

Anbotek

Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

# FCC Test Report

DONGGUAN TOGRAN ELECTRONICS Applicant No.

TECHNOLOGY CO.,LTD.

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

city, China

nbotek

**Product Name** Mouse

Sept. 18, 2024 Report Date

Shenzhen Anbotek



Anbotek







# **Contents**

" Upo	No.	by.		Vic.	VUD.	400	
1. General Information	Ans		16 <sub>K</sub> P.	100		Koporo	(
1.1. Client Information	Aupore	<i>V</i>	494	"Upoler	VUR.	y	ek (
1.2. Description of Device (	(EUT)	, <i>p</i>	upo,		, abote	, All	(
1.3. Auxiliary Equipment U	sed During T	est	····Poler	And		-010/bi	Upo,
1.4. Operation channel list	°10,4 · · · · · · · · · · · · · · · · · · ·	00,			e. Vu	- Ve/-	
1.5. Description of Test Mo	des	botek			notek.	Ario O	- P.
1.0. Measurement oncerta	Anty	ve <sub>k</sub>	· Anb	/e,k;	40,	700 lex	
1.8. Description of Test Fac	cility	Anb		o/e/	Aupor	Yas	
1. General Information  1.1. Client Information  1.2. Description of Device ( 1.3. Auxiliary Equipment Us 1.4. Operation channel list 1.5. Description of Test Mo 1.6. Measurement Uncerta 1.7. Test Summary 1.8. Description of Test Fac 1.9. Disclaimer 1.10. Test Equipment List	·················//6/.·		oler l	'Un	- Polek	Anbo	9
1.10. Test Equipment List	4 <i>n</i> 00			V6por		έγ <i>V</i> .μος	1, <sub>6</sub> 1(
2. Antenna requirement	k kaba <sub>l</sub>		······································	······································	Anbo		13
2.1. Conclusion		polek	Aupo	······	ie <sub>k</sub> v	por h	12
3. Conducted Emission at AC p	ower line	"polek	Anbor		- Joseph	Popole.	13
3.1. EUT Operation	Aupor		47.0	ole. I	'Un	opotek	13
3.2. Test Setup		VUD.		Holek	Anbor		h. 13
3.3. Test Data		V	,0 <sub>fe</sub> .	Y. I.	······································	A <sup>nbo</sup>	14
4. Occupied Bandwidth	Anu		VUpolek	Aupo,	k	day Yay	10
4.1. EUT Operation	sk Yupo			Anbore	<i>V</i>		10
4.2. Test Setup		400101	Aug.		o <sub>76/r</sub> • • • • • • • • • • • • • • • • • • •	upo,	1
4.3. Test Data	700		Anbor	A	16K	V UPOFER	1
1.9. Disclaimer	Power	And	8k	otek	Aupo.	, abovek	18
5.1. EUT Operation	- Colek	Aupo		work.	Pupore	W	y. 18
5.2. Test Setup			Pole.	Vun			18
5.3. Test Data			-bolek	AUPOL		otek Vu	oo'Fi
6. Channel Separation	lak	ole.	VII.		Anb.		19
6.1. EUT Operation		olek	Vupo.	··········	12/0	"upole	19
6.2. Test Setup	, porc	71	bo!	S <sub>E</sub> V <sub>U</sub>	o-		19
6.3. Test Data7. Number of Hopping Frequen		Kbp	r	~ofek	AMOOTO		19
7. Number of Hopping Frequen	cies		ier V		ojek	Anbo.	20
7.1. EUT Operation	Aup.	<u>.</u>	volek	Aupore	b.,.	1000	2
7.2. Test Setup		<u> </u>		701.6K	Anbol		20
7.2. Test Setup 7.3. Test Data		1	Uspolek Un	Anbotek	ek Anbor	'0 <sub>/6/r</sub> V <sub>r</sub>	20
7.2. Test Setup	orek Vur	, Yey		Anbole <sup>k</sup> Anbo <sup>l</sup>	Sp. Vil		20 20
7.2. Test Setup	orek Wulge	Vupolek Vupolek	Visoble <sub>k</sub>	te <sub>k</sub> V <sub>Upot</sub> V <sub>Upot</sub>	Polek VII	olek Alloside Alloside	20 20 2
7.2. Test Setup	Very Pup Piek Vup	Anoolek Anoolek	Wandey Wandey	te <sub>k</sub> Pup <sub>o</sub> r	Pilotek Ni	Anbalak Anbalak Anbalak	20 2 2 2
7.2. Test Setup	VVOOSK VVOOSK VV	Augolek Wagolek	Ving Pring	Annotek Annotek	oolek Amolek	ole <sup>k</sup> A	20
7.2. Test Setup	requency bar	Anbolak Anbolak Anbolak	Mayo Jek	Winolek Hoose Vi	A NO OLEK	Anbalek Anbalek Anbalek	20 21 22 23
7.2. Test Setup	requency bar	nds	Lipotek Lex h			alek Allosek Antosek Antosek Antosek	20 21 22 23 23
7.2. Test Setup	requency bar	nds	700084		Annotes		20 21 22 23 23
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### Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

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Aupolek

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10.2. Test Setup	nbotek
	nboten
10.3. Test Data	~ o'
11. Emissions in frequency bands (below 1GHz)27	VUD
11.1. EUT Operation27	P.
11.2. Test Setup	
11.3. Test Data	
12. Emissions in frequency bands (above 1GHz)31	otek
12.1. EUT Operation31	"otek
12.2. Test Setup	YUD
12.3. Test Data	Anb
APPENDIX I TEST SETUP PHOTOGRAPH35	4.
APPENDIX II EXTERNAL PHOTOGRAPH	1
APPENDIX III INTERNAL PHOTOGRAPH	6

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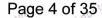
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### Shenzhen Anbotek Compliance Laboratory Limited

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# TEST REPORT

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

Manufacturer DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

**Product Name** : Mouse

Model No. TM242(M955COM2US)

Trade Mark

Input: 5V-- 0.5A Rating(s)

Battery Capacity: DC 3.7V, 930mAh

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:  Anbounded  Anbounded  Anbounded  Anbounded	Aug. 20, 2024
Date of Test:	Aug. 20, 2024 to Sept. 06, 2024
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Prepared By:	Mposek Aupole Aupole
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Approved & Authorized Signer:	is Dig sex Wild day William
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### Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

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Anbotek Aupolek Page 5 of 35 AND

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# **Revision History**

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Aupore	rek Vupore	R00 Anto	otek	Original Is	sue.	Sep	t. 18, 2024	Aupole.
Anb	Poisk Vu	potek	Vupore, rek	Vupolek	Aupolek	Anbotek	Aupolek	Aupo
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# 1. General Information

# 1.1. Client Information

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Applicant	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China
Manufacturer	1:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address	:	No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China
Factory	:	DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.
Address		No. 110, Shidan Mid Rd, Shijie Town, Dongguan city, China

# 1.2. Description of Device (EUT)

10 · · · · · · · · · · · · · · · · · · ·		76. VII. "OK VD
Product Name	:	Mouse And
Model No.	:	TM242(M955COM2US)
Trade Mark	:	N/A And Notek Andotek Andotek Andotek Andotek
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 ote And hotek Ambotek And otek Ambotek Ant
RF Specification		
Operation Frequency	:	2405-2475MHz
Number of Channel	:	oige Tupofek Vupofek Vupofek Vupofek Vupofek
Modulation Type		GFSK And tek Andorek Andorek Andorek Andorek Andorek
Antenna Type		PCB Antenna
Antenna Gain(Peak)	:	-1.40dBiek And Lokek Andold Andold Andold Andold

#### 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.









### 1.3. Auxiliary Equipment Used During Test

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

# 1.4. Operation channel list

### Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
ATOOLO	2405	5 Anbo	2422	over 9	nbote2441	13	2463
2 Anbor	2408	otek 6 M	100121 2426 AT	10	2445	Anbota	2466
otek 3 An	2414	T <sub>oto</sub> re 7	2436	And 11 tek	2453	15	2471
spore*4	2419	8 tek	2439	12	2459	16Anbox	2475

### 1.5. Description of Test Modes

	Pretest Modes		Descriptions
191	Anbotek TM1	Vup.	Keep the EUT in continuously transmitting mode (non-hopping).
note!	TM2	Aupo	Keep the EUT in continuously transmitting mode (hopping).

### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anbotek Anbotek
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Dwell Time	2% Anbotek Anbote Anbotek Anbo

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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### Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

### 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Wootek Wypord	Biek
Conducted Emission at AC power line	Mode1 Mode1	Pote
Occupied Bandwidth	Mode1 Anbott	P
Maximum Conducted Output Power	Mode1	P
Channel Separation	Mode2	P
Number of Hopping Frequencies	Mode2	Aupor P
Dwell Time Anbotek Anbotek Anbotek	Mode2	MP
Emissions in non-restricted frequency bands	Mode1,2	P <sup>upo</sup>
Band edge emissions (Radiated)	Mode1	E P
Emissions in frequency bands (below 1GHz)	Mode1	nbotek P
Emissions in frequency bands (above 1GHz)	Mode1	Anbo Pk

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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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, 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.



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### 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	'upo tek	Aupolek	Auporg	Amabotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
i <sup>ek</sup> 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
nbotek 2	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	Andolek	Vupor Viek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Number of Hopping Frequencies

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Emissions in non-restricted frequency bands
Occupied Bandwidth

Maximum Conducted Output Power

**Channel Separation** 

- 0	11.	200			100.	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Constant Temperature Humidity Chamber		ZHONGJIAN	ZJ- KHWS80B	N/A Anbo	2023-10-16	2024-10-15
Angole.	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	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
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03







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### Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

	edge emissions (Ra sions in frequency ba		obotek A	upotek	Aupo, otek	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Dat
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
3 1b 0 1e 1	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	nboteN/A	nboten	Andalokk	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
<sub>10</sub> 6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Yek	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Item	Eguipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Dat
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
An3 <sup>ote</sup>	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345 N	2022-10-23	2025-10-22
<b>4</b> <sup>nh</sup>	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	Andotek	MAOISK

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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

### 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 -1.40dBi . It complies with the standard requirement.

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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

# 3. Conducted Emission at AC power line

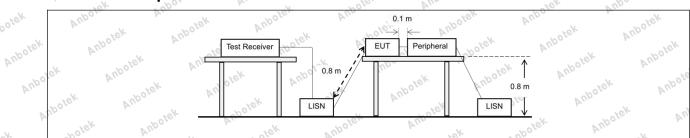
,k	Auporek Aupo	section, for an intentional radiator t public utility (AC) power line, the ra	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this ection, for an intentional radiator that is designed to be connected to the ublic utility (AC) power line, the radio frequency voltage that is conducted								
0	Test Requirement:	back onto the AC power line on any band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	exceed the limits in the fo	ollowing table, as							
İ	Vupores Vup	Frequency of emission (MHz)	Conducted limit (dBµV)	rek.							
	olek Anbore	VIII I'M Upoler	Quasi-peak	Average							
	- Aug	0.15-0.5	66 to 56*	56 to 46*							
6	Test Limit:	0.5-5	56 Stek Anbol	46							
	A. rek	5-30	60 And	50 Anbo							
10	otek Aupo.	*Decreases with the logarithm of th	e frequency.	10° .							
	Test Method:	ANSI C63.10-2020 section 6.2	cek abotek	Aupor							
	Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-							

# 3.1. EUT Operation

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Operating Envir	onment:	Andores	Ans	Aupolek	Vupp.	boiek
Test mode:	1: TX (Non-Ho	pping): Keep th	e EUT in continu	lously transm	itting mode (non-	12.
dest mode.	hopping).	Y.	ick aboter	AUD	, olek	Anb

### 3.2. Test Setup







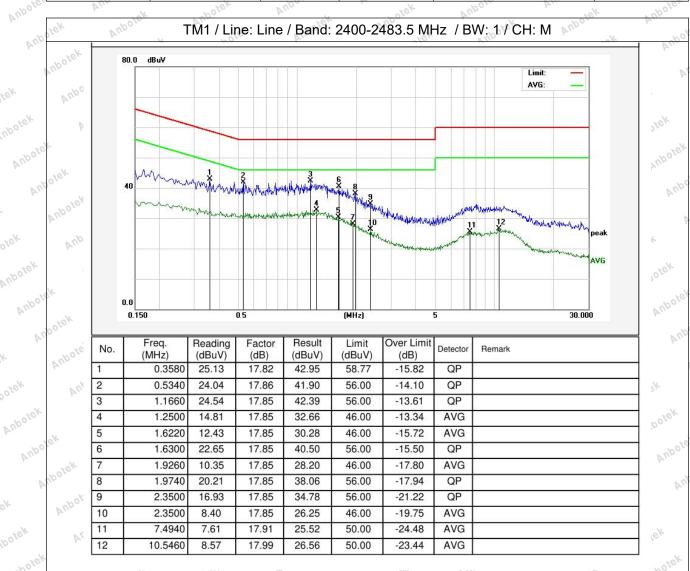
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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

### 3.3. Test Data

Temperature:	22 7 °C	Humidity.	55 % <sup>10</sup>	Atmospheric Pressure:	101 kPa
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### Shenzhen Anbotek Compliance Laboratory Limited

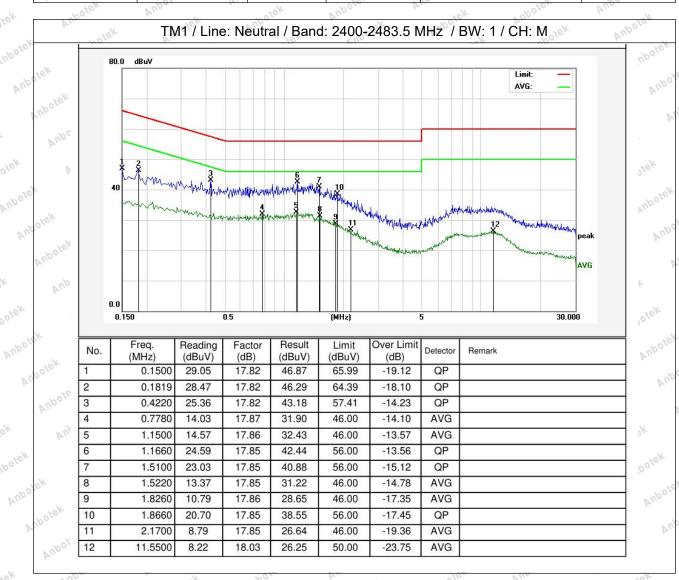
Aupolek







Temperature: 22.7 °C Humidity: 55 % Atmospheric Pressure: 101 kPa



Only the worst case is recorded in the report.







# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Anbotek  Test Limit:  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 tes KDB 558074 D01 15.247 Meas Guidance v05r02
Wholek Wholek  Wholek Wholek  Wholek Wholek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equato 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.
Aupotek Au	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.
Aupotek Aupotek	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
Procedure:	4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range.
ofek Vupolek	<ul> <li>e) Video averaging is not permitted. Where practical, a sample detection an single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.</li> <li>f) Use the 99% power bandwidth function of the instrument (if available) and</li> </ul>
Aupotek Vipotek	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.
k Anbotek An	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
Potek Vupotek	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
Anbotek Anbotek	the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

# 4.1. EUT Operation

Operating Envir	onment:	Anbo	ek abolek	Anbore	k hotek	Anbo
Test mode:	100	pping): Keep th	e EUT in contin	uously transmit	ting mode (non-	,K 0
40.	hopping).	V	Pure Ville		Jek "Up"	







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### Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

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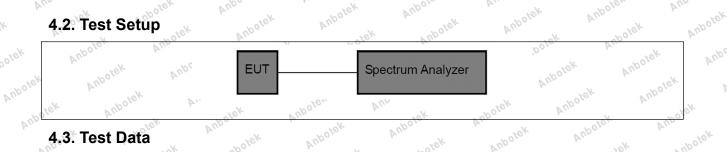
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### 4.2. Test Setup



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### 4.3. Test Data

,01	4.3. Test Data	) 1	Auporek	Anbole	, , , , , , , , , , , , , , , , , , ,	Vupore	3k Anbolek	Anl	olek	Anbe
	Temperature:	24.3 °C	<i>P.</i> .	Humidity:	51 %	VUL	Atmospheric Pres	ssure:	101 kPa	

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Anbotek

Hotline 400-003-0500 www.anbotek.com





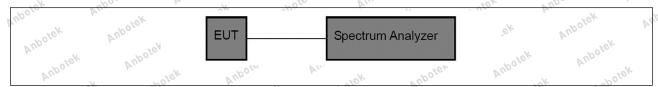
# 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: Nootek	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
Potek Vupotek Vup	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:
Aupotek Aupotek	<ul> <li>a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <li>b) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> </ul>
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
Aupotek Aupotek	emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
kek Vupotek Vupot	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
Upotek Vupotek	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 Envi	ironment:	Aupoles	Vup	Aupotek	Aupo	aboiek
Test mode:	1: TX (Non-H	lopping): Kee	p the EUT in co	ontinuously trai	nsmitting mode	e (non-
rest mode.	hopping).	V.	ok shotel	Anbo		K VUPOLO

### 5.2. Test Setup



### 5.3. Test Data

Temperature:	24.3 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





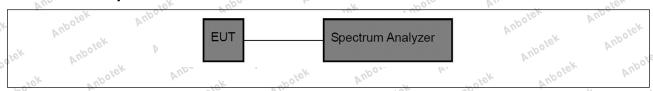
# 6. Channel Separation

101 - 00"	A MONTH AND
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.  Use the marker-delta function to determine the separation between the
Auporek Aupo	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 Environment:	Potek	Aupoles	Vun	Vuporek	Vupo,	100
ly.	Test mode: 2: TX (H	lopping): Ke	ep the EUT in	continuously tra	ansmitting mod	de (hopping).	br.

# 6.2. Test Setup

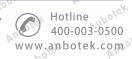


# 6.3. Test Data

Temperature:	24.3 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.









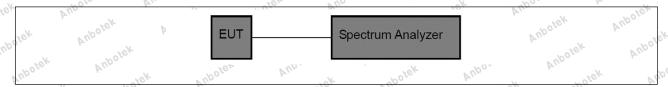
# 7. Number of Hopping Frequencies

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

# 7.1. EUT Operation

P	Operating Envir	onment:	Aupor	. o.k	polek	Vupore.	Pilin	Olek	Anboiek	VUD
	Test mode:	2: TX (Ho	opping):	Keep the	EUT in c	ontinuously tra	nsmitting	mode	(hopping).	

# 7.2. Test Setup



### 7.3. Test Data

Temperature:	24.3 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







### 8. Dwell Time

ONDWELL LILLE	Aupole Aupole Av. 16k Wholes
Test Requirement:	47 CFR 15.247(a)(1)(iii)
ek Anbotek Anbotek  Test Limit: Anbotek  Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupotek	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 Anbot	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
Aupolek Vupolek	transmits on a specific channel in a given period.  The EUT shall have its hopping function enabled. Compliance with the
Anbotek Anbotek Anbotek Anbotek Arbotek Arbote	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.
Anbotek Anbotek	Use the following spectrum analyzer settings to determine the dwell time per hop:
Popek Vupotek Vupotek	<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 last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.</li> </ul>
eek Anbotek Anbotek	d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.  e) Detector function: Peak.
Aupotek Aupotek	f) Trace: Clear-write, single sweep. 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 these two markers.





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

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

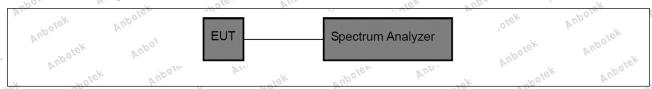
The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

### 8.1. EUT Operation

Operating Environment:

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

### 8.2. Test Setup



#### 8.3. Test Data

Temperature: 24.3	°C Vupor	Humidity:	51 %	Atmospheric Pressure:	101 kPa	VU
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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: Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
ootek 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.
ek Aupotek Aupotek  Aupotek Aupotek	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	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
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek 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 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

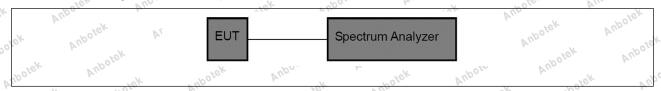
### Operating Environment:

Test mode:

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

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

### 9.2. Test Setup



### 9.3. Test Data

Temperature:	24.3 °C	Humidity: 5	1 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





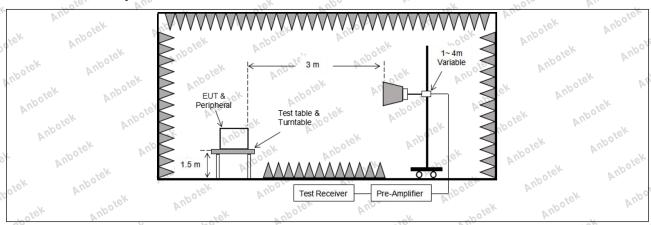
# 10. Band edge emissions (Radiated)

Top Dup	49,	K NOTE.	An
Augo		In addition, radiated emissions	
Test Requirement:		l in § 15.205(a), must also comp	
B. Cak	AV V	ecified in § 15.209(a)(see § 15.2	V. V.
Viek Vupo.	Frequency (MHz)	Field strength	Measurement
Potek.	Ando	(microvolts/meter)	distance
Aupole All	And And	Aupo.	(meters)
otek Anbore	0.009-0.490	2400/F(kHz)	300,000
Aupo	0.490-1.705	24000/F(kHz)	30
upoter Aup	1.705-30.0	30 All John Morter	30 And
V. FEK VUP	30-88	100 **	3 notoles
Aupor A.	88-216	150 **	3
k holek	216-960	200 **	3 tok Aupo
Roter Aug	Above 960	500 pole proposer A	73
Test Limit:		ragraph (g), fundamental emissi	
Aupo		ng under this section shall not b	
Sporek Aups		z, 76-88 MHz, 174-216 MHz or 4	
All solve		hese frequency bands is permitt	ed under other
Aupore	sections of this part, e.g., §		, tek
"Otek Au		e, the tighter limit applies at the b	
en And		in the above table are based on	
tek aboler		peak detector except for the freq	
Hoor K.		above 1000 MHz. Radiated emis	
hotek Anbo	detector.	ed on measurements employing	an average
Yur Potek	Au, Sek	Vupore VIII	, upoler
Test Method:	ANSI C63.10-2020 section		W.
1.5\$1 Modiod.	KDB 558074 D01 15.247 M	leas Guidance v05r02	K Vupo.
Procedure:	ANSI C63.10-2020 section	6.10.5.2	tek vupojek

### 10.1. EUT Operation

10.1. EUT	Operation	Aupolek	Anborek	Aupolek	Aupore	Vupolek V
Operating E	nvironment:	Aupo	2polek	Anbolo	VI. Otek	Anbo'
Test mode:	1: TX (Non-Hoppin hopping).	g): Keep the E	UT in continuo	usly transmittin	g mode (non-	Sk V

# 10.2. Test Setup



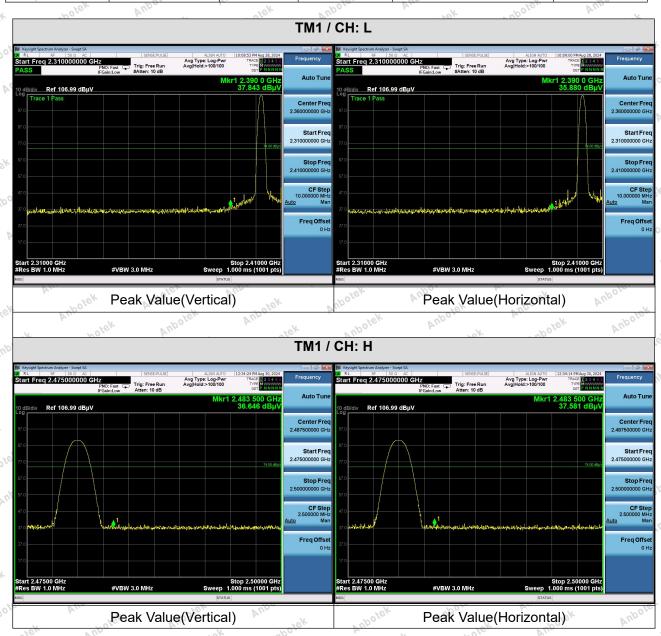






### 10.3. Test Data

Temperature: 24.3 °C Humidity: 51 % Atmospheric Pressure: 101 kPa



#### Remark:

Anbotek

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







Anbotek

Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

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

- AK - 463	, v v v v v v v v v v v v v v v v v v v	N. 162	4 100
Aupore Air		In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
K. 10k	ΔV	ecified in § 15.209(a)(see § 15.2	U5(C)).
rek Vupo,	Frequency (MHz)	Field strength	Measurement
OFEK	Vupo. W.	(microvolts/meter)	distance
Spokek Aupa	Olek Vupor	W. Yoke.	(meters)
YIII	0.009-0.490	2400/F(kHz)	300,000
Vupo, W.	0.490-1.705	24000/F(kHz)	30
"Olek Vupo.	1.705-30.0	30 Am abover	30 And
And	30-88	100 **	3 aboler
k hopoter And	88-216	150 **	3
K. Stok	216-960	200 **	3 rek Anbor
otek Vupo	Above 960	500 p	3
Test Limit:	** Except as provided in pa	ragraph (g), fundamental emissi	ons from
Vupore VI.	intentional radiators operati	ng under this section shall not b	e located in the
"Olek Vupor	frequency bands 54-72 MH	z, 76-88 MHz, 174-216 MHz or	470-806 MHz.
And		hese frequency bands is permitt	ed under other
anboten Ann	sections of this part, e.g., §		VI.,
K. Cak Vil		e, the tighter limit applies at the b	
sk Ando	VI.	in the above table are based on	V V V O V
ok spokek		peak detector except for the freq	
Dole. VIII		above 1000 MHz. Radiated emis	
rek Vupole	-0-	ed on measurements employing	an average
Aupo, Lek	detector.	abotek And	hotek
Toot Mothod:	ANSI C63.10-2020 section	6.6.4 Notes	Ans
Test Method:	KDB 558074 D01 15.247 M	leas Guidance v05r02	k Vupoje.
Procedure:	ANSI C63.10-2020 section	6.6.4	iek upojek
	16/4	10 K	'0. k

# 11.1. EUT Operation

Operating Env	ironment:	Vupojek	Aupo	abotek	Anbore	P	otek An
Test mode:	1: TX (Noi hopping).	n-Hopping	): Keep the E	UT in continuo	ously transmi	tting mode (n	on-





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Page 28 of 35

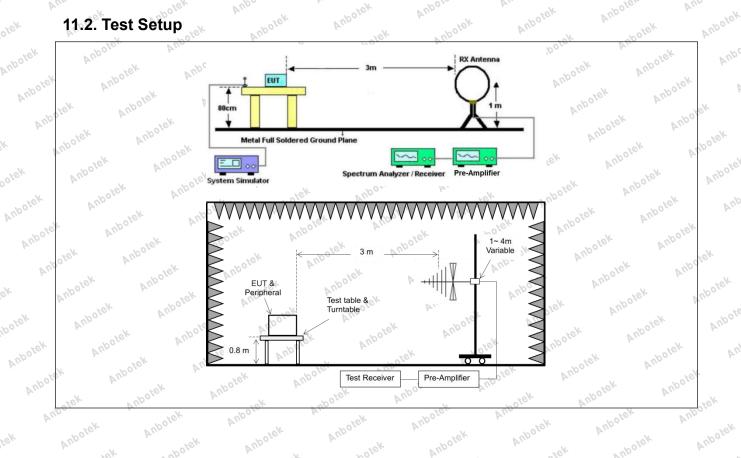
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### 11.2. Test Setup



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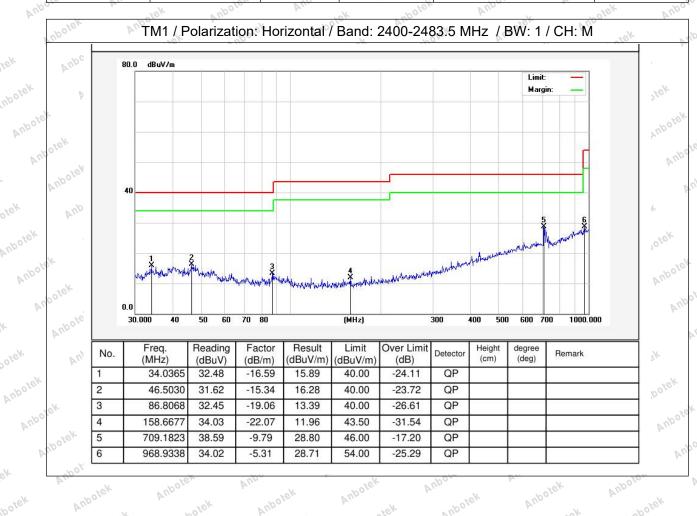
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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

#### 11.3. Test Data

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

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



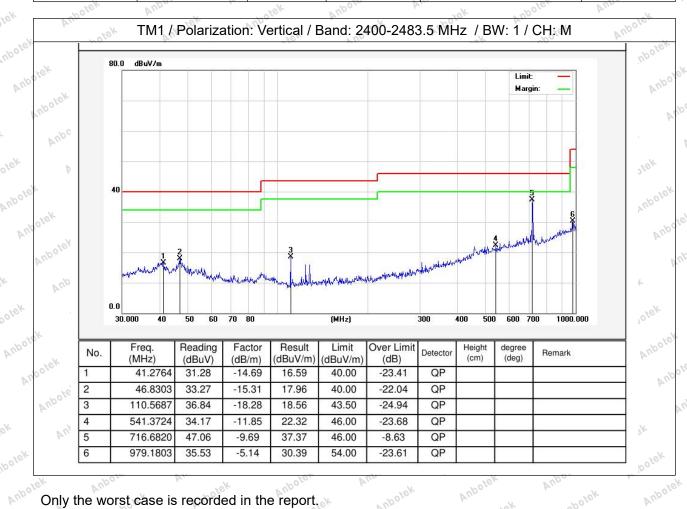




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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

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



Only the worst case is recorded in the report.





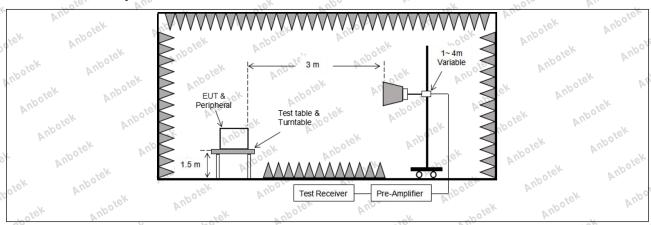
# 12. Emissions in frequency bands (above 1GHz)

Vupoise Vup	In addition, radiated emission	ons which fall in the restricted ba	inds, as defined
Test Requirement:	in § 15.205(a), must also co	omply with the radiated emission	
Vun.	in § 15.209(a)(see § 15.205	(c)).	rek anbover
Vek Aupor	Frequency (MHz)	Field strength	Measurement
, ak abolek	Ando	(microvolts/meter)	distance
Anbore All	And And	2122/EXALL \ Anbox	(meters)
colek Aupole	0.009-0.490	2400/F(kHz)	300
Aup. K Pole	0.490-1.705	24000/F(kHz)	30
"Upoter Aug	1.705-30.0	30 All Jok	30 And
H. VICK VID	30-88	100 **	3 hopoles
Anbo	88-216	150 **	3
rek spokek	216-960	200 **	3 tek Anbo
Test Limit:	Above 960	500 Andores A	100
Sole Anbor		ragraph (g), fundamental emissi	
Aug Polek		ng under this section shall not b	
Anbore. Ans		z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	
Clek Aupole	sections of this part, e.g., §		ed dilder offici
And		, the tighter limit applies at the b	and edges and leave
ok abotek An		n the above table are based on	
B. Lek		peak detector except for the freq	V 1-9"
potek Anbo		bove 1000 MHz. Radiated emis	
opolok	WA .	d on measurements employing	- 27
Anbore Am	detector.	botek Anbor	W. Clek
T- +100 tek Anbore	ANSI C63.10-2020 section	6.6.4	Aupo
Test Method:	KDB 558074 D01 15.247 M		k Aupoles
Procedure:	ANSI C63.10-2020 section	6.6.4	iek upolek
	. A/c	VO- , , , , , , , , , , , , , , , , , , ,	. O

# 12.1. EUT Operation

Operating Er	nvironment:	nnbotek	Anbo	abolek	Anbolo	Vu.	An
Test mode:	- No.		): Keep the EUT	in continuous	sly transmittin	g mode (non-	4
Ya.	hopping	. A	. Oler	VUD.	· ·	iek upo,	

# 12.2. Test Setup







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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

### 12.3. Test Data

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Temperature:	23.5 °C	Humidity:	52.8 %	Atmospheric Pressure:	101 kPa
V*	2/0	V///-	10.	~0 '	1 0 °

holok	Aupo	rek	Aupole	PL.	apolek	VUQ.
		7	ГМ1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4810.00	29.21	15.27	44.48	74.00	-29.52	Vertical
7215.00	30.35	18.09	48.44	74.00	-25.56	Vertical
9620.00	31.60	23.76	55.36	74.00	-18.64	Vertical
12025.00	Athore	VI.	Vupoler.	74.00	, upolek	Vertical
14430.00	k * nbote	Anbo	ak about	74.00	, , , , , , , , , , , , , , , , , , ,	Vertical
4810.00	29.58	15.27 Anbo	44.85	74.00	-29.15 And	Horizontal
7215.00	30.23	18.09	48.32	74.00	-25.68	Horizontal
9620.00	29.36	23.76	53.12	74.00	-20.88	Horizontal
12025.00	* tek	Aupole.	Al.	74.00	Vug.	Horizontal
14430.00	* Tek	Vupo, ek	Aupo.	74.00	Auporen	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4810.00	18.59	15.27	33.86	54.00	-20.14	Vertical
7215.00	19.38	18.09	37.47	54.00	-16.53	Vertical
9620.00	20.62	23.76	44.38	54.00	-9.62	Vertical
12025.00	*upole.	Villa	k upotek	54.00	ok abole	Vertical
14430.00	rek * nbot	Sk Aupo	, de 20	54.00 knbo	A.	Vertical
4810.00	17.93	15.27 <u></u>	33.20	54.00	-20.80	Horizontal
7215.00	19.29	18.09	37.38	54.00	-16.62	Horizontal
9620.00	18.67	23.76	42.43	54.00	-11.57	Horizontal
12025.00	* Notek	Anborek	Vur.	54.00	Vupp.	Horizontal
14430.00	W.*	Sporek	Vupor	54.00	Anbore	Horizontal

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Report No.:1812C40040512501 FCC ID:2AGLG-M955COM2US

- K	Joiek Aups		stek and	ore V.	You	Pulpoler Vu
		1	ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	29.23	15.42	44.65	74.00	-29.35	Vertical
7323.00	30.20	18.02 no	48.22	74.00	-25.78 nb <sup>o</sup>	Vertical
9764.00	30.61 And	23.80	54.41 An	74.00	19.59	Vertical
12205.00	"olek*	Upole V	rek	74.00	iup,	Vertical
14646.00	Yun *	V upolek	Vupor.	74.00	Aupoter.	Vertical
4882.00	29.28	15.42	44.70	74.00	-29.30	Horizontal
7323.00	30.22	18.02	48.24	74.00	-25.76	Horizontal
9764.00	29.06	23.80	52.86	74.00	-21.14	Horizontal
12205.00	*	otek Anbo	V.	74.00	OFER AUD	Horizontal
14646.00	"upole, * Vun	16k	upolek Ar	74.00	potek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	18.32	15.42	33.74	54.00	-20.26	Vertical
7323.00	19.48 nbox	18.02	37.50 mbo	54.00	-16.50	Vertical
9764.00	20.48	23.80	44.28	54.00	-9.72	Vertical
12205.00	A1700 *	Sporek	7upo, V	54.00	Aupole	Vertical
14646.00	Anbote*	B. Otek	Aupoles	54.00	"Upolek	Vertical
4882.00	17.84	15.42	33.26	54.00	-20.74	Horizontal
7323.00	18.85	18.02	36.87	54.00	-17.13	Horizontal
9764.00	19.18	23.80	42.98	54.00	-11.02 <sup>nbox</sup>	Horizontal
12205.00	olek * Vupo	18 A	otek And	54.00	POLEK VL	Horizontal
14646.00	work * As	100,000	16k	54.00	VA.	Horizontal

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-K -W	Jick Wups	*	Jek Vup.	Dr. Br.	h. 10.	ole, Vu
			ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.00	29.50	15.58	45.08	74.00	-28.92	Vertical
7425.00	30.21	17.93	48.14	74.00	-25.86	Vertical
9900.00	otek 31.16 Mar	23.83	54.99	74.00 M	-19.01	Vertical 📈
12375.00	*	upotek Ar	100	74.00	'uporg V	Vertical
14850.00	Vupo. *	Polek	Anborek	74.00	Vupolek	Vertical
4950.00	29.35	15.58	44.93	74.00	-29.07	Horizontal
7425.00	30.25	17.93	48.18	74.00	-25.82	Horizontal
9900.00	29.74	23.83	53.57	74.00	-20.43	Horizontal
12375.00	* Vun	rek anbo	ick Vupo.	74.00	olek Aupo	Horizontal
14850.00	polek * MUD	- V	hotek An	74.00	rek n	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4950.00	19.44	15.58	35.02	54.00	-18.98 o <sup>10</sup>	Vertical
7425.00	20.49	17.93	38.42	54.00	-15.58	vertical no
9900.00	21.03	otek 23.83 kgb	44.86	54.00	-9.14 And	Vertical
12375.00	Pole * WI	rek	upotek A	54.00	abotek	Vertical
14850.00	* upole*	Aupo	potek	54.00	Viek.	Vertical
4950.00	19.28	15.58	34.86	54.00	-19.14	Horizontal
7425.00	20.22	17.93	38.15	54.00	-15.85	Horizontal
9900.00	19.08	23.83	42.91	54.00	√ -11.09,000 <sup>10</sup>	Horizontal
12375.00	rek * Aupor	Vin	siek Anb	54.00	18.	Horizontal
14850.00	16k *	potek Aul	, V	54.00	Por Viv	Horizontal

### Remark:

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





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# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

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

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### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

### APPENDIX III -- INTERNAL PHOTOGRAPH

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Please refer to separated files Appendix III -- Internal Photograph

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