

TEST REPORT

Report No.: BCTC2304222109-3E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi IP Camera

Model/Type reference: FE-W

Tested Date: 2023-04-04 to 2023-04-18

Issued Date: 2023-04-19

Shenzhen BCTC Testing Co., Ltd.



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FCC ID: 2AYHE-2212A

Product Name: WiFi IP Camera

Trademark:

Model/Type Ref.: FE-W

Prepared For: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET

MONG KOK KL HONG KONG

Manufacturer: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET

MONG KOK KL HONG KONG

Factory: Shenzhen Reolink Technology Co., Ltd.

Address: 2-4th Floor, Building 2, YuanLing Industrial Park, ShangWu, Shiyan Street, Bao'an

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Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,

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Sample Received Date: 2023-04-04

Sample tested Date: 2023-04-04 to 2023-04-18

Issue Date: 2023-04-19

Report No.: BCTC2304222109-3E

47 CFR FCC Part 15.407

Test Standards: KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

Test Results: PASS

Remark: This is WIFI-5GHz band radio test report.

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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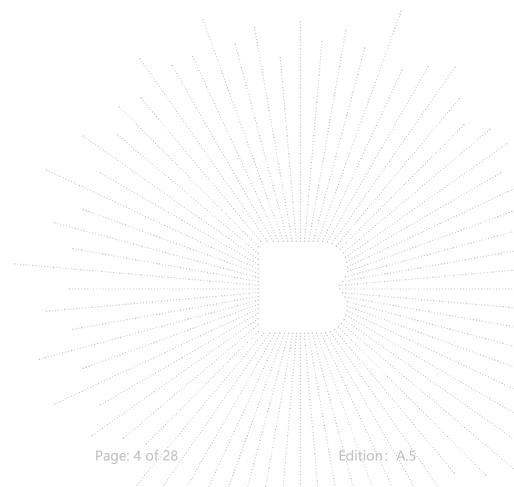
(Note: N/A Means Not Applicable)

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2304222109-3E	2023-04-19	Original	Valid



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2. Test Summary

The Product has been tested according to the following specifications:

Conformance Test Specifications						
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result	
UNII Detection Bandwidth	7.8.1	DFS: UNII Detection Bandwidth Measurement	N/A	100% of the 99% BW	N/A	
Channel Availability Check	7.8.2.1	DFS: Initial Channel Availability Check Time	N/A	CAC ≥ 60 sec	N/A	
Channel Availability Check	7.8.2.2	DFS: Radar Burst at the Beginning of the Channel Availability Check Time	N/A	Detection Threshold: -62dBm	N/A	
Channel Availability Check	7.8.2.3	DFS: Radar Burst at the End of the Channel Availability Check Time	N/A	Detection Threshold: -62dBm	N/A	
In-service Monitoring	7.8.3	DFS: In-Service Monitoring for Channel Move Time (CMT)	CMT ≤ 10sec	CMT ≤ 10sec	Complied	
In-service Monitoring	7.8.3	DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)	CCTT ≤ 60 ms starting at CMT 200ms	CCTT ≤ 60 ms starting at CMT 200ms	Complied ²	
In-service Monitoring	7.8.3	DFS: In-Service Monitoring for Non-Occupancy Period (NOP)	NOP > 30 min	NOP ≥ 30 min	Complied	
Statistical Performance Check	7.8.4	DFS: Statistical Performance Check	Complied	Table 5 - 7 (KDB 905462)	N/A	

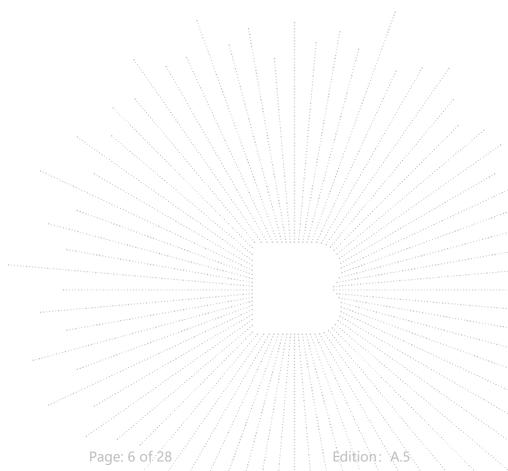
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Measurement Uncertainty 3.

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	UNII Detection Bandwidth	± 2.10 dB
2	Channel Availability Check	± 0.32 dB
3	In-service Monitoring	± 0.41 dB
4	Statistical Performance Check	± 3.22 dB



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4. Product Information And Test Setup

4.1 Product Information

Model/Type reference: FE-W
Model differences: N/A
Hardware Version: N/A
Software Version: N/A

Operation Frequency: Band 2A: 5260MHz~5320MHz

Band 2C: 5500MHz~5700MHz

Channel Separation: 802.11a:20MHz

802.11n: 20MHz/40MHz

802.11ac: 20MHz/40MHz/80MHz

Type of Modulation: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM

Antenna Type: Internal antenna

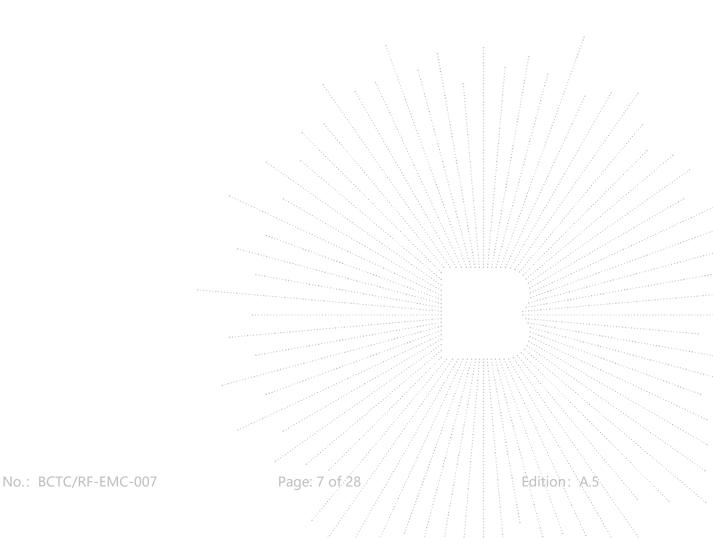
Antenna Gain: 6.96 dBi

Adapter Information:

Ratings: AC 120V/60Hz

MODEL: ADS-12AM-12 12012EPCU INPUT: 100-240V~50/60Hz Max.0.3A

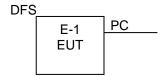
OUTPUT: DC 12.0V 1.0A





4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.



4.3 Test Setup Configuration

No.	Device Type	Brand	Model	Series No.	Note
E-1	WiFi IP Camera	replink	FE-W	N/A	EUT
E-2	N/A	N/A	N/A	N/A	Auxiliary
E-3	Router	Asus	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	3M	DC cable unshielded

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. The product is a client device without radar detection function and is a passive device.

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5. **Test Facility And Test Instrument Used**

Test Facility 5.1

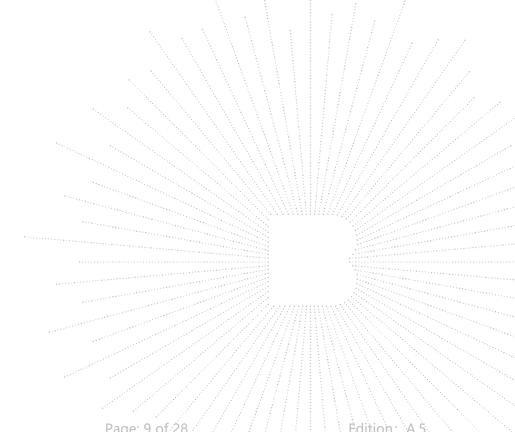
All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212 ISED Registered No.: 23583

ISED CAB identifier: CN0017

5.2 Test Instrument Used

Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Signal Analyzer20kHz-26 .5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Signal Generator	Keysight	N5182B	MY56200519	May 24, 2022	May 23, 2023
6 axis Robot 6	/	SAR	/	1	/
WIFI6 router WIFI6	DENSO	VS087A4-AV6- NNN	/	/	/



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6. Dynamic Frequency Selection (DFS) Test Result

6.1 DFS Parameters

Table D.1: DFS requirement values				
Value				
Minimum 30 minutes				
60 seconds				
10 seconds See Note 1.				
200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second periods. See Notes 1 and 2.				
Minimum 100% of the 99% power bandwidth See Note 3.				

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:

- 1)For the Short pulse radar Test Signals this instant is the end of the Burst.
- 2)For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated. 3)For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

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 *Channel* changes (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 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

Table D.2: Interference threshold values	
Maximum Transmit Power	Value (see note)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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 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.

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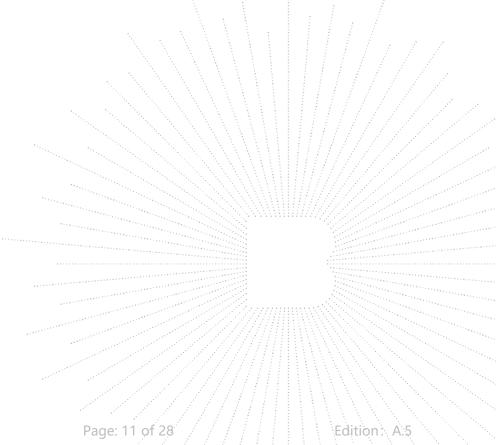


6.2 Applicability of DFS Requirements Prior to Use of a Channel

	DFS Operational mode			
Requirement	Master	Client without radar detection	Client with radar detection	
Non-Occupancy Period	Yes	Not required	Yes	
DFS Detection Threshold	Yes	Not required	Yes	
Channel Availability Check Time	Yes	Not required	Not required	
Uniform Spreading	Yes	Not required	Not required	
U-NII Detection Bandwidth	Yes	Not required	Yes	

6.3 Applicability of DFS Requirements during Normal Operation

	DFS Operational mode				
Requirement	Master	Client without radar detection	Client with radar detection		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Closing Transmission Time	Yes	Yes	Yes		
Channel Move Time	Yes	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required	Yes		



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6.4 Uniform Spreading

Manufacturer Declare the Uniform Spreading:

⊠ For the 5250-5350 MHz and 5470-5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a Gaussian random algorithm.

6.5 User Access Restrictions

User Access Restrictions

☑ DFS controls (hardware or software) related to radar d etection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

6.6 Channel Loading/Data Streaming

☑ IP Based (Load Based) - stream the test file from the Master to the Client

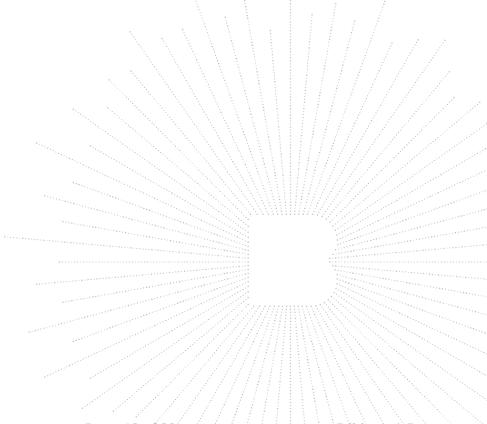
The client device is link with the master device and plays the WAV audio file from master device to client device. Test file download in NTIA website (http://ntiacsd.ntia.doc.gov/dfs/)

The client device is link with the master device and plays the MPEG file (6 1/2 Magic Hours) from master device to client device. Test file download in NTIA website (http://ntiacsd.ntia.doc.gov/dfs/)

Alternative streaming e.g., FTP with about 17 to 20% loading and submit proposal to FCC.

☑ Frame Based - stream the test file from the Master to the Client.

fixed talk/listen ratio, set the ratio to 45%/55%



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6.7 Radar Test Waveform Calibration

Short Pulse Radar Test Waveforms:

Table 5 - Short Pulse Radar Test Waveforms

Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Type	(µsec)	(µsec)		Percentage of	Number of
	AC 04	25,049		Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 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
gregate	(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. For short pulse radar type 1, the same waveform is used a minimum of 30 times. 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. 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 Type	Pulse Width (µsec)	Chirp Width (MHz)		Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Each waveform is defined as follows:

- 1. The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2. There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count
- 3. Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4. The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5. Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6. If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7. The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval

contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

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Frequency Hopping Radar Test Waveform:

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

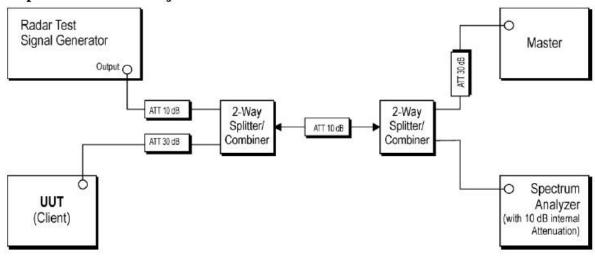
The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

DFS Threshold Level:

DFS Threshold Level					
DE0.TI	⊠atthe antenna connector				
DFS Threshold level: -62 dBm	☐ in front of the antenna				
The Interference Radar Detection	Threshold Level is -62 dBm. That had been taken into account				
the output power range and antenna	a gain.				

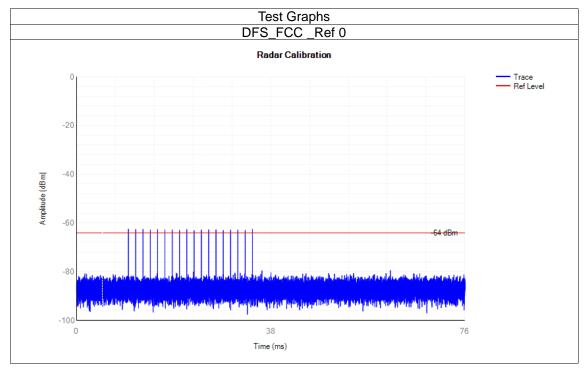
Test Set up:

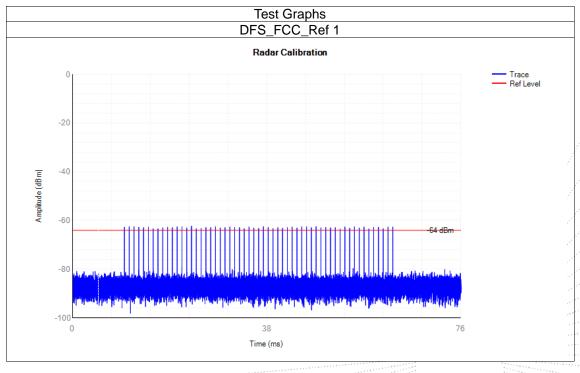
Setup for Client with injection at the Master



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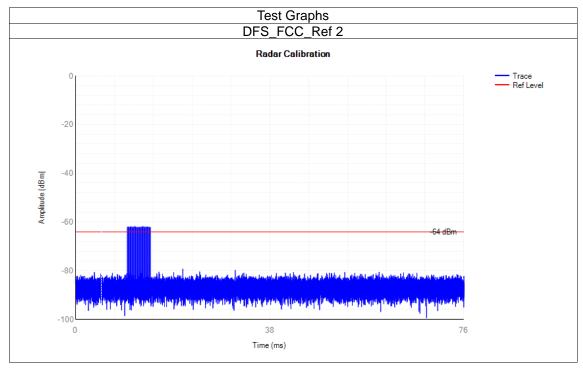


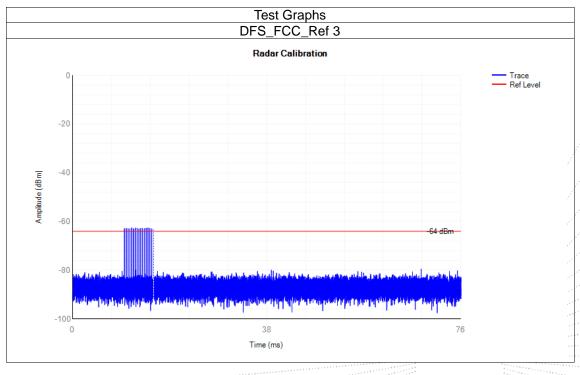




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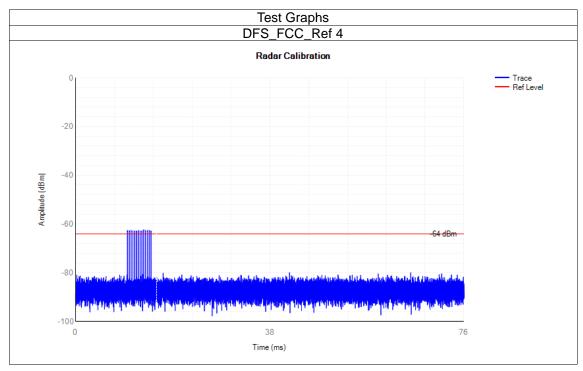


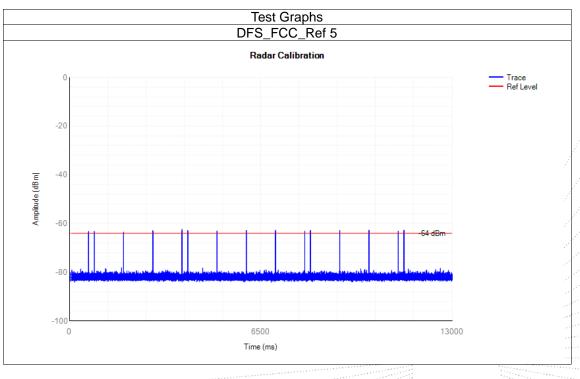




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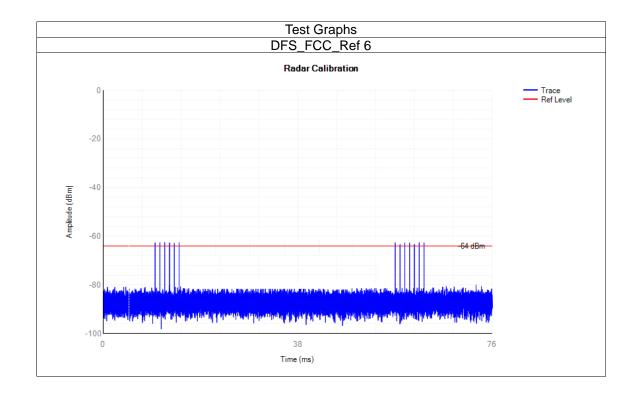


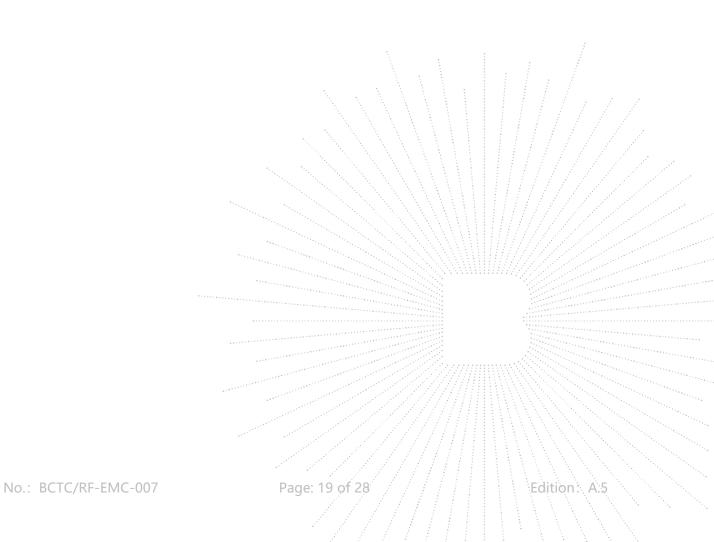




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6.8 UNII Detection Bandwidth

UNII Detection Bandwidth Limit:

Channel Bandwidth (MHz)	99% Power Bandwidth (MHz)	UNII Detection Bandwidth (MHz)
20	N/A	N/A
40	N/A	N/A
80	N/A	N/A

UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.

Measuring Instruments:

Refer a test equipment and calibration data table in this test report.

Test Procedures:

Test Method

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL. UNII Detection Bandwidth = FH -FL

Test result: Not required

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6.9 In-service Monitoring

In-service Monitoring Limit:

In-service Monitoring Limit					
Channel Move Time	10 sec				
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.				
Non-occupancy period	Minimum 30 minutes				

Measuring Instruments:

Refer a test equipment and calibration data table in this test report

Test Procedures:

Test Method

- ☑Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.
- ☑ Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 1-4 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.
- ☑Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

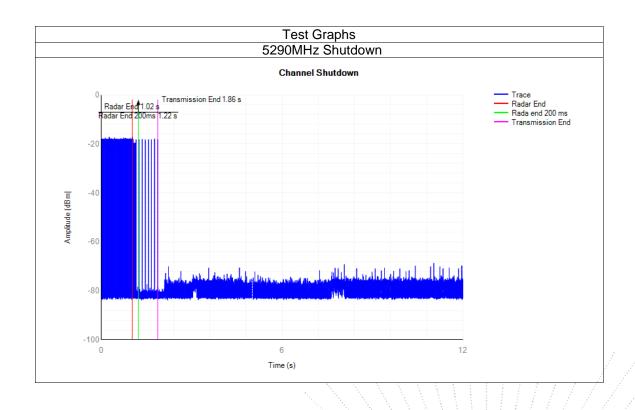
Note: The test data shows only the worst mode and maximum bandwidth.

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Test Result of In-service Monitoring:

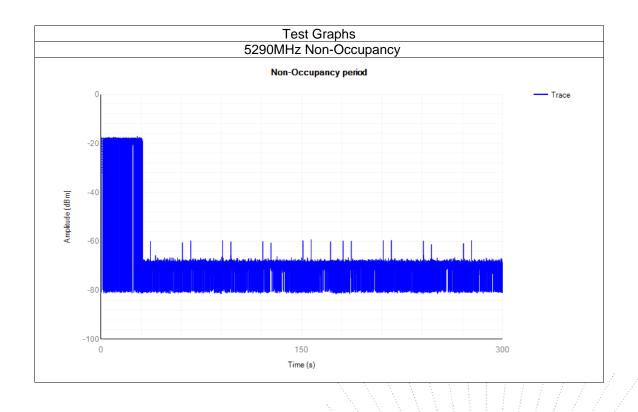
	Channe	el Closing Tra	nsmission Tim	e and Channel Mov	ve Time Result	
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Verdict
VHT80	5290	0.8405	10	0.0456	1	Pass



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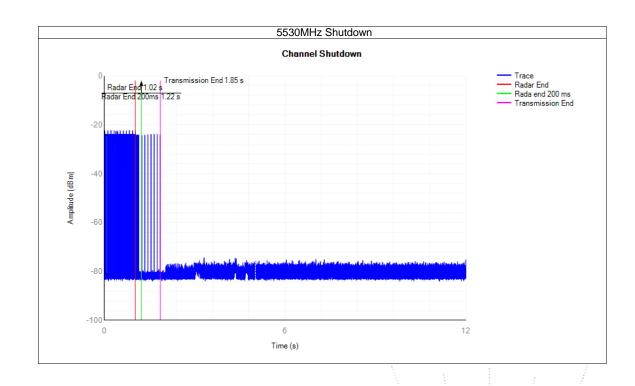
Non-Occupancy Period Result						
Modulatio Non-Occupancy Period						
n Mode	Freq. (MHz)	Measured	Limit	Verdict		
VHT80	5290	>30min	30min	PASS		
1850 sec Timing Plot						



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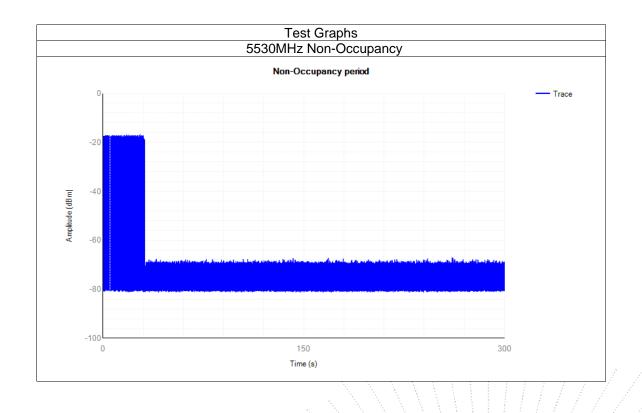
	Channel Closing Transmission Time and Channel Move Time Result						
Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Verdict	
VHT80	5530	0.8281	10	0.028	1	Pass	



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Non-Occupancy Period Result						
Modulatio	From (MUT)	Nor	Non-Occupancy Period			
n Mode	Freq. (MHz)	Measured	Limit	Verdict		
VHT80	5530	>30min	30min	PASS		
	1850 se	c Timing Plot				



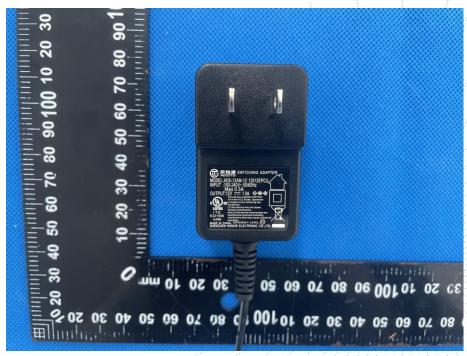


7. EUT Photographs

EUT Photo 1



EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

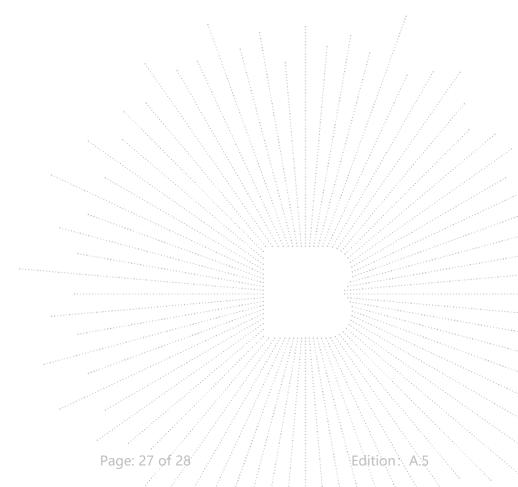
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EUT Test Setup Photographs

DFS





No.: BCTC/RF-EMC-007



STATEMENT

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.
- 8. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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