

Address

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FCC Test Report

Shenzhen Kensing Electronics Company Applicant

Limited

3A, Building 5, Hanhaida (Tianliao) Science and

Technology Park, Guangming New District,

Shenzhen, China

Product Name Wireless headset

: Nov. 15, 2023 Report Date

Shenzhen Anbotek Compilar ce Laboratory Limited







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TEST REPORT

Applicant : Shenzhen Kensing Electronics Company Limited

Manufacturer : Shenzhen Kensing Electronics Company Limited

Product Name : Wireless headset

Test Model No. : BT-88

Reference Model No. : N/A

Trade Mark : N/A

Rating(s) : Input: 5V= 160mA(with DC 3.7V, 500mAh battery inside)

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:	Oct. 11, 2023	
	Anbotek Anbotek Anbote All	
Date of Test:	Oct. 11, 2023 to Oct. 23, 2023	
Anbotek Anbotek Anbotek Anbotek	Tu Tu Hong	
Prepared By:	Tek Potek Wupo, O W. Totek	2.0
	(TuTu Hong)	
	Idward pan	
Approved & Authorized Signer:	Andor An Hotek Anboren An	10-
	(Edward Pan)	



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Revision History

Report Version		Description	Issued Date		
	Anbore R00 potek An	Original Issue.	Nov. 15, 2023		
	k Anborek Anborek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb		
	ore Ambotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotek		





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1. General Information

1.1. Client Information

Applicant		Shenzhen Kensing Electronics Company Limited
Address	:	3A, Building 5, Hanhaida (Tianliao) Science and Technology Park,Guangming New District, Shenzhen, China
Manufacturer		Shenzhen Kensing Electronics Company Limited
Address	:	3A, Building 5, Hanhaida (Tianliao) Science and Technology Park,Guangming New District, Shenzhen, China
Factory	:	Shenzhen Kensing Electronics Company Limited
Address	:	3A, Building 5, Hanhaida (Tianliao) Science and Technology Park,Guangming New District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Wireless headset
Test Model No.	:	BT-88 Anborek Anborek Anborek Anborek
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V/60Hz for adapter/DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A hotek Anbore Anbore Anborek Anborek Anborek
RF Specification	•	
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	3.87 dBi
Pomark:		Ann stek and An ok sole An

- (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

-hote.							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
P/0 0,00	2402	20	2422	40 orek	2442	60	2462
1 _{Anbote}	2403	× 21 00	2423	41	2443,000te	61	2463
tek 2 Anb	2404	22	otek 2424 Anbo	42		oten 62 And	2464
	2405	23	2425	43	2445	10016 63	2465
4,	2406	¹⁰⁰ 24	2426	Anbold4	2446	64	2466
Anbo 5	2407	25	2427	45	2447	65	2467
6	2408	26°	2428	46	2448	66	2468
Zupore.	2409	27 _{Anbote}	2429	47 _{abo} t	2449	67	2469
iek 8 Anbo	2410	10 28 NO	2430	48	otel 2450 Anbo	68	2470
botek 9 At	2411	29	2431	49	2451	69 P	2471
10	2412	30	2432	Anborto	2452	Anb 70	2472
11,ek	2413	And 31	2433	51	2453	7.71 tek	2473
12	2414	32	2434	52°	2454	72 orek	2474
13	2415	33 ¹	2435	k 53 _{Anbot}	2455	× 73	2475 botto
14 Anbo	2416	rek 34 And	2436	otek 54 prot	2456 Andrew	74	2476
o ^{tek} 15 An	2417	, ot 0 35	2437	55	2457	75	2477
300116	2418	36	2438	56	2458	Anbore	2478
17°K	2419	37	2439	Anbore	2459	A.77	2479
18 orek	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59, nbote	2461	ek - nhoi	- Aupo,

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1otek Anbo	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
M2 nbotek TM2 nbotek	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3 Anborek	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,.
Anborrek TM5 tek Anborren	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anborek TM6 borek An	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
Conducted Output Power	0.76dB And tek Anbotek Anbotek
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.





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1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anboten	P
Conducted Emission at AC power line	Mode1,2,3	P ^{Anb}
Occupied Bandwidth	Mode1,2,3	P An
Maximum Conducted Output Power	Mode1,2,3	upote Pk
Channel Separation	Mode4,5,6	Wupos
Number of Hopping Frequencies	Mode4,5,6	AP OF
Dwell Time	Mode4,5,6	Panbo
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P Ant
Band edge emissions (Radiated)	Mode1,2,3	ipoles B
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	ATP
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	tek Aupone





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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	Aupo	k spotel	Anbore	An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 2 50 tek	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	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	Power Meter	Agilent	N1914A	MY500011 02	2023-10-20	2024-10-19
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4 4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

Hotline



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

Emiss	sions in frequency ba	ands (below 1GHz)	Anbore.	Anshotek	Anbotek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Andorel	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	AU Jose	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 **3.87 dBi**. It complies with the standard requirement.





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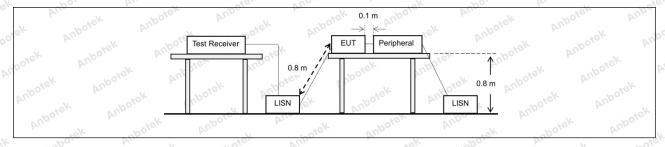
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the reback onto the AC power line on ar band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms	that is designed to be con adio frequency voltage tha ny frequency or frequencie t exceed the limits in the f	nected to the at is conducted as, within the ollowing table, as			
o h spoiek	(LISN).	Can duated limit (dD:\/)	Anbore			
Aupore All.	Frequency of emission (MHz)	Conducted limit (dBµV)	Averego			
sotek Anbo.	W. The Work William	Quasi-peak	Average			
Test Limit:	0.15-0.5	66 to 56*	56 to 46*			
rest Littit.	0.5-5 dek nabote Ame	56 hotel An	46			
Ans above	5-30 And San	60	50 And			
Anbors Air	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug Otek			
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:	Aupore	Pur Potek	Anbotek	Vupo,	anboick .	Aupore
Test mode:	hopping) wit 2: TX-π/4-D	h GFSK mod QPSK (Non-	dulation. Hopping): K	eep the EUT	ntinuously trans in continuously	P.U.P.	ek .
Anborek Anb	(non-hoppin 3: TX-8DPS hopping) wit	K (Non-Hop	oing): Keep t		ontinuously tran	nsmitting mo	de (non-

3.2. Test Setup



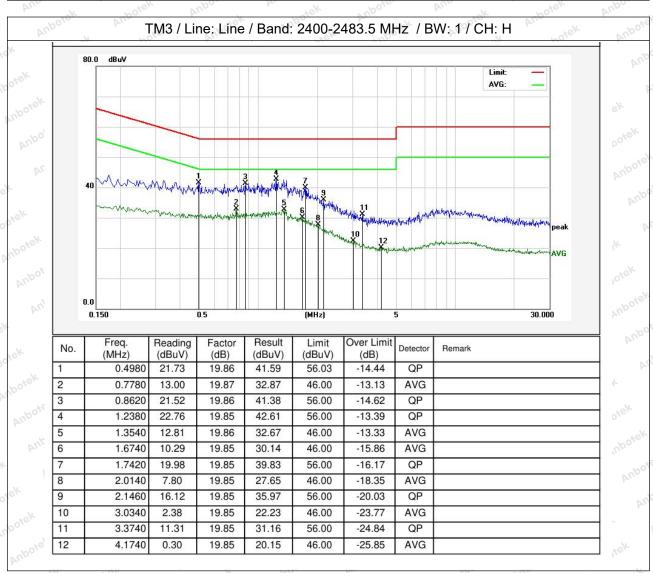




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3.3. Test Data

Temperature: 22.8 °C Humidity: 57.1 % Atmospheric Pressure: 102 kPa

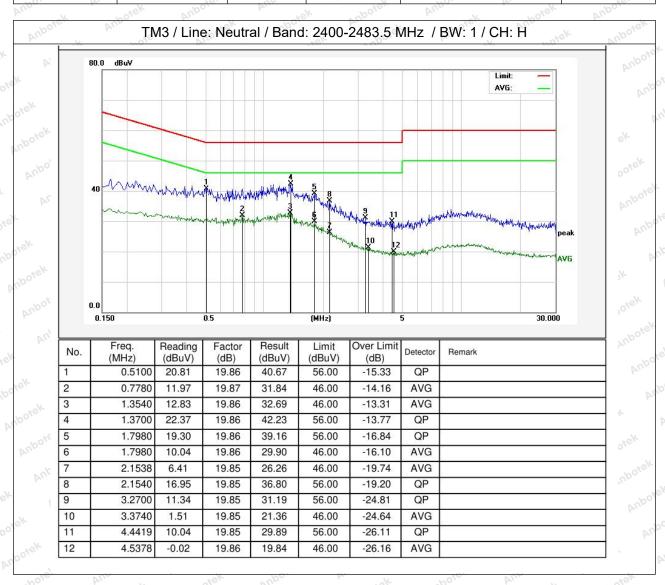






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Temperature: 22.8 °C Humidity: 57.1 % Atmospheric Pressure: 102 kPa



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: Anbotek Anbotek Anbotek Anbotek Anbotek	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
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 equa 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.
Anbotek Anbote	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.
Procedure:	d) Step a) through step c) might require iteration to adjust within the specified range.
Anbotek Anbore	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%
tek Vupotek Vu	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:	potek	Aupore.	Ansoiek	Anbotek	Vupo.	N
Test mode:	1: TX-GFSK	(Non-Hoppin	g): Keep the	EUT in contin	uously trans	mitting mode (non-







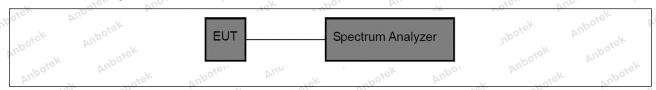
Report No.: 18220WC30217001 FCC ID: 2A5CE-BT-88 Page 19 of 40

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: 25.8	°C Humidity:	48.9 %	Atmospheric Pressur	e: 101 kPa
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Please Refer to Appendix for Details.





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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: 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
Anbotek Anbotek Anbotek Anbotek 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:
ek Anbotek Anb	a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
potek Anbotek	b) RBW > 20 dB bandwidth of the emission being measured.c) VBW ≥ RBW.
Anbotek Anbotek	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
ik Anbores And	h) Use the marker-to-peak function to set the marker to the peak of the emission.
otek Anbotek	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
Aupotek Aupotek	j) A spectral plot of the test results and setup description shall be included in the test report.
Anbotek Anbore	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 Env	ironment:
Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
upotek Aupote	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

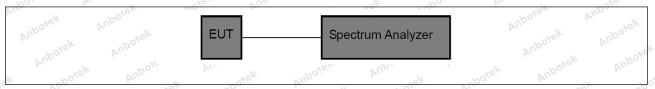






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5.2. Test Setup



5.3. Test Data

10	Temperature: ott	25.8 °C	Humidite	48.9 %	Atmospheric Pressure:	101 kPa
	remperature.	25.6 6	Humidity:	40.9 70	Aunosphenc Flessure.	IUIKFA

Please Refer to Appendix for Details.





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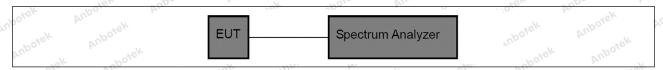
6. Channel Separation

Upo. Iv.	though the the training training the training traini
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
Anbotek Anbote	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.
Procedure:	c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time.
	e) Detector function: Peak. f) Trace: Max-hold.
	g) Allow the trace to stabilize.
	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

Operating Env	vironment: grek Anbore And tek hotek Anborek Anborek Anborek
nbotek Anbot	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.
Anbotek	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

6.2. Test Setup



6.3. Test Data

Temperature: 2	25.8 °C	Humidity:	48.9 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









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7. Number of Hopping Frequencies

LOV-	70, N. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
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 o 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3
Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
	It might prove necessary to break the span up into subranges to show clear 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:
70	anboiek Anbi	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.
-	k Anboter	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

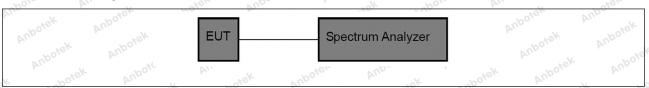






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7.2. Test Setup



7.3. Test Data

10	Temperature: ott	25.8 °C	Humidite	48.9 %	Atmospheric Pressure:	101 kPa
	remperature.	25.6 6	Humidity:	40.9 70	Aunosphenc Flessure.	IUIKFA

Please Refer to Appendix for Details.





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8. Dwell Time

upor Ali	boiek	Anbo	rek	anbore	Au A	- bolek
Test Requirement:	47 CFR 18	5.247(a)(1)(iii) Anbe	k spotek	Anbore	Y Aur Otek
Test Limit:	2483.5 MH occupancy period of 0 employed transmissi	Iz band shall on any char 0.4 seconds n Frequency h	use at least onel shall not nultiplied by the opping syste	quency hoppi 15 channels. be greater that he number of ms may avoic g frequency p	The average an 0.4 secon hopping cha I or suppress	time of ds within a nnels
Test Method:	ANSI C63	.10-2020, sed	ction 7.8.4	L Anbotek	Anbo.	ak abojek
tek Anbotek Anbotek Anbotek Anbotek	transmissi a single tra transmissi dwell time the last tra	on to the end ansmission poon. If the dev is measured insmission.	of the last tra er hop then th ice has a mul from the star	ne dwell time tiple transmis t of the first tr	r that hop. If is the durations per hotans per hotans ansmission to	the device has n of that p then the o the end of
	over an obdetermine measure b	eservation per the time of o both the dwell	riod specified ccupancy the	and the num	tory requirem alyzer will be	ent. To configured to
	"O'EK	Anbotes A	,nbc *ek	abotek		
Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	requireme number of the number based on dwell time for 1, 3 or	nts shall be not channels ender of channels the minimum is per channe time slots)	nade with the abled. If the d than complia number of ch I (example Bl	ance with the pannels. If the uetooth devicements can be	d with the ma channel doe requirements device supp es can dwell	eximum s not vary with s may be orts different on a channel
	llee the fo	llowing spect	rum analyzer	settings to de	atermine the	dwell time per
	hop:	nowing speci	Anborek	Anborek	Anborelle Anborelle	Anbotek
	b) RBW sl	nall be ≤ char	nnel spacing a	opping chann and where pos transmission	ssible RBW s	
	c) Sweep last transn be slightly	time: Set so t nission for the	hat the start on the hop are clean he hopping p	of the first tran arly captured. eriod per cha	nsmission and Setting the s	d end of the weep time to
	d) Use a v the transm to reduce channel.	ideo trigger, vission is clea the chance o	where possibl Irly observed. f triggering wh		evel might ne	hat the start of ed adjustment n adjacent
	710	r function: Pe				
tek pupoje. Ar	T) Trace: C	iear-write, sir	ngle sweep.	in Oto K	anbore.	Vu.









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g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between 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

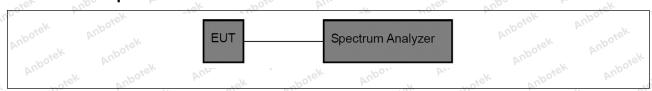
Operating Environment:

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: 25.8 °C Humidity: 48.9 % Atmospheric Pres	sure: 101 kPa
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Please Refer to Appendix for Details.







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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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
ek abotek	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:	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.
	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

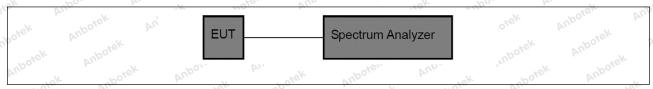
Operating Environment:

- 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.

Test mode:

- 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



9.3. Test Data

Temperature:	25.8 °C	Humidity:	48.9 %		Atmospheric Pressure: 101 kPa	
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Please Refer to Appendix for Details.

Shenzhen Anbotek Compliance Laboratory Limited







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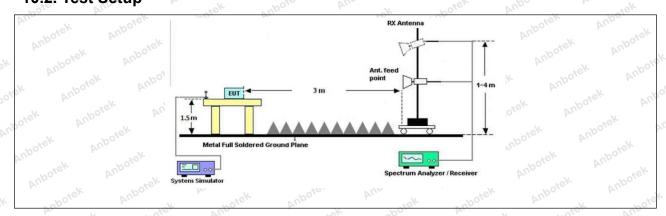
10. Band edge emissions (Radiated)

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 Aupotek Wilson	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. p. ciek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek anboter	1.705-30.0	30° , Albo	30
	30-88	100 **	3,ek nbore
T- Haboter And	88-216	150 **	3
Test Limit:	216-960	200 ***	3 botes And
	Above 960	500 Morek Ambo	3 rek ont
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or d hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.10 Andrew	Anbore. And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Aupoten Aup

10.1. EUT Operation

Operating Env	vironment: Anborek Anborek Anborek Anborek
Aupo, W.	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
ek Aupoter	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

10.2. Test Setup





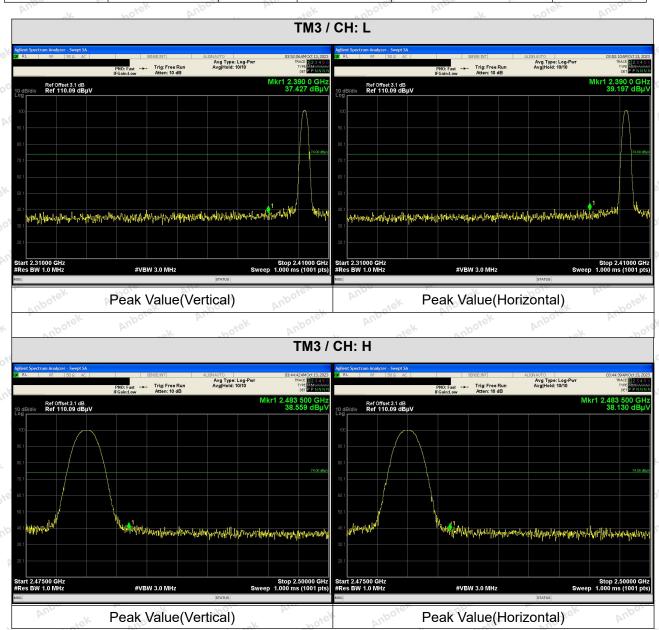




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10.3. Test Data

Temperature: 25.8 °C Humidity: 48.9 % 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
TMOVOLL	37.427	-2.26	35.165	54.00	Vertical	Pass
TM3 / CH: L	39.197	-2.26	36.935	54.00	Horizontal	Pass
TM2 (CII. II.)	38.559	-2.29	36.266	54.00	Vertical	Pass
TM3 / CH: H	38.130	-2.29	35.837	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 Method: Procedure:	ANSI C63.10-2020 section ANSI C63.10-2020 section	V 70° VIDO	Anboker Anbo
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng 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.
Anboren Anbo	Above 960	500 potek Anborr	3 rek
Test Limit:	88-216 216-960	150 ** 200 **	3 Andrew Andrew
Anbe L. Spotek	30-88	100 **	3 ek Anbore
ruek vupotek	1.705-30.0	30° dek 000°	30
botek Anbore	0.490-1.705	24000/F(kHz)	30
ote. Yun	0.009-0.490	2400/F(kHz)	300
k Aupotek Aupo.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also compecified in § 15.209(a)(see § 15.20	ly with the

11.1. EUT Operation

Operating Envi	ronment: Andrew Andrew Andrew Andrew Andrew Andrew Andrew
Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
otek Aupote	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

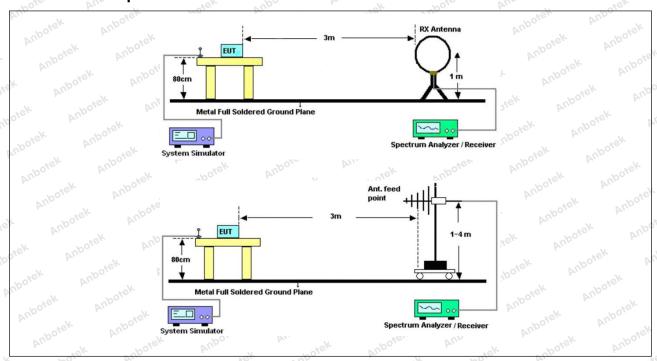






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11.2. Test Setup



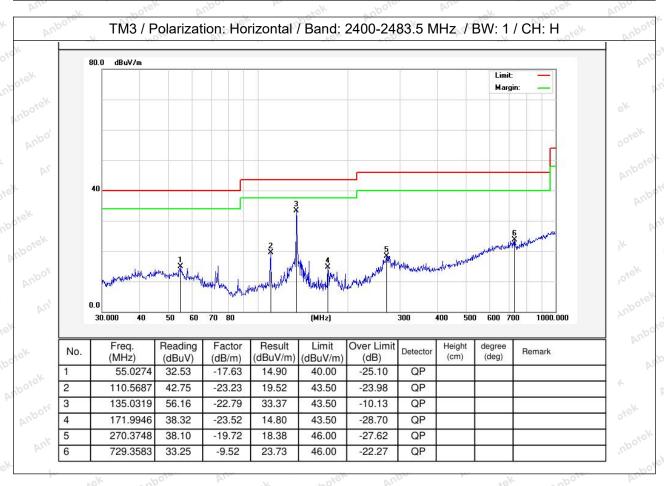




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11.3. Test Data

Temperature: 21.4 °C Humidity: 42 % Atmospheric Pressure: 101 kPa

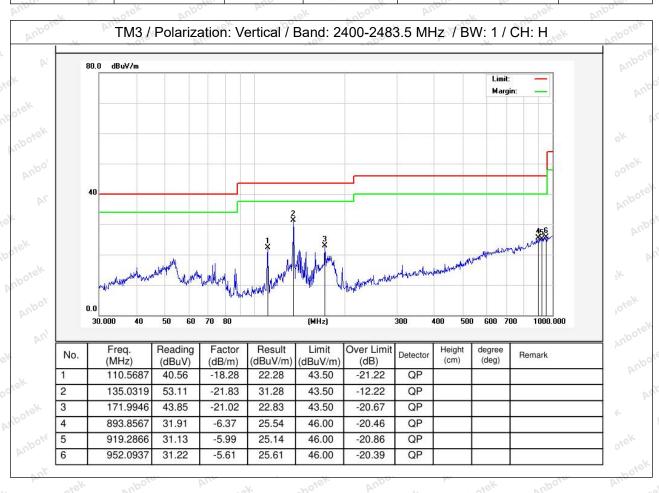






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Temperature: 21.4 °C Humidity: 42 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









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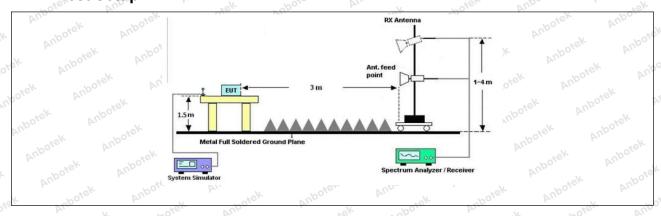
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ions which fall in the restricted ba comply with the radiated emission 5(c)).`	
otek Anbotek Ar	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
Arr. Ack abotek	1.705-30.0	30 nbors	30 And
	30-88	100 ** Anbo	3 rek noot
- Linbotek Anbo	88-216	150 **	3,000
Test Limit:	216-960	200 **	3 boyen buy
	Above 960	500 Morek	3 Pr.
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MH	aragraph (g), fundamental emissi ting under this section shall not b Hz, 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	16.6.4 knbox	Aupoter Au
Procedure:	ANSI C63.10-2020 section	6.6.4	abolek

12.1. EUT Operation

Operating Envi	ronment: Anborek Anborek Anborek Anborek Anborek
k Aupotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Test mode:	2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.
upotek Vupote	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

12.2. Test Setup









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12.3. Test Data

Temperature: 21.4 °C Humidity: 42 % Atmospheric Pre	ssure: 101 kPa	
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Vu.	hotek Anb		stek anboti	And	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	28.76	15.27	44.03	74.00	-29.97	Vertical
7206.00	29.65	18.09	47.74	74.00	-26.26	Vertical
9608.00	31.02	23.76	54.78	74.00	-19.22	Vertical
12010.00	Vupoje,* V	io.	abotek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*Sk	Aupo, ok	Potek b	74.00	otek onk	Vertical
4804.00	29.00	15.27	44.27	74.00	-29.73	Horizontal
7206.00	30.41	18.09	48.50	74.00	-25.50	Horizontal
9608.00	28.92	23.76	52.68	74.00	-21.32	Horizontal
12010.00	otek * Anbo	V. 20	iek Aupote	74.00	s abotek	Horizontal
14412.00	hotek*	boye. Yun	stek anbo	74.00	ok hote	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	18.14	15.27	33.41	54.00	-20.59	Vertical
7206.00	18.68	18.09	36.77	54.00	-17.23	Vertical
9608.00	20.04	23.76	43.80	54.00	-10.20	Vertical
12010.00	work.	Aupote. Au	iek .	54.00	. Br.	Vertical
14412.00	And *	, upotek	Aupo.	54.00	ipole. And	Vertical
4804.00	17.35	15.27	32.62	54.00	-21.38	Horizontal
7206.00	19.47	18.09	37.56	54.00	-16.44	Horizontal
9608.00	18.23	23.76	41.99	54.00	-12.01	Horizontal
12010.00	-16k *	otek Aupor	-K NO!	54.00	YUR FEK	Horizontal
14412.00	4 ×	indiek ant	oto And	54.00	ek Aupo	Horizontal



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				hotek	Anbor	*ek
			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	28.78	15.42	44.20	74.00	-29.80	Vertical
7323.00	29.50	18.02	47.52	74.00	-26.48	Vertical
9764.00	30.03	23.80	53.83	74.00	-20.17	Vertical
12205.00	ek * nbotek	Anbor	hotek	74.00	Aug	Vertical
14646.00	* *	ick Aupole	Pun Vie	74.00	Vupo	Vertical
4882.00	28.70	15.42	44.12	74.00	-29.88	Horizontal
7323.00	30.40	18.02	48.42	74.00	-25.58	Horizontal
9764.00	28.62	23.80	52.42	74.00	-21.58	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	17.87	15.42	33.29	54.00	-20.71	Vertical
7323.00	18.78	18.02	36.80	54.00	-17.20	Vertical
9764.00	19.90	23.80	43.70	54.00	-10.30	Vertical
12205.00	k ¥upor	N Diek	anboter	54.00	aborek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	k. potek	Vertical
4882.00	17.26	15.42	32.68	54.00	-21.32	Horizontal
7323.00	19.03	18.02	37.05	54.00	-16.95	Horizontal
9764.00	18.74	23.80	42.54	54.00	11.46 M	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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V. V.	Heli	"upo,	Dr.	hote.	AUD	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	29.05	15.58	44.63	74.00	-29.37 mo	Vertical
7440.00	29.51	17.93	47.44	74.00	-26.56	Vertical
9920.00	30.58	23.83	54.41	74.00	-19.59	Vertical
12400.00	* otek	anboyer	Anb	74.00	Anbor	Vertical
14880.00	* And	iek "potel	, Vupo,	74.00	Anbotet	Vertical
4960.00	28.77	15.58	44.35	74.00	-29.65	Horizontal
7440.00	30.43	17.93	48.36	74.00	-25.64	Horizontal
9920.00	29.30	23.83	53.13	74.00	-20.87	Horizontal
12400.00	Vup.*	abotek	Aupor P	74.00	rupoter Vut	Horizontal
14880.00	AC#DOLL	hotek	Aupoien	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.99	15.58	34.57	54.00	-19.43	Vertical
7440.00	19.79	17.93	37.72	54.00	-16.28	Vertical
9920.00	20.45	23.83	44.28	54.00	-9.72	Vertical ¹
12400.00	k * "potek	Aupo,	hotek	54.00	Aug	Vertical
14880.00	* * *	k Aupore	Aug	54.00	Vupo.	Vertical
4960.00	18.70	15.58 No ⁰	34.28	54.00	-19.72	Horizontal
7440.00	20.40	17.93	38.33 M	54.00	-15.67	Horizonta
9920.00	18.64	23.83	42.47	54.00 Amb	-11.53	Horizonta
12400.00	* tek	Anbores	Aur	54.00	po, bu	Horizonta
14880 00	An*	bolek	Anbe.	54 00	Vupote V	Horizontal

Remark:

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







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APPENDIX I -- TEST SETUP PHOTOGRAPH

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

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

