

6.2. Channel Move Time, Channel Closing Time, Non-Occupancy Period Measurement

6.2.1. Limit

Parameter	Value
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.
Non-Occupancy Period	30 min
Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:	
 a. For the Short Pulse Radar Test Signals this instant is the end of the Burst. b. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated. c. For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform. 	
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.	



6.2.2. Test Procedures

- 6.2.2.1. 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. A U-NII device operating as a Client Device will associate with the Master of channel. Stream the MPEG test file from the Master Device to the Client Device on the selected channel for entire period of the test. At time to the radar waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
- 6.2.2.2. Observe the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions from the EUT during the observation time [Channel Move Time]. One 10 Second plot bee reported for the short Pulse Radar type 1-4 and one for the Long Pulse Radar Type test in a 22 second plot. The plot for the Short Pulse Radar types start at the end of the radar burst. The Channel Move Time will be calculated based on the plot of the short Pulse Radar Type. The Long Pulse Radar Type plot show the device ceased transmissions within the 10 second window after detection has occurred. The plot for the Long Pulse Radar type should start at the beginning of the 12 second waveform.
- 6.2.2.3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions from the EUT during the observation time [Channel Move Time]. One 10 Second plot bee reported for the short Pulse Radar type 1-4 and one for the Long Pulse Radar Type test in a 22 second plot. The plot for the Short Pulse Radar types start at the end of the radar burst. The Channel Move Time will be calculated based on the plot of the short Pulse Radar Type. The Long Pulse Radar Type plot show the device ceased transmissions within the 10 second window after detection has occurred. The plot for the Long Pulse Radar type should start at the beginning of the 12 second waveform.
- 6.2.2.4. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume only transmissions on this channel.



6.2.3. Test Result

Applicability of DFS Requirement During Normal Operation6.2.3.1. Channel Closing Transmission Time & Channel Move Time (PASS)





U-NII-2C Band 20MHz **80MHz** Test Date : Aug.28, 2019 Test Date : Aug.28, 2019 Spectrum Spectrum Ref Level 0.0 Att Ref Level 0.00 Att 0 dBm • RBW 3 MHz 10 dB • SWT 12 s VBW 3 MHz 0 dBm • RBW 3 MHz 10 dB • SWT 12 s VBW 3 MHz SGL 91Pk Cli 28.12 10 dBm M1[1] 0.97 di 9.000 10 dBr M1[1] -35.93 di 508.875 20 dBr 70 dBm 80 dB 90 dBn CF 5.53 G .08.2019 Date: 28.AUG.2019 14:03:41 Date: 28.AUG.2019 16:09:07 Channel move time < 10 S Channel move time < 10 S ₩) Spectrum Spectrum **T** Ref Level 0.00 dBm Att 10 dB Ref Level 0.00 dE RBW 3 MHz VBW 3 MHz RBW 3 MHz VBW 3 MHz 10 dB - SWT 12 s 10 dB 👄 SWT 12 s SGL 1Pk Clrw D1[1] D1[1] -28.12 10.00000 -35.93 d -34.76 10.00000 -30.97 d 489.000 M1[1] M1[1] -20 8.875 40 1 CF 5.5 GF 1.2 s/ CF 5.53 G 32001 pt 1.2 s/ No X-value 583.500000 | No 1 -48.460 dbm -53.082 dBm -48.806 dBm -48.658 dBm -37.463 dBm -37.294 dBm -43.078 dBm 612.375000 627.750000 637.875000 642.000000 657.750000 667.875000 672.375000 687.750000 974.625000 ms dBm dBm dBm dBm dBm dBm 587.625000 ms 603.000000 ms 31 32 33 34 35 36 522.000000 532.500000 551.625000 38.060 37.547 .500000 561.750000 ms 574.125000 ms -37.344 dBn -37.507 dBn 591.750000 m 701 Date: 28.AUG.2019 14:04:42 Date: 28.AUG.2019 16:09:30 Channel Closing Transmission Time Calculated Channel Closing Transmission Time Calculated Sweep Time(S) sec 12 Sweep Time(S) sec 12 Sweep points (P) 32001 Sweep points (P) 32001 20 Number of Sweep points in 10 sec (N) 36 Number of Sweep points in 10 sec (N) Channel Closing Time (C) 13.50ms Channel Closing Time (C) 7.50ms Channel closing time is calculated from C=N* Channel closing time is calculated from C=N* dwell; where dwell is the occupancy time per dwell; where dwell is the occupancy time per sweep point calculated by the formula: sweep point calculated by the formula: dwell=S/P. N is the number of sweep points dwell=S/P. N is the number of sweep points indicating transmission after S1; where S1 is indicating transmission after S1; where S1 is the radar signal detected. the radar signal detected.



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6.2.3.2. Non-Occupancy period (PASS)