

DFS PORTION of FCC 47 CFR PART 15 SUBPART E

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE PHONE with BT, DTS/UNII a/b/g/n/ac and NFC

FCC ID: PY7-26828G

REPORT NUMBER: 12371351-E6V2

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Prepared for SONY MOBILE COMMUNICATIONS, INC. 4-12-3 HIGASHI-SHINAGAWA SHINAGAWA-KU, TOKYO, 140-0002, JAPAN

> Prepared by UL VERIFICATION SERVICES INC. 47173 BENICIA STREET FREMONT, CA 94538, U.S.A. TEL: (510) 771-1000 FAX: (510) 661-0888



Revision History

Rev.	lssue Date	Revisions Revised By				
V1	07/06/18	Initial Issue	Conan Cheung			
V2	07/25/18	Section 3 update	Henry Lau			

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC. 4-12-3 HIGASHI-SHINAGAWA, SHINAGAWA-KU, TOKYO, 140-0002, JAPAN						
EUT DESCRIPTION: GSM/WCDMA/LTE PHONE with BT, DTS/UNII a/b/g/n/ac and NFC						
SERIAL NUMBER: BH9300AUD4						
DATE TESTED:	DATE TESTED: JUNE 29, 2018					
APPLICABLE STANDARDS						
ST	ANDARD	TEST RESULTS				
DFS Portion of CF	FR 47 Part 15 Subpart E	Complies				

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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Prepared By:

Douglas Combuser

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the DFS portion of FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, FCC KDB 789033, KDB 905462 D02 and D03.

3. REFERENCE DOCUMENTS

Measurements of transmitter parameters as referenced in this report are documented in UL Verification Services report number 12371351-E5.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

5. CALIBRATION AND UNCERTAINTY

5.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty level has been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY	
Time	± 0.02 %	

The Uncertainty figure is valid to a confidence level of 95%.

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6. DYNAMIC FREQUENCY SELECTION

6.1. OVERVIEW

6.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 2

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION" and KDB 905462 D03 "U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY".

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Table 1: 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	

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode			
	Master	Client (without DFS)	Client (with DFS)	
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	

Additional requirements for	Master Device or Client with	Client				
devices with multiple bandwidth	Radar DFS	(without DFS)				
modes						
U-NII Detection Bandwidth and	All BW modes must be	Not required				
Statistical Performance Check	tested					
Channel Move Time and Channel	Test using widest BW mode	Test using the				
Closing Transmission Time	available	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 all 20						
MHz channel blocks and a null freque	ency between the bonded 20 MHz	channel blocks.				

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Table 3: Interference Threshold values, Master or Client incorporating In-ServiceMonitoring

0						
Maximum Transmit Power	Value					
	(see notes)					
E.I.R.P. ≥ 200 mill watt	-64 dBm					
E.I.R.P. < 200 mill watt and	-62 dBm					
power spectral density < 10 dBm/MHz						
E.I.R.P. < 200 mill watt that do not meet power spectral	-64 dBm					
density requirement						
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: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB						

publication 662911 D01.

Parameter	Value
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + approx. 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 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.

Table 5 – Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Pulses	Minimum	Minimum				
Туре	Width	(usec)		Percentage	Trials				
	(usec)			of Successful					
				Detection					
0	1	1428	18	See Note 1	See Note				
					1				
1	1	Test A: 15 unique		60%	30				
		PRI values randomly							
		selected from the list	Roundup:						
		of 23 PRI values in	{(1/360) x (19 x 10 ⁶ PRI _{usec})}						
		table 5a							
		Test B: 15 unique							
PRI values randomly									
		selected within the							
range of 518-3066									
	of 1 usec, 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 T	ypes 1-4)	80%	120				
Note 1:	Note 1: Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel</i>								
	Move Time, and Channel Closing Time tests.								

Table 6 – Long Pulse Radar Test Signal

Radar	Pulse	Chirp	PRI	Pulses	Number	Minimum	Minimum
Waveform	Width	Width	(µsec)	per	of	Percentage	Trials
Туре	(µsec)	(MHz)		Burst	Bursts	of Successful	
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

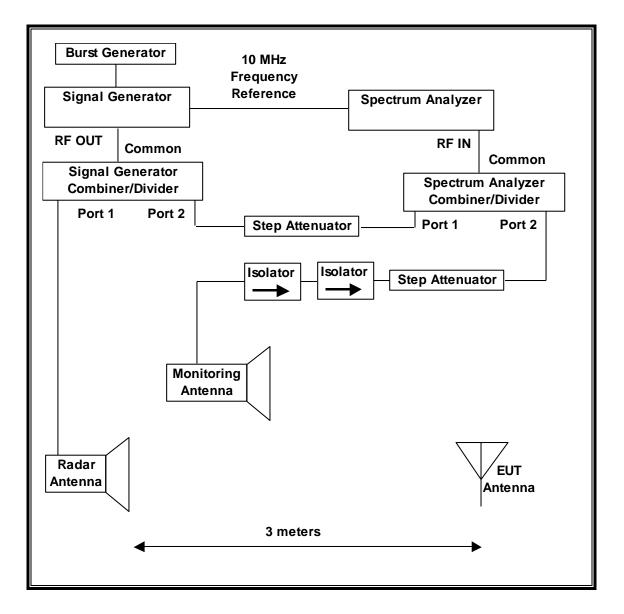
Table 7 – Frequency Hopping Radar Test Signal

Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Waveform	Width	(µsec)	per	Rate	Sequence	Percentage of	Trials
Туре	(µsec)		Нор	(kHz)	Length	Successful	
			-		(msec)	Detection	
6	1	333	9	0.333	300	70%	30

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6.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



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SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

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 KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H 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. 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.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm 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. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

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.

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ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. WLAN traffic that meets or exceeds the minimum required channel loading was generated from the Master device to the Slave EUT. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Number	Cal Due	
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T459	06/30/18	
Signal Generator, MXG X-Series RF Vector	Agilent	N5182B	T1134	04/23/19	

6.1.3. TEST AND MEASUREMENT SOFTWARE

The following test and measurement software was utilized for the tests documented in this report:

TEST SOFTWARE LIST				
Name Version Test / Function				
Aggregate Time-PXA	gregate Time-PXA 3.1 Channel Loading and Aggregate Closing Time			
PXA Read	3.1	Signal Generator Screen Capture		
SGXProject.exe	1.7	Radar Waveform Generation and Download		

6.1.4. TEST ROOM ENVIRONMENT

The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

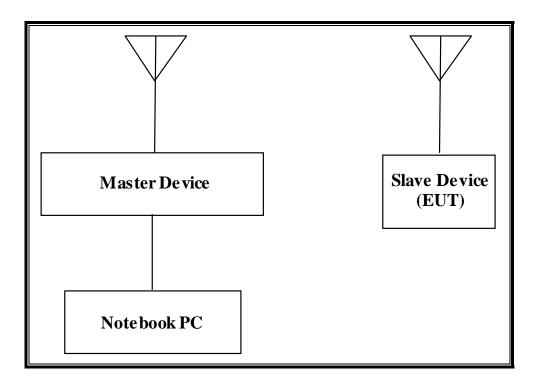
ENVIRONMENT CONDITION

Parameter	Value
Temperature	25.8 °C
Humidity	32 %

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6.1.5. SETUP OF EUT

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST						
Description	Manufacturer	Model	Serial Number	FCC ID		
802.11ac Dual Band Wireless Access	Cisco	AIR-CAP3702E-A-	FTX181570A6	LDK102087		
Point (Master Device)		K9				
P.O.E. Injector (Master Device)	Phihong	POE30U-560(G)	PHI170102N2	DoC		
Notebook PC	Lenovo	Type 4236-B92	PB-HEX04 12/05	DoC		
AC Adapter (Notebook PC)	Lenovo	42T4418	11S42T4418Z1ZGW	DoC		
			G08R90M			

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6.1.6. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 13.16 dBm EIRP in the 5250-5350 MHz band and 12.96 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized is constructed with two antennas and each has respective minimum gains of -4.9 dBi and -3.1 dBi in the 5250-5350 MHz band; -4.7 dBi and -5.4 dBi in the 5470-5725 MHz band. The antennas have respective maximum gains of -4.8 dBi and -2.9 dBi in the 5250-5350 MHz band; -4.2 dBi and -4.1 dBi in the 5470-5725 MHz band.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the Master Device to the Slave Device using iPerf version 2.0.5 software package.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is Android revision 9 build 52.0.A.436.

The software installed in the access point is AP3G2-K9W7-M version 15.3(3)JAB.

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UNIFORM CHANNEL SPREADING

This is requirement not applicable to Slave Devices.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

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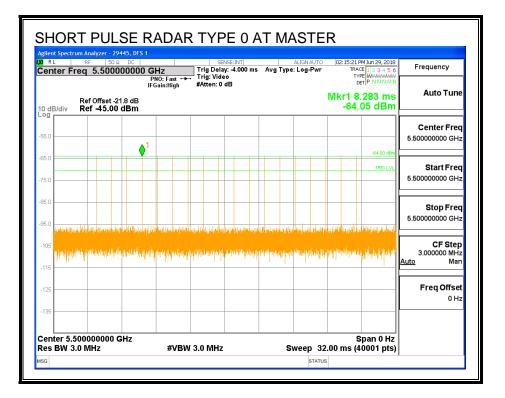
6.2. RESULTS FOR 20 MHz BANDWIDTH

6.2.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

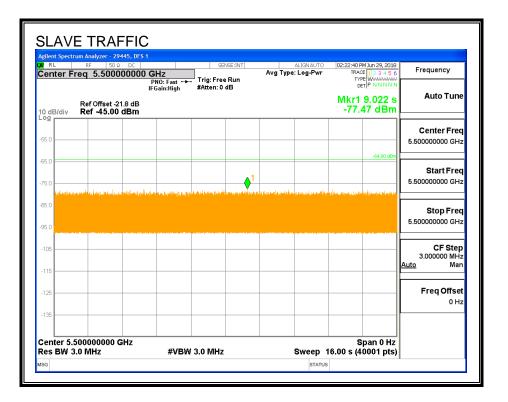
6.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



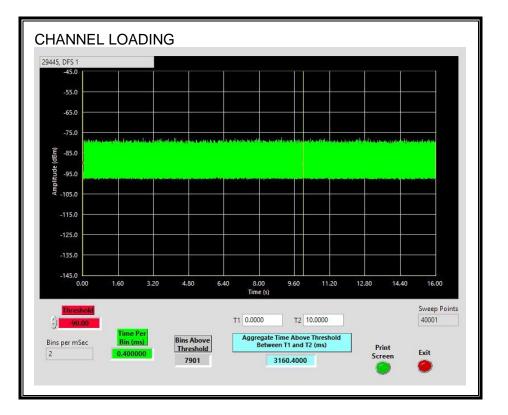
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TRAFFIC



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CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 31.6%

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6.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

6.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.0728	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

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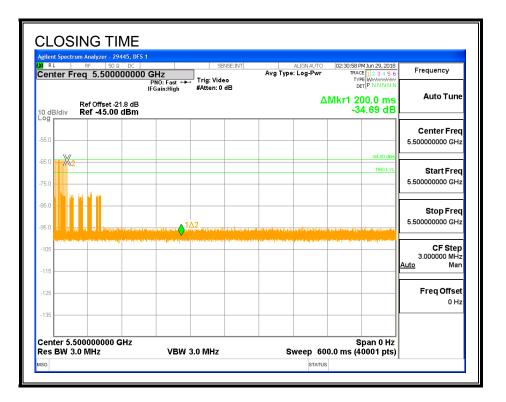
MOVE TIME

enter F	RF 50 Ω req 5.500000	0000 GHz	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	02:27:03 PM Jun 29, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWWWW	Frequency
	Ref Offset -21.8	PNO: Fast ↔ IFGain:Low	Atten: 6 dB	Δ	Mkr1 72.80 ms	Auto Tune
0 dB/div og	Ref -45.00 d	Bm			-14.30 dB	
55.0 55.0	162				-64.00 dBm	Center Freq 5.50000000 GHz
75.0 101 2000						Start Freq
105						5.50000000 GHz
115						Stop Freq
135						5.50000000 GHz
es BW 3			3.0 MHz	•	Span 0 Hz 6.00 s (40001 pts)	CF Step 3.000000 MHz
KR MODE TR 1 Δ2 1 2 F 1	t (∆) t	× 72.80 ms (Δ 1.536 s		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
3 4 5 6						Freq Offset 0 Hz
7 8 9						
9 10 11						

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CHANNEL CLOSING TIME



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AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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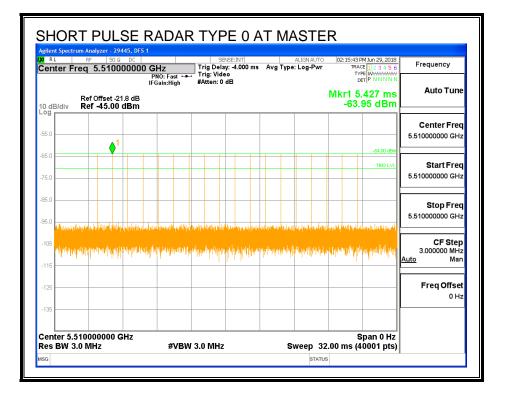
6.3. **RESULTS FOR 40 MHz BANDWIDTH**

6.3.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5510 MHz.

6.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM

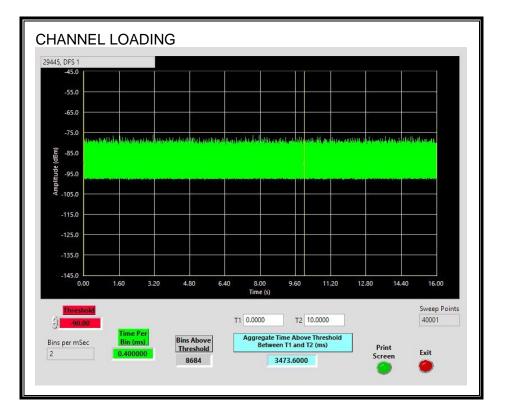


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TRAFFIC

RL RF Center Freq 5		PNO: Fast +++ T	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:34:29 PM Jun 29, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Frequency
0 dB/div Ref)ffset -21.8 dB -45.00 dBm	FGain:High #	Atten: 0 dB		Mkr1 3.151 s -75.99 dBm	Auto Tune
55.0					-64.00 dBm	Center Freq 5.510000000 GHz
5.0 5.0	1 Luba talia Uklashkash	Labidar korathiskadatan	le straktio fato fato fato fato fato	landandada malara a shire in		Start Freq 5.510000000 GHz
85.0 95.0						Stop Freq 5.510000000 GHz
						CF Step
						3.000000 MHz
105						3.000000 MHz

CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 34.73%

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6.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

6.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.0628	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

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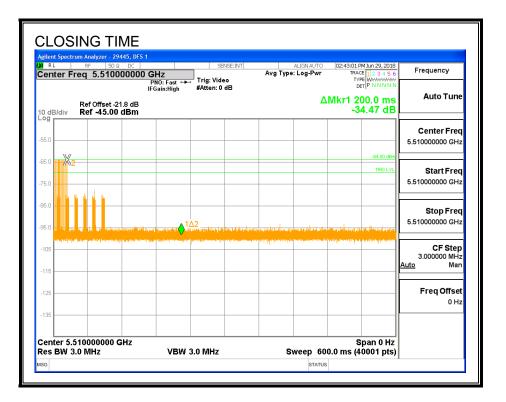
MOVE TIME

RL enter F		Ω DC 000000 GHz PN0: Fast	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:39:38 PM Jun 29, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
	Ref Offset ⊰	IFGain:High	#Atten: 0 dB	۵	Mkr1 62.80 ms	Auto Tune
) dB/div	Ref -45.00				-16.92 dB	
5.0	×2				-64.00 dBm	Center Fred 5.510000000 GH:
5.0 						
5.0						Start Free 5.510000000 GH
115						Stop Fred
135						5.510000000 GH
	510000000 3.0 MHz		W 3.0 MHz	Sweep	Span 0 Hz 16.00 s (40001 pts) FUNCTION VALUE	CF Step 3.000000 MH: Auto Mar
1 Δ2 2 F	t (Δ) t	* 62.80 ms(1.612 s		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
3 4 5 6						Freq Offse 0 Hi
7 8						
9 0						

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CHANNEL CLOSING TIME



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AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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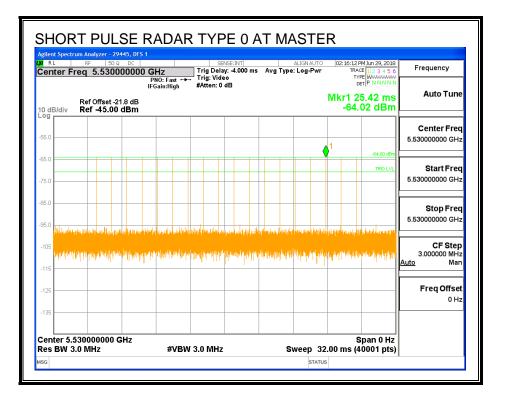
6.4. **RESULTS FOR 80 MHz BANDWIDTH**

6.4.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

6.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



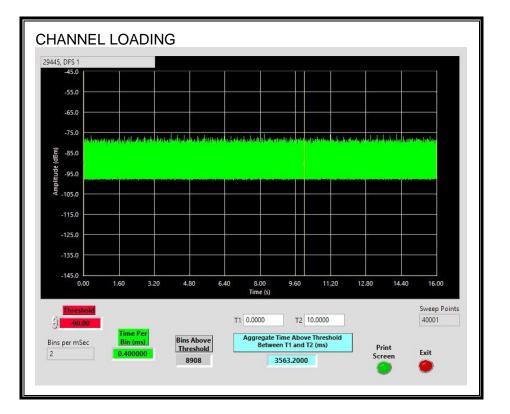
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TRAFFIC

RL RF 50Ω DC Center Freq 5.530000000 G		0 GHz PNO: Fast +++ Trig: Free Run		ALIGN AUTO Avg Type: Log-Pwr	02:45:45 PM Jun 29, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
0 dB/div Ref -		iain:High #4	atten: 0 dB		Mkr1 3.960 s -75.50 dBm	Auto Tune
og 55.0					-64.00 dBm	Center Freq 5.530000000 GHz
75.0	الديانية والمراجعة والمراجعة	a	i ada da ti da mada a	lenergehein of sectors in particular states		Start Freq 5.530000000 GHz
85.0 95.0						Stop Freq 5.53000000 GHz
.105						CF Step 3.000000 MHz Auto Man
125						Freq Offset 0 Hz
-135						

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CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 35.63%

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6.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

6.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.0628	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.0	60

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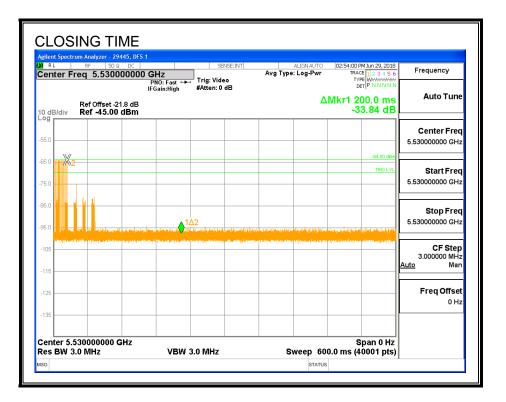
MOVE TIME

RL enter F	RF 50 Ω Freq 5.5300		SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:48:58 PM Jun 29, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWW	Frequency
	Ref Offset -21	IFGain:High .8 dB	#Atten: 0 dB	۵	Mkr1 62.80 ms -19.27 dB	Auto Tune
0 dB/div	Ref -45.00	dBm			-13.27 00	Contor Fro
5.0	2 1Δ2				-64.00 dBm	Center Fred 5.530000000 GHz
5.0 5.0 105						Start Frec 5.53000000 GH;
115 125 135						Stop Frec 5.530000000 GH;
es BW	.530000000 G 3.0 MHz	VBV	/ 3.0 MHz	•	Span 0 Hz 16.00 s (40001 pts)	CF Step 3.000000 MH;
KR XIODE 1 1 Δ2 2 F 3 4	1 t (Δ) 1 t	× 62.80 ms (/ 1.536 s		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar Freq Offse
5 6 7 8 9						0 Hz
0 1						

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CHANNEL CLOSING TIME



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AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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6.4.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

gilent Spectrum Analyzer - 29445, I RL RF 50 Ω DC Center Freq 5.5300000	00 GHz PN0: Fast ↔ Trig:	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	03:31:54 PM Jun 29, 2018 TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N N	
Ref Offset -21.8 d 0 dB/div Ref -45.00 dBr	B	n:0dB	L	∆Mkr1 1.800 ks -30.64 dB	Auto Tune
5.0				-64.00 dBm	Center Free 5.530000000 GH
5.0 <mark>%2</mark>				-64.00 dBm	Start Free 5.530000000 GH
5.0 -			hallansa a tasa a bag di ana di mara	1Δ2	Stop Free 5.530000000 GH
15					CF Step 3.000000 MH <u>Auto</u> Ma
25					Freq Offse 0 H
enter 5.530000000 GHz es BW 3.0 MHz	VBW 3.0 MH	17	Sweep 2.	Span 0 Hz 000 ks (40001 pts)	

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