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FCC Test Report

GUANGZHOU RANTION TECHNOLOGY CO., LTD. Applicant

Room 7002 and 7003, 7th Floor, Digital

Entertainment Industrial Park, Greater Bay Area, Address

No. 28 Huangpu Park West Road, Huangpu

District, Guangzhou, China.

Product Name : Acoustic Guitar

Report Date : Mar. 18, 2024

Shenzhen Anbotek Compliance Laboratory Limited











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TEST REPORT

Applicant : GUANGZHOU RANTION TECHNOLOGY CO., LTD

Manufacturer : GUANGZHOU RANTION TECHNOLOGY CO., LTD.

Product Name : Acoustic Guitar

Test Model No. : HUSH-I PRO

Reference Model No. : N/A

Trade Mark : DONNER

Rating(s) Input: 5V= 1A

Capacity: Lithium-ion: DC 3.7V, 2000mAh

Test Standard(s) 47 CFR Part 15.247 ANSI C63.10-2020

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:	Jan. 18, 2024
Anbore An botek Anborek Anbo	
Date of Test:	lan. 18, 2024 to Mar. 04, 2024
	- Arek Moore Andrew Andrew
ok Anbotek Anbotek Anbotek Anbotek	Illa Liang
Stek Anbotek Anbotek Anbotek Anbotek	ok hotek Anbote Anbo
Prepared By:	Aur Josek Aupo,
Aupotek Wipotek Wipotek Wipotek	(Ella Liang)
	Anbotek Anbotek Anbotek
	Idward pan
Approved & Authorized Signer:	Ditte Auport Auport
	(Edward Pan)







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Revision History

Report Version		Description	Issued Date		
	Anbore R00 potek An	Original Issue.	Mar. 18, 2024		
	k Anborek Anborek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb		
	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anbotek		





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1. General Information

1.1. Client Information

VUD	" No. In the Management of the Month
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.
Address	Room 7002 and 7003, 7th Floor, Digital Entertainment Industrial Park, : Greater Bay Area, No. 28 Huangpu Park West Road, Huangpu District, Guangzhou, China.
Factory 1	: Jiangmen Duole Technology Co., Ltd.
Address 1	Building 9, No. 52, Baotang Road, Tangxia Town, Pengjiang District, Jiangmen City, China
Factory 2	Guangdong Shengkai Musical Instruments Co.Ltd.
Address 2	Sankerong, Chengzhong District, Sihui City, Guangdong Province, China.

1.2. Description of Device (EUT)

	and Marie	- NO
Product Name	:	Acoustic Guitar
Test Model No.	:	HUSH-I PRO (Note: The product is available in two different colors.)
Reference Model No.	:	N/Ak Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	DONNER 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	:	J.N/A Anbotek Anbotek Anbotek Anbotek An
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anborek Anborek Anborek Anborek Anborek Anborek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	0.67dBi Anbotek Anbotek Anbotek
D -10/2 11 0/00		N 1000 All

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.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	

1.4. Operation channel list

Operation Band:

Operation b	1019 AU		-10K	100. K.	- 2/4	- NO30 - 1	100
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Ootek	2402	20 tek	2422	40	2442	60	2462
1 botek	2403	21	2423	41	2443	61.00°	2463
ek 2 300	2404	22	2424	42 Anbox	2444	tek 62 Anbo	2464
3	2405 And	23	2425	otek 43 An	2445	, botel 63 A	2465
4	2406	24	2426	Anbot 44	2446	64	2466
5 tek	2407	25	2427	45	2447	65	2467
And otek	2408	26	2428	46	2448	66	2468
7	2409	27. ^{nboto}	2429	47 _{Anborr}	2449	ek 67 _{Mab} o	2469
8 Anb	2410	28 Anb	2430	otek 48 Ant	2450	68 N	2470
9 An	2411	29	2431	49	2451	69	2471
Anbora 10	2412	30	2432	50	2452	70	2472
Angota	2413	31	2433	510tek	2453	71 botek	2473
12	2414	32	2434	52 _{mb} ote	2454	72	2474
13Anbor	2415	ek 33 Anbo	2435	tek 53 anb	2455 Andrew	73	2475
otek 14 Anl	2416	ote ^k 34	2436	54	2456	74	2476
nb ^{otek} 15	2417	35	2437	55	2457	75 _k	2477
An 16	2418	36	2438	56	2458	AN 76	2478
17° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10	2419	37,010k	2439	57 50 tel	2459	77	2479
18,000te	2420	38 ,,,,,,,	2440	58	2460	78 ^{Anbu}	2480
tek 19 Anb	2421	39	o ^{tek} 2441 M	59	2461	over - Aut	Jek-



Hotline



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1.5. Description of Test Modes

Pretest Modes	Descriptions				
Anborek TM1 bores An	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.				
TM2 Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.				
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.				
Anbores TM4.ek Anbore	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.				
Anborek TM5 porek Ank	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.				
Anborek TM6 Anboren	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.				

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz rek Anbotek Anbotek
Conducted Output Power	0.76dB
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.







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1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	W. Volek / Wupoter	Ant Potek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P PART
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	inpo. Pr
Number of Hopping Frequencies	Mode4,5,6	Anb P rek
Dwell Time	Mode4,5,6	P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	PARTE
Band edge emissions (Radiated)	Mode1,2,3	P AT
Emissions in frequency bands (below 1GHz)	Mode1,2,3	nbote P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbore P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbot





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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

- 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

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	tek /Anbotek	ek apotek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Ite	m	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
i ek	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
20012	2⊱	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
AUR	30 ^{tel}	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4	1 .nb ⁶	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
5	5 P	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	3	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

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	edge emissions (Ra sions in frequency ba		Aupotek	Anborek	Aupotek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
¹⁶ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	Emissions in frequency bands (below 1GHz)						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11	
. 2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11	
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	
Anistel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11	
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A No	y Aupo	k Anbotek	



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2. Antenna requirement

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 PCB antenna which permanently attached, and the best case gain of the antenna is 0.67dBi. It complies with the standard requirement.





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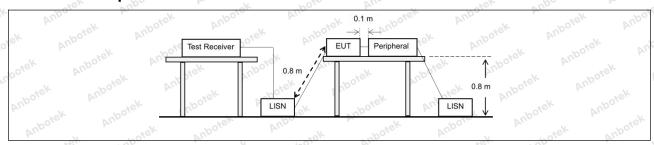
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Exce section, for an intentional radiator public utility (AC) power line, the back onto the AC power line on a band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	r that is designed to be con radio frequency voltage tha any frequency or frequencie ot exceed the limits in the f	nnected to the at is conducted es, within the following table, as	
-hotel Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)		
Yun Potek	Anbor Anbor	Quasi-peak	Average	
Anbore Air	0.15-0.5	66 to 56*	56 to 46*	
Test Limit:	0.5-5 tek nibote Am	56, botek Ar	46	
Vun 190	5-30 And 5	60	50 And	
k Aupore K	*Decreases with the logarithm of	the frequency.	Pir. Polek Wup.	
Test Method:	ANSI C63.10-2020 section 6.2	hotek Anbotes	And	
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from ur			

3.1. EUT Operation

Operating Envi	ronment:	Aupo, ok	Pr. Potek	Aupote,	And	nboiek	Anborr
Test mode:	hopping) w 2: TX-π/4-I (non-hoppi 3: TX-8DP	rith GFSK ma DQPSK (Nor ng) with π/4	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously tran T in continuousl continuously tra	ly transmitting	g mode

3.2. Test Setup





Hotline

www.anbotek.com.cn

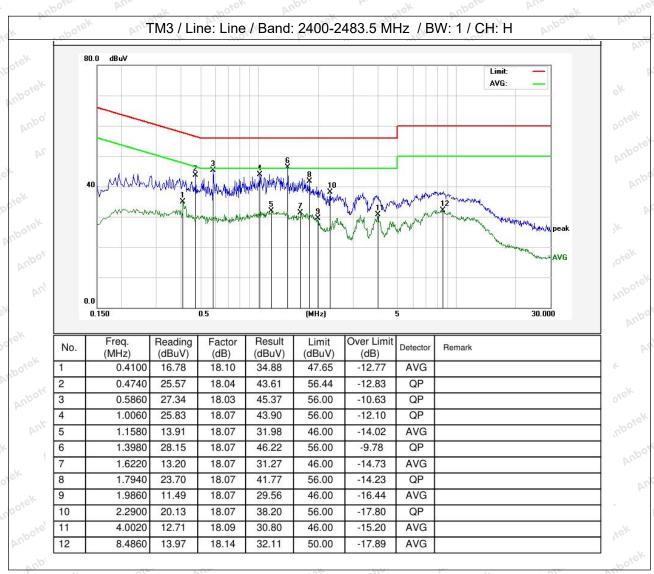
400-003-0500



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3.3. Test Data

Temperature: 20.5 °C	Humidity: 39 %	Atmospheric Pressure: 101 kPa
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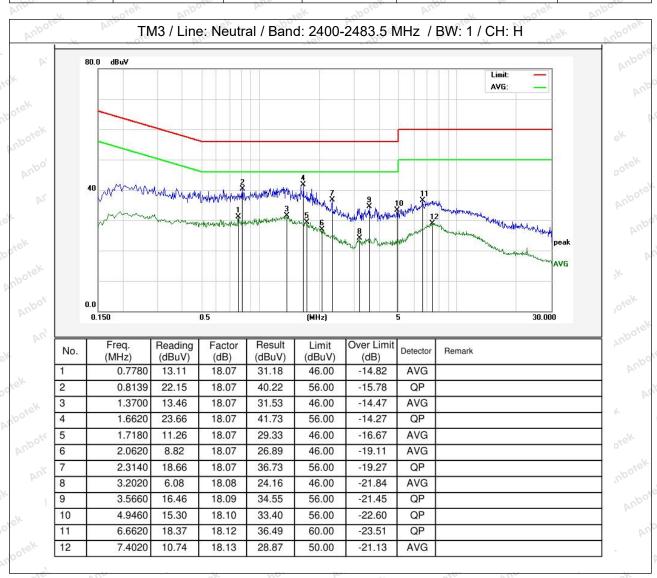






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Temperature: 20.5 °C Humidity: 39 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
rest requirement.	
abotek Anbo.	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
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
rest Limit.	may otherwise be specified in the specific rule section under which the
	equipment operates, is contained within the frequency band designated in
upotek Aupo,	the rule section under which the equipment is operated.
To Selvetto al Anboren	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbo	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
Sorek Anbore	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
otek Aupa	(OBW/RBW)] below the reference level. Specific guidance is given in
	4.1.6.2.
Dragadura, wotek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	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
	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
	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).
	1 20







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4.1. EUT Operation

Operating Environment:

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

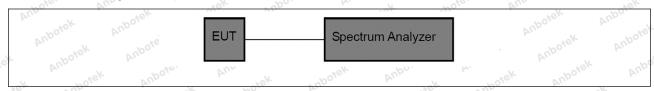
hopping) with GFSK modulation.

Test mode: 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode

(non-hopping) with π/4 DQPSK modulation.
3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-

hopping) with 8DPSK modulation.

4.2. Test Setup



4.3. Test Data

Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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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
Anbotek	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. 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:	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.i) The indicated level is the peak output power, after any corrections for
	external attenuators and cables. j) A spectral 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.

5.1. EUT Operation

70	Operating Envi	nment: Anborek Anborek Anborek Anborek Anborek Anborek	.
7	Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non hopping) with GFSK modulation. 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mod (non-hopping) with π /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.	otek de mbote

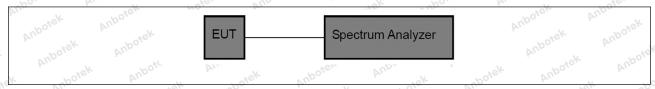






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5.2. Test Setup



5.3. Test Data

10	Taustin a na fi ina i 🎊	25.4 °C	11	40.0000	Atus a sub suis Dussalvus	404 LD=
	Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa





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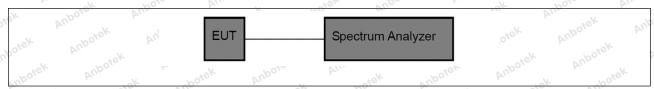
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1), 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:	ANSI C63.10-2020, section 7.8.2
Anborek	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: 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.

6.1. EUT Operation

Operating Envi	ronment:	Anbe	apoiek	Aupor	Ar. hotek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4 DQP 6: TX-8DPSK (Hopping with 8DPSK modulation	ping): Keep the SK modulation.): Keep the EUT	EUT in cont	inuously trar	smitting mode	ek K

6.2. Test Setup



6.3. Test Data

Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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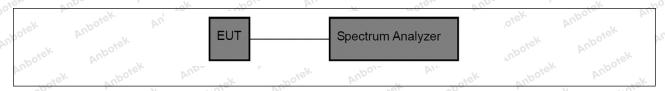
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	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
Anborek	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. 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 Envi	ronment: Anbores Anbores Anbores Anbores Anbores
Test mode:	 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

7.2. Test Setup



7.3. Test Data

Temperature: 25	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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8. Dwell Time

O. Dweil Mille	Lanbotek Anbo Anbotek Anbotek Anbotek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	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 7.8.4
ek Anbotek Anbotek Anbotek	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.
	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.
otek 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 dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop:
	 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 transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the last transmissi
	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.
	 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. e) Detector function: Peak. f) Trace: Clear-write, single sweep.
Anbotek Anbo	g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between









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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

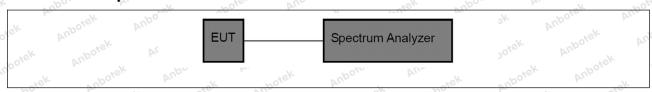
Operating Environment:

4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

Test mode:

- 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

Temperature:	25.4 °C	Humidity:	48 %	Vupo.	Atmospheric Pressure:	101 kPa	206
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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek 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 7.8.7
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
tek Anbotek Ansotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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 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.
ek upotek Anbo	The limit is based on the highest in-band level across all channels measured
Procedure:	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
Anbotek Anbor	measurements a separate spectral plot showing the in-band level shall be provided.
Anbotek	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 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 exception that the resolution bandwidth shall be 100 kHz, video bandwidth









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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.

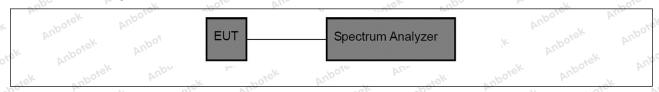
9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..
- 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup

Test mode:



9.3. Test Data

Temperature	: 25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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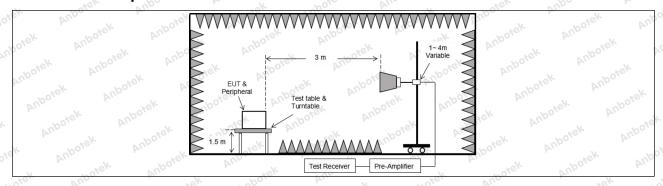
10. Band edge emissions (Radiated)

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	ly with the
otek Aupotek Aupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
, work	0.009-0.490	2400/F(kHz)	300 mboto
upotek And	0.490-1.705	24000/F(kHz)	30
v. Otek Aupote.	1.705-30.0	30	30
Anbo k hotek	30-88	100 **	3,ek Anbore
anboten Anb	88-216	150 **	3
A. Otek Anbote	216-960	200 **	3botes And
Anbo	Above 960	500 Andrew	3 yek and
Test Limit: otek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not be z, 76-88 MHz, 174-216 MHz or whese frequency bands is permitting 15.231 and 15.241. The tighter limit applies at the bein the above table are based on beak detector except for the frequency 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other pand edges. measurements uency bands 9— esion limits in
Test Method:	ANSI C63.10-2020 section	6.10ek Anbourek Abort	sk Aupore
Procedure:	ANSI C63.10-2020 section	6.10.5.2	otek Anbotek

10.1. EUT Operation

Operating Envi	ronment: Anborek Anborek Anborek Anborek Anborek Anborek
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

10.2. Test Setup







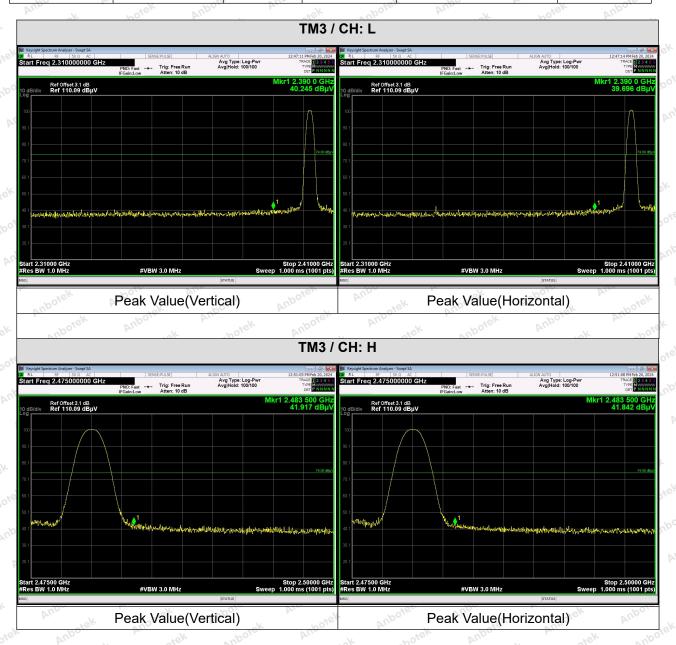




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10.3. Test Data

Temperature: 25.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:

- 1. Only record the worst data in the report.
- 2. 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)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.2	ly with the
otek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
otek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
hotek Anbotek	1.705-30.0	30° kek nbo	30
Vupotek Vupotek	30-88 88-216	100 ** 150 **	3
Anbotek Anbote	216-960 Above 960	200 ** 500	3 sek
Test Limit: Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. In the tighter limit applies at the bin the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9—sion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4 And	SK Wipole
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	otek Anboten

11.1. EUT Operation

	Operating Envir	onment:					Aupotek	Anbo
20,0	Test mode:	hopping) with 2: TX-π/4-DC (non-hopping	n GFSK modu QPSK (Non-H g) with π/4 DC ((Non-Hoppi	ulation. lopping): Keep QPSK modula ng): Keep the	the EUT ir	nuously transn n continuously itinuously trans	transmitting	mode

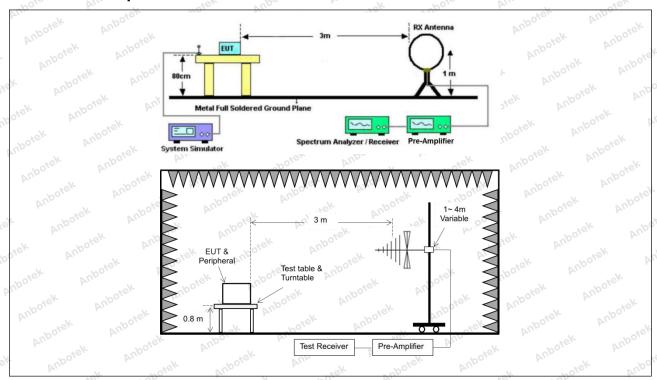






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11.2. Test Setup





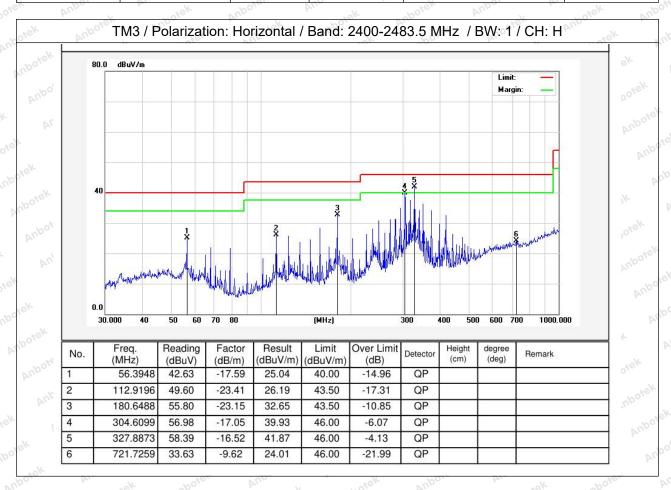


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11.3. Test Data

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

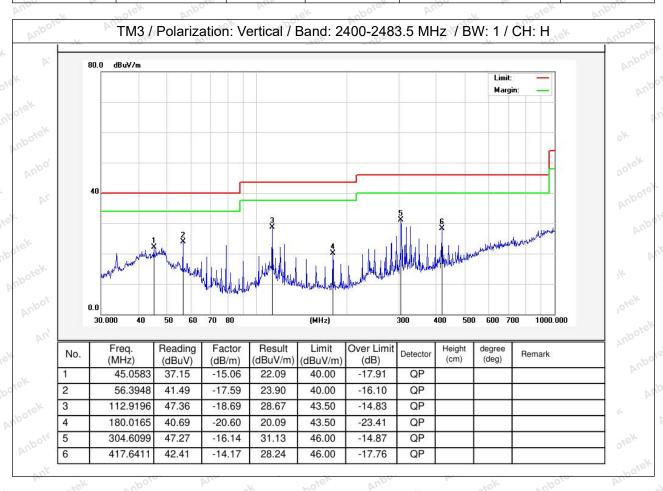
Temperature:	25.4 °C	DUP,	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Temperature: 25.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.



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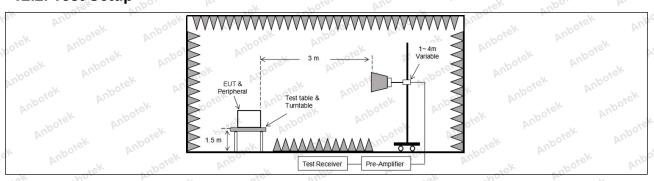
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted be omply with the radiated emission $\overline{b}(c)$.	
k Aupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
inpoter Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
Anbo	30-88	100 **	3 ek Anbore
	88-216	150 **	3
	216-960	200 **	3 pore. And
	Above 960	500 More Andre	3 rek
	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above	e, the tighter limit applies at the b	470-806 MHz. ed under other
	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emised and on measurements employing	uency bands 9– sion limits in
Test Method:	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	uency bands 9– sion limits in

12.1. EUT Operation

Operating Envi	ronment:			Anbois	Ann	Anbotek	Anbo
Test mode:	hopping) with 2: TX-π/4-D0 (non-hopping	h GFSK mod QPSK (Non-I g) with π/4 D K (Non-Hopp	lulation. Hopping): Kee QPSK modula ing): Keep the	p the EUT i	inuously transmonthing transmonthing in continuously intinuously transmonthing in the continuously transmonthinuously transmont	transmitting	mode

12.2. Test Setup









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12.3. Test Data

Temperature: 25.4 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
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·	Po. Di.		TM3 / CH: L	*	- h _{0,1}			
Peak value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4804.00	28.34	15.27	43.61	74.00	-30.39	Vertical		
7206.00	29.30	18.09	47.39	74.00	-26.61	Vertical		
9608.00	30.53	23.76	54.29	74.00	-19.71	Vertical		
12010.00	Aupole * Al	iek.	abotek Anb	74.00	otek Anbote	Vertical		
14412.00	"Upo#sk	Aupo, ok	hotek p	74.00	rick on	Vertical		
4804.00	28.62	15.27	43.89	74.00	-30.11	Horizontal		
7206.00	29.91	18.09	48.00	74.00	-26.00	Horizontal		
9608.00	28.74	23.76	52.50	74.00	-21.50	Horizontal		
12010.00	otek * Aupo	- K 20	ick Vupose,	74.00	hotek	Horizontal		
14412.00	woick*	DOJOS ALID	sek spc	74.00	L bore	Horizontal		
Average value:								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
4804.00	17.72	15.27	32.99	54.00	-21.01	Vertical		
7206.00	18.33	18.09	36.42	54.00	-17.58	Vertical		
9608.00	19.55	23.76	43.31	54.00	-10.69	Vertical		
12010.00	A CHARLES	Tupo _{ter} Vu	101	54.00	N Pro	Vertical		
14412.00	Ann * ek	abotek	Aupor K	54.00	Ipoles Aug	Vertical		
4804.00	16.97	15.27	32.24	54.00	-21.76	Horizontal		
7206.00	18.97	18.09	37.06	54.00	-16.94	Horizontal		
9608.00	18.05	23.76	41.81	54.00	-12.19	Horizontal		
12010.00	*** *	oiek Anbot	K PU.	54.00	Aug.	Horizontal		
14412.00	upor * Pur	stek ont	oter Pupo	54.00	ek Auport	Horizontal		





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TM3 / CH: M										
Peak value:										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization				
4882.00	28.36	15.42	43.78	74.00	-30.22	Vertical				
7323.00	29.15	18.02	47.17	74.00	-26.83	Vertical				
9764.00	29.54	23.80	53.34	74.00	-20.66	Vertical				
12205.00	ek * spotek	Anborr	b. "otek	74.00	Ans	Vertical				
14646.00	*	tek Wipose	Pur Pie	74.00	Aupo	Vertical				
4882.00	28.32	15.42	43.74	74.00	-30.26	Horizontal				
7323.00	29.90	18.02	47.92	74.00	-26.08	Horizontal				
9764.00	28.44	23.80	52.24	74.00	-21.76	Horizontal				
12205.00	*otek	Aupole.	Aug	74.00	YUpor by	Horizontal				
14646.00	Art rek	nbotek	Anbo	74.00	Aupoter	Horizontal				
Average value:										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization				
4882.00	17.45	15.42	32.87	54.00	-21.13	Vertical °				
7323.00	18.43	18.02	36.45	54.00	-17.55	Vertical				
9764.00	19.41	23.80	43.21	54.00	-10.79	Vertical				
12205.00	k *upor	N. Siek	anbotek	54.00	borek	Vertical				
14646.00	otek * Anbot	Anb	ek abotek	54.00	bu. Poick	Vertical				
4882.00	16.88	15.42	32.30	54.00	-21.70	Horizontal				
7323.00	18.53	18.02 A	36.55	54.00	-17.45	Horizontal				
9764.00	18.56	23.80	42.36	54.00	-11.64 M	Horizontal				
12205.00	Anb*otek	Aup	abořek	54.00	"Otek Di	Horizontal				
14646.00	* "otek	VUPO.	Y. rek	54.00	AUD	Horizontal				





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			TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.63	15.58	44.21	74.00	-29.79	Vertical
7440.00	29.16	17.93	47.09	74.00	-26.91	Vertical
9920.00	30.09	23.83	53.92	74.00	-20.08	Vertical
12400.00	* otek	anboyer	Anb	74.00	Anboi	Vertical
14880.00	* And	iek "potel	, Vupo,	74.00	Aupote	Vertical
4960.00	28.39	15.58	43.97	74.00	-30.03	Horizontal
7440.00	29.93	17.93	47.86	74.00	-26.14	Horizontal
9920.00	29.12	23.83	52.95	74.00	-21.05	Horizontal
12400.00	Vup.*	abotek	Aupor b	74.00	rupoter Vul	Horizontal
14880.00	AC#DOLL	hotek	Aupoien	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	18.57	15.58	34.15	54.00	-19.85	Vertical
7440.00	19.44	17.93	37.37	54.00	16.63 And	Vertical
9920.00	19.96	23.83	43.79	54.00	-10.21	Vertical
12400.00	* Sporek	Aupo	hotek	54.00	Vung.	Vertical
14880.00	* * *	k Aupolo.	And	54.00	Vupo.	Vertical
4960.00	18.32	15.58 No ⁰	33.90	54.00	-20.10	Horizontal
7440.00	19.90 And	17.93	37.83 M	54.00	-16.17	Horizonta
9920.00	18.46	23.83	42.29	54.00	-11.71	Horizonta
12400.00	* tek	Anbores	Aur	54.00	po, bu	Horizonta
14880 00	An*	bolek	Anbe.	54 00	Vupotes V	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.
- 3. Only the worst case is recorded in the report.







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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 -----

