

FCC ID: 2AV7NCV-2

FCC Test Report

Applicant

Anbolek

GUANGZHOU RANTION TECHNOLOGY CO.,

LTD.

Address

Anbolek

Room 7002 and 7003, 7th Floor, Digital

Entertainment Industrial Park, Greater Bay Area,

No. 28 Huangpu Park West Road, Huangpu

District, Guangzhou, China.

Product Name

Wireless Microphone System

Report Date

: Aug. 13, 2024

Shenzhen Anbotek



Laboratory Limited







Report No.:182512C400522101

FCC ID: 2AV7NCV-2

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APPENDIX III -- INTERNAL PHOTOGRAPH

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TEST REPORT

Applicant GUANGZHOU RANTION TECHNOLOGY CO., LTD.

GUANGZHOU RANTION TECHNOLOGY CO., LTD. Manufacturer

Wireless Microphone System **Product Name**

CV-2, CV-1, CV-3, EC6970 Model No.

Trade Mark DONNER

Input: 5V- 100mA Rating(s)

Battery Capacity: DC 3.7V, 400mAh, 1.48Wh

47 CFR Part 15.247

Test Standard(s) ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Jul. 19, 2024
All sek anbotek Anb	Spalek Aupo K Wolek Aupole
Date of Test:	Jul. 19, 2024 to Aug. 07, 2024
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hotek Anbotek And otek Anbotek	Ella Liang
Prepared By: Ambound Anbound	tek Anbore Anboren
Annotak Anbolek Anbole	(Ella Liang)
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tek upotek Anbo ok potek	1900 Concret for
Approved & Authorized Signer:	autoley and rek upolek
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Revision History

'polek	Anbotek Anbotek	Revision History	Tek Aupotek Aupotek
Aupore	Report Version	Description	Issued Date
Anb	nbotek AnROO Anbo	Original Issue.	Aug. 13, 2024
tek	Aupotek Aupoter Aup	otek Vupotek Vupo	Aupotek Aupote V
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1. General Information

1.1. Client Information

	- Mo.	- 1	
0	Applicant	:	GUANGZHOU RANTION TECHNOLOGY CO., LTD.
-	Address	:	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China.
	Manufacturer		GUANGZHOU RANTION TECHNOLOGY CO., LTD.
,e	Address	:	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China.

1.2. Description of Device (EUT)

. 40°		"Or Villa Sk
Product Name	:	Wireless Microphone System
Model No.	:	CV-2, CV-1, CV-3, EC6970 (Note: All samples are the same except the model number, so we prepare "CV-2" for test only.)
Trade Mark	•	DONNER And tek Andotek Andotek Andotek Andotek
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Aupotek Aupotek Aupotek Aupote Au
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 hotek Anbores All botek Anborek Anborek
Modulation Type	:	GFSK Anbores And hotel Anbores Anbores
Antenna Type		FPC Antenna Antone Anto
Antenna Gain(Peak)	:	4.15dBi Andorek Andorek Andorek Andorek Andorek

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.









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1.3. Auxiliary Equipment Used During Test

	Title	Manufacturer	Model No.	Serial No.	
26	Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	
-	1.4. Operation chann	nel list	Anbolek Anbole	ek Vuporek Vupo	(e)

1.4. Operation channel list

Operation Band:

Operation	Dariu.	AUD		y ab), k.	-V-	Pole.
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0 1	016 2402 Ant	ole* 20 A	2422	, nb 40	2442	60 tek	2462
1	2403	Anbolak	2423	4.5 rek	2443	61	2463,00010
Anbole 2	2404	22	2424	42 nbotel	2444	62	001el 2464 Ant
Aup 3	2405	23,601ek	2425	43	otek 2445 Anb	63	2465
Abolok	2406	× 24 Anb	2426 Anbo	44	2446	nb ⁰ 64	2466
5 Anbo	2407	10 Lev 25	100 2427 N	45	2447	M 65	2467
otek 6	1001e 2408 AT	26	2428	Anh 46	2448	66°0'	2468
V ₀₁₀ 7	2409	Anb 27 tek	2429	47	2449	67 Anbo	2469
8 tek	2410	28	2430	48 Anbot	2450	otek 68 M	2470
And 9 olek	241100 tel	29 100	2431	itek 49 An	2451	, 69	2471
10	tek 2412 Anbo	30 Aug	2432	nbote50	2452	70.04	2472
11 Ans	2413	nbotek31	2433	51 ²	2453	71 potek	2473
12	2414	Anb 32	2434	52 otek	2454	72	16 2474 Anbo
Anbolos	2415	33010	2435	53	2455 _{Anbot}	73	2475
A14 10 K	2416	34 nbote	2436	54	2456 AT	74	2476
15, 10010	2417	35 N	ote ^k 2437 Ant	55	2457	Anbores	2477
16 An	2418 And	36	2438	Anbore 56	2458	76	2478
notek17	2419	37	2439	№57	2459	77,nbote	2479
18	2420	A7038	2440	58 ¹⁰⁰ 10	2460	ek 78 Ant	2480 And
And 19 tek	2421	39	2441	^k 59 knbc	2461	holek -	Aupoles -
		/ "0"	P.'		10,	110	10.







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1.5. Description of Test Modes

3,4	Pretest Modes		Descriptions
0	TM1	potel	Keep the EUT in continuously transmitting mode (non-hopping).
1	TM2	DU/C	Keep the EUT in continuously transmitting mode (hopping).

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB Anbotek And
Occupied Bandwidth	925Hz Anbotek Anbotek
Conducted Output Power	0.76dB Anbotek Anb
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

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

1.7. Test Summary

Test Items	Test Modes	Status		
Antenna requirement	Anbo rek anbore	P Anbo		
Conducted Emission at AC power line	Mode1	otek P A		
Occupied Bandwidth	Mode1	nboleP		
Maximum Conducted Output Power	Mode1	Nup Bek		
Channel Separation	Mode2	Pabolek		
Number of Hopping Frequencies	Mode2	k P nb		
Dwell Time And	Mode2	Lek P		
Emissions in non-restricted frequency bands	Mode1,2	P		
Band edge emissions (Radiated)	Mode1	Anber Prek		
Emissions in frequency bands (below 1GHz)	Model note	And Ale		
Emissions in frequency bands (above 1GHz)	Mode1 Anbotek	P ^{hupor}		
Note: And Andrew Andrew	Yun Vek Vipo,	EK VUL		

P: Pass

N: N/A, not applicable







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1.8. Description of Test Facility

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

FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 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.
- The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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



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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	W. Upolek	Anbore	Y Votek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
nbolek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
Anbo	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
o ^{xe} 4	Artificial Mains Network	Schwarzbeck	PVDC 8301	8301- 00097	2024-01-17	2025-01-16
nistick	Artificial Power Network	Schwarzbeck	PVDC 8301	8301- 01021	2024-01-17	2025-01-16
60pc	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Aupor	Aupore),

Dwell Time

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Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
10	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
0	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
	30te	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
	4 _{An}	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
	5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
O	6	MXG RF Vector Signal Generator	Agilent bottom	N5182A	MY474206 47	2024-02-04	2025-02-03



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	d edge emissions (Ra ssions in frequency ba		Anborek A	Aupotek Vek	Vupotek	Aupolek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Woolek	Yupoto Votek
) te\5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
Anb6ie	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Zuk	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emis	ssions in frequency ba	ands (below 1GHz)	Aupolek	Vupo.	Aupolek	Vupo _{le} ,
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1,	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
Anba	Pre-amplifier	SONOMA	310N A	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	10 345	2022-10-23	2025-10-22
4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.	EMI Test Software EZ-EMC	SHURPLE	N/A ^{botes}	N/A	otek / Aupote	K / Anbo

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Report No.:182512C400522101

FCC ID: 2AV7NCV-2

2. Antenna requirement

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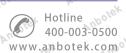
Test Requirement:

Refer to 47 CFR Part 15.203, 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.

2.1. Conclusion

The antenna is a FPC Antenna which permanently attached, and the best case gain of the antenna is 4.15dBi. It complies with the standard requirement.

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FCC ID: 2AV7NCV-2

3. Conducted Emission at AC power line

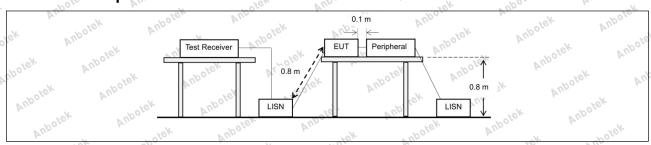
otek Vupotek	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator to the section of the	hat is designed to be con idio frequency voltage tha	nected to the at is conducted
Test Requirement:	back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	exceed the limits in the fo	ollowing table, as
Vupo ex	Frequency of emission (MHz)	Conducted limit (dBµV)	ek abolek
k Aupole, Aur	rak Spokek Aupo	Quasi-peak	Average
- clek	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	.56 h	46
iek "upoter	5-30 And	60	50
Aupore K. Potek	*Decreases with the logarithm of the	ne frequency.	botek
Test Method:	ANSI C63.10-2020 section 6.2	polek Aupole	VII.
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

3.1. EUT Operation

Anbotek

Operating En	vironment:	Aupoles.	Aug 16k	* upotek	Aupo	polek	Anic
Test mode:	1: TX (No hopping)	, av. 0,	Keep the EUT	in continuousl	y transmitting n	node (non-	
3.2. Test Se	etup spokek	Anbore	k Vun	k Aupote	Anbo	ek nbotel	6

3.2. Test Setup





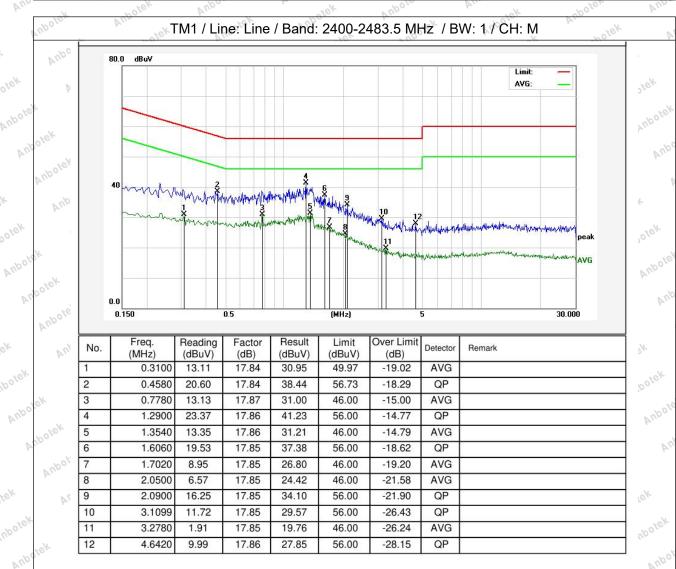




FCC ID: 2AV7NCV-2

3.3. Test Data

Temperature: 23 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



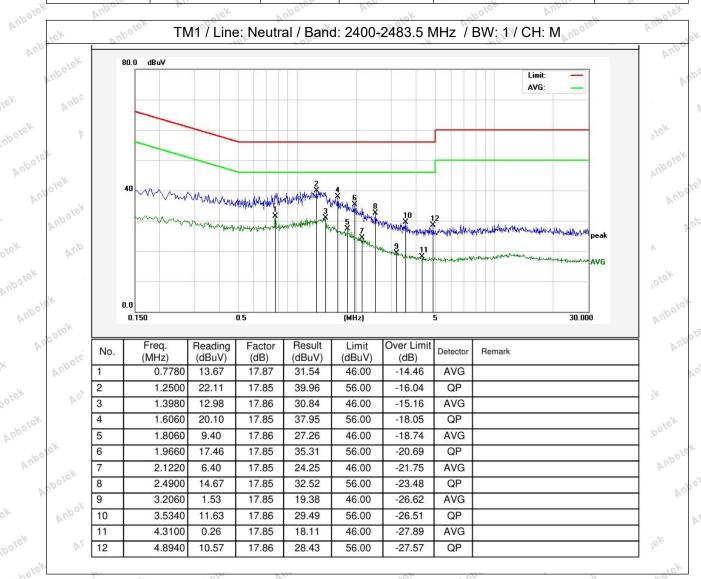






Report No.:182512C400522101 FCC ID: 2AV7NCV-2

Temperature: 23 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Shenzhen Anbotek Compliance Laboratory Limited

Aupolek



Aupotek



Aupolek

Report No.:182512C400522101 Anbotek

FCC ID: 2AV7NCV-2

4. Occupied Bandwidth

Anbotek Te	est Requirement:	Refer to 47 CFR 15.215(c), 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.
Anbotek Anbotek Anbotek	And	ANG 000 40 5000 (1 7 0 0 F
Polek Volek	est Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 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 VBW shall be at least three times the 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 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is
otek Vupotek	Anbotek Anbotek	recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of

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FCC ID: 2AV7NCV-2

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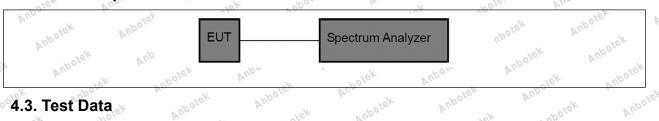
Anbotek

Aupolek

Anbolek 4.1. EUT Operation

Operating Env	vironment:	Anbo	-polek	Anbore.	VIII.	Aupolek
Test mode:	1: TX (Non-H hopping).	lopping): Keep t	the EUT in con	tinuously transr	nitting mode (non	Anbok
4.2. Test Se	tupsek	Ipolek Vup.	101	potek Aupo	V Pr	SK An

4.2. Test Setup



4.3. Test Data

Temperature: 26.3 ° C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

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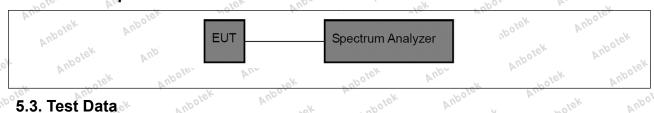
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), 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:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek Votek Vupotek Votek Vupotek Votek Vupotek	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. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
ek Anbotek An	 b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure: Anbotek Anbotek	f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
Aupolek Aupo	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
sek Vupose Vi	j) A spectral plot of the test results and setup description shall be included in the test report.
Anbotek Anbotek	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.

5.1. EUT Operation

Operating Envir	onment;	Aup	a upotek	Anbo	hotek.	Vupole.
Test mode:	1: TX (Non-Hop hopping).	ping): Keep the E	JT in contin	uously transn	nitting mode (non-	Anbol

5.2. Test Setup



5.3. Test Data

Temperature: 26.3 ° C	Humidity: 45 %	Atmospheric Pressure:	101 kPa	8
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Please Refer to Appendix for Details.







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Report No.:182512C400522101

FCC ID: 2AV7NCV-2

6. Channel Separation

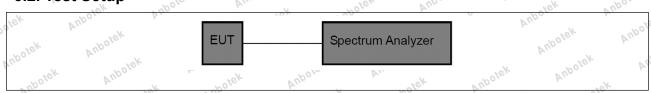
Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kl the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483. band may have hopping channel carrier frequencies that are separate 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output porgreater than 125 mW. Test Method: ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02 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.	
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.	Hz or 5 MHz ed by
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.	Anb
	,0
d) Sweep: No faster than coupled (auto) time. 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 spectral plot of the data shall be included in the test report.	Yu.

6.1. EUT Operation

Operating Envi	ronment:	Aupole	Vun.	Anborek	Anbo	polek.
Test mode:	2: TX (Hopp	ing): Keep	the EUT in cont	inuously trans	mitting mode (h	opping).

6.2. Test Setup

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6.3. Test Data

ye.	Temperature:	26.3 ° C	Humidity:	45 %	Atmospheric Pressure:	101 kPa	Y9)

Please Refer to Appendix for Details.









FCC ID: 2AV7NCV-2

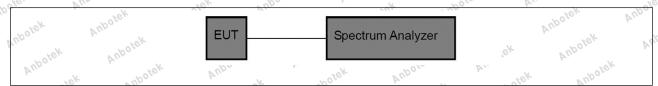
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anborek	Refer to 47 CFR 15.247(a)(1)(iii), 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:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek	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 could 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: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ek ^{Vupose} k Vi	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 spectral plot of the data shall be included in the test report.

7.1. EUT Operation

Operating Envir	ronment:	Votek.	Aupoles	Vuga Viek	Vuporek	Aupo
Test mode:	2: TX (Hopp	ing): Keep the	EUT in cont	inuously transmit	ting mode (ho	pping), noote

7.2. Test Setup



7.3. Test Data

Temperature:	26.3 °	Cope	Humidity:	45 % nbotek	Atmospheric Pres	ssure: 101 kPa

Please Refer to Appendix for Details.





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Anbotek

Report No.:182512C400522101 Anbotek

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8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Frequency 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:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
Who sek Aupotek	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
Anbotek Anbotek Anbotek Procedure: Anbotek	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest
Anbotek Anbotek	dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per
Potek Auporek Vindorek	hop: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
Aupotek Aupotek	set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
ek Anbotek Anbotek	d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
Aupotek Aupotek	e) Detector function: Peak.f) Trace: Clear-write, single sweep.g) Place markers at the start of the first transmission on the channel and at







FCC ID: 2AV7NCV-2

the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

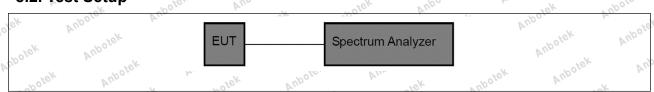
8.1. EUT Operation

Operating Environment:

Test mode:

2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping).

8.2. Test Setup



8.3. Test Data

Temperature:	26.3 ° C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), 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:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek Aupotek Aupotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
Anbotek Anbo	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 frequency range of
potek Aupotek	testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: Anbotek Anbotek Anbotek Anbotek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be
Aupolek Aupol	when conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring
Aupotek Aupotek	using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the





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exception that the resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

9.1. EUT Operation

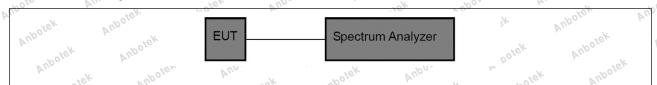
A. C.		. 010
Operating	Enviro	nmont
COELABID		minen

Test mode:

1: TX (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping).

2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping).

9.2. Test Setup



9.3. Test Data

Temperature: 26.3 ° C Humidity: 45 % Atmospheric Pressure: 101 kPa
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Please Refer to Appendix for Details.









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10. Band edge emissions (Radiated)

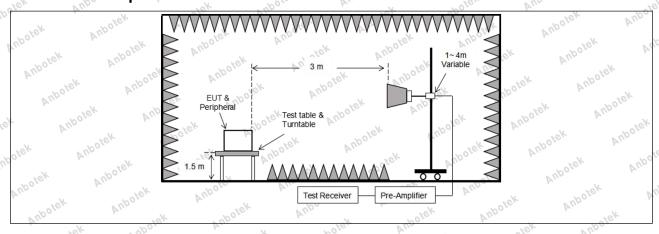
Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
anbolek Anbo	0.009-0.490	2400/F(kHz)	300 And
W. Olek W.	0.490-1.705	24000/F(kHz)	30
Anbo	1.705-30.0	30	30
rek "upoler	30-88	100 **	3 rek And
y, Viek	88-216	150 ** 200 **	3 50101
apolek Aupo	216-960 Above 960	500 Market Market	3 100°
16.1.	A 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ions from
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-page 110-490 kHz and a section of the section of the section of the section with the section of t	ing under this section shall not b Iz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	pe located in the 470-806 MHz. ted under other pand edges. measurements quency bands 9— ssion limits in
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a these three bands are base	ing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. The tighter limit applies at the bein the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing 6.10	pe located in the 470-806 MHz. ted under other pand edges. measurements quency bands 9— ssion limits in

10.1. EUT Operation

Operating Envi	ronment:	Anbo	holek	Anbore	VIII	Aupolek
Test mode:	1: TX (No	n-Hopping): K	eep the EUT	in continuously	transmitting mod	e (non- "otek
TOST THOUGH	hopping).		ek nho	W.	rak abolen	AUD

10.2. Test Setup

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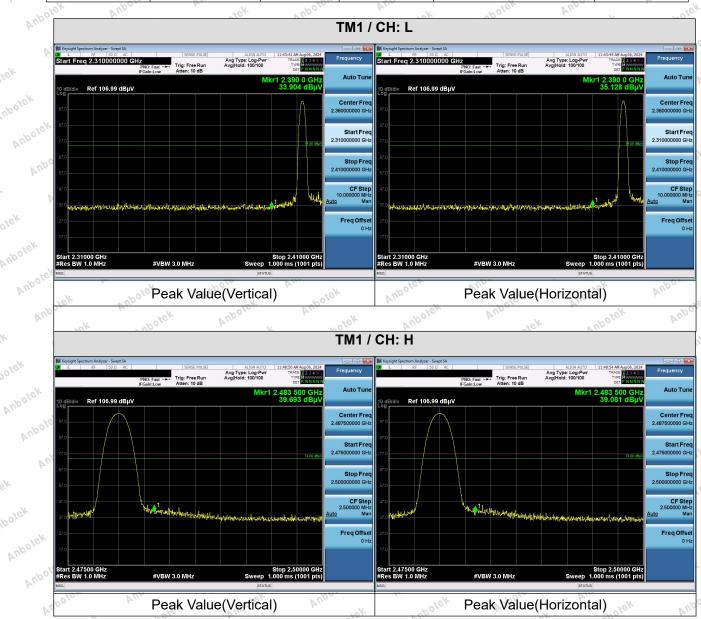
Anbotek

Report No.:182512C400522101

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10.3. Test Data

Temperature: 26.3 ° C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.









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11. Emissions in frequency bands (below 1GHz)

	PO. W.	Vie. Vu	, all 100 all	V
upole,	Test Requirement:	restricted bands, as defined	In addition, radiated emissions I in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
	Auporek Auporek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
otek	Anbotek Anb	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
, ore	k Aupolek Aup	1.705-30.0	30 K Polek Wyo	30
AUD	stek Anbotek	30-88 88-216	100 ** 150 **	3
VU	iek vupolek	216-960	200 **	3 upotek
	Aupo. W. Polek	Above 960	500 Anborek Anbo	3 hotek
,ek	Test Limit: And	intentional radiators operati	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or	e located in the
pordol	ek Vupolek Vu	However, operation within t sections of this part, e.g., §	hese frequency bands is permit § 15.231 and 15.241.	ted under other
V.	potek Aupoten		e, the tighter limit applies at the b in the above table are based on	
h.	Vupotek Vupote		peak detector except for the frequency above 1000 MHz. Radiated emis	
ek	Anbotek Anbot		ed on measurements employing	
potek	Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ootek Anbotek
Anbo	Procedure:	ANSI C63.10-2020 section	6.6.4	"upolek Vupor

11.1. EUT Operation

Operating Envir	onment:	Vupo.	h.	k Aupole	. Alla	olek.	Aupolek
Test mode:	1: TX (Non hopping).	-Hopping): I	Keep the EU	T in continuou	sly transmit	ting mode	e (non-





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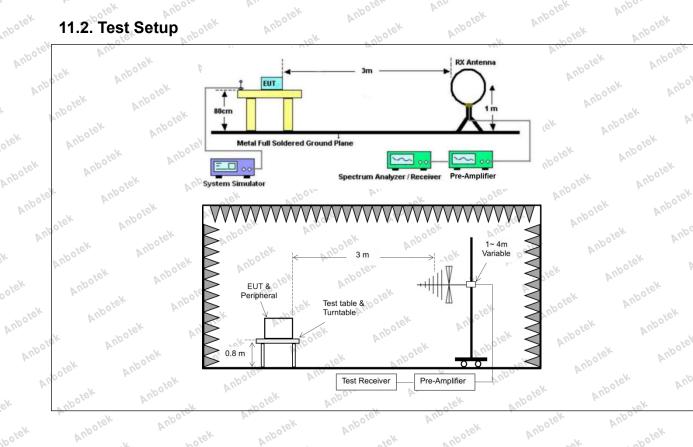
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11.2. Test Setup

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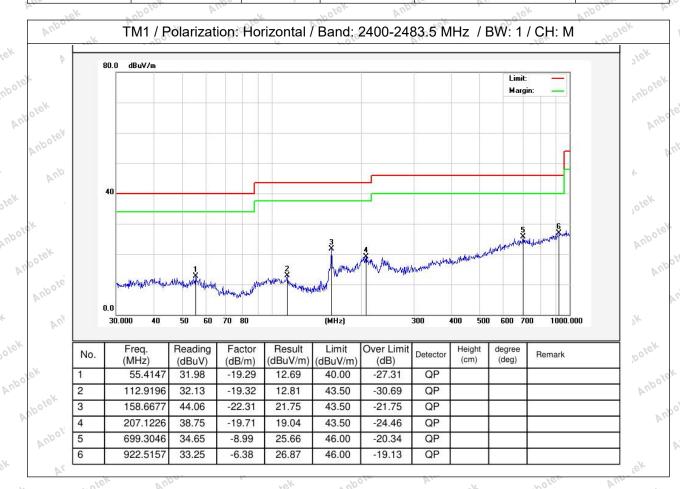


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11.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature: 20.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa









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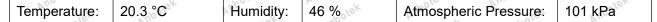
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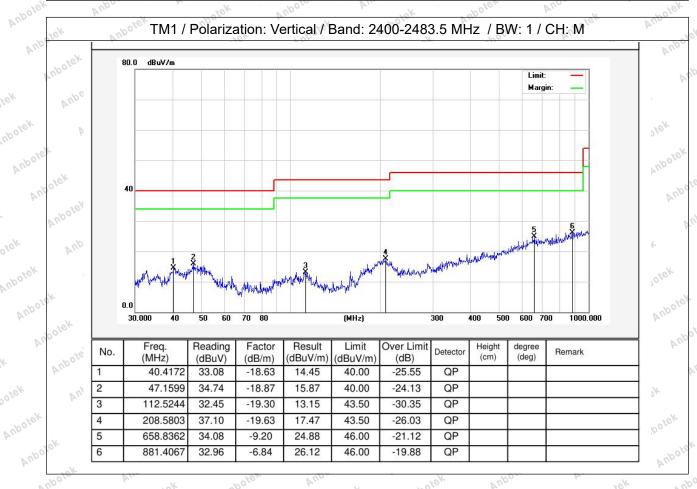
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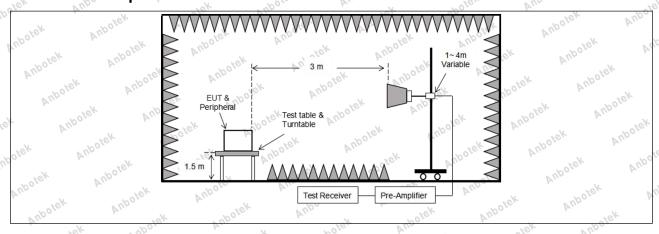
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted backers, which fall in the restricted backers. (c)).`	
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anborek Anbo	0.009-0.490	2400/F(kHz)	300
ek anbotek Anb	0.490-1.705 1.705-30.0	24000/F(kHz) 30	30
ok polek	30-88	100 **	3 lek Anbo
Rose, Yun	88-216	150 ** 200 **	3 70/0
Vuporek Vupo	216-960 Above 960	500	3 3
Test Limit:	W1. 10L	ragraph (g), fundamental emissi	ons from
Anbotek Anbote	intentional radiators operati frequency bands 54-72 MH	ng under this section shall not b z, 76-88 MHz, 174-216 MHz or	e located in the 470-806 MHz.
ek Aupotek Yu	sections of this part, e.g., §		obotel abotel
Polek Vupore.		e, the tighter limit applies at the b in the above table are based on	
Aupotek Aupotek	employing a CISPR quasi-ր	peak detector except for the frequency 1000 MHz. Radiated emis	uency bands 9–
Aupotek Vupo,	these three bands are base detector.	ed on measurements employing	an average
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		potek Anbotek
Procedure:	ANSI C63.10-2020 section	6.6.4 otok	" upolek Vupote

12.1. EUT Operation

Operating Envir	onment:	Anbor	hotek	Anbores	Aug	Anbolek
Test mode:	1: TX (Non- hopping).	-Hopping): I	Keep the EUT in	n continuously	transmitting mo	de (non-

12.2. Test Setup





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Aupolek 12.3. Test Data

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12.3. Test Data	Vupote _k	Aupo, upokek	Aupotek Aupote	Anborek
Temperature: 22.5 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa

FK Vupore.	Yun-	Yotok	VUD.	K wolek	, upor	W.,
V Vupare.	, tor	, no	TM1 / CH: L	F ~po,		v
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	30.53	15.27	45.80	74.00	-28.20	Vertical
7206.00	31.61	18.09	49.70	74.00	-24.30	Vertical
9608.00	33.17	23.76	56.93	74.00	-17.07	Vertical
12010.00	* *	rek anbo	lek Vupo	74.00	otek Vupo	Vertical
14412.00	polek * Aup	- V	Potek Vu	74.00	olek v	Vertical
4804.00	30.87	15.27	46.14	74.00	-27.86	Horizontal
7206.00	31.46	18.09	49.55	74.00	-24.45	Horizontal
9608.00	30.06	23.76	53.82	74.00	-20.18	Horizontal
12010.00	*holes	Vun	upotek	74.00	k polek	Horizontal
14412.00	* "bole	K Aupor	, NO	74.00	Bu.	Horizontal
Average value:		Factor	Dogult	Limit	Over Limit	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	19.91	15.27	35.18	54.00	-18.82	Vertical
7206.00	20.64	18.09	38.73	54.00	-15.27	Vertical
9608.00	22.19	23.76	45.95	54.00 100	-8.05	Vertical
12010.00	offer * Vun	16k 04	otek And	54.00	Potek Vul	Vertical
14412.00	Upolek * Ar	100, 1	"olek	54.00	rek	Vertical
4804.00	19.22	15.27	34.49	54.00	-19.51	Horizontal
7206.00	20.52	18.09	38.61	54.00	-15.39	Horizontal
9608.00	19.37	23.76	43.13	54.00	-10.87	Horizontal
12010.00	* * Aupolek	VUP.	k upote	54.00	ok work	Horizontal
14412.00	* *	ick Wupor		54.00 mbg	to. Vun	Horizontal

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rek	Aupolek V.	upotek Au	Polek	Anbotek A	nbotek An	Anbolek		
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	N.	- 10 L	TM1 / CH: M	- ~		<u> </u>		
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4882.00	30.55 And	15.42	45.97	74.00 And	-28.03	Vertical		
7323.00	31.46	18.02	49.48	74.00	-24.52	Vertical		
9764.00	32.18	23.80	55.98	74.00	-18.02	Vertical		
12205.00	Anbotek	Vun	* Upolek	74.00	botek	Vertical		
14646.00	*polek	Vupole.	Polek	74.00	VICK.	Vertical		
4882.00	30.57	15.42	45.99	74.00	-28.01	Horizontal		
7323.00	31.45	18.02	49.47	74.00	10 ^k -24.53 M	Horizontal		
9764.00	29.76 And	23.80	53.56	74.00	-20.44	Horizontal		
12205.00	"olek*	Vupole. V	Lek Le	74.00	Aupo	Horizontal		
14646.00	Aug *	" upolek	Auporg	74.00	Aupolok	Horizontal		
Average value								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4882.00	19.64	otel 15.42 km	35.06	54.00	-18.94 Am	Vertical		
7323.00	20.74	18.02	38.76	54.00	-15.24	Vertical		
9764.00	22.05	23.80	45.85	54.00	-8.15	Vertical		
12205.00	*16K	Anbore	Vi. Viek	54.00	VUR	Vertical		
14646.00	* olek	Aupolek	Vup.	54.00	Aupor	Vertical		
4882.00	19.13	15.42	34.55	54.00	-19.45,000°	Horizontal		
7323.00	20.08 And O	18.02	38.10	54.00	-15.90	Horizontal		
9764.00	19.88	23.80	43.68	54.00	-10.32	Horizontal		
12205.00	Nupo *	Aupolek .	Aupolo	54.00	Aupolek	Horizontal		
14646.00	Aupor*	Viek.	Aupolek	54.00	apolek	Horizontal		

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"Olek	Aupo	494	anbore	VII.	poler	AUD
		•	TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	30.82	15.58 Anbox	46.40	74.00 M	-27.60	Vertical
7440.00	31.47	17.93	49.40	74.00	-24.60	Vertical
9920.00	32.73	23.83	56.56	74.00	-17.44	Vertical
12400.00	Sportek	Anbore	"olek	74.00	Vier	Vertical
14880.00	* 016K	Aupolek	Yun Ick	74.00	Anbore	Vertical
4960.00	30.64	15.58	46.22	74.00	-27.78	Horizontal
7440.00	31.48	17.93	49.41 nov	74.00	-24.59	Horizontal
9920.00	30.44	23.83	54.27	74.00 M	-19.73	Horizontal
12400.00	*	abolek A	Upor K	74.00	Aupolo. A	Horizontal
14880.00	Aupole *	W. Olek	Vupolek	74.00	* upolek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	20.76	15.58	36.34	54.00	otek-17.66 knb	Vertical
7440.00	10016 21.75 An	17.93	39.68	54.00	-14.32	Vertical
9920.00	22.60	23.83	46.43	54.00	-7.57	Vertical
12400.00	Vun * 'Sk	abotek	Aupo	54.00	Anbore	Vertical
14880.00	Vulto.	KOICK	Aupole.	54.00	Anboick	Vertical
4960.00	20.57	15.58	36.15	54.00	-17.85	Horizontal
7440.00	21.45	17.93	39.38	54.00 kg/00	-14.62	Horizontal
9920.00	19.78	23.83 AN	43.61	54.00	10.39 An	Horizontal
12400.00	upole* * A	iek.	nbotek	54.00	polek	Horizontal
14880.00	10/0×1	Aupo	Viek.	54.00	VIII	Horizontal

Remark:

- 1. Result =Reading + Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.





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APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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