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FCC Test Report

Dongguan Harmony Electronic Technology Co., **Applicant**

LTD

Hongyun Road, Shuibei Lndustrial Zone, Shipai Address

Town, Dongguan, Guangdong, China

WIRELESS SPEAKER Product Name

Report Date : Aug. 13, 2024

Shenzhen Anbotek Con Anbotek



ce/Laboratory Limited







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TEST REPORT

Applicant : Dongguan Harmony Electronic Technology Co., LTD

Manufacturer : Dongguan Harmony Electronic Technology Co., LTD

Product Name : WIRELESS SPEAKER

Model No. : GT01

Trade Mark : N/A

Datio v(a) Input: 5V≕ 1A

Rating(s) : Hiput. 3V TA
Battery Capacity: DC 3.7V, 2600mAh

47 CFR Part 15.247

Test Standard(s) : ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

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

Date of Receipt:	Jun. 27, 2024
hotek Anboter And tek anbotek An	
Date of Test:	Jun. 27, 2024 to Jul. 15, 2024
	Ella Liang
Prepared By:	ak Aupolek Aupon Jek Woolek Au
	(Ella Liang)
Aupotek Wilder Wilder Wilder Wilder	Idward pan
Approved & Authorized Signer:	Dotek Anbotek Anbote Anbote
	(Edward Pan)





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Revision History

Report Version		Description	Issued Date			
	Anbore R00 potek Ant	Original Issue.	Aug. 13, 2024			
3	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant			
/0	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter			





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1. General Information

1.1. Client Information

Applicant	: Dongguan Harmony Electronic Technology Co., LTD
Address	Hongyun Road, Shuibei Lndustrial Zone, Shipai Town, Dongguan, Guangdong, China
Manufacturer	: Dongguan Harmony Electronic Technology Co., LTD
Address	Hongyun Road, Shuibei Lndustrial Zone, Shipai Town, Dongguan, Guangdong, China
Factory	: Dongguan Harmony Electronic Technology Co., LTD
Address	Hongyun Road, Shuibei Lndustrial Zone, Shipai Town, Dongguan, Guangdong, China

1.2. Description of Device (EUT)

18. VD.		of No. W. Stern Color
Product Name	:	WIRELESS SPEAKER
Model No.	:	GT01 Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 And Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	1.68dBi Anbotek Anbotek Anbotek Anbotek

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	Title Manufacturer		Serial No.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	

1.4. Operation channel list

Operation Band:

Operation E	Band:	42	oier Anbu		stek nob	0, 0,	You
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Aupolog	2402	20	2422	40	2442	60	2462
PUA OFSI	2403	210tek	2423	41,000	2443	61	2463
2, nboker	2404	22 _{nb} ote	2424	42	2444	62	2464
iek 3 Anbo	2405	tek 23 ant	2425	43	ore 2445 prof	63	2465
botek 4 Ar	2406	24	2426	44	2446	64	2466
nbo'5	2407	25	2427	45	2447	65	2467
6 tek	2408	26	2428	46k	2448	66	2468
7 _{nb} otek	2409	27 00 tel	2429	47	2449	67 ¹⁰⁰	2469
ek 8 mbol	2410	28	2430	48	2450 000	68 Mapo	2470
otek 9	2411 Pribe	29	2431	49	2451	o ^{tel} 69	2471
10	2412	30	2432	mbo 50	2452	Anb 70	2472
11ek	2413	Anbasa 31	2433	An ^b 51	2453	71°	2473
12 nek	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53×nbote	2455	× 73 Anbot	2475
14	2416	34	2436	stek 54 Anb	2456	otek 74 Ari	2476
15	2417	35	2437	nbotels F	2457	₃₀₀ ,75	2477
16	2418	36	2438	56	2458	76	2478
Anbore 17	2419	M37	2439	57	2459	77 otek	2479
18	2420	3810010	2440	58,001e	2460	78 nbott	2480
19	2421	39 Anbo	2441	tek 59 Anbo	2461	otek - val	otek - Anbe
- V	D. D.		76.	, ,		D. DV.	



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1.5. Description of Test Modes

Pretest Modes	Descriptions
Amborek TM1 bores	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	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.
TM4 ek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anborek TM5 polek	Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.
Anbotek TM6 Anbotek	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 otek Anbotek Anbotek
Conducted Output Power	0.76dB
Conducted Spurious Emission	1,24dB Anborek Anborek Anborek
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

- AU		
Test Items	Test Modes	Status
Antenna requirement	abotek / Anboten	And Potek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P P
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	Tupo. B
Number of Hopping Frequencies	Mode4,5,6	Anbo P
Dwell Time	Mode4,5,6	PP of
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P _{VUE}
Band edge emissions (Radiated)	Mode1,2,3	Pu Pu
Emissions in frequency bands (below 1GHz)	Mode1,2,3	upore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbo, Prek
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbore

N: N/A, not applicable





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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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.
- 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	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 _{of}	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alooiek	Anborotek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
4	1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	o ^{tek} N/A An	2023-10-16	2024-10-15	
	2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19	
	411 3 018	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	
	4.nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21	
**	5 }	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11	
, te	6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03	

Hotline



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0,00	And	stek rupo.	N. Ok	pote.	AUS	iek
	edge emissions (Ra sions in frequency ba		Auporg	Anboick	Aupotek	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 0.0	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbote 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolok
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
₹e ¹ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

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	2024-01-23	2025-01-22				
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16				
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22				
Andorel	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.cbott	Nupon pole	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 1.68dBi . It complies with the standard requirement.





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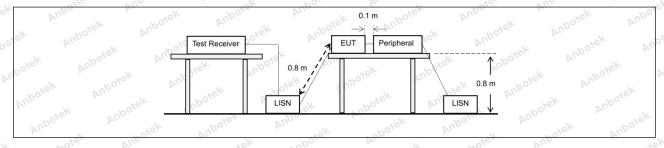
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha ny frequency or frequencie t exceed the limits in the fo	nected to the at is conducted as, within the ollowing table, as	
spoick Aupon	Frequency of emission (MHz)	Conducted limit (dBµV)		
YII.	Anbore Anbore	Quasi-peak	Average	
Aupor Air	0.15-0.5	66 to 56*	56 to 46*	
Test Limit:	0.5-5	56	46	
Will work	5-30 And San	60	50 And	
k Anbors Ar.	*Decreases with the logarithm of t	he frequency.		
Test Method:	ANSI C63.10-2020 section 6.2	Anborek Anbore	And	
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission			

3.1. EUT Operation

Operating Envi	ronment:	Anbo	botek	Aupote	Ann	Anborek	Anbo
Test mode:	hopping) w 2: TX-π/4-[(non-hoppi 3: TX-8DPS	ith GFSK model of the GFSK (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





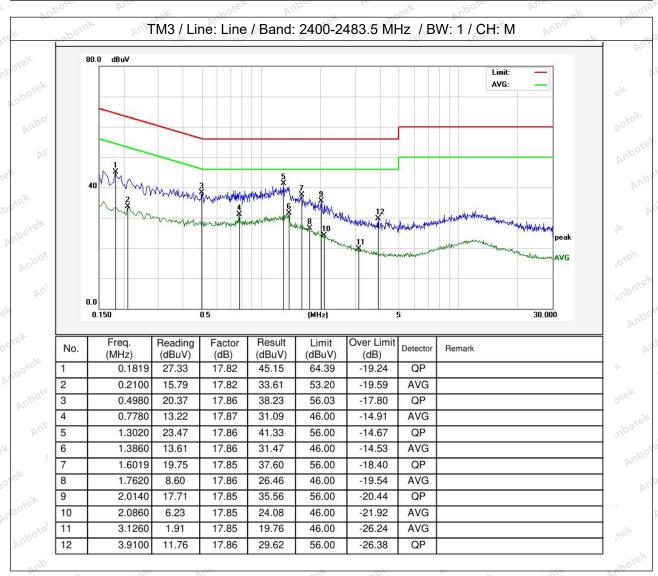
Hotline



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3.3. Test Data

Temperature:	24.9 ° C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
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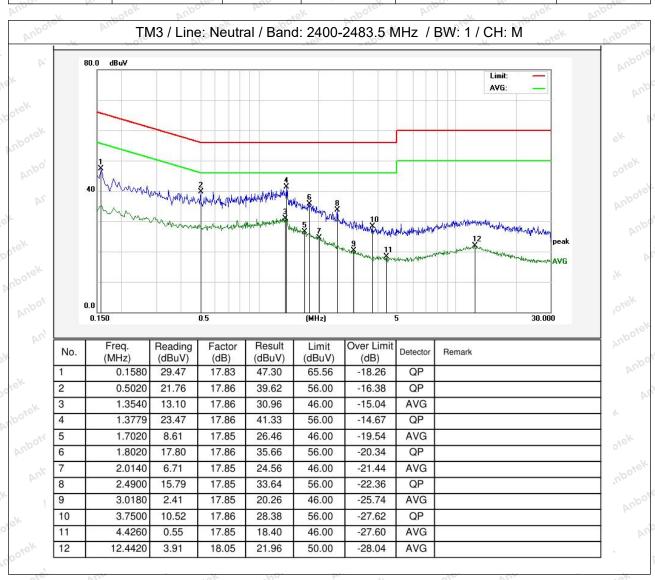






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Temperature: 24.9 ° C Humidity: 53 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anborek Anborek Anborek Anborek	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
Anbotek Anbotek Anbotek Anbotek 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 general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in
Procedure:	 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are
	placed in a running sum until 0.5% of the total is reached; that frequency is 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 Environment:		Ann	Anborek	Vupo.	abotek .	Aupore.	Vur
Test mode:	1: TX-GFSK	(Non-Hoppir	ng): Keep the	EUT in contir	nuously trans	mitting mode	(non-







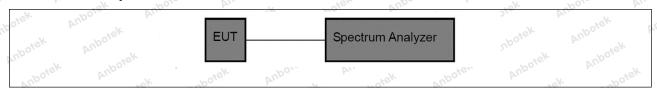
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hopping) with GFSK modulation.

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

Temp	erature: 25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	,0
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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
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.
Procedure:	e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize.
ek Anbotek Anbr	h) Use the marker-to-peak function to set the marker to the peak of the emission.
potek Anborek	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
Anbotek Anbotek Anbotek Anbotek	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
sk Aupo, W.	analyzer.

5.1. EUT Operation

Operating Envi	ronment:	Anboro	Vun	Aupolek	Aupo *ek	Spotek
Test mode:	1: TX-GFSK (Non-l hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Non-hopping) with 8DPS	K modulation (Non-Hoppin π/4 DQPSK -Hopping): Ko	g): Keep the E modulation. eep the EUT ir	UT in contin	uously transm	itting mode

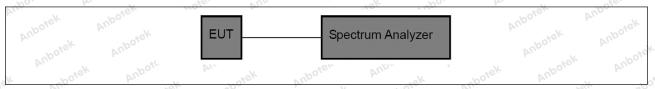






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5.2. Test Setup



5.3. Test Data

10	Tomporaturo	25.5 °C	Humidita	47 %	Atmospheric Pressure:	101 kPa
	Temperature:	25.5 6	Humidity:	47 70	Aunosphenc Flessure.	101 kPa





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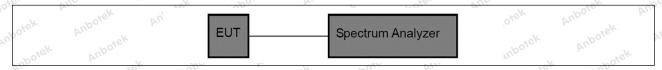
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	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	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.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
botek Anbotek Anbotek Anbotek Anbotek	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: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa	
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7. Number of Hopping Frequencies

ap	20,			- 000°		
Test Requirement:	47 CFR 15	5.247(a)(1)(iii)	Anbo.	h. shotek	Anbore	Ansotek
Test Limit:	2483.5 MF occupancy period of 0 employed. transmissi	T CFR 15.247(Iz band shall u on any chanr 0.4 seconds mu Frequency ho ons on a particuls are used.	ise at least 15 nel shall not be ultiplied by the opping system	channels. The greater than number of he may avoid o	ne average ti n 0.4 seconds opping chan or suppress	me of s within a nels
Test Method:		.10-2020, sect 74 D01 15.247		nce v05r02	Aupotek	Anbotek
Anbotek	spectrum a a) Span: T channels t range of o be clearly b) RBW: T	o identify clear channel spac	gs: pand of operatorits, it could s multiple spa	tion. Dependi be necessary ns, to allow th al channels,	ng on the nu to divide the ne individual set the RBW	mber of e frequency channels to to less than
Procedure:	d) Sweep: e) Detecto f) Trace: M	No faster than r function: Pea	ak.ek Anbo	o) time.		
Anbotek Anbotek Anbotek Anbotek	all of the h regulatory	ove necessary opping freque limit shall be o ot of the datas	ncies. Complia letermined for	ance of an El the number	JT with the a of hopping ch	ppropriate

7.1. EUT Operation

Operating Envir	conment: otek Anbotek Anbotek Anbotek Anbotek An
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

- 2/2	V0,1	P11.	10,	10	M.		
Upotes.		EUT		Spectrum Analyzer			Anbotek
Anboren						anb otek	anbotek
LON			. 01	127.	LON	- 20	

7.3. Test Data

Temperature: 25.5°	C Humidity:	47 %	Atmospheric Pressure:	101 kPa
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8. Dwell Time

Aupor Ali	- Shotek	Anbe	York	Pupo,	DI	Poles.
Test Requirement:	47 CFR 15.2	247(a)(1)(iii)	Anba	k spojek	Aupor	W. Otek
Test Limit:	2483.5 MHz occupancy of period of 0.4 employed. F	band shall on any chan seconds m requency h ns on a parti	use at least nel shall not ultiplied by tl opping syste	quency hoppir 15 channels. T be greater than ne number of h ms may avoid g frequency pr	he average ting 0.4 seconds nopping chanror suppress	ne of within a nels
Test Method:	ANSI C63.1 KDB 558074			ance v05r02	k Anborek	Anborek
hbotek Anbotek Anbotek	transmission a single tran transmission	n to the end ismission pe n. If the devi is measured	of the last tra er hop then th ce has a mul	is the time fro ansmission for ne dwell time is tiple transmiss t of the first tra	that hop. If the the the thick the t	e device has of that then the
	over an obsidetermine the measure bo	ervation per ne time of oo th the dwell	iod specified ccupancy the	ne that the devine the regulator spectrum ana and the numb given period.	ory requireme lyzer will be c	nt. To onfigured to
Anborek Anborek Anborek Anborek Anborek Procedure:	requirement number of c the number based on the dwell times for 1, 3 or 5	s shall be m hannels ena of channels e minimum per channel time slots) t	nade with the obled. If the of than complianumber of chamber because the measure the measure that the measure the measure that the measure tha	tion enabled. O minimum and well time per cance with the re annels. If the cannels device ements can be of channels.	with the maxi channel does equirements r device suppor s can dwell or	mum not vary with nay be ts different n a channel
	Use the follo	owing specti	um analyzer	settings to def	termine the dv	vell time per
	a) Span: Ze b) RBW sha	ll be ≤ chan	nel spacing a	opping channe and where pos transmission t	sible RBW sh	ould be
	c) Sweep tir last transmis	ne: Set so the	nat the start on the hop are clea	of the first trans arly captured. S	smission and Setting the sw	eep time to
	1/hopping ra d) Use a vid the transmis	ate) should a eo trigger, v ssion is clea	achieve this. where possiblerly observed.	eriod per chan e with a trigge The trigger leven the system	r delay, so tha vel might need	t the start of adjustment
	channel. e) Detector f) Trace: Cle	function: Pe ear-write, sin	ak. gle sweep.	rst transmissio	otek Yupo	iek Vupo,









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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:

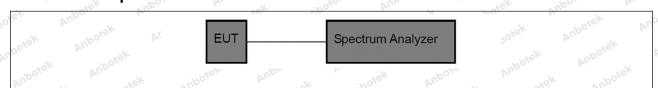
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

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:	25.5 °C	Humidity:	47 %	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 Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
hbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbote	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.
	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.
Procedure: potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be 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







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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.

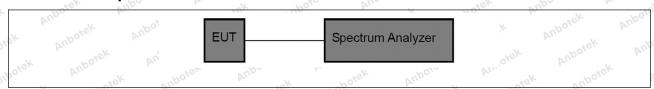
9.1. EUT Operation

Operating Environment:

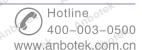
- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting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







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10. Band edge emissions (Radiated)

		*6L				
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 Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300 Mboro			
abotek Anbo	0.490-1.705	24000/F(kHz)	30 Stek			
	1.705-30.0	30	30			
	30-88	100 **	3,ek anbore			
	88-216	150 **	3			
	216-960	200 **	3 botes And			
	Above 960	500	3 30/			
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
potek Pupo, b	18K 190, D.	k kotek Pupo,	- rek			
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		sk Wypo,			
Procedure:	ANSI C63.10-2020 section	6.10.5.2	or Air			

10.1. EUT Operation

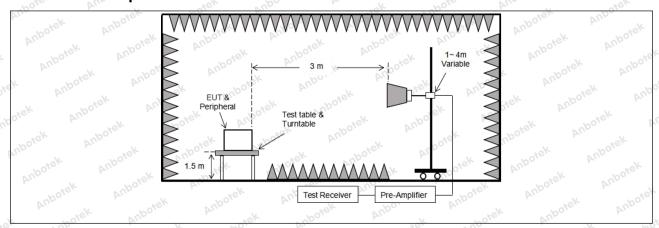
Operating Envir	onment:
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously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





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10.2. Test Setup



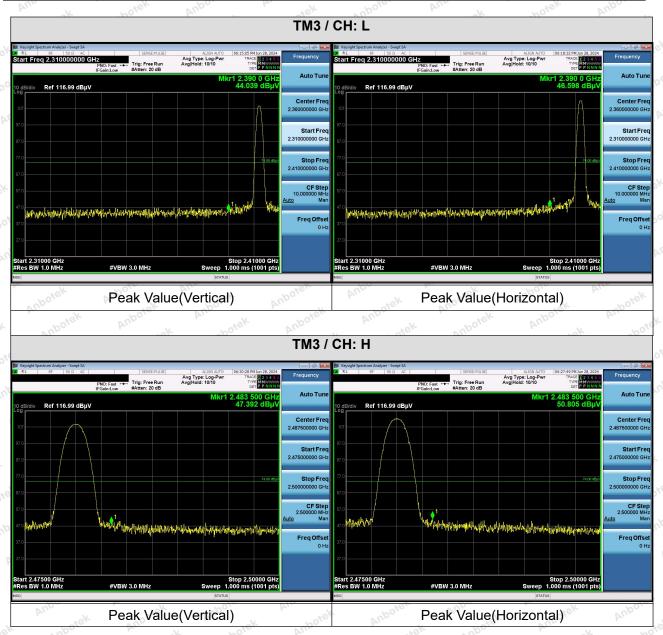




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10.3. Test Data

Temperature: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



Remark

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 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 comp ecified in § 15.209(a)(see § 15.2	ly with the
otek Vupotek Vupor	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
V Lotek	0.009-0.490	2400/F(kHz)	300 Mport
abover And	0.490-1.705	24000/F(kHz)	30
An Anborer	1.705-30.0	30° AND	30 Ant
Anbo	30-88	100 **	3 ek nbore
Spoten Anbe	88-216	150 **	3
Air stek ambote	216-960	200 **	3 boten And
V Aupo, N.	Above 960	500 horek Anbo	3 yek onb
nbotek 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	aragraph (g), fundamental emissing under this section shall not be lz, 76-88 MHz, 174-216 MHz or at these frequency bands is permitted as 15.231 and 15.241. It is, the tighter limit applies at the bein the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. sed under other band edges. measurements uency bands 9—ssion limits in
Pup.	ANCI 002 10 2020 costion	C C 18k	r rotok
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N	* Up. 100.	ek abotek
Procedure:	ANSI C63.10-2020 section	6.6.4	or All Potek

11.1. EUT Operation

Operating Envir	conment: 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.

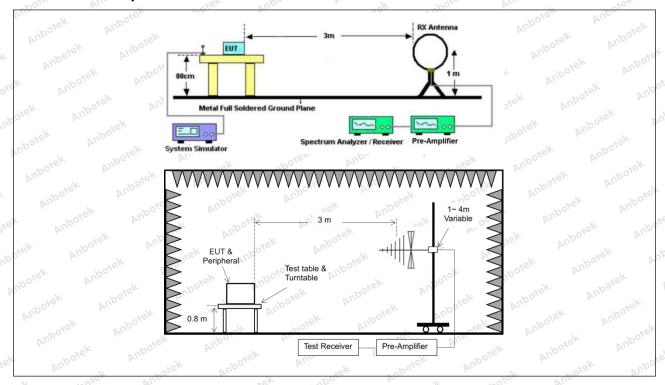






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11.2. Test Setup





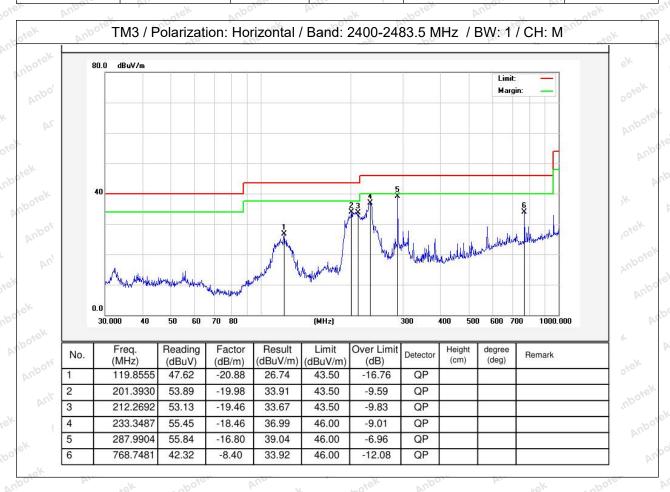


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11.3. Test Data

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

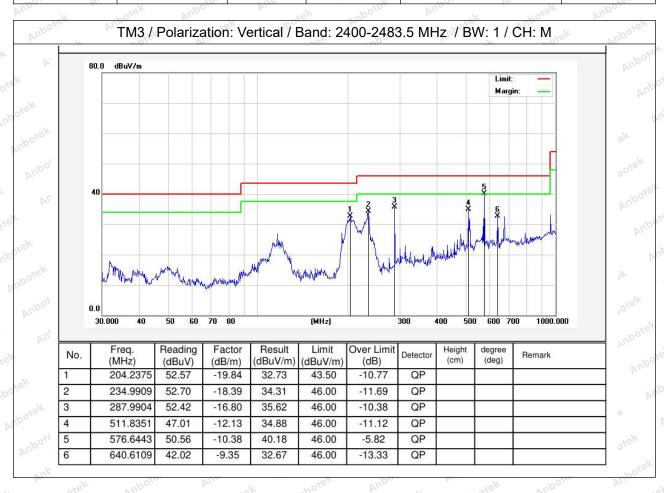
Temperature:	20.3 °C	Humidity:	46 %	Atmospheric Pressure:	101 kPa





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Temperature: 20.3 °C Humidity: 46 % 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 by with the radiated emission 5(c)).	
k Aupotek Aupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
or hotek	0.009-0.490	2400/F(kHz)	300 Mbore
Anbore, Anb	0.490-1.705	24000/F(kHz)	30
hotek Anbore	1.705-30.0	30	30
Ann sek shotek	30-88	100 **	3,ek Anbore
Anbore And	88-216	150 **	3
botek Anbor	216-960	200 **	3 bores Ant
Test Limit:	Above 960	500 ragraph (g), fundamental emissi	3 potek pri
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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-page 110-490 kHz, 110-490 kHz and a section of the se	ing under this section shall not be z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitted in the tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. sed under other band edges. measurements uency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		sk Vupotek
Procedure:	ANSI C63.10-2020 section	6.6.4	ore Au

12.1. EUT Operation

Operating Envir	onment:
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.

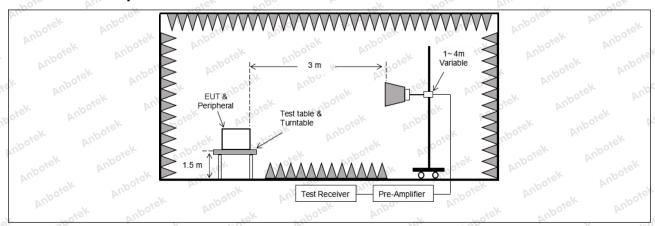






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12.2. Test Setup







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12.3. Test Data

Temperature: 20.3 °C	Humidity: 46 %	Atmospheric Pressure:	101 kPa
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Yur ok	hotek Anb		atek anbott	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	29.82	15.27	45.09	74.00	-28.91	Vertical
7206.00	30.53	18.09	48.62	74.00	-25.38	Vertical
9608.00	32.26	23.76	56.02	74.00	-17.98	Vertical
12010.00	Anboie * A	iek .	abotek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*SIK	Aupo.	hotek P	74.00	rick not	Vertical
4804.00	29.97	15.27	45.24	74.00	-28.76	Horizontal
7206.00	31.69	18.09	49.78	74.00	-24.22	Horizontal
9608.00	29.37	23.76	53.13	74.00	-20.87	Horizontal
12010.00	otek * Anbo	Vr 20	iek Aupote	74.00	- nbotek	Horizontal
14412.00	hotek* An	ports Ant	tek abo	74.00	ok hote	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	polarization
(MHz) 4804.00	(dBuV) 19.20	(dB/m)	(dBuV/m) 34.47	(dBuV/m) 54.00	(dB)	Vertical
7206.00	19.20	18.09	37.65	54.00	-19.53 -16.35	Vertical
9608.00	21.28	23.76	45.04	54.00	-8.96	Vertical
12010.00	*	23.70	20143.04 And	54.00	-8.90	Vertical Vertical
14412.00	Anbore *	Vu.	Vupolek Vu	54.00	botek Anbo	Vertical
4804.00	18.32	15.27	33.59	54.00	-20.41	Horizontal
7206.00	20.75	18.09	38.84	54.00	-15.16	Horizontal
9608.00	18.68	23.76	42.44	54.00	-11.56	Horizontal
12010.00	*	otek Anbott	N TZ.TTO	54.00	Aupo /	Horizontal
14412.00	Upoter * Mus	siek nat	otek Aupo,	54.00	ek Auporen	Horizontal



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ek Anbore	Ann	anbotek	Aupo	hotek	Anbore A	'As alek
		٦	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	29.84	15.42	45.26	74.00	-28.74	Vertical
7323.00	30.38	18.02	48.40	74.00	-25.60	Vertical
9764.00	31.27	23.80	55.07	74.00	-18.93	Vertical
12205.00	ek * nbotek	Anbo.	, hotek	74.00	And	Vertical
14646.00	* * *	iek Aupole	Aug	74.00	Aupo	Vertical
4882.00	29.67	15.42	45.09	74.00	-28.91	Horizontal
7323.00	31.68	18.02	49.70	74.00	-24.30	Horizontal
9764.00	29.07	23.80	52.87	74.00	-21.13	Horizontal
12205.00	* otek	Anboies	And	74.00	YUpo, K	Horizontal
14646.00	A.*	anbotek	Aupo,	74.00	Anboro	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.93	15.42	34.35	54.00	-19.65	Vertical
7323.00	19.66	18.02	37.68	54.00	-16.32	Vertical
9764.00	21.14	23.80	44.94	54.00	-9.06	Vertical
12205.00	k *upor	V VIII.	anboien	54.00	abotek	Vertical
14646.00	otek * Anbot	And	sk spojek	54.00	Pr. Potek	Vertical
4882.00	18.23	15.42	33.65	54.00	-20.35	Horizontal
7323.00	20.31	18.02	38.33	54.00	-15.67	Horizontal
9764.00	19.19	23.80	42.99	54.00	11.01 And	Horizontal
12205.00	anb*o*ek	Pupp.	abotek	54.00	otek r	Horizontal
14646.00	* worch	Aupor	A. rek	54.00	AUD	Horizontal





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Le. VUD	- dek	Vupo,	N. OK	-hote.	VUR.	rek.
			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	30.11	15.58	45.69	74.00	-28.31 NO	Vertical
7440.00	30.39	17.93	48.32	74.00	-25.68	Vertical
9920.00	31.82	23.83	55.65	74.00	-18.35	Vertical
12400.00	* * Stel	anbotes	Anb	74.00	Aupor	Vertical
14880.00	* And	rek "potel	Aupo.	74.00	Aupore.	Vertical
4960.00	29.74	15.58	45.32	74.00	-28.68	Horizontal
7440.00	31.71	17.93	49.64	74.00	-24.36	Horizontal
9920.00	29.75	23.83	53.58	74.00	-20.42	Horizontal
12400.00	Anb *	abořek	Aupo,	74.00	Anbote, Ant	Horizontal
14880.00	VI*por	hotek hotek	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	20.05	15.58	35.63	54.00	-18.37	Vertical
7440.00	20.67	17.93	38.60	54.00		Vertical
9920.00	21.69	23.83	45.52	54.00	-8.48	Vertical
12400.00	k * potek	Anbo.	hotek	54.00	And	Vertical
14880.00	* * *	sk Aupore	Aug	54.00	Vupo.	Vertical
4960.00	19.67	15.58	35.25	54.00	-18.75	Horizontal
7440.00	21.68	17.93	39.61 M	54.00	-14.39	Horizontal
9920.00	19.09	23.83	42.92	54.00	±11.08	Horizontal
12400.00	* tek	Aupotes	Aur	54.00	ipo. br.	Horizontal
14880 00	Ant *	hotel	Anbo	54 00	Aupore A	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 -----

