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FCC Test Report

IAG Group Ltd. **Client Name**

Level 1 Electronics Building, Sanecore

Industrial Park, Jiuwei, Hangcheng, Bao An **Client Address**

District, Shenzhen, Guangdong, China

Product Name Network Player

Dec. 30, 2022 **Report Date**

Shenzhen Anbotek Communice Laboratory Limited



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





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TEST REPORT

Applicant IAG Group Ltd.

Manufacturer IAG Group Ltd.

Product Name Network Player

Model No. 7000N Play

Trade Mark

Input: AC 100-120V, 50/60Hz, 22W Rating(s)

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	Dec. 14, 2022
Date of Test	Dec. 14 ~ 22, 2022
portek Anbotek Anbotek Anbotek	Nian xiu Chen
Prepared By	All of notes and
	(Nianxiu Chen)
	ek Anbote Anbot
	Lingkongjin
Approved & Authorized Signer	port Ar John Manborer Anbo
or Anbore An	(Kingkong Jin)



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Revision History

Re	Report Version Description		Issued Date	
. Vu	R00	Anbot	Original Issue.	Dec. 30, 2022
lek-	Anbotek	An	otek Anbotek Anbotek Anbotek Anbotek	Anboren Anbo
potek	Anborek		inpopek Aupotek Aupotek Aupotek Aupotek	Anburgh Motek

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1. General Information

1.1. Client Information

Applicant	: IAG Group Ltd.
Address	Level 1 Electronics Building, Sanecore Industrial Park, Jiuwei, Hangcheng, Bao An District, Shenzhen, Guangdong, China
Manufacturer	: IAG Group Ltd.
Address	Level 1 Electronics Building, Sanecore Industrial Park, Jiuwei, Hangcheng, Bao An District, Shenzhen, Guangdong, China
Factory	: Sanecore Audio (Ji'an) Co., Ltd
Address	: Fenghuang Industrial Park, Ji'an County, Ji'an City, Jiangxi, China

1.2. Description of Device (EUT)

	pro-	The state of the s
Product Name	:	Network Player
Model No.	:	7000N Play
Trade Mark	:	N.A., nbotek 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 Anbot Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Mode	:	⋈ a ⋈ n(HT20) ⋈ n(HT40) ⋈ ac(VHT20) ⋈ ac(VHT40) ⋈ ac(VHT80) □ ac(VHT160) □ ax(HEW20) □ ax(HEW40) □ ax(HEW80) □ ax(HEW160)
Device Type	:	☐ Outdoor AP ☐ Point-to-point AP ☐ Client
TPC Function	:	⊠ With TPC □ Without TPC
DFS Type	:	
Operation Frequency	:	⊠ Wi-Fi 5.3G: 5250~5350MHz
Number of Channel	:	Wi-Fi 5.3G:

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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	:	Rod Antenna
Antenna Gain(Peak)	:	3.71 dBi (Provided by customer)
Directional Antenna Gain(Peak)	:	Wi-Fi 5.2G/5.3G: 6.72dBi

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

Descriptio	n	Ratin	g(s)					
- rek	Anbotek	PUPP	Yar	botek	Anboro	All	Anbotek	Alubo mak

1.4. Description of Test Facility

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

FCC-Registration No.: 184111

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. 184111.

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'an District, Shenzhen, Guangdong, China.518102







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1.5. Channel List

Frequency Band	Mode	Test channel	Frequency (MHz)
Anbo, A.	otek Anbote, And	CH 52	5260
Anbotek Ar	OFDM	CH 56	5280
ek anbotek	802.11a/n(HT20)/ac(HT20)	CH 60	5300
5.3GHz	Anbore Ant hotek Anborek	CH 64	5320
nbor 6.6 Gr. botek	OFDM	CH 54	5270
Anbore An	802.11n(HT40)/ac(HT40)	CH 62	5310
Anbore And	OFDM 802.11ac(HT80)	CH 58	5290

1.6. Antenna Specification:

	Ant.	Antenna Type	Connector	Gain (dBi)
100.	1 hotek	Rod Antenna	N/A	3.71
Aupore	2	Rod Antenna	N/A	3.71

Note: 1) This EUT supports CDD, and all antennas have the same gain, Directional gain = GANT+Array Gain.

For power measurements, Array Gain=0dB (NANT≤4), so the Directional gain=3.71.

For power spectral density measurements, NANT=2, NSS = 1.

So the Directional gain=GANT+Array Gain=GANT+10log(NANT/ NSS)dBi=3.36+10log(2/1)dBi=6.72

- 2) Beamforming gain: 3dB. Directional gain = 3.71+3=6.71 dB.
- 3) The antenna gain and beamforming gain are provided by the manufacturer

1.7. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode	2TX
TX Mode	217
802.11a	V (Ant. 1/Ant. 2)
802.11n(HT20)	V (Ant. 1 + Ant. 2)
802.11ac(HT20)	V (Ant. 1 + Ant. 2)
802.11n(HT40)	V (Ant. 1 + Ant. 2)
802.11ac(HT40)	V (Ant. 1 + Ant. 2)
802.11ac(HT80)	V (Ant. 1 + Ant. 2)

For Beamforming:

Operating Mode	2TX
TX Mode	ZIX
802.11a	V (Ant. 1/Ant. 2)
802.11n(HT20)	V (Ant. 1 + Ant. 2)
802.11ac(HT20)	V (Ant. 1 + Ant. 2)
802.11n(HT40)	V (Ant. 1 + Ant. 2)
802.11ac(HT40)	V (Ant. 1 + Ant. 2)
802.11ac(HT80)	V (Ant. 1 + Ant. 2)

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

Mode: TX (802.11a 20MHz)								
Frequency Band	Max Average	Gain	Max. e.i.r.p.	Max. e.i.r.p.				
(MHz)	Output	(dBi)	(dBm)	(mW)				
	Power (dBm)							
5250~5350	16.76	3.71	20.47	111.429				

	1461 - AV	7 - AV 10 10 10 10 10 10 10 10 10 10 10 10 10							
77	Mode: TX (802.11n(HT20))								
	Frequency Band	Max Average	Directional Gain	Max. e.i.r.p.	Max. e.i.r.p.				
	(MHz) Output		(dBi)	(dBm)	(mW)				
		Power (dBm)							
	5250~5350	16.93	6.72	23.65	231.739				

		- /43/	M 10111 10	100	- 07		
.\	Mode: TX (802.11ac(HT20))						
	Frequency Band	Max Average	Directional Gain	Max. e.i.r.p.	Max. e.i.r.p.		
(MHz) Output		(dBi)	(dBm)	(mW)			
	Power (dBm) 5250~5350 17.02						
			6.72	23.74	236.592		

Mode: TX (802.11n(HT40))					
Frequency Band	Max Average	Max. e.i.r.p.	Max. e.i.r.p.		
(MHz) Output		(dBi)	(dBm)	(mW)	
	Power (dBm)				
5250~5350	17.09	6.72	23.81	240.436	

3/	Mode: TX (802.11ac(HT40))						
00	Frequency Band (MHz)	Max Average Output	Directional Gain (dBi)	Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)		
70	(1411.12)	Power (dBm)	(451)	(dBiii)	(,		
	5250~5350	16.99	6.72	23.71	234.963		

¥.	Mode: TX (802.11ac(HT80))						
	Frequency Band	Max Average	Directional Gain	Max. e.i.r.p.	Max. e.i.r.p.		
O	(MHz) Output		(dBi)	(dBm)	(mW)		
7,2		Power (dBm)					
	5250~5350	15.78	6.72	22.50	117.828		

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1.9. 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.

31	Applicable	EIRP	FCC 15.407 (h)(1)
5	ootek Obotek	>500mW	The TPC mechanism is required for system with an EIRP of above 500mW
	Anborel Anborel	<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 Mod	le		
Requirement	Mantan	Client without radar	Client with radar		
	Master	detection	detection		
Non-Occupancy Period	Jek A Vupo.	Not required	An Veck		
DFS Detection Threshold	hotek V Anb	Not required	oder My		
Channel Availability Check Time	V	Not required	Not required		
U-NII Detection Bandwidth	Anb Vak	Not required	Arthur V Anborett		

Applicability of DFS Requirements during Normal Operation

	Operational Mode				
Requirement	Master	Client without radar detection	Client with radar detection		
DFS Detection Threshold	Nupote 1	Not required	inpo, A stek		
Channel Closing Transmission Time	Anb otek	Anborek V Anborek	Anborek V Anborek		
Channel Move Time	V	anbotek V Anbo	hoteV Anbore		
U-NII Detection Bandwidth	Vanbou	Not required	V		

Additional requirements for devices	Master Device or Client	Client Without Radar	
with multiple bandwidth modes	with Radar Detection	Detection	
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required	
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link	
All other tests	Any single BW mode	Not required	

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 (See Notes 1, 2, and 3)		
Maximum Transmit Power			
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
Type	(µsec)	(μsec)	Number of Fulses	Percentage of	Number of
Type	(μεςς)	(μισος)		Successful	Trials
				Detection	THUIS
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \frac{1}{360} \right\}. $ $\left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right\} $	60%	30
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.



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Long Pulse Radar Test Waveform

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

Frequency Hopping Radar Test Waveform

10	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
	inbotek 6	anbot**	333	Anbores 9	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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Jupo,	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 13, 2022	1 Year
2.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 13, 2022	1 Year
3.	RF Control Unit	Tonscend	JS0806-2	21G8060455	Oct. 13, 2022	1 Year
Ambotek 4.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 13, 2022	1 Year





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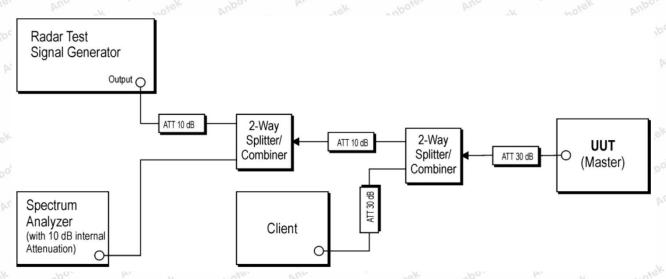
4. Dynamic Frequency Selection (DFS)

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 device to fully start 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

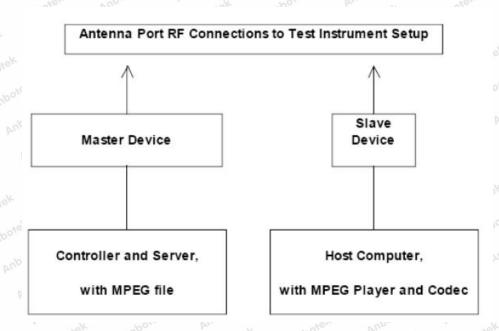
A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

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 type.



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	

5.2. DFS Detection Threshold

Calibration:

Josek Aupor	tek ab	otek Anbote	OFS Threshold	Level Market	K Aupor	SK 200	otek
DES Throsho	ld Loyal (3.71	dBi antenna):	62.04dRm	≎At the a	ntenna conne	ctor	nbotek
Di 3 Tillesilo	id Level (3.7 i	ubi ailleilla).	-02.94dDIII	⊠In front	of the antenna	a botek	Anbotek
Anbore	Anbotek	Anborek	Anbotek	Anborek	Auportek	Aupotek	Anbore

Note: For SISO mode, the maximum EIRP is less than 200 milliwatt, the antenna gain is 3.71dBi. For MIMO mode, the maximum EIRP is more than 200 milliwatt, the directional gain is 6.72dBi, According to clause 2.2 of this report. The detection threshold level is -62.94dBm.

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 -----

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