



# **FCC DFS Test Report**

FCC ID: VOB-P3430

This report concerns: Original Grant

Project No. 1903C230

SHIELD Android TV Game Console Equipment

Test Model : P3430 Series Model : N/A

: NVIDIA Corporation Applicant

Address : 2788 San Tomas Expressway Santa Clara, CA

95051, United States

Date of Receipt : Mar. 27, 2019

Date of Test : May 06, 2019 ~ Jun. 12, 2019

Issued Date : Jun. 21, 2019 Tested by : BTL Inc.

**Testing Engineer** 

**Technical Manager** 

**Authorized Signatory** 

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Certificate #5123.02

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BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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## **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 21, 2019





#### 1. GENERAL SUMMARY

Equipment : SHIELD Android TV Game Console

Brand Name : NVIDIA Test Model : P3430 Series Model : N/A

Applicant : NVIDIA Corporation Manufacturer : NVIDIA Corporation

Address : 2788 San Tomas Expressway Santa Clara, CA 95051, United States

Date of Test : May 06, 2019 ~ Jun. 12, 2019

Test Sample : Engineering Sample

Standard(s) : FCC Part 15, Subpart E (Section 15.407) / FCC 06-96

FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules

v01r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-5-1903C230) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the UNII-2A, UNII-2C DFS Slave part.

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## 2. EUT INFORMATION

## 2.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

Equipment	SHIELD Android TV Game Console
Brand Name	NVIDIA
Test Model	P3430
Series Model	N/A
Model Difference(s)	N/A
Operationa Mode	Slave
Operating Frequency Range	5250 MHz ~ 5350 MHz & 5470 MHz ~ 5725 MHz
Modulation	OFDM

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Master Slave device without radar detection Slave device with radar de	rice without radar detection Slave device with radar detection
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## Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

## 2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII	UNII-2A		UNII-2A		I-2A
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				





IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII	-2C	UNI	I-2C	UNI	I-2C
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

## 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Internal	N/A	4.38	UNII-2A
2	N/A	N/A	Internal	N/A	4.05	UNII-2A

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Internal	N/A	4.07	UNII-2C
2	N/A	N/A	Internal	N/A	3.66	UNII-2C

#### Note:

- (1) This EUT supports MIMO 2X2, any transmit signals are correlated with each other, So Directional gain = $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]dBi$ , then,
  - 1) For UNII-2A, Directional gain= $10\log[(10^{4.38/20}+10^{4.05/20})^2/2]dBi = 7.23dBi$ . So, the output power limit is 24-7.23+6=22.77, the power density limit is 11-7.23+6=9.77.
  - 2) For UNII-2C, Directional gain= $10\log[(10^{4.07/20}+10^{3.66/20})^2/2]dBi = 6.88dBi$ . So, the output power limit is 24-6.88+6=23.12, the power density limit is 11-6.88+6=10.12.
- (2) Both Ant. 1 and Ant. 2 had been tested and the test data of Ant. 1 were the worst case. a mode has only one antenna transmits, n/ac mode can transmit two antennas at the same time.

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## 2.2 CONDUCTED OUTPUT POWER AND EIRP

Table 2: The Maximum Output Power and e.i.r.p. List

TX A Mode							
Frequency Band (MHz)	Max. Output Power (dBm)	Antenna Gain		Max. e.i.r.p. (mW)			
5250~5350	19.64	4.05	23.69	233.88			
5470~5725	20.27	4.07	24.34	271.64			

TX N (HT40) Mode							
Frequency Band Max. Output Power Directional Max. e.i.r.p. Max. e.i.r.p							
(MHz)	(dBm)	Gain	(dBm)	(mW)			
5250~5350	20.32	7.23	27.55	568.85			
5470~5725	21.13	6.88	28.01	632.41			

TX AC (VHT80) Mode							
Frequency Band Max. Output Power Directional Max. e.i.r.p. Max. e.i.r.p.							
(MHz)	(dBm)	Gain	(dBm)	(mW)			
5250~5350	14.52	7.23	21.75	149.62			
5470~5725	23.03	6.88	29.91	979.49			

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## **3.U-NII DFS RULE REQUIREMENTS**

## 3.1 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 3 and 4 for the applicability of DFS requirements for each of the operational modes.

Table 3: Applicability of DFS requirements prior to use a channel

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

Table 4: Applicability of DFS requirements during normal operation.

102.10 11.7.100001111.5	Operational Mode			
Requirement	Master	Client without radar detection	Client with radar detection	
DFS Detection Threshold	✓	Not required	✓	
Channel Closing Transmission Time	✓	✓	✓	
Channel Move Time	✓	✓	✓	
U-NII Detection Bandwidth	✓	Not required	✓	

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#### 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

#### **DETECTION THRESHOLD VALUES**

Table 5: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

1.000.			
Maximum Transmit Power	Value (See Notes 1 and 2)		
e.i.r.p. ≥ 200 milliwatt	-64 dBm		
e.i.r.p. < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm		
e.i.r.p. < 200 milliwatt that do not meet the power spectral density requirement	-□4 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: e.i.r.p. is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 6: DES 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 UNII 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 guiet 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

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.

Table 7: Short Pulse Radar Test Waveforms.

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum		
Туре	Width	(µsec)	111111111111111111111111111111111111111	Percentage of	Number		
-51	(µsec)	(1-2-2)		Successful	of		
	(1000)			Detection	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	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. Ch	Note 1. Chart Dulca Dadar Type 0 should be used for the detection handwidth test, channel move						

**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.

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Table 8: 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.

Table 9: Frequency Hopping 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
6	1	333	9	0.333	300	70%	30

#### 4. TEST INSTRUMENTS

Table 10: Test Instruments List.

DESCRIPTION	MANUFACTURER	MODEL NO.	Serial No	Calibration Until
EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 10, 2020
Signal Generator	Agilent	E4438C	MY49071316	Mar. 10, 2020
POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Mar. 10, 2020
POWER SPLITTER	Mini-Circuits	ZN4PD1-63-S+	SF9335D1045-1	Mar. 10, 2020
Attenuator	WOKEN	6SM3502	VAS1214NL	Feb. 12, 2020
Wi-Fi Router	tp-link	Archer AX6000	N/A	N/A

#### Note:

- (1) Calibration interval of instruments listed above is one year.
- (2) Wi-Fi Router's FCC ID: TE7AX6000

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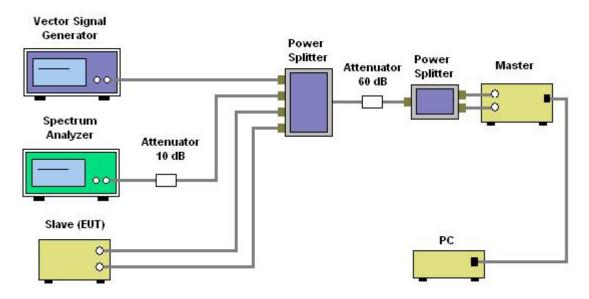
## 5. DYNAMIC FREQUENCY SELECTION (DFS) TEST

#### **5.1 DFS MEASUREMENT SYSTEM**

#### **Test Precedure**

- 1. Master device and client device are set up by conduction method as the following configuration.
- 2. 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 "Lan test" to reach 17% channel loading as below

## Setup

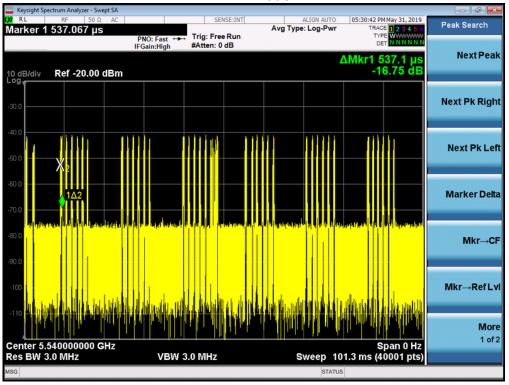




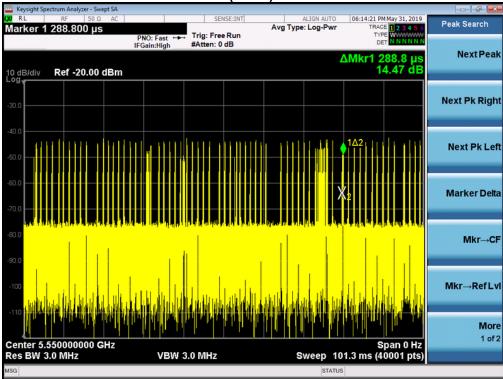


## **Channel Loading**







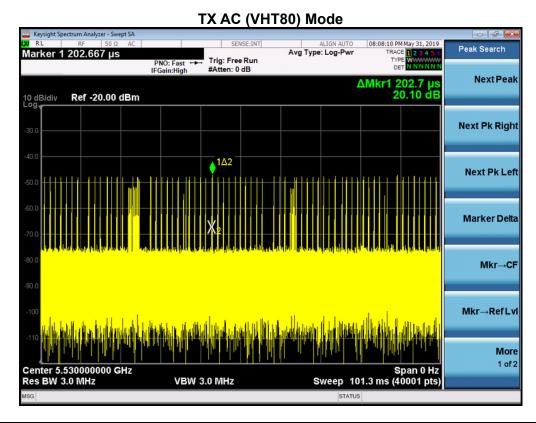


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Frequency	Marker Delta	Number	On Time	Total Time	Duty cycle	Limit
(MHz)	(ms)	Number	(ms)	(ms)	(%)	(%)
5540	0.5371	35	18.7985	101.3	18.56	17.00
5550	0.2888	60	17.328	101.3	17.11	17.00
5530	0.2027	85	17.2295	101.3	17.01	17.00

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.

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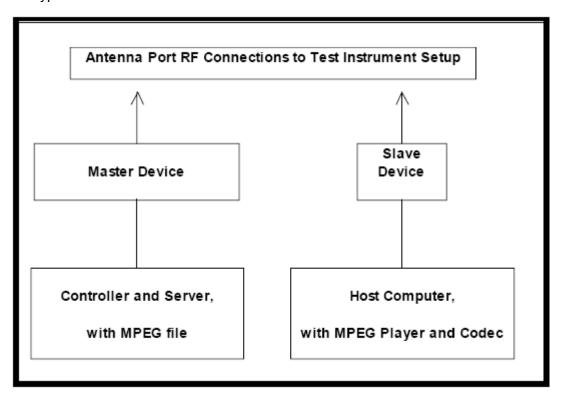
#### 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

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 –62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from –62 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 –62 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.



#### **5.3 DEVIATION FROM TEST STANDARD**

No deviation.

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## 6. TEST RESULTS

## **6.1 SUMMARY OF TEST RESULT**

Clause	Test Parameter	Test Mode and Channel	Remarks	Pass/Fail
15.407	DFS Detection Threshold	-	No Applicable	N/A
15.407	Channel Availability Check Time	-	Not Applicable	N/A
15.407	Channel Move Time	TX A Mode 5540 MHz  TX N (HT40) Mode  5550 MHz  TX AC (VHT80) Mode  5530 MHz	Applicable	Pass
15.407	Channel Closing Transmission Time	TX A Mode 5540 MHz  TX N (HT40) Mode  5550 MHz  TX AC (VHT80) Mode  5530 MHz	Applicable	Pass
15.407	Non- Occupancy Period	TX A Mode 5540 MHz  TX N (HT40) Mode  5550 MHz  TX AC (VHT80) Mode  5530 MHz	Applicable	Pass
15.407	Uniform Spreading	-	Not Applicable	N/A
15.407	U-NII Detection Bandwidth	-	Not Applicable	N/A

## 6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE.

The EUT is slave equipment, it need a master device when testing.

Master with injection at the Master. (Radar Test Waveforms are injected into the Master)

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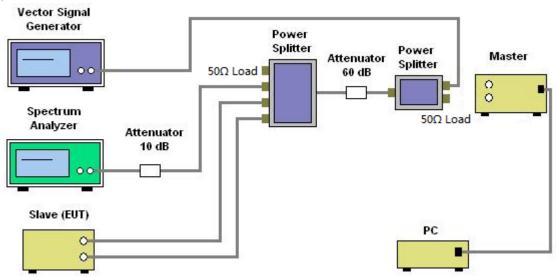
## **6.3 DFS DETECTION THRESHOLD**

#### Calibration:

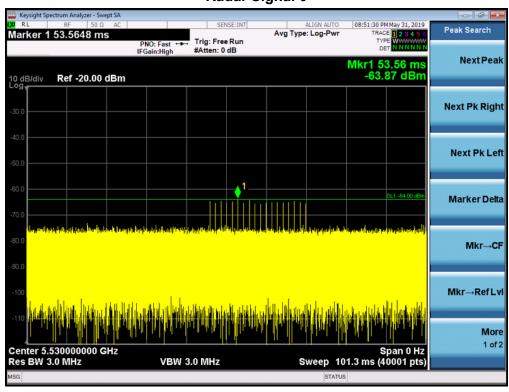
The EUT is slave equipment and it with the lowest gain is 3.66 dBi.

For a detection threshold level of -64dBm and the master antenna gain is 2.28 dBi, required detection threshold is -61.27 dBm (= -64+2.28).

Note: Maximum Transmit Power is less than 200 milliwatt in this report, so detection threshold level is -62dBm.



## Radar Signal 0



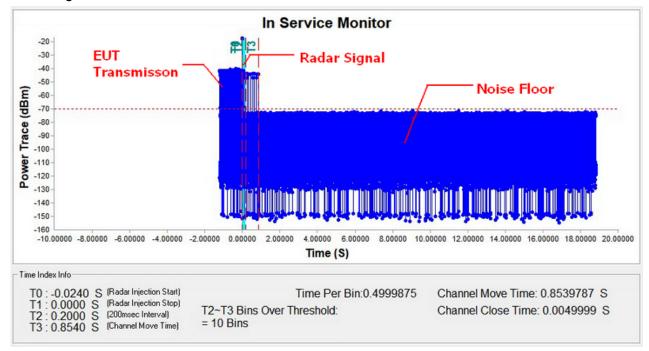




#### 6.4 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

#### TX A Mode

#### Radar signal 0



**Note:** To denotes the Radar Injection Start.

T1 denotes the start of Channel Move Time upon the end of the last Radar burst.

T2 denotes the data transmission time of 200ms from T1.

T3 denotes the end of Channel Move Time.



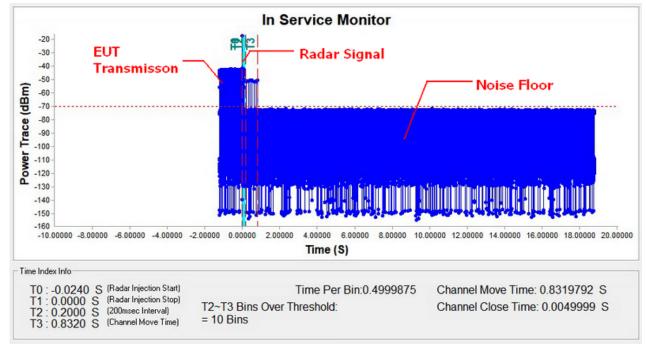
Note: An expanded plot for the device vacates the channel in the required 500ms





## TX N (HT40) Mode

## Radar signal 0

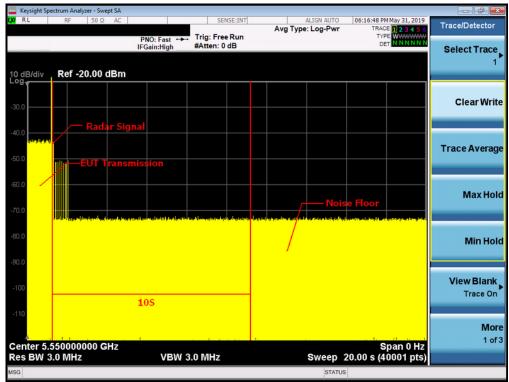


**Note:** To denotes the Radar Injection Start.

T1 denotes the start of Channel Move Time upon the end of the last Radar burst.

T2 denotes the data transmission time of 200ms from T1.

T3 denotes the end of Channel Move Time.



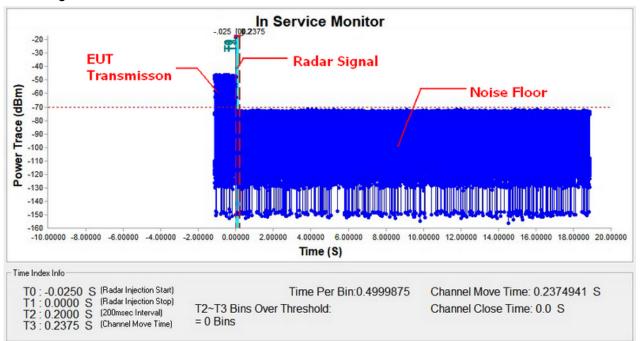
Note: An expanded plot for the device vacates the channel in the required 500ms





## TX AC (VHT80) Mode

## Radar signal 0

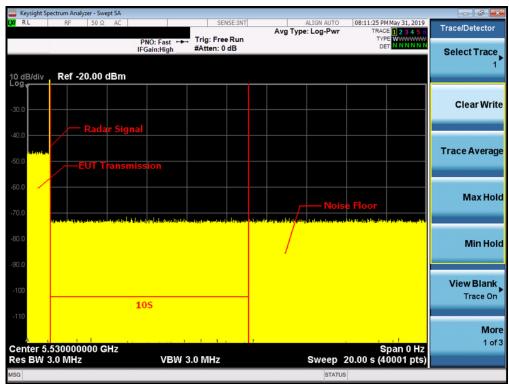


**Note:** To denotes the Radar Injection Start.

T1 denotes the start of Channel Move Time upon the end of the last Radar burst.

T2 denotes the data transmission time of 200ms from T1.

T3 denotes the end of Channel Move Time.



**Note:** An expanded plot for the device vacates the channel in the required 500ms





	TX A Mode				
Item	Measured Value(s)	Limit(s)			
Channel Move Time	0.8539787	10			
		200 milliseconds + an aggregate			
Channel Close Time	0.0049999	of 60 milliseconds over remaining			
		10 second period			

TX N (HT40) Mode				
Item Measured Value(s)		Limit(s)		
Channel Move Time	0.8319792	10		
		200 milliseconds + an aggregate of		
Channel Close Time	0.0049999	60 milliseconds over remaining 10		
		second period		

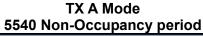
TX AC (VHT80) Mode		
Item	Measured Value(s)	Limit(s)
Channel Move Time	0.2374941	10
		200 milliseconds + an aggregate of
Channel Close Time	0.0	60 milliseconds over remaining 10
		second period

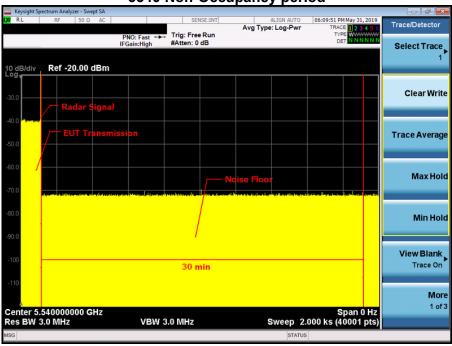


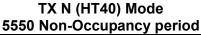


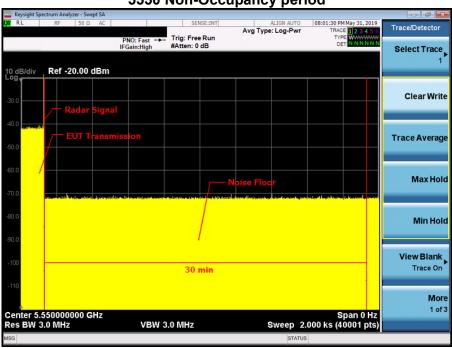
## **6.5 NON-OCCUPANCY PERIOD**

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.





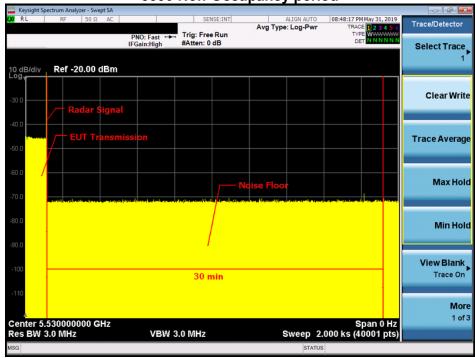












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