

RF Test Report

For

Applicant Name:

DOKE COMMUNICATION (HK) LIMITED

Address:

Address:

EUT Name: Brand Name: Model Number: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA Wireless Earphone Blackview AirBuds 10 Pro

Issued By

Company Name:

BTF Testing Lab (Shenzhen) Co., Ltd. F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: Test Standards: FCC ID: Test Conclusion: Test Date: Date of Issue:

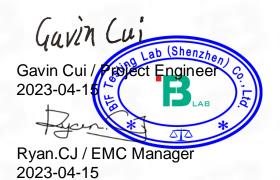
BTF230328R00204 47 CFR Part 15.247 2A7DX-AIRBUDS10PRO Pass 2023-03-29 to 2023-04-14 2023-04-15

Prepared By:

Date:

Approved By:

Date:



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Revision History				
Version	Issue Date	Revisions Content		
R_V0	2023-04-15	Original		

Note: Once the revision has been made, then previous versions reports are invalid.

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APPE			· · · · ·	



1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou		
Address.	Community, Songgang Street, Bao'an District, Shenzhen, China		
Phone Number:	+86-0755-23146130		
Fax Number:	+86-0755-23146130		
FCC Registration Number:	518915		
Designation Number:	CN1330		

1.3 Announcement

(1) The test report reference to the report template version v0.

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

(3) The test report is invalid if there is any evidence and/or falsification.

(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2 **Product Information**

2.1 Application Information

Company Name:	DOKE COMMUNICATION (HK) LIMITED		
Address:	RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA		
2.2 Manufacturer Information			

2.2 Manufacturer Information

Company Name:	Shenzhen DOKE Electronic Co.,Ltd
Address:	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China

2.3 General Description of Equipment under Test (EUT)

EUT Name:	Wireless Earphone
Test Model Number:	AirBuds 10 Pro

2.4 Technical Information

Power Supply:	DC 3.7V
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type:	FPC antenna
Antenna Gain:	-0.26dBi



3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards: 47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

3.2 Uncertainty of Test

Item	Measurement Uncertainty			
Conducted Emission (150 kHz-30 MHz)	±2.64dB			
The following measurement uncertainty levels have been estimated for tests performed on the EUT as				

specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.3 Summary of Test Result

Item	Standard	Requirement	Result	
Antenna requirement	47 CFR Part 15.247	Part 15.203	Pass	
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass	
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.215(c)	Pass	
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass	
Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass	
Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass	
Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass	
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass	
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass	
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass	
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass	



Test Configuration 4

Test Equipment List 4.1

Conducted Emission at AC power line						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23	
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23	
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23	
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22	
EMI Receiver	ROHDE&SCHWA RZ	ESCI3	101422	2022-11-24	2023-11-23	

Occupied Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Maximum Conducted Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	/	V1.00	/	/	/	
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23	
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23	
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23	
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23	
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23	
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23	

Channel Separation					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/

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RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Number of Hopping Frequencies						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
RFTest software	/	V1.00	/	/	/	
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23	
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23	
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23	
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23	
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23	
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23	

Dwell Time					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Emissions in non-restricted frequency bands

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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMNUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Band edge emissions	(Radiated)				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	1
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricted frequency bands (below 1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23	
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23	

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RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	1
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	/	1
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Emissions in restricte	d frequency band	s (above 1GHz)			
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 0m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1 m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	1	1	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWA RZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWA RZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ_EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	1	1

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Log periodic antenna SCHWARZBECK	/ULB 9168 01328	2021-11-28 2023-11-2	27
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4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	TX-GFSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	TX-Pi/4DQPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation.
ТМЗ	TX-8DPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.



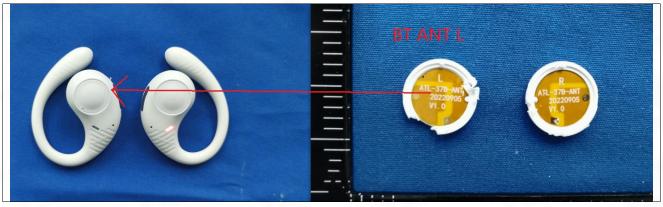
5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:



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6 Radio Spectrum Matter Test Results (RF)

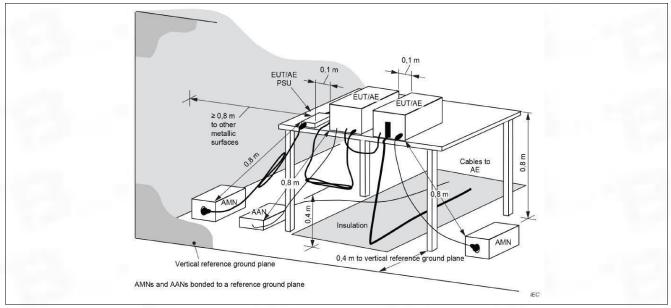
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).						
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices						
	Frequency of emission (MHz)	Conducted limit (dBµV)					
		Quasi-peak	Average				
Test Limit:	0.15-0.5	66 to 56*	56 to 46*				
Test Linnt.	0.5-5	56	46				
	5-30 60 50						
	*Decreases with the logarithm of the frequency.						

6.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.2 °C		
Humidity:	51 %		
Atmospheric Pressure:	1010 mbar		

6.1.2 Test Setup Diagram:



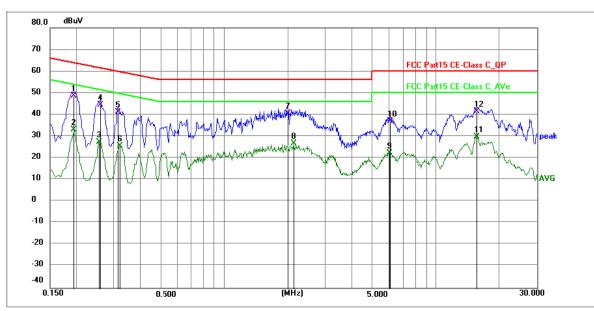
6.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 1 / CH: M

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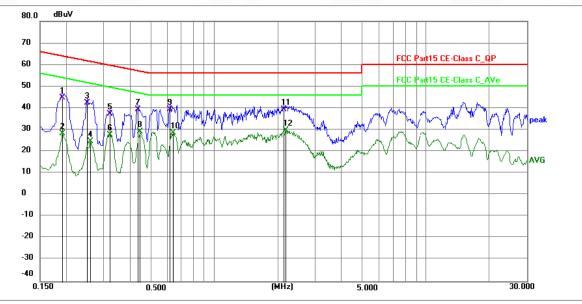


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1949	37.89	10.62	48.51	63.83	-15.32	QP	Р	
2	0.1949	22.48	10.62	33.10	53.83	-20.73	AVG	Р	
3	0.2535	16.85	10.63	27.48	51.64	-24.16	AVG	Р	
4	0.2580	33.90	10.63	44.53	61.50	-16.97	QP	Р	
5	0.3120	30.53	10.62	41.15	59.92	-18.77	QP	Р	
6	0.3209	14.83	10.62	25.45	49.68	-24.23	AVG	Р	
7	2.0085	30.01	10.65	40.66	56.00	-15.34	QP	Р	
8	2.1255	16.82	10.06	26.88	46.00	-19.12	AVG	Р	
9	6.0540	11.68	10.72	22.40	50.00	-27.60	AVG	Р	
10	6.0720	26.27	10.72	36.99	60.00	-23.01	QP	Р	
11	15.6120	18.95	10.93	29.88	50.00	-20.12	AVG	Р	
12	15.6615	30.57	10.93	41.50	60.00	-18.50	QP	Р	

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TM1 / Line: Neutral / Band: 2.4G / BW: 1 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	34.27	10.60	44.87	64.01	-19.14	QP	Р	
2	0.1905	17.59	10.60	28.19	54.01	-25.82	AVG	Р	
3	0.2490	31.70	10.63	42.33	61.79	-19.46	QP	Р	
4	0.2580	14.03	10.63	24.66	51.50	-26.84	AVG	Р	
5	0.3209	26.53	10.62	37.15	59.68	-22.53	QP	Р	
6	0.3209	16.96	10.62	27.58	49.68	-22.10	AVG	Р	
7	0.4334	28.80	10.61	39.41	57.19	-17.78	QP	Р	
8	0.4425	18.50	10.61	29.11	47.01	-17.90	AVG	Р	
9	0.6180	28.77	10.68	39.45	56.00	-16.55	QP	Р	
10	0.6401	17.73	10.69	28.42	46.00	-17.58	AVG	Р	
11	2.1300	29.33	10.04	39.37	56.00	-16.63	QP	Р	
12 *	2.1750	19.98	9.82	29.80	46.00	-16.20	AVG	Р	

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6.2 Occupied Bandwidth

Test Requirement:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	Occupied bandwidth—relative measurement procedure
Test Limit:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Procedure:	 a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. j) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace from step q) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx

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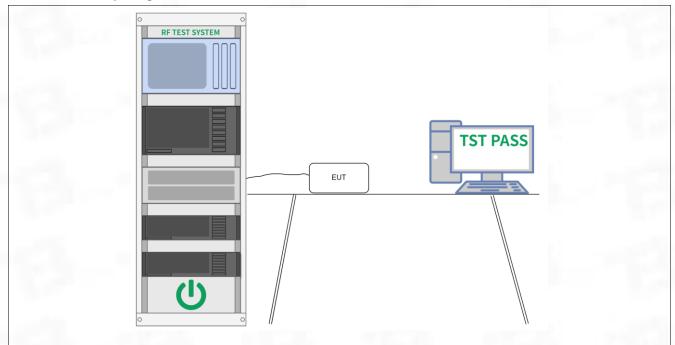


k) The occupied bandwidth shall be reported by providing plot(s) of the measuring
instrument display; the plot axes and the scale units per division shall be clearly
labeled. Tabular data may be reported in addition to the plot(s).

6.2.1 E.U.T. Operation:

Operating Environment:				
Temperature:	25.7 °C			
Humidity:	51.7 %			
Atmospheric Pressure:	1010 mbar			

6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.



6.3 Maximum Conducted Output Power

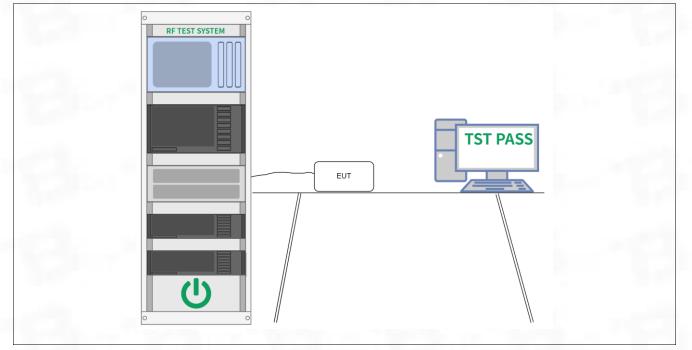
Test Requirement:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices
Test Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Procedure:	 This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

6.3.1 E.U.T. Operation:

Operating Environment:			
Temperature:	25.7 °C		
Humidity:	51.7 %		
Atmospheric Pressure:	1010 mbar		



6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.



Channel Separation 6.4

Test Requirement:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	Carrier frequency separation
Test Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

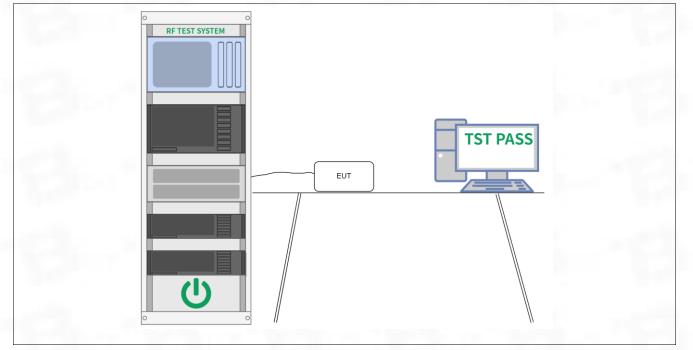
6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25.7 °C
Humidity:	51.7 %
Atmospheric Pressure:	1010 mbar

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6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.



Number of Hopping Frequencies 6.5

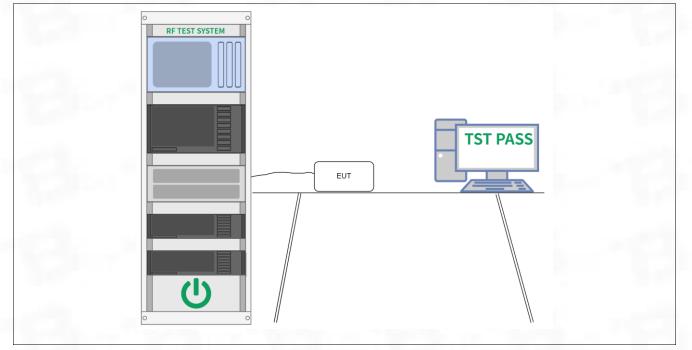
Test Requirement:	Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	Number of hopping frequencies
Test Limit:	Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

6.5.1 E.U.T. Operation:

Operating Environment:				
Temperature:	25.7 °C	1.00		
Humidity:	51.7 %			
Atmospheric Pressure:	1010 mbar			



6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.



Dwell Time 6.6

Test Requirement:	Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	Time of occupancy (dwell time)
Test Limit:	Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
	The EUT shall have its hopping function enabled. Use the following spectrum
	analyzer settings:
	a) Span: Zero span, centered on a hopping channel.
	 b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
	c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
	d) Detector function: Peak.
	e) Trace: Max hold.
	Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test
Procedure:	for each variation in transmit time.
	Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the
	requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the
	following equation:
	(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements /
	analyzer sweep time)
	The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.
	The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.
6.6.1 EILT Operation:	

6.6.1 E.U.T. Operation:

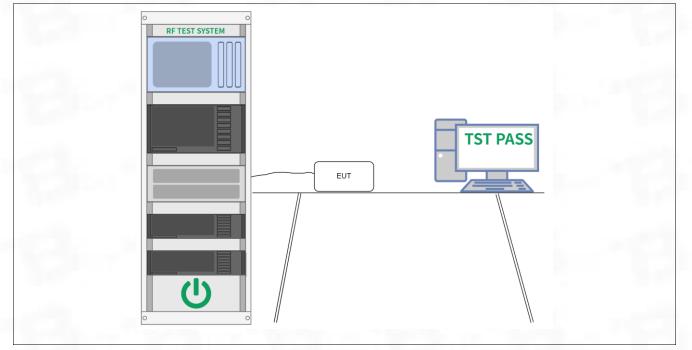
Operating Environment:						
Temperature:	25.7 °C					
Humidity:	51.7 %					
Atmospheric Pressure:	1010 mbar					

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6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Please Refer to Appendix for Details.



6.7 Emissions in non-restricted frequency bands

Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Conducted spurious emissions test methodology
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

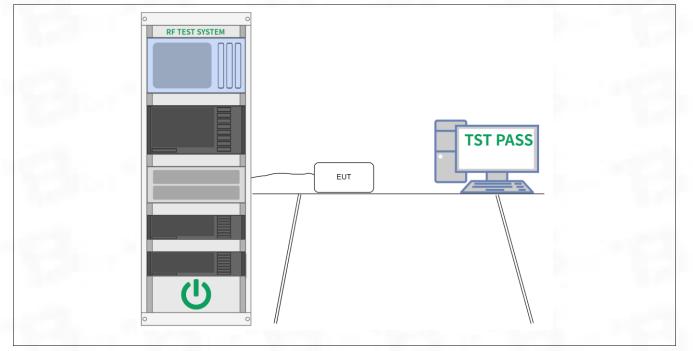
6.7.1 E.U.T. Operation:

Operating Environment:				
Temperature:	25.7 °C			
Humidity:	51.7 %			
Atmospheric Pressure:	1010 mbar			

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6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Please Refer to Appendix for Details.



6.8 Band edge emissions (Radiated)

Test Requirement:	15.205(a), must also co	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
Test Method:	Radiated emissions test	Radiated emissions tests							
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)						
	0.009-0.490	2400/F(kHz)	300						
Test Limit:	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						
	Above 960	500	3						
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.								
Procedure:	ANSI C63.10-2013 sect	ion 6.6.4							
6.8.1 E.U.T. Operation	:	1000							
Operating Environment:									
Temperature:	25.7 °C								

Temperature:	25.7 °C
Humidity:	51.7 %
Atmospheric Pressure:	1010 mbar



6.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	43.87	-4.39	39.48	74.00	-34.52	peak	Р
2	2390.000	43.67	-4.29	39.38	74.00	-34.62	peak	Р
3 *	2400.000	48.98	-4.28	44.70	74.00	-29.30	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	69.70	-30.59	39.11	74.00	-34.89	peak	Р
2	2390.000	71.03	-30.49	40.54	74.00	-33.46	peak	Р
3 *	2400.000	74.33	-30.48	43.85	74.00	-30.15	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	77.07	-30.39	46.68	74.00	-27.32	peak	Р
2	2500.000	72.21	-30.37	41.84	74.00	-32.16	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1 *	2483.500	78.37	-30.39	47.98	74.00	-26.02	peak	Р
[2	2500.000	73.75	-30.37	43.38	74.00	-30.62	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	68.21	-30.59	37.62	74.00	-36.38	peak	Р
2	2390.000	68.59	-30.49	38.10	74.00	-35.90	peak	Р
3 *	2400.000	76.99	-30.48	46.51	74.00	-27.49	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	44.91	-5.79	39.12	74.00	-34.88	peak	Р
2	2390.000	46.79	-5.69	41.10	74.00	-32.90	peak	Р
3 *	2400.000	54.69	-5.68	49.01	74.00	-24.99	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	79.36	-30.39	48.97	74.00	-25.03	peak	Р
2	2500.000	72.21	-30.37	41.84	74.00	-32.16	peak	Р

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	78.43	-30.39	48.04	74.00	-25.96	peak	Р
2	2500.000	69.92	-30.37	39.55	74.00	-34.45	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	70.01	-30.59	39.42	74.00	-34.58	peak	Р
2	2390.000	69.74	-30.49	39.25	74.00	-34.75	peak	Р
3 *	2400.000	78.37	-30.48	47.89	74.00	-26.11	peak	Р

TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2310.000	71.21	-30.59	40.62	74.00	-33.38	peak	Р
2	2390.000	71.67	-30.49	41.18	74.00	-32.82	peak	Р
3 *	2400.000	80.09	-30.48	49.61	74.00	-24.39	peak	Р

TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1 *	2483.500	75.95	-30.39	45.56	74.00	-28.44	peak	Р
1	2	2500.000	68.59	-30.37	38.22	74.00	-35.78	peak	Р

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	2483.500	76.93	-30.39	46.54	74.00	-27.46	peak	Р
2	2500.000	70.57	-30.37	40.20	74.00	-33.80	peak	Р



6.9 Emissions in restricted frequency bands (below 1GHz)

Test Requirement:		ssions which fall in the restricted mply with the radiated emission (c)).`					
Test Method:	Radiated emissions test	S	1				
	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				
Test Limit:	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	radiators operating unde 54-72 MHz, 76-88 MHz,	paragraph (g), fundamental em er this section shall not be locate 174-216 MHz or 470-806 MHz. s permitted under other sections	d in the frequency bands However, operation within				
Procedure:	ANSI C63.10-2013 section 6.6.4						
6.9.1 E.U.T. Operation:		1000					
Operating Environment:							

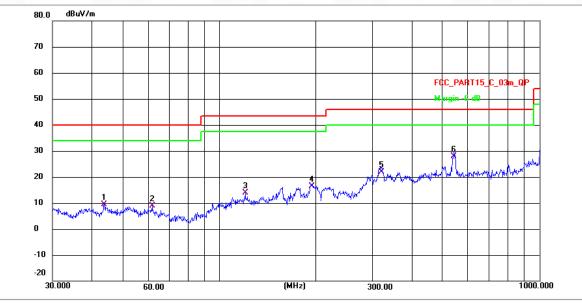
Operating Environment:	
Temperature:	24.8 °C
Humidity:	53 %
Atmospheric Pressure:	1010 mbar

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6.9.2 Test Data:

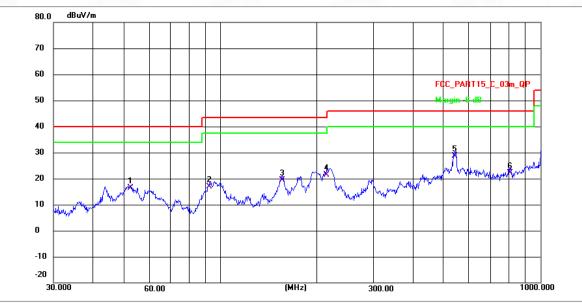
TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	43.6584	27.67	-18.36	9.31	40.00	-30.69	QP	Р
2	61.5618	27.11	-18.17	8.94	40.00	-31.06	QP	Р
3	120.2766	41.88	-28.05	13.83	43.50	-29.67	QP	Р
4	195.4789	43.83	-27.37	16.46	43.50	-27.04	QP	Р
5	320.4984	47.14	-25.27	21.87	46.00	-24.13	QP	Р
6 *	542.3225	49.55	-21.58	27.97	46.00	-18.03	QP	Р

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TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	52.2995	36.68	-20.29	16.39	40.00	-23.61	QP	Р
2	92.6247	46.36	-29.45	16.91	43.50	-26.59	QP	Р
3	156.4578	47.05	-27.72	19.33	43.50	-24.17	QP	Р
4	215.2678	48.13	-26.66	21.47	43.50	-22.03	QP	Р
5 *	542.3225	50.26	-21.58	28.68	46.00	-17.32	QP	Р
6	808.8459	45.59	-23.57	22.02	46.00	-23.98	QP	Р



6.10 Emissions in restricted frequency bands (above 1GHz)

		sions which fall in the restricted ba	
Test Requirement:		ply with the radiated emission limi	ts specified in §
	15.209(a)(see § 15.205(c)).`	
Test Method:	Radiated emissions tests		
	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
Test Limit:	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	radiators operating under 54-72 MHz, 76-88 MHz, 1	aragraph (g), fundamental emission this section shall not be located in 74-216 MHz or 470-806 MHz. Ho permitted under other sections of	the frequency bands wever, operation within
Procedure:	ANSI C63.10-2013 section	n 6.6.4	
6.10.1E.U.T. Operation:		- 19 State 19	
Operating Environment:			
Temperature:	25.7 °C		

Temperature:	25.7 °C
Humidity:	51.7 %
Atmospheric Pressure:	1010 mbar



6.10.2Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4054.418	67.39	-28.98	38.41	74.00	-35.59	peak	Р
2	6057.394	68.49	-25.33	43.16	74.00	-30.84	peak	Р
3	7635.424	71.56	-24.98	46.58	74.00	-27.42	peak	Р
4	11224.344	68.94	-23.27	45.67	74.00	-28.33	peak	Р
5	13505.119	69.03	-20.96	48.07	74.00	-25.93	peak	Р
6*	17542.867	69.28	-16.37	52.91	74.00	-21.09	peak	Р

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6029.446	67.60	-25.33	42.27	74.00	-31.73	peak	Р
2	7508.489	70.53	-24.80	45.73	74.00	-28.27	peak	Р
3	10999.529	72.69	-23.44	49.25	74.00	-24.75	peak	Р
4	12717.119	73.10	-21.49	51.61	74.00	-22.39	peak	Р
5	15690.871	71.00	-21.53	49.47	74.00	-24.53	peak	Р
6 *	17911.771	68.46	-16.77	51.69	74.00	-22.31	peak	Р



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	5138.789	70.72	-27.25	43.47	74.00	-30.53	peak	Р
[2	7284.038	72.69	-24.84	47.85	74.00	-26.15	peak	Р
	3	9872.494	73.75	-24.01	49.74	74.00	-24.26	peak	Р
	4 *	12340.533	75.04	-21.80	53.24	74.00	-20.76	peak	Р
	5	15528.449	72.73	-21.50	51.23	74.00	-22.77	peak	Р
	6	17466.974	66.69	-16.45	50.24	74.00	-23.76	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6498.138	71.80	-25.38	46.42	74.00	-27.58	peak	Р
2	7688.574	73.83	-25.06	48.77	74.00	-25.23	peak	Р
3 *	11325.368	75.14	-23.19	51.95	74.00	-22.05	peak	Р
4	12958.300	72.91	-21.37	51.54	74.00	-22.46	peak	Р
5	17311.166	67.38	-17.06	50.32	74.00	-23.68	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6585.113	70.16	-25.30	44.86	74.00	-29.14	peak	Р
2	8465.379	73.03	-25.33	47.70	74.00	-26.30	peak	Р
3	9929.730	74.01	-24.14	49.87	74.00	-24.13	peak	Р
4	11510.173	72.95	-23.05	49.90	74.00	-24.10	peak	Р
5	15358.827	72.02	-21.18	50.84	74.00	-23.16	peak	Р
6 *	17629.279	70.62	-16.46	54.16	74.00	-19.84	peak	Р

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

TM1 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	6236.832	68.85	-25.35	43.50	74.00	-30.50	peak	Р
2	7631.011	73.33	-24.98	48.35	74.00	-25.65	peak	P
3 *	11098.529	74.81	-23.37	51.44	74.00	-22.56	peak	Р
4	11919.846	72.54	-22.33	50.21	74.00	-23.79	peak	Р
5	13376.916	70.88	-21.05	49.83	74.00	-24.17	peak	Р
6	17426.632	65.08	-16.61	48.47	74.00	-25.53	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	7508.489	72.53	-24.80	47.73	74.00	-26.27	peak	Р
2	8489.882	73.86	-25.32	48.54	74.00	-25.46	peak	Р
3	9344.944	72.98	-23.55	49.43	74.00	-24.57	peak	Р
4	13689.835	69.47	-21.02	48.45	74.00	-25.55	peak	Р
5	15613.961	69.35	-21.52	47.83	74.00	-26.17	peak	Р
6 *	17875.568	66.81	-16.72	50.09	74.00	-23.91	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1945.760	72.40	-31.01	41.39	74.00	-32.61	peak	Р
2	6677.109	74.60	-25.22	49.38	74.00	-24.62	peak	Р
3	7422.180	72.90	-24.80	48.10	74.00	-25.90	peak	Р
4	14728.435	68.92	-20.84	48.08	74.00	-25.92	peak	Р
5	15923.882	68.98	-21.57	47.41	74.00	-26.59	peak	Р
6 *	17629.279	69.12	-16.46	52.66	74.00	-21.34	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2929.786	74.71	-29.63	45.08	74.00	-28.92	peak	Р
2	7062.213	71.61	-24.91	46.70	74.00	-27.30	peak	Р
3	8678.441	73.72	-24.96	48.76	74.00	-25.24	peak	Р
4 *	11670.975	73.87	-22.76	51.11	74.00	-22.89	peak	Р
5	14626.619	68.78	-21.00	47.78	74.00	-26.22	peak	Р
6	17911.771	66.46	-16.77	49.69	74.00	-24.31	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2946.771	73.01	-29.60	43.41	74.00	-30.59	peak	Р
2	7052.014	74.89	-24.91	49.98	74.00	-24.02	peak	Р
3	7771.240	74.06	-25.19	48.87	74.00	-25.13	peak	Р
4	9155.125	74.27	-23.97	50.30	74.00	-23.70	peak	Р
5	13481.718	71.02	-20.98	50.04	74.00	-23.96	peak	Р
6 *	17782.809	69.51	-16.62	52.89	74.00	-21.11	peak	Р



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
	1	2891.926	75.02	-29.70	45.32	74.00	-28.68	peak	Р
	2	5138.789	71.72	-27.25	44.47	74.00	-29.53	peak	Р
	3 *	7246.240	74.46	-24.86	49.60	74.00	-24.40	peak	Р
	4	7631.011	74.33	-24.98	49.35	74.00	-24.65	peak	Р
	5	12827.871	68.78	-21.44	47.34	74.00	-26.66	peak	Р
[6	15252.653	70.32	-20.96	49.36	74.00	-24.64	peak	Р

TM2 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

TM2 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2916.268	74.04	-29.65	44.39	74.00	-29.61	peak	Р
2	3288.870	71.46	-29.24	42.22	74.00	-31.78	peak	Р
3	7521.522	73.26	-24.81	48.45	74.00	-25.55	peak	Р
4	8678.441	74.22	-24.96	49.26	74.00	-24.74	peak	Р
5	15327.783	70.52	-21.12	49.40	74.00	-24.60	peak	Р
6 *	18000.000	66.37	-16.86	49.51	74.00	-24.49	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	5306.331	77.68	-27.11	50.57	74.00	-23.43	peak	Р
2	5876.320	75.62	-25.73	49.89	74.00	-24.11	peak	Р
3	9291.079	73.30	-23.67	49.63	74.00	-24.37	peak	Р
4	12654.785	70.24	-21.53	48.71	74.00	-25.29	peak	Р
5	15235.029	68.92	-20.91	48.01	74.00	-25.99	peak	Р
6	17782.809	64.51	-16.62	47.89	74.00	-26.11	peak	Р

TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: L

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: L

			1	1				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1274.066	75.99	-30.47	45.52	74.00	-28.48	peak	Р
2	7704.146	75.12	-25.09	50.03	74.00	-23.97	peak	Р
3	8465.379	76.03	-25.33	50.70	74.00	-23.30	peak	Р
4	9610.652	74.24	-23.44	50.80	74.00	-23.20	peak	Р
5	12589.118	70.48	-21.56	48.92	74.00	-25.08	peak	Р
6 *	17875.568	68.31	-16.72	51.59	74.00	-22.41	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1053.708	71.92	-29.27	42.65	74.00	-31.35	peak	Р
2	2920.485	73.64	-29.65	43.99	74.00	-30.01	peak	Р
3	7202.390	74.01	-24.87	49.14	74.00	-24.86	peak	Р
4	14317.095	71.74	-21.16	50.58	74.00	-23.42	peak	Р
5 *	15358.827	73.02	-21.18	51.84	74.00	-22.16	peak	Р
6	16798.538	69.57	-18.64	50.93	74.00	-23.07	peak	Р

TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: M

TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: M

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	4045.053	75.03	-28.98	46.05	74.00	-27.95	peak	Р
2	7422.180	72.40	-24.80	47.60	74.00	-26.40	peak	Р
3 *	9610.652	75.24	-23.44	51.80	74.00	-22.20	peak	Р
4	11840.867	72.47	-22.47	50.00	74.00	-24.00	peak	Р
5	14830.959	69.85	-20.67	49.18	74.00	-24.82	peak	Р
6	17989.598	67.59	-16.85	50.74	74.00	-23.26	peak	Р



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1023.688	73.93	-29.11	44.82	74.00	-29.18	peak	Р
2	2057.387	74.21	-30.87	43.34	74.00	-30.66	peak	Р
3	4351.938	79.35	-28.85	50.50	74.00	-23.50	peak	Р
4	6677.109	74.60	-25.22	49.38	74.00	-24.62	peak	Р
5	9591.227	73.56	-23.40	50.16	74.00	-23.84	peak	Р
6 *	13477.822	72.63	-20.98	51.65	74.00	-22.35	peak	Р

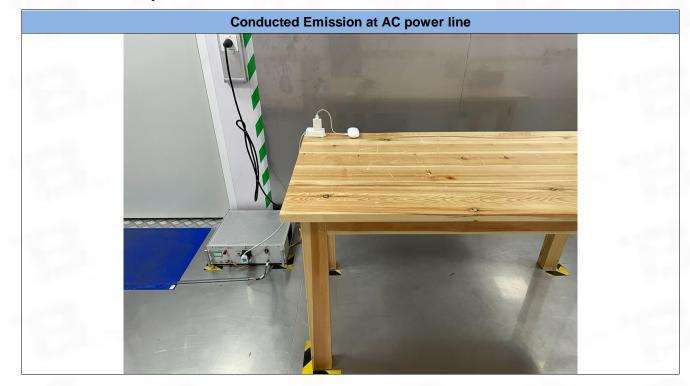
TM3 / Polarization: Horizontal / Band: 2.4G / BW: 1 / CH: H

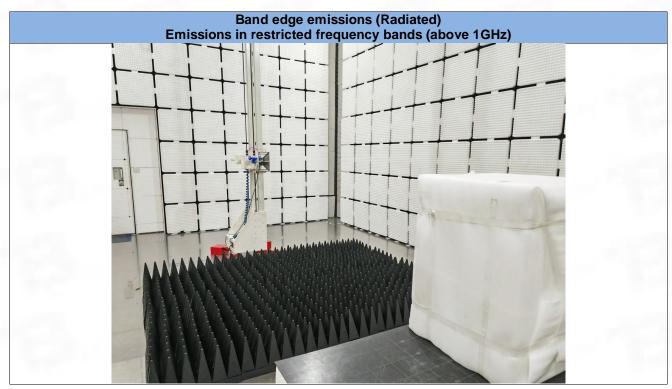
TM3 / Polarization: Vertical / Band: 2.4G / BW: 1 / CH: H

				1				
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3602.366	73.47	-29.04	44.43	74.00	-29.57	peak	Р
2	4355.713	74.73	-28.85	45.88	74.00	-28.12	peak	Р
3	6764.524	72.05	-25.14	46.91	74.00	-27.09	peak	Р
4	8997.723	73.12	-24.31	48.81	74.00	-25.19	peak	Р
5 *	11224.344	75.54	-23.27	52.27	74.00	-21.73	peak	Р
6	16798.538	68.57	-18.64	49.93	74.00	-24.07	peak	Р



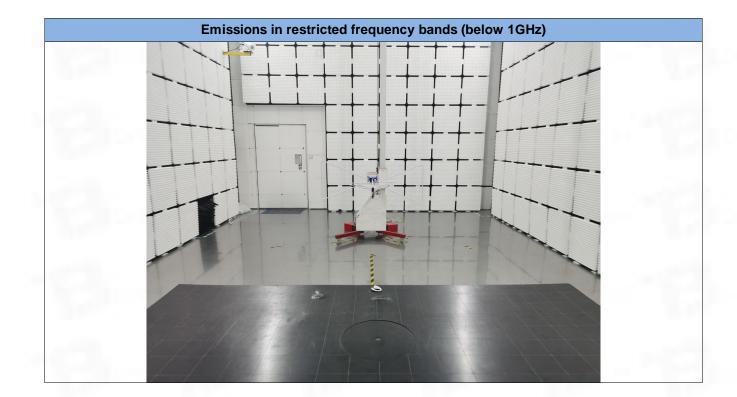
7 Test Setup Photos





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8 EUT Constructional Details (EUT Photos)

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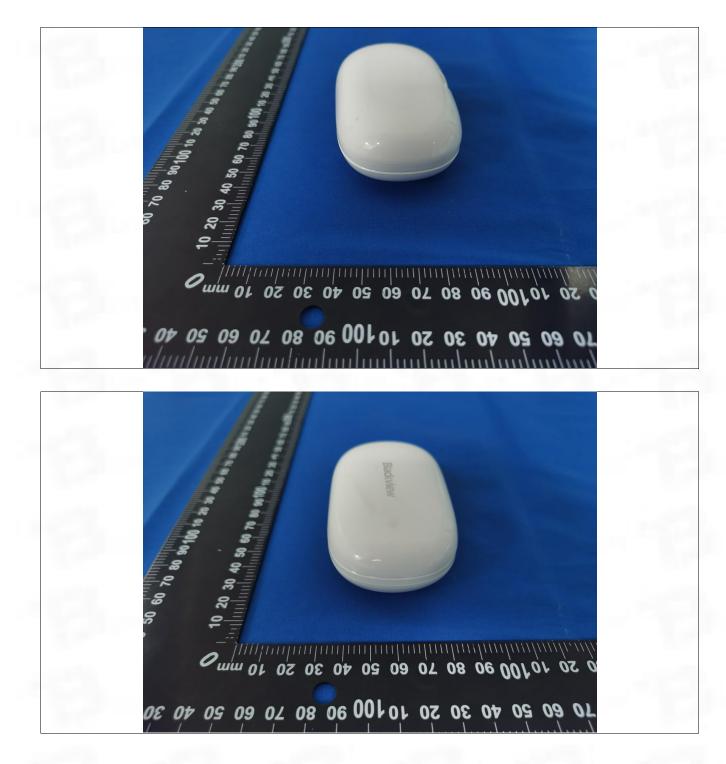




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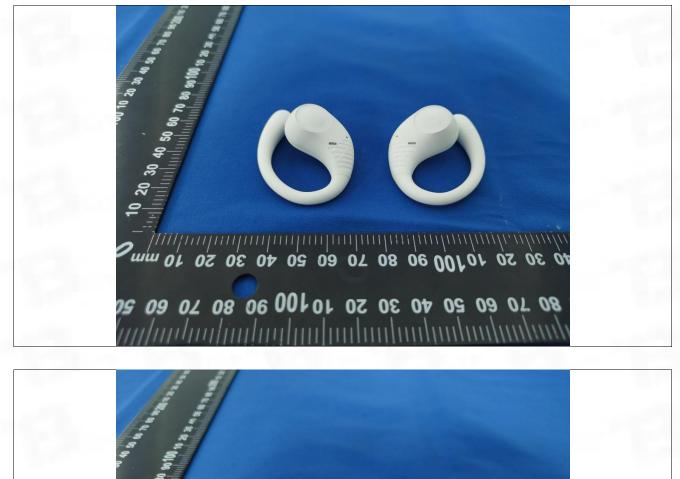




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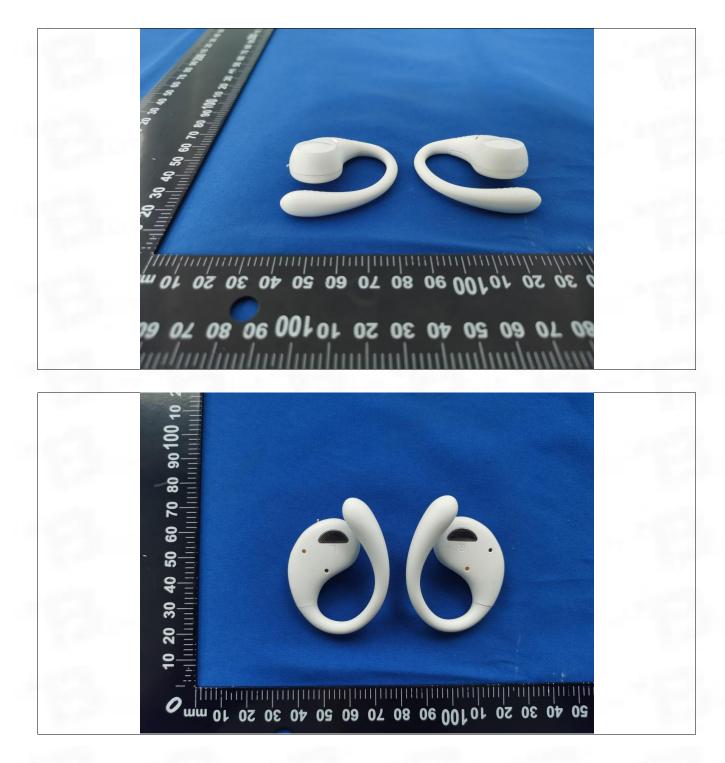
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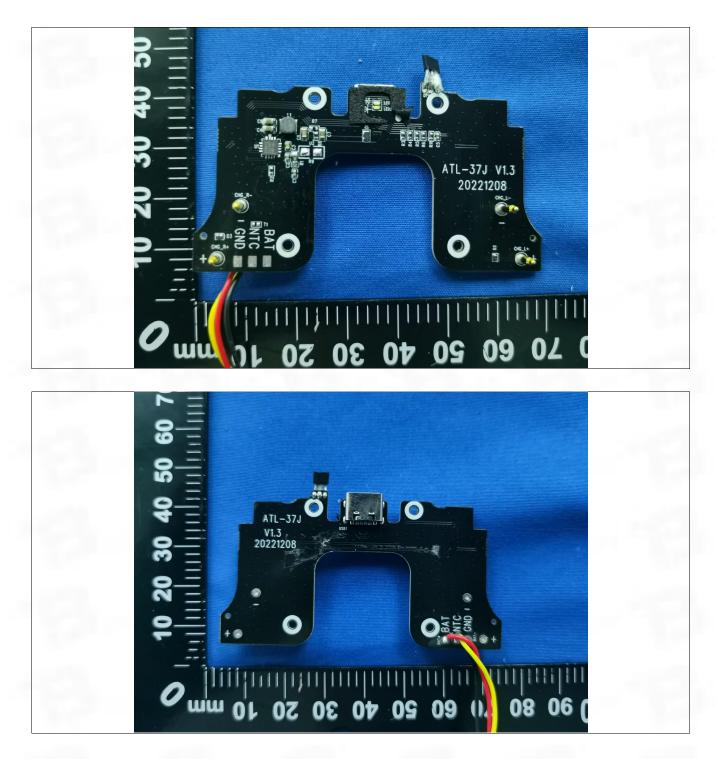
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