

Address

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FCC Test Report

GUANGGAN TECHNOLOGY (SHENZHEN) Applicant

CO.,LTD

2307, Changhong Science and Technology

Building.South 12 Road, Southern District in

High-tech Zone, Nanshan District, Shenzhen,

Guangdong,518063 China

Product Name Multimedia Projector

Jan. 10, 2024 **Report Date**

Shenzhen Anbotek Cork



Laboratory Limited



Code:AB-RF-05-b Hotline 400-003-0500 www.anbotek.com.cn





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TEST REPORT

Applicant : GUANGGAN TECHNOLOGY (SHENZHEN) CO.,LTD

Manufacturer : GUANGGAN TECHNOLOGY (SHENZHEN) CO.,LTD

Product Name : Multimedia Projector

Test Model No. : RD-809

OSPJ-M1, OSPJ-M2, OSPJ-M3, OSPJ-M4, OSPJ-M5, OSPJ-M6, OSPJ-M7,

Reference Model No. : OSPJ-M8, OSPJ-M9, OSPJ-M10, OSPJ-M11, OSPJ-M12, OSPJ-M13, OSPJ-M14, OSPJ-M15, OSPJ-M16, OSPJ-M17, OSPJ-M18, OSPJ-M19,

OSPJ-M14, OSPJ-M15, OSPJ-M10, OSPJ-M17, OSPJ OSPJ-M20

Trade Mark : N/A

Rating(s) : Input: AC 100-240V, 50/60Hz 140W

Test Standard(s) : FCC Part15 Subpart E, Paragraph 15.407

Test Method(s) : FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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 the FCC Part 15 Subpart E 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 Nov. 21, 2023

Date of Test Nov. 21~Dec. 26, 2023

Prepared By ______(Ella Liang)

Indward pan

(Edward Pan)

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Ella

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Lang



Approved & Authorized Signer



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Revision History

Report Version			Description			Issued Date	
VU	R00	Anbot	ek Pupo,	Original Issue.	abote. An	botek	Jan. 10, 2024
ek	Anbotek	An	potek Anbotel	K Anbotek	Anbors	Anbotek	Anboren Anb
potek	Anbotel	-V-	Pupe, Votek Vup.	otek Anbore	Andotek	Anbor	ek Anberratek





1. General Information

1.1. Client Information

Applicant	: GUANGGAN TECHNOLOGY (SHENZHEN) CO.,LTD	bote
Address	2307, Changhong Science and Technology Building.South 12 Road,Southe District in High-tech Zone,Nanshan District,Shenzhen,Guangdong,518063 China	rn _{Anb}
Manufacturer	: GUANGGAN TECHNOLOGY (SHENZHEN) CO.,LTD	No.
Address	2307, Changhong Science and Technology Building.South 12 Road,Southe District in High-tech Zone,Nanshan District,Shenzhen,Guangdong,518063 China	rn potel
Factory	: Guangzhou Rigal Electronics Co., Ltd.	br.
Address	: No.3-1, Ruixiang Road,Huadu District,Guangzhou,China	

1.2. Description of Device (EUT)

:	Multimedia Projector			
:	RD-809			
:	OSPJ-M1, OSPJ-M2, OSPJ-M3, OSPJ-M4, OSPJ-M5, OSPJ-M6, OSPJ-M7, OSPJ-M8, OSPJ-M9, OSPJ-M10, OSPJ-M11, OSPJ-M12, OSPJ-M13, OSPJ-M14, OSPJ-M15, OSPJ-M16, OSPJ-M17, OSPJ-M18, OSPJ-M19, OSPJ-M20 (Note: All samples are the same except the model number and appearance color, so we prepare "RD-809" for test only.)			
:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek			
:	AC 120V, 60Hz			
:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)			
	N/A Anborek Anborek Anborek Anborek Anborek			
RF Specification				
:	⋈ a ⋈ n(HT20) ⋈ n(HT40) ⋈ ac(VHT20) ⋈ ac(VHT40) ⋈ ac(VHT80) ⋈ ac(VHT160) ⋈ ax(HEW20) ⋈ ax(HEW40) ⋈ ax(HEW80) ⋈ ax(HEW160)			
:	☐ Outdoor AP ☐ Indoor AP ☐ Point-to-point AP ☐ Client			
:	☐ With TPC ☑ Without TPC			
:	⊠ Slave without radar detection ☐ Slave with radar detection			
	: : : : : : : : : : : : : : : : : : : :			

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		□ Master
Operation Frequency	:	⊠ Wi-Fi 5.3G: 5250~5350MHz
Number of Channel	:	Wi-Fi 5.3G: 4 Channels for 20MHz bandwidth (5260-5320MHz) 2 Channels for 40MHz bandwidth (5270-5310MHz) 1 Channels for 80MHz bandwidth (5290MHz) Wi-Fi 5.6G: 11 Channels for 20MHz bandwidth (5500-5700MHz) 5 Channels for 40MHz bandwidth (5510-5670MHz) 2 Channels for 80MHz bandwidth (5530~5610MHz)
Modulation Type	:	 ⊠ 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) ⊠ 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) ⊠ 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) □ 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	:	FPC antenna
Antenna Gain(Peak)	:	Wi-Fi 5.3G: 1.59dBi
-/- NO.		specification are provided by customer. 2) For a more detailed features o the manufacturer's specifications or the User's Manual.





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1.3. Auxiliary Equipment Used During Test

Description	Rating(s)					
Master device	Manufacturer: Micronet Union Technology(Chengdu) Co., Ltd					
Ambore Ame	Equipment: AC1200 Gigabit Dual Band Wi-Fi Router					
otek anbore	Model: T18-21A					
Anbe	FCC ID: 2A22E-WWYLT18					

1.4. Description of Test Facility

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

FCC-Registration No.: 434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.5. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes o 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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1.6. Channel List

Frequency Band	y Band Mode Test channel		Frequency (MHz)
abotek Anbo	k work Anbors Am	CH 52	5260
Ar. Lotek Ar	OFDM	CH 56	5280
And	802.11a/n(HT20)/ac(VHT20)/ ax(HEW20)	CH 60	5300
5.3GHz	Anbotek Anbo 2k Anbotek	CH 64	5320
potek Anbo	OFDM	CH 54	5270
Anbotek Anbo	802.11n(HT40)/ac(VHT40)/ ax(HEW40)	CH 62	5310

1.7. Antenna Specification:

Ant.		Antenna Type	Connector	Gain (dBi)	
	k Aupon	FPC AMB	N/A MODO	1.59	





1.8. Table for Antenna Configuration:

Operating Mode TX	1TX			
Mode				
802.11a	botek Anbo V hatek Anbore			
802.11n(HT20)	All sek aboteV And			
802.11ac(VHT20)	k Mupor Mr. Ask upoter Mupo			
802.11n(HT40)	ok notek Anti-V his tek out			
802.11ac(VHT40)	ofe And Votek Ande			
802.11ax(HEW20)	Potek Pupor, A. Poter			
802.11ax(HEW40)	And Ak hotek Vanbo, A. stek			

1.9. Maximum Output Power And E.I.R.P.

Test Mode	Frequency Band	Max Average Output	Gain (dBi)	Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)
	(MHz)	Power (dBm)			
802.11a	5250~5350	14.04	1.59	15.63	36.56
802.11n(HT20)	5250~5350	13.96	1.59	15.55	35.89
802.11ac(VHT20)	5250~5350	13.81	1.59	15.40	34.67
802.11n(HT40)	5250~5350	13.10	1.59	14.69	29.44
802.11ac(VHT40)	5250~5350	13.60	1.59	15.19	33.04
802.11ax(HEW20)	5250~5350	15.03	1.59	16.62	45.92
802.11ax(HEW40)	5250~5350	14.38	1.59	15.97	39.54





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1.10. Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

0,1	Applicable	EIRP	FCC 15.407 (h)(1)
77	botek botek	>500mW	The TPC mechanism is required for system with an EIRP of above 500mW
	Wipotes Wipotes	<500mW	The TPC mechanism is not required for system with an EIRP of less 500mW

The UUT can adjust a transmitter's output power based on the signal level present at the receiver.TPC is auto controlled by software.





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2. U-NII DFS Rule Requirements

2.1. Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Applicability of DFS Requirements Prior to Use a Channel

	Operational Mode				
Requirement	N4 4	Client without radar	Client with radar		
	Master	detection	detection		
Non-Occupancy Period	okek A Mupo	Not required	And Viek		
DFS Detection Threshold	hotek V Ant	Not required	oter My		
Channel Availability Check Time	V	Not required	Not required		
U-NII Detection Bandwidth	And V	Not required	Mr. Jupotek		

Applicability of DFS Requirements during Normal Operation

15/4	93.	-V. WO'		
Operational Mode				
Master	Client without radar detection	Client with radar detection		
Anboten A	Not required	Wpo, A wek		
Anbolek	Anborek Anborek	Anborek V Anborek		
PV	abotek / Anbo	Lotel Anbore		
Anbo.	Not required	An Vek ago		
	Master V	Master Client without radar detection √ Not required √ √ √		

Master Device or Client	Client Without Radar	
with Radar Detection	Detection	
All BW modes must be tested	Not required	
Anboren And	otek Anbor K Ar Sotek	
Test using widest BW mode	Test using the widest BW	
available	mode available for the link	
Any single BW mode	Not required	
	with Radar Detection All BW modes must be tested Test using widest BW mode available	

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

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2.2. Test Limits and Radar Signal Parameters

Detection Threshold Values:

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

M : T "P	Value		
Maximum Transmit Power	(See Notes 1, 2, and 3)		
EIRP ≥ 200 milliwatt	-64 dBm		
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm		
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm		

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Test Limit:

DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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Parameters of DFS Test Signals And Minimum Percentage of Successful Detections:

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
		5557	Nulliber of Pulses		
Type	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
14.00				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique	[(1)]	60%	30
		PRI values	$\left(\frac{360}{360}\right)$.		
		randomly selected	Roundup (300)		
		from the list of 23	(19·10 ⁶)		
		PRI values in Table			
		5a	$\left(\left(\begin{array}{c} PRI_{\mu sec} \end{array}\right)\right)$		
		Test B: 15 unique	2000		
		PRI values			
		randomly selected			
		within the range of			
		518-3066 μsec,			
		with a minimum			
		increment of 1			
		usec, excluding			
		PRI values selected			
		in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-	4)		80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of

pulses would be Roundup
$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18$$







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Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)	
1	1930.5	518	
2	1858.7	538	
3	1792.1	558	
4	1730.1	578	
5	1672.2	598	
6	1618.1	618	
7	1567.4	638	
8	1519.8	658	
9	1474.9	678	
10	1432.7	698	
11	1392.8	718	
12	1355	738	
13	1319.3	758	
14	1285.3	778	
15	1253.1	798	
16	1222.5	818	
17	1193.3	838	
18	1165.6	858	
19	1139	878	
20	1113.6	898	
21	1089.3	918	
22	1066.1	938	
23	326.2	3066	

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4.

Long Pulse Radar Test Waveform

0,0	Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
4	5 Anbotek	5-100	5-20	1000-2000	1-3	8-20	80%	30

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Frequency Hopping Radar Test Waveform

20 T	Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
77	potek 6 Anh	otek 1 Anb	333	nborek 9 M	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are µsed for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: If a segment does not contain at least 1 frequency within the U-NII Detection Bandwidth of the UUT, then that segment is not µsed.

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.





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3. Test Equipment List

6.7	710	10.4	~10~	P. A.	211	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. _{Ar}	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
2.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
3	RF Control Unit	Tonscend	JS0806-2	21G8060455	Oct. 12, 2023	1 Year
4.0	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year





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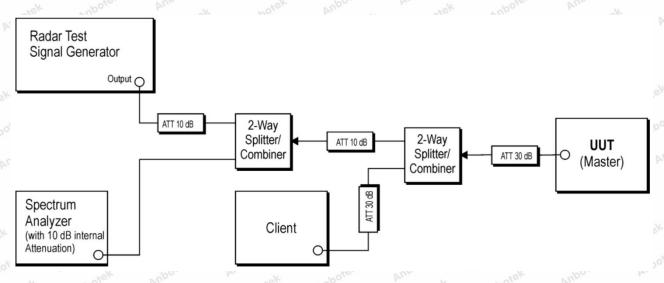
4. Dynamic Frequency Selection (DFS)

4.1. DFS Measurement System

Test Procedure:

- 1. Master device and client device are set up by conduction method as the following configuration.
- The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "iPerf.exe' to reach 17% channel loading as below.
- 5. The time for the EUT to fully restart up is 65s.
- 6. The time for the master device to fully restart up is 65s.

Setup for Master with injection at the Master



Radar Test Waveforms are injected into the Master.





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4.2. Calibration of DFS Detection Threshold Level

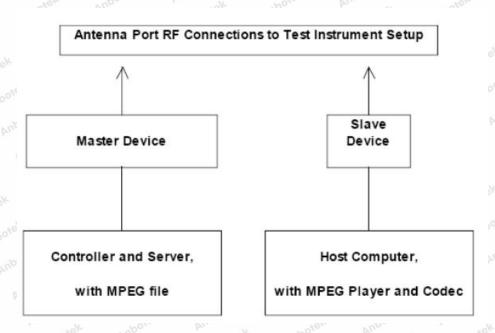
A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak

level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar



4.3. Deviation from Test Standard

No deviation.





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5. Test Results

5.1. Summary of Test Results

Standard	Test Type	Remarks	Result
FCC 15.407	Channel Move Time	Applicable	PASS
FCC 15.407	Channel Closing Transmission Time	Applicable	PASS
FCC 15.407	Channel Loading	Applicable	PASS





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5.2. DFS Detection Threshold

Calibration:

DFS Threshold I	Level Anbotek Anbotek
DFS Threshold Level (1.59dBi antenna):-59.41dBn	✓At the antenna connector
Di o Tilicanola Ecver (1.03abi antenna)33.4 fabil	□In front of the antenna

Note: For SISO mode, the maximum EIRP is less than 200 milliwatt, the antenna gain is 1.59dBi. According to clause 2.2 of this report. The detection threshold level is -59.41dBm.

Please refer to Appendix A of the Appendix Test Data.

5.3. Channel Move Time And Channel Closing Transmission Time

Please refer to Appendix C of the Appendix Test Data.

5.4. Channel Loading

Please refer to Appendix B of the Appendix Test Data.





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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_DFS

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

End of Report

