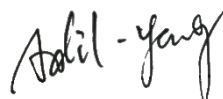


Test Report

Product Name.....: LED TV
Trademark.....: PHILIPS
Model No......: 43E3FQ
Series Model(s).....: A7A01G, 43PQF7676/F6 A, 43PQF7676/F6, 43PQF7676/F7, 43PQF7656/F7, 43PQF7656/F8
FCC ID.....: 2ANM343E3FQ
Report No.....: C260605034-RF05
Test Standards.....: CFR47 FCC Part 15: Subpart E Section 15.407
Applicant.....: Shenzhen Chuangwei-RGB Electronics Co., Ltd.
Address of Applicant.....: 13F-16F, Unit A, Skyworth Building, Shennan Road, Nanshan District, Shenzhen, Guangdong, China.
Manufacturer.....: Shenzhen Chuangwei-RGB Electronics Co., Ltd.
Manufacturer Address.....: 13F-16F, Unit A, Skyworth Building, Shennan Road, Nanshan District, Shenzhen, Guangdong, China.
Date of Test Date.....: Jun 05, 2026 to Jul 10, 2026
Date of Issue.....: Aug 14, 2026
Test Result.....: Compliance

Prepared By

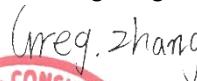
:



Adil Yang/Engineer

Reviewed By

:



Greg Zhang/Engineer

Approved By

:



Tom Gan/Manager

The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of preparer, reviewer and approver. Any objections must be raised to CSIC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	Aug 14, 2026	Original Issue	ALL	Adil Yang

Table of Contents	Page
1 TEST SUMMARY	4
1.1 Test Description	4
1.2 Test Facility	5
1.3 Measurement Uncertainty	5
2 GENERAL INFORMATION	6
2.1 General Description of EUT	6
2.2 Description of Test Modes and Test Frequency	7
2.3 Measurement Instruments List	8
2.4 Description of the Test Modes	9
2.5 Description of Necessary Accessories and Support Units	9
2.6 Environmental Conditions for Testing	9
3 DFS TECHNICAL REQUIREMENT AND RADAR TEST WAVEFOEMS	10
3.1 DFS Overview	10
3.2 DFS Detection Threshold	11
3.3 Parameters of Radar Test Waveforms	12
3.4 Test Set-up	15
3.5 Test Case Results	16
4 TEST PHOTOS	19
5 EUT PHOTOS	20

1 TEST SUMMARY

1.1 Test Description

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

The tests were performed according to following standards:

No.	Item of description	Clause(s)	Result	Note
1	DFS Detection Threshold	Part 15.407(h)	Pass	
2	U-NII Detection Bandwidth	Part 15.407(h)	N/A	1
3	Channel Availability Check Time	Part 15.407(h)	N/A	1
4	Channel Move Time	Part 15.407(h)	Pass	
5	Channel Closing Transmission Time	Part 15.407(h)	Pass	
6	Non- Occupancy Period	Part 15.407(h)	Pass	

Note:

1. "N/A" denotes test is not applicable in this Test Report, it is **client devices**.
2. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
3. The information of measurement uncertainty is available upon the customer's request.

1.2 Test Facility

Shenzhen Central Standard International Center Co., Ltd. (CSIC)

Room 201, Building 1, Mogen Fashion Industrial Park, No. 10, Shilongzai Road, Xinshi Community, Dalang Street, Longhua District, Shenzhen.

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

CNAS Registration No.: L11671

FCC Registration No.: 0031378433

Designation Number: CN1317

IC CAB identifier: CN0051

A2LA Lab Cert. No.: 6426.01

JQA JQA Filing No.: 226-220006

1.3 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Below is the best measurement capability for Shenzhen Central Standard International Center Co., Ltd.

Test Items	Measurement Uncertainty
RF output power, conducted	± 1.06 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

2 GENERAL INFORMATION

2.1 General Description of EUT

Product Specification	
Product Name:	LED TV
Model No.:	43E3FQ
Series Model(s):	A7A01G, 43PQF7676/F6 A, 43PQF7676/F6, 43PQF7676/F7, 43PQF7656/F7, 43PQF7656/F8
Power supply:	AC 120V ~ , 60Hz
Hardware Version:	43PQF7676/F6 A
Software Version:	Win7 MP Kit RTL11n_8723FU_USB v0.39 20221019
Technical Specification of 5G WIFI	
Operating Frequency:	U-NII-2A: 5250MHz to 5350MHz U-NII-2C: 5470MHz to 5725MHz
Type of Modulation:	802.11a: OFDM 802.11n(HT20, HT40): OFDM 802.11ac(VHT20, VHT40, VHT80): OFDM
DFS operating mode:	☐ Master ☐ Client with radar detection ☒ Client without radar detection
TPC Function:	NO
Antenna Type:	PIFA
Antenna Gain:	4.57dBi for U-NII-2A, 4.85dBi for U-NII-2C
Note: 1. For a more detailed features description, please refer to the manufacture's specifications or the user's manual. 2. Full tests were applied to the sample C260605034-Y01/01 only in this document 3. The above EUT specification information is provided by the manufacturer.	

2.2 Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting mode for testing.

RF Channel and Frequency List:

Frequency Band	Bandwidth	Channel	Frequency (MHz)
U-NII-2A	20MHz	52	5260
		56	5280
		60	5300
		64	5320
	40MHz	54	5270
		62	5310
U-NII-2C	20MHz	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
		140	5700
	40MHz	102	5510
		110	5550
		118	5590
		126	5630
		134	5670

2.3 Measurement Instruments List

RF Conducted measurement					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY50200391	May. 15, 2027
2	Vector Signal Generator	Agilent	N5182A	MY50140130	May. 15, 2027
3	Signal Generator	R&S	SMCV100B	103780	May. 15, 2027
4	MIMO power meter	KEYSIGHT	U2021XA	MY55080015	May. 15, 2027
5	Automatic control unit	MW	MW100-RFCB	MY54250020	May. 18, 2027
6	Programmable constant temperature and humidity chamber	Angui	AG1000L	2304061049	Jun. 15, 2027
7	MTS 8310E	MW	V 2.0.0.0		
RF Radiated measurement					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESRP3	101936	May. 15, 2027
2	Spectrum Analyzer	R&S	FSV40	101401	Feb.25, 2027
3	Bilog Antenna	Sunol	JB1	N/A	Jul.10, 2027
4	Horn Antenna	COMMW	ZAB-1-18G-50	20171109	May.16, 2028
5	Horn Antenna	COMMW	ZLB7-18-40G-777	N/A	Feb.28, 2027
6	Amplifier	COMMW	DLNA-30-1000-01	122417799	May 15, 2027
7	Amplifier	COMMW	DPA8-1000-18000-1012	8220837	Feb.25, 2027
8	Amplifier	SKET	LNPA_1840-50	SK201801801	Mar.03, 2027
9	Band Reject Filters	MICRO TRONICS	BRM 50702-02	006	May.20, 2027
10	Band Reject Filters	COMMW	ZBSF-C5500-800-168	N/A	May.20, 2027
11	Cable 6m-1	XINQY	XQY-CLA520-NJ-SMAJ-6M	25051772	May.20, 2027
12	Cable 1m	JunCoax	JA800-NMSM-1M	N/A	May.20, 2027
13	Cable-005	SUCOFLEX	104PEA4M	N/A	May.20, 2027
14	3M Chamber	Maor	9*6*6	--	Aug.15, 2028
15	EZ-EMC	Farad	V3.1		
Mains Terminal Disturbance Voltage Test equipment					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI3	101413	Feb.25, 2027
2	LISN	R&S	ENV216	100002	May.16, 2027
3	LISN	MEB	NNB 42	---	May.16, 2027
4	Cable 1.8m-1	XINQY	XQY-CMR200-NJ-BNCJ-1.8M	---	May.20, 2027
5	Shelding Room	Maor	8*4*3	--	Aug.14, 2028
6	EZ-EMC	Fara	V3.1		

Note: The cable loss has calculated in test result which connection between each test instruments.

2.4 Description of the Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operations mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Description	Data Rate
Mode 1	802.11n(HT40)	MCS0

2.5 Description of Necessary Accessories and Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Used	Equipment Name	Mfr/Brand	Model/Type No.	Serial No.	Note
☒	Notebook	DELL	Vostro 3400	N/A	
☒	Router	GL iNet	GL-MT3000	N/A	3
☐	WLAN and BT, 2x2 PCIe M.2 2230 adapter card	Intel	AX210NGW	N/A	4

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. For detachable type I/O cable should be specified the length in cm in 『Model/Type No.』 column.
3. The Router FCC ID: 2AFIW-MT3000; IC: 23019-MT3000.
4. The WLAN and BT, 2x2 PCIe M.2 2230 adapter card FCC ID: PD9AX210NG; IC: 1000M-AX210NG.

2.6 Environmental Conditions for Testing

Test Item	Temperature (°C)	Relative Humidity (%)	Test Voltage	Tested by
DFS radar signal detection threshold	25.8	68.0	DC 5V	Max Ran
Channel move time	25.8	68.0	DC 5V	Max Ran
Channel closing transmission time	25.8	68.0	DC 5V	Max Ran
Non-occupancy period	25.8	68.0	DC 5V	Max Ran

3 DFS TECHNICAL REQUIREMENT AND RADAR TEST WAVEFORMS

3.1 DFS Overview

Applicability of DFS Requirements Prior to Use of a Channel:

Requirement	Operational Mode		
	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
U-NII Detection Bandwidth	Yes	Not required	Yes

Applicability of DFS requirements during normal operation:

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar 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 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 20MHz channels and the channel center frequency.		

3.2 DFS Detection Threshold

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

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 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.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

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 facilitating 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.

3.3 Parameters of Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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 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	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		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			
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 usec is selected, the number of pulses would

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

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	1285.2	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

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
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Frequency Hopping Radar Test Waveform

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
6	1	333	9	0.333	300	70%	30

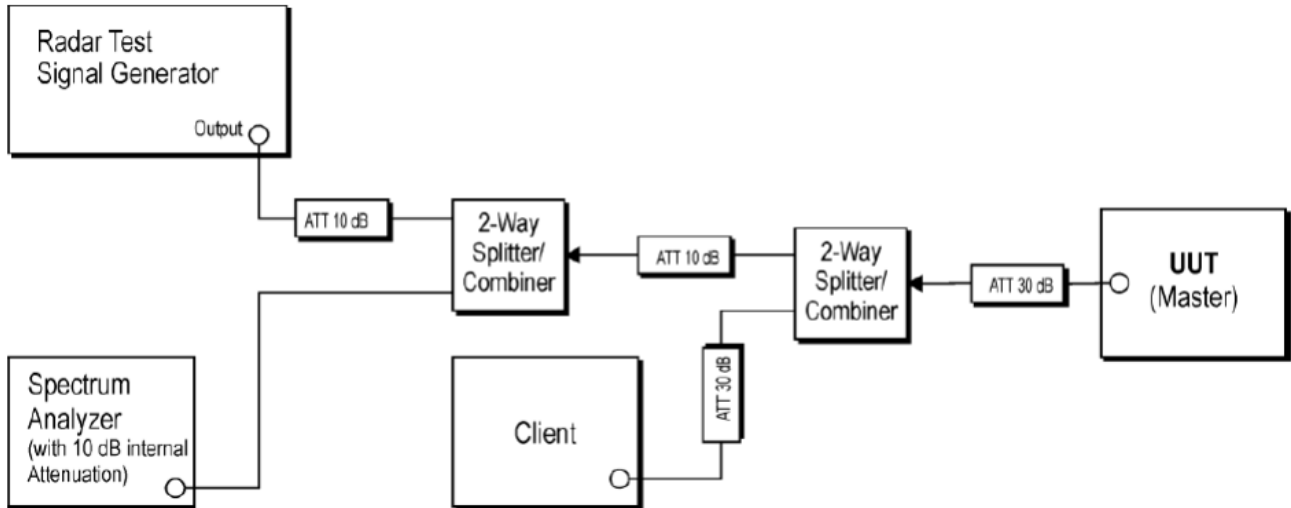
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: If a segment does not contain at least 1 frequency within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

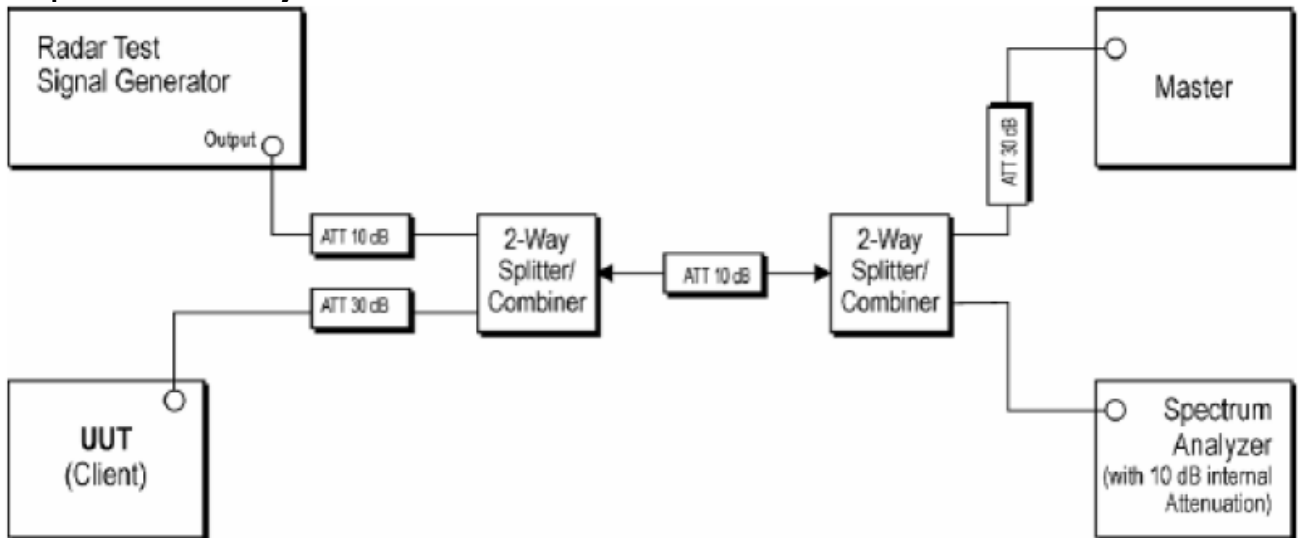
3.4 Test Set-up

Channel loading is based on IP.

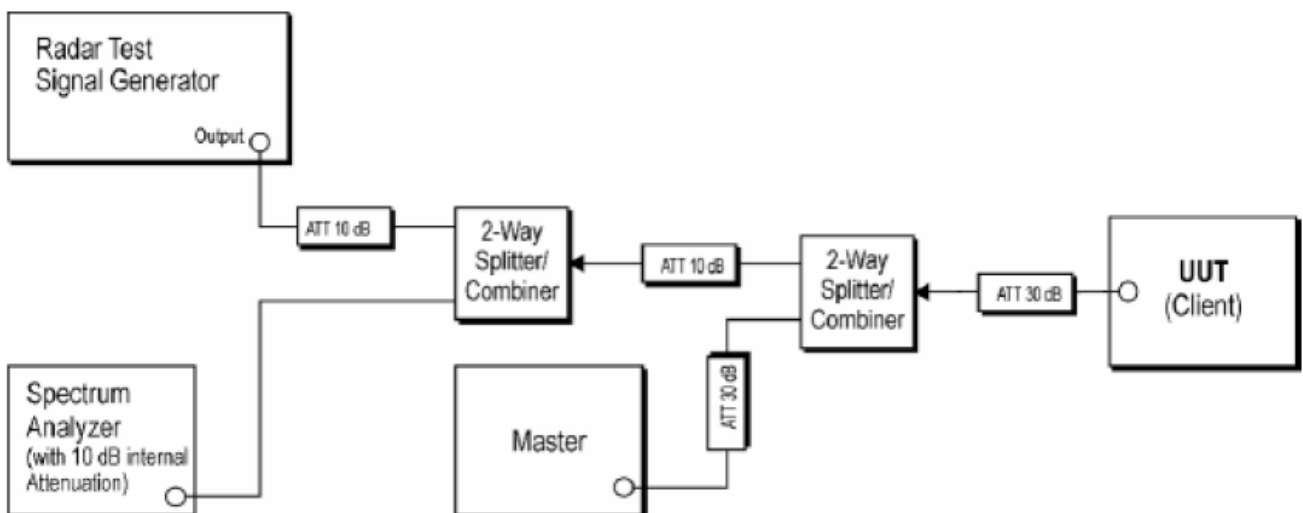
Setup for Master with injection at the Master:



Setup for Client with injection at the Master:



Setup for Client with injection at the Client:



3.5 Test Case Results

3.5.1 DFS Detection Threshold

Client with injection at the Master.

For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64dBm, the tested level is lower than required level hence it provides margin to the limit.

Frequency of Calibration	
Bandwidth	Center Frequency
802.11n HT40	5270MHz
802.11n HT40	5510MHz

Calibration Result:

Please refer to Appendix A.

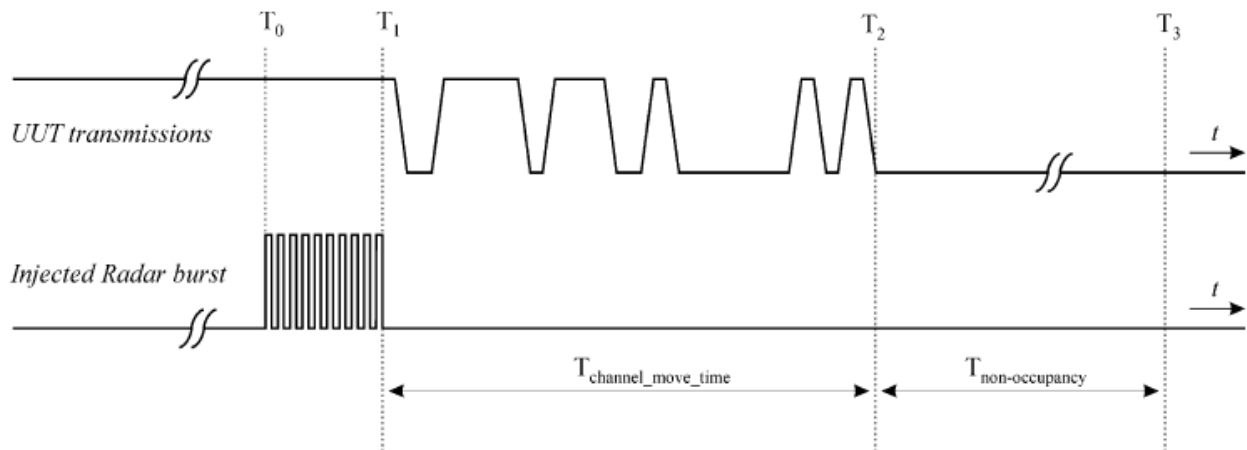
3.5.2 Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

These tests define how the following DFS parameters are verified during In-Service Monitoring;

- Channel Closing Transmission Time
- Channel Move Time
- Non-Occupancy Period

The steps below define the procedure to determine the above-mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In-Service Monitoring).

- a) One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- b) In case the UUT is a U-NII device operating as a Client Device (with or without DFS), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
- d) At time T_0 the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure 17 illustrates Channel Closing Transmission Time.
- f) When operating as a Master Device, monitor the UUT for more than 30 minutes following instant T_2 to verify that the UUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.
- g) In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).



Item	Limit
Channel Move Time	$\leq 10s$
Channel Closing Transmission Time	$\leq 200 \text{ ms} + 60 \text{ ms}$ (over remaining 10 second period) See Notes 1 and 2.
Non-Occupancy Period	$\geq 30\text{min}$

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.

Frequency of Test	
Bandwidth	Center Frequency
802.11n HT40	5270MHz
802.11n HT40	5510MHz

Test Result:

Please refer to Appendix A.

4 TEST PHOTOS

Please refer to Appendix D Test Setup.

5 EUT PHOTOS

External Photos Please refer to Appendix B and Internal Photos Please refer to Appendix C.

*****The End*****