

# FCC Test Report

**Applicant MKETech Electronics** 

2000 South Grove Avenue, Suite 109, Ontario, **Address** 

California, United States

**Product Name** Wireless keyboard

Sept. 18, 2024 **Report Date** 



Shenzhen Anbotek Compliance Laboratory Limited







# **Contents**

1. General Information	Wipolek	Anbo	······	,ote <sup>k</sup>	Anbore	Wolek.	6
1.1. Client Information	EUT)ed During T	est	ootek Anbotek		ok Russ		6 8 8
1.8. Description of Test Facil 1.9. Disclaimer 1.10. Test Equipment List 2. Antenna requirement 2.1. Conclusion 3. Conducted Emission at AC por 3.1. EUT Operation 3.2. Test Setup 3.3. Test Data 4. Occupied Bandwidth 4.1. EUT Operation 4.2. Test Setup 4.3. Test Data 5. Maximum Conducted Output F 5.1. EUT Operation 5.2. Test Setup 5.3. Test Data	lity		el	Auparek Polek	kopolek Popolek		10 10 11
2.1. Conclusion	Vak Vupo		Pupole <sub>k</sub>	Anbore	lek Vilo	rek b	<sup>100</sup> 13
3. Conducted Emission at AC por	wer line	,, olek	Aupolek	Anb	-10/	'upotek	14
3.1. EUT Operation	hupology Anodos	Will of the state	, Anuo	*polek			14 14 15
4. Occupied Bandwidth	- Kupo <sub>ler</sub>	Anv	/6k	- Wedlek	Vupo.		.:વે7
4.1. EUT Operation	70/r b			Ansonia Ans	Anbore otek An	otek Vii	17 18 18
5. Maximum Conducted Output F	ower	Kupoje	An	//e/	<sup>VVPO</sup> IEK	Vup.	19
5.1. EUT Operation			olo <sub>k</sub> Vup.	"100/ek	Anbolek Mootek	Anbole Anbole	19 19 19
6. Channel Separation	Am		Anbotek.	Anbe	,	k Anl	20
6.2. Test Setup	70,60 <sub>k</sub>	HOD.	, abotel	μη. Απ	,0,	botek	20
7. Number of Hopping Frequenci	ies	VII	k	Ofer	V <sub>UD</sub>	, npotek	21
7.1. EUT Operation 7.2. Test Setup 7.3. Test Data		K		Amoolek Amoolek	Anootok	ek Anbol	21 21 21
8. Dwell Time	, K	ofer	Aur.	, bot	ek Anbo		22
7. Number of Hopping Frequenci 7.1. EUT Operation		100 da K	Anbo Meboli		40000000000000000000000000000000000000		23 23
9. Emissions in non-restricted fre	equency ba	nds	e. Vu		Alipotek	Anbo	24
9.1. EUT Operation 9.2. Test Setup 9.3. Test Data	Am Anbol	8.07g/ 04	400000	Aupolek		Yes V	25 25
10. Band edge emissions (Radia	ted)		Popolek	Ano		upote <sub>K</sub>	26
10.1. EUT Operation	upoter.	Aun 10k	od <sub>1,0</sub>	ek Þ	upo.	Wolek	26







otek

Anbotek

Anbotek

Anbotek

Anbotek

nbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anborek

Anbotek

Anbotek

Anbotek

Anbotek

# Report No.: 182512C400308102

Anbote

Page 3 of 36

ECC ID: 2BDY9-MKE100

P	Ann Total October Ambour	1 00 10. 200 13	-WINCE 100	ALL	Potek Vi	<sup>1</sup> / <sub>D</sub> C
	10.2. Test Setup 10.3. Test Data	ek			,nv	26 27
otek	11. Emissions in frequency bands	(below 1GHz)	W. Wolek	Anboten	Anu	28 Anb
Anborek	11.1. EUT Operation 11.2. Test Setup 11.3. Test Data					28 29 30
VIII	12. Emissions in frequency bands	(above 1GHz)	Yupo, b	1016 4310	ote, Yun	32
k-	12.1. EUT Operation 12.2. Test Setup 12.3. Test Data	iek Andolek	Anbore	Ambotek		32 32
10K	And	700°	Ann	Allestek	3	33
20.	APPENDIX I TEST SETUP PHO APPENDIX II EXTERNAL PHOT		ION AND	jtek Anbotek		36 36
Vupo.	APPENDIX III INTERNAL PHOT		101 V		V	36

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek



Page 4 of 36

FCC ID: 2BDY9-MKE100

**Applicant MKETech Electronics** 

Manufacturer Dongguan ShangGui Electronics Co., Ltd.

**Product Name** Wireless keyboard

Model No. MKE100

Trade Mark

Input: 5V -- 250mA Rating(s)

Battery Capacity: DC 3.7V, 4000mAh

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:	Jun. 21, 2024
Aupotek Aupote Ar Potek Aupotek	Aug. Stek Aupotek Vupo.
Date of Test:	Jun. 21, 2024 to Jul. 25, 2024
Aupolek Aupolek Aupolek Aupolek	Tu Tu Hong
Prepared By:	upoles Am alek O Aupoles Aug
po sek Anbotek Anbote All Anbotek	(TuTu Hong)
Aupotek Aupotek Aupotek Aupotek	Bolward pan
Approved & Authorized Signer:	William Work
ok holek Aupo	(Edward Pan)





Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

nbotek

Anbotek

otek

Anbotek

Anborek

Anbotek

Report No.: 182512C400308102

FCC ID: 2BDY9-MKE100 **Revision History** 

Page 5 of	36	
-----------	----	--

Anbotek

Anbotek

Anbotek

Anbolek

Anbotek

Anborek

Anbotek

Anbotek

Anbotek

Anbotek

potek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbolek

Anbotek

potek	Report Versi	on	Descripti	on	Is	sued Date	
Anborek	R00	v upolek	Original Iss	sue.	Sep	ot. 18, 2024	Anbotek
Anbr	Yek Anboniek	Anbotek	Aupole Au	Anbolek	Aupolek	Augustok	Anbo'
	upote Augustek	Anbore	Aug Polek	Anbotek	Aupor	Aupotek	V,

Anbotek

**Shenzhen Anbotek Compliance Laboratory Limited** 

Anbotek

Anbotek

Anbotek

bolek





Page 6 of 36

FCC ID: 2BDY9-MKE100

# 1. General Information

# 1.1. Client Information

Applicant	: MKETech Electronics	-tek
Address	: 2000 South Grove Avenue, Suite 109, Ontario, California, United State	S
Manufacturer	: Dongguan ShangGui Electronics Co.,Ltd.	Aupo
Address	Room 101,No.7, Yincheng 7nd Road.,Xiabian Village, Chang'an Town,Dongguan City, GuangDong Province, China	P.
Factory	: Dongguan ShangGui Electronics Co.,Ltd.	V
Address	Room 101,No.7, Yincheng 7nd Road.,Xiabian Village, Chang'an Town,Dongguan City, GuangDong Province, China	oter

# 1.2. Description of Device (EUT)

IN A		70. K. 10. VI.
Product Name	:	Wireless keyboard
Model No.	:	MKE100
Trade Mark	:	N/A Ambotek Anbotek Anbo
Test Power Supply	:	DC 5V from adapter input AC 120V,60Hz/DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A ot Anbotek Anbotek Anbotek Anb
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	16 And Stek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK And Lek Andolek Andole Andole Andole
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)		2.94dBi

#### 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.







Anborek

Report No.: 182512C400308102

Anbotek

Anbote

Page 7 of 36

FCC ID: 2BDY9-MKE100

Anbotek

### 1.3. Auxiliary Equipment Used During Test

Anbotek

Anbotek

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

Anbolek Anbotek Anbotek

**Shenzhen Anbotek Compliance Laboratory Limited** 



Hotline



Page 8 of 36

FCC ID: 2BDY9-MKE100

### 1.4. Operation channel list

# Operation Band:

0.00	1/11	2.6	7.0
Channel	Frequency (MHz)	Channel	Frequency (MHz)
ek O Anb	2402	10	2444
notek 1	2408	11 <sub>k</sub>	2448
2	2410	12	2454
Anba 3 stek	2414	13	2466
4	2420	14 Anbo	2468
5 Anbox	2428	otek 15 A	2480
6 An	2434	Aupolek	Aupole
nbotek 7	2436	Aupolek .	Aupolen
And 8 ok	2440	Anbotek	Aupoter
9, botek	2442	k up	tek Aupo

# 1.5. Description of Test Modes

Pretest Modes	Descriptions
Motek TM1nbotek A	Keep the EUT in continuously transmitting mode (non-hopping).
TM2	Keep the EUT in continuously transmitting mode (hopping).

# 1.6. Measurement Uncertainty

	Z, 65, 70b	_V				
	Parameter	Uncertainty				
P.	Conducted emissions (AMN 150kHz~30MHz)	3.4dB				
	Occupied Bandwidth	925Hz Anbotek Anbotek Anbotek				
	Conducted Output Power	0.76dB Andores Annual A				
16	Conducted Spurious Emission	1.24dB				
00	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.





Anbo





otek

Anbotek

Anbotek

nbotek

Anbotek

Anbotek

otek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Report No.: 182512C400308102

Anbotek

Page 9 of 36

Anbol

Anbotek

FCC ID: 2BDY9-MKE100

# 1.7. Test Summary

Anborek

Anbotek

Anbotek

Test Items	Test Modes	Status
Antenna requirement	otek Anbotek	Aupo, b
Conducted Emission at AC power line	Mode1	Aupo 10
Occupied Bandwidth	Mode1	Pupor
Maximum Conducted Output Power	Mode1	ek P M
Channel Separation	Mode2	porek P
Number of Hopping Frequencies	Mode2	Anbotek
Dwell Time	Mode2	An Brek
Emissions in non-restricted frequency bands	Mode1,2	Panbol
Band edge emissions (Radiated)	Mode1	VEK P
Emissions in frequency bands (below 1GHz)	Mode1	notek P
Emissions in frequency bands (above 1GHz)	Mode1	, Pr
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek	Anbotek

Anbotek

Anb

Anbotek

Anbotek

Anbotek



Anborek



Page 10 of 36

FCC ID: 2BDY9-MKE100

#### 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.
- 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.





Page 11 of 36

FCC ID: 2BDY9-MKE100

# 1.10. Test Equipment List

000	, ak	-Por		. Vier	VUL	Ja.
Cond	ucted Emission at A	C power line	Inpoten b	ups	Anbotek	Aupo.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
ek 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
1,10°2°1×	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Anb aboxk	Anborek
4	FMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

**Dwell Time** 

Emissions in non-restricted frequency bands

		201	2. 45.57		14 U	P7
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
botel	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
An 2 tel	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3,10	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
obotek	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

	sions in frequency ba edge emissions (Ra		"upoler V	up upotek	Anborek	Auporpolek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
ie <sup>k</sup> 1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
nbo2 <sup>k</sup>	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
A301	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4 🔊	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupolo	Aup Vek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Anbox 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06









Anb

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anborek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Report No.: 182512C400308102

Anbote

Page 12 of 36

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

FCC ID: 2BDY9-MKE100

100.	40.	FCCID. 2	DD I 9-IVINE	IOO TUD		odn you
Emiss	sions in frequency ba	ands (below 1GHz)	Her And	orek	Anbotek A	100, K
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
3×	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4 of	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupolek	Anbo

Anbotek

Anbotek

Anbotek

Anbotek





FCC ID: 2BDY9-MKE100

# 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.

Page 13 of 36

#### 2.1. Conclusion

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 2.94dBi . It complies with the standard requirement.



Page 14 of 36

Anbe

FCC ID: 2BDY9-MKE100

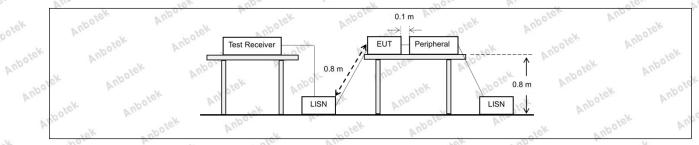
# 3. Conducted Emission at AC power line

Anbotek Anbo	Refer to 47 CFR 15.207(a), Excepsection, for an intentional radiator public utility (AC) power line, the r	that is designed to be cor	nnected to the
Test Requirement:	back onto the AC power line on a band 150 kHz to 30 MHz, shall no measured using a 50 μH/50 ohms (LISN).	ot exceed the limits in the t	following table, as
rotek Auport	Frequency of emission (MHz)	Conducted limit (dBµV)	Anbo
Ano. L Lot	Aupo, W. Tek	Quasi-peak	Average
- abotek And	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56	46
Aupor W.	5-30	60 Moter Anti	50
rek supotek	*Decreases with the logarithm of	the frequency.	upoter Aug
Test Method:	ANSI C63.10-2020 section 6.2	Polek Yupp	anbotek Ant
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		od for ac power-

# 3.1. EUT Operation

Operating Envir	onment:	abotek	Auporo	VI. Otok	Anboten	Ano
Test mode:	1: TX (Non-Ho	pping): Keep the	e EUT in contin	uously transmitt	ing mode (nor	J- Vupo.
	hopping).	ek aupon	A. vel	k abole	Alle	4

### 3.2. Test Setup





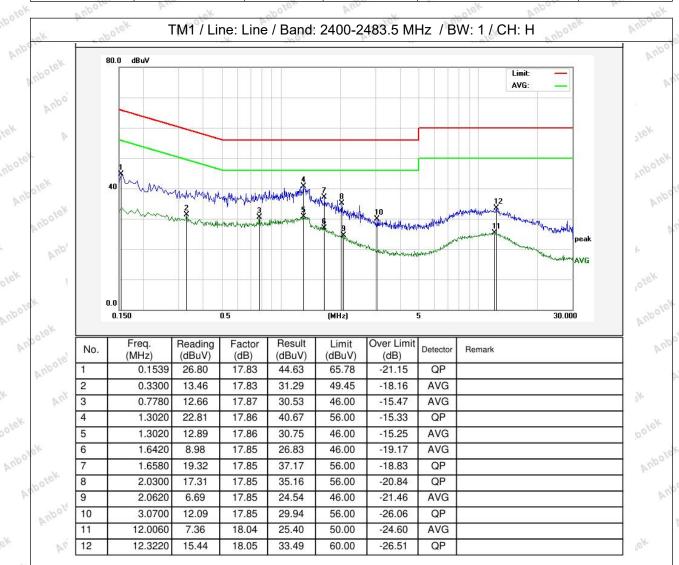


FCC ID: 2BDY9-MKE100

Page 15 of 36

### 3.3. Test Data

Temperature: 24.5 °C Humidity: 52 % Atmospheric Pressure: 101 kPa





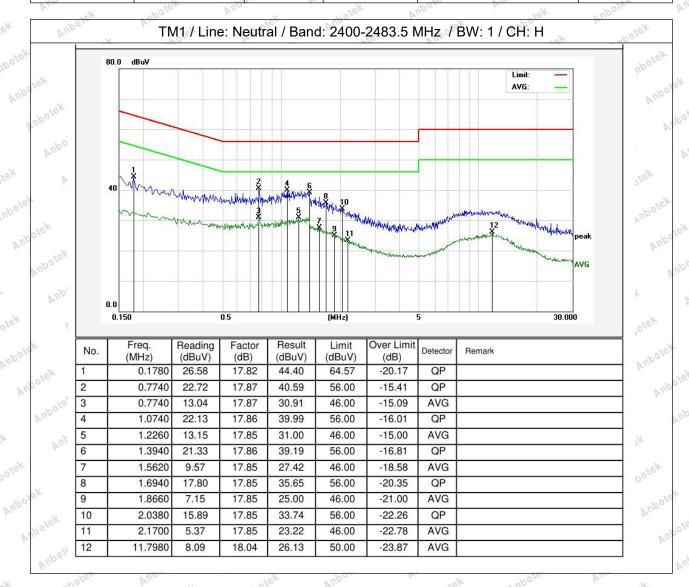




Page 16 of 36

FCC ID: 2BDY9-MKE100

Temperature: 24.5 °C Humidity: 52 % Atmospheric Pressure: 101 kPa









Page 17 of 36

FCC ID: 2BDY9-MKE100

# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
hotek Anbotek	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
Anbotek Anbotek Anbote	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.
inbotek Anbotek	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:	<ul> <li>d) Step a) through step c) might require iteration to adjust within the specified range.</li> <li>e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold</li> </ul>
Aupotek Aupotek	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
Anbotek Anbo	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 repeated on the upper frequency. The 2006
Anbotek Anbotek	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
Anbotek Anbo	the plot(s).

# 4.1. EUT Operation

	101	200	· V	100	Dr.	185	V U.D.
0,	Operating Envir	onment:	Aupolen	Aug	anbotek	Aupo	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
	Test mode:	1: TX (Non-Hop) hopping).	oing): Keep the	EUT in continu	ously transmitti	ng mode (non-	r VIII







Anbotek

Anbotek

Anbotek

Anbotek

Report No.: 182512C400308102

FCC ID: 2BDY9-MKE100

Anbotek

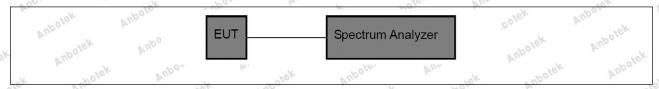
Anbotek

Anbotek

Anbotek

### Page 18 of 36

### 4.2. Test Setup



#### 4.3. Test Data

Temperature: 25.5 °C Humidity: 47.% Atmospheric Pressure: 101 kPa	La U		7. 7.1.		- Ch	5.7
Trinbulature. 120.0 C Triulliuity. 17770 Attibospileile Hossuic. 140 Ki a	Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.

**Shenzhen Anbotek Compliance Laboratory Limited** 

Anbotek

Anbotek





Page 19 of 36

FCC ID: 2BDY9-MKE100

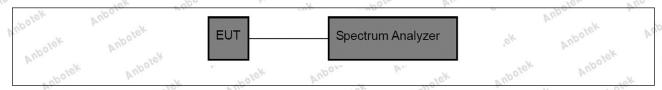
# 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Anbotek	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.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	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
botek Anbotek	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

# 5.1. EUT Operation

Operating Envi	ronment:	who tok	Anbore	Vun Viek	Aupolek	Anbo
Test mode:	1: TX (Non-l- hopping).	lopping): Kee	p the EUT in	continuously tr	ansmitting mod	de (non-

# 5.2. Test Setup



#### 5.3. Test Data

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

Please Refer to Appendix for Details.

#### **Shenzhen Anbotek Compliance Laboratory Limited**







6. Channel Separation

Report No.: 182512C400308102

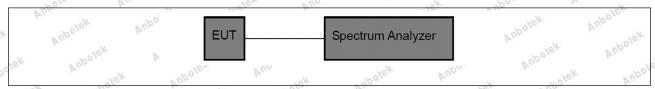
### Page 20 of 36 FCC ID: 2BDY9-MKE100

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  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 KDB 558074 D01 15.247 Meas Guidance v05r02
Otek Anbotek 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 Envi	ironment:	potek	Aupoto	Yun Viek	Aupolek	Aupa
Test mode:	2: TX (Hopping): K	eep the EUT in	continuously t	ransmitting mo	de (hopping).	Aug

# 6.2. Test Setup



#### 6.3. Test Data

Temperature:	25.5 °C	Humidity	': 47 %	Atmospheric Pressure:	101 kPa	
40.	F-11/2	- //	-67-0		120.7	

Please Refer to Appendix for Details.





Page 21 of 36

FCC ID: 2BDY9-MKE100

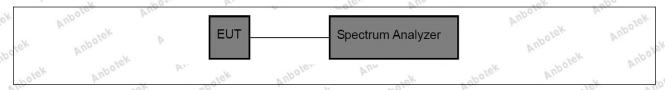
# 7. Number of Hopping Frequencies

Ann rek	The solution of the solution o
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	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.  It might prove necessary to break the span up into subranges to show 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 Environment:	Vupolek	Aupo	potek	Aupolo	V. Olek	AN
Test mode: 2: TX (H	opping): Ke	ep the EUT in o	continuously tra	nsmitting mo	de (hopping).	

### 7.2. Test Setup



#### 7.3. Test Data

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

Please Refer to Appendix for Details.









FCC ID: 2BDY9-MKE100

# Page 22 of 36

# 8. Dwell Time

And DWCII THITC	apole	VI.	Poter	And	, alek
Test Requirement:	47 CFR 15.247	′(a)(1)(iii)	Aur	Aupolek	Anbo
Test Limit:	2483.5 MHz ba occupancy on a period of 0.4 se employed. Fred		least 15 chanr all not be great d by the numb systems may	nels. The averager than 0.4 seconder of hopping clayer of hopping clayer avoid or suppre	ge time of onds within a nannels
Test Method:		2020, section 7.8 01 15.247 Mea		5r02 Anbotek	k Auporek
ek Anbotek Anbotek	transmission to a single transm transmission. It	nission per hop t f the device has easured from th	ast transmissi hen the dwell a multiple trar	on for that hop. time is the dura nsmissions per h	If the device has tion of that nop then the
ek Anbotek Anbotek	over an observ determine the t measure both t	cupancy is the to ation period spe time of occupan the dwell time po specific channe	ecified in the re cy the spectru er hop and the	egulatory require m analyzer will number of time	ement. To be configured to
Procedure:	requirements s number of char the number of based on the n dwell times per for 1, 3 or 5 tim	have its hopping hall be made with hall be made. It channels than continum number channel (example slots) then methe minimum number the minimum necessity.	th the minimur f the dwell time ompliance with r of channels. ple Bluetooth o easurements c	n and with the reper channel done the requirement the device supplies to be limited to	naximum  pes not vary with  nts may be  pports different  ell on a channel
Anbotek Anbotek	hop: National American	Anbotek	Anbo	Anbotek	e dwell time per
Aupotek Aupo	b) RBW shall b set >> 1 / T, wh	span, centered one ≤ channel spanere T is the exp Set so that the	cing and wherected transmis	re possible RBV ssion time per h	
otek Anbotek	last transmission be slightly long	on for the hop a er than the hop should achieve	e clearly captu ping period per	ured. Setting the	sweep time to
Anbotek Anbotek	the transmission to reduce the c		erved. The trig	ger level might	o that the start o need adjustmen an adjacent
otek Aupolek		ction: Peak. write, single sw ers at the start o		mission on the o	channel and at
Anbotek Anbotek		ast transmissio			

### **Shenzhen Anbotek Compliance Laboratory Limited**





Page 23 of 36

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.

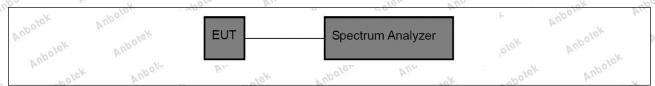
# 8.1. EUT Operation

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
70.		1 1 1 1 1 1 1 1 1 1 1 1 1	120		

Please Refer to Appendix for Details.





# 9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	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.  ANSI C63.10-2020 section 7.8.7
restriction.	KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbote  Anbotek Anbotek Antotek	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.
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.
Procedure:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	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.
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 300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious

#### **Shenzhen Anbotek Compliance Laboratory Limited**





Page 25 of 36

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.

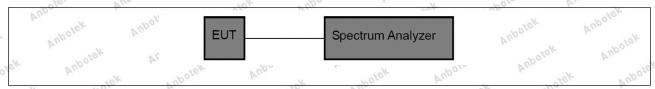
For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

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 Envir	onment:	And	Aupotek	Anbo	-ak	, nootek	Aupore
C.	Test mode:	1: TX (Non-Hop	oping): Keep t	the EUT in co	ntinuously	transmit	ting mode (no	on- Anbote
n)	Electric Division	hopping). 2: TX (Hopping	): Keep the E	UT in continue	ously trans	mitting n	node (hoppin	ng). 🔼 🔼

#### 9.2. Test Setup



#### 9.3. Test Data

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

Please Refer to Appendix for Details.



Page 26 of 36

FCC ID: 2BDY9-MKE100

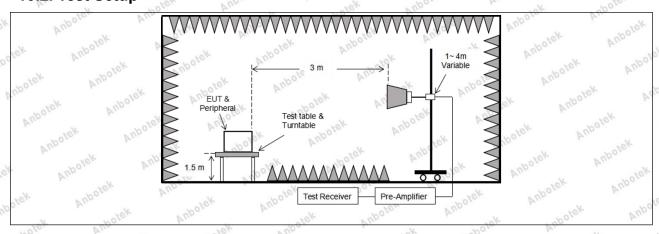
# 10. Band edge emissions (Radiated)

shotek Anbo		d), In addition, radiated emission	
Test Requirement:		ied in § 15.205(a), must also cor specified in § 15.209(a)(see § 15	
tek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
upore Air	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Anbotek Anbo	1.705-30.0 30-88	30 100 **	30
Aupolek b	88-216 216-960 Above 960	150 ** 200 ** 500	3 Anbo
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators oper frequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table about The emission limits show employing a CISPR quast 90 kHz, 110–490 kHz and	paragraph (g), fundamental emisating under this section shall not all the paragraph (g), fundamental emisating under this section shall not all the paragraph (g), for the section of the form of the above table are based of above 1000 MHz. Radiated emised on measurements employing	be located in the or 470-806 MHz. nitted under other band edges. on measurements equency bands 9—nission limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247		Aupote,
Procedure:	ANSI C63.10-2020 section	on 6.10.5.2	oter Aup

# 10.1. EUT Operation

Operating E	nvir	onment:	Anbotek	Anbor	A. abolek	Aupore.	bu.
Test mode:	AT	1: TX (Non-Hopp	oing): Keep the I	EUT in continuo	usly transmitting	g mode (non-	k Vu

# 10.2. Test Setup





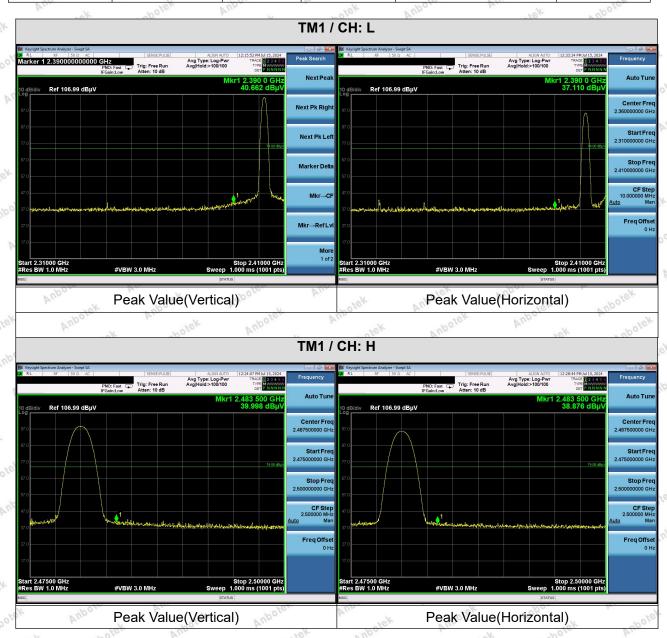




FCC ID: 2BDY9-MKE100

#### 10.3. Test Data

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



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







Page 27 of 36



Page 28 of 36

FCC ID: 2BDY9-MKE100

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

VUL FOX	2000	K POLO VIII	Vier.
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
tek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
upore Air	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Anbore ok Air	1.705-30.0	30	30
Anbore. Ans	30-88	100 **	3
Anbotek Ant	88-216 216-960	150 ** 200 **	3
ek abotek	Above 960	500	n3 rek Anbe
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	intentional radiators operative frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-90 kHz, 110–490 kHz and	aragraph (g), fundamental emiss ting under this section shall not be dz, 76-88 MHz, 174-216 MHz or these frequency bands is permit §§ 15.231 and 15.241. The entire tighter limit applies at the bein the above table are based on peak detector except for the free above 1000 MHz. Radiated emisted on measurements employing	pe located in the 470-806 MHz. ted under other pand edges. measurements quency bands 9— ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N		Anbolek
Procedure:	ANSI C63.10-2020 section	6.6.4	YUB COK

# 11.1. EUT Operation

Anbotek

Operating Er	nvironment:	Anbotek	Anbo	abotek	Aupor	Ъ.
Test mode:	1: TX (Non-Hopping	g): Keep the EU	T in continuously	y transmitting	mode (non-	Vu
Pupo	hopping).	br.	Poler	Ans	Yor	-





Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Report No.: 182512C400308102

FCC ID: 2BDY9-MKE100

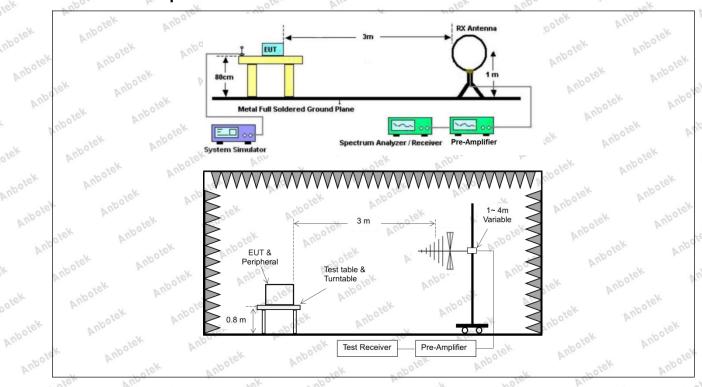
Anbotek

Anbotek

Anbotek

### Page 29 of 36

#### 11.2. Test Setup



### **Shenzhen Anbotek Compliance Laboratory Limited**

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek





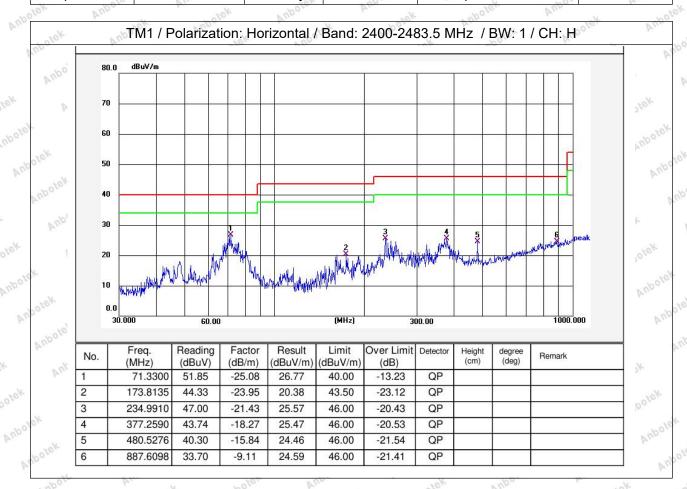
11.3. Test Data

Report No.: 182512C400308102

### Page 30 of 36 FCC ID: 2BDY9-MKE100

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

23.5 °C Temperature: 49 % 101 kPa Humidity: Atmospheric Pressure:



#### **Shenzhen Anbotek Compliance Laboratory Limited**

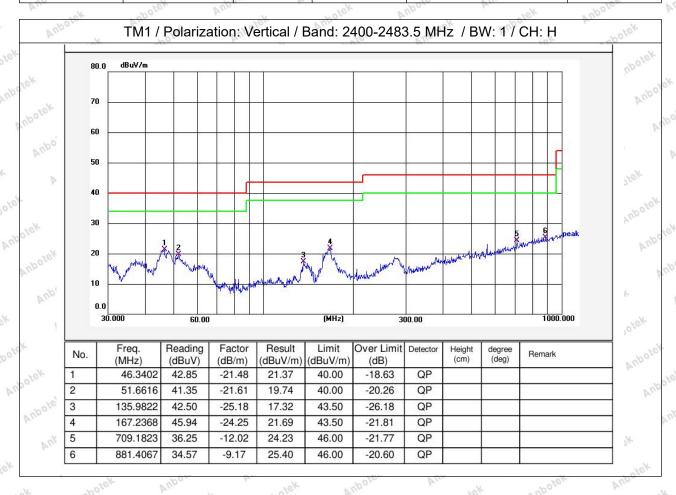




Page 31 of 36

FCC ID: 2BDY9-MKE100

Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 101 kPa







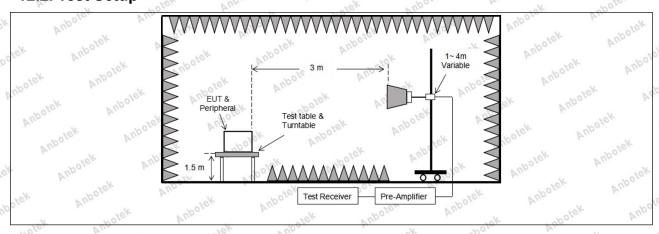
# 12. Emissions in frequency bands (above 1GHz)

Upotek Vupotek	0.009-0.490 0.490-1.705	(microvolts/meter)  2400/F(kHz)  24000/F(kHz)	distance (meters) 300 30
Anborek Anborek	1.705-30.0 30-88 88-216	30 100 ** 150 **	30 3
Anbotes And	216-960 Above 960	200 ** 500	3
Test Limit:	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b Iz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt 8 15 231 and 15 241	e located in the 470-806 MHz.
Anbotek Anbotek Anbo	In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	e, the tighter limit applies at the bin the above table are based on peak detector except for the frequebove 1000 MHz. Radiated emised on measurements employing	measurements uency bands 9– sion limits in
Aupotek Aupote,	detector.  ANSI C63.10-2020 section	Aug Tek Pupolek	Aupo Polek
Test Method:	KDB 558074 D01 15.247 M	. 0 .	V.Up

# 12.1. EUT Operation

	- Ma		0/2	D. 1.	10.7	- 475
Operating Er	vironment:	Anbotek	Aup	abotek	Anbor	br.
Test mode:	1: TX (Non-Hopp	ing): Keep the E	UT in continuou	usly transmittin	g mode (non-	Vu.
Tool Inodo.	hopping).	View View	a'e'	r Vupo		1/4

# 12.2. Test Setup









Report No.: 182512C400308102

Page 33 of 36

FCC ID: 2BDY9-MKE100

### 12.3. Test Data

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

A.	pole	AUG	"otek	Anbo	L LOK	nbore
		•	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.64	15.27	44.91	74.00	-29.09	Vertical
7206.00	30.77	18.09	48.86	74.00	-25.14	Vertical
9608.00	32.11	23.76	55.87	74.00	-18.13	Vertical
12010.00	*otek	Aupor	Viek	74.00	And tek	Vertical
14412.00	* stek	Vupolek	Augo	74.00	. Aupor	Vertical
4804.00	30.00	15.27	45.27	74.00	-28.73	Horizonta
7206.00	30.63	18.09	48.72	74.00	-25.28	Horizonta
9608.00	29.59	23.76	53.35	74.00	-20.65	Horizonta
12010.00	Anbo *	botek	Aupolo	74.00	Anboles	Horizonta
14412.00	Aup & ter	P. Stok	Aupolek	74.00	abotek	Horizonta
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarizatio
4804.00	19.02	15.27	34.29	54.00	-19.71	Vertical
7206.00	19.80	18.09	37.89	54.00	-16.11	Vertical
9608.00	21.13	23.76	44.89	54.00	-9.11	Vertical
12010.00	* 10/6/	Anboro	VI. Vick	54.00	And	Vertical
14412.00	*	k Anbote	Anb	54.00	SK VUPO	Vertical
4804.00	18.35	15.27	33.62	54.00	-20.38	Horizonta
7206.00	19.69	18.09	37.78	54.00	-16.22	Horizonta
9608.00	18.90	23.76	42.66	54.00	-11.34	Horizonta
12010.00	Aupo *	Polek	Anbore	54.00	Anboren	Horizonta
14412.00	* "* ofer	VIII	polek	54.00	rotek	Horizonta

#### **Shenzhen Anbotek Compliance Laboratory Limited**







Anborek

Anbotek

Anbotek

Anbotek

Anbotek

nbotek

Anbotek

Anborek

Anbotek

Report No.: 182512C400308102

FCC ID: 2BDY9-MKE100

Anbotek Page 34 of 36

		1	ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	29.66	15.42	45.08	74.00	-28.92	Vertical
7320.00	30.62	18.02	48.64	74.00	-25.36	Vertical
9760.00	31.12	23.80	54.92	74.00	-19.08	Vertical
12200.00	*	porek An	born W.	74.00	upoter Ar	Vertical
14640.00	Anbole * A	tek	Anbotek	74.00	abotek	Vertical
4880.00	29.70	15.42	45.12	74.00	-28.88	Horizontal
7320.00	30.62	18.02	48.64	74.00	-25.36	Horizontal
9760.00	29.29	23.80	53.09	74.00	-20.91	Horizontal
12200.00	* Anbo	-K -200	lek Aupo,	74.00	stek Aupo	Horizontal
14640.00	hotek * Anb	DIO VIII	atek ar	74.00	40.4	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	18.75	15.42	34.17	54.00	-19.83	Vertical
7320.00	19.90	18.02	37.92	54.00	-16.08	Vertical
9760.00	20.99	23.80	44.79	54.00	-9.21	Vertical
12200.00	Upolek * Yu	40.	abotek A	54.00	"otek	Vertical
14640.00	*potek	Anbore	"Olek	54.00	Ann	Vertical
4880.00	18.26	15.42	33.68	54.00	-20.32	Horizontal
7320.00	19.25	18.02	37.27	54.00	-16.73	Horizontal
9760.00	19.41	23.80	43.21	54.00	-10.79	Horizontal
12200.00	tek * Anboli	Yupo,	dr. 181	54.00	-/- V	Horizontal
14640.00	*	Potek Vup	0. b.,	54.00	Pole Vu	Horizontal
TO 10	270		LO.Y	700	· · · · · · · · · · · · · · · · · · ·	1.0

Anbotek



Anbotek



Peak value: Frequency

(MHz)

4960.00

7440.00

9920.00

12400.00 14880.00 4960.00

7440.00

9920.00

12400.00 14880.00 Average value: Reading

(dBuV)

29.93

30.63

31.67

29.77

30.65

29.97

Report

FCC ID

Factor

(dB/m)

15.58

17.93

23.83

15.58

17.93

23.83

T	M1 / CH: H			
	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
	45.51	74.00	-28.49	Vertical
	48.56	74.00	-25.44	Vertical
100	55.50	74.00	-18.50	Vertical
n/o	otek Ant	74.00	botek Ar	Vertical
	Polek	74.00	Vek	Vertical
	45.35	74.00	-28.65	Horizontal
	48.58	74.00	-25.42	Horizontal
	53.80	74.00	-20.20	Horizontal
14.	ek upote	74.00	. de 40	Horizontal
9	V	74.00	Die. Burn	Horizontal
	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
	35.45	54.00	-18.55	Vertical
6	38.84	54.00	-15.16	Vertical
0	45.37	54.00	-8.63 M	Vertical
T	atek as	54.00	· ak	Vertical
8	Up	54.00	about	Vortical

Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
19.87	15.58	35.45	54.00	-18.55	Vertical
20.91	17.93	38.84	54.00	-15.16	Vertical
21.54	23.83	45.37	54.00	-8.63	Vertical
botek * Ant	John Williams	Viek V.	54.00	181	Vertical
stel*	Aupoten	IUD SOK	54.00	Vupo.	Vertical
19.70	15.58	35.28	54.00	-18.72	Horizontal
20.62	17.93	38.55	54.00	-15.45	Horizontal
19.31	23.83	43.14	54.00	-10.86	Horizontal
* * *	ak Anbore	P.,,	54.00	er Aug	Horizontal
* Y	stek ant	Olek Vup.	54.00	Potek Vul	Horizontal
	(dBuV)  19.87  20.91  21.54  *  *  19.70  20.62  19.31  *	(dBuV) (dB/m)  19.87 15.58  20.91 17.93  21.54 23.83  *  19.70 15.58  20.62 17.93  19.31 23.83  *	(dBuV)     (dB/m)     (dBuV/m)       19.87     15.58     35.45       20.91     17.93     38.84       21.54     23.83     45.37       *     *       19.70     15.58     35.28       20.62     17.93     38.55       19.31     23.83     43.14       *	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)           19.87         15.58         35.45         54.00           20.91         17.93         38.84         54.00           21.54         23.83         45.37         54.00           *         54.00         54.00           19.70         15.58         35.28         54.00           20.62         17.93         38.55         54.00           19.31         23.83         43.14         54.00           *         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)           19.87         15.58         35.45         54.00         -18.55           20.91         17.93         38.84         54.00         -15.16           21.54         23.83         45.37         54.00         -8.63           *         54.00         54.00           19.70         15.58         35.28         54.00         -18.72           20.62         17.93         38.55         54.00         -15.45           19.31         23.83         43.14         54.00         -10.86           *         54.00         -10.86         -10.86

#### Remark:

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







Anbolek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Report No.: 182512C400308102

Page 36 of 36

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Aupotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

FCC ID: 2BDY9-MKE100

### APPENDIX I -- TEST SETUP PHOTOGRAPH

Anbotek

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



Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek



Anbotek

Anbotek

Anbotek

Anbotek

Anbotek

Anbotek