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# **FCC Test Report**

Applicant : INMOTION TECHNOLOGIES CO., LTD.

Address 18F, B1, Nanshan i Park, No.1001 Xueyuan Ave.,

Nanshan District, shenzhen, China

Product Name : Electric Unicycle

Report Date : Apr. 20, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









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## TEST REPORT

INMOTION TECHNOLOGIES CO., LTD. Applicant

INMOTION TECHNOLOGIES CO., LTD. Manufacturer

**Product Name** Electric Unicycle

E20 Test Model No.

Reference Model No. E20 Lite

Trade Mark INMOTION

E20 Input: 54.6V-1.5A

E20 Lite Input: 54.6V-1A Rating(s) E20 Capacity: Lithium-ion: DC 46.8V, 5.1Ah

E20 Lite Capacity: Lithium-ion: DC 46.8V, 2.55Ah

47 CFR Part 15.247

Test Standard(s) ANSI C63.10-2020

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:	Feb. 20, 2024
Date of Test:	Feb. 20, 2024 to Apr. 01, 2024
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botek Anbotek Anbotek Anbotek Anbot	Ella Liang
Prepared By:	Total And Dotak
	(Ella Liang)
	Idward pan
	mound your
Approved & Authorized Signer:	Aug Potek Pupo, W.
ote. Yunger Wilder Wilder	(Edward Pan)



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## **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek An	Original Issue.	Apr. 20, 2024
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10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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### 1. General Information

## 1.1. Client Information

Applicant	: INMOTION TECHNOLOGIES CO., LT	D. Anborek Anbore Ans
Address	18F, B1, Nanshan i Park, No.1001 Xue shenzhen, China	eyuan Ave., Nanshan District,
Manufacturer	: INMOTION TECHNOLOGIES CO., LT	Diek Anbore And Otek
Address	18F, B1, Nanshan i Park, No.1001 Xue shenzhen, China	eyuan Ave., Nanshan District,
Factory	: DONGGUAN BLC ROBOT CO.,LTD.	Anbotek Anbotek
Address	Room 201, Building 1, No.2, Youlian R Guangdong, China	doad, Qiaotou Town Dongguan,

## 1.2. Description of Device (EUT)

710.		
Product Name	:	Electric Unicycle
Test Model No.	:	E20 Anbotek Anbotek Anbotek Anbotek Anbotek
Reference Model No.	:	E20 Lite (Note: All samples are the same except the model number and battery capacity and adapter.)
Trade Mark	:	INMOTION And of the Andrew Andrew Andrew
Test Power Supply	:	AC 120V/60Hz for adapter; DC 46.8V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	E20:  Model: XVE90-5460150 Input: 100-240VAC 50/60Hz 2.0A max Output: 54.6V 1.5A 81.9W E20 Lite:  Model: XVE073-5460100 Input: 100-240VAC 50/60Hz 1.5A MAX Output: 54.6V 1.0A 54.6W
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbote
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	0dBi (Provided by customer)
200		. h

#### 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.	
W. Vosek   Auposes	And stek I nobotek	Aupo, A Air potek	Anbore / And	

### 1.4. Description of Test Modes

Pretest Modes	Descriptions
Inbotek ArTM1	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Anboret TM2	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
Anborek TM3 Anborek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
orek AnborTM4 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
nbotek AnTM5 Anbot	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anborek TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 1.5. Measurement Uncertainty

Parameter	Uncertainty			
Conducted emissions (AMN 150kHz~30MHz)	3.8dB Anbores Andrew Anbores Anbores			
Occupied Bandwidth	925Hz Anborek Anborek Arborek			
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 Anbotes Anbotek An			
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB			

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





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### 1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anboten	Ant P rek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P PART
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	upor Pk
Number of Hopping Frequencies	Mode4,5,6	Anb P tek
Dwell Time	Mode4,5,6	A'CP
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	PARTE
Band edge emissions (Radiated)	Mode1,2,3	P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Upote P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbo P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbor





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#### 1.7. 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.

#### 1.8. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- The test report is invalid if there is any evidence and/or falsification.
- The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 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.
- 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.
- 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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## 1.9. Test Equipment List

Cond	ucted Emission at A	C power line				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
<u>پر</u> د 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	tek /Anbotek	ak Anbor

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

**Dwell Time** 

Emissions in non-restricted frequency bands

Occupied Bandwidth

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	2023-05-26	2024-05-25
4nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
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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400-003-0500



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	edge emissions (Ra sions in frequency ba		Aupotek	Anborek	Vupotek Vupotek	Aupolek
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
100 100 100 100 100 100 100 100 100 100	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Ans	Anbotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e <sup>k</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emis	sions in frequency ba	ands (below 1GHz)	Anbore	Andhotek	Anboiek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
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



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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 0dBi. It complies with the standard requirement.





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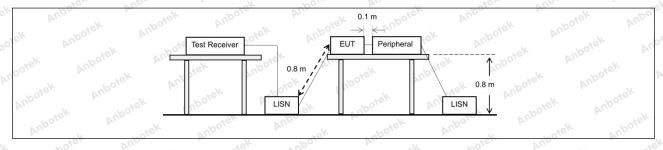
## 3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that my frequency or frequencient t exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as	
spotek Anboy	Frequency of emission (MHz)	Conducted limit (dBµV)		
YII.	Anbore Anbore	Quasi-peak	Average	
Aupor Ar.	0.15-0.5	66 to 56*	56 to 46*	
Test Limit:	0.5-5	56. An	46	
VII.	5-30 And 5	60	50 PER AND	
k Aupor K Ai.	*Decreases with the logarithm of t	he frequency.		
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug	
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un			

## 3.1. EUT Operation

Operating Envi	ronment:	Aupo, ok	bojek .	Aupote,	And	nboiek	Anborr
Test mode:	hopping) w 2: TX-π/4-I (non-hoppi 3: TX-8DP	rith GFSK ma DQPSK (Nor ng) with π/4	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously tran T in continuousl continuously tra	ly transmitting	g mode

## 3.2. Test Setup





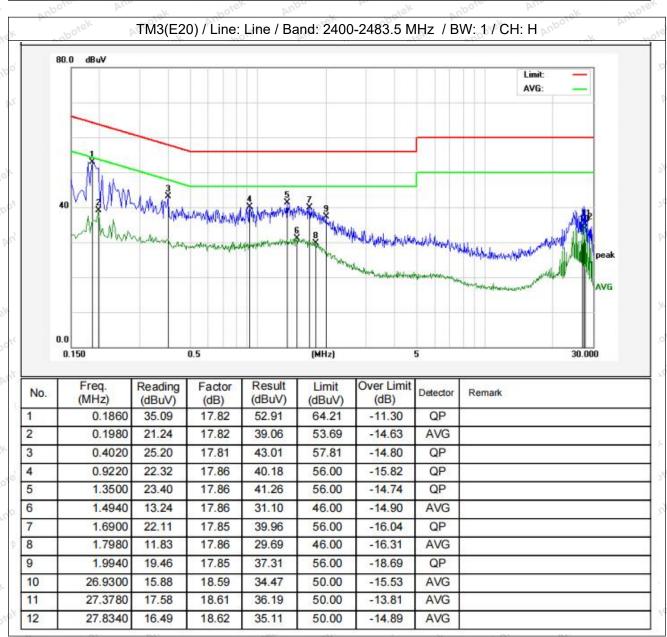
Hotline



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#### 3.3. Test Data

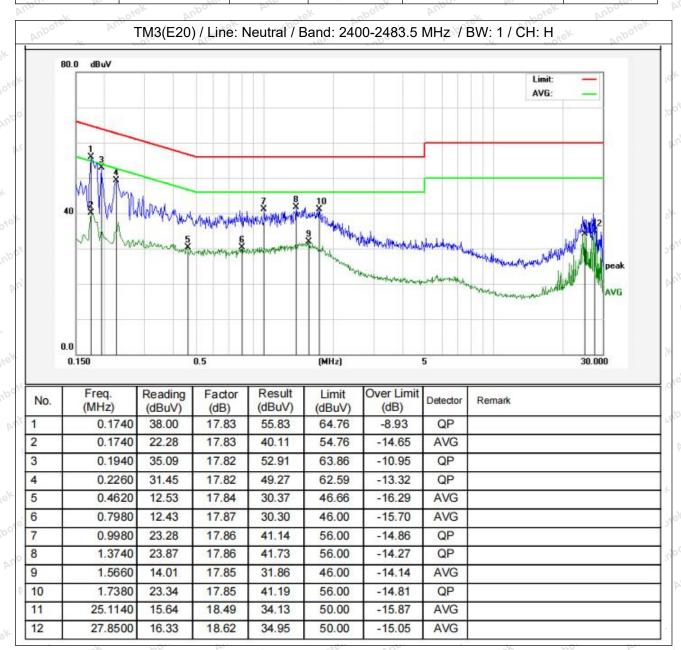
Temperature:	21.4 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure: 101 kPa

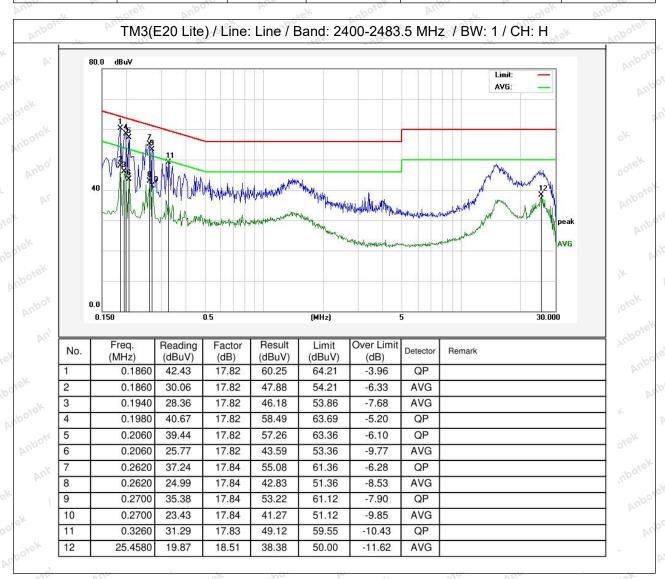






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Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure: 101 kPa

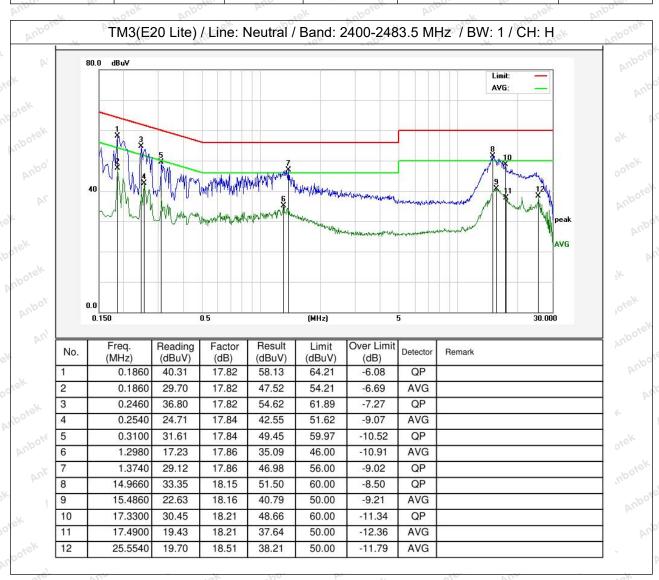






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Temperature: 21.4 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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## 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
rest requirement.	
abotek Anbo.	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
rest Limit.	may otherwise be specified in the specific rule section under which the
	equipment operates, is contained within the frequency band designated in
upotek Aupo,	the rule section under which the equipment is operated.
To Selvetto al Anboren	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.
Anbo	The occupied bandwidth is the frequency bandwidth such that, below its
	lower and above its upper frequency limits, the mean powers are each equal
	to 0.5% of the total mean power of the given emission. The following
	procedure shall be used for measuring 99% power bandwidth:
	a) The instrument center frequency is set to the nominal EUT channel center
	frequency. The frequency span for the spectrum analyzer shall be between
	1.5 times and 5.0 times the OBW.
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
	5% of the OBW, and VBW shall be at least three times the RBW, unless
Sorek Anbore	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
otek Aupa	(OBW/RBW)] below the reference level. Specific guidance is given in
	4.1.6.2.
Dragadura, "otek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	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).
	1 20

## 4.1. EUT Operation

	Operating Envir	onment:	Anboiek	Aupo.	w. spotek	Anbore.	Yun	anboie
e)	Test mode:	1: TX-GFSK hopping) wit			ne EUT in co	ntinuously tra	ansmitting mode	(non-





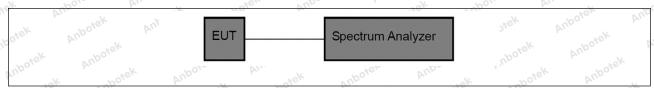


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2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi$ /4 DQPSK modulation.

3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

#### 4.2. Test Setup



#### 4.3. Test Data

Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:  a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time.
Procedure:	e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
	<ul> <li>i) The indicated level is the peak output power, after any corrections for external attenuators and cables.</li> <li>j) A spectral plot of the test results and setup description shall be included in the test report.</li> </ul>
Anbotek Anbotek Anbotek Anbotek	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 Envir	onment: proofer and and the proofer and the pr
Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
ek Wupoje,	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

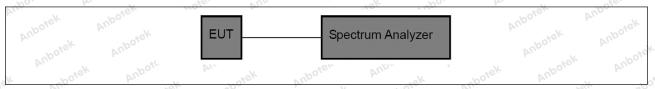






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#### 5.2. Test Setup



#### 5.3. Test Data

10	Tomporatura	25 °C And	Llumiditu	47 %	Atmoonhorio Proceuro:	101 kPa
	Temperature:	25 C	Humidity:	47 70	Atmospheric Pressure:	101 kPa





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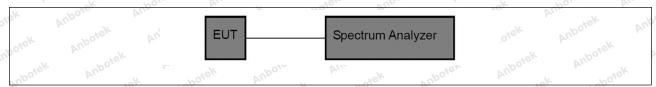
## 6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Anborek	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 included in the test report.

## 6.1. EUT Operation

Operating Envi	ronment:	Anbe	apoiek	Aupor	Ar. hotek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4 DQP 6: TX-8DPSK (Hopping with 8DPSK modulation	ping): Keep the SK modulation. ): Keep the EUT	EUT in cont	inuously trar	smitting mode	ek K

## 6.2. Test Setup



## 6.3. Test Data

,	Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
	1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1000 VV		100	V	Oles I III - Ville









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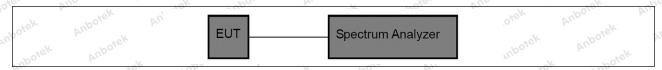
## 7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek	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
Anborek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.  b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.  c) VBW ≥ RBW.  d) Sweep: No faster than coupled (auto) time.  e) Detector function: Peak.  f) Trace: Max-hold.  g) Allow the trace to stabilize.
	It might prove necessary to break the span up into subranges to show 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

Operating Envi	ronment: Anbores Anbores Anbores Anbores Anbores
Test mode:	<ul> <li>4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.</li> <li>5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.</li> <li>6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.</li> </ul>

## 7.2. Test Setup



## 7.3. Test Data

Temperature: 25 °C	Humidity: 47 %	Atmospheric Pressure:	101 kPa
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## 8. Dwell Time

Anbor Arrange	Tubotek Aubo ok hotek Aubor Air sek ubotek
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
Anbotek 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.
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	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.
Procedure:	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:
	<ul> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected transmission time per hop.</li> <li>c) Sweep time: Set so that the start of the first transmission and end of the</li> </ul>
	last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =
	<ul><li>1/hopping rate) should achieve this.</li><li>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</li></ul>
	channel.  e) Detector function: Peak.  f) Trace: Clear-write, single sweep.
Anbotek Anbo	g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between









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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

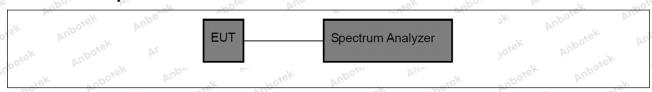
#### Operating Environment:

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

Test mode:

- 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

#### 8.2. Test Setup



#### 8.3. Test Data

-	Temperature:	25 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa	o'i







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## 9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7
nbotek 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.
tek Anbotek Ansotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
ek upotek Anbo	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 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
Anbotek Anbor	measurements a separate spectral plot showing the in-band level shall be provided.
Anbotek	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the 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

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

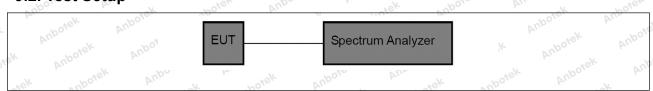
#### 9.1. EUT Operation

#### Operating Environment:

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

#### 9.2. Test Setup

Test mode:



#### 9.3. Test Data

Temperature: 25	5°C	Humidity: 4	17 % Anbo	Atmospheric Pressure:	101 kPa
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## 10. Band edge emissions (Radiated)

restricted bands, as defined	d in § 15.205(a), must also comp	ly with the
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300 Mboto
0.490-1.705	24000/F(kHz)	30
		30
PV. *0.,		3,ek Anbore
M. Lati		3
		3 pore
Above 960	500 And	3 dek and
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 these three bands are base	ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis	e located in the 470-806 MHz. ed under other band edges. measurements uency bands 9—sion limits in
16K 100, D.	6.10ek Anboret Anbo	r potek
- SK - 20010	All Table	YU. YOK
ANSI C63.10-2020 section	6.10.5.2	otek Anbor
	restricted bands, as defined radiated emission limits special Frequency (MHz)  0.009-0.490 0.490-1.705 1.705-30.0 30-88 88-216 216-960 Above 960  ** Except as provided in paintentional radiators operatifrequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasify 90 kHz, 110–490 kHz and at these three bands are based detector.  ANSI C63.10-2020 section	(microvolts/meter)  0.009-0.490 2400/F(kHz) 0.490-1.705 24000/F(kHz) 1.705-30.0 30 30-88 100 ** 88-216 216-960 200 ** Above 960  ** Except as provided in paragraph (g), fundamental emissi intentional radiators operating under this section shall not be frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or However, operation within these frequency bands is permitt sections of this part, e.g., §§ 15.231 and 15.241.  In the emission table above, the tighter limit applies at the bands are based on measurements employing these three bands are based on measurements employing

## 10.1. EUT Operation

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

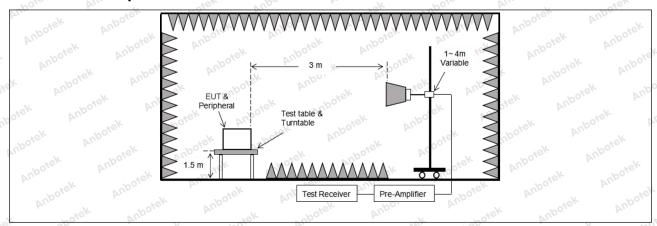






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## 10.2. Test Setup



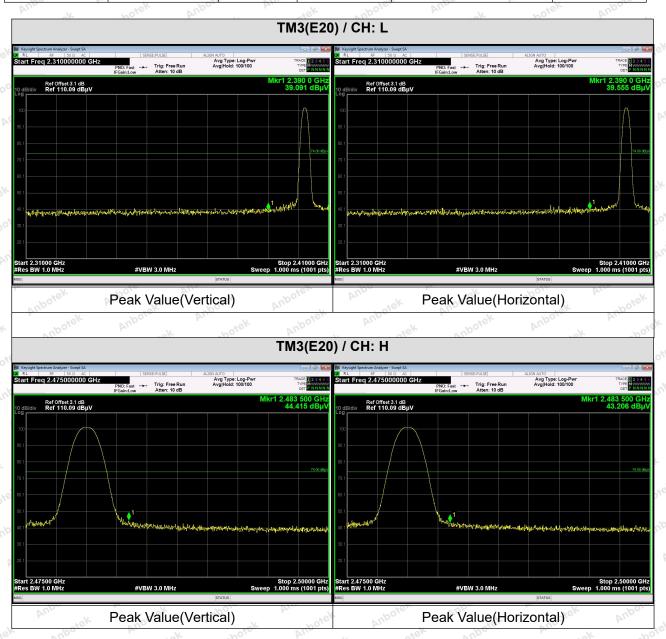




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#### 10.3. Test Data

Temperature: 25 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



#### Remark

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







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

Test Requirement:		In addition, radiated emissions d in § 15.205(a), must also comp	
anbotek Anbo		ecified in § 15.209(a)(see § 15.2	
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. Siek	0.009-0.490	2400/F(kHz)	300 Mbore
abotek Anbo	0.490-1.705	24000/F(kHz)	30
The state of the s	1.705-30.0	30	30 And
Aupor Ar.	30-88	100 **	3,ek nbore
hotek Anbo.	88-216	150 **	3
Ans	216-960	200 **	3 botel And
K Aupon Air	Above 960	500 Lorek Anborr	3 John Mill
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-page 110-490 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	6.6.4	anbores.
Procedure:	ANSI C63.10-2020 section	6.6.4 And	otek Anbotek

## 11.1. EUT Operation

	Operating Envir	onment:					Aupotek	Anbo
20,0	Test mode:	hopping) with 2: TX-π/4-DC (non-hopping	n GFSK modu QPSK (Non-H g) with π/4 DC ( (Non-Hoppi	ulation. lopping): Keep QPSK modula ng): Keep the	the EUT ir	nuously transn n continuously itinuously trans	transmitting	mode

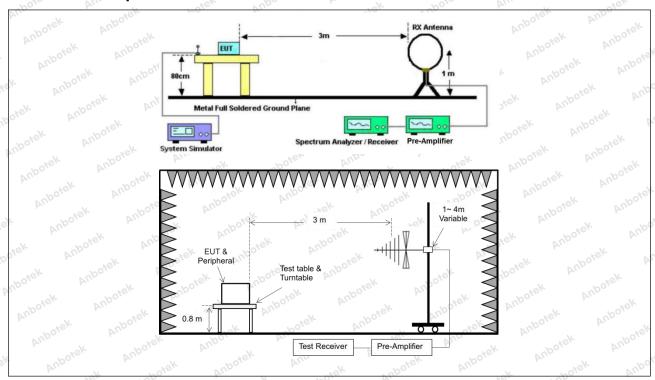






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## 11.2. Test Setup





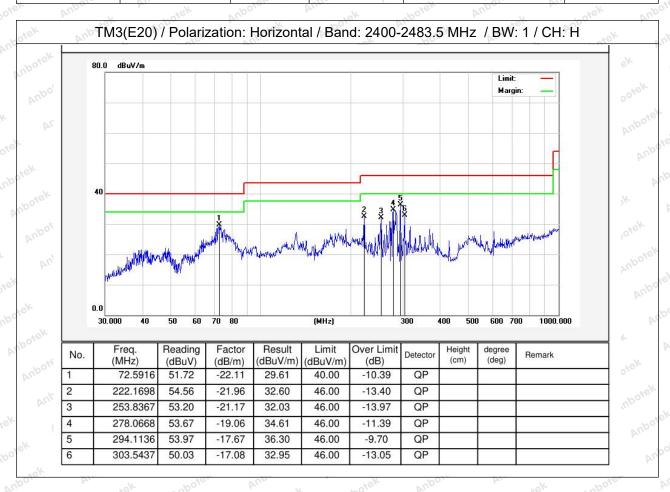


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#### 11.3. Test Data

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

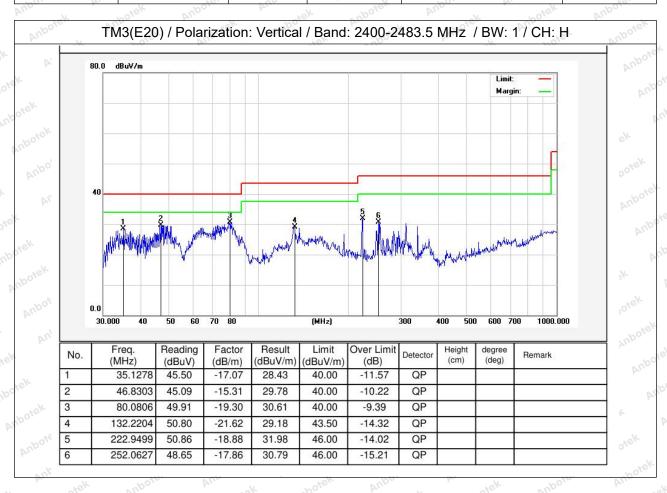
Temperature: 23.5 °C	Humidity:	55%	Atmospheric Pressure:	101 kPa
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Temperature: 23.5 °C Humidity: 55 % Atmospheric Pressure: 101 kPa

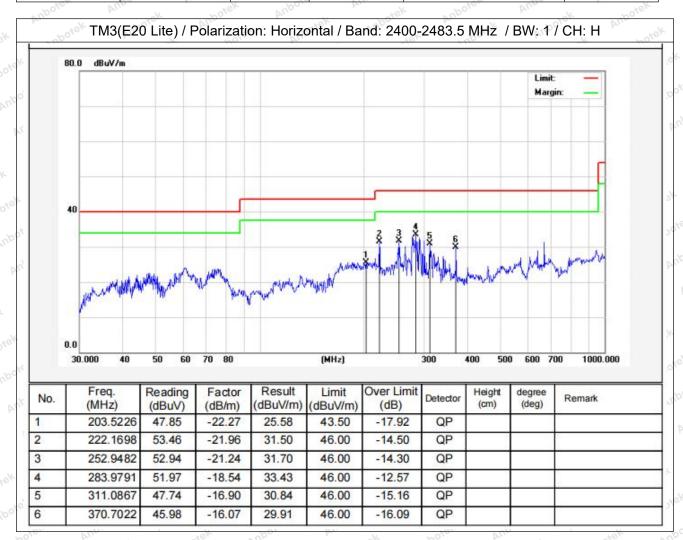






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Temperature: 23.5 °C Humidity: 55 % Atmospheric Pressure: 101 kPa

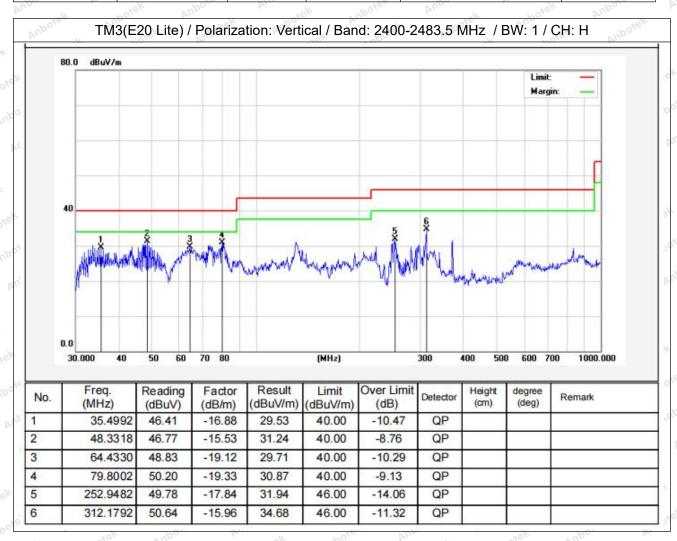






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Temperature: 23.5 °C Humidity: 55 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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

Test Requirement:		ons which fall in the restricted be omply with the radiated emission $\overline{b}(c)$ .	
k Aupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
inpoter Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
Anbo	30-88	100 **	3 ek Anbore
	88-216	150 **	3
	216-960	200 **	3 poie. And
	Above 960	500 More Andre	3 rek
	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above	e, the tighter limit applies at the b	470-806 MHz. ed under other
	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emised and on measurements employing	uency bands 9– sion limits in
Test Method:	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	uency bands 9– sion limits in

## 12.1. EUT Operation

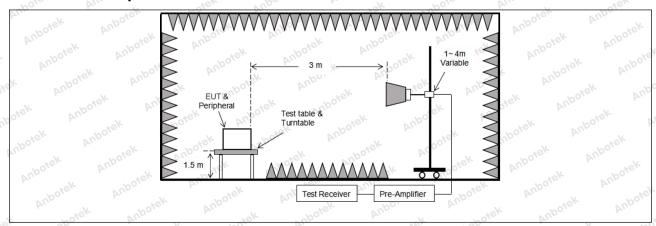
Operating Envi	ronment: And
Test mode:	<ol> <li>TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.</li> <li>TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.</li> <li>TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.</li> </ol>





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## 12.2. Test Setup







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#### 12.3. Test Data

Company of the Compan	Temperature:	25 °C	AUDO	Humidity:	47 %	Atmospheric Pressure:	101 kPa	
П				(6. 1 a. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1		7 101110001101110111011		

Viu.	Potek Pup.		rick upor	And	ok hotek	Anbo.
		TM	3(E20) / CH: L	-		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.23	15.27	44.50	74.00	-29.50	Vertical
7206.00	30.04	18.09	48.13	74.00	-25.87	Vertical
9608.00	31.57	23.76	55.33	74.00	-18.67	Vertical
12010.00	Anbore * Ar	is ex	botek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*SIE	Vupo. ok	Polek b	74.00	rick not	Vertical
4804.00	29.43	15.27	44.70	74.00	-29.30	Horizontal
7206.00	30.98	18.09	49.07	74.00	-24.93	Horizontal
9608.00	29.12	23.76	52.88	74.00	-21.12	Horizontal
12010.00	otek * Aupo	-K 20	ick Aupote	74.00	- nbotek	Horizontal
14412.00	hotek* An	port Ant	iek abo	74.00	ok hore	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	polarization
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	•
4804.00	18.61	15.27	33.88	54.00	-20.12	Vertical
7206.00	19.07	18.09	37.16	54.00	-16.84	Vertical
9608.00	20.59	23.76	44.35	54.00	-9.65	Vertical
12010.00	NO 18K	Yupole, Vu	iek	54.00 pho	- N	Vertical
14412.00	Ans *	nbotek	Aupo	54.00	Pose Aug	Vertical
4804.00	17.78	15.27	33.05	54.00	-20.95	Horizontal
7206.00	20.04	18.09	38.13	54.00	-15.87	Horizontal
9608.00	18.43	23.76	42.19	54.00	-11.81	Horizontal
12010.00	*** * **	otek Anbo.	Pr.	54.00	Aug	Horizontal
14412.00	V/00, *	hotek Ant	Jose And	54.00	ek Aupo	Horizontal





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		TM	3(E20) / CH: N	Λ		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.25	15.42	44.67	74.00	-29.33×nb	Vertical
7323.00	29.89	18.02	47.91	74.00	-26.09	Vertical
9764.00	30.58	23.80	54.38	74.00	-19.62	Vertical
12205.00	ek * spotek	Aupor	h worek	74.00	Ans	Vertical
14646.00	*	lek Wupose	Pun de	74.00	Aupo	Vertical
4882.00	29.13	15.42	44.55	74.00	-29.45	Horizontal
7323.00	30.97	18.02	48.99	74.00	-25.01	Horizontal
9764.00	28.82	23.80	52.62	74.00	-21.38	Horizontal
12205.00	*otek	Vupoje.	Aug	74.00	YUpor by	Horizontal
14646.00	AT.	nbotek	Aupo.	74.00	Aupoter	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	54.00	-20.24	Vertical
7323.00	19.17	18.02	37.19	54.00	-16.81	Vertical
9764.00	20.45	23.80	44.25	54.00	-9.75	Vertical
12205.00	k *upor	An Siek	anbotek	54.00	borek	Vertical
14646.00	otek * Anbot	And	sk spojek	54.00	bu. Poick	Vertical
4882.00	17.69	15.42 no	33.11	54.00	-20.89	Horizontal
7323.00	19.60	18.02	37.62	54.00	-16.38	Horizontal
9764.00	18.94	23.80	42.74	54.00	-11.26	Horizontal
12205.00	anb*otek	Aupo	abotek	54.00	otek D	Horizontal
14646.00	* week	Aupor	K. K.	54.00	VUD.	Horizontal



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V. Vu.	-iek	TA	0/500) / 011-1	- hote	Arra	~iek
		I IVI	3(E20) / CH: H	1		
Peak value:				<u> </u>		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.52	15.58	45.10	74.00	-28.90	Vertical
7440.00	29.90	17.93	47.83	74.00	-26.17	Vertical
9920.00	31.13	23.83	54.96	74.00	-19.04	Vertical
12400.00	* * otek	anbotes	Anb	74.00	Anbor	Vertical
14880.00	* And	iek Spojek	, Aupo,	74.00	Aupote.	Vertical
4960.00	29.20	15.58	44.78	74.00	-29.22	Horizontal
7440.00	31.00	17.93	48.93	74.00	-25.07	Horizontal
9920.00	29.50	23.83	53.33	74.00	-20.67	Horizontal
12400.00	Vup.*	abotek	Vupo,	74.00	inpose, Vu	Horizontal
14880.00	V. Apo,	h, hotek	Anbore	74.00	abotek	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	-18.96	Vertical
7440.00	20.18	17.93	38.11	54.00	-15.89	Vertical
9920.00	21.00	23.83	44.83	54.00	-9.17	Vertical
12400.00	* * Shorek	Aupor	hotek hotek	54.00	Aug	Vertical
14880.00	* * *	k Aupolo.	Aug	54.00	Vupo.	Vertical
4960.00	19.13	15.58 , 100	34.71	54.00	-19.29	Horizontal
7440.00	20.97	17.93	38.90 x <sup>100</sup>	54.00	-15.10\oo <sup>te</sup>	Horizontal
9920.00	18.84	23.83	42.67	54.00 And	÷11.33	Horizontal
12400.00	* tek	Anbores	Aug.	54.00	ipo. bis	Horizontal
14880.00	An*	anbotek	Aupo	54.00	Aupole	Horizontal

#### Remark:

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







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#### APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

#### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

#### APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

