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Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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# FCC Test Report Anbotek

Applicant

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### DONGGUAN TOGRAN ELECTRONICS **TECHNOLOGY CO., LTD.**

Address

No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China

Anbotek

Product Name

2.4Ghz Split Ergo Keyboard with Trackball

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**Report Date** 

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Aug. 26, 2024 ,bote

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, 💉 Email: service@anbotek.com Tel:(86)0755-26066440

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,botek Hotline 6 400-003-0500 www.anbotek.com<sup>o</sup> Anb

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Applicant

Manufacturer

**Product Name** 

Model No.

Trade Mark

Rating(s)

Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK Page 4 of 35

# **TEST REPORT**

DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

2.4Ghz Split Ergo Keyboard with Trackball

TK50FG, X9RFBLERGBAL

⇒ N/A

Input: 5V— 1A Battery Capacity: DC 3.7V, 2000mAh

Test Standard(s)

47 CFR Part 15.247 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:

Date of Test:

Pup

Prepared By:

Jul. 30, 2024

Jul. 30, 2024 to Aug. 16, 2024

Nian Xiu Chen

(Nianxiu Chen)

Idward pan

(Edward Pan)

#### Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer:

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# Anbotek Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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### **Revision History**

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potek		Description	Issued Date
Anbot		Original Issue.	Aug. 26, 2024
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# 1. General Information

### 1.1. Client Information

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Product Safety

Applicant	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO., LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China
Manufacturer	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO., LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China
Factory	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China

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### 1.2. Description of Device (EUT)

Product Name	:	2.4Ghz Split Ergo Keyboard with Trackball
Model No.	÷	TK50FG, X9RFBLERGBAL (Note: All samples are the same except the model number, so we prepare "TK50FG" for test only.)
Trade Mark	:	N/A Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek
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 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek

#### **RF Specification**

Operation Frequency	:	2403MHz to 2480MHz
Number of Channel	:	e16 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	"GFŠK Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek
Antenna Type	:	PCB Antenna Andrek Andrek Andrek Andrek Andrek Andrek Andrek
Antenna Gain(Peak)	:	-2.81dBi Andotek Andotek Andotek Andotek Andotek Andotek Andotek
Domark:	Ofer.	1000 X 1000 X 1000

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.

#### Shenzhen Anbotek Compliance Laboratory Limited

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#### Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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### 1.3. Auxiliary Equipment Used During Test

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

### 1.4. Operation channel list

Operation Band:

0	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
4	1 Anbote	2403	5	1001e 2422	9 9	2441	Anto13	2463
tel	2	oo <sup>tek</sup> 2407 Ant	6	2428	Anbolo	2445	14°tek	2466
	tek3	2414	Anboic 7	2436	A 19 101	2453	15 Anbot	2473
VUD	4. K	2419	Ante Bria	2439	12 noote	2459	tek 16 An	o <sup>otek</sup> 2480 <sup>knk</sup>

### 1.5. Description of Test Modes

F	Pretest Modes		Descriptions	
- eK	TM1	Aupoten	Keep the EUT in continuously transmitting mode (non-hopping).	0000
1000 PK	TM2	Anbo	Keep the EUT in continuously transmitting mode (hopping).	Put

### 1.6. Measurement Uncertainty

Uncertainty
3.4dB
925Hz <sup>k</sup> Antonia Antonia Antonia Antonia
0.76dB
1.24dB hotek Andreak A
1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
3.53dB
Horizontal: 3.92dB; Vertical: 4.52dB

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

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Product Safety

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Test Items	Test Modes	Status
Antenna requirement	sotek / Anbotek	A <sup>nbo</sup> P
Conducted Emission at AC power line	Mode1 Mode1	Pupor
Occupied Bandwidth	Mode1	P Ano
Maximum Conducted Output Power	Mode1	p <sup>otek</sup> P
Channel Separation	Mode2	Anbolek
Number of Hopping Frequencies	Mode2	AnBrek
Dwell Time	Mode2	PAnbote
Emissions in non-restricted frequency bands	Mode1,2	ek P Ant
Band edge emissions (Radiated)	Mode1	Notek P
Emissions in frequency bands (below 1GHz)	Mode1	P
Emissions in frequency bands (above 1GHz)	Mode1	And P tek
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	Anboth

### 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

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Shenzhen Anbotek Compliance Laboratory Limited. Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

#### Shenzhen Anbotek Compliance Laboratory Limited

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### 1.9. Disclaimer

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- 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.

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- 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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Cond	lucted Emission at A	C power line	Anborer	And	Anbotek	Anbo
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
lek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-0
200	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-0
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	And	Aupst
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-1
Emis Occu Vaxiı Chan	l Time sions in non-restricte pied Bandwidth mum Conducted Out nel Separation per of Hopping Frequ	put Power	Anbotek An	Anbotek An Anbotek	Anbotek Anbo Anbotek A	Anbotek Anbotek
Emis Occu Maxii Chan Numl	sions in non-restricte pied Bandwidth mum Conducted Out nel Separation ber of Hopping Frequ	put Power iencies	Anbotek Anbotek	Anbolisk Anbolisk	Anbotek Anbotek	Anbotek Anbo
Emis Occu Vaxiı Chan	sions in non-restricte pied Bandwidth mum Conducted Out nel Separation	put Power	12		nbolek f	Cal.Due
Emis Occu Maxii Chan Numl	sions in non-restricte pied Bandwidth mum Conducted Out nel Separation ber of Hopping Frequ Equipment Constant Temperature	put Power lencies Manufacturer	Model No.	Anbotek Anbotek Serial No.	Anbolek Anbolek Last Cal.	Cal.Due 2024-1
Emis Occu Maxir Chan Numl Item	sions in non-restricter pied Bandwidth mum Conducted Out nel Separation ber of Hopping Frequ Equipment Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer	put Power lencies Manufacturer ZHONGJIAN	Model No. ZJ- KHWS80B	Serial No. N/A 1804D360 510 102150	Last Cal. 2023-10-16	Cal.Due 2024-1 2024-1
Emis Occu Maxii Chan Numl Item 1 2	sions in non-restricter pied Bandwidth mum Conducted Out inel Separation ber of Hopping Frequ Equipment Constant Temperature Humidity Chamber DC Power Supply Spectrum	put Power Iencies Manufacturer ZHONGJIAN IVYTECH	Model No. ZJ- KHWS80B IV3605	Serial No. N/A 1804D360 510	Last Cal. 2023-10-16 2023-10-20	Cal.Due 2024-1 2024-1 2025-0
Emis Occu Maxii Chan Numl Item 1 2 3	sions in non-restricter pied Bandwidth mum Conducted Out and Separation ber of Hopping Freque Equipment Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum	put Power Iencies Manufacturer ZHONGJIAN IVYTECH Rohde & Schwarz	Model No. ZJ- KHWS80B IV3605 FSV40-N	Serial No. N/A 1804D360 510 102150 MY505318	Last Cal. 2023-10-16 2023-10-20 2024-05-06	Cal.Due 2024-1 2025-0 2025-0 2024-1

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### 1.10. Test Equipment List

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#### Anbotek Report No.:1812C40005312501 botek FCC ID: 2AGLG-TK50FG-BK Anbot

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Anbote	K Anbor	An abotek Anb	pter Anu	wotek	Anbotek Ar	ipor r	nbotek
	edge emissions (Ra sions in frequency ba		Aupoten A	nbotek	Anborek	Anbo	Anbol
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	A
<sub>te</sub> ⊁1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	4
nb 28K	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	otek
3,00	<ul> <li>Double Ridged Horn Antenna</li> </ul>	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15	Anbotek
4 🔊	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbore	Amanbotek	Anbc
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11	0
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	t
Anbola 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	ore otel
Ann	k holek	Anbo	Nek	Anbore	All	aboten	AUDO

Emis	sions in frequency b	And	Anbotek	Anbo	h. botek	P	
ove <sup>k</sup> ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	I
1910 tot	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	×
21	Pre-amplifier	SONOMA	310N <sup>1000</sup>	186860	2024-01-17	2025-01-16	ootek
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	Anb
* 4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11	
o <sup>tex</sup> 5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A.ootek	Aupore	ek Anbotek	1
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### 2. Antenna requirement

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otek.	2. Antenna requi	irement	Anbotek	Anbornotek	Anbotek	Anbote.	Ann
Anbotek	Anbotek Anbo	Refer to 47 CFR F ensure that no and	tenna other tha	n that furnishe	d by the respo	nsible party	4
Anb	Test Requirement:	shall be used with of an antenna that considered sufficie	t uses a unique	coupling to the	e intentional ra	diator shall be	

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### 2.1. Conclusion

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The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is -2.81dBi. It complies with the standard requirement. Anbotek Anbote AND

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# ,nbotel 3. Conducted Emission at AC power line

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tek Anbotek Anb	Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator public utility (AC) power line, the ra	that is designed to be con	nected to the
Test Requirement:	back onto the AC power line on an		
aboten And	band 150 kHz to 30 MHz, shall not		
tek nboten	measured using a 50 $\mu$ H/50 ohms	line impedance stabilizati	on network
Anbor A.	(LISN). Moter And	wolek And	alek.
hotek Anbo	Frequency of emission (MHz)	Conducted limit (dBµV)	And
And	otek Anbo	Quasi-peak	Average
- Andrew An	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 AM 100 100 100 100 100 100 100 100 100 10	56	46 <sup>K</sup> Anbo
otek Anbo	5-30 et have an	60 (bole )	50
atek Anbotek	*Decreases with the logarithm of the	ne frequency.	Anbote. An
Test Method:	ANSI C63.10-2020 section 6.2	Anboten Ano	Anbotek
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli	n 6.2, standard test metho icensed wireless devices	od for ac power-

### 3.1. EUT Operation

Operating Envi	ronment:	. e.K	aboten	And	Lotek	Anbo
Test mode:	W.G	-Hopping): K	eep the EUT	in continuously	transmitting m	ode (non-
AT DOLO	hopping).	npolon	And	~otek	AUPO	- Yok
3.2. Test Setup		An	Anboten	And	Anbotek	Anbo

### 3.2. Test Setup

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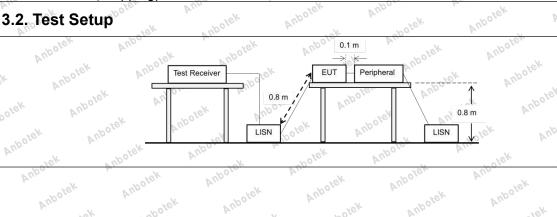
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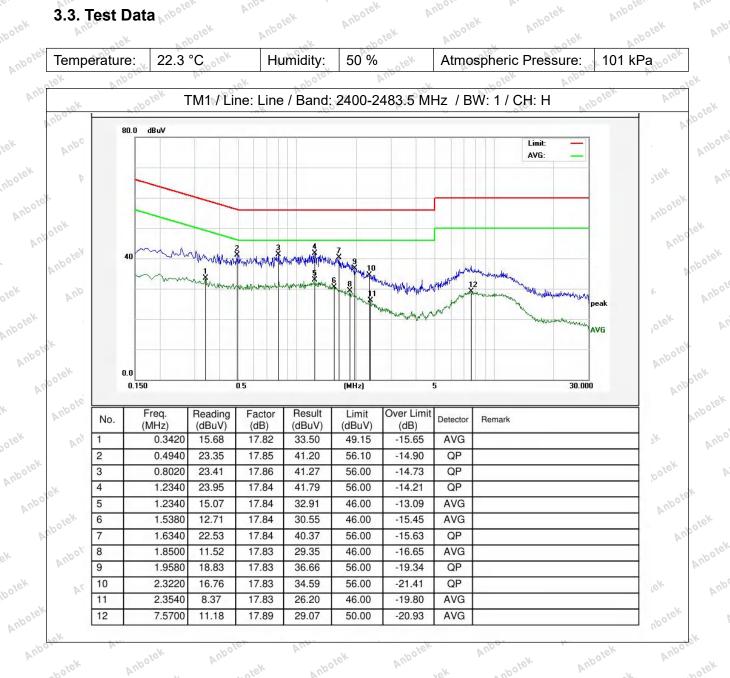
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### 3.3. Test Data



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# nbotek Product Safety

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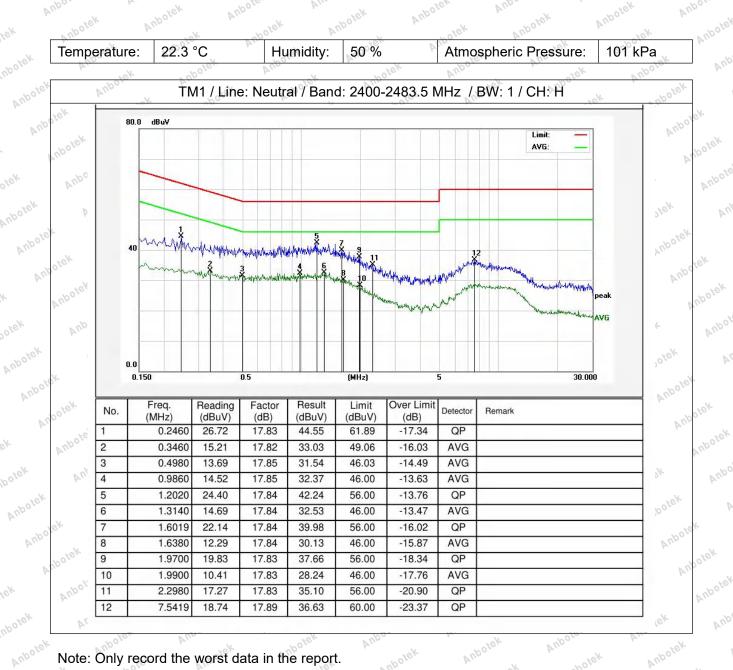
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Note: Only record the worst data in the report.

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# Anbotek 4. Occupied Bandwidth

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Test Requirement:	47 CFR 15.247(a)(1)
ek 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
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
Anbotek Anbote	may otherwise be specified in the specific rule section under which the
Anbo	equipment operates, is contained within the frequency band designated in
Anboten And	the rule section under which the equipment is operated.
Tant Marborek An	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test KDB 558074 D01 15.247 Meas Guidance v05r02
tek Aupo.	"A "Odd As "
tek unboten	The occupied bandwidth is the frequency bandwidth such that, below its
nbu. A. Alek	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
abotek Anbu	procedure shall be used for measuring 99% power bandwidth:
A" AN noot	a) The instrument center frequency is set to the nominal EUT channel center
Anbore An.	frequency. The frequency span for the spectrum analyzer shall be between
Lotek Ar	1.5 times and 5.0 times the OBW.
And	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
tek holen	5% of the OBW, and VBW shall be at least three times the RBW, unless
o. A.	otherwise specified by the applicable requirement.
botek Anbo	c) Set the reference level of the instrument as required, keeping the signal
And botek	from exceeding the maximum input mixer level for linear operation. In
Anbore. And	general, the peak of the spectral envelope shall be more than [10 log
h arbo	(OBW/RBW)] below the reference level. Specific guidance is given in
Ano	4.1.6.2. And
K nboten A	d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range.
otek Anbo	e) Video averaging is not permitted. Where practical, a sample detection and
ok solek	single sweep mode shall be used. Otherwise, peak detection and max-hold
Anbore. And	mode (until the trace stabilizes) shall be used.
notek Anbore.	f) Use the 99% power bandwidth function of the instrument (if available) and
Ano	report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the
nbotek Anb	trace data points are recovered and directly summed in linear power terms.
P.	The recovered amplitude data points, beginning at the lowest frequency, are
ek Aupor	placed in a running sum until 0.5% of the total is reached; that frequency is
k hotek	recorded as the lower frequency. The process is repeated until 99.5% of the
boten Ann	total is reached; that frequency is recorded as the upper frequency. The 99%
stek suboten	power bandwidth is the difference between these two frequencies.
Anbo	h) The occupied bandwidth shall be reported by providing spectral plot(s) of
abotek Anbo.	the measuring instrument display; the plot axes and the scale units per
And hotek Ant	We defend a bound of the standard of the standard of the second bound and the second states the
Anbore An	the plot(s).

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### 4.1. EUT Operation

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4.1. EUT Ope	eration	Anbore	Anbotek	Anboten	Anbotek	Anbotek
Operating Envir	onment:	An	Aupoler	Anv	k nbotek	Anbo
Test mode:	1: TX (Non- hopping).	Hopping): Kee	ep the EUT in a	continuously tra	ansmitting mod	e (non- Anbore
4.2. Test Setu	up Anb	or p.	nbotek A	upote. An	abotek A	hbotek Ant

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### 4.2. Test Setup

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т	Spectrum	Analyzer
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### 4.3. Test Data

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4.3. Test Data	a Aupoten	Anton	Anbotek	Anbo.	Anbote	sk An	pote
Temperature:	25.5 °C	Humidity: 47 %	Anbore	Atmospheric P	ressure:	101 kPa	Ano
Please Refer to	Appendix for Det	ails.* Anbotek	Anbo	ster Anu	potek	Anbotek	Anbo

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#### Please Refer to Appendix for Details.

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#### Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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# 5. Maximum Conducted Output Power

Toot Doguiromont:	47 CED 15 247(b)(1)
Test Requirement:	47 CFR 15.247(b)(1)
K bolek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in
And And	the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping
Test Limit:	channels, and all frequency hopping systems in the 5725-5850 MHz band: 1
upor A.	watt. For all other frequency hopping systems in the 2400-2483.5 MHz band:
Lotek Anbor	0.125 watts.
-Am wk hote	ANSI C63.10-2020, section 7.8.5
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
A.	1000 Har 100
Anboy A	This is an RF-conducted test to evaluate maximum peak output power. Use
k notek	a direct connection between the antenna port of the unlicensed wireless
oter Any	device and the spectrum analyzer, through suitable attenuation. Frequency
tek nboter	hopping shall be disabled for this test. Use the following spectrum analyzer
Anbor A.	settings:
hotek Anbor	a) Span: Approximately five times the 20 dB bandwidth, centered on a
And	hopping channel.
aboten And	b) RBW > 20 dB bandwidth of the emission being measured.
A	c) VBW ≥ RBW.
K ANDOL A.	d) Sweep: No faster than coupled (auto) time.
Dan and una to otek	e) Detector function: Peak.
Procedure:	f) Trace: Max-hold.
ex aboten	g) Allow trace to stabilize.
Anbore An.	h) Use the marker-to-peak function to set the marker to the peak of the
atek Anbore	emission.
And	i) The indicated level is the peak output power, after any corrections for
-botek Anbo	external attenuators and cables.
Alle	j) A spectral plot of the test results and setup description shall be included in
ek Aupore. A	the test report.
P. stek	NOTE—A peak responding power meter may be used, where the power
hotek Anbo	meter and sensor system video bandwidth is greater than the occupied
in work	bandwidth of the unlicensed wireless device, rather than a spectrum
anboter And	analyzer and analyzer and analyzer and
b	Ann rek nov r k hore h

### 5.1. EUT Operation

Operating Envir	onment:	- botek	Anboro	P.	-otek	Anboten	PL
Tost modo:	1: TX (Non-Hop	oing): Keep th	e EUT in c	continuous	ly trans	mitting mode (	non-

Test mode: hopping)

### 5.2. Test Setup

N		V	- All	V	5. e		D. 1.
Anbotek	Anbotek	EUT	Spectrum A	nalyzer	ier Notek	Anbotek Anbotek	P
et Anbotek	Anb-	Anbotek	Anbor-	A. Antostek	Anbotek	Anbor	eK.
5.3. Test Da	ta Anu sor	ek Anbotek	Anbo	A nbotek	Anbor	Am	botek
Temperature:	25.5 °C	Humidity:	47 % <sup>Mb0</sup>	Atmospheric F	Pressure:	101 kPa	
Please Refer t	o Appendix for [	Details.	nbotek Anb	Anbotek An	botek	Anboten	And

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# 6. Channel Separation

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Test Requirement:       47 CFR 15.247(a)(1)         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         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:       • O Video (or average) bandwidth (VBW) ≥ RBW.         O Sweep: No faster than coupled (auto) time.       • D Detector function: Peak.         O 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.	Dr.	101 101			-60	14- L	
Test Limit:       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         The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: <ul> <li>a) Span: Wide enough to capture the peaks of two adjacent channels.</li> <li>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.</li> <li>c) Video (or average) bandwidth (VBW) ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max-hold.</li> <li>g) Allow the trace to stabilize.</li> </ul> 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	Test Requirement:	47 CFR 15.24	47(a)(1)	pole.	Ann	Anbotek	And
Test Method:       KDB 558074 D01 15.247 Meas Guidance v05r02         The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:       a) Span: Wide enough to capture the peaks of two adjacent channels.         b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.       c) Video (or average) bandwidth (VBW) ≥ RBW.         d) Sweep: No faster than coupled (auto) time.       e) Detector function: Peak.       f) Trace: Max-hold.         g) Allow the trace to stabilize.       Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	rek Anbotek A Test Limit: Anbotek Anbotek Anbotek Anbotek	hopping char the 20 dB bar Alternatively, band may ha 25 kHz or two whichever is	nel carrier fre ndwidth of the frequency hop ve hopping ch o-thirds of the greater, provid	quencies se hopping cha pping system annel carrie 20 dB band	parated by a annel, whichens operating i r frequencies width of the h	minimum of 25 ever is greater. in the 2400-248 that are separ opping channe	5 kHz or 33.5 MHz ated by I,
spectrum analyzer settings:         a) Span: Wide enough to capture the peaks of two adjacent channels.         b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.         c) Video (or average) bandwidth (VBW) ≥ RBW.         d) Sweep: No faster than coupled (auto) time.         e) Detector function: Peak.         f) Trace: Max-hold.         g) Allow the trace to stabilize.         Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be	Test Method:				ice v05r02	Anbotek	Anbotek
	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	spectrum ana a) Span: Wid b) RBW: Star spacing; adju channel. c) Video (or a d) Sweep: No e) Detector fu f) Trace: Max g) Allow the t Use the mark peaks of the regulatory lim	alyzer settings e enough to c t with the RBV st as necessa average) band o faster than c unction: Peak. -hold. race to stabiliz er-delta function adjacent chan hit shall be det	: apture the p V set to app ry to best id width (VBW oupled (auto ze. ion to detern nels. Compl	eaks of two a roximately 30 entify the cer ) ≥ RBW. )) time. )) time. nine the sepa iance of an E	idjacent channe % of the chann iter of each ind iter of each ind iter of each ind iter of each ind iter of each ind	els. nel ividual ividual propriate

# 6.1. EUT Operation

Operating Envir	ronment:	or .	abotek A	upor A.	~otek	Anbote.
Test mode:	2: TX (Hoppi	ng): Keep the	EUT in continu	ously transmitt	ing mode (hop	ping).
6.2. Test Set	up Anbotek	Anbote.	And	Anbotek	Anbo	Anbotek

### 6.2. Test Setup

	6.2. Test Setup	Anbote, hotek	Anbotek	Anbotek	Anbo	Anbolek	Ant
nb	otek Anbotek A	EUT	Spectru	m Analyzer	Anbotek	Anboic Anboic	s/r
1	Anbotek Anbo	Anbote. At	un <sup>tek</sup>	unbotek An	or And	nbotek AN	potek
	6.3. Test Data	Anbotek	Anborek	Anbotek	Anbore A	Anbotek	Anbot
		1 10 2	47.0/	191	nD		

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pr	essure:	101 kPa	b
1010	DI.	191	00-	, in the second s	. NO.	be.	

Please Refer to Appendix for Details. Anbote

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#### Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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# 7. Number of Hopping Frequencies

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Alle	<sup>131</sup>
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbolek Anbolek Anbolek Anbolek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
totek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to
And Anbotek Anbotek Anbotek An	be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
Procedure:	<ul> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> </ul>
Anboter Ant	f) Trace: Max-hold. g) Allow the trace to stabilize.
Anbotek Anbot	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A
Nek Anbotek	spectral plot of the data shall be included in the test report.
7.1. EUT Operation	Anbore An otek Anboren And ek nootek An

# 7.1. EUT Operation

Operating Env	ironment:	Anbotek	Anb	nbotek	Anbor	A. Notek
Test mode:	2: TX (Hop	ping): Keep	the EUT in conti	nuously trans	mitting mode	(hopping).
N.	NOT	Pr.	10.	VUP		100

### 7.2. Test Setup

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ootek	Anbotek	E	UT	Spectrum	Analyzer	Anbor	potek l	× nb
Anbotek	Anboten	10K 0.01	otek A	NPORS. AL	abotek	Anbotek	Anboten	
7.3. Tes	t Data Malo	rek h.	A nbotek	Anbore	Am	Anboten	Anbe	6
Tempera	ture: 25.5	5°C	Humidity:	47 %	Atmospheri	c Pressure:	101 kPa	

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emperature: Humidity: Anbc

Please Refer to Appendix for Details.

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#### Report No.:1812C40005312501 100tek FCC ID: 2AGLG-TK50FG-BK Anbol Anbotek

# 8. Dwell Time

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
An.	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-
anbor h	2483.5 MHz band shall use at least 15 channels. The average time of
ok obolek	occupancy on any channel shall not be greater than 0.4 seconds within a
Test Limit:	period of 0.4 seconds multiplied by the number of hopping channels
Lotek Anboic	employed. Frequency hopping systems may avoid or suppress
And sk shotel	transmissions on a particular hopping frequency provided that a minimum of
Anbore. Ann	15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
All	KDB 558074 D01 15.247 Meas Guidance v05r02
lek Anbo	The dwell time per hop on a channel is the time from the start of the first
ek abotek	transmission to the end of the last transmission for that hop. If the device ha
upor Ar.	a single transmission per hop then the dwell time is the duration of that
botek Anbor	transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of
Ann	the last transmission.
Anbore Ann	tek noole Anu ak holek Anbor An
botek An	The time of occupancy is the total time that the device dwells on a channel
Ann	over an observation period specified in the regulatory requirement. To
tek Anbore.	determine the time of occupancy the spectrum analyzer will be configured to
, otek	measure both the dwell time per hop and the number of times the device
nboten And	transmits on a specific channel in a given period.
Ar. Anboten	And hotek Andor A hotek Andore
Anbor	The EUT shall have its hopping function enabled. Compliance with the
abotek Anbo	requirements shall be made with the minimum and with the maximum
Am	number of channels enabled. If the dwell time per channel does not vary wit the number of channels than compliance with the requirements may be
Anbo. A	based on the minimum number of channels. If the device supports different
ak abotek	dwell times per channel (example Bluetooth devices can dwell on a channel
Drocodurou ve <sup>k</sup>	for 1, 3 or 5 time slots) then measurements can be limited to the longest
Procedure:	dwell time with the minimum number of channels.
And k botek	Anbor h nek Anbore An tek nooten
Anbore. And	Use the following spectrum analyzer settings to determine the dwell time per
hotek Anbo	Chop: All otek upotek Ando
Anv	All Chanses Zahon and an anternal attern harrist the harrist the harrist week and atternal
k Aupore. A	a) Span: Zero span, centered on a hopping channel.
v wolek	b) RBW shall be $\leq$ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop.
poter And	c) Sweep time: Set so that the start of the first transmission and end of the
atek Anboten	last transmission for the hop are clearly captured. Setting the sweep time to
Anbo	be slightly longer than the hopping period per channel (hopping period =
abotek Anbo	1/hopping rate) should achieve this.
Ar. rek and	d) Use a video trigger, where possible with a trigger delay, so that the start o
Anbor	the transmission is clearly observed. The trigger level might need adjustmen
at abotek	to reduce the chance of triggering when the system hops on an adjacent
e. An	channel. Anbo
atek Anbore.	e) Detector function: Peak.
no vek	f) Trace: Clear-write, single sweep.
anboten Ano	g) Place markers at the start of the first transmission on the channel and at
r. V vote	the end of the last transmission. The dwell time per hop is the time between

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Hotline 5 400-003-0500 www.anbotek.com Anb



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these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3 / 0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

### 8.1. EUT Operation

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Operating Environment: Test mode: 2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping).

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### 8.2. Test Setup

	Anbotek Anbotek	Anbo	EUT	Spectrum Anal	yzer	Anboten A	Anbotek
AU	8.3. Test Data	ek Anbe	tek Anbotek	Anbo.	Aupolisk	Anbotek Anbotek	Anbo. Anbo

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

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#### Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK otek

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### 9. Emissions in non-restricted frequency bands

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Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
N. LOK	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency
ek Aupor	band in which the spread spectrum or digitally modulated intentional radiator
otek	is operating, the radio frequency power that is produced by the intentional
Lotek Anov	
in solek	radiator shall be at least 20 dB below that in the 100 kHz bandwidth within
boten And	the band that contains the highest level of the desired power, based on
Test Limit:	either an RF conducted or a radiated measurement, provided the transmitter
And And	demonstrates compliance with the peak conducted power limits. If the
Al.	transmitter complies with the conducted power limits based on the use of
Anbore An	RMS averaging over a time interval, as permitted under paragraph (b)(3) of
h. tek	this section, the attenuation required under this paragraph shall be 30 dB
tek Anbo	instead of 20 dB. Attenuation below the general limits specified in §
V solek	15.209(a) is not required.
botek Anb	
Test Method:	ANSI C63.10-2020 section 7.8.7
Augore Aug	KDB 558074 D01 15.247 Meas Guidance v05r02
r. tek hol	7.8.7.1 General considerations
Anbo. A.	To demonstrate compliance with the relative out-of-band emissions
otek M	requirements conducted spurious emissions shall be measured for the
Ano	transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers.
K wotek	Frequency hopping shall be disabled for this test with the exception of
oter Ann	
aboten	measurements at the allocated band-edges which shall be repeated with
abote. Ant	hopping enabled.
An aboten	And k hotek Andor the stek unbore
Anbore An	Connect the primary antenna port through an attenuator to the spectrum
tek anbo	analyzer input; in the results, account for all losses between the unlicensed
Anbo	wireless device output and the spectrum analyzer. The frequency range of
atek b	testing shall span 30 MHz to 10 times the operating frequency and this may
K AND	be done in a single sweep or, to aid resolution, across a number of sweeps.
k hotek	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a
Joten And	coupled sweep time with a peak detector.
ek soloter	coupled sweep time with a peak detector.
Anbore An	The limit is based on the highest in hand level serves all shannels measured
Discostick holore	The limit is based on the highest in-band level across all channels measured
Procedure:	using the same instrument settings (resolution bandwidth of 100 kHz, video
atek Anb	bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To
And	help clearly demonstrate compliance a display line may be set at the
k hotek	required offset (typically 20 dB) below the highest in-band level. Where the
s. Aun	highest in-band level is not clearly identified in the out-of-band
where we are the second second	measurements a separate spectral plot showing the in-band level shall be
pore. Ann	provided.
rek aboter	Alman Anbor Anbor A
Vupor VII.	When conducted measurements cannot be made (for example a device with
tek anbote	
Aupo. A.	integrated, non-removable antenna) radiated measurements shall be used.
atek ant	The reference level for determining the limit shall be established by
Anbu	maximizing the field strength from the highest power channel and measuring
v solek	using the resolution and video bandwidth settings and peak detector as
ien Aup	described above. The field strength limit for spurious emissions outside of
wotek	restricted-bands shall then be set at the required offset (typically 20 dB)
boter Anv	below the highest in-band level. Radiated measurements will follow the
where who here	standards measurement procedures described in Clause 6 with the
Vupole. Vu.	exception that the resolution bandwidth shall be 100 kHz, video bandwidth
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300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

#### 7.8.7.2 Band-edges

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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.

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# 9.1. EUT Operation

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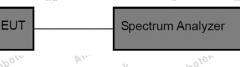
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Operating Envi	ronment:	Anbo	h spotek	Anbore	An	otek Anbr	ster Ar
Test mode:	hopping	). Solet	Anbo	JT in continuou continuously t	-tek	nbote. I	Alle
9.2. Test Set	up Anb	stek Anb	ore Ar.	Anbotek	Anboten	And	Anbotek

### 9.2. Test Setup



### 9.3. Test Data

	CP 4				
Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
V	1×.		6 11 11	VOA NA	1°.

Please Refer to Appendix for Details.

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#### 10. Band edge emissions (Radiated) Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the Test Requirement: radiated emission limits specified in § 15.209(a)(see § 15.205(c)). Frequency (MHz) Field strength Measurement (microvolts/meter) distance (meters) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 30 24000/F(kHz) 1.705-30.0 30 30 100 \*\* 30-88 3 150 \*\* 88-216 3. 216-960 200 \*\* 3 Above 960 500 3 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. 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. ANSI C63.10-2020 section 6.10 Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020 section 6.10.5.2 Procedure:

### 10.1. EUT Operation

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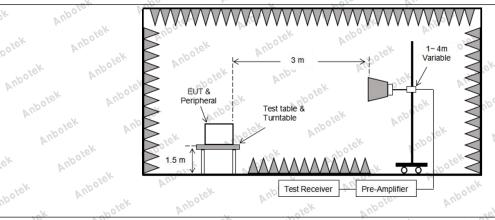
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Operating Envi	ronment:	An.	Anboten	Ano	No.K	nbotek	Anbo	v 
Test mode:	1: TX (Nor hopping).	i-Hopping): K	eep the EU1	in contir	nuously tra	ansmitting m	node (non-	ote.

### 10.2. Test Setup



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#### Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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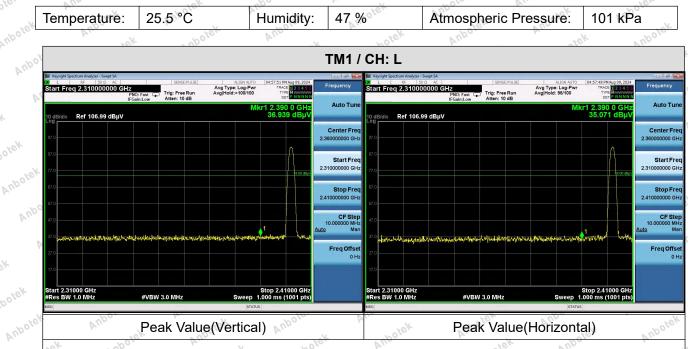
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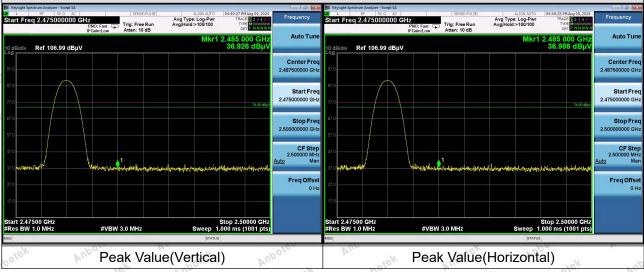
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# 10.3. Test Data



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

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Test Requirement:	restricted bands, as define	), In addition, radiated emission ed in § 15.205(a), must also con pecified in § 15.209(a)(see § 15	mply with the
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measuremer distance (meters)
Anbor	0.009-0.490	2400/F(kHz)	300
abotek Anb	0.490-1.705	24000/F(kHz)	30 And
All	1.705-30.0	30 <sup>K</sup> Anbor A	30o
ek Aupor	30-88	100 **	<sup>10</sup> 3
k holek	88-216	150 **	3 tek
boten And	216-960	200 **	3
tek anboter	Above 960	500 100 tek	3 noore
Anbotek Anbo Anbotek Ant nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abov The emission limits showr employing a CISPR quasi 90 kHz, 110–490 kHz and	ting under this section shall no Hz, 76-88 MHz, 174-216 MHz of these frequency bands is pern §§ 15.231 and 15.241. we, the tighter limit applies at the in the above table are based of peak detector except for the fr above 1000 MHz. Radiated en sed on measurements employing	or 470-806 MHz. hitted under othe e band edges. on measuremen equency bands nission limits in
Test Method:	ANSI C63.10-2020 section	n 6.6.4 Meas Guidance v05r02	otek Anbote
Test Method.	RDD 330074 D01 13.247		No. No.

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

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# 11.1. EUT Operation

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Operating Env	ironment:	- otek	Aupore An	. vek	nboten An	
Test mode:	1: TX (Non-Ho hopping).	pping): Keep	the EUT in con	tinuously trans	mitting mode (r	non-ore
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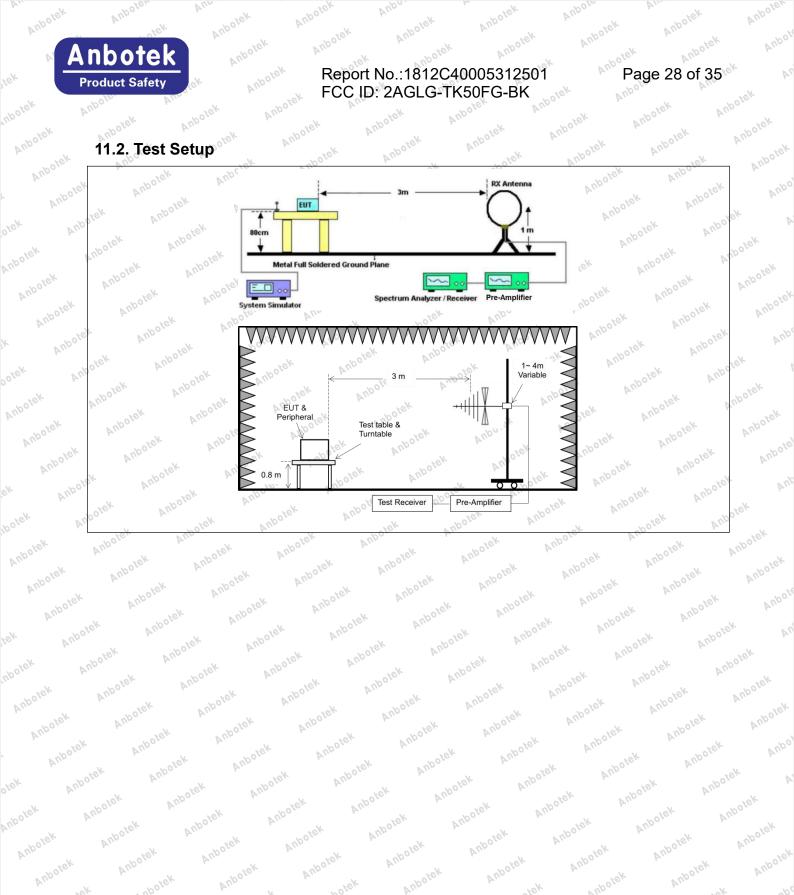
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#### Report No.:1812C40005312501 FCC ID: 2AGLG-TK50FG-BK

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### 11.3. Test Data

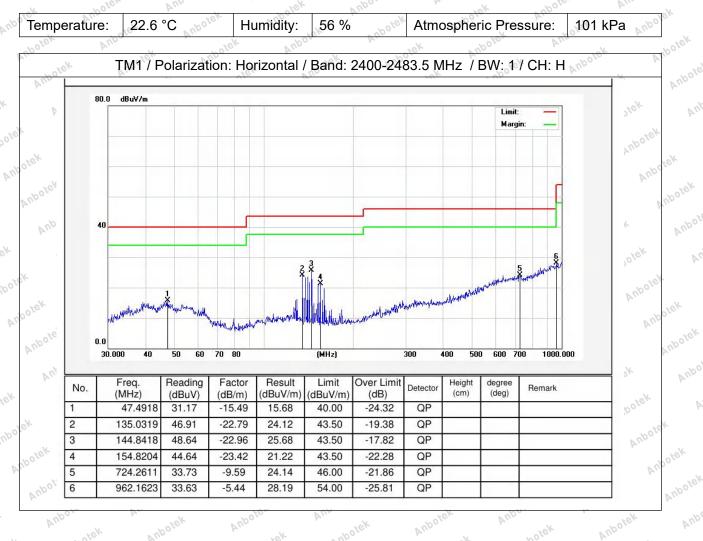
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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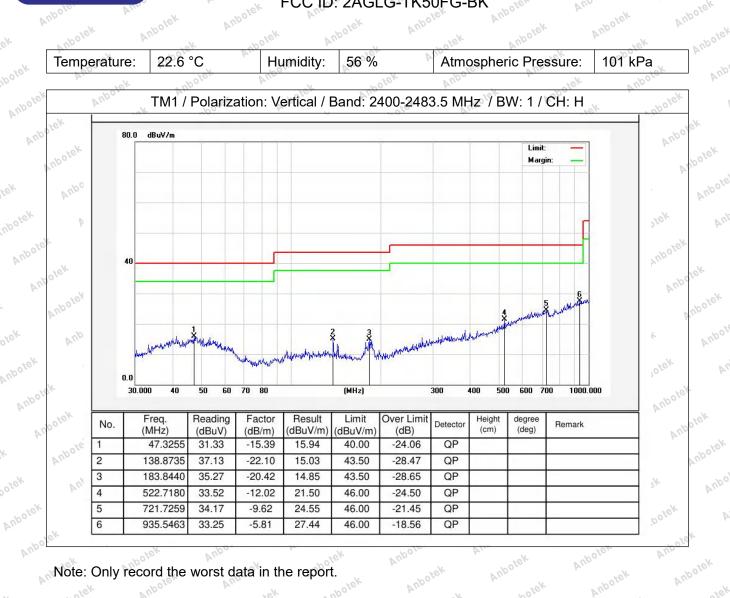
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Note: Only record the worst data in the report. Anbotek Anbotek

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Test Requirement:	In addition, radiated emission in § 15.205(a), must also cor in § 15.209(a)(see § 15.205(	nply with the radiated emis	
Anbotek Anbotek	sk Anbotek Anbotek	Field strength (microvolts/meter)	Measurement distance (meters)
Anbor		2400/F(kHz)	300 otek
Anboten Ar		24000/F(kHz)	<u>30 Mine</u>
w wotek		30 100 **	Anbo 3 Anbote
er Anv		150 **	Ant 3
otek Anbore		200 **	3
in the chotek		500 m kat	3,00104
Anboten Anbo Anbotek A	intentional radiators operatin frequency bands 54-72 MHz However, operation within th sections of this part, e.g., §§ In the emission table above,	76-88 MHz, 174-216 MHz ese frequency bands is per 15.231 and 15.241. the tighter limit applies at t	z or 470-806 MHz. rmitted under other
npotek Anbotek Anbotek Anbotek	The emission limits shown in employing a CISPR quasi-pe 90 kHz, 110–490 kHz and ab these three bands are based	eak detector except for the pove 1000 MHz. Radiated e	l on measurements frequency bands 9 emission limits in
Anbotek Anbotek Test Method:	The emission limits shown in employing a CISPR quasi-pe 90 kHz, 110–490 kHz and at	eak detector except for the ove 1000 MHz. Radiated e on measurements employ .6.4	l on measurements frequency bands 9- emission limits in

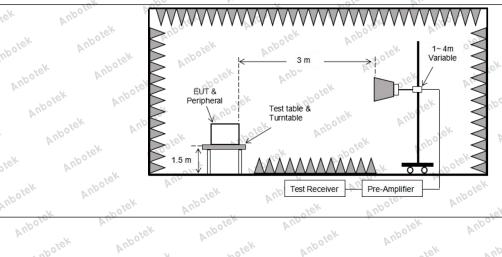
### 12. Emissions in frequency bands (above 1GHz)

### 12.1. EUT Operation

Operating Envi	ronment:	An	Anboten	Ano	Nor-	nbotek	Anbo	1
Test mode:	1: TX (Noi hopping).	n-Hopping): Ke	eep the EUT	Г in contir	nuously tr	ansmitting m	node (non	ote

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### 12.2. Test Setup



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# nbotek 12.3. Test Data

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Temperature:	22.6 °C	Humidity:	56 %	Atmospheric	Pressure: 1	l01 kPa
And	abotet	Anbo	notek	Anbore	Alli	Anboth
		•	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4806.00	29.23	15.27	44.50	74.00	-29.50	Vertical
7209.00	30.37	18.09	48.46	74.00	-25.54	Vertical
9612.00	31.62	23.76	55.38	74.00	-18.63	Vertical
12015.00	* 100/0 <sup>1</sup>	Aupor	-K NOW	74.00	Ant	<ul> <li>Vertical</li> </ul>
14418.00 <sup>00°</sup>	*	otek Anbo	te. Vun	74.00	otek Anbo	Vertical
4806.00	npote 29.59 And	15.27	44.86	74.00	-29.14	Horizonta
7209.00	30.24	18.09	48.33	74.00	-25.67	Horizonta
9612.00	29.37	23.76	53.13	74.00	-20.87	Horizonta
12015.00	And *	abotek	Anbo	74.00	Anboren	Horizonta
14418.00	Aupor	A. otek	Anbotek	74.00	K nbotek	Horizonta
Average value Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4806.00	18.61	15.27	33.88	54.00	-20.12	Vertical
7209.00	19.40	18.09	37.49	54.00	-16.51	Vertical
9612.00	20.64	23.76	44.40	54.00	-9.61	Vertical
12015.00	* *	sk Aupor	k ve	10 <sup>4</sup> 54.00 00	A.n.	Vertical
14418.00	× P.	otek Ant	oter Ann	54.00	botek Ant	Vertical
4806.00	17.94 M	15.27	33.21	54.00	-20.79	Horizonta
7209.00	19.30	18.09	37.39	54.00	-16.61	Horizonta
9612.00	18.68	23.76	42.44	54.00	-11.56	Horizonta
12015.00	Aux.	Anbolek	Anboter	54.00	Anbotek	Horizonta
14418.00	ek *Anbore	b.,	ek Anbore	54.00	v vo <sup>V</sup>	Horizonta

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	F153	٦	M1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.25	15.42	44.67 <sup>%00</sup>	74.00	-29.33 ( <sup>100</sup>	Vertical
7323.00	o <sup>tek</sup> 30.22 M <sup>nb<sup>c</sup></sup>	18.02	48.24	o <sup>ver</sup> 74.00	-25.76	Vertical
9764.00	30.63	23.80	54.43	74.00	-19.58	Vertical
12205.00	Ano *	abotek	Anbor	74.00	Anbote	Vertical
14646.00	Aupo*	A	Anbotek	74.00	nbotek	Vertical
4882.00	29.29	15.42	44.71	74.00	-29.29	Horizontal
7323.00	30.23	18.02	48.25	74.00	-25.75	Horizontal
9764.00	29.07	23.80	52.87	74.00	o <sup>tek</sup> -21.13 A <sup>nbo</sup>	Horizontal
12205.00	poter * And	- A	botek An	74.00	Lotek A	Horizontal
14646.00	wolek*	Anbors	, otek	74.00	Vup.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.34	15.42	33.76 NO	54.00	-20.24	Vertical
7323.00	19.50	o <sup>vek</sup> 18.02 M <sup>n0</sup>	37.52	54.00	-16.48	Vertical
9764.00	20.50	23.80	44.30	54.00	-9.71	Vertical
12205.00	Anbote*	Am	Anbotek	54.00	botek	Vertical
14646.00	nbolek	Anbo	hotek	54.00	Am	Vertical
4882.00	17.85	15.42	33.27	54.00	-20.73	Horizontal
7323.00	18.86	18.02	36.88	54.00	-17.12 <sup>0000</sup>	Horizontal
9764.00	19.19 <sup>nb0</sup>	23.80	otek 42.99 And	54.00	11.01 M	Horizontal
12205.00	Lotek * Al	pole. An	, lek	54.00	100	Horizontal
14646.00	100 *	nbotek	Anbo	54.00	Anbole	Horizontal

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VUn	K	15.W	TM1 / CH: H	NOIO A		-16r
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.52	15.58	45.10,∞° <sup>10</sup>	74.00	-28.90	Vertical
7440.00	30.23	17.93	48.16	otek 74.00 prof	-25.84	Vertical 💦
9920.00	31.18	23.83	55.01	74.00	19.00 ×	Vertical
12400.00	Anbolo *	notek	Anbolek	74.00	nbotek	Vertical
14880.00	Anbo*Sk	Anbor	, botek	74.00	p	Vertical
4960.00	29.36	15.58	44.94	74.00	-29.06	Horizontal
7440.00	30.26	17.93	48.19	74.00 pote	-25.81	Horizontal
9920.00	29.75	23.83	53.58 mbo	74.00	10× -20.42 no	Horizontal
12400.00	botek * Anb	Dec. Pur	stek ar	o <sup>ster</sup> 74.00 <sup>Ant</sup>	e K	Horizontal
14880.00	lek*	nbotek A	NO	74.00	Aupor	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.46	15.58	35.04	× 54.00 mbol	-18.96	Vertical No
200 <sup>17</sup> 440.00	20.51	Net 17.93	38.44	54.00	p <sup>otek</sup> -15.56 A <sup>nb</sup>	Vertical
9920.00	21.05 M	23.83	44.88	54.00	9.13	Vertical
12400.00	*ajoda	Anbor	A	54.00	Ann	Vertical
14880.00	A. * tek	Anboten	Ann	54.00	Anbore	Vertical
4960.00	19.29	15.58	34.87	54.00	-19.13	Horizontal
7440.00	20.23	17.93	38.16	54.00	-15.84,00 <sup>10</sup>	Horizontal
9920.00	19.09 not	23.83	42.92	54.00 × 100	-11.08	Horizontal
12400.00	*	botek Aut	, v v	54.00	pore. An	Horizontal
14880.00	Pupor * A	u otek	Anboten	54.00	nbotek	Horizontal

Remark:0

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1. Result =Reading + Factor

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Anbotek potek 2. Test frequency are from 1GHz to 25GHz, "\*" means the test results were attenuated more than 20dB Anbotek below the permissible limits, so the results don't record in the report.

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# APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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# **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

# APPENDIX III -- INTERNAL PHOTOGRAPH

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Please refer to separated files Appendix III -- Internal Photograph

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