FCC 47 CFR PART 15 SUBPART E

Report No.: C170328Z03-RP1-5

for

Tablet Computer
Model: A7001
Marketing name: B3-A40
Brand: acer
Test Report Number:

C170328Z03-RP1-5
Issued Date: April 28, 2017

Issued for

Acer Incorporated

8F, 88, Sec 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan, R.O.C

Issued by:

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Revision History

Report No.: C170328Z03-RP1-5

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 28, 2017	Initial Issue	ALL	Sabrina Wang

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1. TEST CERTIFICATION

Product	Tablet Computer
Model	A7001
Marketing name	B3-A40
Brand	acer
Tested	June 21~ November 10, 2016
Applicant Acer Incorporated 8F, 88, Sec 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan, R.O.C	
Manufacturer	Acer Incorporated 8F, 88, Sec 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan, R.O.C

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 15 Subpart E	No non-compliance noted			

We hereby certify that:

Compliance Certification Services (Shenzhen) Inc. tested the above equipment. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407 and IC RSS-247.

The TEST RESULTS of this report relate only to the tested sample identified in this report.

Approved by:

Reviewed by:

Sunday Hu

Supervisor of EMC Dept.

Compliance Certification Services (Shenzhen) Inc.

Ruby Zhang

Supervisor of Report Dept.

Compliance Certification Services (Shenzhen) Inc.

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2. EUT DESCRIPTION

Product	Tablet Computer					
Model Number	A7001					
Marketing name	B3-A40					
Brand	acer					
Model Discrepancy	N/A					
Serial Number	C170328Z03-RP1	-5				
Received Date	March 28, 2017					
Power Supply		2V supplied by the Adar	oter or			
l oner cappiy	DC3.7V supplied I	by the battery				
Adapter Manufacturer /Model No.	Adapter 1: Delta / ADP-10HW A I/P: 100-240Vac, 50/60Hz, 0.4A O/P: 5.35Vdc, 2A Adapter 2: Liteon / PA-1100-25 I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 5.2Vdc, 2.0A					
Battery Manufacturer /Model No.	Battery 1: TCL/ PR-279594N O/P:DC3.7V Battery 2: Huizhou Highpow O/P: DC3.7V	N er Technology Co., LTD	/ HPP279594AB			
		Mode	Frequency Range(MHz)	Number of channel		
		IEEE 802.11a	5180-5240	4		
	LINII Dand I	IEEE 802.11n HT20	5180-5240	4		
	UNII Band I:	IEEE 802.11n HT40	5190-5230	2		
		IEEE 802.11ac 80	5210	1		
		IEEE 802.11a	5260-5320	4		
		IEEE 802.11n HT20	5260-5320	4		
	UNII Band II:	IEEE 802.11n HT40	5270-5310	2		
Operating _		IEEE 802.11ac 80	5290	1		
Frequency Range			5500-5580;			
& Number of		IEEE 802.11a	5660- 5700	8		
Channels			5500-5580;			
	UNII Band III:	IEEE 802.11n HT20	5660- 5700	8		
	UNII Dand III:					
		IEEE 802.11n HT40	5510-5550;	3		
		IEEE 000 44 5 5 00	5670	4		
		IEEE 802.11ac 80	5530	1		
		IEEE 802.11a	5745-5825	5		
	UNII Band IV:	IEEE 802.11n HT20	5745-5825	5		
		IEEE 802.11n HT40	5755-5795	2		
FF 1 1 2		IEEE 802.11ac 80	5775	1		
Modulation Technique OFDM (QPSK, BPSK, 16-QAM, 64-QAM)						

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Transmit Data Rate	IEEE 802.11a mode: 48, 36, 24, 18, 12, 9, 6Mbps IEEE802.11n HT20MHz mode: 6.5,13,19.5,26,39,52,58.5,65Mbps IEEE802.11n HT40MHz mode: 13.5,27,40.5,54,81,108,121.5,135Mbps IEEE802.11ac 80 mode: 29.3,58.5,84.8,117,175.5,234,263.3, 292.5,351,390Mbps
Antenna Specification	FPC Antenna with 3.57Bi gain (Max)
Channels Spacing	IEEE 802.11a, 802.11n HT20 : 20MHz IEEE 802.11n HT40: 40MHz IEEE 802.11ac 80: 80MHz
Temperature Range	0°C ~ +35°C
Hardware Version	A10L2_MB_V2.1
Software Version	Acer AV0N0 B3-A40 RV00RC00 WW GEN1

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

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Operation Frequency:

UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII)					
CHANNEL	MHz				
36	5180				
38	5190				
40	5200				
42	5210				
44	5220				
46	5230				
48	5240				
52	5260				
54	5270				
56	5280				
58	5290				
60	5300				
62	5310				
64	5320				
100	5500				
102	5510				
104	5520				
106	5530				
108	5540				
110	5550				
112	5560				
116	5580				
132	5660				
134	5670				
136	5680				
140	5700				
149	5745				
151	5755				
153	5765				
155	5775				
157	5785				
159	5795				
161	5805				
165	5825				

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for <u>FCC ID: HLZA7001</u> filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and FCC 14-30.

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3. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 Radiated testing was performed at an antenna to EUT distance 3 meters. The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.407 and FCC 14-30, IC RSS-247, Radio testing was performed according to KDB DA 02-2138、KDB 789033 D02、KDB 905462 D02, KDB 905462 D03, KDB 905462 D06;

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3.1 EUT CONFIGURATION

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

3.2 EUT EXERCISE

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E and IC RSS-247.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is positioned at 0.8 m above the ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4, the conducted emission from the EUT is measured in the frequency range between 0.15 MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

The EUT is placed on the turntable, which is 0.8 m above the ground plane. The turntable is then rotated for 360 degrees to determine the proper orientation for the maximum emission level. The EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission level. And, each emission is to be maximized by changing the horizontal and vertical polarization of the receiving antenna. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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² Above 38.6

3.5 DESCRIPTION OF TEST MODES

The EUT is a 1TX configuration without beam forming function.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

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IEEE 802.11n HT 80: 5290 MHz

Channel (5290MHz) with 27Mbps data rate was chosen for the final testing.

IEEE 802.11n HT 80: 5530 MHz

Channel (5530MHz) with 27Mbps data rate was chosen for the final testing.

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4. SETUP OF EQUIPMENT UNDER TEST

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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4.2 MEASUREMENT EQUIPMENT USED

Remark: Each piece of equipment is scheduled for calibration once a year.

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/20/2018
Vector Signal Generator	KEYSIGHT	N5182B	MY53051596	04/10/2018

4.3 DESCRIPTION OF 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.

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	GPON ONU	G-240W-B	N/A	2ADZRG 240WB	Alcatel.Lu cent	N/A	N/A
2	Notebook 1#	B475	WB04861612	DoC	THINKPA D	Unshielded, 1.50m	Unshielded, 1.60m (AC Cable) Unshielded, 1.80m (DC Cable)
3	Notebook 2#	Probook 5310m	N/A	N/A	HP	Unshielded 1.50m	Shielded 0.80m (AC Cable) Shielded 1.20m (DC Cable

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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4.4 MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
RF frequency	+/-1 * 10-5
RF power conducted	+/- 1,5 dB
RF power radiated	+/- 6 dB
Spurious emissions, conducted	+/- 3 dB
Spurious emissions, radiated	+/- 6 dB
Humidity	+/- 5 %
Temperature	+/- 1°C
Time	+/-10 %

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Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

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The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC

Japan VCCI(C-4815, R-4320,T-2317, G-10624)

Canada INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccssz.com

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6. DYNAMIC FREQUENCY SELECTION

LIMIT

According to §15.407 (h) and FCC 06-96 appendix "compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection".

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Table 1: Applicability of DFS requirements prior to use of a channel

rable 1: Applicability of Bi o requirements prior to acc of a charmer						
Dominom out	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			
U-NII Detection Bandwidth	Yes	Not required	Yes			

Table 2: 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	Master Device or Client	Client Without
with multiple bandwidth modes	with Radar Detection	Radar Detection
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 widest
Closing Transmission Time	available	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 each of the bonded 20 MHz channels and the channel center frequency.

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Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the 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.

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

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Table 4: DFS Response Requirement Values

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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 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.

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Table 5 - Short Pulse Radar Test Waveforms

-		Table 5 - Short I ul	se Kadar Test wavelorii		
Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Type	Width	(µsec)		Percentage of	Number
	(µsec)			Successful	of
				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{\left(\frac{1}{360}\right)}{\left(\frac{19 \cdot 10^6}{PRI_{\mu sec}}\right)} \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
	(Radar Types		12 10	80%	120
	D 1 D 1		16 4 14 4 1	1 111 4 4 1	1 20

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Table 6 - Long Pulse Radar Test Waveform

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

Table 7 - Frequency Hopping Radar Test Waveform

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

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DESCRIPTION OF EUT

Overview Of EUT With Respect To §15.407 (H) Requirements

The firmware installed in the EUT during testing was:

Firmware Rev: Acer_AV0N0_B3-A40_RV00RC00_WW_GEN1

The EUT operates over the 5250-5350MHz and 5475-5725MHz range was a slave device associated with the master during these tests and it did not have radar detection + capability.

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The antenna assembly utilized with the EUT has a gain of 3.57 dBi.

The EUT uses two transmitters connected to 50-ohm coaxial antenna ports via a diversity switch. Only two antennas port is connected to the test system since the EUT has two antennas only.

The Slave device associated with the EUT during these tests does not have radar detection +capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20 MHz.

The Master Device is a Alcatel.Lucent 802.11a/b/g Access Point, FCC ID: 2ADZRG240WB.

The rated output power of the Master unit is < 23dBm (EIRP). Therefore the required interference threshold level is -62 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -62 + 2.9 = -59.1dBm.

The calibrated conducted DFS Detection Threshold level is set to -57 dBm. The tested level is lower than the required level hence it provides margin to the limit.

Manufacturer's Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

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TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

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.

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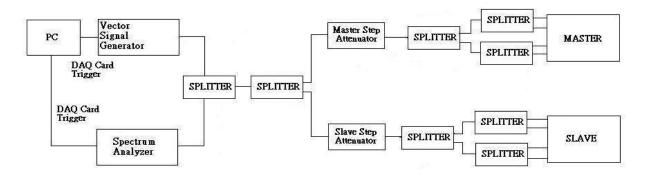
The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

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 FCC 06-96 APPENDIX. 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. The time-domain resolution is 3 msec / bin with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), 50 ohm termination would be removed from the splitter so that connection can be established between splitter and the Master and/or Slave devices.

Conducted Method System Block Diagram



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System Calibration

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of –62 dBm on the spectrum analyzer.

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Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from -62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at -62 dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at -62 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 -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.

Adjustment Of Displayed Traffic Level

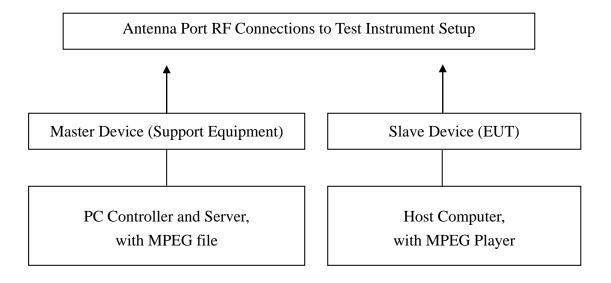
Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

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1Zhen) Inc. Report No.: C170328Z03-RP1-5

Test Setup

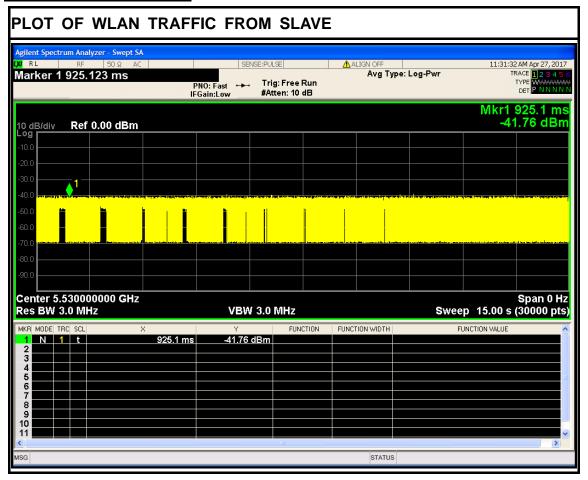


TEST RESULTS

No non-compliance noted

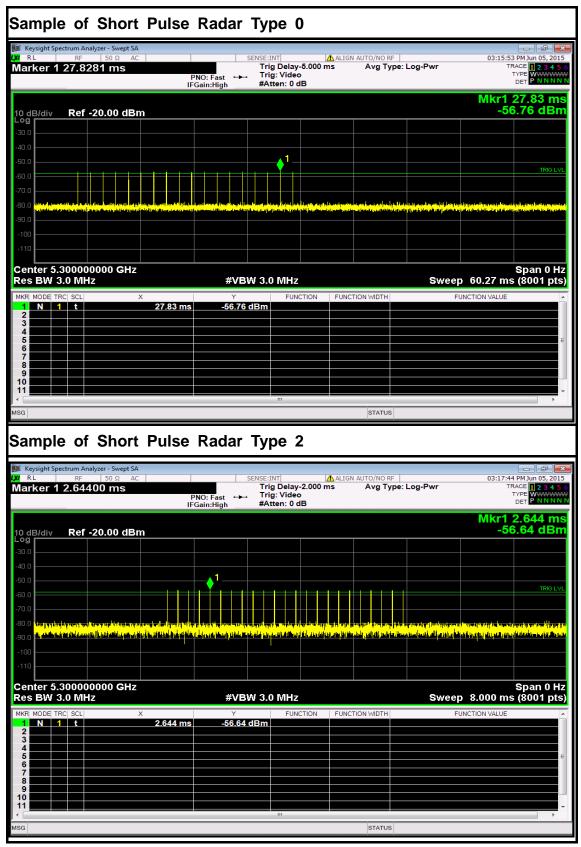
Test plot

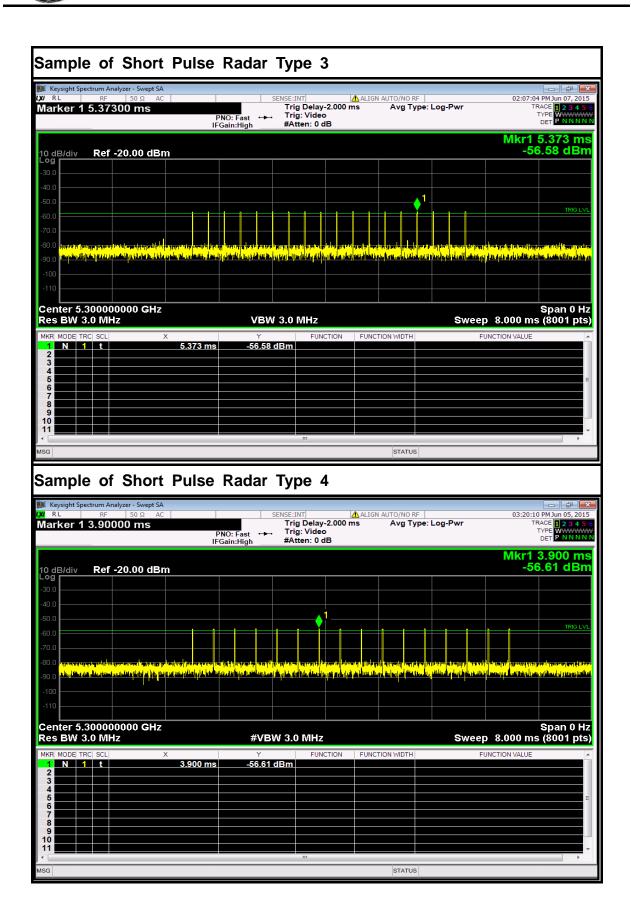
Bandwidth 80 MHz Mode

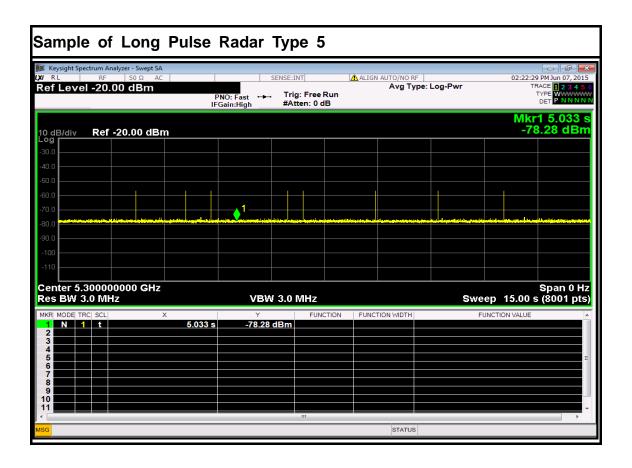


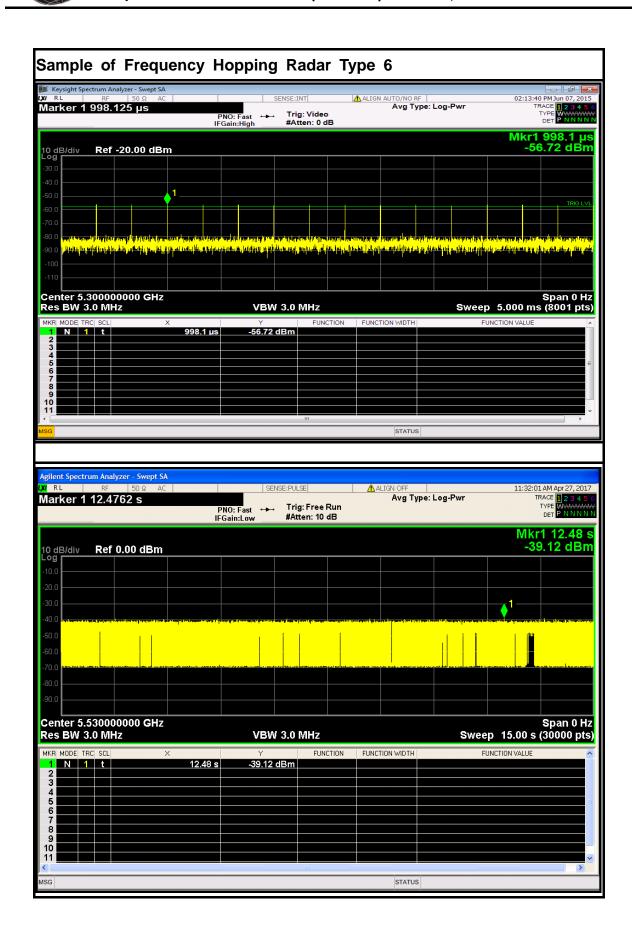
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PLOTS OF RADAR WAVEFORMS









TEST CHANNEL AND METHOD

All tests were performed at a channel center frequency of 5300 MHz utilizing a conducted test method.

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CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME GENERAL 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. Thisdelta 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).

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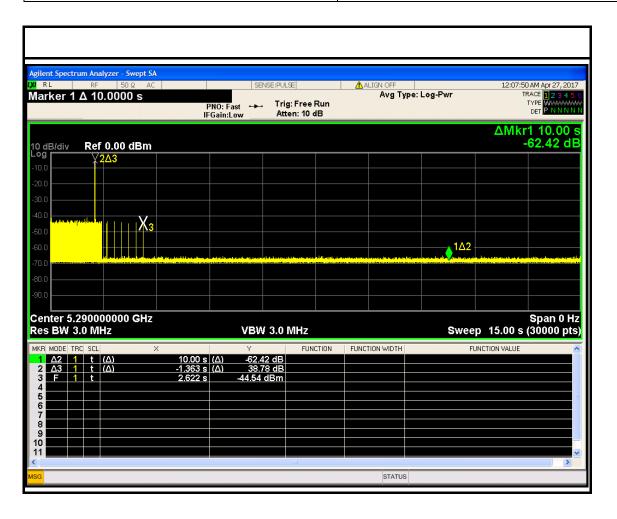
TEST RESULTS

Bandwidth 80 MHz Mode

Type 0 Channel Move Time Results

No non-compliance noted.

Channel Move Time (s)	Limit (s)
1.363	10



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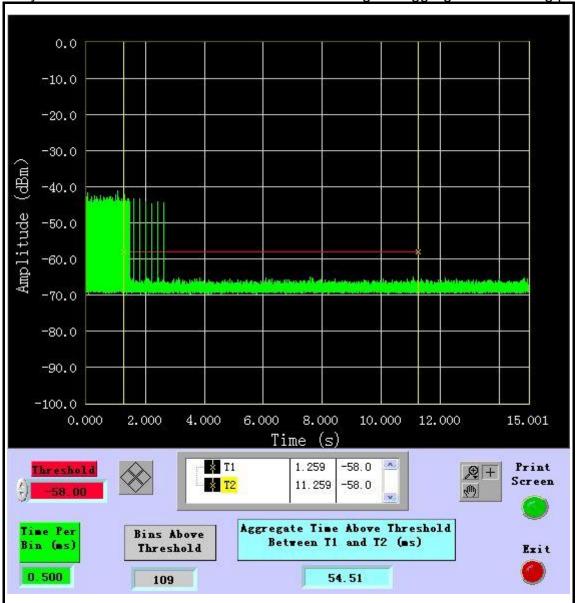
Bandwidth 80 MHz Mode

Type 0 Channel Closing Transmission Time Results

No non-compliance noted.

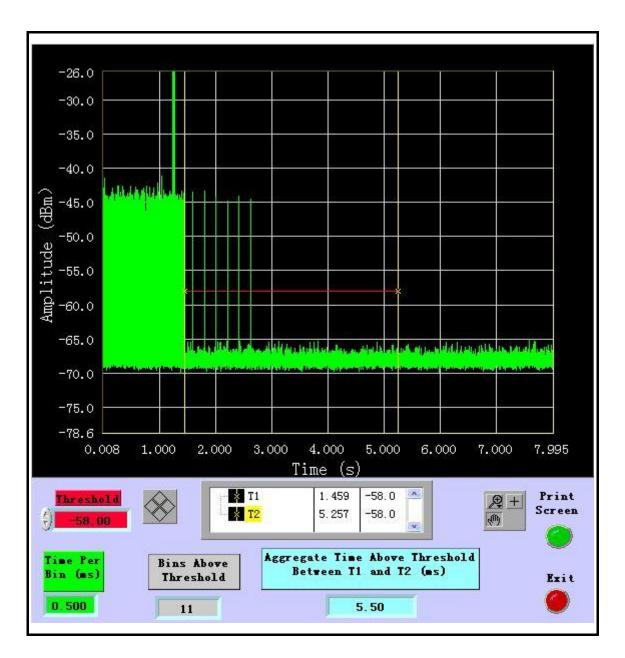
Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
5.50	60	-54.50

Only intermittent transmissions are observed during the aggregate monitoring period.



NOTE: Type 0 Radar signal trigger at T1, channel stop data transmission and move.

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NOTE: Result time begin at T1 which was 200MS behind the radar signal trigger time.

NON-OCCUPANCY PERIOD

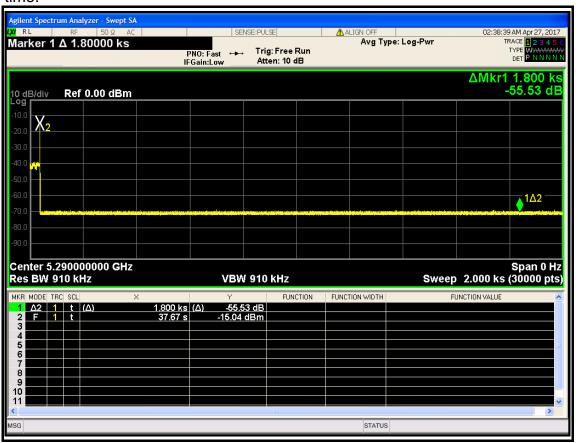
LOW BAND RESULTS / BANDWIDTH 80 MHZ MODE

Type 0 Non-Occupancy Period Test Results

No non-compliance noted.

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

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TEST CHANNEL AND METHOD

All tests were performed at a channel center frequency of 5300 MHz utilizing a conducted test method.

Report No.: C170328Z03-RP1-5

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME GENERAL 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. Thisdelta 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).

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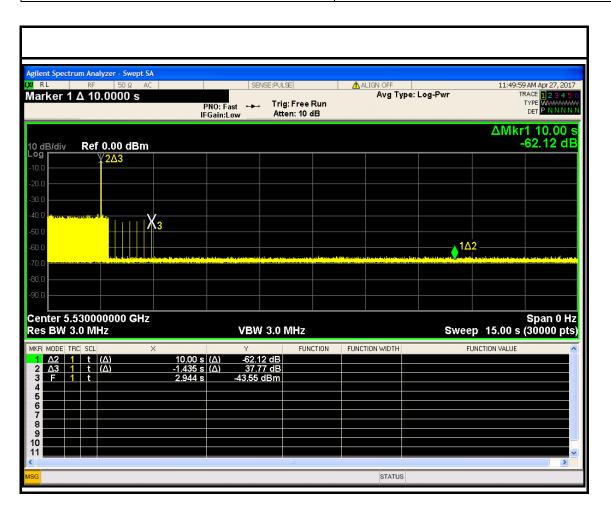
TEST RESULTS

Bandwidth 80 MHz Mode

Type 0 Channel Move Time Results

No non-compliance noted.

Channel Move Time	Limit
(s)	(s)
1.435	10



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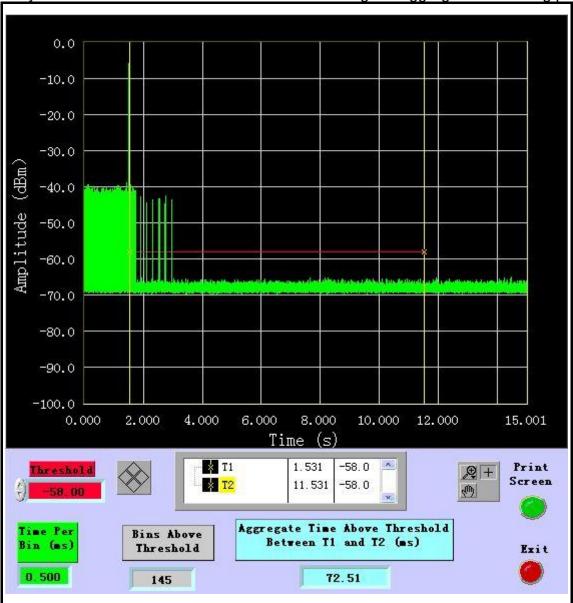
Bandwidth 80 MHz Mode

Type 0 Channel Closing Transmission Time Results

No non-compliance noted.

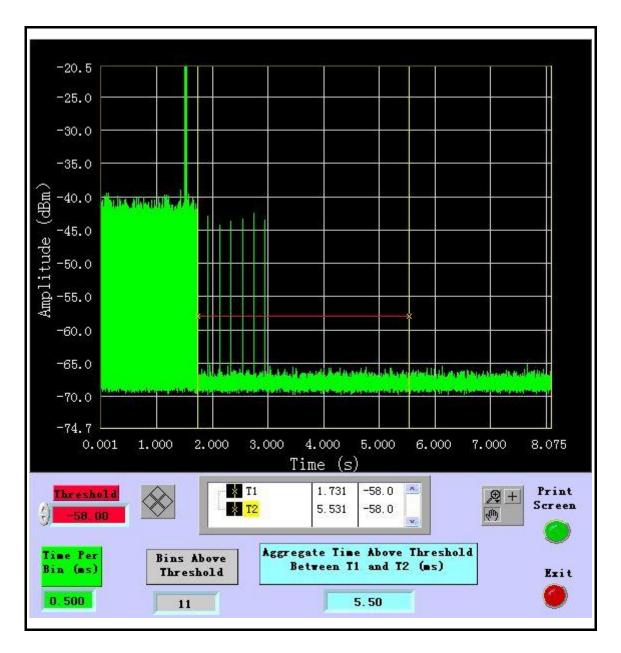
Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
5.50	60	-54.50

Only intermittent transmissions are observed during the aggregate monitoring period.



NOTE: Type 0 Radar signal trigger at T1, channel stop data transmission and move.

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NOTE: Result time begin at T1 which was 200MS behind the radar signal trigger time.

NON-OCCUPANCY PERIOD

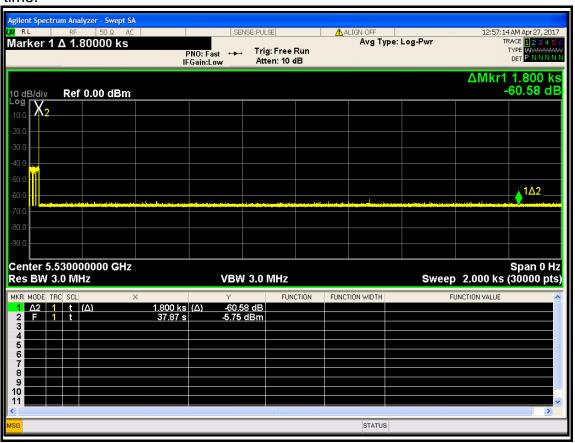
LOW BAND RESULTS / BANDWIDTH 80 MHZ MODE

Type 0 Non-Occupancy Period Test Results

No non-compliance noted.

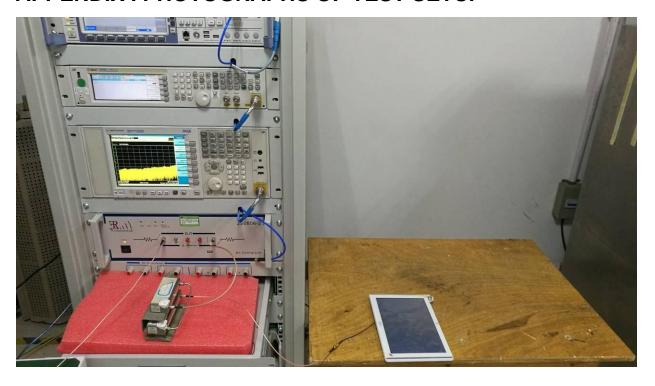
No EUT transmissions were observed on the test channel during the 30 minute observation time.

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APPENDIX I PHOTOGRAPHS OF TEST SETUP



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