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Report No.:1813C40012512501 FCC ID: 2ABC5-E0071

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Report FCC Test Anbotek

Applicant

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SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Address

Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China

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Product Name

Android Tablet

Report Date

Oct. 10, 2024

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, 💥 Tel:(86)0755-26066440 Email:service@anbotek.com

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, A Anbotel AND Tel:(86)0755-26066440 Email:service@anbotek.com Anbo







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Report No.:1813C40012512501 FCC ID: 2ABC5-E0071

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TEST REPORT

SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Applicant

Manufacturer

Product Name

Android Tablet

: WT1013T

N/A

Trade Mark

Rating(s)

Model No.

Input: 12V--- 1.5A

Test Standard(s)

47 CFR Part 15.247 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:

Date of Test:

Prepared By:

Aug. 05, 2024

Aug. 05, 2024 to Aug. 30, 2024

Nian Xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer:

(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Fechnology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, Tel:(86)0755-26066440 Email: service@anbotek.com







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1. General Information

1.1. Client Information

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Product Safety

Bld.2,Yingfeng Industrial Zone,Tantou Community, Songgang Street,Baoan, Shenzhen, China
: SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China
SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.
Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Baoan, Shenzhen, China

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1.2. Description of Device (EUT)

Product Name	:	Android Tablet	Aupo.
Model No.	:	WT1013T hotek Anbolek Anbole Anbolek Anbole Anbolek	PL
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	e¥-
Test Power Supply	:	AC 120V/60Hz for Adapter	hotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	nbol
Adapter	:	MODEL: FJ-SW126G1201500U INPUT: 100-240V~50/60Hz 0.6A Max OUTPUT: 12V	A'''

RF Specification

		No.	
Operation Frequency	:	2402MHz to 2480MHz	e ^k
Number of Channel	:	79 Anborek Anborek Anborek Anborek Anborek Anborek Anborek	, no'
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK	10
Antenna Type	:	FPC Antenna	Þ
Antenna Gain(Peak)	:	2.83dBi Anbotek Anbotek Anbotek Anbotek Anbotek	
Remark:		Anbo Anbotek Anbot At att Anboten AND	. o.Y

(1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

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	Title	Man	ufacturer	Model	No.	Serial No	
Lek.	Antotek	Anbor	Anotek	Anboten	Anv	Anbotek	Anbo
. e.K	nbotek	Anboro	P	Anboten	Ann	k Anbotek	Aupor
1.4. O	peration ch	annel list	And	-otek	Anbo	m .tek	. nb

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1.4. Operation channel list

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Operation E	Band:	Anbotek	Anbo	N -0	stek Anbo	tek Ant	otek p
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0 Anbo	2402 M	o ^{tek} 20 M	2422	40	2442	60 tek	2462
1 Ar	2403	nbot21	2423	41.1ek	2443	61	× 2463 no 16
nbote ^k 2	2404	22	2424	42 ubote	2444 ^{,boto}	62	ote 2464 MM
Anb 3tek	2405	23 notek	2425	43	otek 2445 And	63	2465
4,botek	2406	× 24 nbs	1 ^{ck} 2426 Anbo	44	2446	n ^{bote} 64	2466
5 Anbo	2407 ^{Anbo}	25	10 ¹⁰ 2427	45	2447	65	2467
otek 6	100 ¹⁰ 2408	26	2428	A ^{nb} 46	2448	66°°°	2468
Note 7	2409	Anbor 27	2429	47	2449	67 Aupo	2469
And 8 ek	2410	28	2430 oto	48 Anboth	2450	otek 68 M	10 ⁰¹⁶ 2470
Anbo 9 Jek	2411.01ek	29 ^{,1601}	2431	rek 49 pr	2451		2471
10	2412 no	e ^k 30 Anto	2432	te 50	2452	70 ex	2472
11 Anb	2413	n ^{potek} 31	2433	51	2453	And 71 otek	2473
o ^{tek} 12	2414	, nb 32	2434	52 otek	2454	72	tek 2474 Anbol
Anbo 13	2415	33K	2435	53	e ^x 2455 _{Anb} o ^v	73 Anu	2475
14 tok	2416	34 nbote	2436 noole	54	2456	o ^{oten} 74	2476
15 nbote	2417	35	pote ^k 2437 Ant	55	2457	Anto 75	2477
ek 16 Ant	o ^{tek} 2418 And	36	2438	Anboisto	2458	76	2478
, tek 17	2419	10 37 K	2439	57	2459	77 nbote	2479
18	2420	38	2440	58.00ter	2460	ex 78 Ant	o ^{tek} 2480 ^{And}
Anbolinek	2421	39	2441	× 59 Anb	2461	Nek -	Anbotek -

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Pretest Modes	Descriptions
AnboTM1 Anbor	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
TM3	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Anboten TM4 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
And TM5	Keep the EUT in continuously transmitting mode (hopping) with $π/4$ DQPSK modulation.
TM6	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

nbotel 1.5. Description of Test Modes

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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	13.4dB Andore Andorek Andore
Occupied Bandwidth	925Hz Antone Antone Antone
Conducted Output Power	0.76dBrek Anbou Att Abotek Anbot
Dwell Time	2% motek And botek A
Conducted Spurious Emission	1.24dB Andorek Andore Andreak
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

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Report No.:1813C40012512501 FCC ID: 2ABC5-E0071

1.7. Test Summary

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Product Safety

<u> </u>	OL DI.	101
Test Items	Test Modes	Status
Antenna requirement	Arb Anbotek	A ^{nbo} P
Conducted Emission at AC power line	Mode1,2,3	Pupor
Occupied Bandwidth	Mode1,2,3	P Put
Maximum Conducted Output Power	Mode1,2,3	p ^{otek} P
Channel Separation	Mode4,5,6	Anbotek
Number of Hopping Frequencies	Mode4,5,6	AnBrek
Dwell Time	Mode4,5,6	PAnbote
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	ek P An
Band edge emissions (Radiated)	Mode1,2,3	otek P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Pro Pro
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Ann
Note: And	Anbotek Anboten	Ano

N: N/A, not applicable

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

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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.

Shenzhen Anbotek Compliance Laboratory Limited

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Report No.:1813C40012512501 FCC ID: 2ABC5-E0071

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1.9. Disclaimer

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- 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.

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- 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.
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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. Tes	st Equipmer	nt List

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Cond	ucted Emission at A	C power line	Anbo	An	Anbore	All
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1ex	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
200	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 🎤	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	And	Anberek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11
(e.	Pup.	botek Anos	v vole	K Anbo	P.C.	tek nor
Numb Dwell Emise Occu	nel Separation per of Hopping Frequ Time sions in non-restricte pied Bandwidth	d frequency bands	botek Ant Anbotek Ant	nbotek	Anbotek Anbo Anbotek Anbotek	Anbotek Anbotek
Numt Dwell Emiss Occu <u>Maxir</u>	per of Hopping Frequ Time sions in non-restricte pied Bandwidth num Conducted Out	d frequency bands put Power	Anbolek Anbolek	Anbotek Anbotek	Anbotek Anbotek	Anbotek
Numb Dwell Emise Occu	ber of Hopping Frequ Time sions in non-restricte pied Bandwidth	d frequency bands		nbotek	Anbolek	Cal.Due Dat
Numk Dwell Emiss Occu Maxir Item	ber of Hopping Frequ Time sions in non-restricte pied Bandwidth mum Conducted Out Equipment Constant Temperature	d frequency bands put Power Manufacturer	Model No.	Anbotek Anbotek Serial No.	Anbolek Anbolek Last Cal.	Cal.Due Dat 2024-10-15 2024-10-19
Numb Dwell Emise Occu <u>Maxir</u> Item	ber of Hopping Frequ Time sions in non-restricte pied Bandwidth <u>num Conducted Out</u> Equipment Constant Temperature <u>Humidity Chamber</u>	d frequency bands put Power Manufacturer ZHONGJIAN	Model No. ZJ- KHWS80B	Serial No. N/A 1804D360	Last Cal. 2023-10-16	Cal.Due Dat 2024-10-15
Numb Dwell Emiss Occu Maxir Item 1 2	ber of Hopping Frequ Time sions in non-restricte pied Bandwidth <u>num Conducted Out</u> Equipment Constant Temperature Humidity Chamber DC Power Supply Spectrum	d frequency bands put Power Manufacturer ZHONGJIAN IVYTECH	Model No. ZJ- KHWS80B IV3605	Serial No. N/A 1804D360 510	Last Cal. 2023-10-16 2023-10-20	Cal.Due Dat 2024-10-15 2024-10-19
Numb Dwell Emiss Occu Maxir Item 1 2 3	ber of Hopping Frequent Time sions in non-restricter pied Bandwidth mum Conducted Out Equipment Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum	d frequency bands put Power Manufacturer ZHONGJIAN IVYTECH Rohde & Schwarz	Model No. ZJ- KHWS80B IV3605 FSV40-N	Serial No. N/A 1804D360 510 102150 MY505318	Last Cal. 2023-10-16 2023-10-20 2024-05-06	Cal.Due Dat 2024-10-15 2024-10-19 2025-05-05

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	sions in frequency ba edge emissions (Ra		Aupoter A	np nbotek	Anbolek	Anbornek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	P
_e ⊁1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	
10 2°K	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	otek
300	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15	Anbotek
4 pr	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbore	Amanbotek	Anb
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	- at
^{nbo} 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	Jor ote
Ann	k holek	Anbo	atek.	Anbor	Am	aboter	AUDA

Em	nissions in frequency b	ands (below 1GHz)	And	Anbotek	Anbor	A	P
ove ^k lte	m Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
nbotet	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	×
2	Pre-amplifier	SONOMA	310N ⁰⁰⁰	186860	2024-01-17	2025-01-16	ove
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	ant
- 4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11	
,o ^{tex} 5	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A.bote	Aupore	ek Anbotek	
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otek	2. Antenna requi	irement	Anbotek	Anborsbotek	Anbotek	Anbotentek	Ann
Anbotek Anb	Test Requirement:	Refer to 47 CFR F ensure that no ant shall be used with of an antenna that	enna other that the device. The	n that furnishe e use of a perr	d by the respor nanently attach	nsible party ned antenna or	
	nbotek Anbo	considered sufficie	ent to comply w	ith the provision	ons of this secti	on.	botel

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2.1. Conclusion

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The antenna is a FPC Antenna which permanently attached, and the best case gain of the antenna is 2.83dBi. It complies with the standard requirement. Anbotek Anbote AND

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3. Conducted Emission at AC power line

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Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 μ H/50 ohms (LISN).	hat is designed to be con adio frequency voltage that y frequency or frequencie exceed the limits in the fo	nected to the it is conducted s, within the ollowing table, as
hotek Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	Anbor
Ano	otek Anbo	Quasi-peak	Average wover
KAn	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 AM above	56 And	46 Anbo
otek Anbo	5-30 K Andrew Andrew	00 Mar 19	50
stek Anbolek	*Decreases with the logarithm of the	ne frequency.	Anbore. An
Test Method:	ANSI C63.10-2020 section 6.2	Anboten And Akek	Anbolek
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-

3.1. EUT Operation

Operating Environment:

Operating Envir	onment:	A. abotek	Anboten	And Polek	Anbotek	Anbo
Test mode:	1: TX-GFSK (Non hopping) with GF 2: TX-π/4-DQPSk (non-hopping) wit 3: TX-8DPSK (No	SK modulation. K (Non-Hopping): h π/4 DQPSK m n-Hopping): Kee	Keep the El	JT in continuou	isly transmittin	g mode
3.2. Test Set	hopping) with 8DF	Andored Andored	Anbotek Anbotek	Anbotek	Anbotek	Anbor

3.2. Test Setup

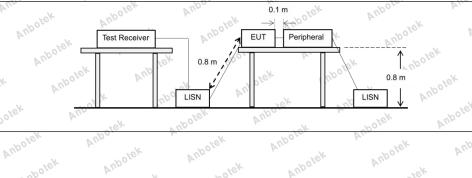
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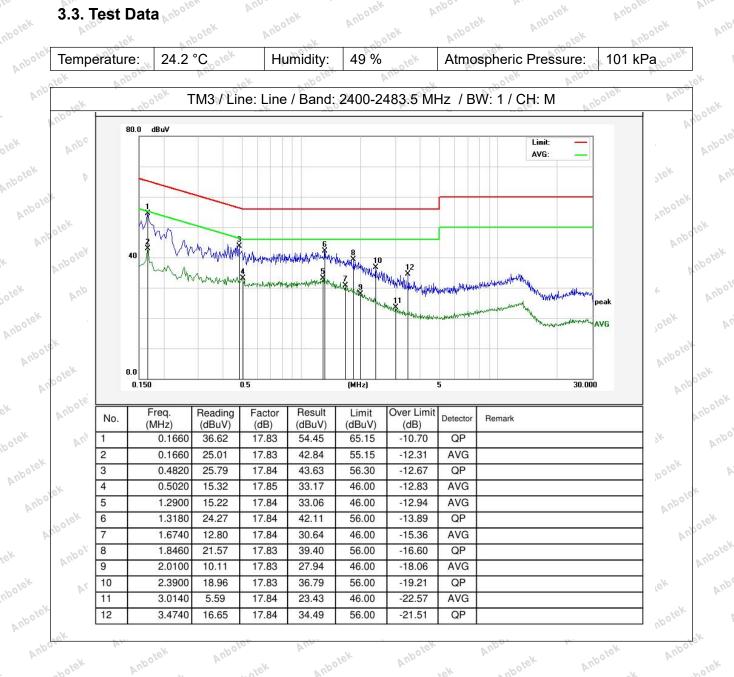
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3.3. Test Data



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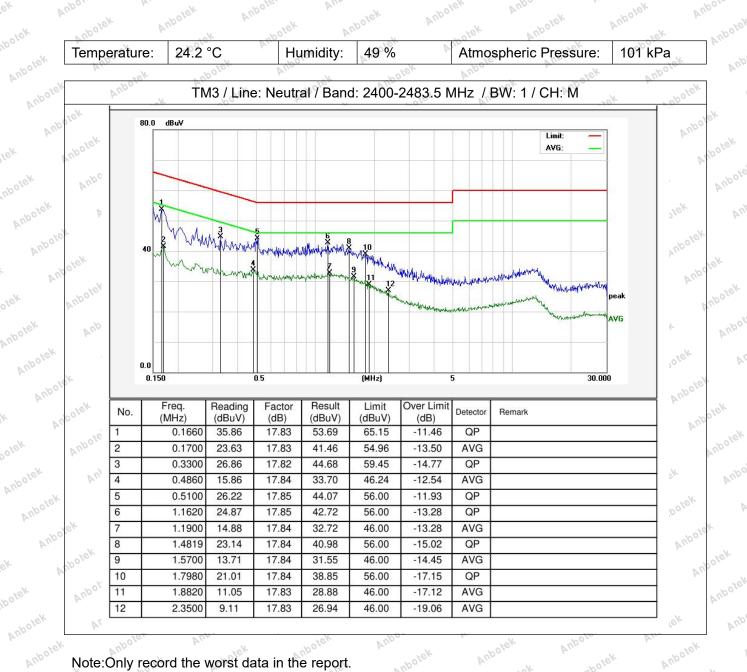
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Note:Only record the worst data in the report.

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Anbotek 4. Occupied Bandwidth

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Test Requirement:	47 CFR 15.247(a)(1)
tek 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
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
Anbotek Anbote.	may otherwise be specified in the specific rule section under which the
An. abotek Anbote	equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
- botek Ant	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test KDB 558074 D01 15.247 Meas Guidance v05r02
, All holek	The occupied bandwidth is the frequency bandwidth such that, below its
nboten Ano	lower and above its upper frequency limits, the mean powers are each equa
atek anboten	to 0.5% of the total mean power of the given emission. The following
Anbo	procedure shall be used for measuring 99% power bandwidth:
abotek Anbo	a) The instrument center frequency is set to the nominal EUT channel center
Am	frequency. The frequency span for the spectrum analyzer shall be between
Aupore A.	1.5 times and 5.0 times the OBW.
v wotek	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
oten And	
tek hoter	otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal
Aupor A.	from exceeding the maximum input mixer level for linear operation. In
botek Anbo	general, the peak of the spectral envelope shall be more than [10 log
Ann	(OBW/RBW)] below the reference level. Specific guidance is given in
Anbore An	4.1.6.2.
, otek A	d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range.
tek nboten	e) Video averaging is not permitted. Where practical, a sample detection and
po. A. tek	single sweep mode shall be used. Otherwise, peak detection and max-hold
botek Anbo.	mode (until the trace stabilizes) shall be used.
An-	f) Use the 99% power bandwidth function of the instrument (if available) and
Anbore. And	report the measured bandwidth.
h. hotek Anb	g) If the instrument does not have a 99% power bandwidth function, then the
AND	trace data points are recovered and directly summed in linear power terms.
ek abotek l	The recovered amplitude data points, beginning at the lowest frequency, are
- An	placed in a running sum until 0.5% of the total is reached; that frequency is
hotek Anbou	recorded as the lower frequency. The process is repeated until 99.5% of the
IN NOTEK	total is reached; that frequency is recorded as the upper frequency. The 99%
Anboter And	power bandwidth is the difference between these two frequencies.
A. atek Anbote	h) The occupied bandwidth shall be reported by providing spectral plot(s) of
Anbo	the measuring instrument display; the plot axes and the scale units per
abotek Ant	division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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lok	4.1. EUT Operation	Anbore	Anbotek	Anboten	And	Anbotek	Anbor
nbolo	Operating Environment:	And	Anbolek	Anbo	h nbotek	Anbore	
Anboro	hopping)	SK (Non-Hoppir with GFSK mod	lulation.	No sha	ter Ano		Vek
Ans	(non-hop	I-DQPSK (Non-I ping) with π/4 D	QPSK modulati	on. w	upore A.	. K	Notek
ote ^k	3: TX-8D hopping)	PSK (Non-Hopp with 8DPSK mo	ing): Keep the I dulation.	EUT in continue	ously transmittin	g mode (non-	Anbol
Anbotek	4.2. Test Setup	K Anbotek	K Anborek	Anbotek	Anbote	Anbotek	P,

4.2. Test Setup

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EUT		Spectrum Analyzer	
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4.3. Test Data

4.3. Test Dat	anboro A	Anbotek	Anboten An	anbotek Ant	potek	Anborn
Temperature:	25.5 °C	Humidity:	47 %	Atmospheric P	ressure:	101 kPa
Please Refer to	o Appendix for [Details. M ^{nbotek}	Anbote	Antotek	Anboten	ek Anb

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Please Refer to Appendix for Details. Anbo Anbotek

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Report No.:1813C40012512501 Anbotek FCC ID: 2ABC5-E0071 Anboti

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Anbotek 'upote 5. Maximum Conducted Output Power

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Test Requirement:	47 CFR 15.247(b)(1)
Teşt Limit: Anbolek	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 Anbotek nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	 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.
Procedure: m ^{otek}	d) Sweep: No faster than coupled (auto) time.e) Detector function: Peak.f) Trace: Max-hold.
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.
Anbotek Anbotek Ar Jotek Anbotek An	 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

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Operating Envir	ronment:	abotek	Anbort	A	Anboten	Ans			
otek Anbotek	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with GFSK modulation.								
Test mode:	(non-hopping)	2: TX- $\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.							
Anbotek A	3: TX-8DPSK (hopping) with 8			JT in continuor	usly transmitting) mode (non-	Anbot		
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nbotel 5.2. Test Setup

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5.3. Test Data

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5.3. Test Dat	anotek	Anbotek Anbo	nbotek	Anbolek Ant	poter An	Anbotek	P
Temperature:	25.5 °C	Humidity:	47 %	Atmospher	ic Pressure:	101 kPa	
Please Refer to	o Appendix	for Details.	Anbotek	Anboten Anbotek	And	Anbor	ek

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Please Refer to Appendix for Details. Anbotek

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6. Channel Separation

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6. Channel Sepa	iration and tek Andotek Andotek Andotek Andotek Andotek
Test Requirement:	47 CFR 15.247(a)(1)
potek 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
Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	 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.
Procedure: Anbotek Anbotek Anbotek	 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.
Anbotek Anbote Anbotek Anbot K Anbotek A	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	Anbor Ar Anbotek Anboter And Anbotek Anbotek Anborek Anbor

6.1. EUT Operation

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(P) _ ()	Anboten Ar	k volek	Anboro	abolek	ent: Anbo	Operating Environment	P.
Anbo	g mode (hopping)	inuously transmitti	EUT in contin				,ek
. A'	mitting mode	n continuously trar		lopping): Kee	X-π/4-DQPSK (H	Tost mode: 5: TX-	hote. tek
yske k	ng mode (hopping)	ntinuously transmit		ng): Keep the		6: TX	Anbo
	mitting mode	n continuously tran	o the EUT in tion.	on,. lopping): Kee QPSK modul ng): Keep the	GFSK modulatio X-π/4-DQPSK (Hopping) with π/4 DC X-8DPSK (Hoppin	Test mode: with G 5: TX- (hoppi 6: TX-	Anbotek

6.2. Test Setup

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6.3. Test Dat	a Anbotek	Anborentek	Ans	Anbotek	Anbornbotek	Anbotek
Temperature:	25.5 °C Andores	Humidity:	47 % ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Atmospheric	Pressure:	101 kPa 🔊 👘
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7. Number of Hopping Frequencies

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
ntotek Anbotek Anbotek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to
Procedure:	 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. c) Detector function: Deale
Anbotek Anboten Anbotek Anbotek	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
Anboten Anbotek Anbotek	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	Anbore An otek Anborek Ano esk storek Anbo

7.1. EUT Operation

ek	Operating Envir	ronment:	Anbotek	Aup	nbotek	Aupor	k hotek	P
hbotek Anbotek	Test mode:	with GFSK	modulation, QPSK (Hop	ping): Keep	the EUT in cor	usly transmittir ntinuously tran	ig mode (hoppir smitting mode	ig)
Anbe	7.2. Test Set	6: TX-8DPS with 8DPSK	K (Hopping): Keep the E		ously transmitt	ing mode (hopp	ing) over

7.2. Test Setup

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bote.	7.3. Test Data	Anbolt	Anbotek	Anboten	Ant	Anbotek	Anbote

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Temperature:	25.5 °C	Humidit	ty: 47 %	AUD	Atmospheric F	Pressure:	101 kPa	~
D.	101	000	, at	0	0. V	N	100	2

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8. Dwell Time

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Test Requirement:	47 CFR 15.247(a)(1)(iii)
k holek	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-
ien Ano	2483.5 MHz band shall use at least 15 channels. The average time of
atek Anboter	occupancy on any channel shall not be greater than 0.4 seconds within a
Test Limit:	period of 0.4 seconds multiplied by the number of hopping channels
anboten And	employed. Frequency hopping systems may avoid or suppress
A. Anbot	transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
And	ANSI C63.10-2020, section 7.8.4
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
who who have	The dwell time per hop on a channel is the time from the start of the first
he. Aur	transmission to the end of the last transmission for that hop. If the device ha
Lotek Anbore	a single transmission per hop then the dwell time is the duration of that
And K botek	transmission. If the device has a multiple transmissions per hop then the
Anboten And	dwell time is measured from the start of the first transmission to the end of
botek Anbo	the last transmission.
Anv	botek Andor h sotek Andote Attraction notek
K Anbote. A	The time of occupancy is the total time that the device dwells on a channel
k hotek	over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to
oten And	measure both the dwell time per hop and the number of times the device
stek Anbore.	transmits on a specific channel in a given period.
Anbo k hotek	Anboren a openine enamen in a groten period And
Anboten And	The EUT shall have its hopping function enabled. Compliance with the
h. atek Anb	requirements shall be made with the minimum and with the maximum
And	number of channels enabled. If the dwell time per channel does not vary wit
K upoter 1	the number of channels than compliance with the requirements may be
k hotek	based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel
poten And	for 1, 3 or 5 time slots) then measurements can be limited to the longest
Procedure:	dwell time with the minimum number of channels.
And ak shotel	Anboy h stek whote Any sk spoten
Anbots. Ans	Use the following spectrum analyzer settings to determine the dwell time pe
hotek Ant	Thop: An atek Anboten And tek abotek Anbo
Ann	a) Span: Zero span, contered on a hopping channel
ek Anbore	a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
w hotek	set $>> 1 / T$, where T is the expected transmission time per hop.
pore. And	c) Sweep time: Set so that the start of the first transmission and end of the
botek Anbote	last transmission for the hop are clearly captured. Setting the sweep time to
Anu-	be slightly longer than the hopping period per channel (hopping period =
Anboter Ano	1/hopping rate) should achieve this.
- otek An	d) Use a video trigger, where possible with a trigger delay, so that the start of
Ano	the transmission is clearly observed. The trigger level might need adjustment to reduce the change of triggering when the system here on an adjustment
tek Anboter	to reduce the chance of triggering when the system hops on an adjacent channel.
, notek	e) Detector function: Peak.
nboten Anb	f) Trace: Clear-write, single sweep.
atek Anboten	g) Place markers at the start of the first transmission on the channel and at
Anbur	the end of the last transmission. The dwell time per hop is the time between

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these two markers.

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

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

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

8.1. EUT Operation

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Operating Envi	ronment:	botek	Auporen	Ano	otek	Anbotek	Anbo	, ek	
Test mode:	4: TX-GFSk with GFSK 5: TX-π/4-D (hopping) w 6: TX-8DPS with 8DPSk	modulatio QPSK (H ith π/4 D K (Hopp	on,. lopping): k QPSK mod ing): Keep	Keep the EL dulation.	JT in cor	ntinuously	transmitting	mode	Å

8.2. Test Setup

EUT		Spectrun	n Analyzer
Ano	τ.	atek	Anbor-

8.3. Test Data

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,o	Temperature:	25.5 °C 10010	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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9. Emissions in non-restricted frequency bands

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Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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
_Anbote. And	either an RF conducted or a radiated measurement, provided the transmitter
Test Limit:	demonstrates compliance with the peak conducted power limits. If the
All. stek Anb	transmitter complies with the conducted power limits based on the use of
iek Anbo	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
otek Anborer	instead of 20 dB. Attenuation below the general limits specified in §
no lek abolek	15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7
Test Method.	KDB 558074 D01 15.247 Meas Guidance v05r02
botek Anbote	7.8.7.1 General considerations
An. tek of	To demonstrate compliance with the relative out-of-band emissions
orak Anbor Ar	requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers.
stek subotek	Frequency hopping shall be disabled for this test with the exception of
Anover A. Lotek	measurements at the allocated band-edges which shall be repeated with
Anboten Anot	hopping enabled. And the state And the state of the state
botek Anbote	Connect the primary antenna port through an attenuator to the spectrum
And set about	analyzer input; in the results, account for all losses between the unlicensed
K Anbore Am	wireless device output and the spectrum analyzer. The frequency range of
et spotek An	testing shall span 30 MHz to 10 times the operating frequency and this may
por An utek	be done in a single sweep or, to aid resolution, across a number of sweeps.
hotek Anb	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
A. Lotek Anbote.	boupied sweep time with a peak actediate.
And set abotek	The limit is based on the highest in-band level across all channels measured
Procedure:	using the same instrument settings (resolution bandwidth of 100 kHz, video
ek abotek Anbo	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
A''' atek a	required offset (typically 20 dB) below the highest in-band level. Where the
botek Anbo	highest in-band level is not clearly identified in the out-of-band
solek Anboler	measurements a separate spectral plot showing the in-band level shall be
knov we wotek	provided. And the Andrew Andre
Anbote. And Let	When conducted measurements cannot be made (for example a device with
abolek Anbore	integrated, non-removable antenna) radiated measurements shall be used.
An-	The reference level for determining the limit shall be established by
ter Aupor Ar	maximizing the field strength from the highest power channel and measuring
tek hobolek	using the resolution and video bandwidth settings and peak detector as
nto, w. ofek	described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB)
Anboten Anbo	below the highest in-band level. Radiated measurements will follow the
hotek Anboten	standards measurement procedures described in Clause 6 with the
NUD-	exception that the resolution bandwidth shall be 100 kHz, video bandwidth

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300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

7.8.7.2 Band-edges

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

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

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

9.1. EUT Operation

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Operating Envir	conment: And the spotek And And And And And
Anborek	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
Anbotek	(non-hopping) with $\pi/4$ DQPSK modulation.
otek Anbotek	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- hopping) with 8DPSK modulation.
Test mode:	4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anbotek Ar	5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
Anbotek	6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup

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9.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
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Frequency (MHz)Field strength (microvolts/meter)Measureme distance (meters)0.009-0.4902400/F(kHz)3000.490-1.70524000/F(kHz)301.705-30.0303030-88100 **388-216150 **3216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in t frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz However, operation within these frequency bands is permitted under oth sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremer employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.Test Method:ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	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	oly with the
Test Limit:0.490-1.705 1.705-30.024000/F(kHz) 3030 30Test Limit:0.490-1.705 1.705-30.024000/F(kHz)30 3030-88 88-216100 ** 	Anbotek Anbotek	Frequency (MHz)		10.
30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in t frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz However, operation within these frequency bands is permitted under oth sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremer employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. Text Method: ANSI C63.10-2020 section 6.10	Anbort Anbo			
Test Limit:216-960200 **3Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in t frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz However, operation within these frequency bands is permitted under oth sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremer employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.Test Mathed:ANSI C63.10-2020 section 6.10	Ant Anbotek	30-88	100 **	3
Test Limit:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in t frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz However, operation within these frequency bands is permitted under oth sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremer employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.Test Method:ANSI C63.10-2020 section 6.10	potek Anbotek	216-960	200 **	3
 However, operation within these frequency bands is permitted under oth sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremer employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. Test Method: 	Test Limit:	** Except as provided in pa intentional radiators operat	ragraph (g), fundamental emissi ing under this section shall not b	ons from e located in t
In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measuremer employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. Test Method: ANSI C63.10-2020 section 6.10	Anbotek Anb	However, operation within	these frequency bands is permit	
employing a CISPR quasi-peak detector except for the frequency bands 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.Test Method:ANSI C63.10-2020 section 6.10	ek Anbolen	In the emission table above	e, the tighter limit applies at the b	
Test Method: ANSI C63.10-2020 section 6.10	Anbotek Anbotek	employing a CISPR quasi- 90 kHz, 110–490 kHz and a	peak detector except for the freq above 1000 MHz. Radiated emis	uency bands sion limits in
	Test Method:	ANSI C63.10-2020 section		Anbor k Anbor

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10.1. EUT Operation

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Test mode:	hopping 2: TX-π (non-ho 3: TX-8	y) with GFSK /4-DQPSK (N opping) with π	modulation. on-Hopping): /4 DQPSK mo lopping): Keep	Keep the EUT	ntinuously trans in continuously ontinuously tran	r transmitting r	node
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Report No.:1813C40012512501 Anbotek FCC ID: 2ABC5-E0071 Anbote

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nbotek 10.2. Test Setup

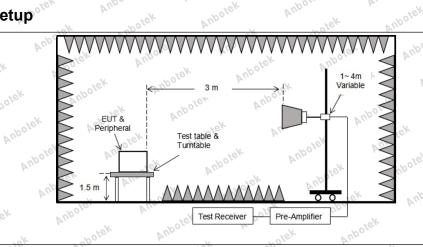
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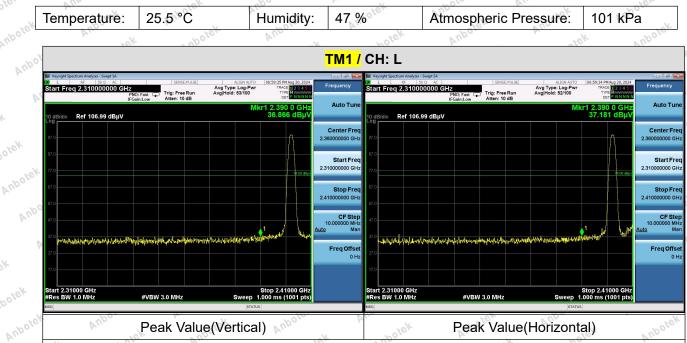
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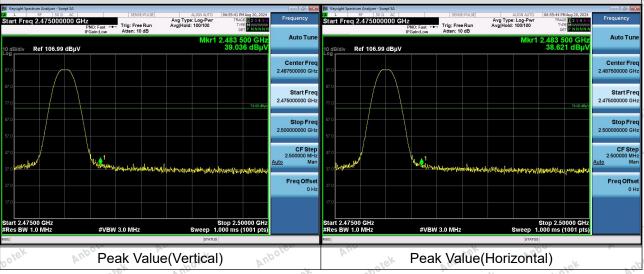
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10.3. Test Data



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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.

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2. During the test, pre-scan all modes, the report only record the worse case mode.

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Test Requirement:	restricted bands, as define	l), In addition, radiated emissio ed in § 15.205(a), must also co pecified in § 15.209(a)(see § 19	mply with the
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measuremer distance (meters)
Anbor An	0.009-0.490	2400/F(kHz)	300
abotek Anb	0.490-1.705	24000/F(kHz)	30 And
P	1.705-30.0	30 ^K An ^{bo}	30
ek Anbor	30-88	100 **	n ^{b0} 3
botek	88-216	150 **	3 tek
hole. An-	216-960	200 **	3
- otek Anbore	Above 960	500 mb	3 nbore
Anbolek Anbole Anbole	intentional radiators opera frequency bands 54-72 M However, operation within	paragraph (g), fundamental emi ating under this section shall no Hz, 76-88 MHz, 174-216 MHz these frequency bands is perr	ot be located in th or 470-806 MHz.
tek Anbotek		§§ 15.231 and 15.241. ve, the tighter limit applies at th n in the above table are based	
nbotek Anbor Anbotek Anbotek	employing a CISPR quasi 90 kHz, 110–490 kHz and	-peak detector except for the fi l above 1000 MHz. Radiated en sed on measurements employing	requency bands mission limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247		potek Anbote
Procedure:	ANSI C63.10-2020 section	how his	Vie. Vu

11. Emissions in frequency bands (below 1GHz)

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11.1. EUT Operation

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P	Operating Envir	ronment:	- Otek	Anbotek	Anb	nbotek	Anbor	P. Notek
ek hotek	Test mode:	hopping) with 2: TX-π/4-DC (non-hopping	n GFSK mo QPSK (Non g) with π/4 I	dulation. -Hopping): K DQPSK mod	eep the EUT i ulation.	tinuously transm in continuously t ntinuously trans	transmitting mo	ode Anbo
Anbo	ter And	hopping) with			nbolek		hinding mode (Auporer
P	Inboten And	botek Ar	botek	Anbo. stek	A. Anbotek	Anbote. Lak	Annapotek	Anbotek

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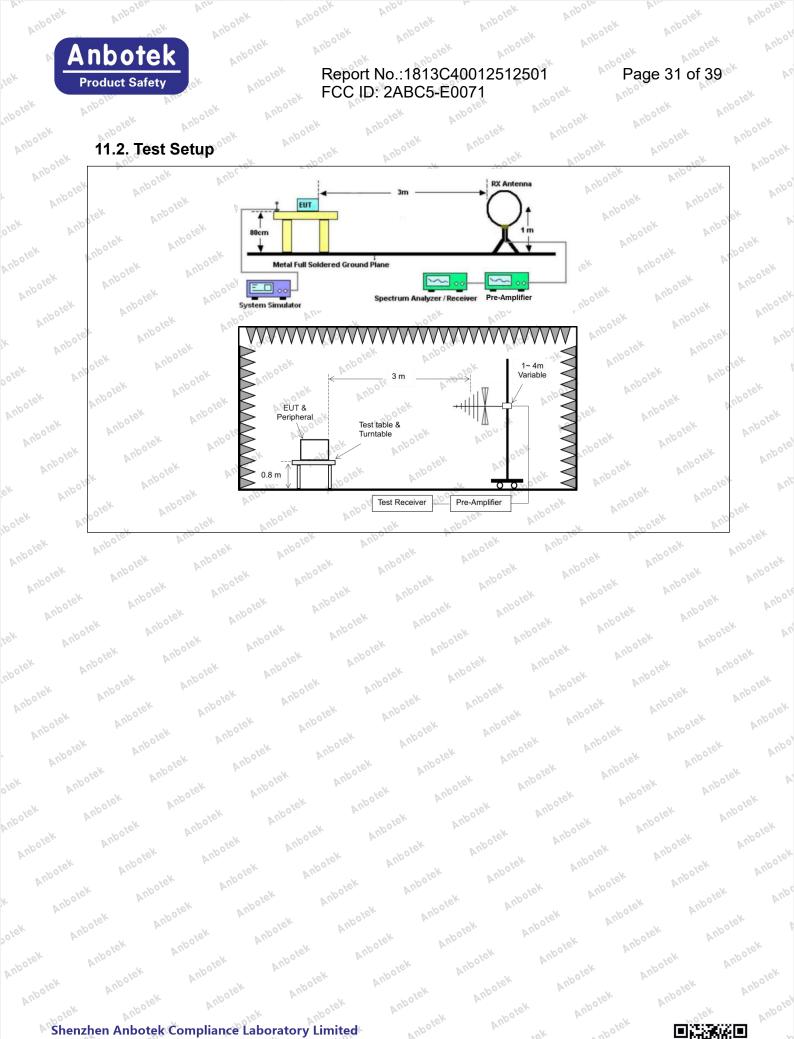
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Report No.:1813C40012512501 FCC ID: 2ABC5-E0071

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11.3. Test Data

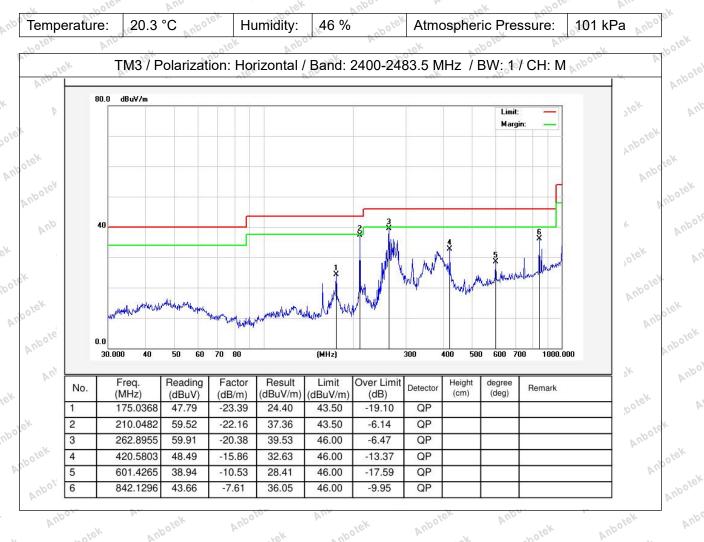
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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Report No.:1813C40012512501 FCC ID: 2ABC5-E0071

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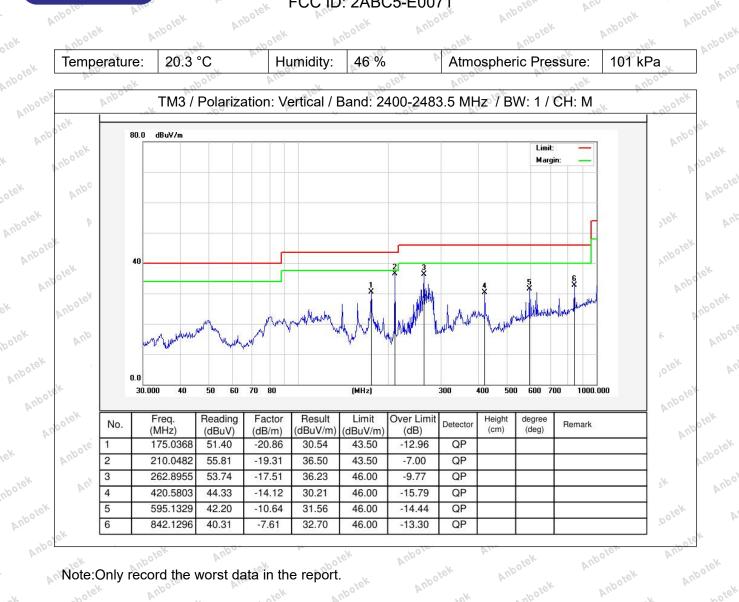
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Note:Only record the worst data in the report. Anbotek Anbotel

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Test Requirement:		ons which fall in the restricted ba omply with the radiated emission 5(c)).`	
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbote	0.009-0.490 0.490-1.705 1.705-30.0	2400/F(kHz) 24000/F(kHz) 30	300 30 30
ek Anbotek Ant	30-88 88-216	100 **	3 3 6 4 1
Test Limit:	216-960 Above 960	200 ** 500 ragraph (g), fundamental emissi	3 3 moter
Anbotek Anbote. Anbotek Anbot	intentional radiators operati frequency bands 54-72 MH	ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241.	e located in the 470-806 MHz.
A store Al	In the omission table shows	the tighter limit englise at the	and addag
tek Anbolte. Al nboltek Anboltek Anboltek Anboltek hotek Anboltek	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	e, the tighter limit applies at the to in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emised on measurements employing	measurements uency bands 9 ssion limits in
npotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Test Method: Anbo	The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing 6.6.4	measurements uency bands 9 ssion limits in

12. Emissions in frequency bands (above 1GHz)

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12.1. EUT Operation

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Þ	Operating Envir	onment:	Vu. Polek	Anbotek	Ano	nbotek	Anbor	p
ek Nootek Anbr	Test mode:	hopping) v 2: TX-π/4- (non-hopp 3: TX-8DP	vith GFSK m DQPSK (No ing) with π/4	nodulation. n-Hopping): ł l DQPSK moc opping): Keep	Keep the EUT dulation.	tinuously transr in continuously ntinuously trans	transmitting m	node
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12.2. Test Setup

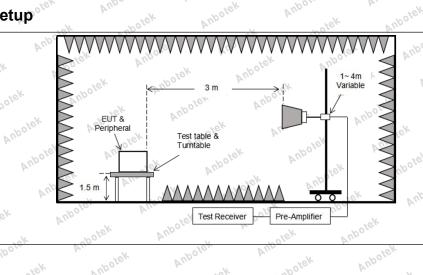
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Temperature:	24.4 °C	Humidity:	53 %	Atmospheric	Pressure: 1	l01 kPa
R., 'ek	abolet	And	hotek	Aupo	N. Nek	Aupore
			TM3 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4804.00	30.92	15.27	46.19	74.00	-27.81	Vertical
7206.00	31.44	18.09	49.53	74.00	-24.47	Vertical
9608.00	33.54	23.76	57.30	74.00	-16.70	Vertical
12010.00	ek * nbotek	Aupor	K NO	74.00	Ant	Vertical
14412.00 ⁰⁰⁰	*	otek Anbo	te. Aur	74.00	otek Anbo	Vertical
4804.00	o ^{ver} 30.97	15.27	46.24	74.00	-27.76	Horizonta
7206.00	33.00	18.09	51.09	74.00	-22.91	Horizonta
9608.00	29.84	23.76	53.60	74.00	-20.40	Horizonta
12010.00	Anv*	npotek	Anbor	74.00	Anboren	Horizonta
14412.00	Aupore	P. Jek	Anbotek	74.00	K nbotek	Horizonta
Average value: Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4804.00	20.30	15.27	35.57	54.00	-18.43	Vertical
7206.00	20.47	18.09	38.56	54.00	-15.44	Vertical
9608.00	22.56	23.76	46.32	54.00	-7.68	Vertical
12010.00	* 100/	sk Anbo.	-V - W	54.00 NO	An	Vertical
14412.00	* *	otek Ant	oter And	54.00	botek Ant	Vertical
4804.00	19.32	15.27	34.59	54.00	-19.41	Horizonta
7206.00	22.06	18.09	40.15	54.00	-13.85	Horizonta
9608.00	19.15	23.76	42.91	54.00	+11.09	Horizonta
12010.00	An*	Anborek	Anboten	54.00	Anbotek	Horizonta
14412.00	* * Aupore	p.v.	ar Anbore	54.00	Y0	Horizonta

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Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China, 😽 Anbotek And Tel:(86)0755-26066440 Email:service@anbotek.com Anbo Anbote

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Report No.:1813C40012512501 Anbotek FCC ID: 2ABC5-E0071 Anbote

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pote Am	otek Anbol	ien Ann	potek Anb	otek Anbo		potek Ant				
Anbotek Anb		botek An	<u>v</u>	Lotek A	nbotek Ant	-16K				
TM3 / CH: M										
Peak value:										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization				
4882.00 mo ^{ve}	30.94	15.42	46.36	74.00	e ^k -27.64 no ⁰¹	Vertical				
7323.00	otek 31.29 Anb ^c	18.02	49.31	⁹¹⁰¹ 74.00 ^{AND}	-24.69	Vertical 🕅				
9764.00	32.55	23.80	56.35	74.00	-17.65	Vertical				
12205.00	AND *	abotek	Anbor	74.00	Anboten	Vertical				
14646.00	Anbo*	An	Anbotet	74.00	nbotek	Vertical				
4882.00	30.67	15.42	46.09	74.00	-27.91	Horizontal				
7323.00	32.99	18.02	51.01	74.00	-22.99	Horizontal				
9764.00	29.54	23.80 NO	53.34	74.00	o ^{vek} -20.66 p ^{nb0}	Horizontal				
12205.00	poter * And	- A	botek Ar	74.00	Lotek A	Horizontal				
14646.00	~botek*	Aupor	tek.	74.00	And	Horizontal				
Average value:										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization				
4882.00	20.03	15.42	35.45	54.00	-18.55	Vertical 🕬				
7323.00	20.57	o ^{vek} 18.02 M ⁿ¹⁰	38.59	54.00	-15.41	Vertical				
9764.00	22.42	23.80	46.22	54.00	-7.78	Vertical				
12205.00	Anbore*	Ann	h nbotek	54.00	obolek	Vertical				
14646.00	nbotek	Anboro	h hotek	54.00	Attek	Vertical				
4882.00	19.23	15.42	34.65	54.00	-19.35	Horizontal				
7323.00	21.62	18.02 NO	39.64	54.00	-14.36 ^{% of the}	Horizontal				
9764.00	19.66× ⁰⁰⁰	23.80	otek 43.46 And	54.00	10.54	Horizontal				
12205.00	Lotek * Al	Pole. Vu	Nor I	54.00	100 1	Horizontal				

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N.V.		PVW	TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.21	15.58	46.79	74.00	-27.21	Vertical
7440.00	31.30	17.93	49.23	otek 74.00 pmb	-24.77	Vertical
9920.00	33.10	23.83	56.93	74.00	17.07 ^M	Vertical
12400.00	Aupore *	atek	Anboten	74.00	habolek	Vertical
14880.00	Vupo*en	Anbor	abotek	74.00	A	Vertical
4960.00	30.74	15.58	46.32	74.00	-27.68	Horizontal
7440.00	33.02	17.93	50.95	74.00	-23.05	Horizontal
9920.00	30.22	23.83	54.05 ⁰⁰	74.00	19.95 NO	Horizontal
12400.00	otek * Ant	DED DE	arek ar	o ^{ven} 74.00 ^{Ant}	Lek .	Horizontal
14880.00	alek*	hotek A	no-	74.00	Anbore A	Horizontal
Average value:						_
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	21.15	15.58	36.73	54.00 m ^{ot}	-17.27	Vertical No
20017440.00 pm ^{b0}	21.58	otek 17.93 Mrb	39.51	54.00	o ^{tek} -14.49 M ^{nb}	Vertical
9920.00	22.97 ^{Ma}	23.83	46.80	54.00	-7.20	Vertical
12400.00	abote*	Anbor	A. wolek	54.00	Ann	Vertical
14880.00	A. * tek	Anbotek	Ann	54.00	Anbore.	Vertical
4960.00	20.67	15.58	36.25	54.00	-17.75	Horizontal
7440.00	22.99	17.93	40.92	54.00	-13.08,00 ¹⁰	Horizontal
9920.00	19.56 no ⁰	23.83	43.39	54.00 × nb ⁰	-10.61	Horizontal
12400.00	*	botek Ant)o. b.	54.00	VPOR. AU.	Horizontal
14880.00	nbor * A	- otek	Anboten	54.00	, upotek	Horizontal

Remark:

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- 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. otek

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3. Only the worst case is recorded in the report. Anbotek

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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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End of Report -Anbotel Anbotek

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