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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

FCC Test Report

Applicant : GuangDong SINOY Smart Technology CO., LTD

Anbolek

5TH Floor, Building #2, RunFengZhiGu

Anbolek

Address : Industrial Park Changpin Town, Dong Guan City,

Guangdong, 523000, China

Product Name : Smart Projector

Anbolek

Report Date : Aug. 27, 2024

Shenzhen Anbotek

Compliance Laboratory Limited

Approved *

Anbotek







Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

TEST REPORT

Applicant : GuangDong SINOY Smart Technology CO., LTD

Manufacturer : GuangDong SINOY Smart Technology CO., LTD

Product Name : Smart Projector

Model No. HY320, HY320A, HY320B, HY320C, HY320D, HY320E, HY320F,

HY320G, HY320H, HY320I

Trade Mark : N/A

Rating(s) : Input: 110-240V~, 2.5A, 80W

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:	And Jolek Jul. 22, 2024
Date of Test:	Jul. 22, 2024 to Aug. 13, 2024
Prepared By:	Nian xiu Chen
nbolek Anbolek Anbolek	(Nianxiu Chen)
Ambotek Anbotek Anbotek	Idward pan
Approved & Authorized Signer:	(Edward Pan)







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	Anboron	'upolek	Vupore	St. Wigner	tok Anbotok	A no con	le Vipajak	<i>b</i> .'
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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

1. General Information

1.1. Client Information

	194"		18. 10.
~	Applicant	:	GuangDong SINOY Smart Technology CO., LTD
100	Address	:	5TH Floor, Building #2, RunFengZhiGu Industrial Park Changpin Town,DongGuan City, Guangdong, 523000, China
	Manufacturer	:	GuangDong SINOY Smart Technology CO., LTD
	Address	:	5TH Floor, Building #2, RunFengZhiGu Industrial Park Changpin Town,DongGuan City, Guangdong, 523000, China
0	Factory	:	GuangDong SINOY Smart Technology CO., LTD
No.	Address	:	5TH Floor, Building #2, RunFengZhiGu Industrial Park Changpin Town,DongGuan City, Guangdong, 523000, China

1.2. Description of Device (EUT)

VIEW TUN		All Market and the second seco
Product Name	:	Smart Projector
Model No.	:	HY320, HY320A, HY320B, HY320C, HY320D, HY320E, HY320F, HY320G, HY320H, HY320I (Note: All samples are the same except the model number, so we prepare "HY320" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	FPC Antenna bottom Antology Antology Antology
Antenna Gain(Peak)	:	3.33dBi Andrew Andrew Andrew Andrew

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.





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1.3. Auxiliary Equipment Used During Test

Ŋ.	Title	Manufacturer	Model No.	Serial No.		
	ioh Willow Du	Notes Williams	Vipotos / Vip	amboliek / Ambo		

1.4. Operation channel list

Operation Band:

Operation	Band:	" upo.	Sec.	10%	Ope. Wille	5.0	10tek
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0 1000	2402	o ^{16 k} 20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463,000
nbolok 2	2404	22	2424	42	2444	62	2464 NA
Aup 3 en	2405	23	2425	43	2445 M	63	2465
4,000	2406	24	2426 Maria	44	2446	64	2466
5 NO	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67 _M ho ⁰	2469
8,01	2410	28	2430	48 no 1	2450	olo* 68	2470
M 9	2411	29 nb ot	2431	10 A 49 M	2451	69	2471
10	2412 _{nb} o	_{ek} 30 _{Vup}	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474 100
Anbolia	2415	3301014	2435	53	2455 _m (100)	73 And	2475
14	2416	34 1001	2436	54	2456	⁰⁰ 74	2476
15,000	2417	35	2437 M	55	2457	Mnb 0 75	2477
16	2418	36	2438	56 56	2458	76	2478
niek17	2419	37	2439	57	2459	77, noote	2479
18	2420	38	2440	58	2460	* 78 _{Math}	2480
19 tok	2421	39	2441	59 And	2461	-010K -	Vilpolok - I
50,57	- V-		Tan. Mr. 47.		20,00	20.74	5.0





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1.5. Description of Test Modes

Pretest Mod	les	Descriptions					
not Anti-TM1	Vupo _{re}	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.					
TM2	ak at	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.					
Anborek TM3	2016 ₁	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.					
And And TM4	"POIGH	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.					
TM5	W. Walak	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.					
TM6.	Anbolio And	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.					
1.6. Measureme	nt Uncert	ainty abotek Antotek Antotek Antotek Antotek					

1.6. Measurement Uncertainty

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

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.









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1.7. Test Summary

		10,
Test Items	Test Modes	Status
Antenna requirement	Lolok / Aubolek	P P
Conducted Emission at AC power line	Mode1,2,3	Pupa
Occupied Bandwidth	Mode1,2,3	P Marie
Maximum Conducted Output Power	Mode1,2,3	P P
Channel Separation	Mode4,5,6	Anbol P
Number of Hopping Frequencies	Mode4,5,6	P
Dwell Time Antibotek	Mode4,5,6	Panbole
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	ak P ani
Band edge emissions (Radiated)	Mode1,2,3	DONON P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	P ₁₀ k
Note: P: Pass	William Williams	Vun.
N: N/A, not applicable	W. Wholes Vipoles	Wille

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.







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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.

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1.10. Test Equipment List

po.	Cond	ucted Emission at A	C power line	Vilpoye.	Vun.	Aupolek	Willian.
Vupo.	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Vipo	Jole H	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
lak b	200	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
nbotek	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Andotek	Wile Spelle
Aupolo	4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Occupied Bandwidth Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Ite	m Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A Mridoo	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
do ⁰ .5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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Report No.:182512C400544101 Anbolek FCC ID: 2BCAX-HY320M

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	edge emissions (Ra sions in frequency ba		YUROJEK D	upolek	Antolek	Anbo. hotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
_k o\-1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
23 ^k	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3,00	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	Will State	Vin Vien
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
¹⁰⁰ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

840	Note H	Vupos by	-tol-	W. Upoles	Pur.	" " PO (18)"
Emis	sions in frequency ba	ands (below 1GHz)	William Stoke	VUPOLOR.	Wilpar "ok	W.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
otell	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2,0	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3,00	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	SHURPLE	N/A	N/A	Vupas	K / 10010K

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

2. Antenna requirement

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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 Test Requirement: 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 FPC Antenna which permanently attached, and the best case gain of the antenna is 3.33dBi. It complies with the standard requirement.

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

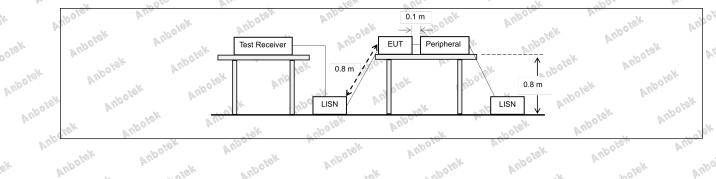
3. Conducted Emission at AC power line

	10.		and the second s
Voly Vupojek Vupo	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the ra	hat is designed to be con	nected to the
Test Requirement:	back onto the AC power line on an	y frequency or frequencie	s, within the
Augolek Augolek	band 150 kHz to 30 MHz, shall not measured using a 50 μH/50 ohms (LISN).		
"Office Wall Dogs	Frequency of emission (MHz)	Conducted limit (dBµV)	Villa.
Willy of the	olek Aupo, Mark	Quasi-peak	Average
- 11: Vapage Vus	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56	46
OFOR AUDS	5-30 of antion	60	50
olok anbores	*Decreases with the logarithm of th	e frequency.	Vupoje. Vu
Test Method:	ANSI C63.10-2020 section 6.2	And oten And	VUpalek
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-
3.1. EUT Operation	Solsi. Wunn Polek Wupdiek	Ando otok Anbo	Itek Anbore

3.1. EUT Operation

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	Operating Envir	onment:	abolek.	Vupor	WOLOK.	Anboles	VUL
10	Test mode:	1: TX-GFSK (Non-hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with 3: TX-8DPSK (Non-hopping) with 8DF	SK modulation. ((Non-Hopping) η π/4 DQPSK m n-Hopping): Kee	: Keep the EU odulation. ep the EUT in	JT in continuous	ly transmitting	g mode

3.2. Test Setup







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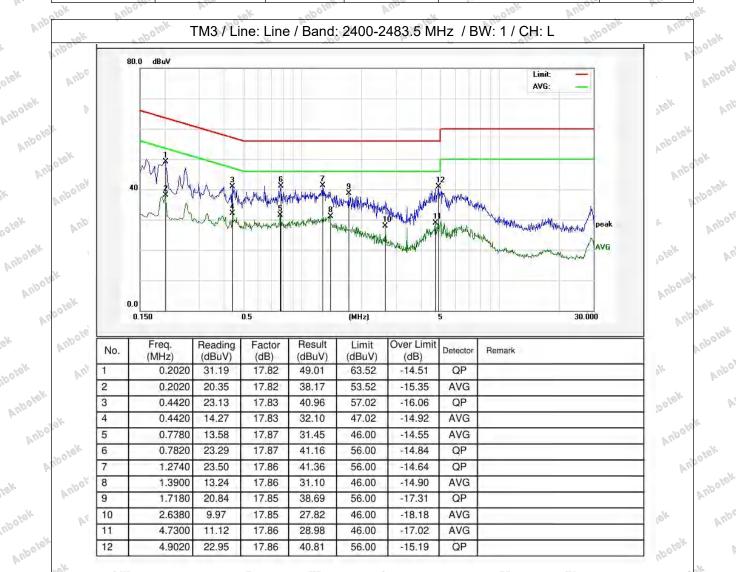
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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

3.3. Test Data

24.9 °C 53 % Temperature: **Humidity:** Atmospheric Pressure: 101 kPa







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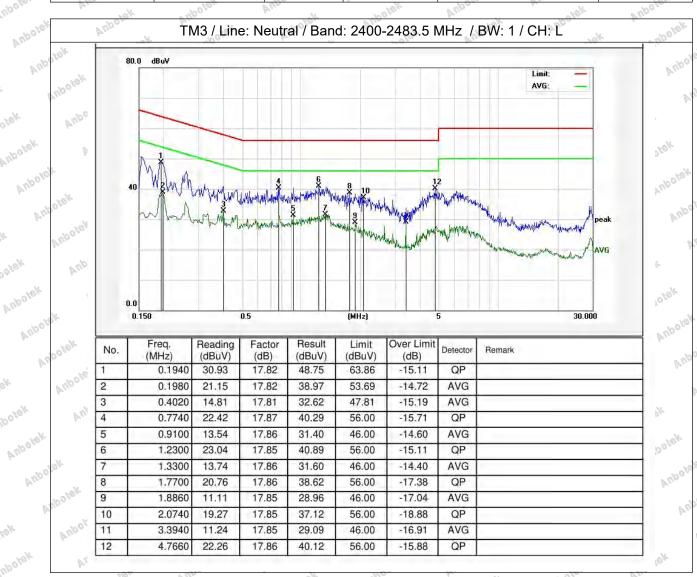
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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

Ť	emperature:	24.9 °C	Н	lumidity: 5	53 %	Atmospheric	Pressure:	101 kPa
	1.00	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.0	0.77	9	9-10-Y	V 6/2	



Note: Only record the worst data in the report.

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

4. Occupied Bandwidth

OFE P	William of the second	ter the transfer of the transf
· O'lek	Test Requirement:	47 CFR 15.247(a)(1)
A Up.	nTest Limit:	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
k Stok	Aupotek Aupotek	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.
Vupo _{lo}	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
V Life	Valotek Vupotek	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:
¹⁰⁰¹⁰ k	k Anbolok Anbole	a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
Vipor	ootek Anbotek	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
iek	Aupolek Aupolek	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
upo _{lier}	Procedure:	4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range.
V	ibolek Anbolek	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.
)tok	Aupolek Aupolek	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the
Vupo vejk	lak Wipolek w	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
¢.	upotek Aupotek	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.
otek	Willough Willows	h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to
^{(©} forts	W. O. A.	the plot(s).



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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

4.1. EUT Operation

Operating Environment:

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

hopping) with GFSK modulation.

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Test mode:

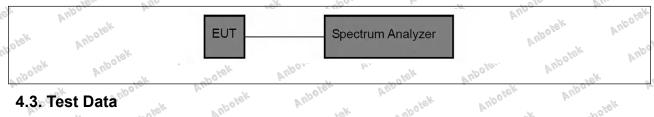
2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode

(non-hopping) with $\pi/4$ DQPSK modulation.

3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with 8DPSK modulation.

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4.2. Test Setup



4.3. Test Data

Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

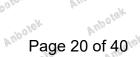
5. Maximum Conducted Output Power

PUP.	They along the Holes William Step
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
otek Aupotek V	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
Anbolek Anbolek Anbolek Anbolek	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:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
Aupolek Aupolek	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
Antolek Ant	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
Polek Vupolek	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
Anbotek Anbotek	bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

y.	Operating Envir	onment:	"potek	Anbo.	ha.	Wupope,	VII.
00	Test mode: Anbore	1: TX-GFSK (Non-hopping) with GFS 2: TX-π/4-DQPSK (non-hopping) with	K modulation (Non-Hoppin π/4 DQPSK	n. ng): Keep the K modulation.	EUT in continu	ously transm	nitting mode
	Wilpoyee b	3: TX-8DPSK (Nor hopping) with 8DP			I in continuously	y transmitting	mode (non-





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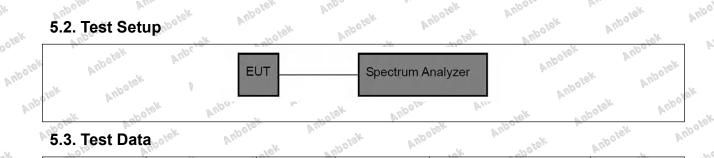
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5.2. Test Setup



5.3. Test Data

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Temperature:	26.3 °C	Hun	nidity: 45 %	Atmospl	heric Pressure:	101 kPa	
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Please Refer to	o Appendix	for Details.	siek nib	20- W.	ak aboten	VUP	No.

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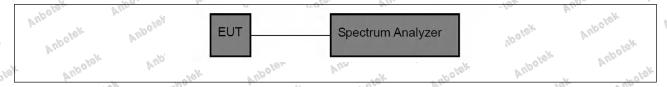
6. Channel Separation

Dr. Comments	The part of the pa	
Test Requirement:	47 CFR 15.247(a)(1)	10,
Test Limit: 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 MH 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 nagreater than 125 mW.	łz
Test Method:	ANSI C63.10-2020, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	,010k
Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.	Brup.
Procedure:	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.	Nu _{lo}
ak Anbotek Anbot	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.	e O

6.1. EUT Operation

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\$	Operating Envir	onment:	William Fell	Apjoda.	Vupo.	P. Clok	Will Oppor	Wille.
	Aupalek	with GFS	SK modulation	,. Anbo		usly transmitting	P	ng)
	Test mode:	(hopping) with π/4 DQ	PSK modulation	on.	ntinuously transr	54	Notok
(o)	liek Wupotek		PSK (Hopping SK modulatio		UT in continuo	ously transmittin	g mode (hopp	ing)

6.2. Test Setup



6.3. Test Data

Temperature:	26.3 °C	Humi	idity: 45 %	Atmosphe	eric Pressure: 101 kPa	*

Please Refer to Appendix for Details.

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

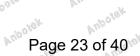
7. Number of Hopping Frequencies

VII.	They want to the state of the s
Test Requirement:	47 CFR 15.247(a)(1)(iii)
tek Anbotek	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
Test Limit: Anbolek Anbolek Anbolek	period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek	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
Anbolek Anbo	be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
uk Anbolek Anbo	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.
- Col-	Spectral plot of the data shall be included in the test report.

7.1. EUT Operation

Operating Envir	ronment:
Test mode:	 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.





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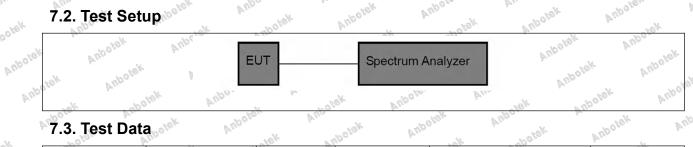
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7.2. Test Setup



7.3. Test Data

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7.3. Test Dat	ta _{loolek}	Vupose, Vue	nbotak Ar	Polos Wilds	,0010lk	Anbolek	P.U.
Temperature:	26.3 °C	Humidity:	45 %	Atmospheric	Pressure:	101 kPa	
Please Refer to	o Appendix f	for Details.	Anbolok	Auporge	Anbatek	Anbold	niel.

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

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8. Dwell Time	W. Augorek Augo, tek Vipolek Vipole
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Play Vipoley	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a
Test Limit:	period of 0.4 seconds multiplied by the number of hopping channels
Anto see Anto	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
otek Vipoto,	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
Anbotek Anbo.	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
Vipoles Nupr	dwell time is measured from the start of the first transmission to the end of
Will Older Will Will Will Will Will Will Will Wil	the last transmission.
Willpose b	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
olek Wigorg	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
Wupolok Wupon	transmits on a specific channel in a given period.
Anboron Ano	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum
Autour	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
William Pulay	based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel
Procedure:	for 1, 3 or 5 time slots) then measurements can be limited to the longest
Anbores Am	dwell time with the minimum number of channels.
Wupare We	Use the following spectrum analyzer settings to determine the dwell time per hop:
Vipos	a) Span: Zero span, centered on a hopping channel.
er Aug	b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop.
upoles Aur apolek	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
Autore Alicabot	be slightly longer than the hopping period per channel (hopping period =
Augorg Way	1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of
Willpor Weller	the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent
olek Vuga	channel. e) Detector function: Peak.
Vipoles Vale	f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at
Aupor	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 × 10, or 60 hops.

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

8.1. EUT Operation

Operating Environment:

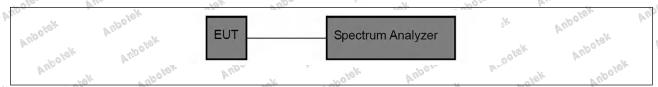
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation...

Test mode:

5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.

6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

8.2. Test Setup



8.3. Test Data

20,0	Temperature:	26.3 °C	Humidity:	45 %	1010H	Atmospheric Pre	ssure:	101 kPa	, 0°0°
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Please Refer to Appendix for Details.



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9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
k Anbolek Anboli	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
ootek Anbotek	transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
ek Anbolek Anbolek Anbol	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.
hootek Anbough	The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure: Ambotak	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
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	when conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth

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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.

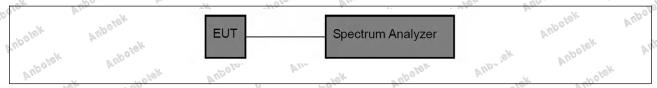
For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

9.1. EUT Operation

Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: $TX-\pi/4$ -DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
- 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..
- 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

9.2. Test Setup



9.3. Test Data

Temperature:	26.3 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

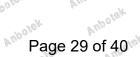
10. Band edge emissions (Radiated)

Procedure:	ANSI C63.10-2020 sec	tion 6 10 5 2	Violes, Viv.
Test Method:	ANSI C63.10-2020 sec KDB 558074 D01 15.24	tion 6.10 47 Meas Guidance v05r02	Upolek Vupole.
Wilpose, Wil		pased on measurements employ	
20 kg Was		asi-peak detector except for the and above 1000 MHz. Radiated 6	
P. alok		own in the above table are based	
k yabolak	sections of this part, e.g	g., §§ 15.231 and 15.241. bove, the tighter limit applies at t	he hand edges
Ambalak	However, operation with	hin these frequency bands is pe	
Anboick And	intentional radiators ope	erating under this section shall n MHz, 76-88 MHz, 174-216 MHz	ot be located in the
Test Limit:	10/2	n paragraph (g), fundamental en	7.0
o. h.	Above 960	500	3 3 50
rek Anbolok	88-216 216-960	150 ** 200 **	3,3
Vupote.	30-88	100 **	And 3
Wuga	1.705-30.0	30%	30 nboll
w. Colok	0.490-1.705	24000/F(kHz)	30 Minor
anbotek Anbe	0.009-0.490	2400/F(kHz)	(meters) 300
"Upores Vur	lek Vipolek Vupo	(microvolts/meter)	distance
1810H.	Frequency (MHz)	Field strength	Measuremen
Test Requirement:	radiated emission limits	fined in § 15.205(a), must also c s specified in § 15.209(a)(see § ′	15.205(c)).`

10.1. EUT Operation

ri No.	Operating Envir	onment:	orole	Vuporen	Vun	9K	ipotek	Anbo.	he.
- No.	W.	1: TX-GFSK (EUT in co	ontinuousl	/ transmitt	ing mode (n	on-
upolo,	- Maria	hopping) with 2: TX-π/4-DQ			ep the EU	T in contin	uouslv trai	nsmitting m	ode
Vipolok	Test mode:	(non-hopping)) with π/4 D0	QPSK modu	lation.	VUPOSe.	W.	1/0-	doi:0h
	lok Wipolg	3: TX-8DPSK			ne EUT in (continuous	ly transmi	tting mode (non-
VUS		hopping) with	ADL2K WO	duiation.	"PO"	Dec.	V	10/8"	VUD.





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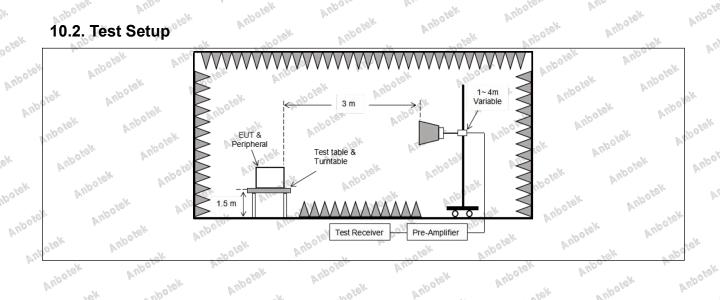
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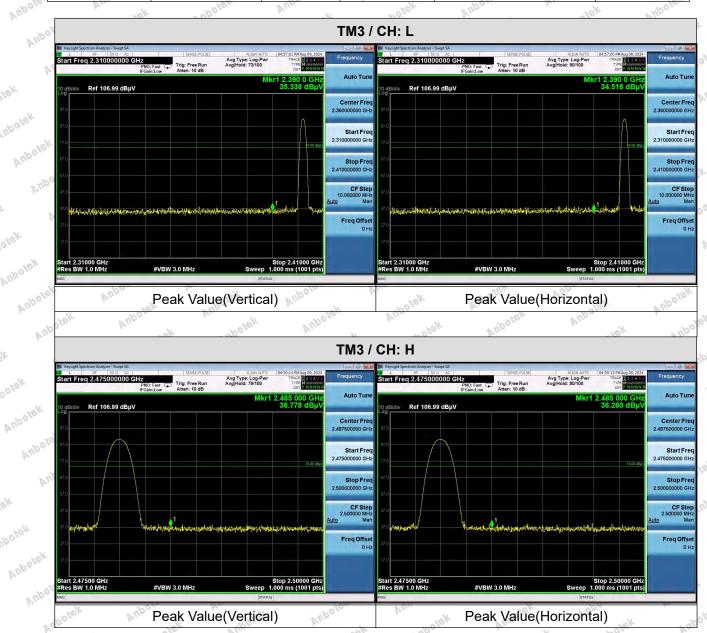
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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

10.3. Test Data

Temperature: 26.3 °C Humidity: 45 % 101 kPa Atmospheric Pressure:



Remark:

- 1. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.
- 2. During the test, pre-scan all modes, the report only record the worse case mode.





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11. Emissions in frequency bands (below 1GHz)

Volum VUD.	radiated emission limits sp	ecified in § 15.209(a)(see § 15.	205(C)).
Spolek Wipolek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance
y,, "pole,	And k colok	Anbost	(meters)
Wilpon W.	0.009-0.490	2400/F(kHz)	300
"Olek Vupo	0.490-1.705	24000/F(kHz)	30
Wun	1.705-30.0	30	30 Note
r Wipole, V.	30-88	100 **	3
, alok	88-216	150 **	3,101
Of Br And	216-960	200 **	3
iek abolen	Above 960	500	3 10010
Test Limit:	10,		The second secon
NICOL LITTIL.	** Except as provided in pa	aragraph (g), fundamental emiss	sions from
And olek		aragraph (g), fundamental emiss ting under this section shall not	
Anborek Anborek	intentional radiators opera frequency bands 54-72 Mł	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or	be located in the 470-806 MHz.
Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi	be located in the 470-806 MHz.
Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., §	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi §§ 15.231 and 15.241.	be located in the 470-806 MHz. tted under other
Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi §§ 15.231 and 15.241. e, the tighter limit applies at the	be located in the 470-806 MHz. tted under other band edges.
Anbolek Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or	be located in the 470-806 MHz. tted under other band edges. measurements
Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi-	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the fre	be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9-
Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the fre above 1000 MHz. Radiated emi	be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9-ission limits in
Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the fre	be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9-ission limits in
Test Method:	intentional radiators opera frequency bands 54-72 MH However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and these three bands are bas	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permiss 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the fre above 1000 MHz. Radiated emited on measurements employing 16.6.4	be located in the 470-806 MHz. tted under other band edges. measurements quency bands 9-ission limits in

11.1. EUT Operation

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-0/-	W.		lon-Hopping): K GFSK modulatio		n continuous	ly transmittin	g mode (non	1-
upor	Test mode:	2: TX-π/4-DQF	SK (Non-Hoppi	EUT in continuously transmitting mode (non- ep the EUT in continuously transmitting mode lation. e EUT in continuously transmitting mode (non-				
Vupor	rek ubotek		with π/4 DQPSł Non-Hopping):∃		in continuou	ısly transmitti	ng mode (no	n-
dna	b	hopping) with 8	BDPSK modulati	on. "oʻt ^{ok}	AUDO	- 80	101	000



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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

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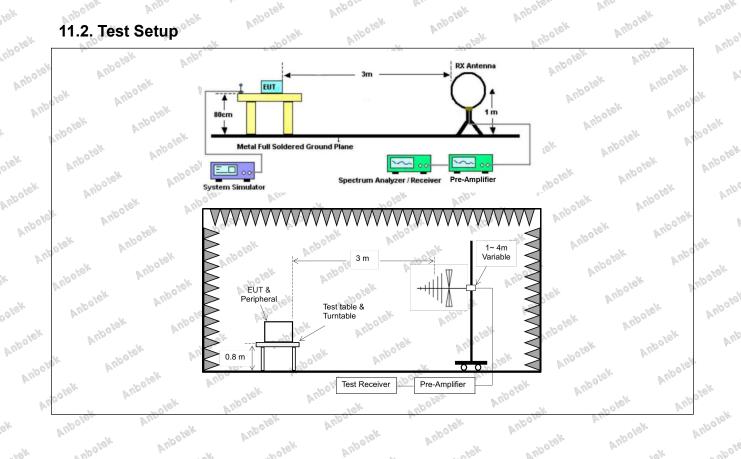
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11.2. Test Setup



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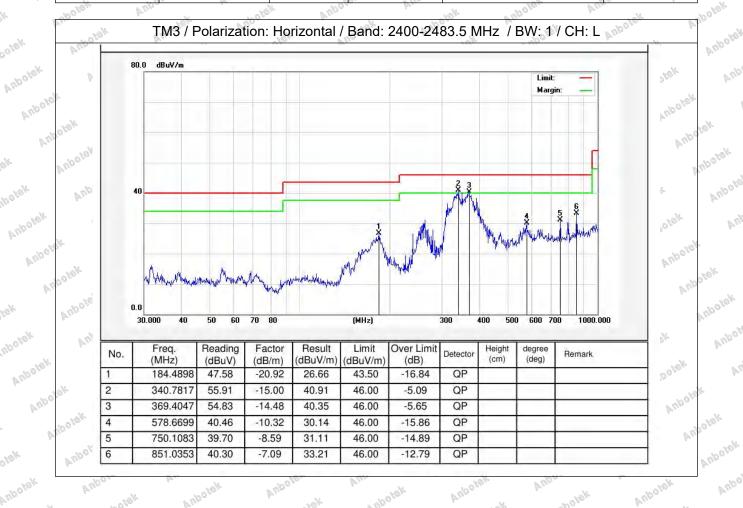
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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

11.3. Test Data

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

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



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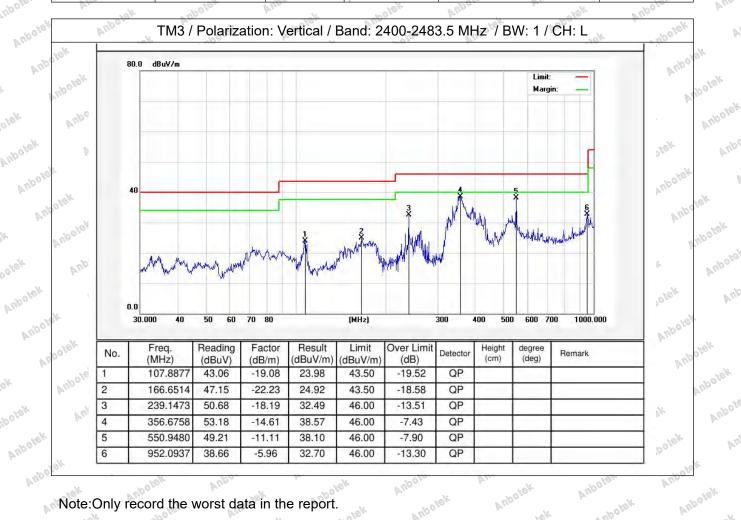
Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

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Temperature:	20.3 °C	Humid	ity: 46 %	Atmosp	heric Pressure:	101 kPa	

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Note:Only record the worst data in the report.

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Report No.:182512C400544101 FCC ID: 2BCAX-HY320M

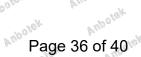
12. Emissions in frequency bands (above 1GHz)

7. 2016 k	in § 15.209(a)(see § 15.20 Frequency (MHz)	Field strength	Measuremen
Nupolek Vupolek	Anbolek Anbos	(microvolts/meter)	distance (meters)
Wupos. B.	0.009-0.490	2400/F(kHz)	300
abolek Anber	0.490-1.705	24000/F(kHz)	30
VII.	1.705-30.0	30k	30 _{abo}
V Wilpon W.	30-88	100 **	3
rolok	88-216	150 **	3
Often Alle	216-960	200 **	3
tok anbolis.	Above 960	500	3 100
	F67.		
Test Limit:		aragraph (g), fundamental emis	
Test Limit:	intentional radiators opera	ting under this section shall not	be located in th
Test Limit:	intentional radiators opera frequency bands 54-72 Mi	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz o	be located in the 470-806 MHz.
Test Limit:	intentional radiators opera frequency bands 54-72 MI However, operation within	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz o these frequency bands is perm	be located in the 470-806 MHz.
Test Limit:	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g.,	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz o these frequency bands is perm §§ 15.231 and 15.241.	be located in th r 470-806 MHz. itted under othe
Test Limit:	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz o these frequency bands is perm §§ 15.231 and 15.241. e, the tighter limit applies at the	be located in the r 470-806 MHz. itted under othe band edges.
Test Limit: Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz o these frequency bands is perm §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based o	be located in the r 470-806 MHz. itted under othe band edges. n measurement
Test Limit: Anbolek Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi-	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is perm §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of peak detector except for the free	be located in the r 470-806 MHz. itted under othe band edges. In measurement equency bands 9
Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ting under this section shall not 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 peak detector except for the free above 1000 MHz. Radiated em	be located in the r 470-806 MHz. itted under other band edges. In measurement equency bands 9 hission limits in
Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ting under this section shall not Hz, 76-88 MHz, 174-216 MHz of these frequency bands is perm §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based of peak detector except for the free	be located in the r 470-806 MHz. itted under other band edges. In measurement equency bands 9 hission limits in
Test Limit:	intentional radiators opera frequency bands 54-72 MI However, operation within sections of this part, e.g., In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and these three bands are bas	ting under this section shall not 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 peak detector except for the free above 1000 MHz. Radiated emed on measurements employing 16.6.4	be located in the r 470-806 MHz. itted under other band edges. In measurement equency bands 9 hission limits in

12.1. EUT Operation

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	Operating Envir	onment:	orole	VUpores	Vun.	anbotok.	Vupo.	fire.
. Ac.	W. Park				e EUT in cont	inuously transm	itting mode (n	on-
uporc	Test mode:	hopping) with 2: TX-π/4-D0			eep the EUT i	n continuously t	ransmitting mo	ode
Vupope.	restinode.			DQPSK modu		ntinuously transi	mitting mode (non-
dry	Vol. William	hoppina) wit				illiuousiy ilalisi	intillig friode (11011-





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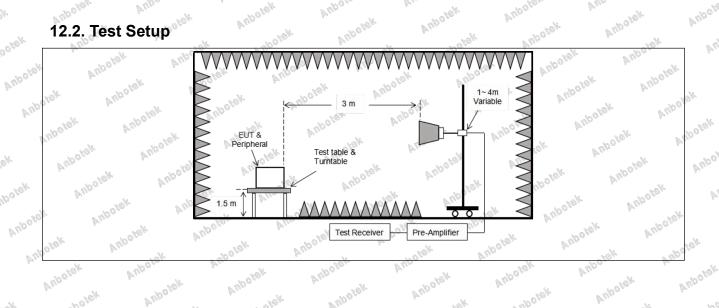
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12.3. Test Data

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12.3. Test Da	tano io k	opolek W.	Vupoje _k b	upo _{ter}	Vugala _k	Aupolek.
Temperature:	20.3 °C	Humidity:	46 %	Atmosphe	ric Pressure:	101 kPa

Vupole.	Dr.	2001010	And	hotok.	64000	alok.	A riboto.
Anbol				ГМ3 / CH: L			
No.	Peak value:						
iek A	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
nbolek	4804.00	30.75	15.27	46.02	74.00	-27.98	Vertical
eak.	7206.00	31.30	18.09	49.39	74.00	-24.61	Vertical
Anbotok	9608.00	33.35	23.76	57.11	74.00	-16.89	Vertical
Anbo	12010.00	* 100101	W. Woo	No.	74.00	William	Vertical Vertical
	14412.00	*	olok Wupo	Eg. Wille	74.00	Olok Villa	Vertical
A. A.	4804.00	30.82	15.27	46.09	74.00	-27.91	Horizontal
Jek.	7206.00	32.80	18.09	50.89	74.00	-23.11	Horizontal
Anbolok	9608.00	29.77	23.76	53.53	74.00	-20.47	Horizontal
Vipole j	12010.00	Wur. *	adbotel.	Anbo	74.00	Vigoles	Horizontal
Wille	14412.00	140pg		Wilpatak	74.00	k alpolok	Horizontal
Anb.	Average value:						
otek	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
Anbolok	4804.00	20.13	15.27	35.40	54.00	-18.60	Vertical
AUG	7206.00	20.33	18.09	38.42	54.00	-15.58	Vertical
Anbore	9608.00	22.37	23.76	46.13	54.00	-7.87	Vertical
A TI	12010.00	* * *	all Aupo,	- N	54.00 no	Wille	Vertical
³ /k	14412.00	*	Note Sup	Ofer Vur	54.00	Ipoloje Vug	Vertical
	4804.00	19.17	15.27	34.44	54.00	-19.56	Horizontal
00 kg k	7206.00	21.86	18.09	39.95	54.00	-14.05	Horizontal
Anbolok	9608.00	19.08	23.76	42.84	54.00	-11.16	Horizontal
V11.	12010.00	W.A.	, hotole	Vupo	54.00	Vupo _{les} ,	Horizontal
Wilpop	14412.00	*Anbore	b	Ar Anbolo	54.00	do d	Horizontal

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YUpo. NY.	olek Vupo	POLES. VIL	· ·	-oieli A	upotek Vu	otor Ac
			TM3 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	30.77	15.42	46.19	74.00	-27.81 ····	Vertical
7323.00	31.15 And 1	18.02	49.17	74.00	-24.83	Vertical
9764.00	32.36	23.80	56.16	74.00	-17.84	Vertical
12205.00	Vup. *	dolok.	Aupor	74.00	Vupoles.	Vertical
14646.00	Aribo*	W. C. C.	Wing Office.	74.00	* Up 0 16 %	Vertical
4882.00	30.52	15.42	45.94	74.00	-28.06	Horizontal
7323.00	32.79	18.02	50.81	74.00	-23.19	Horizontal
9764.00	29.47	23.80	53.27	74.00	-20.73	Horizontal
12205.00	Upolon * Vup		obolek Ar	74.00	-010h	Horizontal
14646.00	"polol*	Pupor	- 010h	74.00	VUn.	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	19.86	15.42	35.28 ,,,,,,	54.00	-18.72	Vertical
7323.00	20.43	18.02 M	38.45	54.00	-15.55	Vertical
9764.00	22.23	23.80	46.03	54.00	-7.97	Vertical
12205.00	Will Ole *	Plan	a ribotole	54.00	at other	Vertical
14646.00	100 \$ 10 P	W.Lpara	Polisk.	54.00	VI.	Vertical
4882.00	19.08	15.42	34.50	54.00	-19.50	Horizontal
7323.00	21.42	18.02	39.44	54.00	-14.56 hours	Horizontal
9764.00	19.59	23.80	ole 43.39 Note	54.00	-10.61 ₍₁₎	Horizontal
12205.00	2016k *	Polo. Vu.	-10k	54.00	100	Horizontal
14646.00	*	abotele.	William	54.00	Wilhorn	Horizontal

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			ГМ3 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	31.04	15.58	46.62	74.00	-27.38 ov	Vertical
7440.00	31.16	17.93	49.09	010 N 74.00 N 700	-24.91	Vertical 📈
9920.00	32.91	23.83	56.74	74.00	-17.26	Vertical
12400.00	MOOL *	Vie _f	Anto o long	74.00	abolok	Vertical
14880.00	8 UP 0 *8 F	Vilpar.	abotek	74.00		Vertical
4960.00	30.59	15.58	46.17	74.00	-27.83	Horizontal
7440.00	32.82	17.93	50.75	74.00	-23.25	Horizontal
9920.00	30.15	23.83	53.98	74.00	-20.02 NO	Horizontal
12400.00	olok * Milo	2/2	18/2	74.00	- AV	Horizontal
14880.00	*	VUpoles.	Up.	74.00	Vupo, p	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	20.98	15.58	36.56	54.00 noon	-17.44	Vertical
7440.00	21.44	17.93 And	39.37	54.00	-14.63 Anb	Vertical
9920.00	22.78	23.83	46.61	54.00	7.39	Vertical
12400.00	* Spore	Pupo	2010k	54.00	Vin	Vertical
14880.00	* tek	Antores.	Wun.	54.00	Villa	Vertical
4960.00	20.52	15.58	36.10	54.00	-17.90	Horizontal
7440.00	22.79	17.93	40.72	54.00	-13.28	Horizontal
9920.00	19.49	23.83	43.32	54.00 m	-10.68	Horizontal
12400.00	*	polek Ant	0. 2.	54.00	Poles, Vu.	Horizontal
14880.00	"Upor *	- dek	Vupora.	54.00	* apolek	Horizontal

Remark:

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- 1. Result =Reading + Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- 3. Only the worst case is recorded in the report.





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APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

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Please refer to separated files Appendix III -- Internal Photograph



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