4.00	07.00 2 Over dB -23.54 -14.52	Detector peak AVG	2567.00 Comme	MI
10.0 2367. No.	.000 2387.00 Mk.	0 2407.00 Freq. MHz 2387.767 2387.767 2467.000	2427 Rea Le dB 555 44, 106	7.00 ding vel 8uV .88 .90	2447.00 Corre Facto dB -5.42 -5.42 -5.33	ect Moor di 2 : 2 : 2 : 12 : 12 : 12 : 12 : 12 : 1	7.00 easure- ment BuV/m 50.46 39.48 00.78	2487.0 - L dE 7 5	0 25 Limit BuV/m 4.00 4.00 4.00	07.00 2 Over dB -23.54 -14.52 26.78	Detector peak AVG peak	2567.00 Comme	MI-

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



	Test Mo	ode		2.11n (HT20		Test Date			3/4/6
	Test Frequ			'2MHz		Polarization			zontal
	Temp)	2	2°C		Hum.	67%		
130.0	0 dBuV/m								
120									
20									
10									
00					3				
					The same of the sa				
90					*				
80									
70				ربار	5 M _M				
60				l. (¶''	™W.	l i			
DU				DM .		t.K.			i
	1		. 1	. JANA MA	6 X				
		nananan hali ingapakenaken	waaqoodaabaa wijaada	anger addition	6 ×		www.du.ne	L. h. W. J. J. L.	waterstand the same
50	**************************************	nan van de de Verdendervaker	wagoneedon wheel do	and the state of t	6 X		entulentum, de la	L. Milly Colonia, M. M. Maria	www.haven./son.v/frgust
50 40	2	ran van die de Verrage de voorte pe	wagishi wasan wasan ka	north of the second of the sec	6 ×		tomore de la company de la	L. holding to be accounted to the con-	Wer-Parker*/ አስተላላለት/የባቂ
50 4 0 30	2	and a second of the special construction	wango patastan salipant da	and the second of the second o	6 X		erwhadlen von arkylog	LAVALIP-NOOSEAN, MARCH	wether strongly will
50 40 30 20	2	enandan-kadi keragai kecaban	wangsalada alprib da	and the second of the second o	6 X		er which the way and held	k.dv44gt-vpromont,m.dvaa	pro-tophen/providenst
50 40 30 20	2 X				×	Michael			pro-tophitaly brown of the grant
50 40 30 20 10.0 23	2 X 372.000 2392.0	00 2412.00	2432.00	2452.00	2472.00 24	ML/MANAWA	2.00 253	L. M. H. L.	2572.00 MI
50 40 30 20	2 X 372.000 2392.0		2432.00 Reading	2452.00 Correct	2472.00 24 Measure-	Michael			
50 40 30 20 10.0 23	2 X 372.000 2392.0	00 2412.00 Freq.	2432.00 Reading Level	2452.00 Correct Factor	2472.00 24 Measurement	192.00 251 Limit	2.00 253 Over	2.00	2572.00 MI
50 40 80 20 10.0 23	2 X 372.000 2392.0 O. Mk.	00 2412.00 Freq.	2432.00 Reading Level dBuV	2452.00 Correct Factor dB	2472.00 24 Measurement dBuV/m	192.00 251 Limit	2.00 253 Over dB	2.00 Detector	
50 40 80 20 10.0 23	2 X 372.000 2392.0 O. Mk.	00 2412.00 Freq. MHz 2384.240	2432.00 Reading Level dBuV 55.56	2452.00 Correct Factor dB -5.43	2472.00 24 Measure- ment dBuV/m 50.13	192.00 251 Limit dBuV/m 74.00	2.00 253 Over dB -23.87	Detector peak	2572.00 MI
50 10 80 20 0.0 23 No	2 X 372.000 2392.0 O. Mk.	00 2412.00 Freq. MHz 2384.240 2384.240	2432.00 Reading Level dBuV 55.56 44.10	2452.00 Correct Factor dB -5.43 -5.43	2472.00 24 Measure- ment dBuV/m 50.13 38.67	192.00 251 Limit dBuV/m 74.00 54.00	2.00 253 Over dB -23.87 -15.33	Detector peak AVG	2572.00 MH
50 10 80 20 0.0 23 No	2 X 372.000 2392.0 O. Mk.	00 2412.00 Freq. MHz 2384.240 2384.240 2472.000	2432.00 Reading Level dBuV 55.56 44.10 105.23	2452.00 Correct Factor dB -5.43 -5.43 -5.33	2472.00 24 Measure- ment dBuV/m 50.13 38.67 99.90	192.00 251 Limit dBuV/m 74.00 54.00 74.00	2.00 253 Over dB -23.87 -15.33 25.90	Detector peak AVG peak	2572.00 MH
10.00 23 10.00 23	2 X 372.000 2392.0 O. Mk.	00 2412.00 Freq. MHz 2384.240 2384.240	2432.00 Reading Level dBuV 55.56 44.10	2452.00 Correct Factor dB -5.43 -5.43	2472.00 24 Measure- ment dBuV/m 50.13 38.67	192.00 251 Limit dBuV/m 74.00 54.00	2.00 253 Over dB -23.87 -15.33	Detector peak AVG	2572.00 MH

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



	Test Mo				802.11b		Test				3/3/31
Te	Test Frequency				7MHz		Polari				tical
					2°C	Hu	m.		67%		
130.0	0.0 dBuV/m										
120											
110											
100											
90											
80											
70											
60											
50		1									
40		½ ×									
30											
20											
10.0											
1000.	000 3550.0	00 6100.0	0 865	0.00	11200.00	13750.00	16300.00		0 214	00.00	26500.00 MHz
No.	Mk.	Freq.		ading evel	Correct Factor	Measur ment	e- Lir	nit (Over		
		MHz	dE	₿uV	dB	dBuV/r	n dBu	V/m	dB	Detector	Comment
1		4934.00	0 44	.24	1.20	45.44	74.	00 -2	28.56	peak	
2	*	4934.00	0 39	.05	1.20	40.25	54.	00 -1	13.75	AVG	

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



	Test M					302.11b				Test Da				3/3/31
16	est Fred Tem					7MHz 2°C			Ρ(olarizat Hum.				zontal 7%
130.0	dBuV/m	ıp				2 0				ПuIII.			0.	7 70
120														
110														
100														
90														
80														
70														
60														
50		1 X												
40		X 2												
40		×												
30														
20														
10.0														
1000.0	000 3550	.00 6100).00	8650.0	0	11200.00	1375	0.00	163	00.00	18850	0.00 21	400.00	26500.00 MH
No.	Mk.	Freq		Readi Leve		Correct Factor		asure ment	-	Limit		Over		
		MHz	7	dBu'		dB		3uV/m		dBuV/r	m	dB	Detector	Comment
1		4934.0	000	45.8	5	1.20		7.05		74.00)	-26.95	peak	
2	*	4934.0	000	37.0	8	1.20	3	88.28		54.00)	-15.72	AVG	

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



	Te	est Mo	ode		I	EEE	802.11	b				Test Da	ate			2023	3/3/31	
	Test		uency				2MHz				Р	olariza	tion				rtical	
		Temp)			2	2°C					Hum.				67	7%	
30.0	dBu\	V/m												1				_
20																		_
10																		-
00																		-
0																		4
io																		\parallel
0																		1
0																		+
0			ţ															
0			1 X 2 X															+
0																		+
0																		+
0.0																		
			11200.		1375			00.00			21400.00		26500.0	10 MI				
No.		Mk.	Fred	∤. 	Rea Le		Corre Fact			easure ment) -	Limit		Ove	Г 			
			MH	Z	dB	uV	dB		dE	3uV/m	1	dBuV/ı	m	dB	Det	ector	Comm	ent
1			4944.0		44.	82	1.2		4	6.04		74.00)	-27.9		eak		
2		*	4944.0	000	36.	49	1.2	2	3	37.71		54.00)	-16.2	9 A	VG		

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



		st Mo				EEE :						Test D					3/3/31
			uency				2MH	<u>z </u>			- 1	<u>Polariza</u>					zontal
130.0	dBu∖	Temp)			22	2°C					Hum	۱.			6	7%
130.0	ubuv	77111															
120 _																	
10																	
100																	
90																	
30																	
'o																	
io <u> </u>																	
50			1 X														
10			2 X														
80																	
20																	
0.0																	
		3550.0			8650		1120			50.00		300.00		50.00		00.00	26500.00 N
No.	[Mk.	Freq	• 	Rea Le	ding vel		rrect ctor		easur ment		Limi	it	Ove	er		
			MHz	_	dB	uV	C	ΙB	dl	3uV/r	n	dBuV	/m	dB		Detector	Commen
1			4944.0	000	45.	13	1.	.22	4	16.35		74.0	0	-27.6	35	peak	
2		*	4944.0	000	33.	30	1.	.22	3	34.52		54.0	0	-19.4	48	AVG	

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



Te	Test Nest Fre				I	EEE 246	802.1 7MH					Test D					3/3/31 rtical	
	Ten		ПСУ				2°C				'	Hun					7%	
130.0 d	BuV/m																	7
120																		
110																		-
100																		-
90																		_
80																		
70																		-
60																		-
50			1 X															
40			2 X															
30			^															-
20																		-
10.0	000 355	0.00	6100	1 00	8650	1.00	1120	0.00	1276	i0.00	10	300.00	100	50.00	214	00.00	26500.0	
No.	Mk.	0.00	Freq		Rea	ding vel	Со	rrect	Мє	easur ment	e-	Lim		Ov		00.00	26300.0	U MIT 2
			MHz	<u>'</u>		uV		dB		3uV/r		dBuV	'/m	dE	3	Detector	Comme	ent
1			4934.0			.56		.20		16.76		74.0		-27.	24	peak		
2	*		4934.0	000	33	26	1	.20	3	34.46	i	54.0	0	-19.	54	AVG		

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



	Test Mo				EEE						est Da					3/3/31	
Te	est Freq					7MHz	<u> </u>			Po	<u>olariza</u>					zontal	
130.0	Temj dBuV/m	р			2	2°C					Hum	•			6	7%	
130.0	ubu*/III																٦
120																	
10																	
00																	1
10																	-
30																	
'O																	1
io <u> </u>																	-
50		1 X															7
10																	
		2 X															
30																	1
20 —																	-
10.0																	
	000 3550.			8650		1120			50.00		00.00		50.00		00.00	26500.00	OMH
No.	Mk.	Fred	.	Rea Le	ding vel		rrect ctor		easure ment	:-	Limit	•	Ove	er			
		MHz	7	dB			IB		3uV/m	1	dBuV/	m	dB	,	Detector	Comme	ent
1		4934.0	000	44.	.85	1.	20	4	46.05		74.00)	-27.9	95	peak		
2	*	4934.0	000	33.	.20	1.	20	3	34.40		54.00)	-19.6	60	AVG		

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



	Test M					302.11g				est Da				3/3/31
16	est Freq Tem					2MHz 2°C			P	olarizat Hum.	ion			tical 7%
130.0	dBuV/m	ρ				2 0				Hulli.			0.	1 70
120														
110														
110														
100														
90														
80														
70														
60														
50		1												
40		X X												
40		2 X												
30 —														
20														
10.0														
1000.0	000 3550.	.00 6100).00	8650.0	0	11200.00	1375	0.00	1630	00.00	18850.0	00 21	400.00	26500.00 MH
No.	Mk.	Freq	•	Readi Leve		Correct Factor		easure ment	-	Limit	(Over		
		MHz	<u>,</u>	dBu\		dB		BuV/m	(dBuV/r	n	dB	Detector	Comment
1		4944.0		45.0		1.22		6.23		74.00		27.77	peak	
2	*	4944.0	000	33.1	9	1.22	3	34.41		54.00	-	19.59	AVG	

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



	Test M					302.11g				Test Da				3/3/31	
I €	est Fred					2MHz 2°C			P	olarizat	ion			zontal 7%	
130.0	Tem dBuV/m	ıρ				2 0				Hum.			0	70	
120															
110															
110															
100															
90															
80															
00															
70															
60															
50		<u>-</u>													
		X X													
40		2 X													
30															
20															
10.0															
	000 3550	.00 6100).00	8650.0	10	11200.00	1375	50.00	163	00.00	18850.00	214	400.00	26500.00 N	ИHz
No.	Mk.	Freq		Readi Leve		Correct Factor		easure ment	-	Limit	0	ver			_
		MHz	7	dBu		dB		BuV/m		dBuV/n	n (dB	Detector	Commen	ıt
1		4944.0		44.0		1.22		15.30		74.00		8.70	peak		_
2	*	4944.0	000	33.0	8	1.22	3	34.30		54.00	-1	9.70	AVG		_

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



		st Mo					11n (H	Γ20)			Test Da				3/3/31
			uency				7MHz				Polariza				rtical
30.0	dBu∖	Temp)			22	2°C				Hum	<u> </u>		6	7%
- T	abai	77111													
120 _															
10															
00															
90 -															
30															
'o															
o _															
io <u> </u>			1 X												
10															
:0			2 X												
20 10.0															
	0.000	3550.0	00 6100.	00	8650.0	00	11200.0	0 1	3750.00	16	300.00	18850	.00 2	21400.00	26500.00 MH
No.		Mk.	Freq.		Read Lev		Corre	ct	Measu	re-	Limit		Over		
			MHz		dBu		dB	, i	dBuV/		dBuV/	m	dB	Detector	Comment
1			4934.00	00	44.8		1.20)	46.01		74.00		-27.99		
2		*	4934.00	00	33.2	21	1.20		34.41		54.00)	-19.59) AVG	

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



	Test Mo			2.11n (HT20	0)	Test Date			3/3/31
	Test Frequence			37MHz		Polarization	1		zontal
100.0	Temp)	2	2°C		Hum.		67	7%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70 🗀									
60 <u> </u>									
50		1 ×							
40									
30		2 X							
20 _									
10.0									
	0.000 3550.0			11200.00				00.00	26500.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4934.000		1.20	46.34	74.00	-27.66	peak	-
2	*	4934.000		1.20	34.30	54.00	-19.70	AVG	

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



Ta	Test Nest Fre				IEEE	802 247	.11n 2MH		O)			Test D					3/3/31 rtical	
	Ten		ПСУ				2°C					Hun					7%	
130.0 c	BuV/m																	7
120																		_
110																		4
100																		4
90																		
80																		
70																		-
60																		_
50			1 X															
40			2 X															
30			^															-
20																		-
10.0	000 3550	0.00	6100	1.00	8650	1 00	1120	0.00	107	50.00	10	300.00	100	50.00	214	00.00	26500.0	
No.	Mk.	v. UU	Freq		Rea	ding vel	Со	rrect	Me	easur ment	e-	Lim		Ove		UU.UU	26300.0	UMITIZ
			MHz	<u> </u>		uV		dB		BuV/r		dBuV	/m	dE	3	Detector	Comme	ent
1			4944.0			.89		.22		46.11		74.0		-27.		peak		
2	*		4944.0	00	33	.26	1	.22	3	34.48		54.0	0	-19.	52	AVG		

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



7	Test M Test Fred				IEEE	802	.11n (2MH;		0)		-	Test D Polariza					3/3/31 zontal	
	Tem		Ю				2°C				<u>'</u>	Hun		ı			7%	
130.0	dBuV/m																	\neg
120																		
110																		_
100																		
90																		
80																		_
70																		\exists
60																		
50			1 X															-
40 <u> </u>			2 X															-
30																		-
20 10.0																		
	.000 3550	0.00	6100.	.00	8650	.00	1120	0.00	1375	50.00	16	300.00	188	50.00	214	00.00	26500.0)0 MH;
No.	Mk.		Freq.		Read Lev			rrect ctor		easur ment		Lim	it	Ove	er			
			MHz		dB			ΙB		3uV/r		dBuV	/m	dE	3	Detector	Comm	ent
1			1944.0		44.			22		15.71		74.0		-28.	29	peak		
2	*	4	1944.0	00	33.	30	1.	22	3	34.52		54.0	0	-19.	48	AVG		

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



APPENDIX C	BANDWIDTH

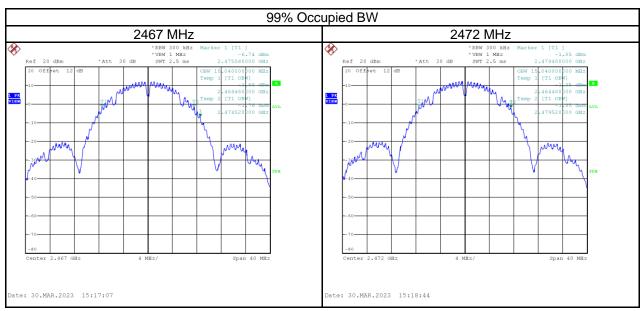
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Test Mode IEEE 802.11b

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2467	10.11	15.04	≥ 500	Pass
2472	10.07	15.04	≥ 500	Pass



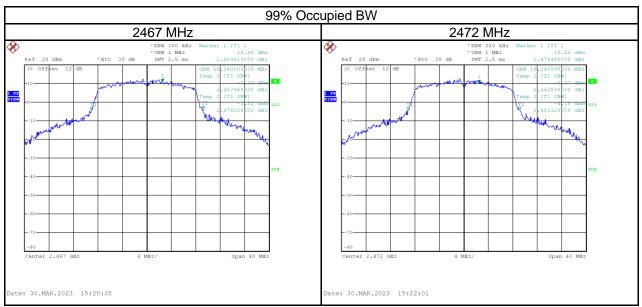




Test Mode	IEEE 802.11g
100t Wood	1002.119

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2467	15.06	18.24	≥ 500	Pass
2472	15.13	18.24	≥ 500	Pass



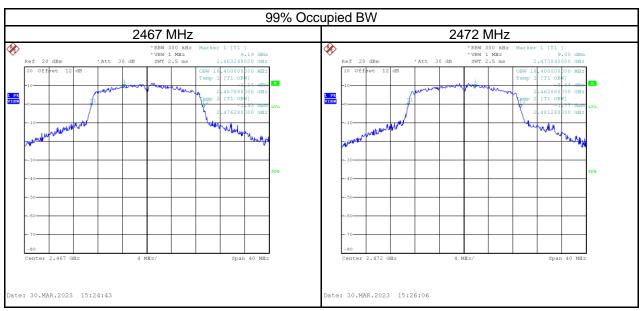




Test Mode	IEEE 802.11n	(HT20)
TEST INDUE		(11120)

Test Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	Minimum 6 dB Bandwidth Limit (kHz)	Result
2467	15.16	18.40	≥ 500	Pass
2472	15.04	18.40	≥ 500	Pass









APPENDIX D OUTPUT POWER

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Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Conducted Average Power (W)	Limit (dBm)	Limit (W)	Result
2467	17.15	15.23	0.0333	30.00	1.0000	Complies
2472	15.30	13.39	0.0218	30.00	1.0000	Complies

Test Mode	IEEE 802.11g	Tested Date	2023/4/10
	oog	. colou Dalo	

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Conducted Average Power (W)	Limit (dBm)	Limit (W)	Result
2467	21.32	12.59	0.0182	30.00	1.0000	Complies
2472	21.58	12.66	0.0185	30.00	1.0000	Complies

Test Mode IEEE 802.11n (HT20) Tested Date 2023/4	/10
--	-----

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Conducted Average Power (W)	Limit (dBm)	Limit (W)	Result
2467	21.51	12.40	0.0174	30.00	1.0000	Complies
2472	21.05	12.44	0.0175	30.00	1.0000	Complies



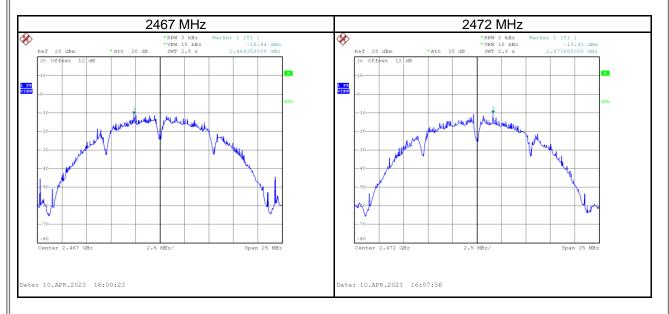
APPENDIX E POWER SPECTRAL DENSITY

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Test Mode IEEE 802.11b

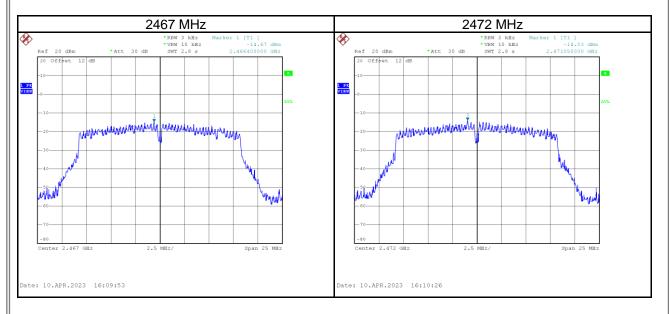
Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2467	-10.94	8.00	Pass
2472	-10.40	8.00	Pass





Test Mode IEEE 802.11g

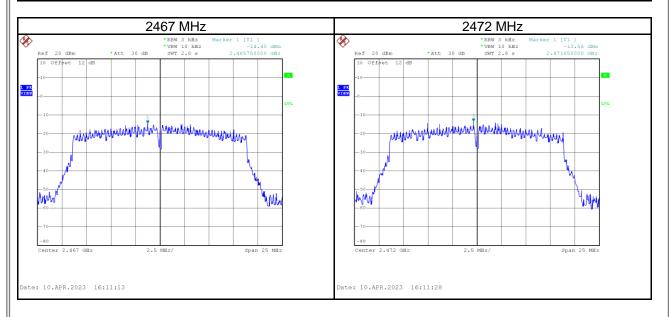
Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2467	-14.67	8.00	Pass
2472	-14.03	8.00	Pass





Test Mode IEEE 802.11n (HT20)

Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2467	-14.40	8.00	Pass
2472	-13.56	8.00	Pass

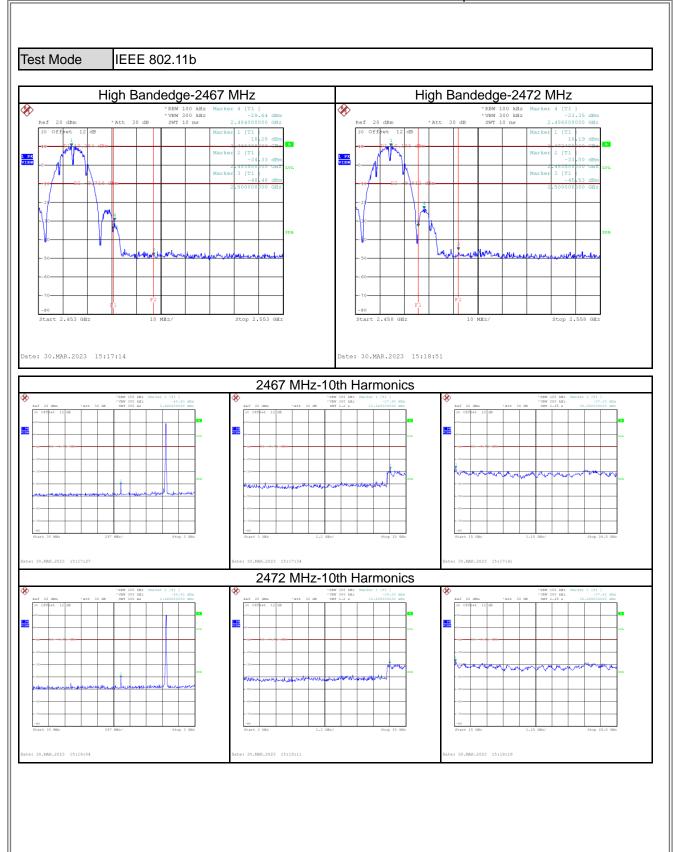




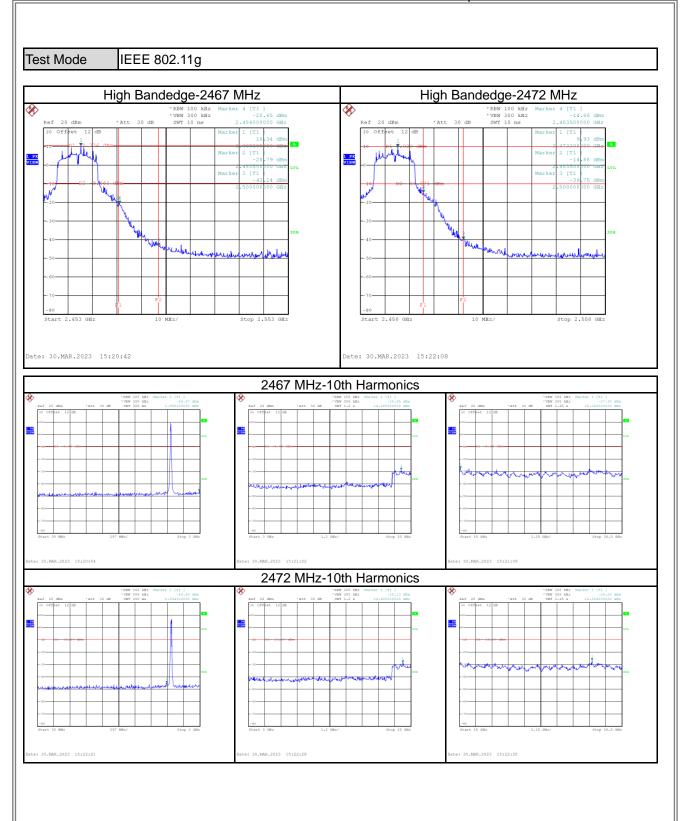
APPENDIX F	ANTENNA CONDUCTED SPURIOUS EMISSIONS

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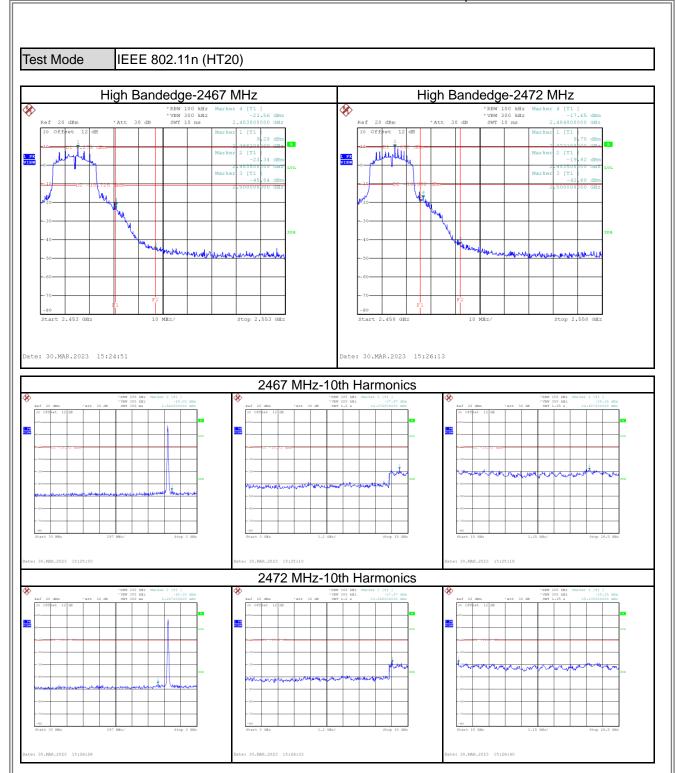












End of Test Report