

FCC ID: 2BDJR-XK21

Page 1 of 35

FCC Test Report

Applicant : Shenzhen Seenda Technology Co., Ltd.

2nd Floor, Building C, Gelong Zhiqu, Bulong

Address : Road, Bantian Street, Longgang District,

Shenzhen City, Guangdong Province China

Product Name : Left-Handed Wireless Keyboard

Report Date : Sept. 23, 2024

Shenzhen Anbotek Complian



aboratory Limited





Contents

1. General Information		A ^{TI}		da _l	
1.1. Client Information	T)	PUpojes.	6 _K *V _{Up}		ros Fupol
1.2. Description of Device (EU 1.3. Auxiliary Equipment Used 1.4. Operation channel list 1.5. Description of Test Modes 1.6. Measurement Uncertainty	During Test	, , , , , , , , , , , , , , , , , , ,	19100		Annotek Ar
1.6. Measurement Uncertainty 1.7. Test Summary		Anbotek Anbotek	Aupo, Publick		
1.6. Measurement Uncertainty 1.7. Test Summary	#1000 010 W		Aupote		1
2. Antenna requirement	Vur.	, de j	tek Wu	f8/6	1212
2.1. Conclusion	Anbo		"potek	Anbolo	1
3. Conducted Emission at AC power	er line	00,		Anbole.	1
3.1. EUT Operation	Mote _k	Anbore	W. Park	Pupolok	Anba
3.2. Test Setup				A.B.	1 1
4. Occupied Bandwidth	Anbotek	Anbo		pote ^k Ant	1
3.2. Test Setup	, Angal				1 1 1
5. Maximum Conducted Output Po	wer	, potek	Vupote.	Ann alek	Anbotek
5.1. EUT Operation	Anbole .	Ann stek	, Anbolek	lok Yupak	1 1
5.3. Test Data					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5.3. Test Data6. Channel Separation	Anborok			nbotek Ar	1
6. Channel Separation	Anno	^U POJEK IRA PU	polek A	holes Ai	1
6. Channel Separation	Anno	^U POJEK IRA PU	otek A	holes Ai	1
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Report No.: 182512C400056102

FCC ID: 2BDJR-XK21

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Page 3	of 35	

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Auporo	11. Emissions in frequenc	- '	ASS.	te _k Vupo,	· · · · · · · · · · · · · · · · · · ·	dos do de la comencia del la comencia de la comencia del la comencia de la comenc	27	
Aupore	11.1. EUT Operation 11.2. Test Setup	neotek Ant	, b.	1014 1910	ole. Vur		27	
	11.2. Test Setup 11.3. Test Data	voley.	Allo ales	"tok	Vupore _k	Mpo	28	3/K
V.	tek "upo,		10000 N	Arion	hotek	Anbore	29	0,00
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"Olek	12.2. Test Setup		Anbo.		Anbak		32	
AUDO	APPENDIX I TEST SET	TUP PHOTOGR	APH M	ote. And	stek na	ootek Vul	35	
	APPENDIX II EXTERN					70/6k	35	
	APPENDIX III INTERN	AL PHOTOGRA	BH ₀			Vien	35 👌	199

Anbotek



FCC ID: 2BDJR-XK21

Page 4 of 35

TEST REPORT

Applicant : Shenzhen Seenda Technology Co., Ltd.

Manufacturer : Shenzhen Seenda Technology Co., Ltd.

Product Name : Left-Handed Wireless Keyboard

Model No. : XK21

Trade Mark : N/A

Rating(s) Input: 5V--1A

Battery Capacity: DC 3.7V, 280mAh

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:	May 22, 2024
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Date of Test:	May 22, 2024 to Jun. 19, 2024
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Prepared By:	1000, Wy Okek Wupoke, Wur
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Approved & Authorized Signer:	Ack Puposes Vila
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Report No.: 182512C400056102

FCC ID: 2BDJR-XK21

Page 5 of 35

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Revision History

Report Version	Description	Issued Date
Anbotel R00 Anbotel	Original Issue.	Sept. 23, 2024
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Inpotek Aupole Air	abotek Anbotes And hotek	Aupotek Aupo

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FCC ID: 2BDJR-XK21

1. General Information

1.1. Client Information

Applicant	: Shenzhen Seenda Technology Co., Ltd.
Address	2nd Floor, Building C, Gelong Zhiqu, Bulong Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province China
Manufacturer	: Shenzhen Seenda Technology Co., Ltd.
Address	2nd Floor, Building C, Gelong Zhiqu, Bulong Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province China
Factory	: Shenzhen DZH Industrial Co.,Ltd
Address	Floor 1, 2and3, Building 9 Bu Yong Industrial D Zone, shajing, Baoan, Shenzhen, China

1.2. Description of Device (EUT)

And		Total All
Product Name	:	Left-Handed Wireless Keyboard
Model No.	:	XK21, XK21 Pro, XK21 plus, XK21 Max (Note: All samples are the same except the model number, so we prepare "XK21" for test only.)
Trade Mark	:	NVA And otek 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 Anbores Anbores Anbores Anbores
RF Specification		
Operation Frequency	:	2403~2480MHz
Number of Channel	:	16 hotek Anborek Anborek Anborek Anborek An
Modulation Type	:	GFSK, otek Anbotek Anbotek Anbotek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.35dBi
Pomark:	DU	All pole Ann

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	Model No.	Serial No.	
Acer Computer	acer	N19W3	2020AJ3862	
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)
1 1	2403 And	5	2407	Anbolo 19	2414	13otek	2419
2	2426	Anbole 6	2422	10	2436	14 nbots	2439
Aupor 3	2441	Ant Pres	2445	11 nbote	2459	15	2453 M
Anbott	2463	8 upoles	2466	ek 12 _{Anb}	o ^{telk} 2473 And	16	2480

1.5. Description of Test Modes

10	Pretest Modes	Descriptions
17	TM1,ek Anbot	Keep the EUT in continuously transmitting mode (non-hopping).
	TM2	Keep the EUT in continuously transmitting mode (hopping).

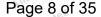
1.6. Measurement Uncertainty

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Y WAR
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2dB Anboten A
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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.: 182512C400056102 FCC ID: 2BDJR-XK21

1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Vidos I Upolek	Aut Bre
Conducted Emission at AC power line	Mode1	Bupaper
Occupied Bandwidth	Mode1	ek P Anbc
Maximum Conducted Output Power	Mode1	potek P P
Channel Separation	Mode2	nbote
Number of Hopping Frequencies	Mode2	Brek
Dwell Time	Mode2	Pubotel
Emissions in non-restricted frequency bands	Mode1,2	ek P
Band edge emissions (Radiated)	Mode1	P
Emissions in frequency bands (below 1GHz)	Mode1	ND PER
Emissions in frequency bands (above 1GHz)	Mode1	Anbo P rek
Note: P: Pass	And notek Andotek	Aupor
N: N/A, not applicable	Potek Aupoter	Vun

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Page 9 of 35

FCC ID: 2BDJR-XK21

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

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

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





1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Anbotek	Aupo	k, upotek	Anbore
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 _{ke} k	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
2 _o ot	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 1	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	k Anbore	Anbotek

Channel Separation

Number of Hopping Frequencies

Dwell Time

Anbo

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
otek 1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A MA	2023-10-16	2024-10-15	
2	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	
0015	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11	
ALGO PO	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03	





Anbot

Report No.: 182512C400056102

FCC ID: 2BDJR-XK21

Band	edge emissions (Ra	diated)	Anbotek A	upo.	Anbotek	Anbore
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
3	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	Anbolok	Anbore
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
op 7 ek	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emiss	sions in frequency ba	ands (below 1GHz)	Anbotek	Aupo	anbolek	Anbore
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1,01	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
Anbore	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
4	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	Anborek	Aupore Notek

Emiss	sions in frequency ba	ands (above 1GHz)	tek Anbol	iek Vup.	Pr.	potek Aupo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1Ant	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	ptek N/A Andos	N/A	potek A	spotek / Ant
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
,e¥7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06







FCC ID: 2BDJR-XK21

Page 12 of 35

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 2.35dBi. It complies with the standard requirement.





FCC ID: 2BDJR-XK21

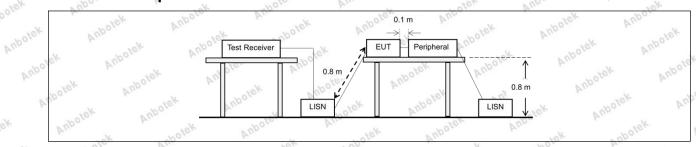
3. Conducted Emission at AC power line

public utility (AC) power line, the ra	idio frequency voltage tha	at is conducted
band 150 kHz to 30 MHz, shall not	exceed the limits in the for	ollowing table, as
Frequency of emission (MHz)	Conducted limit (dBµV)	Aupore
Vek Aupole Au	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56 Anbot	46
5-30 k	60	50
*Decreases with the logarithm of the	ne frequency.	anbotek An
ANSI C63.10-2020 section 6.2	upotek Aupo.	polek
		od for ac power-
	public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN). Frequency of emission (MHz) 0.15-0.5 0.5-5 5-30 *Decreases with the logarithm of the ANSI C63.10-2020 section 6.2 Refer to ANSI C63.10-2020 section	

3.1. EUT Operation

Operating En	vironment:	An Polek	Aupolek	Aug	Anbotek	Vupo.
Test mode:	1: TX (Non-Hopp hopping).	oing): Keep the E	UT in continuou	sly transmitting	mode (non-	AUD
3.2 Test Se	atumootek Anbo	, , , , o,	ek Anbore	All	r upoter	1

3.2. Test Setup



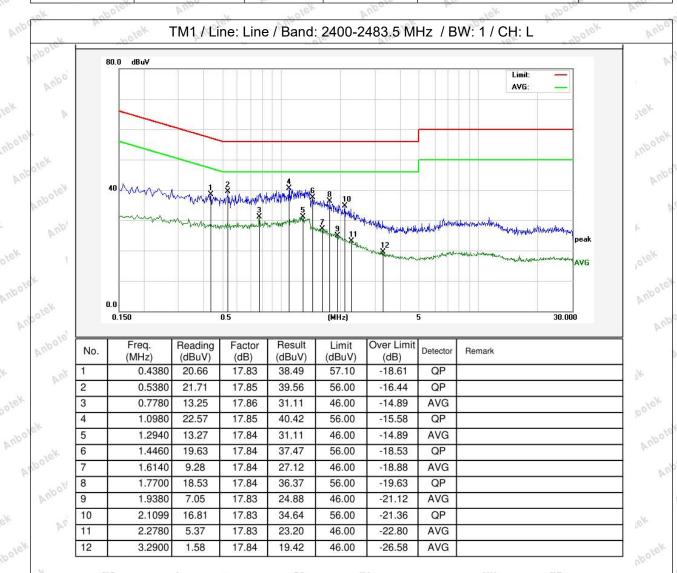






3.3. Test Data

-	Temperature:	23.5 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
			1 1211111111111111111111111111111111111	10.5		



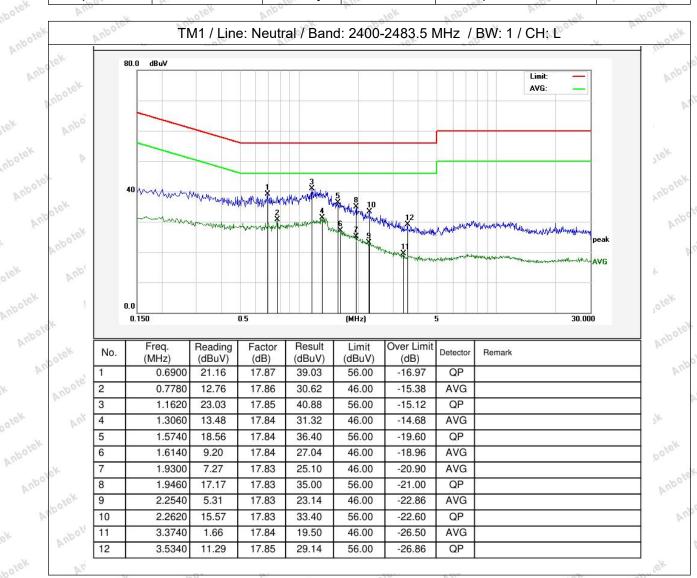








25.6 °C 49 % Temperature: **Humidity:** Atmospheric Pressure: 101 kPa







FCC ID: 2BDJR-XK21

4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: 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
Aupotek Aupotek Aupotek Aupotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between
potek Anbotek Ant	1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal
Anbotek Anbotek Anbotek	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. d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
tek Aupotek Aupo	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is
nbotek Anbotek	recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the manufacture of the process and the scale units per
Aupotek Aup	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 Env	vironment:	Aupotek	Anbo	abotek	Anbore	B.
Test mode:	1: TX (Non-Hopping hopping).): Keep the EU	JT in continuoι	ısly transmitting	mode (non-	V P







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Anbotek

Report No.: 182512C400056102

FCC ID: 2BDJR-XK21

Anbotek

Anbotek

Anbotek

Anbotek

Page 17 of 35

Anbotek

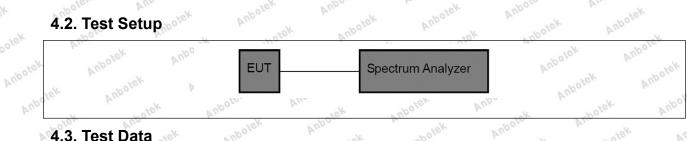
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4.2. Test Setup



4.3. Test Data

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V0.			~ /	0				- 11p				1
Tomporeture	25	6.00	0~I	Lungi ditur	40	0/	A time	oonborio D	raceural	101	νDo	1
lemperature:	1 20	DieC VII	ТГ	Humidity:	49	%	Aun	iospheric P	ressure: 1	1014	KPa	П
		70	1 -			~ / ·	/					- 1

Please Refer to Appendix for Details.

Shenzhen Anbotek Compliance Laboratory Limited

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FCC ID: 2BDJR-XK21

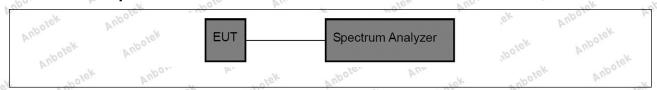
5. Maximum Conducted Output Power

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

5.1. EUT Operation

Operating Envir	onment:	Vu. Vick	Anbotek	Ando	anbotek	Vupor
Test mode:	VIII	Hopping): Keep	the EUT in co	ontinuously tran	smitting mode ((non-
164	hopping).	ok 2001	b.	1000	VUI.	*

5.2. Test Setup



5.3. Test Data

Temperature. 7 20.0 0 Trumbury. 7 40 /0 7 km loophich troodure. 7 for ki a	Temperature: 25.6 °C	C Humidity: 4	49 % Atmospheric Pres	ssure: 101 kPa
--	----------------------	---------------	-----------------------	----------------

Please Refer to Appendix for Details.







FCC ID: 2BDJR-XK21

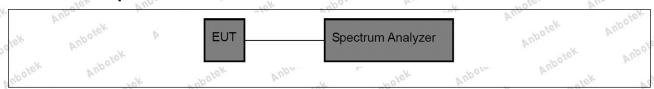
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: 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
Procedure: 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. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.1. EUT Operation

Operating Environm	ent: Anbore	V. Potek	Aupolen	Ann	Aupotek	PUL
Test mode: 2: 1	X (Hopping): Ke	ep the EUT in	continuously t	ransmitting mod	e (hopping).	

6.2. Test Setup



6.3. Test Data

Temperature:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.







FCC ID: 2BDJR-XK21

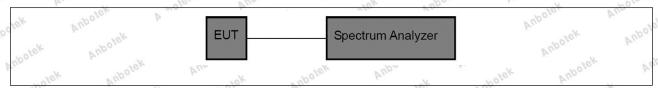
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbatek Anbatek Anbatek Anbatek	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
Procedure: 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. 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 En	vironment:	abotek	Anbore	Votek.	Auporen	And	
Test mode: 2: TX (Hopping): Keep the EUT in continuously transmitting mode (hopping					(hopping).		

7.2. Test Setup



7.3. Test Data

Temperature:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
7		070	Pla.	164	- M.

Please Refer to Appendix for Details.









FCC ID: 2BDJR-XK21

8. Dwell Time

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





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

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

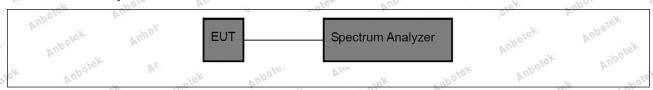
time.

Operating Environment:

Test mode:

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

8.2. Test Setup



8.3. Test Data

Temperature:	25.6 °C	Hur	midity: 49 %	Atmo	spheric Pressure:	101 kPa

Please Refer to Appendix for Details.





FCC ID: 2BDJR-XK21

9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Anborek Anborek Anborek	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
otek 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.
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:	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 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

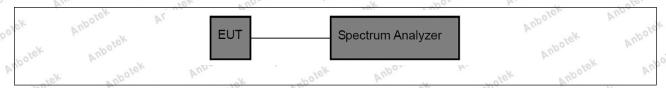
Operating Environment:

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:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
remperature.	25.0 C	i fulfillalty.	43 70	Autiospheric i ressure.	IUIKIA

Please Refer to Appendix for Details.





FCC ID: 2BDJR-XK21

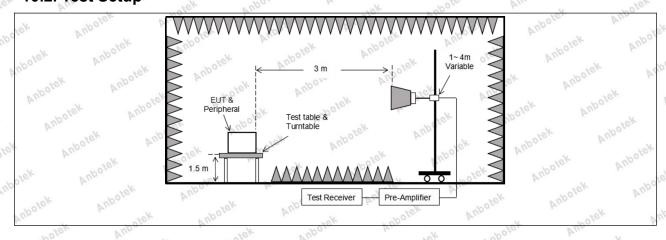
10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Aupore. Aur.	0.009-0.490	2400/F(kHz)	300
Polek Wiporg	0.490-1.705	24000/F(kHz)	30 Anbo
And	1.705-30.0	30 Allo	30
Y Aupore. Aur	30-88	100 **	3
Lotek Lotek	88-216	150 **	3 ek
Oler Vup	216-960	200 **	3
Test Limit:	Above 960	500	3 hoter And
Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241.	e located in the 470-806 MHz.
ek Aupore Au		e, the tighter limit applies at the b	
potek Anbotek	employing a CISPR quasi-p	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis	uency bands 9–
Anbotek Anbotek		ed on measurements employing	
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Aupoles
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Poter Augo

10.1. EUT Operation

Operating Envi	ronment:	And	anbotek	Aupo.	K.	hotek	Anbore.	Vu
Test mode:	1: TX (No	on-Hopping): K	eep the EUT	in continuo	usly tran	smitting n	node (non-	V.

10.2. Test Setup





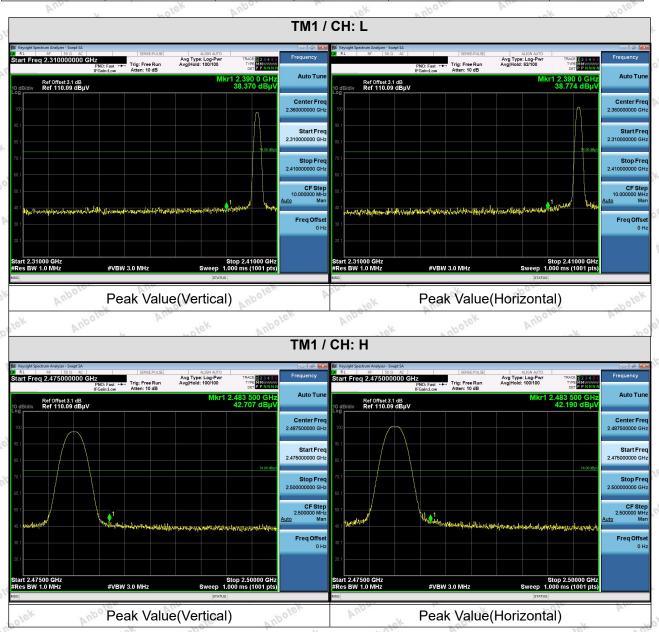






10.3. Test Data

Temperature: 25.6 °C Humidity: 49 % Atmospheric Pressure: 101 kPa



Remark:

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









FCC ID: 2BDJR-XK21

11. Emissions in frequency bands (below 1GHz)

D1.	400	pecified in § 15.209(a)(see § 15	U.S.
nbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen distance (meters)
aupoter Aug	0.009-0.490	2400/F(kHz)	300
W. Tek Vupe	0.490-1.705	24000/F(kHz)	30 Anbot
Aupo	1.705-30.0	30 And	30 50
"poler b	30-88	100 **	100 3 Am
VII.	88-216	150 **	3 tek
olek Aupora	216-960	200 **	3
k hotek	Above 960	500	3 botek
			DC IOCALCU III LIII
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	frequency bands 54-72 MI However, operation within sections of this part, e.g., of In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	Hz, 76-88 MHz, 174-216 MHz o these frequency bands is perm	itted under other band edges. In measurements equency bands 9 hission limits in
Test Method:	frequency bands 54-72 Mill 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 these three bands are based to see the section of the section	Hz, 76-88 MHz, 174-216 MHz of these frequency bands is perm §§ 15.231 and 15.241. The tighter limit applies at the in the above table are based of the above 1000 MHz. Radiated emised on measurements employin 6.6.4	or 470-806 MHz. itted under other band edges. on measurements equency bands 9 nission limits in

11.1. EUT Operation

Operating Envi	ronment:	AUD	abotek	Aupo.	k hotek	Anbole.	Vie
Test mode:	1: TX (No hopping)	on-Hopping): Ke	eep the EUT	in continuo	usly transmitting	g mode (non-	2/c





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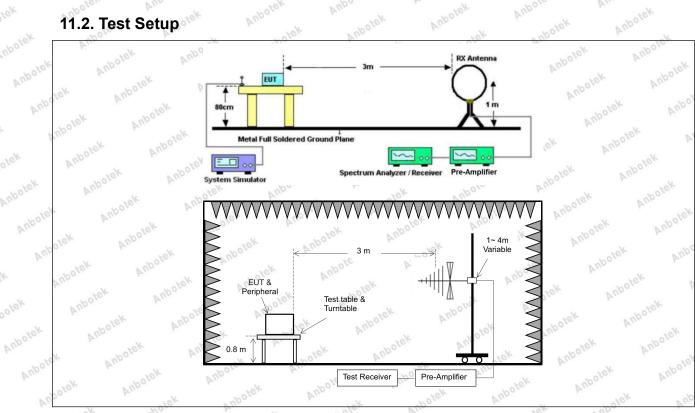
Anbotek

Report No.: 182512C400056102 FCC ID: 2BDJR-XK21

11.2. Test Setup

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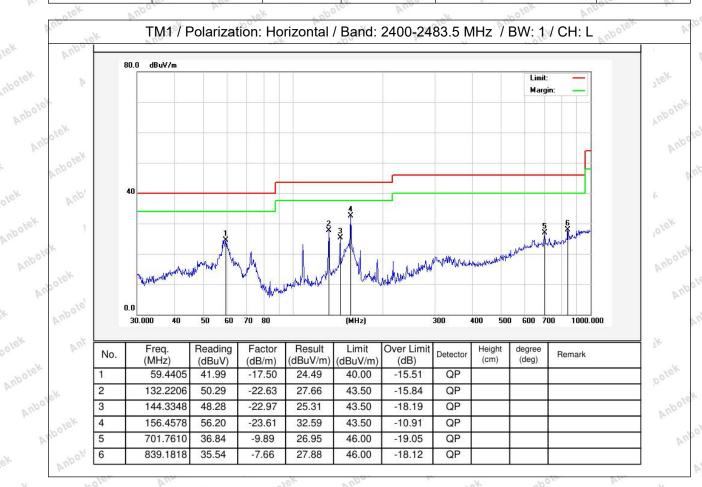


FCC ID: 2BDJR-XK21

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.

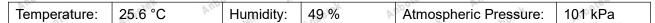
Temperature: 20.3 °C Humidity: 46 % Atmospheric Pressure: 101 kPa

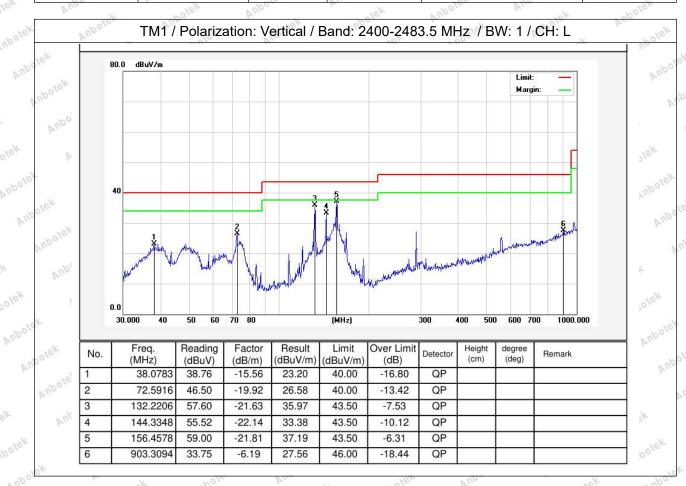




FCC ID: 2BDJR-XK21

Page 30 of 35









FCC ID: 2BDJR-XK21

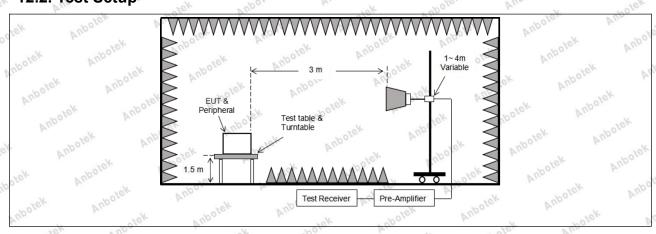
12. Emissions in frequency bands (above 1GHz)

PUL.	ok who	- K 2010 VIII	10%
- bolek Anbo		ons which fall in the restricted ba	
Test Requirement:	in § 15.205(a), must also co	omply with the radiated emission	limits specified
tek supore b	in § 15.209(a)(see § 15.205	o(C)).	100.
, otek	Frequency (MHz)	Field strength	Measurement
opolek Aug	notek Anbos	(microvolts/meter)	distance
rek "upoter	And the spotek	Anbo	(meters)
Aupo, Vek	0.009-0.490	2400/F(kHz)	300
bolek Anbo	0.490-1.705	24000/F(kHz)	30 Anbo
Ann ok	1.705-30.0	30	30
Anbore Am	30-88	100 **	3
Lotek .	88-216	150 **	3 tek
ooten And	216-960	200 **	3
T-19K : anboten	Above 960	500	3 pole Aug
Test Limit:		ragraph (g), fundamental emissi	
Sporek Aupo		ng under this section shall not b	
All above		z, 76-88 MHz, 174-216 MHz or	
Aupor A.	sections of this part, e.g., §	hese frequency bands is permitt	ed under other
k kotek Ant		, the tighter limit applies at the b	and edges
er And		n the above table are based on	
otek Aupote.		peak detector except for the freq	W0
, otek		above 1000 MHz. Radiated emis	
abotek Anbe		d on measurements employing	
All stek Vupoter	detector.	Aupo	Anbors
Ando	ANSI C63.10-2020 section	6.6.4	k spolek
Test Method:	KDB 558074 D01 15.247 M		Vu.
Procedure:	ANSI C63.10-2020 section	6.6.4	Jolek Anbor

12.1. EUT Operation

Operating En	vironment:	Anbo	anbotek	Vupor	r.k	hotek	Anbole	Vu.
Test mode:	1: TX (No	on-Hopping):	Keep the EU	T in continu	ously trar	nsmitting n	node (non-	
rest mode.	hopping)	hotel	Aupo		YOK	VUPOIC	b.	Yo.

12.2. Test Setup









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Anbotek

Report No.: 182512C400056102 FCC ID: 2BDJR-XK21

12.3. Test Data

Temperature:	25.6 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
	10.1.	10.7		V 200	Pro-

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Aup	hotek	Auport	Kek	Vupoje.	Vun	"potek
		-	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4806.00	27.88	15.27	43.15	74.00	-30.85	Vertical
7209.00	29.09	18.09	47.18	74.00	-26.82	Vertical
9612.00	30.02	23.76	53.78	74.00	-20.23	Vertical
12015.00	* wolek	Aupole	Aug	74.00	Aupo	Vertical
14418.00	* And	odn yes	lek Aupo	74.00	Olek Vupo	Vertical
4806.00	28.28	15.27	43.55	74.00	-30.45	Horizontal
7209.00	29.00	18.09	47.09	74.00	-26.91	Horizontal
9612.00	28.67	23.76	52.43	74.00	-21.57	Horizontal
12015.00	Anb *	P. Otek	Aupoles	74.00	, upotek	Horizontal
14418.00	*hbolek	Aug * 6k	abotek	74.00	k Polek	Horizontal
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4806.00	17.26	15.27	32.53	54.00	-21.47	Vertical
7209.00	18.12	18.09	36.21	54.00	-17.79	Vertical
9612.00	19.04	23.76	42.80	54.00	-11.21	Vertical
12015.00	*	ek Vupole	Aup	54.00	ok Aupor	Vertical
14418.00	isk * Yup	yo yo	otek Aup.	54.00	work Anh	Vertical
4806.00	16.63	15.27	31.90	54.00	-22.10	Horizontal
7209.00	18.06	18.09	36.15	54.00	-17.85	Horizontal
9612.00	17.98	23.76	41.74	54.00	-12.26	Horizontal
12015.00	Vulto of pr	Vin Viek	Aupole	54.00	abotek	Horizontal
14418.00	* upolek	Anba	y sole	54.00	b	Horizontal

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Report No.: 182512C400056102

	otek Aupol	P.		164	Up.	Potek Vi
			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	27.90	15.42	43.32	74.00	-30.68	Vertical
7323.00	28.94	18.02	46.96	74.00	-27.04	Vertical
9764.00	29.03	23.80	52.83	74.00	-21.18	Vertical
12205.00	Anbote *	otek	Aupole	74.00	" upolek	Vertical
14646.00	Vupoles.	And	Spotek	74.00	"Olek	Vertical
4882.00	27.98	15.42	43.40	74.00	-30.60	Horizontal
7323.00	28.99	18.02	47.01	74.00	-26.99	Horizontal
9764.00	28.37	23.80	52.17	74.00	-21.83	Horizontal
12205.00	ootek * Anb	D	wiek ar	74.00	18k	Horizontal
14646.00	otek*	Aupoles A	no rek	74.00	Aupo.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	16.99	15.42	32.41	54.00	-21.59	Vertical N
7323.00	18.22	18.02	36.24	54.00	-17.76	Vertical
9764.00	18.90	23.80	42.70	54.00	-11.31	Vertical
12205.00	* upole*	Aupo	Potek	54.00	A. Clek	Vertical
14646.00	*otek	Anbolo	V. Fok	54.00	Vupo.	Vertical
4882.00	16.54	15.42	31.96	54.00	-22.04	Horizontal
7323.00	17.62	18.02	35.64	54.00	-18.36	Horizontal
9764.00	18.49	23.80	42.29	54.00	-11.71	Horizontal
12205.00	16k *	potek Aut	, o, V	54.00	10010 ATT	Horizontal
14646.00	upo. *	Nek.	Auporo	54.00	"pole"	Horizontal

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Anbotek





FCC ID: 2BDJR-XK21

abole. All.	V	-oten An		-16K	por A.	
			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	28.17	15.58	43.75	74.00	-30.25	Vertical
7440.00	28.95	17.93	46.88	74.00	-27.12	Vertical
9920.00	29.58	23.83	53.41	74.00	-20.60	Vertical
12400.00	Aupolek * A	up.	Spotek	74.00	:otek	Vertical
14880.00	POISK	Aupoter	Viek	74.00	Vug.	Vertical
4960.00	28.05	15.58	43.63	74.00	-30.37	Horizontal
7440.00	29.02	17.93	46.95	74.00	-27.05	Horizontal
9920.00	29.05	23.83	52.88	74.00	-21.12	Horizontal
12400.00	otek * Anb	Pupp Vupp	40.	74.00	000 Pr	Horizontal
14880.00	*	work b	Upolo Bi	74.00	Aupoles A	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.11	15.58	33.69	54.00	-20.31	Vertical
7440.00	19.23	17.93	37.16	54.00	-16.84 M	Vertical
9920.00	19.45	23.83	43.28	54.00	-10.73	Vertical
12400.00	16/*	Vupores	140	54.00	Aupo	Vertical
14880.00	Anb. * ok	abotek	Aupore	54.00	Auporon	Vertical
4960.00	17.98	15.58	33.56	54.00	-20.44	Horizontal
7440.00	18.99	17.93	36.92	54.00	-17.08	Horizontal
9920.00	18.39	23.83	42.22	54.00	-11.78	Horizontal
12400.00	*	otek Ant	ofer Vup	54.00	potek Mul	Horizontal
14880.00	upotek * Ar	10 - V	Potek	54.00	Ne'Y	Horizontal

Remark:

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







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Report No.: 182512C400056102

FCC ID: 2BDJR-XK21

Page 35 of 35

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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

Please refer to separated files Appendix III -- Internal Photograph



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