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FCC Test Report

DONGGUAN TOGRAN ELECTRONICS Applicant

TECHNOLOGY CO.,LTD.

No. 110, Shidan Mid Rd, Shijie Town, Dongguan **Address**

city, China

Product Name Dongle

: May 27, 2024 **Report Date**



ce Laboratory Limited









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TEST REPORT

Applicant : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Manufacturer : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Product Name : Dongle

Test Model No. : TK50FG-D

Reference Model No. : N/A

Trade Mark : Staples, TOGRAN

Rating(s) : Input: DC 5V via PC

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:	Apr. 30, 2024
Date of Test:	Apr. 29, 2024 to May 14, 2024
Anbotek Anbotek Anbotek Anbotek Anbot	Ella Liang
Prepared By:	Tek Supotek Augo
	(Ella Liang)
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Approved & Authorized Signer:	And alek about k Aupo k
Ar. Tek upoter And	(Fdward Pan)







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Revision History

Report Version	Description	Issued Date			
Anbore R00 potek An	Original Issue.	May 27, 2024			
W. Aupotek Aupotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb			
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1. General Information

1.1. Client Information

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

1.2. Description of Device (EUT)

	^	the Ann work about the k work Ann
Product Name	:	Dongle
Test Model No.	:	TK50FG-D
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Staples, TOGRAN
Test Power Supply	:	DC 5V via PC from adapter input AC 120V/60Hz; DC 5V via PC
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anboret Anb hotek Anborek Anborek
RF Specification		
Operation Frequency	:	2408~2474MHz
Number of Channel	:	434 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK Anbote Andrew Anbotek Anbotek An
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-2.2dBi Anborek Anborek Anborek Anborek Anborek
		and the same of th

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

Title Manufacturer		Model No.	Serial No.	
Acer Computer	Anto acer Anbotek	N19W3	2020AJ3862	
Acer Computer Adapter	Lite-On Technology Corporation	PA-1650-58	KP06503020	

1.4. Operation channel list

Operation Band:

2010 CH				- CY			01
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2408	11º0°	2428	21 potek	2448	31 botel	2468
02	2410	12 nbore	2430	ek 22 Anbot	2450	32 nb	2470 nbon
03 Anbe	2412	otek 13 Anb	2432	otek 23 An	2452 And	33	2472 Anh
04 A	2414	nbote 14	2434	24	2454	34	2474
Anb 05	2416	15	2436	25	2456	Aug - otek	Anbetek
06	2418	16	2438	26	2458	And botck	Anbotek
07/0010	2420	17 nbotel	2440	27	2460	-k Pur	rek - Anbotel
sk 08 Mpo	2422	rek 18 Anb	2442	28	ote ^k 2462 pri ^{bo}	- Vun	botek - Anbe
potek 09 Ar	2424	19 A	2444 And	29	2464	Pose by	potek A
Mbo110	2426	20	2446	30	2466	Anbor-	bu.

1.5. Description of Test Modes

Pretest Modes		Descriptions			
ofek AnboutM1 hotek		Keep the EUT in continuously transmitting mode (non-hopping).			
2	ootek Anb TM2	Keep the EUT in continuously transmitting mode (hopping).			





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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			
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.

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotely Anbote	P
Conducted Emission at AC power line	Mode1	P And
Occupied Bandwidth	Mode1	P
Maximum Conducted Output Power	Mode1	Anbore P. R.
Channel Separation	Mode2	AND SEN
Number of Hopping Frequencies	Mode2	Photo
Dwell Time	Mode2	P Anbi
Emissions in non-restricted frequency bands	Mode1,2	ooker P A
Band edge emissions (Radiated)	Mode1	Anboron P
Emissions in frequency bands (below 1GHz)	Mode1	Ant P
Emissions in frequency bands (above 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable	tek Anbotek Anbot	otek Aupo

Shenzhen Anbotek Compliance Laboratory Limited





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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 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				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
žek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
304	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alpotek	Anbor
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
4 nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



Hotline



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	sions in frequency ba edge emissions (Ra		Aupotek	Anborek	Aupotek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbore 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Anborek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
,e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emissions in frequency bands (below 1GHz)								
Item Equipment		Equipment Manufacturer		Serial No.	Last Cal.	Cal.Due Date		
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22		
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16		
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22		
Antotel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11		
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	y Aupon	k Anbotek		

www.anbotek.com.cn





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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 -2.2dBi. It complies with the standard requirement.





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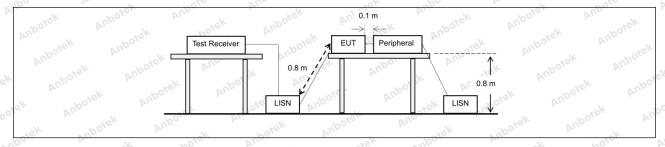
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Exce section, for an intentional radiator public utility (AC) power line, the back onto the AC power line on a band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con radio frequency voltage tha ny frequency or frequencie ot exceed the limits in the f	nected to the at is conducted as, within the ollowing table, as				
Polek Vupos	Frequency of emission (MHz)	Conducted limit (dBµV)					
and sek shotek	Anbot Anbott	Quasi-peak	Average				
-Vupois Vi.	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5 tek noore Am	56 AT	46				
Aug Pot	5-30 And 5	60	50 tell And				
K Aupore An	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	Anborek Anbore	Ann				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from ur						

3.1. EUT Operation

Operating Envi	ronment:	Anbo.	h. bořek	Anbote.	And	n'ek	Anbotek	Vupo.
Test mode:	1: TX (Nor hopping).	n-Hopping):	Keep the EU	T in continu	ously tran	smitting	mode (non-	Anbo

3.2. Test Setup





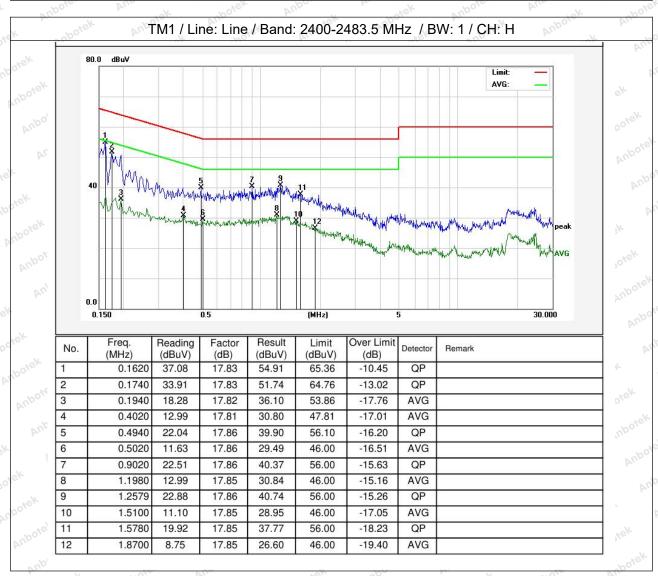
Hotline



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3.3. Test Data

Temperature:	21.4 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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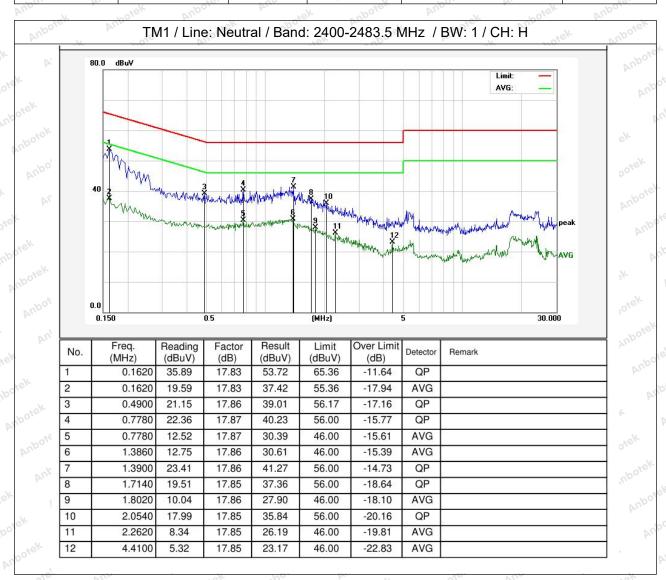






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Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure: 101 kPa







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each 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. 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. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms.
	The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

4.1. EUT Operation

0	Operating Envir	onment:	Aurojek	Anborek	Vupo. "Ek	abotek.	Anbore.	Vun
	Test mode:	1: TX (Non-F	lopping): Kee	p the EUT ir	continuously	transmitting	mode (non-	VUL



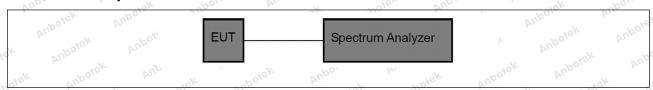




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hopping).

4.2. Test Setup



4.3. Test Data

V	10,	Y C		.V	1000
T	25 5 °C	Validation of the Control of the Control	17 %	Atus a subject a Dua settina.	101 kDa
lemperature:	1 25.5 C	Humidity:	14/%	Atmospheric Pressure:	I TOT KPa
. 5.0.6 5.5.15 5.1		· · · · · · · · · · · · · · · · · · ·	LOV	,	v · • · · · · · · · · · · · · · · · · ·





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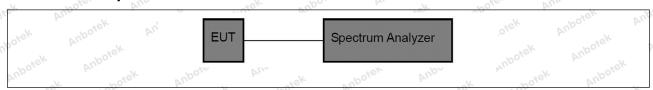
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
Anbotek	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

Operating E	nvironment:	Anborek	Augotek	Anboiek	Vupo.r.	An
Test mode:	1: TX (Non-Hoppi	ng): Keep the	EUT in contin	uously transr	mitting mode (non-
icstillode.	hopping).					

5.2. Test Setup



5.3. Test Data

Temperature:	25.5 °C	AUD H	umidity:	47 %	Anbo	Atmosph	eric Press	ure:	101 kPa	









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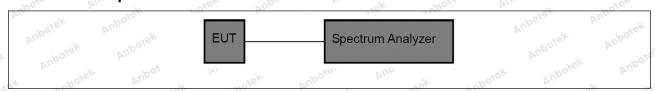
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
hbotek Anbotek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Anbotek Anbotek Anbotek Anbotek	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

Operating Environmen	N. Die	hotek	Anboren	And	rek	anbotek	Anbo.	V
Test mode: 2: TX	(Hopping):	Keep the	EUT in cont	inuously	transm	itting mode	(hopping).	Y Vu

6.2. Test Setup



6.3. Test Data

	Temperature:	25.5 °C	rek	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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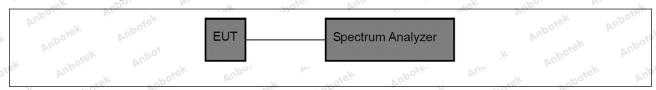
7. Number of Hopping Frequencies

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

7.1. EUT Operation

o ¹	Operating Envir	ronment:	Aupore	P.U. Polek	Anboiek	Ando	upotek	Ank
20	Test mode:	2: TX (Hopping	g): Keep the E	UT in continu	ously transr	nitting mode (h	nopping).	1

7.2. Test Setup



7.3. Test Data

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







Report No.: 18220WC40088901 FCC ID: 2AGLG-TK50FG-D Page 21 of 35

8. Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that 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 the last transmission.
	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
Anborek	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop: a) Span: Zero span, centered on a hopping channel.
Anbotek Anbotek	 b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to
otek Anbotek Arbotek	be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment
	to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at









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> the end of the last transmission. The dwell time per hop is the time between these two markers.

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

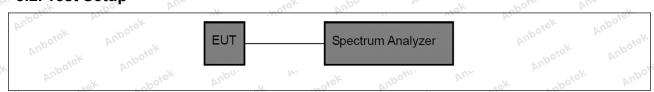
The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time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

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

8.1. EUT Operation

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

8.2. Test Setup



8.3. Test Data

Temperature: 25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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

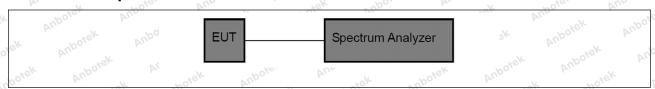
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O	perat	mg i	⊏⊓vı	IOH	me	ΠL.

Test mode:

1: TX (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping).

2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping)

9.2. Test Setup



9.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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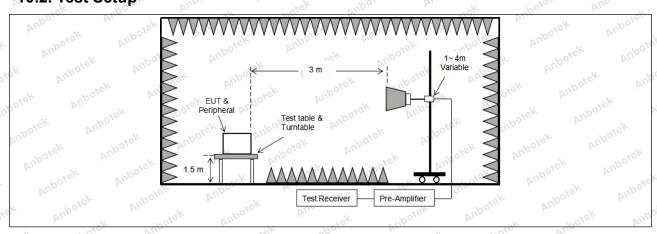
10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as define	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the			
k Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300			
abotek Anbo	0.490-1.705	24000/F(kHz)	30			
ir. sek upojen	1.705-30.0	30° her 100	30			
	30-88	100 **	3,ek noore			
	88-216	150 **	3			
	216-960	200 **	3,botel Anti			
	Above 960	500 hotek Anbot	3 sex			
** 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						
potek Pupo, b	detector.	k potek Wupo.	bu.			
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N	- 42 P	ek Aupo,			
Procedure:	ANSI C63.10-2020 section	6.10.5.2	por An			

10.1. EUT Operation

Operating Envir	onment:	^{vupotek}	Anbo.	, boick	Anbore	And	200
Test mode:	1: TX (Non-Ho	opping): Keep	the EUT in	continuously	transmitting r	mode (non-	V.
rest mode.	hopping).	AUG	v not	ek aupo,	by.	ek abore	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

10.2. Test Setup





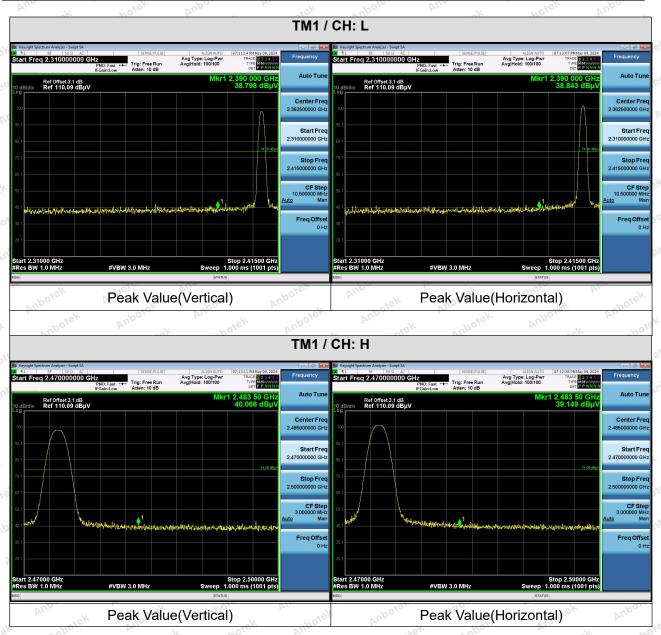




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10.3. Test Data

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



Remark:

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





Hotline

www.anbotek.com.cn

400-003-0500



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11. Emissions in frequency bands (below 1GHz)

No N	70, b,	70V	~ /v 0,
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 Wipo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
shotek Anbo	0.490-1.705	24000/F(kHz)	30 stell
	1.705-30.0	30	30
	30-88	100 **	3,ek anbore
	88-216	150 **	3
	216-960	200 **	3 botes And
	Above 960	500 Morek Anbox	3 rek and
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. In the tighter limit applies at the bin the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Anbotek
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	or Arrange

11.1. EUT Operation

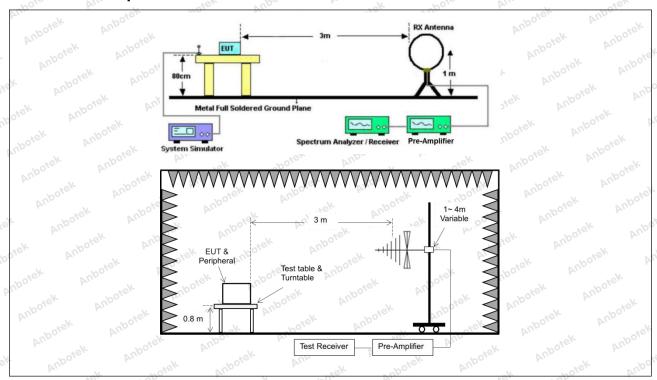
oì	Operating Envir	onment:	Aupotek	Anbe	ak r	bojek	Anbore	VIII	riek	70k
	Test mode:	1: TX (Non-Ho	opping): Keep	the EUT	in conti	nuously tr	ansmitting	mode (r	non-	
70	00001111011011	hopping).	VI	× .	hotel.	Anbo	F-	nek-	noboro .	1





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11.2. Test Setup





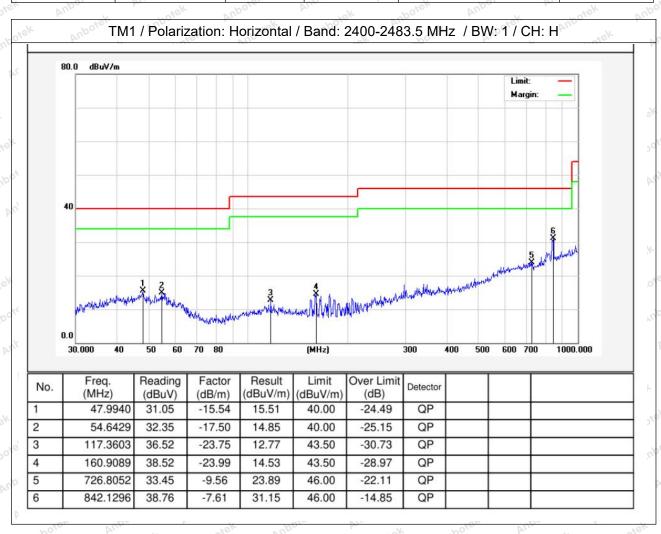


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11.3. Test Data

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

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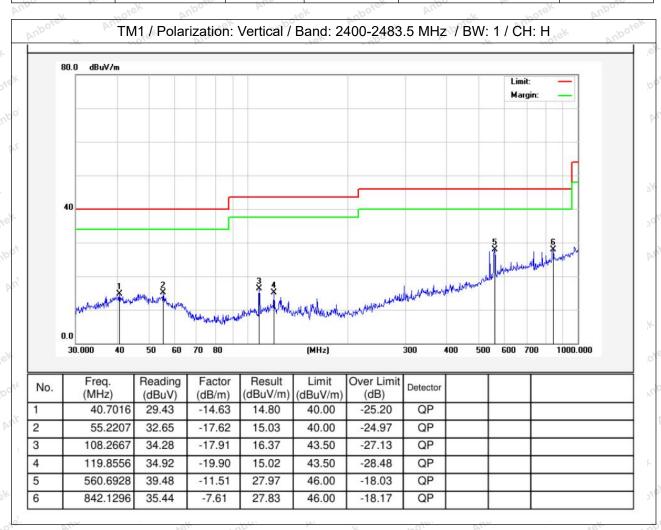






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Temperature: 20.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa







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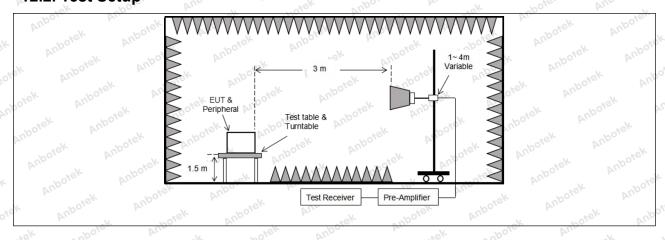
12. Emissions in frequency bands (above 1GHz)

Pupp K	All.	- Lover Pub	isk jeon			
Test Requirement:		ons which fall in the restricted back comply with the radiated emission 5(c)):				
k Aupotek Aupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300			
Inpose, Y Aug	0.490-1.705 1.705-30.0	24000/F(kHz) 30	30			
	30-88	100 **	3.ek anborek			
abotek Anbu	88-216	150 **	3			
	216-960	200 **	3 bores And			
	Above 960	500 And	3 rek on			
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHowever, operation within these frequency bands is permitted under ot 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 measurement employing a CISPR quasi-peak detector except for the frequency band 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.						
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ak Anbotek			
Procedure:	ANSI C63.10-2020 section	6.6.4	Dote. Purp			

12.1. EUT Operation

Operating Envir	onment:	^{vupotek}	Anbo.	, boick	Anbore	And	200
Test mode:	1: TX (Non-Ho	opping): Keep	the EUT in	continuously	transmitting r	mode (non-	V.
rest mode.	hopping).	AUG	v not	ek aupo,	by.	ek abore	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

12.2. Test Setup









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12.3. Test Data

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

- A	HOTE AME		The collins	F	ak hore	VI
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4816.00	32.28	15.27	47.55	74.00	-26.45	Vertical
7224.00	33.28	18.09	51.37	74.00	-22.63	Vertical
9632.00	35.26	23.76	59.02	74.00	-14.98	Vertical
12040.00	Aupole * Al	49:	abotek Anb	74.00	otek Anbote	Vertical
14448.00	VUPO*SK	Vupo.	hojek P	74.00	stek ont	Vertical
4816.00	32.58	15.27	47.85	74.00	-26.15	Horizontal
7224.00	33.09	18.09	51.18	74.00	-22.82	Horizontal
9632.00	30.97	23.76	54.73	74.00	-19.27	Horizontal
12040.00	otek * Vupo	-V	ick Vupote	74.00	, abotek	Horizontal
14448.00	woick* An	boye Vun	sek spo	74.00	K hore	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	polarization
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
4816.00	21.66	15.27	36.93	54.00	-17.07	Vertical
7224.00	22.31	18.09	40.40	54.00	-13.60	Vertical
9632.00	24.28	23.76	48.04	54.00	-5.96	Vertical
12040.00	-poto*k	Anbore An	iel v	54.00		Vertical
14448.00	All *	anboiek	Aupo	54.00	ipore All	Vertical
4816.00	20.93	15.27	36.20	54.00	-17.80	Horizontal
7224.00	22.15	18.09	40.24	54.00	-13.76	Horizontal
9632.00	20.28	23.76	44.04	54.00	-9.96	Horizontal
12040.00	tek *	otek Aupor	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	54.00	Vun Fek	Horizontal
14448.00	Vpo. *	isotek ant	OTO AND	54.00	ek Aupo	Horizontal



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				hotek	Anbor	rek
			ГМ1 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	32.30	15.42	47.72	74.00	-26.28	Vertical
7320.00	33.13	18.02	51.15	74.00	-22.85	Vertical
9760.00	34.27	23.80	58.07	74.00	-15.93	Vertical
12200.00	ek * nbotek	Anbo.	hotek	74.00	Aug	Vertical
14640.00	* * *	tek Aupote	Pur Vie	74.00	Vupo.	Vertical
4880.00	32.28	15.42 mb	47.70	74.00	-26.30	Horizontal
7320.00	33.08	18.02	51.10	74.00	-22.90	Horizontal
9760.00	30.67	23.80	54.47	74.00	-19.53	Horizontal
12200.00	* * otek	Anbore	And	74.00	Yupo.	Horizontal
14640.00	A.T. Otek	Anbotek	Aupo.	74.00	Anbois	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	21.39	15.42	36.81	54.00	-17.19	Vertical
7320.00	22.41	18.02	40.43	54.00	-13.57	Vertical
9760.00	24.14	23.80	47.94	54.00	-6.06	Vertical
12200.00	k ¥upor	N Diek	anboter	54.00	aboiek	Vertical
14640.00	otek * Anboti	And	sk spojek	54.00	ki. Potek	Vertical
4880.00	20.84	15.42 nbo	36.26	54.00	-17.74	Horizontal
7320.00	21.71	18.02 An	39.73	54.00	-14.27	Horizontal
9760.00	20.79	23.80	44.59	54.00	100 PM-9.41 And	Horizontal
12200.00	Anboten	Anb rek	botek	54.00	-otek D	Horizontal
14640.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal



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en Aug	riek	anbore	Dir.	hoter	AUD	rek
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4948.00	32.57	15.58	48.15	74.00	-25.85 Noot	Vertical
7422.00	33.14	17.93	51.07	74.00	-22.93	Vertical
9896.00	34.82	23.83	58.65	74.00	-15.35	Vertical
12370.00	* * Sofek	anbotest	Aup	74.00	Aupor	Vertical
14844.00	* Vup	iek "bojel	Aupor	74.00	Anbotet	Vertical
4948.00	32.35	15.58	47.93	74.00	-26.07	Horizontal
7422.00	33.11	17.93	51.04	74.00	-22.96	Horizontal
9896.00	31.35	23.83	55.18	74.00	-18.82	Horizontal
12370.00	Vup.*	abotek	Vupo,	74.00	Aupoter Aut	Horizontal
14844.00	N. Apolo	p	Anbores	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4948.00	22.51	15.58	38.09	54.00	-15.91	Vertical
7422.00	23.42	17.93	41.35	54.00	12.65	Vertical
9896.00	24.69	23.83	48.52	54.00	-5.48	Vertical
12370.00	* * bojek	Aupor	A. Otek	54.00	Aug "ek	Vertical
14844.00	* * ~0*	k Aupoter	Aug	54.00	Aupo	Vertical
4948.00	22.28	15.58	37.86	54.00	-16.14	Horizontal
7422.00	23.08	17.93	otek 41.01 pho	54.00	-12.99	Horizontal
9896.00	20.69	23.83	44.52	54.00 And	-9.48	Horizontal
12370.00	* tek	Aupoter	Ann	54.00	100, VIII	Horizontal
14844.00	Aux * **	Spoyek	Anbo	54.00	Anbore. A	Horizontal

Remark:

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







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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 -----

