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FCC Test Report

Applicant : Shenzhen Bolong Technology Co., Ltd.

Youth Pioneer Park, Jianshe East Road,

Address : Longhua Street, Longhua District, shenzhen,

China

Product Name : Spaceman Music Star Light

Report Date : Sept. 23, 2023

Shenzhen Anbotek Cempilar



ce/Laboratory Limited







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TEST REPORT

Applicant : Shenzhen Bolong Technology Co., Ltd.

Manufacturer : Shenzhen Bolong Technology Co., Ltd.

Product Name : Spaceman Music Star Light

Test Model No. : BL-HJ07

Reference Model No. : N/A

Trade Mark : N/A

Rating(s) : Input: 5V= 2A

Test Standard(s) : 47 CFR Part 15.247

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:	Sept. 12, 2023	
Date of Test:	Sept. 12, 2023 to Sept. 21, 2023	
Anbotek Anbotek Anbotek Anbotek Anbotel	Tu Tu Hong	
Prepared By:	abotek Anbore Ant Ortek Anb	otek An
poter Anbotek Anbotek Anbote	(TuTu Hong)	
Anbotek Anbotek Anbotek	hotek Anbotek And	
	Idward pan	
Approved & Authorized Signer:	Auguster Auguster Auguster	. both
	(Edward Pan)	





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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Sept. 23, 2023
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1. General Information

1.1. Client Information

Applicant		Shenzhen Bolong Technology Co., Ltd.
Address	:	Youth Pioneer Park, Jianshe East Road, Longhua Street, Longhua District, shenzhen, China
Manufacturer		Shenzhen Bolong Technology Co., Ltd.
Address	:	Youth Pioneer Park, Jianshe East Road, Longhua Street, Longhua District, shenzhen, China
Factory	:	Shenzhen Bolong Technology Co., Ltd.
Address	:	Youth Pioneer Park, Jianshe East Road, Longhua Street, Longhua District, shenzhen, China

1.2. Description of Device (EUT)

Duadout Name		Dores Ambout All Lindson Moore All Lake Abores A
Product Name	·	Spaceman Music Star Light
Test Model No.	:	BL-HJ07
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbote Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB antenna
Antenna Gain(Peak)	:	-0.58dBik Anborek Anborek Anborek Anborek
Domarks 50		And the steel and the steel And

- (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	





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1.4. Operation channel list

hoge.							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
P.O. O. Sep	2402	20	2422	40 borek	2442	60	2462
· 1 _{Anbote}	2403	× 21 00°	2423	41	2443 hote	61	2463
tek 2 Anb	2404	22	otek 2424 Mbo	42	2444	62 And	2464
New 3	2405	23	2425	43	2445	63	2465
4	2406	^{nb0} 24	2426	Arrbo144	2446	64	2466
Anbot 5	2407	25	2427	45	2447	65	2467
A 6	2408	26	2428	46	2448	66	2468
Zupore.	2409	27, noote	2429	47 bot	2449	67	2469
iek 8 Aupo	2410	, 28 , no	2430	48	ote* 2450 Anb	68	2470
notek 9	2411 And	29	2431	49	2451	⁶⁹	2471
10	2412	30	2432	Anbotto	2452	70 no	2472
And 11,ek	2413	Anba 31	2433	51	2453	7.1	2473
12	2414	32	2434	52°	2454	72	2474
13	2415	33 ^{1/2016}	2435	× 53, nbot	2455	73	2475 botto
14 Anbo	2416	rek 34 Anb	2436	sex 54 m	2456 Maria	74	2476 And
otek 15 An	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	Anbot 76	2478
1704	2419	And 37, 64	2439	Anbore	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59 nbote	2461	ek - Mbot	- Anbor

1.5. Description of Test Modes

Pretest Modes	Descriptions
And Andrew Andrew	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Anborek TM2 morek	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anbotek TM5 tek Anbo	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anborek TM6, borek Ar	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.





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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz housek Anborek Anborek
Conducted Output Power	ne 0.76dB And
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)	3.53dBhoot Anborek Anborek
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

ye.	000
abor / All	P ,
Mode1,2,3	P ^{Anb}
Mode1,2,3	P
Mode1,2,3	nbott Pk
Mode4,5,6	Anbor P
Mode4,5,6	A P
Mode4,5,6	Panbo
Mode1,2,3,4,5,6	PAR
Mode1,2,3	P P
Mode1,2,3	Anboye
Mode1,2,3	MP
	Mode1,2,3 Mode4,5,6 Mode4,5,6 Mode4,5,6 Mode4,5,6 Mode1,2,3,4,5,6 Mode1,2,3 Mode1,2,3

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.:184111

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. 184111.

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.518128

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

Cond	ucted Emission at A	C power line	Anba	k aborel	Anbore	Ar.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
2 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	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1 MXG RF Vector Signal Generator		Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12	
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25	
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21	
4 4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22	
5	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18	

	edge emissions (Ra sions in frequency ba		Anborek	Anbotek	Anborek A	Aupotek Pupe
Item	Equipment	Manufacturer Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Anbo.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
ote4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupotek b	Nos Ar
unb5tek	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
16 ¹⁰⁰	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 AC	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24





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Emis	sions in frequency ba	ands (below 1GHz)	Anbore	Vun Potek	Anborek	Vupo, Vek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N Pno	186860	2022-10-23	2023-10-22
_{te} \3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
nb4ek	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupoter	Andorek





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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 **-0.58dBi**. It complies with the standard requirement.





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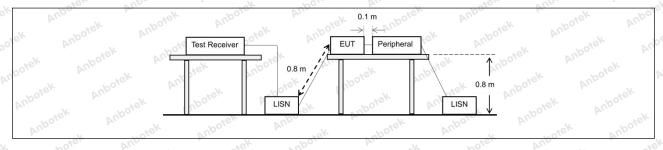
3. Conducted Emission at AC power line

- av	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	S. Van	-K NO.	
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).	that is designed to be cor radio frequency voltage tha ny frequency or frequencient of exceed the limits in the f	nnected to the at is conducted es, within the following table, as	
boick Anbore	Frequency of emission (MHz)	Conducted limit (dBµV)		
Tur apolek	Anbo k Anbote	Quasi-peak	Average	
Auport All	0.15-0.5	66 to 56*	56 to 46*	
Test Limit:	0.5-5 AND	56 NOTE AT	46	
And above	5-30 And	60	50 ten And	
k Aupor K Air	*Decreases with the logarithm of	the frequency.	bi.	
Test Method:	ANSI C63.10-2020 section 6.2	Anboiek Anboies	Ann	
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un			

3.1. EUT Operation

Operating Envir	ronment:	Aupo.	hotek	Vupose.	Andarak	nboick	Vupo.
Test mode:	hopping) w 2: TX-π/4-[(non-hopping) 3: TX-8DPS	ith GFSK modules $^{\circ}$ OQPSK (Norng) with $\pi/4$	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously trans T in continuousl continuously trai	y transmitting	g mode

3.2. Test Setup





Hotline

www.anbotek.com.cn

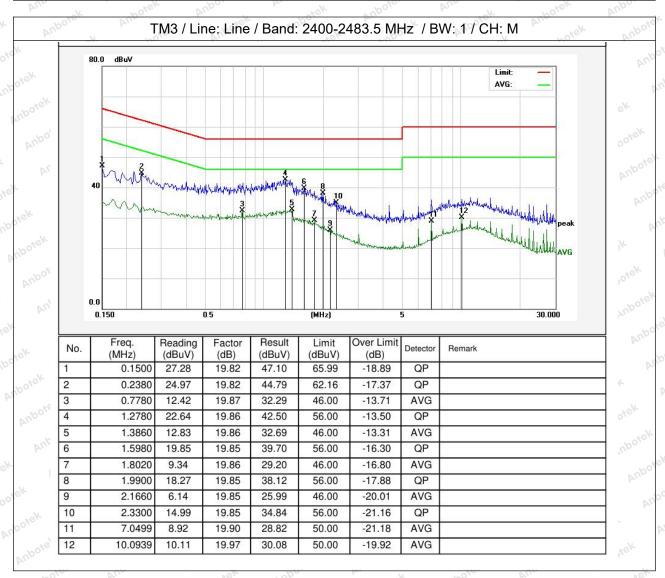
400-003-0500



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3.3. Test Data

Temperature: 24.2 °C Humidity: 65 % Atmospheric Pressure: 96 kPa



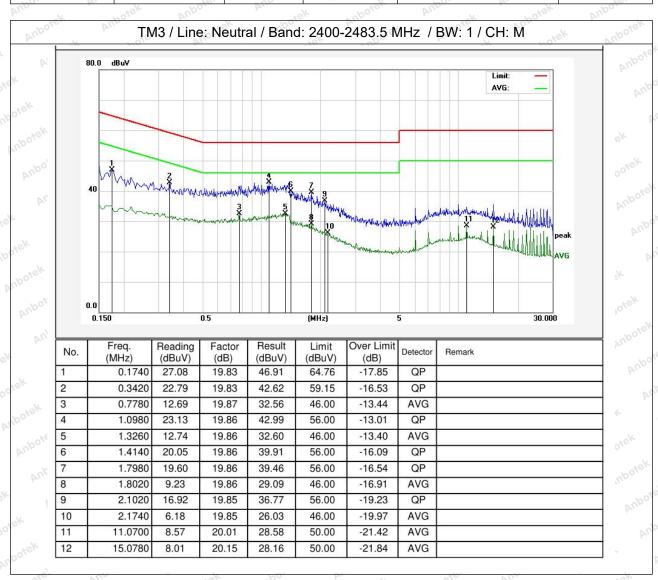






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Temperature: 24.2 °C Humidity: 65 % Atmospheric Pressure: 96 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	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.
Test 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
nbotek Anbotek Anbotek Anbotek 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
Procedure:	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.
Anbotek Anbotek Anbo	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).

4.1. EUT Operation

Operating Envir	onment:	Ans	Anborek	Aupo.	abotek	Anbore.	Ans
Test mode:	1: TX-GFSK	(Non-Hoppir	ng): Keep the	EUT in contir	nuously trans	mitting mode	(non-







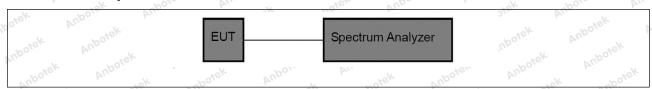
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hopping) with GFSK modulation.

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.

4.2. Test Setup



4.3. Test Data

Temperature:	25.4 °C	Humidity:	48.1 %	Atmospheric Pressure:	101 kPa
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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anborek	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
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. f) Trace: Max-hold.
Anbotek	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

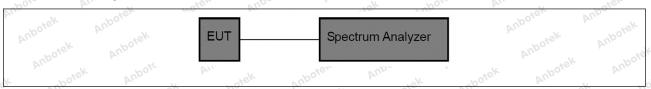
Operating Envi	ronment:	Anbore	Pur Polek	Anborek	Aup	abotek
Test mode:	1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (No hopping) with 8D	SK modulation K (Non-Hoppir th π/4 DQPSK on-Hopping): k	n. ng): Keep the E modulation. Keep the EUT in	UT in contin	uously transm	itting mode





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5.2. Test Setup



5.3. Test Data

10	Tanàn araturas	25.4 °C	Llumpidite	40.4.0/	Atmoonbaria Drassura	404 kDa	1
	Temperature:	25.4 6	Humidity:	48.1 %	Atmospheric Pressure:	101 kPa	l





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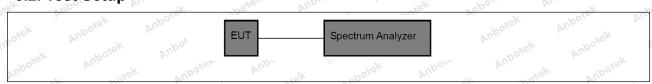
6. Channel Separation

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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
Procedure:	e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Potek Pupotek	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: Anbore Anbore Anbore Anborek Anborek
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.

6.2. Test Setup



6.3. Test Data

Temperature: 25	.4 °C Hum	idity: 48.1 %	Atmospheric Pressure:	101 kPa
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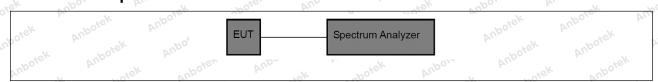
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	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 Anbotek Anbotek Anbotek Anbotek Anbotek 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.
Procedure:	c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
Anbotek Anbotek	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: Anbotek Anbotek Anbotek Anbotek Anbotek
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:	25.4 °C	Humidity:	48.1 %	Atmospheric Pressure: 101 kPa
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8. Dwell Time

Anbor Air	poier	And	- crek	Suporc	Di.	Yes	poler
Test Requirement:	47 CFR 15.	247(a)(1)(iii) And	ek noo	tek Ant	0,0	VII.
Test Limit:	2483.5 MHz occupancy period of 0. employed.	z band shall on any char 4 seconds n Frequency h ns on a part	7(a)(1)(iii), Fouse at least anel shall not nultiplied by acopping syste icular hoppin	15 channel be greater the number ems may av	s. The aver than 0.4 se of hopping oid or supp	age time econds wi channels ress	of thin a
Test Method:		0-2020, sed 4 D01 15.24	ction 7.8.4 17 Meas Gui	dance v05r0	oz _{iek} Anb	upotek	Aupotek Br.
	transmissio a single tra transmissio	n to the end nsmission ponder. If the dev s measured	on a channe of the last to er hop then to ice has a mu from the sta	ansmission he dwell tim Iltiple transr	for that hop ne is the du nissions pe	p. If the deriversity of the reader the read	evice has hat n the
	over an obs determine t measure bo	servation per he time of o oth the dwell	is the total ti riod specified ccupancy the time per ho channel in a	d in the regue e spectrum p and the nu	ılatory requ analyzer wi umber of tin	irement. ⁻ Il be conf	To igured to
Procedure:	requirement number of of the number based on the dwell times for 1, 3 or 5	ts shall be no channels end of channels ne minimum per channe time slots)	hopping fundade with the abled. If the than comple number of complete Buttern measures and then measures and then measures and the summer of t	e minimum a dwell time p iance with th hannels. If t luetooth dev ements can	and with the per channel ne requirem he device s vices can d be limited	e maximu does not nents may supports o well on a	m vary with be different channel
otek Anbotek A	Use the foll hop:	owing spect	rum analyze	r settings to	determine	the dwell	time per
	a) Span: Ze b) RBW sha	all be ≤ char	ntered on a land	and where	possible RE		Anboren d benborel
	c) Sweep ti last transm	me: Set so t ssion for the	hat the start hop are cle	of the first to arly capture	ransmissior ed. Setting t	n and end the sweep	time to
	1/hopping r d) Use a vid the transmi	ate) should deo trigger, v ssion is clea	he hopping achieve this where possib rly observed	ole with a trig I. The trigge	gger delay, r level migh	so that th	ie start of djustment
	channel. e) Detector f) Trace: Cl	function: Pe ear-write, sir		ootek Ar	anbotek (Anbotek Anbotek	









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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:

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

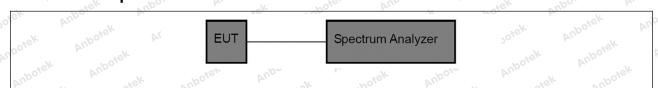
with GFSK modulation,

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:	48.1 %	Atmospheric Pressure:	101 kPa
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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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
Anbores And	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
tek Aupore An	the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter
Test Limit:	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
	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 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.
	tek abotek Anbot K totek Anbote An
Procedure:	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
Anborek Anbore	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
	provided. Anborek Anborek Anborek Anborek
	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 the resolution and video bandwidth settings and peak detector as
	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)
Anbotek Anbo	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.

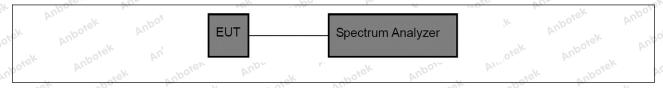
9.1. EUT Operation

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: 48.1 % Atmospheric Pressure: 101 kPa	
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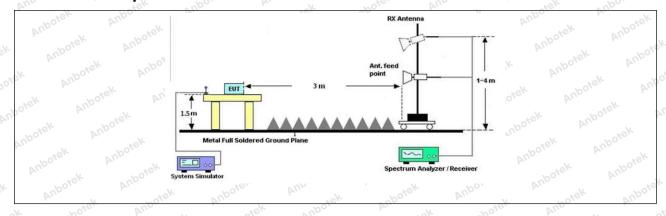
10. Band edge emissions (Radiated)

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
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
D. W. Stek	0.009-0.490	2400/F(kHz)	300 000
abotek Anbo	0.490-1.705	24000/F(kHz)	30 Stell
All aborem	1.705-30.0	30	30
Aupo, W. Siek	30-88	100 **	3,ek note
_ wotek Anbo	88-216	150 **	3 , (8)
Test Limit:	216-960	200 **	3 botes And
Aupo, Ai	Above 960	500 horek Anbo	3 rek no
abotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N		Anbores Anbo
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Vur.

10.1. EUT Operation

Operating Envir	ronment:	Vupo,e.	Aug Potek	Anborek	Aupo.	"Upolek
Test mode:	1: TX-GFSK (Non-hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Non-hopping) with 8DF	SK modulation. (Non-Hopping nπ/4 DQPSK n n-Hopping): Ke	g): Keep the E modulation. eep the EUT i	UT in contin	nuously transmi	itting mode

10.2. Test Setup





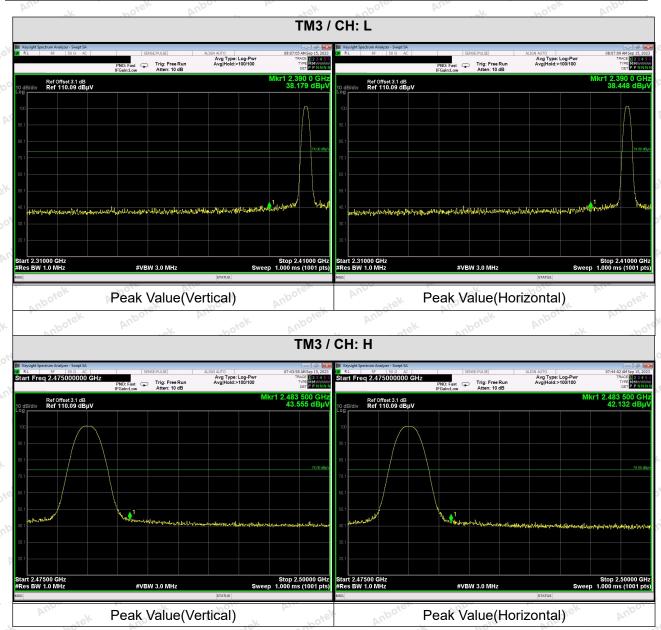




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10.3. Test Data

Temperature: 25.4 °C Humidity: 48.1 % Atmospheric Pressure: 101 kPa







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Average:

Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TM3 / CH: L	38.179	-2.26	35.917	54.00	Vertical	Pass
	38.448	-2.26	36.186	54.00	Horizontal	Pass
TMO / OLL, LL	43.555	-2.26	41.293	54.00	Vertical	otel Pass
TM3 / CH: H	42.132	-2.26	39.870	54.00	Horizontal	Pass

Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





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11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also compecified in § 15.209(a)(see § 15.20	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. b. dek	0.009-0.490	2400/F(kHz)	300 000
abotek Anbo	0.490-1.705	24000/F(kHz)	30 Stek
All aboyen	1.705-30.0	30° , , , , , , , , , , , , , , , , , , ,	30
Aupo, W. Stek	30-88	100 **	3,ek Anbore
- botek Anbu	88-216	150 **	1°3 , rel
Test Limit:	216-960	200 **	3 botes And
Yupo, W.	Above 960	500	3 sek and
nbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operations frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Anbore, Anbore
Procedure:	ANSI C63.10-2020 section	6.6.4 Anborek	Au otek

11.1. EUT Operation

Operating Env	ironment:					
Test mode:	1: TX-GFSK (Non- hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Non- hopping) with 8DP	K modulation. (Non-Hopping): π/4 DQPSK mo n-Hopping): Keep	Keep the El	UT in contin	uously transmi	tting mode

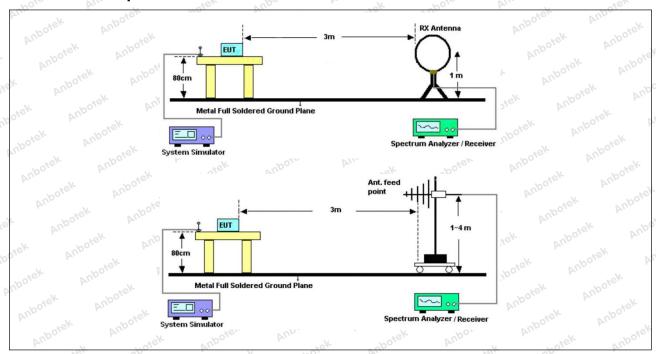






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11.2. Test Setup



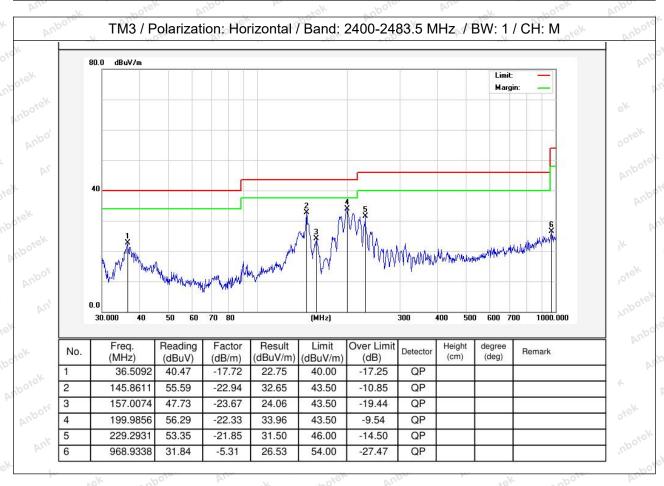




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11.3. Test Data

Temperature: 22.4 °C	Humidity: 52.3 %	Atmospheric Pressure:	101 kPa
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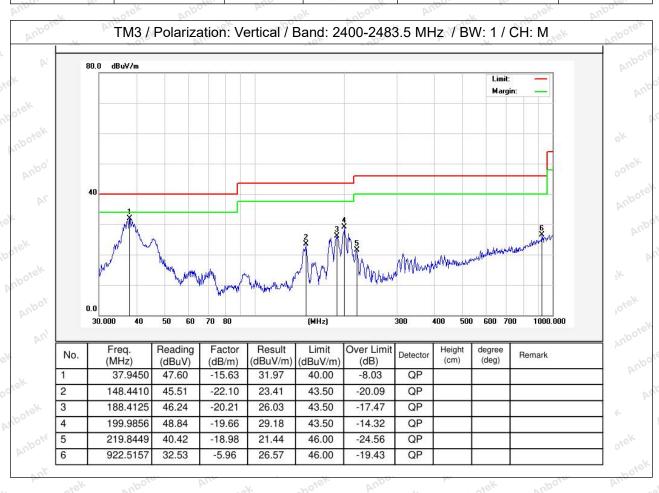






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Temperature: 22.4 °C Humidity: 52.3 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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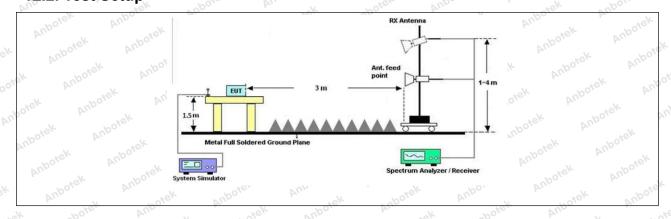
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $5(c)$.	
otek Vupotek Vupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
ok hotek	0.009-0.490	2400/F(kHz)	300 000
Anbore. And	0.490-1.705	24000/F(kHz)	30
otek Anbore	1.705-30.0	30° hatek	30
And k hotek	30-88	100 **	3 ek Anbore
Test Limit:	88-216	150 **	3
rest Limit.	216-960	200 **	3 bore And
Anbo	Above 960	500 More Andre	3 rek no
nbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Anbotek Anb
Procedure:	ANSI C63.10-2020 section	6.6.4	Vur Viek

12.1. EUT Operation

Operating Envi	ronment:	Anbore	Notek .	Anboren	And	anbotek
Test mode:	1: TX-GFSK (Non-hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Non-hopping) with 8DF	SK modulation. (Non-Hopping) η π/4 DQPSK m η-Hopping): Kee	: Keep the E lodulation. ep the EUT ir	UT in contin	uously transmit	ting mode

12.2. Test Setup









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12.3. Test Data

Temperature: 24.2 °C	Humidity: 49.5 %	Atmospheric Pressure:	101 kPa
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Vu _p	hotek Anb		atek anboti	Ans.	ok hotek	Anbo.
			TM3 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.48	15.27	42.75	74.00	-31.25	Vertical
7206.00	28.59	18.09	46.68	74.00	-27.32	Vertical
9608.00	29.52	23.76	53.28	74.00	-20.72	Vertical
12010.00	Aupote, * V.	iek .	abotek Anb	74.00	otek Anbor	Vertical
14412.00	VUPO*SK	Aupo	Potek b	74.00	siek sak	Vertical
4804.00	27.83	15.27	43.10	74.00	-30.90	Horizontal
7206.00	28.88	18.09	46.97	74.00	-27.03	Horizontal
9608.00	28.37	23.76	52.13	74.00	-21.87	Horizontal
12010.00	otek * Anbo	V. No	iek Aupote	74.00	- nboiek	Horizontal
14412.00	hotek* Ar	Dose Vila	tek ab	74.00	ok hoje	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	16.86	15.27	32.13	54.00	-21.87	Vertical
7206.00	17.62	18.09	35.71	54.00	-18.29	Vertical
9608.00	18.54	23.76	42.30	54.00	-11.70 o	Vertical
12010.00	No tek	Anboie. An	- sek	54.00	-M Pr.	Vertical
14412.00	Ant *	anbotek	Aupo, ok	54.00	ipoge Aug	Vertical
4804.00	16.18	15.27	31.45	54.00	-22.55	Horizontal
7206.00	17.94	18.09	36.03	54.00	-17.97	Horizontal
9608.00	17.68	23.76	41.44	54.00	-12.56	Horizontal
12010.00	rek *	otek Wupor	-K 20,	54.00	Vun siek	Horizontal
14412.00	[*]	soiek ant	oto And	54.00	ek Vupo	Horizontal



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				hotek	Anbor	rek
			ГМ3 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	27.50	15.42	42.92	74.00	-31.08	Vertical
7323.00	28.44	18.02	46.46	74.00	-27.54	Vertical
9764.00	28.53	23.80	52.33	74.00	-21.67	Vertical
12205.00	ek * nbotek	Anbor	hotek	74.00	And	Vertical
14646.00	* **	ick Aupole	Pun Vie	74.00	Vupo	Vertical
4882.00	27.53	15.42	42.95	74.00	-31.05	Horizontal
7323.00	28.87	18.02	46.89	74.00	-27.11 o ⁴	Horizontal
9764.00	28.07	23.80	51.87	74.00	-22.13	Horizontal
12205.00	* otek	Anboie	And	74.00	YUpo, ok	Horizontal
14646.00	A.T. Otek	Anbotek	Aupo	74.00	Anboid	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	16.59	15.42	32.01	54.00	-21.99	Vertical
7323.00	17.72	18.02	35.74	54.00	-18.26	Vertical
9764.00	18.40	23.80	42.20	54.00	-11.80	Vertical
12205.00	k *upote	N Diek	anboter	54.00	aborek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	k. potek	Vertical
4882.00	16.09	15.42	31.51	54.00	-22.49	Horizontal
7323.00	17.50	18.02	35.52	54.00	-18.48	Horizontal
9764.00	18.19	23.80	41.99	54.00	12.01 And	Horizontal
12205.00	Anbotek	Aup. *ek	botek	54.00	woick a	Horizontal
14646.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal





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en Aug	rick	anbore	VII.	hoter	AUD	rick
		٦	ГМ3 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.77	15.58	43.35	74.00	-30.65 NO	Vertical
7440.00	28.45	17.93	46.38	74.00	-27.62	Vertical
9920.00	29.08	23.83	52.91	74.00	-21.09	Vertical
12400.00	* Cotek	anbore.	Anti-	74.00	Aupo,	Vertical
14880.00	* Vup	iek upołek	Anbo	74.00	Aupore	Vertical
4960.00	27.60	15.58	43.18	74.00	-30.82	Horizontal
7440.00	28.90	17.93	46.83	74.00	-27.17	Horizontal
9920.00	28.75	23.83	52.58	74.00	-21.42	Horizontal
12400.00	AUD * "SK	abotek	Aupo, k	74.00	Aupote, Au	Horizontal
14880.00	Alapo, ak	Kotek	Anbores	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	17.71	15.58	33.29	54.00	-20.71	Vertical
7440.00	18.73	17.93	36.66	54.00	-17.34	Vertical
9920.00	18.95	23.83	42.78	54.00	-11.22	Vertical N
12400.00	k * spojek	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * %01	sk Aupotor	Arra	54.00	Aupo	Vertical
4960.00	17.53	15.58	33.11	54.00	-20.89	Horizontal
7440.00	18.87	17.93	36.80 M	54.00	-17.20 ote	Horizontal
9920.00	18.09	23.83	41.92	54.00	-12.08	Horizontal
12400.00	* tek	Aupoter	Aur	54.00	Ipo. by	Horizontal
14880.00	An*	* Upotek	Anbo	54.00	Anbore	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 -----

