

 Report No.:
 18220WC40091301
 FCC ID: 2A7VD-H70C9
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FCC Test Report

Applicant

Shenzhen Qianyan Technology LTD

Address

No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China

Product Name : Govee Christmas String Lights 2

Report Date

Jun. 24, 2024



Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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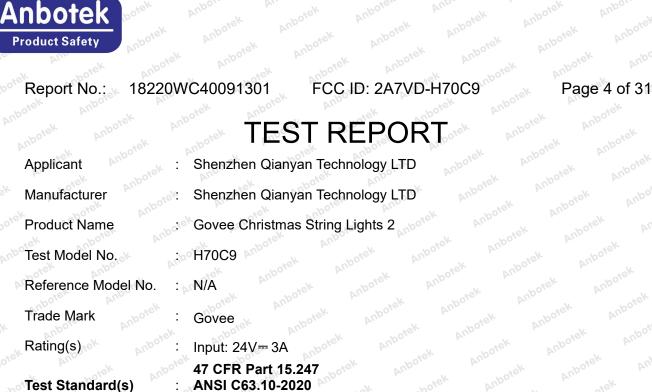


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KDB 558074 D01 15.247 Meas Guidance v05r02

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:

Date of Test:

Prepared By:

May 06, 2024 ~ Jun. 14, 2024

May 06, 2024

Lang Flla

(Ella Liang)

Idward pan

(Edward Pan)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Ve	rsion		Description			Issued Date			
R00	abotek Ant	otek l	Original Issue.	Anbotek	Anbore	Jun. 24,	2024	Anbote	
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1. General Information

1.1. Client Information

Applicant	:	Shenzhen Qianyan Technology LTD
Address	:	No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China
Manufacturer	:	Shenzhen Qianyan Technology LTD
Address	•	No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China

1.2. Description of Device (EUT)

- 100. M.		et noor an a noter and the noter
Product Name	:	Govee Christmas String Lights 2
Test Model No.	:	H70C9
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Govee And Andrek Andre Andrek Andrek Andrek Andrek
Test Power Supply	:	DC 24V from adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: ShenZhen SOY Technology Co., Ltd Model: SOY-2400300US-306 Input: 100-240V~, 50/60Hz, 1.8A Output: 24.0V 3.0A 72.0W
Length of light string	:	100M of the Andrew Andrew Andrew Andrew Andrew Andrew
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 ^{ek} Anborek Anborek Anborek Anborek Anborek
Modulation Type	:	GFSK And A
Antenna Type	:	PCB antenna
Antenna Gain(Peak)	:	3.98dBi
		ation are provided by customer. eatures description, please refer to the manufacturer's specifications or the

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Annotek Anboten	And hotek Anbotek	Anboi An An An An Anborek	Anboten Ante pote

1.4. Operation channel list

Operation Band:

Operation L	anu.	y do	DOI AI	h.e.	ter np	· · · · ·	the star
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Anboto	2402	10	2422	20	2442	And 30 tek	2462
Antoren	2404	1,botek	2424	21 otek	2444	31	2464
2, nboter	2406	12 12 12	2426	22	2446	32	2466
ek 3 Anbc	2408	otek 13 Anto	2428 ¹⁰⁰	23	pote ^x 2448 pri ^{bo}	33	2468
pote ^k 4 A	2410	wote 14	2430	24	2450	34	2470
nbot5	2412	15	2432	25 K	2452	Anbois	2472
Anl6tek	2414	16	2434	26	2454	36	2474
7 nbotek	2416	17 bote	2436	27	2456	3710010	2476
K 8 Anbo	2418 ¹⁰⁰¹	18	2438	28	otek 2458 Miloo	ek 38 Anbo	2478
otek 9 An	o ^{otek} 2420 ^{MNDS}	19	2440	29 Am	2460	oo ^{tek} 39 Ar	2480
-	40.	-60 P	N.	1010	000	-04	-00

1.5. Description of Test Modes

Pretest Modes	Descriptions				
Anbotek TM1 ^{Anbo}	Keep the EUT in continuously transmitting mode with GFSK modulation.				



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1.6. Measurement Uncertainty

Uncertainty
3.4dB
925Hz
0.76dB
0.76dB
1.24dB
1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
3.53dB
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	otek Anbyek Anbo	P
Conducted Emission at AC power line	Mode1	R
Occupied Bandwidth	Mode1	And Peek
Maximum Conducted Output Power	Mode1	Photek
Power Spectral Density	Mode1 Mode1	P
Emissions in non-restricted frequency bands	Mode1	P
Band edge emissions (Radiated)	Mode1	P
Emissions in frequency bands (below 1GHz)	Mode1	Anbo Pek
Emissions in frequency bands (above 1GHz)	Mode1	Anbe
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	Anbo Anbo

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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. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. 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.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. 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.
 - 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 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

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
۰ 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 of	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Avootek	Anboil
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
- Au		Ronde & Ochwarz	Lou 13	100320	2023-10-12	×2024-1

Occupied Bandwidth	hotek Anbo
Maximum Conducted	Output Power
Power Spectral Densi	ty pore And

Emissions in non-restricted frequency bands

Emis	sions in non-restricte	a frequency pands	You	1001-	P.I.	no ^{ter}
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1pm	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Aprilo	2023-10-16	2024-10-15
_e 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
,`3 [⊱]	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Ani4ote	MXA Spectrum Analysis KEYSIGHT		N9020A	MY505318 23	2024-02-22	2025-02-21
5.00	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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		Anborto	Am	Anboten	Anbotek
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek
Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06
	sions in frequency ba Equipment EMI Test Receiver EMI Preamplifier Double Ridged Horn Antenna EMI Test Software EZ-EMC Horn Antenna Spectrum Analyzer	EMI Test ReceiverRohde & SchwarzEMI PreamplifierSKET ElectronicDouble Ridged Horn AntennaSCHWARZBECKEMI Test Software EZ-EMCSHURPLEHorn AntennaA-INFOSpectrum AnalyzerRohde & Schwarz	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.EMI Test ReceiverRohde & SchwarzESR26EMI PreamplifierSKET ElectronicLNPA- 0118G-45Double Ridged Horn AntennaSCHWARZBECKBBHA 9120DEMI Test Software EZ-EMCSHURPLEN/AHorn AntennaA-INFOLB-180400- KFSpectrum AnalyzerRohde & SchwarzFSV40-NAmplifierTalent MicrowaveTLLA18G40	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.EMI Test ReceiverRohde & SchwarzESR26101481EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 002Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D02555EMI Test Software EZ-EMCSHURPLEN/AN/AHorn AntennaA-INFOLB-180400- KF8Spectrum AnalyzerRohde & SchwarzFSV40-N102150AmplifierTalent MicrowaveTLLA18G40 2302280223022802	sions in frequency bands (above 1GHz)EquipmentManufacturerModel No.Serial No.Last Cal.EMI Test ReceiverRohde & SchwarzESR261014812024-01-23EMI PreamplifierSKET ElectronicLNPA- 0118G-45SKET-PA- 0022024-01-17Double Ridged Horn AntennaSCHWARZBECKBBHA 9120D025552022-10-16EMI Test Software EZ-EMCSHURPLEN/AN/A/Horn AntennaA-INFOLB-180400- KFJ21106062

Emissions in frequency bands (below 1GHz)

- 100	biolite in inequelity be					
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	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antote	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/Anbot	ek Anbo	k Anbotek

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2. Antenna requirement

botek Anbo.	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
And k sotek	ensure that no antenna other than that furnished by the responsible party
Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
An stek anbot	of an antenna that uses a unique coupling to the intentional radiator shall be
K Anbo, K	considered sufficient to comply with the provisions of this section.

2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 3.98dBi . It complies with the standard requirement.

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AND

3. Conducted Emission at AC power line

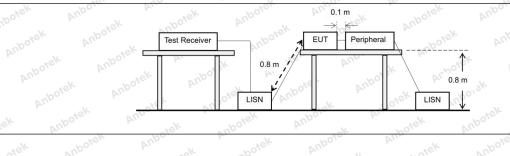
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencie at exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as				
hotek Anboten	Frequency of emission (MHz)	Conducted limit (dBµV)	And				
	Anbo An otek Anbore	Quasi-peak	Average				
Anbore An-	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5	56	46				
	5-30 mo	60	50 ten And				
	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	ANSI C63.10-2020 section 6.2					
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un						

3.1. EUT Operation

Operating Environment:	
------------------------	--

Test mode:	1: TX mode: Kee	ep the EUT i	n continu	ously trans	smitting r	node with	GFSK	
	modulation.	abotek		- p.,	otek			

3.2. Test Setup



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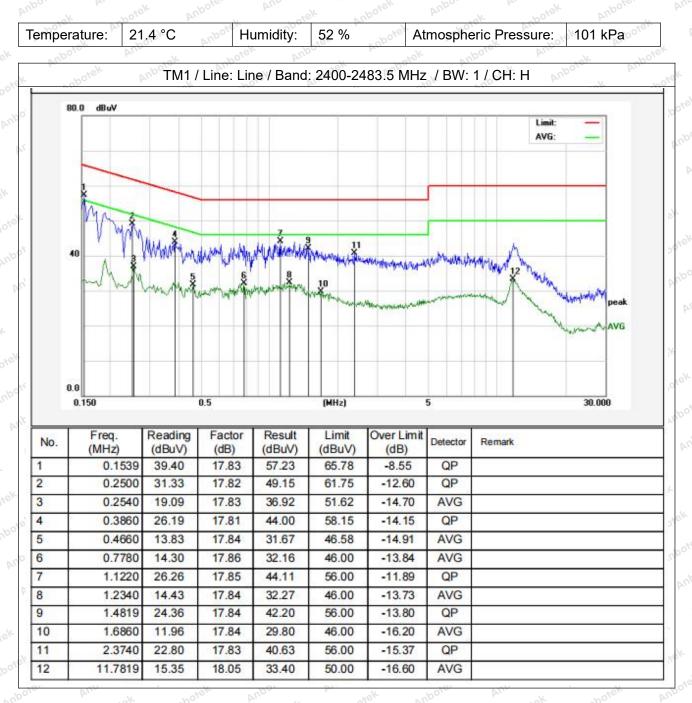
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





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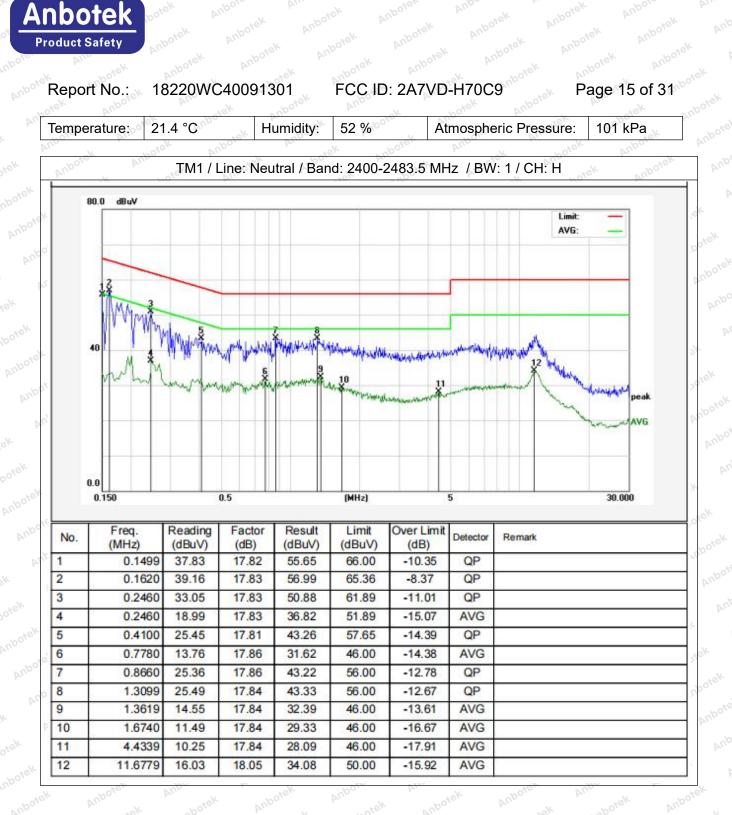
3.3. Test Data



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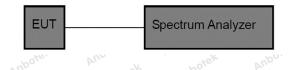
4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW].
	 c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize.
Procedure:	g) Measure the maximum width of the emission by placing 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 "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
	11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW \ge 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.
ek Anbotek Anbo	When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

4.1. EUT Operation

Operating Env	vironment:	b- stek	Anbotek	Aupo.	. et	botek	Anboren	Ano
Test mode:	1: TX mode modulation.	104	e EUT in cor	ntinuously	y transn	nitting mod	le with GFSK	Anbo
P	modulation.	And		iek ;	nbo'	b.	where the second	e. And

4.2. Test Setup



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4.3. Test Data

Temperature:	25.3° C	Humidity:	48 %	Atmospheric Pres	sure: 10	1 kPa
And		b. b.	tek abote	Ann		
Please Refer to	Appendix for De	etails.		tek nboten		

Please Refer to Appendix for Details.

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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit: Anborek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Operating Envir	ronment:	Anbotek	Anbo	h. botek	Anbore	And	20
Test mode:	1: TX mode: I modulation.	Keep the E	UT in continuo	usly transmit	tting mode w	ith GFSK	Ÿ

Aup

5.2. Test Setup

	EUT		S	pectrum Anal	yzer	
	P.U.		abotek	Anbu	v P	n anbo

5.3. Test Data

Temperature:	25.3° C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
remperature.	20.0 0	riumany.	40.70	Autospherie i ressure.	TOTIKIA

Please Refer to Appendix for Details.

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Anb

6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.1. EUT Operation

Operating Environment:

Test mode:	1: TX mode modulation	1.0' '	EUT in contin	uously transm	nitting mode w	vith GFSK
6.2. Test Set	uphibotek	Anbote.	Anbotek	Anbotek	Anbor	Anbotek

6.2. Test Setup

,o				EUT		Spectrum A	Analyzer		
2	1001- 10K	Annotek	Anbo.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	hotek	Anbote	An	abotek	Anboten

6.3. Test Data

Temperature:	25.3°C	Humidity	y: 48 %	Atmo	ospheric Press	ure: 101 kPa	10
VI	7.0.1	~0~			01.	7.0.1	.00

Please Refer to Appendix for Details.

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7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Test Anborek Anborek Anborek Anborek Anborek Anborek	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 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

100	Operating Envir	ronment:	Anboten	Anbo	4 nb0	rek Anbor	An	hotek
5.1	Test mode:	1: TX mode: modulation	Keep the E	UT in contin	uously trar	nsmitting mod	le with GF	SK

7.2. Test Setup

	Anbotek		EUT	Spectr	um Analyzer		Anborek	Anbotek	
X	Aupore							100%	
	ok botek	Anbore	Am	nboten	Ano	hotek	Anbore	An	
	Vu-					Arr			

7.3. Test Data

Temperature:	25.3°	Cupe.	Humidity:	48 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.

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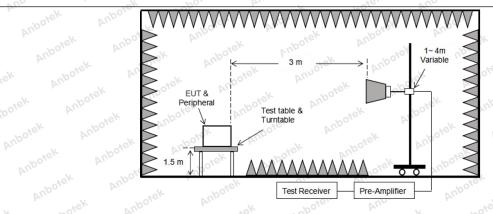
8. Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).						
tek unbotek Anbon	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
w wotek	0.009-0.490	2400/F(kHz)	300 000				
inboter And	0.490-1.705	24000/F(kHz)	30				
notek Anbote.	1.705-30.0	30 handlek hade	30 And				
And k hotek	30-88	100 **	3rek Aupore				
Anbote. Ant	88-216	150 **	3				
s sotek Anbore	216-960	200 **	3 bote And				
Test Limit:	Above 960	500	3 notek phot				
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	 ** 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average 						
botek Anboten A	detector.	or An botek Anbote	And				
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek				
Procedure:	ANSI C63.10-2020 section	6.10.5.2 And	wotek Anbotek				

8.1. EUT Operation

Operating Environment:					nboter
Test mode: 1: TX mo	ode: Keep the EU	IT in continuou	sly transmittir	ng mode with G	FSK

8.2. Test Setup



Shenzhen Anbotek Compliance Laboratory Limited

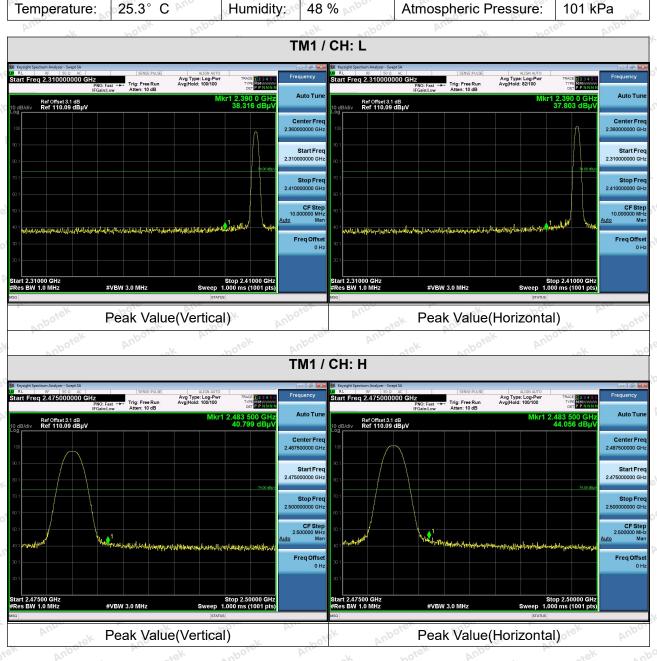
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8.3. Test Data



Remark: 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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9. Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), 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)).					
K Anbotek Anbor	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
w wotek	0.009-0.490	2400/F(kHz)	300 000			
nboren And	0.490-1.705	24000/F(kHz)	30 otek			
a. atek anbote.	1.705-30.0	30° history	30 400			
Anbo	30-88	100 **	3tek Anbore			
Anboren Anb	88-216	150 **	13 rel			
A. stek Anbore	216-960	200 **	3 boten And			
Anbo	Above 960	500 Andrew Andrew	3 notek anbr			
Test Limit: De Anborek	 ** 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements 					
tek Anbotek Anbr	90 kHz, 110–490 kHz and a	beak detector except for the freq above 1000 MHz. Radiated emised on measurements employing	sion limits in			
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		anbo. Anbo.			
Procedure:	ANSI C63.10-2020 section	6.6.4 botek Anbote An	wotek Anbotek			

9.1. EUT Operation

Operating Envir	onment:	Anbore	Allek	Anboten	Anbe	nbotek
Test mode:	1: TX mode: I modulation.	Keep the EUT	in continuous	sly transmittin	g mode with	GFSK

Shenzhen Anbotek Compliance Laboratory Limited

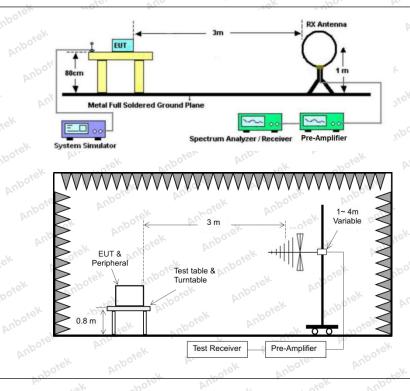
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9.2. Test Setup



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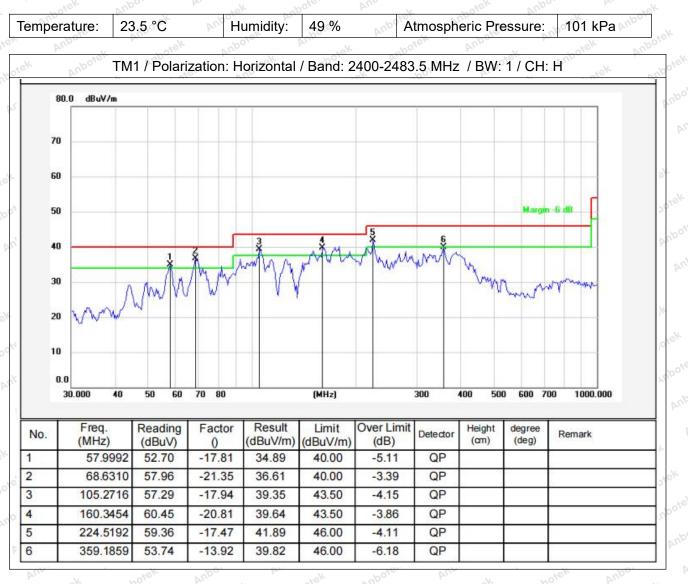




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9.3. Test Data

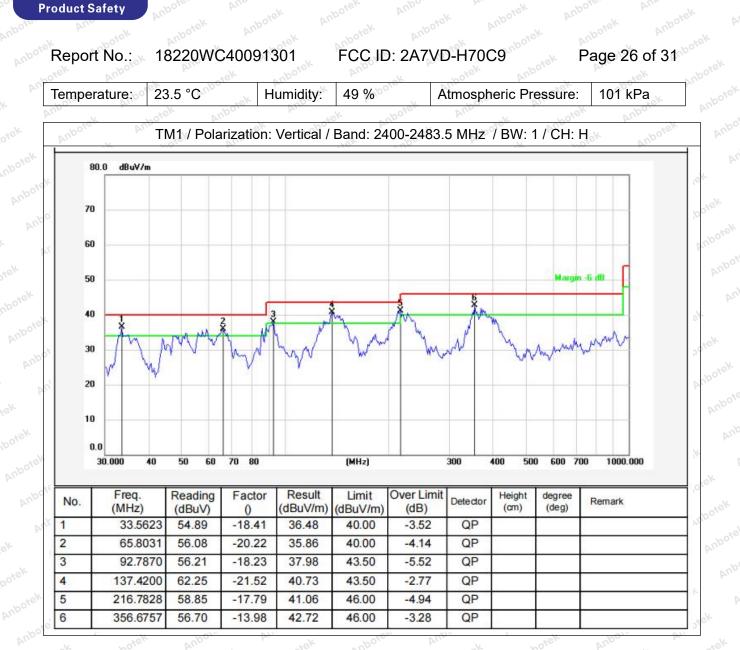
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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10. Emissions in frequency bands (above 1GHz)

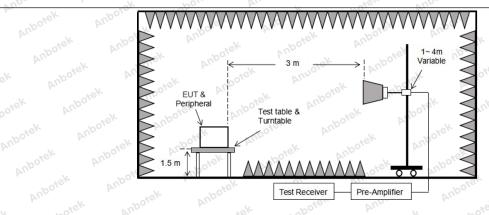
Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § $15.205(a)$, must also comply with the radiated emission limits specified in § $15.209(a)(see \ 15.205(c))$.						
tek unbotek Anbor	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
h notek	0.009-0.490	2400/F(kHz)	300 000				
nboten Anbo	0.490-1.705	24000/F(kHz)	30 Stek				
an otek unboter	1.705-30.0	30° All atek nobo	30 400				
Anbo k hotek	30-88	100 **	3tek Anbore				
anboten Anbo	88-216	150 **	13 tel				
A. stek unbote	216-960	200 **	3 boten And				
And	Above 960	500 poten Anbe	3 notek prib				
Test Limit: or house hou	 ** 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. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements 						
hotek Anbotek Anbr	90 kHz, 110–490 kHz and a	beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	sion limits in				
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anborek				
Procedure:	ANSI C63.10-2020 section	6.6.4 botek Anbote An	wotek Anbotek				

10.1. EUT Operation

 Operating Environment:

 Test mode:
 1: TX mode: Keep the EUT in continuously transmitting mode with GFSK modulation.

10.2. Test Setup



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10.3. Test Data

10.5. Test Da	ala	stek subote.	And	botek Anbo	A. otek
Temperature:	23.5 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
000	. ek		100		- NOT

TM1 / CH: L						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.31	15.27	43.58	74.00	-30.42	Vertical
7206.00	28.40	18.09	46.49	74.00	-27.51	Vertical
9608.00	29.20	23.76	52.96	74.00	-21.04	Vertical
12010.00	Anbote * Af	it siek	abotek Anb	74.00	otek Anbot	Vertical
14412.00	Anbo*ek	Anbo	botek P	74.00	stek ant	Vertical
4804.00	27.99	15.27	43.26	74.00	-30.74	Horizontal
7206.00	28.87	18.09	46.96	74.00	-27.04	Horizontal
9608.00	28.05	23.76	51.81	74.00	-22.19	Horizontal
12010.00	potek * Anbo	the bo	rek Anbote.	74.00	, nbotek	Horizontal
14412.00	botek* An	pore Arm	atek anbo	74.00	at bote	Horizontal

Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.58	15.27	31.85	54.00	-22.15	Vertical
7206.00	17.45	18.09	35.54	54.00	-18.46	Vertical
9608.00	18.67	23.76	42.43	54.00	-11.57	Vertical
12010.00	notet.	Anboten An	-sek	54.00 × 54	-k ve	Vertical
14412.00	And *	nbotek	Anbor A.	54.00	bote. And	Vertical
4804.00	16.32	15.27	31.59	54.00	-22.41	Horizontal
7206.00	17.90	18.09	35.99	54.00	-18.01	Horizontal
9608.00	17.56	23.76	41.32	54.00	-12.68	Horizontal
12010.00	stell *	otek Anbor	ak hot	54.00	And	Horizontal
14412.00	Aupor *	botek Ant	ore And	54.00 NO	ek Anbo	Horizontal
10 V	1000	11.	19.	07 F	V	In VIII

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otek Anbotek	America	obotek	Anboile	AND INICOU	Anboten A	JO 20 01 01
· · · ·		-	TM1 / CH: M		* • • • •	
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.86	15.42	43.28	74.00	-30.72	Vertical
7320.00	28.37	18.02	46.39	74.00	-27.61	Vertical
9760.00	28.70	23.80	52.50	74.00	-21.50	Vertical
12200.00	ek * abotek	Anbor	pri notek	74.00	And	Vertical
14640.00	* *	rek Anbore	Ann	74.00	Anbo	Vertical
4880.00	27.80	15.42	43.22	74.00	-30.78	Horizontal
7320.00	28.74	18.02	46.76	74.00	-27.24	Horizontal
9760.00	27.77	23.80	51.57	74.00	-22.43	Horizontal
12200.00	* tek	Anboten	Ann	74.00	Anbor A.	Horizontal
14640.00	A *	Anbotek	Anbo	74.00	Anbore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.67	15.42	32.09	54.00	-21.91	Vertical
7320.00	17.31	18.02	35.33	54.00	-18.67	Vertical
9760.00	18.52	23.80	42.32	54.00	-11.68	Vertical
12200.00	* *nbore	An	anboten	54.00	abotek	Vertical
14640.00	otek * Anbot	And	ek abotek	54.00	Annotek	Vertical
4880.00	16.43	o ^{tek} 15.42	31.85	54.00	-22.15	Horizontal

36.27

41.66

54.00

54.00

54.00

54.00

-17.73

-12.34

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7320.00

9760.00

12200.00

14640.00

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18.25

17.86

*

*

18.02

23.80

Hotline 400–003–0500 www.anbotek.com.cn



Horizontal

Horizontal

Horizontal

Horizontal

otek Anbote.				hotek		All
			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	27.99	15.58	43.57	74.00	-30.43 m	Vertical
7440.00	28.53	17.93	46.46	74.00	-27.54	Vertical
9920.00	29.40	23.83	53.23	74.00	-20.77	Vertical
12400.00	* woter	Anboter	And	74.00	Anbor	Vertical
14880.00	* And	ek nbote	Anbo	74.00	Anboret	Vertical
4960.00	oo ^{tel} 27.94 M ¹⁰	15.58	43.52	74.00	-30.48	Horizontal
7440.00	28.95	17.93	46.88	74.00	-27.12	Horizontal
9920.00	28.15	23.83	51.98	74.00	-22.02	Horizontal
12400.00	And *	abotek	Anboi	74.00	Inboten Ar	Horizontal
14880.00	Arthor	hinnotek	Anbotet	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.79	15.58	33.37	54.00	-20.63	Vertical
7440.00	18.58	17.93	36.51	54.00	-17.49	Vertical
9920.00	19.17	23.83	43.00	54.00	-11.00	Vertical M
12400.00	K * nbotek	Anbo	hotek	54.00	Ann	Vertical
14880.00	* * bot	ek Aupore	Ans	54.00	Anbo	Vertical
4960.00	17.61	15.58 m ^o	33.19	54.00	-20.81	Horizontal
7440.00	19.05 M	17.93	o ^{nex} 36.98 pr ¹⁰⁰	54.00	-17.02°°	Horizontal
9920.00	18.01	23.83	41.84	54.00 MM	-12.16	Horizontal

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Remark:

12400.00

14880.00

1. Result =Reading + Factor

*

 "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

54.00

54.00

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Horizontal

Horizontal



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

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

----- End of Report ----

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