

FCC ID: 2BDY9-MKE100

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# Test Report

**Applicant MKETech Electronics** 

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

California, United States

Wireless keyboard **Product Name** 

Sept. 18, 2024 **Report Date** 

Shenzhen Anbotek Compliance Laboratory Limited









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### **TEST REPORT**

Applicant : MKETech Electronics

Manufacturer : Dongguan ShangGui Electronics Co.,Ltd.

Product Name : Wireless keyboard

Model No. : MKE100

Trade Mark : N/A

Rating(s) Input: 5V= 250mA

Battery Capacity: DC 3.7V, 4000mAh

47 CFR Part 15.247

Test Standard(s) : KDB 558074 D01 15.247 Meas Guidance v05r02

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:	Jun. 21, 2024
Apolek Apolek Apolek	And Otek Anborek Anbo
Date of Test:	Jun. 21, 2024 to Jul. 25, 2024
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Prepared By: 010 And 00	Anbotes Ant stek J Anbotek Anbo
bo arek Aupotek Aupote All abotek	(TuTu Hong)
Aug. Tek Thotek Wiporg W. Wolsk	And the And Otok Andotok
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Approved & Authorized Signer:	Ok Wolsk Vipos W
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### **Revision History**

iek b	Anbotek Anbotek Anbo	Revision History	Anbotek Anbotek Ant
nbotek	Report Version	Description	Issued Date
Aupolek	R00 Anbotek	Original Issue.	Sept. 18, 2024
Anb	Jek Auporek Vupotel	Aupore Au	Aupoley Aupolek Vipole
	inpotes Augustak Aug	Prek Vupotek Vupotek	Aupotek Vupotek W

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#### 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)

P		700 K
Product Name	:	Wireless keyboard
Model No.	:	MKE100 And
Trade Mark	:	N/A Anhotek Anhotek Anhotek Anhotek Anhotek
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 Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency		2402MHz to 2480MHz
Number of Channel	:	40 And Nek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK And Jek Andotek Andotek Andotek Andotek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.94dBi

- (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

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

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#### 1.4. Operation channel list

Operation Band:

- P	VIII VIII		200			1.0	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
ek O Anb	2402	10	2422	Anbo 20	2442	30	2462
Lotek 1	2404	11 <sub>k</sub>	2424	21	2444	31 nbote	2464
2	2406	12 12	2426	22	2446	ek 32 Ant	2466
And 3 stek	2408	13	2428	23 11/10	2448	33	2468
A 4	2410	14 Anbo	2430	potek 24	2450	34	2470
5 Anbox	2412	otek 15 A	2432	25	2452	35 tek	2472
tek 6 An	2414	16	2434	26	2454	36	2474 no 10
nbotek 7	2416	17.04	2436	27	2456	37	2476
Anb 8ek	2418	18 hotek	2438	28	2458	38	2478
9botek	2420	19	2440	29	2460	39	2480
	1.117	1/2		463	F 777	- 1	. 47.0

### 1.5. Description of Test Modes

Pre	etest Modes	Descriptions
anbotek	TM1	Keep the EUT works in continuously transmitting mode (BLE 1M)
hotek	TM2	Keep the EUT works in continuously transmitting mode (BLE 2M)

### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB And tek Andotek Andoor
Conducted Spurious Emission	1.24dB Anbottek Anbottek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anbotek Anbotek Anbotek
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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### 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	otek Alpotek	Aupo. P
Conducted Emission at AC power line	Mode1,2	Vubb 184
Occupied Bandwidth	Mode1,2	B <sub>upor</sub>
Maximum Conducted Output Power	Mode1,2	ek Pup
Power Spectral Density	Mode1,2	polek P
Emissions in non-restricted frequency bands	Mode1,2	Anborg
Band edge emissions (Radiated)	Mode1,2	An Brek
Emissions in frequency bands (below 1GHz)	Mode1,2	Panbote
Emissions in frequency bands (above 1GHz)	Mode1,2	vek P ant
Note: P: Pass	ek Aupolek Aug	,nbotek

N: N/A, not applicable



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#### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

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

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

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

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

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

#### 1.9. Disclaimer

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

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





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#### 1.10. Test Equipment List

Cond	ucted Emission at A0	C power line	Anbotek A	upp	<b>Vuporek</b>	Aupore b
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
10°2° K	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	And	Anbotek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Occupied Bandwidth
Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

	DIOTIO III HOIT TOOLITOLO	a nequency bands	-01. V.		707	V UN
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
100 to 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
Anl3 tel	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4.nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

	edge emissions (Ra sions in frequency ba		tek Aupo	hotek Ann	Anbotek Ar	Potek Vup.
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	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
1003 K	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
A4001	EMI Test Software EZ-EMC	SHURPLE AND	N/A	N/A	Anboten A	Hajotek
5 AT	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
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06







Emissions in

**EZ-EMC** 

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Item

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	And	FCC ID: 2	BDY9-MKE <sup>*</sup>	00]	oke. Yun	toda yas	6/4
•	sions in frequency ba	ands (below 1GHz)	ter Aug.	otek	Anbotek Ar	100. W.	90
	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	A
	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16	ŀ
	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	10
	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11	ala ala
	EMI Test Software	SHURPLE	N/A	N/A	Aupolek	Anbo	

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#### 2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

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



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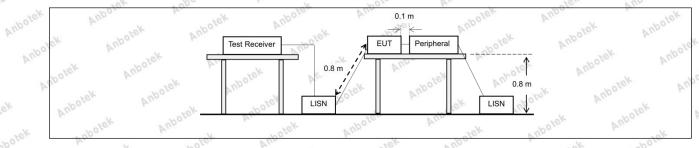
### 3. Conducted Emission at AC power line

Auporek Aupo	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the results of the section of the sect	that is designed to be con	nected to the
Test Requirement:	back onto the AC power line on ar		
nbotek Anbotek	band 150 kHz to 30 MHz, shall no measured using a 50 μH/50 ohms (LISN).		
Potek Wipote	Frequency of emission (MHz)	Conducted limit (dBµV)	Aupo
And	Anbo	Quasi-peak	Average
- aboten And	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56 M	46
Aupo, N.	5-30	60 And	50
rek anborek	*Decreases with the logarithm of t	he frequency.	upoter And
Test Method:	ANSI C63.10-2020 section 6.2	Office VUD	upotek And
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unl		od for ac power-

#### 3.1. EUT Operation

Operating Envir	onment:	"potek	Anboro	V	tek Aupole	AUD
Test mode:	1: TX mode(BLE 1M) 2: TX mode(BLE 2M)	Aupor	br.	Nok .	upole. An	o's Ya.

#### 3.2. Test Setup





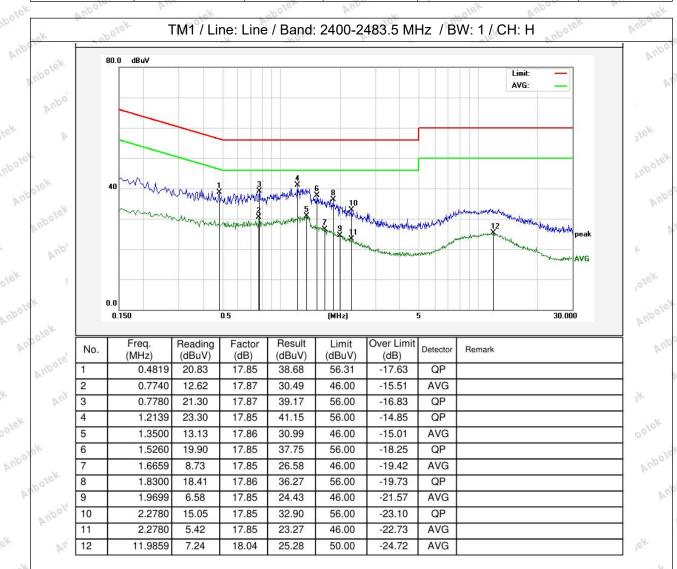


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#### 3.3. Test Data

23.1 °C 52 % Atmospheric Pressure: 101 kPa Temperature: **Humidity:** 



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

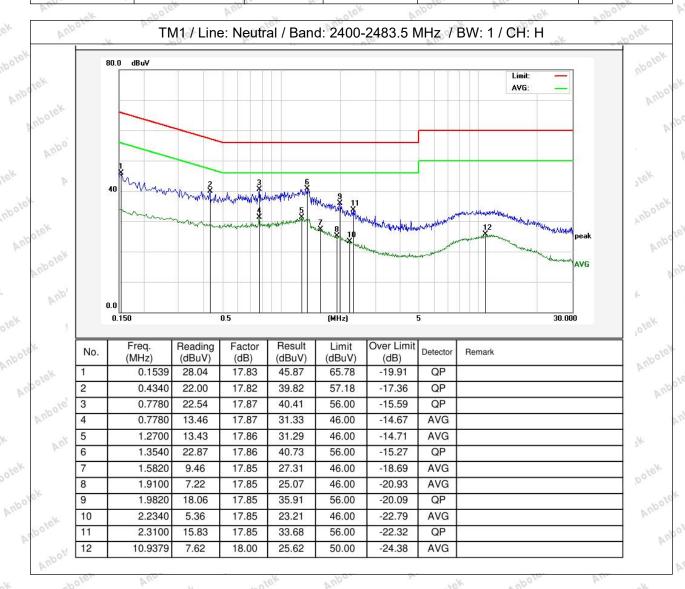




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Temperature: 23.1 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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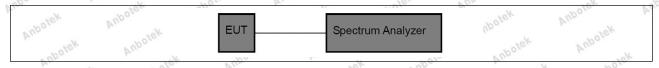
### 4. Occupied Bandwidth

400			NO.	br.		60.
47 CFR 15.	247(a)(2)	hote.	Yun Vick	Aupore	V Vupo	Nos
may operate	e in the 902-	-928 MHz, a	nd 2400-2	483.5 MHz		niques
			dance v05	r02	Anbotek	Anbo
The steps for a) Set RBW than 100 kH b) Set the V c) Detector d) Trace more e) Sweep = f) Allow the g) Measure at the lowes	or the first op = shall be i  z.  BW ≥ [3 × F = peak.  de = max-h  No faster the  trace to state  the maximu	n the range RBW]. old. an coupled bilize. Im width of the	of 1% to 5 (auto) time he emissicer at the hi	e. on by placing ghest frequ	g two marke ency of the	Anbotek Anbotek ers, one
the "-6 dB o	down amplit	ude". If a ma	rker is bel	ow this "-6	dB down	Anboten
The automa employed u functionality peak detect function. When using measureme	tic bandwid sing the X d described i or with max this capabi nt is not infl	B bandwidth n 11.8.1 (i.e. imum hold) i lity, care sha uenced by a	n mode wit , RBW = 1 s impleme ill be taker ny interme	h X set to 6 00 kHz, VB nted by the so that the	dB, if the W ≥ 3 × RB instrumenta bandwidth	W, and ition
	Refer to 47 may operate minimum 6  ANSI C63.1 KDB 55807  11.8.1 Option The steps for a) Set RBW than 100 kHb) Set the V c) Detector d) Trace more e) Sweep = f) Allow the g) Measure at the lowest envelope of the "-6 dB or amplitude" value and the second than 1.8.2 Option The automate may be a second to the sec	may operate in the 902-minimum 6 dB bandwid ANSI C63.10-2020, sec KDB 558074 D01 15.24  11.8.1 Option 1 The steps for the first operation in the steps for the steps in the steps for the steps in the steps for the steps in the steps i	Refer to 47 CFR 15.247(a)(2), Systemay operate in the 902-928 MHz, a minimum 6 dB bandwidth shall be at ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guid 11.8.1 Option 1  The steps for the first option are as a) Set RBW = shall be in the range than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled f) Allow the trace to stabilize. g) Measure the maximum width of that the lowest frequency and the other envelope of the spectral display, such the "-6 dB down amplitude". If a maximum width of the amplitude value, then it shall be as 11.8.2 Option 2  The automatic bandwidth measurement employed using the X dB bandwidth functionality described in 11.8.1 (i.e. peak detector with maximum hold) if function. When using this capability, care shameasurement is not influenced by a	Refer to 47 CFR 15.247(a)(2), Systems using may operate in the 902-928 MHz, and 2400-24 minimum 6 dB bandwidth shall be at least 5000 ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05 11.8.1 Option 1  The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 500 than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) times of the lowest frequency and the other at the hidenvelope of the spectral display, such that each the "−6 dB down amplitude". If a marker is beliamplitude" value, then it shall be as close as possible to the spectral display in the state of the spectral display	Refer to 47 CFR 15.247(a)(2), Systems using digital mode may operate in the 902-928 MHz, and 2400-2483.5 MHz minimum 6 dB bandwidth shall be at least 500 kHz.  ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02  11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OE than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing at the lowest frequency and the other at the highest frequenvelope of the spectral display, such that each marker is the "-6 dB down amplitude". If a marker is below this "-6 amplitude" value, then it shall be as close as possible to the spectral display is a special to the spectral display of an ir employed using the X dB bandwidth mode with X set to 6 functionality described in 11.8.1 (i.e., RBW = 100 kHz, VB peak detector with maximum hold) is implemented by the function. When using this capability, care shall be taken so that the measurement is not influenced by any intermediate power.	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation technimay operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.  ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02  11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not lethan 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.  11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument memployed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RB peak detector with maximum hold) is implemented by the instrumental

### 4.1. EUT Operation

(	Operating Envir	onment:	Aupoler	Ann	, sek	Anbotek	Aupo	*0K	abotek
7	Гest mode:	1M)	b.	Yek	" upoter	orks in contir	10.	potek	Aupo

#### 4.2. Test Setup



#### 4.3. Test Data

50	Temperature:	25.5 °C	.e.k	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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FCC ID: 2BDY9-MKE100

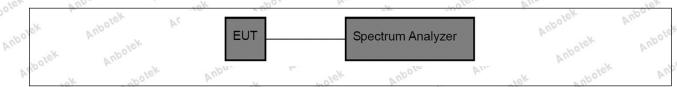
#### 5. Maximum Conducted Output Power

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

#### 5.1. EUT Operation

5.1. EUT Ope	ration	Aupolok	Anborotek	Aupotek	Anborek	Anbotek
Operating Envir	onment:	Aupor	hotek.	Aupore	Vun Viek	Aupole
Test mode:	1: TX mode(BLI 1M) 2: TX mode(BLI 2M)		otek Pupo,	b.	10/10	les. Vur

### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
1 - 111 - 1 - 1 - 1 - 1 - 1 - 1	= - 1 1/b -		400	W	1 - 1 (5/11





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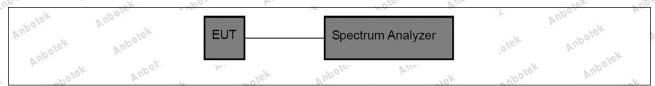
### 6. Power Spectral Density

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

#### 6.1. EUT Operation

Operating Envi	ronment:	Aupor	Votek.	Aupole	And	anbotek
Test mode:	1M)	, P	tek Anbore	Alla	inuously transmit	Anber

#### 6.2. Test Setup



#### 6.3. Test Data

Temperature: 25.5 °C Humidi	ty: 47 % Atm	ospheric Pressure: 101 kPa
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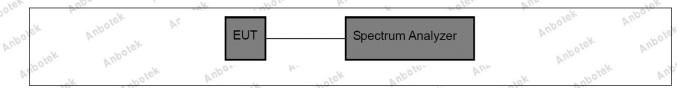
#### 7. Emissions in non-restricted frequency bands

Toot Dewijingmont	47 OFD 45 247(d) 45 200 45 205
Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbo	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
tek Aupote b	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
Test Limit:	either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the
Anbotek Anbotek	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
Anbotek Anb	this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

#### 7.1. EUT Operation

0	Operating Envir	onment:	Anboro	V. Polek	Anboren	Vun.	upotek
2	Test mode:	1M)	P. 04	anbore.	Ville	transmitting mode	VUD

### 7.2. Test Setup



#### 7.3. Test Data

Temperature: 25.5	5 °C Humidity:	47 %	Atmospheric Pressure:	101 kPa
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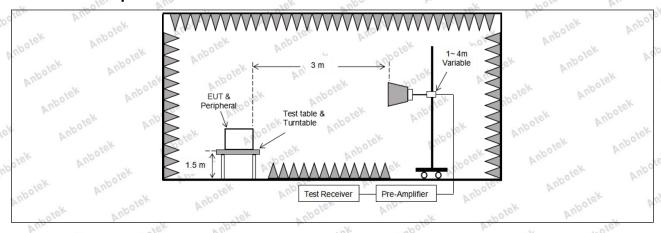
### 8. Band edge emissions (Radiated)

Ans ok hotek	- C AND 1- 0 1- 0 1- (N)	K Wupon W.	- Sporter
- aboter And		, In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
Aupor A.	radiated emission limits sp	ecified in § 15.209(a)(see § 15.2	.05(c)).`
Lotek b	Frequency (MHz)	Field strength	Measurement
Yer And	rotek Anbo	(microvolts/meter)	distance
aboten	And K Solek	Aupo. K. Kek	(meters)
upore VIII	0.009-0.490	2400/F(kHz)	300
"otek Aupora	0.490-1.705	24000/F(kHz)	30 M
And k hotel	1.705-30.0	30	30
"Upole" Vur	30-88	100 **	3
W. Tek Vup	88-216	150 **	163 Aupora
Anbo	216-960	200 **	3
ok spotek	Above 960	500	3 res
Test Limit:	** Except as provided in pa	ragraph (g), fundamental emiss	ions from
Polek Aupor		ing under this section shall not b	
Aug K Potek		Iz, 76-88 MHz, 174-216 MHz or	
anboten And	However, operation within	these frequency bands is permit	ted under other
A, rek upole	sections of this part, e.g., §	§ 15.231 and 15.241.	Anbore
Anbo		e, the tighter limit applies at the b	
k botek An		in the above table are based on	
Aur		peak detector except for the free	
stek Aupore		above 1000 MHz. Radiated emis	
or otek	D. C.	ed on measurements employing	an average
Polek Vup	detector.	W. Tok Supoles	Alle
Test Method:	ANSI C63.10-2020 section	6.10 And 100 Test	Aupolo
TEST METHOD.	KDB 558074 D01 15.247 N	leas Guidance v05r02	, otek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Yup Jiek

### 8.1. EUT Operation

	Operating Envir	onment:	rek	Anbotek	Ande	abore	K Anbor	K P.
7	Test mode:	1M) ·	upoter	Ann	200	tek Yup	transmitting m	rotek

#### 8.2. Test Setup



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

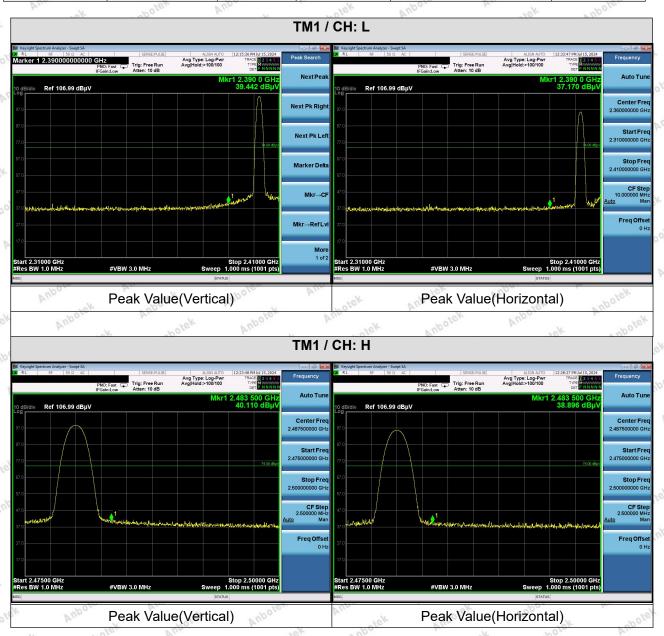




FCC ID: 2BDY9-MKE100

#### 8.3. Test Data

Temperature: 25.5 °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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#### 9. Emissions in frequency bands (below 1GHz)

VII.	100	K 70, b.	010.
potek Aupor	Refer to 47 CFR 15.247(d)	, In addition, radiated emissions	which fall in the
Test Requirement:		d in § 15.205(a), must also comp	
Aupore. Aur.	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)).`
v potek	Frequency (MHz)	Field strength	Measurement
ION YUD	hotek Anbo	(microvolts/meter)	distance
rek abover	And K Potek	Anbo Lek	(meters)
upor N.	0.009-0.490	2400/F(kHz)	300
Potek Vupo.	0.490-1.705	24000/F(kHz)	30 And
Ame ak abote	1.705-30.0	30 Anbore An	30 abole 1
Aupole, Aus	30-88	100 **	3
otek Ant	88-216	150 **	43 Anbo
Anbo	216-960	200 **	3 4 50/8
ek abotek	Above 960	500	al 3 les And
Test Limit:		ragraph (g), fundamental emissi	
potek Aupo		ing under this section shall not b	
Ann abotek		lz, 76-88 MHz, 174-216 MHz or	
Anbore All		hese frequency bands is permit	ed under other
rotek Aupor	sections of this part, e.g., §		Anbo
Ano		e, the tighter limit applies at the b	
k "poter An		in the above table are based on	
A. rek		peak detector except for the freq	
otek Anbos		above 1000 MHz. Radiated emis	
hotek Anbotek	detector.	ed on measurements employing	an average
Test Method:	ANSI C63.10-2020 section		Aupoles
reactiviculou.	KDB 558074 D01 15.247 N	leas Guidance v05r02	k hotek
Procedure:	ANSI C63.10-2020 section	6.6.4	And

#### 9.1. EUT Operation

	Operating Envi	ronment:	Note	Aupoter	Aug	401	- upotek	Aupo	h.
V,	-upolek A	1: TX mode	e(BLE 1M)	: Keep the E	EUT work	s in contir	nuously trar	smitting mode	e (BLE
	Test mode:	2: TX mode	e(BLE 2M)	: Keep the I	EUT work	s in contir	nuously trar	smitting mod	e (BLE

Anbo





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Report No.: 182512C400308101

FCC ID: 2BDY9-MKE100

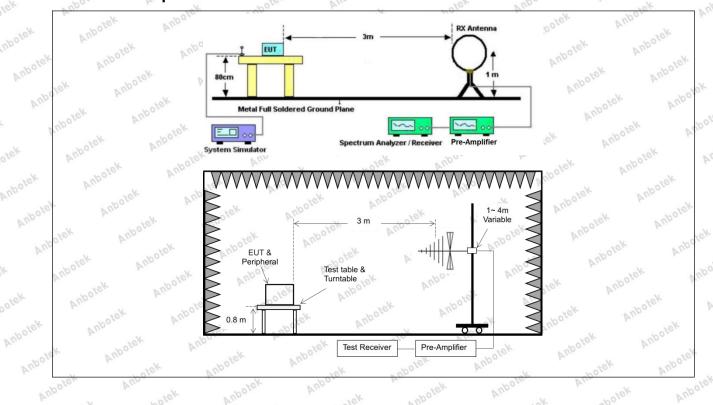
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#### 9.2. Test Setup



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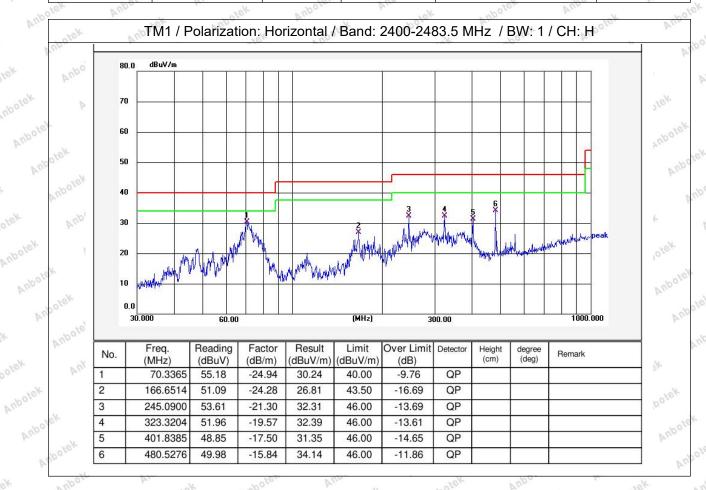
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#### 9.3. Test Data

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

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



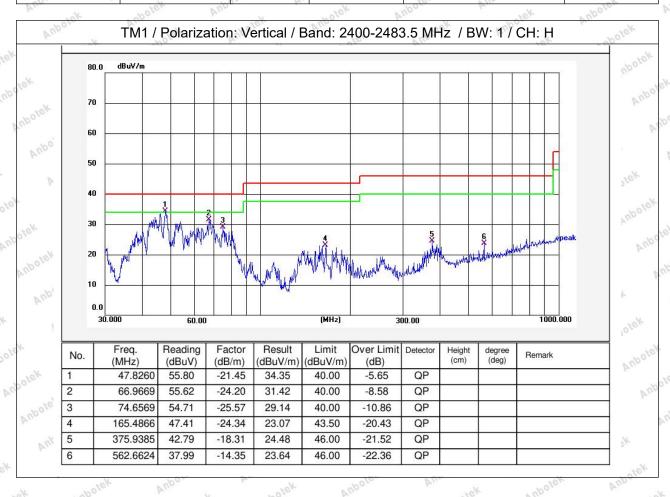




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FCC ID: 2BDY9-MKE100

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



Note:Only record the worst data in the report.









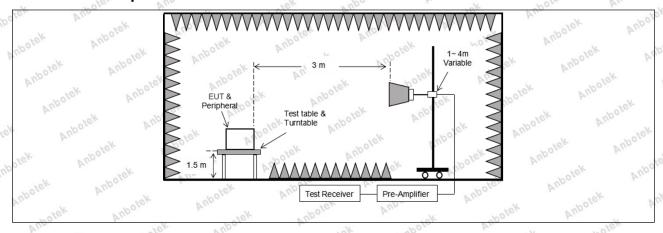
### 10. Emissions in frequency bands (above 1GHz)

Dr. ASL	. 177	K 70, L	0/0
abotek Anbot		ons which fall in the restricted ba	
Test Requirement:		omply with the radiated emission	limits specified
Auporo Air	in § 15.209(a)(see § 15.205	ō(c)).`	h. atek
K POLOK D	Frequency (MHz)	Field strength	Measurement
Yer Yun	botek Anbo	(microvolts/meter)	distance
stek vupote.	VIII.	Aug. Ofek	(meters)
upo viek	0.009-0.490	2400/F(kHz)	300
spotek Aupo	0.490-1.705	24000/F(kHz)	30
VII. POK Spores	1.705-30.0	30	30
Aupore Air	30-88	100 **	3
"Olek Aup	88-216	150 **	3 Anbo
And	216-960	200 **	3 holek
rek supoter	Above 960	500	3
Test Limit:		ragraph (g), fundamental emissi	
spotek Aupo		ng under this section shall not b	
Yu. Potek		z, 76-88 MHz, 174-216 MHz or 4	
Aupolo VIII		hese frequency bands is permitt	ed under other
"Olek Aupor	sections of this part, e.g., §		Anbo
And		e, the tighter limit applies at the b	
K "poter Yu,		in the above table are based on	
b.		peak detector except for the freq	
otek Anbo		above 1000 MHz. Radiated emis	
rek upotek	detector.	ed on measurements employing	an average
Vipo. V.	"holo VIII	CCA abotek Anbo	-ovek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		Aup
Procedure:	ANSI C63.10-2020 section	6.6.4	Vup.

### 10.1. EUT Operation

	Operating Envir	onment:	rek	Anbotek	Anbo	,	potek	Aupor	b.
7/	Test mode:	1: TX mode(E 1M) 2: TX mode(E 2M)	upoter	And		ootek	Aupo	Ψ	rek

#### 10.2. Test Setup



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





Anbotek

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#### 10.3. Test Data

Temperature: 24.4 °C Humidity: 49.9 % Atmospheric Pressure: 101 kPa

VII.	Sporek	Ano	-otek	Aupor	F 16K	Vupole.
		·	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	28.50	15.27	43.77	74.00	-30.23	Vertical
7206.00	28.56	18.09	46.65	74.00	-27.35	Vertical
9608.00	29.43	23.76	53.19	74.00	-20.81	Vertical
12010.00	*otek	Aupor	P. Ofek	74.00	Vun.	Vertical
14412.00	* Olek	Aupolei	Aug	74.00	Aupo	Vertical
4804.00	28.17	15.27	43.44	74.00	-30.56	Horizontal
7206.00	29.10	18.09	47.19	74.00	-26.81	Horizontal
9608.00	28.13	23.76	51.89	74.00	-22.11	Horizontal
12010.00	And *	potek	Anbor	74.00	Aupolek	Horizontal
14412.00	Anb %	V. Otok	Aupolek	74.00	hotek	Horizontal
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.77	15.27	32.04	54.00	-21.96	Vertical
7206.00	17.61	18.09	35.70	54.00	-18.30	Vertical
9608.00	18.90	23.76	42.66	54.00	-11.34	Vertical
12010.00	* wotek	Anbolo	Yun Tek	54.00	Augo	Vertical
14412.00	*	ek anbote	Anbo	54.00	sk Aupote	Vertical
4804.00	16.50	15.27	31.77 M	54.00	-22.23	Horizontal
7206.00	18.13	18.09	36.22	54.00	-17.78	Horizontal
9608.00	17.64	23.76	41.40	54.00	-12.60	Horizontal
12010.00	Vupo.*	Potek	Anbore	54.00	Anborek	Horizontal
14412.00	Vuipo Jen	Vun.	holek	54.00	Potek	Horizontal





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		1	M1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.05	15.42	43.47	74.00	-30.53	Vertical
7320.00	28.53	18.02	46.55	74.00	-27.45	Vertical
9760.00	28.93	23.80	52.73	74.00	-21.27	Vertical
12200.00	*	hotek An	DOSE BY	74.00	upoter Ar	Vertical
14640.00	Aupolo *	"tek	Anbotek	74.00	bolek	Vertical
4880.00	27.98	15.42	43.40	74.00	-30.60	Horizontal
7320.00	28.97	18.02	46.99	74.00	-27.01	Horizontal
9760.00	27.85	23.80	51.65	74.00	-22.35	Horizontal
12200.00	* Anbo	, 50°	ek Aupon	74.00	stek anbo	Horizontal
14640.00	otek * Anb	Die. Vie	rek nr	74.00	40.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	16.86	15.42	32.28	54.00	-21.72	Vertical
7320.00	17.47	18.02	35.49	54.00	-18.51	Vertical
9760.00	18.75	23.80	42.55	54.00	-11.45	Vertical
12200.00	Poles * Yu	49.	upotek V	54.00	hotek	Vertical
14640.00	sbote*	Aupore	"Orek	54.00	Ann	Vertical
4880.00	16.61	15.42	32.03	54.00	-21.97	Horizontal
7320.00	18.48	18.02	36.50	54.00	-17.50	Horizontal
9760.00	17.94	23.80	41.74	54.00	-12.26	Horizontal
12200.00	rek * nbol	Su. Vuos	N No.	54.00	p.	Horizontal

Anbol

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

Anbotek

Horizontal

54.00

Anbotek



oduct Safety	Anbotek		o.: 182512C 2BDY9-MKE		Page 30	of 31					
TM1 / CH: H											
Peak value:											
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization					
4960.00	28.18	15.58	43.76	74.00	-30.24	Vertical					
7440.00	28.69	17.93	46.62	74.00	-27.38	Vertical					
9920.00	29.63	23.83	53.46	74.00	-20.54	Vertical					
12400.00	ole, * Vile	rek or	potek Ant	74.00	shotek Ar	Vertical					
14880.00	upotek * A	upo K	Polek	74.00	otek.	Vertical					
4960.00	28.12	15.58	43.70	74.00	-30.30	Horizontal					
7440.00	29.18	17.93	47.11	74.00	-26.89	Horizontal					
9920.00	28.23	23.83	52.06	74.00	-21.94	Horizontal					
12400.00	K * Aupole	Am	ek nboti	74.00	, obo	Horizontal					
14880.00	* * * * * * * * * * * * * * * * * * *	Pupo Vupo	-/-	74.00	ore bu	Horizontal					
Average value:											
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization					
4960.00	17.98	15.58	33.56	54.00	-20.44	Vertical					
7440.00	18.74	17.93	36.67	54.00	-17.33	Vertical					
9920.00	19.40	23.83	43.23	54.00	10.77 mb	Vertical					
12400.00	hotek * Ant	or K.	Clek D	54.00	Ag.	Vertical					
14880.00	* tel*	Aupoten	TUP.	54.00	Aupo	Vertical					
4960.00	17.79	15.58	33.37	54.00	-20.63	Horizontal					
7440.00	19.28	17.93	37.21	54.00	-16.79	Horizontal					
9920.00	18.09	23.83	41.92	54.00	-12.08	Horizontal					
100	7.	V 1-0/0	Dir		8L 00						

#### Remark:

12400.00

14880.00

- 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.

54.00

54.00

Only the worst case is recorded in the report.



Horizontal

Horizontal



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Report No.: 182512C400308101

FCC ID: 2BDY9-MKE100

#### APPENDIX I -- TEST SETUP PHOTOGRAPH

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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

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Please refer to separated files Appendix III -- Internal Photograph



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