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FCC Test Report

Applicant : D2G Group LLC

Address 81 Commerce Drive, Fall River, Massachusetts, 02720, United States

Product Name : 55inch Edgelit Touch Floor Stand

Report Date

Mar. 22, 2024



Shenzhen Anbote

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com

Code:AB-RF-05-b





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TEST REPORT

Applicant :	D2G Group LLC
Manufacturer :	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Product Name :	55inch Edgelit Touch Floor Stand
Test Model No. :	DF055TLWE2
Reference Model No. :	N/A http://www.aki.com/aki
Trade Mark :	Displays2go
	Rated Voltage: AC 100-240V
Deting(a) atek	Rated Current: 1.3-2.8A
Rating(s) :	Rated Frequency: 50/60Hz
	Max Power Consumption: 250W

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 Date of Test

Prepared By

Jan. 17, 2024 Jan. 17 ~ Mar. 22, 2024

Nian Xiu Chen

(Nianxiu Chen)

Idward pan

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

Approved & Authorized Signer

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Revision History

Report Version	Description	Issued Date		
R00	Original Issue.	Mar. 22, 2024		
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1. General Information

1.1. Client Information

201	101	
Applicant	: D2G Grou	ip LLC model And Andrea Andrea Andrea Andrea
Address	: 81 Comm	erce Drive, Fall River, Massachusetts, 02720, United States
Manufacturer	: Shenzhen	n I-Pivot Intelligent Technology Co., Ltd
Address		, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, J District, Shenzhen, Guangdong, China
Factory	: Shenzhen	n I-Pivot Intelligent Technology Co., Ltd
Address	•	, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, J District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

al bu.	and the second				
Product Name	:	: 55inch Edgelit Touch Floor Stand			
Test Model No.	:	DF055TLWE2			
Reference Model No.	:	N/Anbotet And botek Anbotek Anbotek Anbotek Anbotek			
Trade Mark	:	Displays2go			
Test Power Supply	:	AC 120V, 60Hz			
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)			
Adapter	:	N/A and Anborek Anborek Anborek Anborek			
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 Indoor AP Point-to-point AP Client			
TPC Function	:	□ With TPC ⊠ Without TPC			
DFS Type	:	☑ Slave without radar detection □ Slave with radar detection □ Master			
Operation Frequency	:	⊠ Wi-Fi 5.3G: 5250~5350MHz ⊠ Wi-Fi 5.6G: 5470~5725MHz			
Number of Channel	:	Wi-Fi 5.3G: ⊠ 4 Channels for 20MHz bandwidth (5260-5320MHz) ⊠ 2 Channels for 40MHz bandwidth (5270-5310MHz)			

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		 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	:	Rod Antenna
Antenna Gain(Peak)	:	Wi-Fi 5.3G: 5.17dBi Wi-Fi 5.6G: 5.21dBi
Remark: 1) All of the F	RF s	pecification are provided by customer. 2) For a more detailed features

description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
ROG Rapture	Manufacturer: ASUSTeK Computer Inc
Quad-band Gaming	Model: GT-AXE16000
Router	FCC-ID: MSQ-RTAX5D00
abotek Anboir	IC: 3568A-RTAX5D00

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.

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1.5. 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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1.6. Channel List

Frequency Band	Mode	Test channel	Frequency (MHz)
Anboten Anbo	notek Anbotek Anbor All	CH 52	5260
Anbotek Ar	OFDM for 802.11a/n(HT20) /ac(VHT20)	CH 56	5280
	OFDMA for 802.11ax(HEW20)	CH 60	5300
5.3GHz	And botek Anbotek Andor	CH 64	5320
Anbotek Anbotek	OFDM for 802.11n(HT40)/ac(HT40)	CH 54	5270
Anbotek Anbot	OFDMA for 802.11ax(HEW40)	CH 62	5310
Anbotek An	Anbotek Anbotek Anbotek Anb	CH 100	5500
Anbotek	Anbotek Anbotek Anbotek Anbotek	CH 104	5200
otek Anboten	Anbotek Anbotek Anbotek	CH 108	5540
Anbotek Anbotek	Anti- hotek Anbotek Anbo	CH 112	5560
Anbotek Anbot	Ant botek Anbotek Anbo	CH 116	5580
Anbotek Ant	OFDM for 802.11a/n(HT20) /ac(VHT20) OFDMA for 802.11ax(HEW20)	CH 120	5600
K Anbotek	Anbo, A. stek abote An	CH 124	5620
5.6GHz	Anbotek Anbotek Anbotek A	CH 128	5640
5.0GHZ	Anborek Anbotek Anbote	CH 132	5660
Anbotek Anbote	k Anbotek Anbotek Anbotek	CH 136	5680
nbote. Anu	oten Anbotek Anbotek Anbot	CH 140	5700
Anbotek A	nbotek Anbotek Anbotek Anbo	CH 102	5510
tek aboter	Anbort Anti-	CH 110	5550
hotek Anbotek	OFDM for 802.11n(HT40)/ac(HT40) OFDMA for 802.11ax(HEW40)	CH 118	5590
hotek Anbotel	Anbo ok botek Anboit	CH 126	5630
Anu abotek Anbo	tek Anbotek Anbotek Anbotek Anbotek	CH 134	5670

1.7. Antenna Specification:

Ant.	Antenna Type	Connector	Gain (dBi)
lot 1 botek	Rod	N/A	Wi-Fi 5.3G: 5.17dBi
Anbore Ant	KOU Josef KOU Josef	abotek IN/A Anbore	Wi-Fi 5.6G: 5.21dBi
101	N NOT	pr. der	A CP

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1.8. Table for Antenna Configuration:

Operating Mode			1TX		
	TX Mode				
802.11a	Ann	abotek	Anbo V	Lotek.	Anbore
802.11n(HT20)	stek Anbor	p. stek	Nuppote V	And	abote
802.11ac(VHT20)	stek suboti	Anb. of	V	Anbor	b., .
802.11ax(HEW20)	NOO. IN	otek Anbort	V	k aboter	AUD
802.11n(HT40)	Aupoie. Au	rek sob	V4 Not	-V	tek p
802.11ac(VHT40)	abotek	rupo, bu	wotek Vant	Poton Aun	.ex
802.11ax(HEW40)	A	Anboten A	V	botek A	upo,
10° Di 10°	200	N.	10°	24	101

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

Test Mode	Frequency Band (MHz)	Max Average Output Power (dBm)	Gain (dBi)	Max. e.i.r.p. (dBm)	Max. e.i.r.p. (mW)
000 11-	5250~5350	17.58	5.17	22.75	188.36
802.11a	5470~5725	17.30	5.21	22.51	178.24
000.44=(11700)	5250~5350	17.52	5.17	22.69	185.78
802.11n(HT20)	5470~5725	17.76	5.21	22.97	198.15
802.11n(HT40)	5250~5350	17.84	5.17	23.01	199.99
	5470~5725	17.60	5.21	22.81	190.99
802.11ac(VHT20)	5250~5350	17.55	5.17 Mbor	22.72	187.07
	5470~5725	17.75	5.21	22.96	197.70
000 44 () () (T 40)	5250~5350	17.75	5.17	22.92	195.88
802.11ac(VHT40)	5470~5725	17.56	5.21	22.77	189.23
	5250~5350	17.77	5.17	22.94	196.79
802.11ax(HEW20)	5470~5725	14.63	5.21	19.84	96.38
	5250~5350	17.36	5.17	22.53	179.06
802.11ax(HEW40)	5470~5725	16.88	5.21	22.09	161.81

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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.

Applicable	EIRP	FCC 15.407 (h)(1)
potek Dibotek	>500mW	The TPC mechanism is required for system with an EIRP of above 500mW
Anboten Anbotek	<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.

	Operational Mode					
Requirement	Martan	Client without radar	Client with radar			
	Master	detection	detection			
Non-Occupancy Period	otek V Anbo	Not required	And Viek			
DFS Detection Threshold	hotek V Ant	Not required	otek prov			
Channel Availability Check Time	N	Not required	Not required			
U-NII Detection Bandwidth	And Vak	Not required	stek V suboren			

Applicability of DFS Requirements Prior to Use a Channel

AUD	Applicability of DFS Requirements during Normal Operation				
		Operational Mode			

	Operational Mode				
Requirement	Master	Client without radar detection	Client with radar detection		
DFS Detection Threshold	Anboten P	Not required	Inboin V stek		
Channel Closing Transmission Time	Anb Vek	Anbotek Anbotek	Anbotek V Anbotek		
Channel Move Time	PV	abotek Anbo	k hotev Anboter		
U-NII Detection Bandwidth	ek Vanbo	Not required	And Vek Anbot		

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

Maximum Transmit Power	Value (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 poter production		

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		

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.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
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	$\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}, \\ \begin{pmatrix} \frac{19 \cdot 10^{6}}{\mathrm{PRI}_{\mu \mathrm{sec}}} \end{pmatrix} \right\}$	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
	Radar Types 1-		L	80%	120

Short Pulse Radar Test Waveforms

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

360 3066

- = Round up $\{17.2\} = 18.$

pulses would be Roundup

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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.

	toda Ho	er Anbo	Lor	ng Pulse Rad	ar Test Wave	form	oten Anbu	
ρ0 Α	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
ek.	Anbo 5 Anbotek	5-100	5-20	1000-2000	1-3	8-20	80%	30

Long Pulse Radar Test Waveform

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	boter	Frequency Hopping Radar Test Waveform						Hotek
	Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
	Туре	Width	(µsec)	per Hop	Rate	Sequence	Percentage	Number of
14		(µsec)			(kHz)	Length	of	Trials
~						(msec)	Successful	
							Detection	
201	potek 6 Ant	otek 1 Anb	333	nbotek 9 M	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used 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 used.

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
1. _A n	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
4.00M	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year

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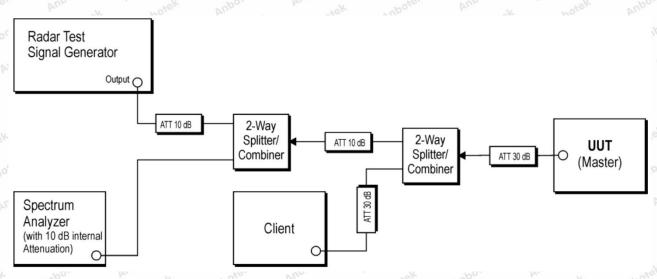
4. Dynamic Frequency Selection (DFS)

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.
- 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

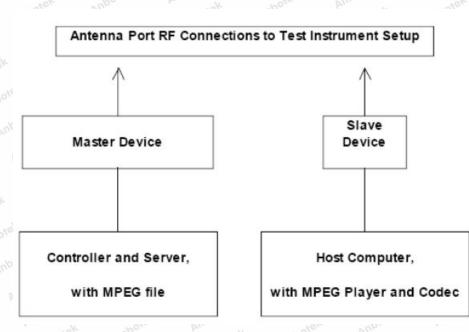
A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -64dBm as measured on the spectrum analyzer.

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

5.2. DFS Detection Threshold

Calibration:

WiFi	5.3G

DFS Threshold	Level
DFS Threshold Level (5.17dBi antenna): -57.83dBm	□At the antenna connector
	□In front of the antenna

Note: For SISO mode, the maximum EIRP is less than 200 milliwatt, the antenna gain is 5.17dBi. According to clause 2.2 of this report. The detection threshold level is -57.83dBm.

WiFi 5.6G

inbotek Anbo h	DFS Threshold	d Level	al K
DFS Threshold Level (5.21dBi antenna): -57.79	21dBi antenna): -57 79dBm	At the antenna connector	potek k
		□In front of the antenna	Anboten

Note: For SISO mode, the maximum EIRP is less than 200 milliwatt, the antenna gain is 5.21dBi. According to clause 2.2 of this report. The detection threshold level is -57.79dBm.

Please refer to Appendix A of the Appendix Test Data.

5.3. Channel Move Time And Channel Closing Transmission Time

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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