

18220WC40001801 FCC ID: 2ASEU-CONTROLLERV1 Report No.: Page 1 of 32

# FCC Test Report

**Applicant Ledlenser Corporation Ltd.** 

No.25, Yudong 1 Road, Dongcheng Town, Address

: Yangdong District, Yangjiang, GuangDong,

529931, China

**Product Name** Controller

: Jan. 23, 2024 Report Date

Compliance Lettory

Anbotek
Product Safety Compliance Laboratory Limited Shenzhen Anbotek \* Approved







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# TEST REPORT

Applicant : Ledlenser Corporation Ltd.

Manufacturer : Ledlenser GmbH & Co.KG

Product Name : Controller

Test Model No. : Controller

Reference Model No. : N/A

Trade Mark : 🌘 LEDLENSER

Rating(s) : Input: 12V~30VDC 3.33A max

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:	Jan. 04, 2024
Date of Test:	Jan. 04 ~ 16, 2024
	Anborek Anborek Anbores
	Nian xiu Chen
Prepared By:	upotek Aupo
k Anbore An Spotek Anborek Andrew	(Nianxiu Chen)
	Anbor Anbor An Morek
upotek Anbotek Anbotek Anbotek Anbotek	Todward pan
Approved & Authorized Signer:	ok botek Anbore An
	(Edward Pan)







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## **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 nborek An	Original Issue.	Jan. 23, 2024
37	W. Aupotek Aupotek	Anbotek Anbotek Anbotek	K obotek Anbotek Anb
(0	or Anbotek Anbotek	Anbotek Anbotek Anbot	tek anbotek Anbotek





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### 1. General Information

### 1.1. Client Information

	- 10	NV ATT ATT
Applicant	:	Ledlenser Corporation Ltd.
Address	:	No.25, Yudong 1 Road, Dongcheng Town, Yangdong District, Yangjiang, GuangDong, 529931, China
Manufacturer	:	Ledlenser GmbH & Co.KG
Address		Kronenstr.5-7,42699 Solingen,Germany
Factory	:	Ledlenser Corporation Ltd.
Address	:	No.25, Yudong 1 Road, Dongcheng Town, Yangdong District, Yangjiang, GuangDong, 529931, China

# 1.2. Description of Device (EUT)

- V		$\nu_0$ , $\nu_i$ ,
Product Name		Controller Anborek Anborek Anborek Anborek
Test Model No.	:	Controller Anborek Anborek Anborek Anborek
Reference Model No.	:	N/AAnbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	EDLENSER Anbores Andrew Anbores Anbores Anbores
Test Power Supply		AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A botek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	1.40 ek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type		GFSK Anbotek Anbotek Anbotek Anbotek Anbotek
Antenna Type		Ceramics Antenna
Antenna Gain(Peak)	:	2.7 dBi hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Remark:	90	The Auto Auto Auto Auto Auto Auto Auto Auto

- (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.
Adapter	Ledlenser GmbH & Co.KG	GQ120-300333-E3	Anborer Anbore

### 1.4. Operation channel list

#### Operation Band:

Operation E	Jana.		1.070	100	-OK	700	N/
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
An Ootek	2402	10	2422	20	2442	30	2462
1 <sub>Anbotek</sub>	2404	11 pote	2424	21	2444	31	2464
iek 2 Anbo	2406	12 no	2426	22	2446 AND	32 And	2466
notek 3 A	2408	13	2428	23	2448	33 P	2468
4	2410	14	2430	Anboi 24	2450	34	2470
5 tek	2412	And 15 tek	2432	25	2452	35	2472
6 botek	2414	16	2434	26	2454	36	2474
zk 7 nbo'	2416	17	10 2436 Anbote	27Anbox	2456	ek 37 Anbo	2476
8 N	ote 2418 And	18	2438	otek 28 Anh	2458	otel 38	2478
9	2420	19	2440	29	2460	39	2480

# 1.5. Description of Test Modes

7	Pretest Modes	Descriptions
2,	ek Anborek TM1 Anborek	Keep the EUT in continuously transmitting mode with GFSK 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
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB Anbotek Anbotek Anbotek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB. And Andrew Andrew Andrew
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.

### 1.7. Test Summary

Wer up k hore Arr	"SIL "UP"	Y**
Test Items	Test Modes	Status
Antenna requirement	otek Anby Otek	ibotek P Ar
Conducted Emission at AC power line	Mode1	anbot P
Occupied Bandwidth	Mode1	AU Prek
Maximum Conducted Output Power	Mode1	Papotek
Power Spectral Density	Mode1	ek P Anbot
Emissions in non-restricted frequency bands	Mode1	botek P An
Band edge emissions (Radiated)	Mode1	A rode
Emissions in frequency bands (below 1GHz)	Mode1	N. Pek
Emissions in frequency bands (above 1GHz)	Mode1	Photek
Note: P: Pass N: N/A, not applicable	tek Aupotek Aupot	ek Anbor





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#### 1.8. Description of Test Facility

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

#### FCC-Registration No.: 434132

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

#### ISED-Registration No.: 8058A

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

#### **Test Location**

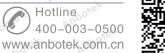
Shenzhen Anbotek Compliance Laboratory Limited.

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

#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.







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### 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	tek Aupote	Anbo	tek unbotek	Anboro
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
nb 2 <sup>ek</sup>	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
A300	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4 <sup>Anl</sup>	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A Anbo	hotek / Anbot	ok Aupotek

Occupied Bandwidth

Maximum Conducted Output Power

**Power Spectral Density** 

Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
A.n.b.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	potekN/A Anto	2023-10-16	2024-10-15
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	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



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	edge emissions (Ra sions in frequency ba		Aupo.	k pojek	. Aupore.	Vur.
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	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
10 3ek	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
A4008	EMI Test Software EZ-EMC	SHURPLE 100 TEN	N/A	N/A	Aybo, hotek	Andotek
5An	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
7.k	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	sions in frequency ba	ands (below 1GHz)			ek abotek	
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
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4 4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A Anbox	otek N/A	otek / Anbote	ek Anbe





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### 2. Antenna requirement

Anbotek Anbotek	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
Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
Anbo	of an antenna that uses a unique coupling to the intentional radiator shall be
otek Anboter An	considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a **Ceramics Antenna** which permanently attached, and the best case gain of the antenna is **2.7 dBi**. It complies with the standard requirement.





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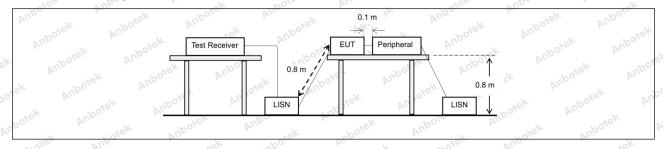
# 3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha y frequency or frequencie exceed the limits in the fo	nected to the at is conducted as, within the collowing table, as			
arek upojek	Frequency of emission (MHz)	Conducted limit (dBµV)	Sk Wipp			
Aupo, W. Siek	Vupote, Vup	Quasi-peak	Average			
- hotek Anbo	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5 m	56	46			
Y Anbor Air	5-30 Andrew Andrew	60 ACC	50			
tek Anbotek Anb	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Wupp stek "Upotek	Anbore A			
Procedure:	Refer to ANSI C63.10-2020 sectio line conducted emissions from unl		od for ac power-			

# 3.1. EUT Operation

e\	Operating Envir	onment:	Anboten	Aup	anbotek	Aupor	An. hotek	Aupor
-0	Test mode:	1: TX mode:	Keep the El	JT in continuou	ısly transmit	ting mode wi	ith GFSK	
)°	rest mode.	modulation.						Dr.

### 3.2. Test Setup





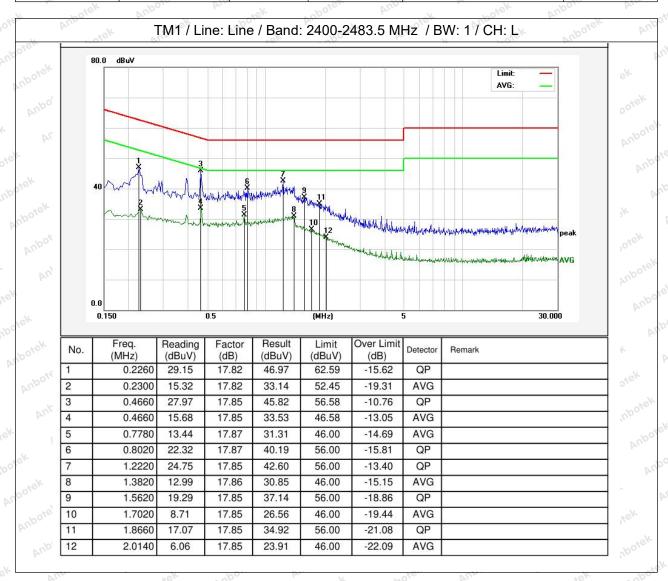
Hotline



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#### 3.3. Test Data

Temperature:	19.8 °C	b., .	Humidity:	61 %	VUD	Atmospheric Pressure:	101 kPa	, del
	1010	-/0	O- 1 - 11 - 11 - 17   10 - 1	V		No turne of Marie 1 . cood and 1		700.



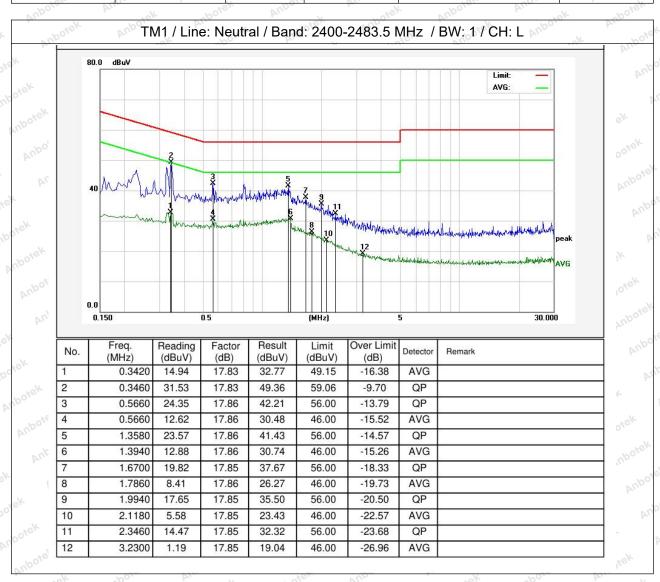


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Temperature: 19.8 °C Humidity: 61 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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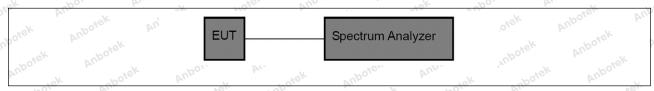
# 4. Occupied Bandwidth

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

# 4.1. EUT Operation

Operating Environment:	anboiek	Anbor	Pirek	Anboier	Aug	"upotek
Test mode: 1: TX mo	~O.	he EUT in co	ontinuously tra	nsmitting mo	de with GFSK	Anbotek

### 4.2. Test Setup



#### 4.3. Test Data

Temperature:	23.7 °C	Humidity:	43 %	Atmospheric Pressure: 101 kPa
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Please Refer to Appendix for Details.









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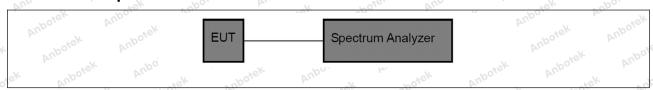
# 5. Maximum Conducted Output Power

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

### 5.1. EUT Operation

Operating Envi	ronment:	And	anborek	Aupor "el	, spotek	Anboter	ALID
Test mode:	1: TX mode: modulation.		T in continuo	usly transmi	tting mode with	GFSK	ek Vi

### 5.2. Test Setup



#### 5.3. Test Data

	Temperature:	23.7 °C	-botek	Humidity:	43 %	niek.	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



Hotline



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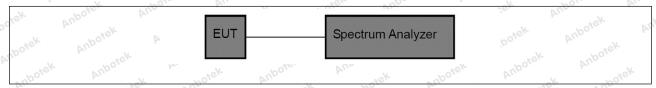
# 6. Power Spectral Density

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

# 6.1. EUT Operation

Operating Envi	ronment:	n. abotek	Anbore	Vur	Anbotek	Aupo.
Test mode:	1: TX mode: Keep modulation.	the EUT in co	ntinuously tra	ansmitting mod	e with GFSK	Anbor

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature: 23.7 °C	Humidity: 43 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



Hotline

400-003-0500



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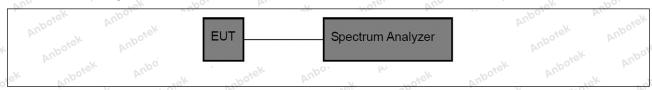
# 7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:  Anborek  Anborek  Anborek  Anborek  Anborek  Anborek  Anborek  Anborek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

### 7.1. EUT Operation

Operating Envi	ronment:	Vup Jek	nbotek	Anbore	hotek.	Anbore	VUP
Test mode:	1: TX mode: modulation.	Keep the EU	Γ in continuoι	usly transmitt	ting mode with	GFSK Noote N	ek Vi

### 7.2. Test Setup



#### 7.3. Test Data

Temperature: 23.7 °C Humidity: 43 %	Atmospheric Pressure: 101 kPa
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Please Refer to Appendix for Details.





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# 8. Band edge emissions (Radiated)

- Ole Ville	-ak -abo	N. V. V. VIII.	-24					
Test Requirement:	restricted bands, as defined	In addition, radiated emissions I in § 15.205(a), must also comp	ly with the					
k kotek Anbor	radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
otek Anbotek An	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
shorek Anbo	0.009-0.490	2400/F(kHz)	300					
All sek aboten	0.490-1.705	24000/F(kHz)	30					
Vupo, Viek	1.705-30.0	30 hotek Anbo	30					
abotek Anbo	30-88	100 **	3					
All tek ambore	88-216	150 **	3/bores Anto					
Yupo, N.	216-960	200 **	3 nek anti					
rek aborek And	Above 960	500	3 And					
Test Limit:	** 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.							
rek Anbotek Anb	The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis	measurements uency bands 9– sion limits in					
ibotek Anbore A	these three bands are base detector.	ed on measurements employing	an average					
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek					
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Anborek Anbo					

# 8.1. EUT Operation

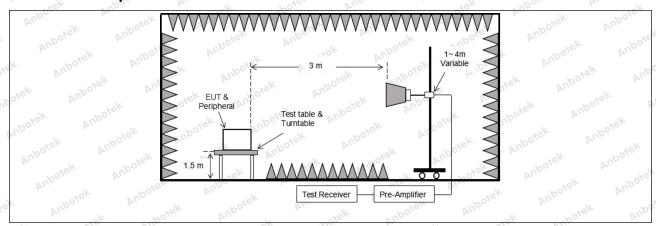
Operating Envir	ronment:	Vus Polsk	Anbotek	Anbourek	abotek	Aupore	Du
Test mode:	1: TX mode: K modulation.	eep the EUT i	n continuous	ly transmitting	mode with G	FSK Anbore	3 K





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### 8.2. Test Setup





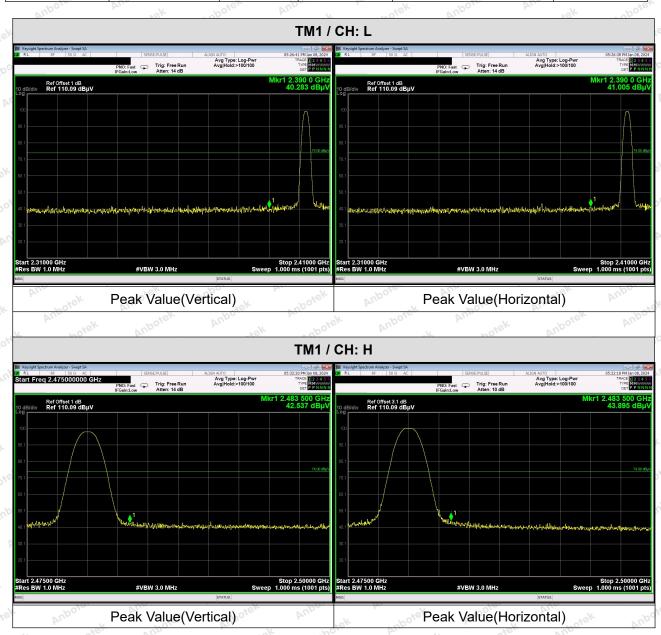


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#### 8.3. Test Data

Temperature: 23.7 °C Humidity: 43 % Atmospheric Pressure: 101 kPa



Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







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# 9. Emissions in frequency bands (below 1GHz)

Anbore Ans	- 1 10 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	And And And	1.04
T Dotek unbote		In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
k boiek Anbe	- 12 COV - 1711 -	ecified in § 15.209(a)(see § 15.2	05(c)).
Ar. tek	Frequency (MHz)	Field strength	Measurement
otek Anbo	stek Anbote. And	(microvolts/meter)	distance
ek spotek	Allon L. March	bote Arr spoten	(meters)
Aupore Arr	0.009-0.490	2400/F(kHz)	300
botek Anbor	0.490-1.705	24000/F(kHz)	30
And botek	1.705-30.0	30 pore Ann	30
Anbore. Ant	30-88	100 ** A	3
Ciek Aupore	88-216	150 **	3,00°C ATT
And	216-960	200 **	3 sek pro
tek anboten Ant	Above 960	500	3 And
Test Limit:	** Except as provided in pa	ragraph (g), fundamental emissi	ons from
abotek Anbe		ing under this section shall not b	
arek upoten		z, 76-88 MHz, 174-216 MHz or	
Aupo, W.		hese frequency bands is permitt	ed under other
botek Anbo	sections of this part, e.g., §		bo h niek
Ann abote		e, the tighter limit applies at the b	
Aupor Air	3/6"	in the above table are based on	10.
ok botek Anb		beak detector except for the freq	
And And	W	above 1000 MHz. Radiated emis	W. C.
anbore A	. 07	ed on measurements employing	an average
Was In the Mark	detector.	shorter And	sk aupore
Toot Mothod:	ANSI C63.10-2020 section	6.6.4	ak botek
Test Method:	KDB 558074 D01 15.247 M	leas Guidance v05r02	of Yun
Procedure:	ANSI C63.10-2020 section	6.6.4	Anbotek Anbote

# 9.1. EUT Operation

Operating Envir	ronment:	Vus Polsk	Anbotek	Anbourek	abotek	Aupore	Du
Test mode:	1: TX mode: K modulation.	eep the EUT i	n continuous	ly transmitting	mode with G	FSK Anbore	3/K

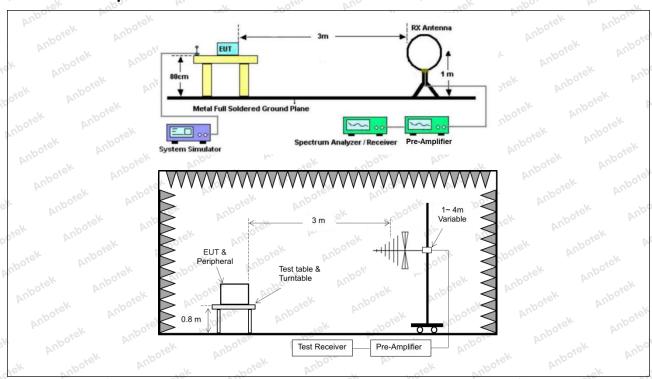


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### 9.2. Test Setup





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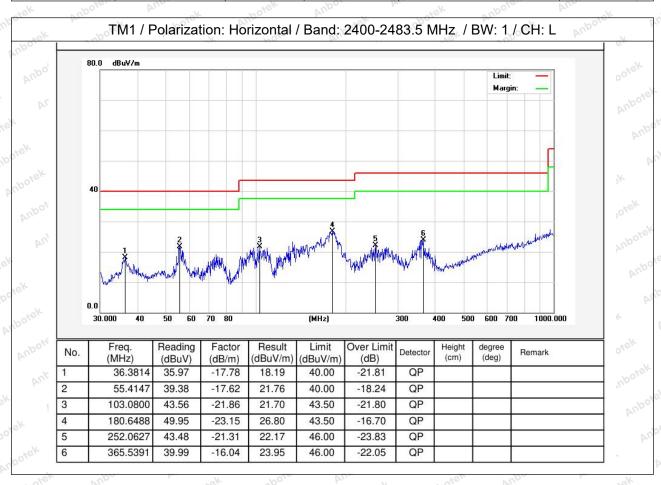


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#### 9.3. Test Data

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

e	Temperature:	24.3 °C	Humidity:	52.3 %	Atmospheric Pressure:	101 kPa	100
	· '	100°	27.	100	\V	1001	



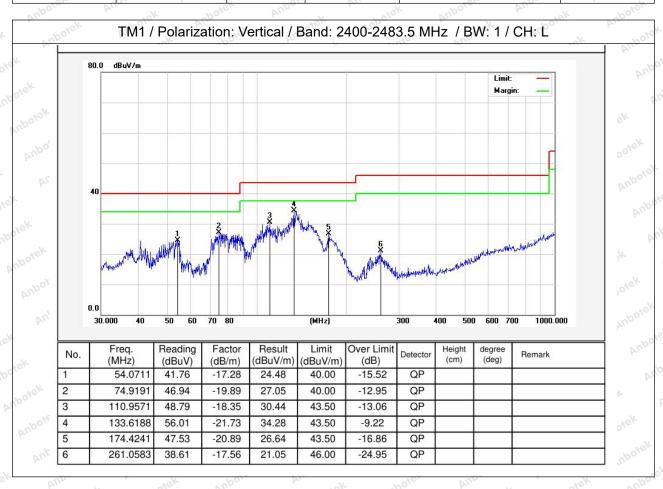




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Temperature: 24.3 °C Humidity: 52.3 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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# 10. Emissions in frequency bands (above 1GHz)

Antore And	In addition, radiated emissi	ons which fall in the restricted ba	ands as defined
Test Requirement:		omply with the radiated emission	
k hotek Anbot	in § 15.209(a)(see § 15.205		Anbore. And
Vunna 18 M	Frequency (MHz)	Field strength	Measurement
Hotek Anbors Air	otek Aupoten Aup	(microvolts/meter)	distance
, obotek	Npo. K. Nok	pose Aug Poses	(meters)
Anbore And	0.009-0.490	2400/F(kHz)	300
hotek Anbore	0.490-1.705	24000/F(kHz)	30
And botek	1.705-30.0	30 pore Ann	30×
Anbore Ant	30-88	100 ** A	3
k potek Anbore	88-216	150 **	3/pore Arriv
Anti	216-960	200 **	3 notek pho
itek napote, And	Above 960	500	3 Ans
Test Limit:		ragraph (g), fundamental emissi	
aboren Anti		ing under this section shall not b	
otek Supoter		z, 76-88 MHz, 174-216 MHz or 4	
Anbo		hese frequency bands is permitt	ed under other
abotek Anbo	sections of this part, e.g., §		or hotek
Air. stek anbote		e, the tighter limit applies at the b	
Anbo. A.	20°	in the above table are based on	10.
rek spotek Aup		beak detector except for the freq	
dr. VII.	WO	above 1000 MHz. Radiated emis	No.
hotek Anbo, A	. 01	ed on measurements employing	an average
11 St. Spotek	detector.	Anbore Ans bott	The Pupo
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek
D.Anbore And	Pur Yun	iek vipo, k.	iek "nbołek
Procedure:	ANSI C63.10-2020 section	0.0.4	Jupo, W.

# 10.1. EUT Operation

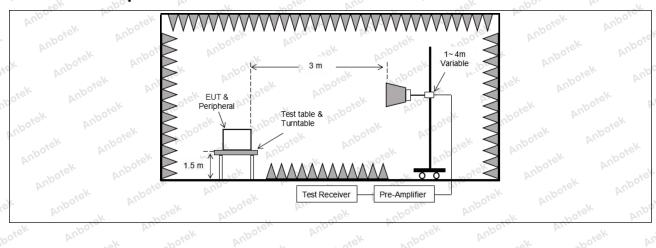
Operating Envir	ronment:	Vus Polsk	Anbotek	Anbourek	abotek	Aupore	Du
Test mode:	1: TX mode: K modulation.	eep the EUT i	n continuous	ly transmitting	mode with G	FSK Anbore	3/K





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### 10.2. Test Setup







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#### 10.3. Test Data

Temperature: 24.3 °C Humidity: 52.3 % Atmospheric	Pressure: 101 kPa
---------------------------------------------------	-------------------

VUL	*6/	Ypo, K.	TM4 / OLL: I	ofe. And	le de la companya de	sk bo
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.60	15.27	43.87	74.00	-30.13	Vertical
7206.00	28.64	18.09	46.73	74.00	-27.27	Vertical
9608.00	29.54	23.76	53.30	74.00	-20.70	Vertical
12010.00	200*2K	Anbore	"Olek	74.00	-c//-	Vertical
14412.00	* tek	Aupole	Anb	74.00	'upor Bu	Vertical
4804.00	28.26	15.27	43.53	74.00	-30.47	Horizontal
7206.00	29.22	18.09	47.31	74.00	-26.69	Horizontal
9608.00	otek 28.18 Mbo	23.76	51.94	74.00	-22.06	Horizontal
12010.00	"Otek* on	DOJEH VUDO	70° × 10°	74.00	hi.	Horizontal
14412.00	AUD *	abotek Ar	po. A.	74.00	View VUP	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.87	15.27	32.14	54.00	-21.86	Vertical
7206.00	17.69	18.09	35.78	54.00	-18.22	Vertical
9608.00	19.01	23.76	42.77	54.00	-11.23	Vertical
12010.00	And *	boick	Anbore Ar	54.00	Poter Vup.	Vertical
14412.00	Au/ao	Pit.	Aupoleic	54.00	abotek A	Vertical
4804.00	16.59	15.27	31.86	54.00	-22.14	Horizontal
7206.00	18.25 hote	18.09	36.34	54.00	-17.66	Horizontal
9608.00	17.69	23.76	41.45	54.00	-12.55	Horizontal
12010.00	Upore * Vu	otek Anl	otek Aupo	54.00	ek Aupore	Horizontal
14412.00	Vupoje*	'Up	hotek An	54.00	iek anboi	Horizontal



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			ГМ1 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.15	15.42	43.57	74.00	-30.43	Vertical
7320.00	28.61	18.02	46.63	74.00	-27.37	Vertical
9760.00	29.04	23.80	52.84	74.00	-21.16	Vertical
12200.00	* *	ick Vupoje,	Vupe	74.00	Aupor	Vertical
14640.00	boyer * Yup	yek ab	rek Anbore	74.00	k Anboien	Vertical
4880.00	28.07	15.42	43.49	74.00	-30.51 hot	Horizontal
7320.00	29.09	18.02	47.11	74.00	-26.89	Horizontal
9760.00	27.90	23.80	51.70	74.00	-22.30	Horizontal
12200.00	AG.	botek	Anbore	74.00	Anbotek	Horizontal
14640.00	*Aupore	L. Diek	Aupoles.	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.96	15.42	32.38	54.00	-21.62	Vertical
7320.00	17.55	18.02	35.57	54.00	-18.43	Vertical
9760.00	18.86	23.80	42.66	54.00	-11.34	Vertical
12200.00	tek * abote	Anbo.	ok hojek	54.00	And	Vertical
14640.00	* *	otek Anbot	And	54.00	Anbo	Vertical
4880.00	16.70	15.42	32.12	54.00	-21.88	Horizontal
7320.00	18.60	18.02	36.62	54.00	501e¥17.38 And	Horizontal
9760.00	17.99	23.80	41.79	54.00	-12.21	Horizontal
12200.00	* * hotel	Anbores	Vur Stek	54.00	Aupo. b	Horizontal
14640.00	ĎU.	k polek	Aupo.	54.00	Vupo <sub>te</sub> .	Horizontal





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		, otek				
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.28	15.58	43.86	74.00	-30.14	Vertical
7440.00	28.77	17.93	46.70	74.00	-27.30	Vertical
9920.00	29.74	23.83	53.57	74.00	-20.43	Vertical
12400.00	Sk * Vupo	ek spoiel	Anbore	74.00	Anbotek	Vertical
14880.00	potek * Anbo	bit.	itek Anbote	74.00	k shotek	Vertical
4960.00	28.21	15.58	43.79	74.00	-30.21	Horizontal
7440.00	29.30	17.93	47.23	74.00	-26.77	Horizontal
9920.00	28.28	23.83	52.11	74.00	-21.89	Horizontal
12400.00	Antoro	All	Aupoier	74.00	botek	Horizontal
14880.00	sk * hotek	YUpo "GK	abotek	74.00	W. Potek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.08	15.58	33.66	54.00	-20.34	Vertical
7440.00	18.82	17.93	36.75	54.00	-17.25	Vertical
9920.00	19.51	23.83	43.34	54.00	-10.66	Vertical
12400.00	***************************************	anboter	And	54.00	Aupor	Vertical
14880.00	Ole, * VUR	iek aboi	sk Vupo,	54.00	Anbore	Vertical
4960.00	17.88 And	15.58	otek 33.46 Anbo	54.00	-20.54	Horizontal
7440.00	19.40	17.93	37.33	54.00	-16.67	Horizontal
9920.00	18.14	23.83	41.97	54.00	-12.03	Horizontal
12400.00	VU.*	abotek	Aupo.	54.00	Anbote. A	Horizontal
14880.00	*upo,	k hotek	Vupoler	54.00	Spoick	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.







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### **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph RF

### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

#### **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

**End of Report** 



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