FCC Test Report

Product Name	TABLET PC
Model No	PA-301
FCC ID.	2ABTU-PA-301

Applicant	RuggON Corporation	
Address	3F., No.129, Minquan Rd., Xindian Dist., New Taipei Cit	
	23141, Taiwan	

Date of Receipt	Feb. 11, 2014
Issue Date	Mar. 31, 2014
Report No.	1420115R-RFUSP04V00
Report Version	V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issue Date: Mar. 31, 2014 Report No.: 1420115R-RFUSP04V00



Product Name	TABLET PC			
Applicant	RuggON Corporation			
Address	3F., No.129, Minquan Rd., Xindian Dist., New Taipei City 23141,			
	Taiwan			
Manufacturer	Ubiqconn Technology,Inc.			
Model No.	PA-301			
FCC ID.	2ABTU-PA-301			
EUT Rated Voltage	AC 100-240V, 50-60Hz			
EUT Test Voltage	AC 120V/60Hz			
Trade Name	RuggON			
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2012			
	ANSI C63.10: 2009. KDB 558074			
Test Result	Complied			

The test results relate only to the samples tested.

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TABLE OF CONTENTS

De	scription	Page
1.	GENERAL INFORMATION	5
1.1.	EUT Description	5
1.2.	Operational Description	
13	Tested System Details	8
14	Configuration of Tested System	8
1.5	EUT Exercise Software	8
1.6.	Test Facility	
2.	Conducted Emission	
2.1.	Test Equipment	
2.2.	Test Setup	
2.3.	Limits	
2.4.	Test Procedure	
2.5.	Uncertainty	
2.6.	Test Result of Conducted Emission	
3.	Peak Power Output	17
3.1.	Test Equipment	17
3.2.	Test Setup	
3.3.	Limits	
3.4.	Test Procedure	
3.5.	Uncertainty	
3.6.	Test Result of Peak Power Output	
4.	Radiated Emission	23
4.1.	Test Equipment	
4.2.	Test Setup	
4.3.	Limits	
4.4.	Test Procedure	
4.5.	Uncertainty	
4.6.	Test Result of Radiated Emission	
5.	RF antenna conducted test	48
5.1.	Test Equipment	
5.2.	Test Setup	
5.3.	Limits	
5.4.	Test Procedure	
5.5.	Uncertainty	
5.6.	Test Result of RF antenna conducted test	
6.	Band Edge	59
6.1.	Test Equipment	
6.2.	Test Setup	60
6.3.	Limits	61
6.4.	Test Procedure	61
6.5.	Uncertainty	61
6.6.	Test Result of Band Edge	

7.	Occupied Bandwidth	78
7.1.	Test Equipment	
7.2.	Test Setup	
7.3.	Limits	
7.4.	Test Procedure	
7.5.	Uncertainty	
7.6.	Test Result of Occupied Bandwidth	79
8.	Power Density	94
8.1.	Test Equipment	94
8.2.	Test Setup	
8.3.	Limits	
8.4.	Test Procedure	
8.5.	Uncertainty	
8.6.	Test Result of Power Density	95
9.	EMI Reduction Method During Compliance Testing	

- Attachment 1: EUT Test Photographs
- Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	TABLET PC		
Trade Name	RuggON		
Model No.	PA-301		
FCC ID.	2ABTU-PA-301		
Frequency Range	802.11b/g/n-20MHz:2412-2462MHz		
	802.11a/n-20MHz:5745-5825MHz		
Number of Channels	802.11b/g/n-20MHz: 11		
	802.11a/n-20MHz: 5		
Data Speed	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 72.2Mbps		
Channel separation	802.11b/g/n-20MHz: 5 MHz, 802.11a/n-20MHz: 20MHz		
Type of Modulation 802.11b:DSSS, DBPSK, DQPSK, CCK			
	802.11a/g/n: OFDM, BPSK, QPSK, 16QAM, 64QAM		
Antenna Type	PIFA Antenna		
Antenna Gain	Refer to the table "Antenna List"		
Channel Control	Auto		
Power Adapter	MFR: FSP, M/N: FSP065-RE8		
	Input: AC 100-240V, 50-60Hz, 1.5A		
	Output: DC 19V, 3.42A		
	Cable Out: Non-Shielded, 1.8m, with one ferrite core bonded.		

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Ethertronics	5001575	PIFA Antenna	1.4dBi For 2.4GHz
2	Ethertronics	5001577	PIFA Antenna	1.9dBi For 5.725~5825GHz

Note: The antenna of EUT is conform to FCC 15.203

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel Frequency Channel Frequency Channel Frequency Channel Frequency Channel 149: 5745 MHz Channel 153: 5765 MHz Channel 157: 5785 MHz Channel 161: 5805 MHz Channel 165: 5825 MHz

- 1. This device is a TABLET PC, Contains functions and so on WLAN

 Bluetooth

 NFC transceiver, This report for WLAN.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps \$ 802.11g is 6Mbps \$ 802.11n(20M-BW) is 7.2Mbps.
- 4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11a/b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
- 5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode:	Mode 1: Transmit - 802.11b 1Mbps		
	Mode 2: Transmit - 802.11g 6Mbps		
	Mode 3: Transmit - 802.11a 6Mbps		
	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band)		
	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band)		

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Pro	duct	Manufacturer	Model No.	Serial No.	Power Cord
1	USB Mouse	Logitech	M-UV83	HCB54904413	N/A
2	Earphone	Dr.AV	CD-806B	N/A	N/A
3	Keyboard	Dell	SK-8175	MY-0W217F-71619-092-0522-A01	N/A
4	Modem	ACEEX	DM-1414	0102027533	Non-Shielded, 1.8m

Signal Cable Type		Signal cable Description	
A	USB Cable	Non-Shielded, 1.8m	
В	Earphone Cable	Non-Shielded, 1.8m	
С	USB Cable	Non-Shielded, 1.8m, with one ferrite core bonded.	
D	RS-232 Cable	Non-Shielded, 1.8m	
Е	RJ45 Cable	Non-Shielded, 5m	

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute program "Terminal Emulator v1.0.45" on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press "OK" to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : <u>http://www.quietek.com/tw/ctg/cts/accreditations.htm</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <u>http://www.quietek.com/</u>

Site Description:	File on
	Federal Communications Commission
	FCC Engineering Laboratory
	7435 Oakland Mills Road
	Columbia, MD 21046
	Registration Number: 92195
Site Description:	Accredited by TAF Accredited Number: 0914
Site Name: Site Address:	Quietek Corporation No.5-22, Ruishukeng Linkou Dist., New Taipei City 24451, Taiwan, R.O.C. TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : <u>service@quietek.com</u>

FCC Accreditation Number: TW1014

2. Conducted Emission

2.1. Test Equipment

The following test equipment are used during the conducted emission test:

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
Х	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2013	
Х	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2014	Peripherals
Х	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2014	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2014	EUT
Х	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2014	
	No.1 Shielded Room				

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit					
Frequency	Limits				
MHz	QP	AVG			
0.15 - 0.50	66-56	56-46			
0.50-5.0	56	46			
5.0 - 30	60	50			

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product	:	TABLET PC
Test Item	:	Conducted Emission Test
Power Line	:	Line 1
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.158	9.747	41.060	50.807	-14.964	65.771
0.173	9.742	37.560	47.303	-18.040	65.343
0.209	9.739	32.230	41.969	-22.345	64.314
0.240	9.740	27.850	37.590	-25.839	63.429
0.474	9.751	25.000	34.751	-21.992	56.743
3.259	9.860	21.070	30.930	-25.070	56.000
Average					
0.158	9.747	21.400	31.147	-24.624	55.771
0.173	9.742	19.680	29.423	-25.920	55.343
0.209	9.739	23.690	33.429	-20.885	54.314
0.240	9.740	15.180	24.920	-28.509	53.429
0.474	9.751	20.450	30.201	-16.542	46.743
3.259	9.860	15.810	25.670	-20.330	46.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product	: TABLET PC								
Test Item	: Conducted Emission Test								
Power Line	: Line 2								
Test Mode	: Mode 4:	Transmit - 802.1	1n-20BW_7.2Mbps(2	2.4G Band) (2437)	MHz)				
Frequency	Correct	Reading	Measurement	Margin	Limit				
	Factor	Level	Level						
MHz	dB	dBuV	dBuV	dB	dBuV				
Line 2									
Quasi-Peak									
0.154	9.749	39.660	49.408	-16.478	65.886				
0.197	9.749	32.110	41.859	-22.798	64.657				
0.216	9.749	31.120	40.869	-23.245	64.114				
0.470	9.751	24.390	34.141	-22.716	56.857				
3.138	9.860	22.700	32.560	-23.440	56.000				
16.572	10.030	23.940	33.970	-26.030	60.000				
Average									
0.154	9.749	21.530	31.278	-24.608	55.886				
0.197	9.749	26.940	36.689	-17.968	54.657				
0.216	9.749	11.350	21.099	-33.015	54.114				
0.470	9.751	13.230	22.981	-23.876	46.857				
3.138	9.860	16.130	25.990	-20.010	46.000				
16.572	10.030	18.460	28.490	-21.510	50.000				

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product	: TABLET PC								
Test Item	: Conducted	: Conducted Emission Test							
Power Line	: Line 1								
Test Mode	: Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5785MHz)								
Frequency	Correct	Reading	Measurement	Margin	Limit				
	Factor	Level	Level						
MHz	dB	dBuV	dBuV	dB	dBuV				
Line 1									
Quasi-Peak									
0.244	9.790	26.370	36.160	-27.154	63.314				
0.279	9.790	31.440	41.230	-21.084	62.314				
0.298	9.790	30.110	39.900	-21.871	61.771				
0.564	9.790	22.660	32.450	-23.550	56.000				
0.861	9.790	19.550	29.340	-26.660	56.000				
1.142	9.790	15.110	24.900	-31.100	56.000				
Average									
0.244	9.790	21.840	31.630	-21.684	53.314				
0.279	9.790	31.430	41.220	-11.094	52.314				
0.298	9.790	29.990	39.780	-11.991	51.771				
0.564	9.790	16.820	26.610	-19.390	46.000				
0.861	9.790	17.060	26.850	-19.150	46.000				
1.142	9.790	12.520	22.310	-23.690	46.000				

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product	: TABLET PC								
Test Item	: Conducted	: Conducted Emission Test							
Power Line	: Line 2								
Test Mode	: Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5785MHz)								
Frequency	Correct	Reading	Measurement	Margin	Limit				
	Factor	Level	Level						
MHz	dB	dBuV	dBuV	dB	dBuV				
Line 2									
Quasi-Peak									
0.220	9.770	22.530	32.300	-31.700	64.000				
0.283	9.770	34.520	44.290	-17.910	62.200				
0.298	9.770	30.770	40.540	-21.231	61.771				
0.560	9.770	23.080	32.850	-23.150	56.000				
0.857	9.780	21.230	31.010	-24.990	56.000				
2.005	9.790	12.780	22.570	-33.430	56.000				
Average									
0.220	9.770	18.440	28.210	-25.790	54.000				
0.283	9.770	31.690	41.460	-10.740	52.200				
0.298	9.770	28.110	37.880	-13.891	51.771				
0.560	9.770	21.180	30.950	-15.050	46.000				
0.857	9.780	15.190	24.970	-21.030	46.000				
2.005	9.790	6.490	16.280	-29.720	46.000				

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2013
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2013
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2013
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2013
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2013
Note				

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup

Average Power For different Data Rate (Mbps)



Peak Power Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 section 9.1.3 PKPM1 Peak power meter method.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product	:	TABLET PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps

Channel No.	Frequency	Average Power For different Data Rate (Mbps)			Peak Power	Required	Pogult	
Channel No	(MHz)	1	2	5.5	11	1	Limit	Kesult
			Measur	ement Lev	vel (dBm)			
01	2412	13.84	-	-	-	16.03	<30dBm	Pass
06	2437	13.96	13.82	13.74	13.54	16.24	<30dBm	Pass
11	2462	14.00	-	-	-	16.55	<30dBm	Pass

Product	:	TABLET PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps

Fraguana	Fraquancy		Average PowerPeakFor different Data Rate (Mbps)Power									
Channel No	(MHz)	6	9	12	18	24	36	48	54	6	Limit	Result
				Ν	Aeasure	ement I	level (d	lBm)				
01	2412	13.64	-	-	-	-	-	-	-	21.29	<30dBm	Pass
06	2437	13.86	13.77	13.59	13.4	13.34	13.22	13.14	13.06	21.38	<30dBm	Pass
11	2462	13.95	-	-	-	-	-	-	-	21.42	<30dBm	Pass

Product	:	TABLET PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps

Ere even	Fraquanay		F	For diffe	Average erent Da	e Power ata Rate	r e (Mbps	5)		Peak Power	Paquirad	
Channel No	(MHz)	6	9	12	18	24	36	48	54	6	Limit	Result
				Ν	Measure	ement L	level (d	lBm)				
149	5745	13.98								19.74	<30dBm	Pass
157	5785	14.03	13.89	13.71	13.65	13.49	13.38	13.22	13.02	20.01	<30dBm	Pass
165	5825	13.97								20.25	<30dBm	Pass

Product	:	TABLET PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band)

Fraguer	Fraquanay		F	for diffe	Average erent Da	e Powe ata Rate	r e (Mbps	5)		Peak Power	Paguirad	
Channel No	(MHz)	7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	72.2	Limit	Result
				Ν	Aeasure	ement I	level (d	lBm)				
01	2412	13.42	-	-	-	-	-	-	-	21.44	<30dBm	Pass
06	2437	13.83	13.72	13.66	13.54	13.48	13.35	13.29	13.1	21.39	<30dBm	Pass
11	2462	13.91	-	-	-	-	-	-	-	21.26	<30dBm	Pass

Report No.: 1420115R-RFUSP04V00

Product	:	TABLET PC
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band)

Fragu	Fraquancy		Average PowerPeakFor different Data Rate (Mbps)Power							Peak Power	Required	
Channel No	(MHz)	7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	72.2	Limit	Result
				Ν	Aeasure	ement I	level (d	Bm)				
149	5745	13.88			-					19.65	<30dBm	Pass
157	5785	13.57	13.41	13.37	13.22	13.14	13.06	12.86	12.72	19.86	<30dBm	Pass
165	5825	13.79								20.13	<30dBm	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the radiated emission test:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	Х	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2013
	Х	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2013
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2013
	Х	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2013
	Х	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2013
	Х	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2013
	Х	Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2014
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2013
	Х	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2013
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2014
	Χ	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits							
Frequency MHz	Field strength	Measurement distance					
	(microvolts/meter)	(meter)					
0.009-0.490	2400/F(kHz)	300					
0.490-1.705	24000/F(kHz)	30					
1.705-30	30	30					
30-88	100	3					
88-216	150	3					
216-960	200	3					
Above 960	500	3					

Remarks: E field strength $(dBuV/m) = 20 \log E$ field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas. The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

4.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product	:	TABLET PC
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	40.270	43.531	-30.469	74.000
7236.000	10.650	35.410	46.060	-27.940	74.000
9648.000	13.337	38.460	51.796	-22.204	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
4824.000	6.421	40.800	47.221	-26.779	74.000
7236.000	11.495	37.320	48.815	-25.185	74.000
9648.000	13.807	39.720	53.526	-20.474	74.000
Average					
Detector:					

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 1: Transmit - 802.11b 1Mbps (2437 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	39.510	42.547	-31.453	74.000		
7311.000	11.795	36.740	48.534	-25.466	74.000		
9748.000	12.635	37.310	49.945	-24.055	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4874.000	5.812	39.910	45.721	-28.279	74.000		
7311.000	12.630	35.270	47.899	-26.101	74.000		
9748.000	13.126	39.370	52.496	-21.504	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC							
Test Item	: Harmonic Radiated Emission Data							
Test Site	: No.3 OATS							
Test Mode	: Mode 1: Transmit - 802.11b 1Mbps (2462 MHz)							
Frequency	Correct	Reading	Measurement	Margin	Limit			
	Factor	Level	Level					
MHz	dB	dBuV	dBuV/m	dB	dBuV/m			
Horizontal								
Peak Detector:								
4924.000	2.858	38.590	41.447	-32.553	74.000			
7386.000	12.127	35.380	47.508	-26.492	74.000			
9848.000	12.852	37.900	50.753	-23.247	74.000			
Average								
Detector:								
Vertical								
Peak Detector:								
4924.000	5.521	40.180	45.700	-28.300	74.000			
7386.000	13.254	36.520	49.774	-24.226	74.000			
9848.000	13.367	38.240	51.607	-22.393	74.000			
Average								
Detector:								

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 2: Transmit - 802.11g 6Mbps (2412MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4824.000	3.261	38.640	41.901	-32.099	74.000		
7236.000	10.650	36.260	46.910	-27.090	74.000		
9648.000	13.337	36.270	49.606	-24.394	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4824.000	6.421	37.380	43.801	-30.199	74.000		
7236.000	11.495	36.300	47.795	-26.205	74.000		
9648.000	13.807	36.200	50.006	-23.994	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OA	TS					
Test Mode	: Mode 2: Transmit - 802.11g 6Mbps (2437 MHz)						
_	_						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4874.000	3.038	38.900	41.937	-32.063	74.000		
7311.000	11.795	36.600	48.394	-25.606	74.000		
9748.000	12.635	36.420	49.055	-24.945	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4874.000	5.812	37.170	42.981	-31.019	74.000		
7311.000	12.630	36.930	49.559	-24.441	74.000		
9748.000	13.126	36.740	49.866	-24.134	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 2: Transmit - 802.11g 6Mbps (2462 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4924.000	2.858	38.520	41.377	-32.623	74.000		
7386.000	12.127	36.200	48.328	-25.672	74.000		
9848.000	12.852	36.280	49.133	-24.867	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4924.000	5.521	37.560	43.080	-30.920	74.000		
7386.000	13.254	36.840	50.094	-23.906	74.000		
9848.000	13.367	36.840	50.207	-23.793	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 3: Transmit - 802.11a 6Mbps (5745 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
11490.000	17.106	35.130	52.237	-21.763	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
11490.000	18.034	34.780	52.815	-21.185	74.000		

Average

Detector:

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OA	ATS					
Test Mode	: Mode 3	: Transmit - 802.1	1a 6Mbps (5785 MHz	z)			
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
11570.000	16.809	35.440	52.249	-21.751	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
11570.000	17.698	35.340	53.038	-20.962	74.000		

Average

Detector:

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 3: Transmit - 802.11a 6Mbps (5825 MHz)						
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
11650.000	16.158	35.060	51.218	-22.782	74.000		
Average							
Detector:							
Vertical							
Dool: Dotootor							
reak Delector:							
11650.000	17.274	35.490	52.765	-21.235	74.000		

Average

Detector:

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OATS						
Test Mode	: Mode 4: Tr	ansmit - 802.11	n-20BW_7.2Mbps(2	4G Band) (2412M	Hz)		
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4824.000	3.261	37.990	41.251	-32.749	74.000		
7236.000	10.650	36.690	47.340	-26.660	74.000		
9648.000	13.337	36.870	50.206	-23.794	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4824.000	6.421	38.290	44.711	-29.289	74.000		
7236.000	11.495	36.430	47.925	-26.075	74.000		
9648.000	13.807	37.360	51.166	-22.834	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
| Product | : TABLET PC | | | | | |
|-----------------------|-----------------------------------|------------------|-------------------|------------------|--------|--|
| Test Item | : Harmonic Radiated Emission Data | | | | | |
| Test Site | : No.3 OA | ATS | | | | |
| Test Mode | : Mode 4: | Transmit - 802.1 | 1n-20BW_7.2Mbps(2 | 2.4G Band) (2437 | ' MHz) | |
| Frequency | Correct | Reading | Measurement | Margin | Limit | |
| | Factor | Level | Level | 6 | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m | |
| Horizontal | | | | | | |
| Peak Detector: | | | | | | |
| 4874.000 | 3.038 | 38.400 | 41.437 | -32.563 | 74.000 | |
| 7311.000 | 11.795 | 36.540 | 48.334 | -25.666 | 74.000 | |
| 9748.000 | 12.635 | 37.530 | 50.165 | -23.835 | 74.000 | |
| Average | | | | | | |
| Detector: | | | | | | |
| | | | | | | |
| Vertical | | | | | | |
| Peak Detector: | | | | | | |
| 4874.000 | 5.812 | 37.610 | 43.421 | -30.579 | 74.000 | |
| 7311.000 | 12.630 | 36.710 | 49.339 | -24.661 | 74.000 | |
| 9748.000 | 13.126 | 37.960 | 51.086 | -22.914 | 74.000 | |
| Average | | | | | | |
| Detector: | | | | | | |
| | | | | | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC						
Test Item	: Harmonic Radiated Emission Data						
Test Site	: No.3 OA	: No.3 OATS					
Test Mode	: Mode 4: '	Transmit - 802.1	1n-20BW_7.2Mbps(2	2.4G Band) (2462	MHz)		
Frequency	Correct	Reading	Measurement	Margin	Limit		
	Factor	Level	Level				
MHz	dB	dBuV	dBuV/m	dB	dBuV/m		
Horizontal							
Peak Detector:							
4924.000	2.858	38.630	41.487	-32.513	74.000		
7386.000	12.127	36.880	49.008	-24.992	74.000		
9848.000	12.852	36.950	49.803	-24.197	74.000		
Average							
Detector:							
Vertical							
Peak Detector:							
4924.000	5.521	38.120	43.640	-30.360	74.000		
7386.000	13.254	36.200	49.454	-24.546	74.000		
9848.000	13.367	36.950	50.317	-23.683	74.000		
Average							
Detector:							

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC					
Test Item	: Harmon	: Harmonic Radiated Emission Data				
Test Site	: No.3 OA	ATS				
Test Mode	: Mode 5:	Transmit - 802.1	1n-20BW_7.2Mbps(5	5G Band) (5745M	IHz)	
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
Peak Detector:						
11490.000	17.106	35.310	52.417	-21.583	74.000	
Average						
Detector:						
Vertical						
Peak Detector:						
11490.000	18.034	35.900	53.935	-20.065	74.000	

Average

Detector:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

MHz)
Limit
dBuV/m
74.000
74.000
•

Average

Detector:

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLE	Г РС			
Test Item	: Harmonic Radiated Emission Data				
Test Site	: No.3 OA	ATS			
Test Mode	: Mode 5:	Transmit - 802.1	1n-20BW_7.2Mbps(5	5G Band) (5825 N	MHz)
	_				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
11650.000	16.158	34.870	51.028	-22.972	74.000
Average					
Detector:					
Vertical					
Peak Detector:					
11650.000	17.274	35.160	52.435	-21.565	74.000

Average

Detector:

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- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product	: TABLET PC				
Test Item	: General Radiated Emission Data				
Test Site	: No.3 OA	ATS			
Test Mode	: Mode 1:	Transmit - 802.1	1b 1Mbps (2437 MHz	z)	
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
342.340	-3.272	45.677	42.405	-3.595	46.000
400.540	-2.276	40.324	38.048	-7.952	46.000
516.940	1.654	34.864	36.518	-9.482	46.000
604.240	4.770	24.506	29.276	-16.724	46.000
908.820	6.029	25.474	31.503	-14.497	46.000
961.200	6.450	27.352	33.802	-20.198	54.000
Vertical					
237.580	-8.970	41.964	32.994	-13.006	46.000
435.460	-8.800	34.465	25.665	-20.335	46.000
515.000	-1.090	25.385	24.295	-21.705	46.000
627.520	-3.120	33.221	30.101	-15.899	46.000
707.060	0.089	29.004	29.093	-16.907	46.000
804.060	3.587	28.318	31.905	-14.095	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

Product	: TABLET PC					
Test Item	: General Radiated Emission Data					
Test Site	: No.3 OATS					
Test Mode	: Mode 2:	Transmit - 802.1	lg 6Mbps (2437 MHz	z)		
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level			
MHz	dB	dBuV	dBuV/m	dB	dBuV/m	
Horizontal						
130.880	-10.159	38.696	28.537	-14.963	43.500	
462.620	1.172	29.243	30.415	-15.585	46.000	
532.460	1.957	38.541	40.498	-5.502	46.000	
621.700	2.170	29.083	31.254	-14.746	46.000	
662.440	2.084	34.981	37.065	-8.935	46.000	
840.920	5.191	28.571	33.762	-12.238	46.000	
Vertical						
414.120	-7.902	48.840	40.938	-5.062	46.000	
441.280	-8.494	46.001	37.507	-8.493	46.000	
532.460	-0.563	38.541	37.978	-8.022	46.000	
662.440	-2.026	34.981	32.955	-13.045	46.000	
716.760	-0.653	40.192	39.539	-6.461	46.000	
961.200	7.260	27.182	34.442	-19.558	54.000	

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

Product	: TABLE	Т РС			
Test Item	: General Radiated Emission Data				
Test Site	: No.3 OA	ATS			
Test Mode	: Mode 3:	Transmit - 802.1	1a 6Mbps (5785MHz)	
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
311.300	-4.026	43.022	38.996	-7.004	46.000
431.580	-2.099	40.656	38.557	-7.443	46.000
530.520	1.873	34.202	36.075	-9.925	46.000
608.120	4.384	34.558	38.942	-7.058	46.000
755.560	4.321	27.901	32.222	-13.778	46.000
871.960	5.175	26.678	31.853	-14.147	46.000
Vertical					
410.240	-6.616	44.923	38.307	-7.693	46.000
447.100	-7.746	44.598	36.852	-9.148	46.000
579.020	-5.706	40.564	34.858	-11.142	46.000
679.900	1.000	34.746	35.746	-10.254	46.000
743.920	1.246	36.929	38.175	-7.825	46.000
860.320	0.666	37.953	38.619	-7.381	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

Product	: TABLE	T PC			
Test Item	: General Radiated Emission Data				
Test Site	: No.3 O	ATS			
Test Mode	: Mode 4	: Transmit - 802.1	1n-20BW 7.2Mbps(2	2.4G Band) (2437	' MHz)
			_ 1 <		,
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
348.160	-2.268	34.994	32.726	-13.274	46.000
493.660	-0.536	28.214	27.678	-18.322	46.000
660.500	2.097	25.595	27.692	-18.308	46.000
821.520	5.961	23.725	29.686	-16.314	46.000
908.820	6.029	25.519	31.548	-14.452	46.000
961.200	6.450	27.090	33.540	-20.460	54.000
Vertical					
222.060	-8.789	36.902	28.113	-17.887	46.000
493.660	-2.396	28.214	25.818	-20.182	46.000
540.220	0.121	23.680	23.801	-22.199	46.000
745.860	1.828	24.748	26.576	-19.424	46.000
806.000	3.908	23.878	27.786	-18.214	46.000
924.340	5.550	23.413	28.963	-17.037	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

Product	: TABLET	T PC			
Test Item	: General Radiated Emission Data				
Test Site	: No.3 OA	TS			
Test Mode	: Mode 5:	Transmit - 802.1	1n-20BW 7.2Mbps(5	5G Band) (5785 N	/Hz)
			_ 1 <		,
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
305.480	-2.929	38.491	35.562	-10.438	46.000
396.660	-2.296	38.915	36.619	-9.381	46.000
480.080	-0.329	30.702	30.373	-15.627	46.000
567.380	1.664	33.549	35.213	-10.787	46.000
850.620	5.982	36.735	42.717	-3.283	46.000
918.520	6.396	32.240	38.636	-7.364	46.000
Vertical					
229.820	-8.512	33.809	25.297	-20.703	46.000
381.140	-1.558	28.281	26.723	-19.277	46.000
515.000	-1.090	40.776	39.686	-6.314	46.000
569.320	-5.483	39.332	33.849	-12.151	46.000
757.500	2.921	37.266	40.187	-5.813	46.000
926.280	5.821	26.264	32.085	-13.915	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.

5. **RF** antenna conducted test

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Х	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2013
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2013
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2013

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Uncertainty

The measurement uncertainty Conducted is defined as \pm 1.27dB

5.6. Test Result of RF antenna conducted test

Product	:	TABLET PC
Test Item	:	RF antenna conducted test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps

Channel 01 (2412MHz) 30MHz-25GHz



Channel 06 (2437MHz) 30MHz -25GHz







Product	:	TABLET PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps

Channel 01 (2412MHz) 30MHz -25GH



Channel 06 (2437MHz) 30MHz -25GHz



Channel 11 (2462MHz) 30MHz -25GHz



Product	:	TABLET PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps

Channel 149 (5745MHz) 30MHz -40GHz





Channel 157 (5785MHz) 30MHz -40GHz



Channel 165 (5825MHz) 30MHz -40GHz

		Channel 01 (2412MHz) 30MHz -25GHz
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band)
Test Site	:	No.3 OATS
Test Item	:	RF Antenna Conducted Spurious
Product	:	TABLET PC



Channel 06 (2437MHz) 30MHz -25GHz







Product	:	TABLET PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band)

Channel 149 (5745MHz) 30MHz -40GHz





Channel 157 (5785MHz) 30MHz -40GHz





Channel 165 (5825MHz) 30MHz -40GHz





6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2013
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2013
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr.,2013

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	Bilog Antenna		Schaffner Chase	CBL6112B/2673	Sep., 2013
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2013
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2013
		Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2013
	Х	Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2013
		Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2014
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2013
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2013
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2014
	X	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	Χ	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note: 1. All instruments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

6.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

6.6. **Test Result of Band Edge**

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Horizontal):

	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2385.800	31.493	27.202	58.695	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	25.458	56.967	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	29.211	60.772			Pass
01 (Peak)	2413.000	31.646	74.622	106.268			Pass
01 (Average)	2386.400	31.495	16.461	47.956	74.00	54.00	Pass
01 (Average)	2390.000	31.509	14.877	46.386	74.00	54.00	Pass
01 (Average)	2400.000	31.561	21.003	52.564			Pass
01 (Average)	2412.800	31.645	70.784	102.428			Pass

Figure Channel 01:



Figure Channel 01:

Horizontal (Average)



All readings above 1GHz are performed with peak and/or average measurements as necessary. Note:1.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto. 3.
- "*", means this data is the worst emission level. 4.
- 5. Measurement Level = Reading Level + Correct Factor.
- The average measurement was not performed when the peak measured data under the limit of average 6. detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Vertical):

Channel No	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Result
Chamber 100.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2387.800	30.925	27.606	58.531	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	26.006	56.921	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	28.383	59.295			Pass
01 (Peak)	2413.000	30.956	72.640	103.596			Pass
01 (Average)	2386.800	30.930	15.579	46.509	74.00	54.00	Pass
01 (Average)	2390.000	30.915	14.530	45.445	74.00	54.00	Pass
01 (Average)	2400.000	30.912	18.986	49.898			Pass
01 (Average)	2412.800	30.955	68.705	99.660			Pass

Figure Channel 01:

Vertical (Peak)



Figure Channel 01:

Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Result
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
11 (Peak)	2462.900	32.026	73.540	105.566			Pass
11 (Peak)	2483.500	32.182	24.917	57.099	74.00	54.00	Pass
11 (Peak)	2488.700	32.222	27.019	59.240	74.00	54.00	Pass
11 (Average)	2461.300	32.014	69.766	101.780			Pass
11 (Average)	2483.500	32.182	14.397	46.579	74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)





Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2462.900	31.296	68.827	100.123			Pass
11 (Peak)	2483.500	31.435	24.879	56.314	74.00	54.00	Pass
11 (Average)	2461.300	31.286	64.948	96.234			Pass
11 (Average)	2483.500	31.435	14.031	45.466	74.00	54.00	Pass





Vertical (Average)



Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Horizontal):

Channal No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2390.000	31.509	39.119	70.628	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	53.687	85.248			Pass
01 (Peak)	2415.400	31.664	77.202	108.866			Pass
01(Average)	2390.000	31.509	17.897	49.406	74.00	54.00	Pass
01(Average)	2400.000	31.561	31.277	62.838			Pass
01(Average)	2414.400	31.657	66.007	97.664			Pass





Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2390.000	30.915	36.930	67.845	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	50.580	81.492			Pass
01 (Peak)	2415.400	30.972	75.351	106.323			Pass
01 (Average)	2390.000	30.915	17.077	47.992	74.00	54.00	Pass
01 (Average)	2400.000	30.912	28.874	59.786			Pass
01 (Average)	2414.600	30.967	64.006	94.973			Pass

Figure Channel 01:

Vertical (Peak)





Vertical (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2464.900	32.042	76.136	108.177			Pass
11 (Peak)	2483.500	32.182	39.803	71.985	74.00	54.00	Pass
11 (Average)	2463.700	32.032	64.720	96.752			Pass
11 (Average)	2483.500	32.182	18.453	50.635	74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)









Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.

- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps

RF Radiated Measurement (Vertical):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2465.100	31.312	71.643	102.954			Pass
11 (Peak)	2483.500	31.435	36.402	67.837	74.00	54.00	Pass
11 (Average)	2464.700	31.308	60.113	91.422			Pass
11 (Average)	2483.500	31.435	16.477	47.912	74.00	54.00	Pass

Figure Channel 11:

Vertical (Peak)





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW 7.2Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel Ma	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2388.600	31.504	36.361	67.865	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	35.025	66.534	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	54.374	85.935			Pass
01 (Peak)	2412.200	31.640	76.024	107.664			Pass
01 (Average)	2390.000	31.509	17.767	49.276	74.00	54.00	Pass
01 (Average)	2400.000	31.561	30.383	61.944			Pass
01 (Average)	2414.800	31.660	64.595	96.255			Pass





Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01 (Peak)	2389.600	30.917	34.464	65.381	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	33.787	64.702	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	51.878	82.790			Pass
01 (Peak)	2412.000	30.950	73.980	104.929			Pass
01 (Average)	2390.000	30.915	17.014	47.929	74.00	54.00	Pass
01 (Average)	2400.000	30.912	28.039	58.951			Pass
01 (Average)	2414.400	30.966	62.670	93.636			Pass

Figure Channel 01:

Vertical (Peak)





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Result
		(uD)	(uDuv)	(uDu v/III)	(uDu v/m)	(ubu v/iii)	
11 (Peak)	2463.500	32.031	74.173	106.204			Pass
11 (Peak)	2483.500	32.182	35.911	68.093	74.00	54.00	Pass
11 (Average)	2464.500	32.038	63.307	95.345			Pass
11 (Average)	2483.500	32.182	17.795	49.977	74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band)

RF Radiated Measurement (Vertical):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11 (Peak)	2462.500	31.294	69.766	101.060			
11 (Peak)	2483.500	31.435	32.698	64.133	74.00	54.00	Pass
11 (Average)	2464.500	31.307	58.868	90.175			
11 (Average)	2483.500	31.435	16.150	47.585	74.00	54.00	Pass

Figure Channel 11:

Vertical (Peak)









- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
| P | roduct | : | TABLET PC | | | | | | | | |
|----|-------------|-------|----------------------------------|---------------|--------|--|--|--|--|--|--|
| T | Test Item : | | Band Edge | | | | | | | | |
| T | est Site | : | No.3 OATS | | | | | | | | |
| Te | est Mode | : | Mode 3: Transmit - 802.11a 6Mbps | | | | | | | | |
| | Test Freq | uency | Measurement Level | Limit | Result | | | | | | |
| | (MHz | z) | Δ (dB) | Δ (dB) | | | | | | | |
| | 5745 | 5 | 26.88 | >20 | PASS | | | | | | |

Agilen	it Spe	ctrur	n An	alyzer - Swo	ept SA								0
Cen	ter	Fre	R⊧	5.72500	00000 G	Hz	s	ENSE:INT	Avg	Type: Log-Pwr	12:18:36 TRA	M Mar 13, 2014 1 2 3 4 5 6	Frequency
					F	PNO: Fast Gain:Low	, Trig: Fro , #Atten: 3	e Run 30 dB			TY		
										M	kr2 5.72	5 0 GHz	Auto Tune
10 di	B/div	,	Ref	f 20.00 d	dBm						-30.	25 dBm	
10.0													Conton From
0.00													5 725000000 GHz
-10.0									- Lylon	and a second			5.725000000 GH2
-20.0									- Aller	h	Nag.	-16.63 dBm	
-20.0								2 ather and	particular and a second se		and the particular		Start Freq
-40.0							L. L.W	1				W.	5.675000000 GHz
-50.0					a bandar		pulliplication and					and when the	
-60.0	Astay	MAR	Al-mai	an a	And a start of a start								Stop Freq
-70.0													5.775000000 GHz
-70.0													
Cen	ter	5.72	250	0 GHz							Span 1	00.0 MHz	CF Step
#Re	s Bl	W 1	00	KHZ		#V	BW 1.0 MH	Z		#Sweep	500 ms (1001 pts)	10.000000 MHz
MKR	MODE	TRC	SCL		×	5 CUy	Y 2 27 /	I. D. m.	FUNCTION	FUNCTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Man
2	N	1	f		5.725	0 GHz	-30.25 c	Bm					
3													Freq Offset
5													0 Hz
7													
8													
10													
12													
MSG										STATU	s		<u>[</u>

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps

Test Frequency	Measurement Level	Limit	Result
(MHz)	Δ (dB)	Δ (dB)	
5825	43.63	>20	PASS

Agilent Spectrur	n Analyzer - Swept S	٨							
Center Fre	RF 50 Ω A0 eq 5.8500000	00 GHz	SENSE	EINT	Avg Type	ALIGNAUTO : Log-Pwr	12:33:48 P TRAC	M Mar 13, 2014	Frequency
		PNO: Fast G IFGain:Low	#Atten: 30 d	iB		Mk	r2 5.850		Auto Tune
10 dB/div Log 10.0	Ref 20.00 dBn	n1					-40.3		Center Freq 5.85000000 GHz
-10.0 -20.0 -30.0 -40.0	Relation of the second s	han Markey	And the state of t	2				-17.04 dBm	Start Freq 5.80000000 GHz
-50.0				hef tolomon i year	اومیلادو می دوند. او	-Yhlerson agent	hare and a second	ኯዹፙቔቔቔ፞ኯዸዺኯጚኯ	Stop Freq 5.90000000 GHz
Center 5.83 #Res BW 1	5000 GHz 00 kHz	#VB\	W 1.0 MHz	FUNC	TION FUN	#Sweep	Span 1 500 ms (00.0 MHz 1001 pts) NVALUE	CF Step 10.000000 MHz <u>Auto</u> Man
1 N 1 2 N 1 3 4 5 5 6 7	f	5.850 0 GHz	-46.59 dBn						Freq Offset 0 Hz
8 9 10 11 12									
MSG						STATUS	5		

Product	:	TABLET PC
Test Item	:	Band Edge
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band)

Test Frequency	Measurement Level	Limit	Result
(MHz)	Δ (dB)	Δ (dB)	
5745	30.54	>20	PASS

Agilent Spect	trum Analy:	zer - Swep	ot SA								
Center F	_R ⊧ req 5.7	50 Ω 725000	AC 0000 GH	z	SE		Avg 1	ALIGNAUTO Fype: Log-Pwr	12:43:48 TRA	PM Mar 13, 2014 CE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 2	0.00 d	PI IFG Bm	NO: Fast Sain:Low	#Atten: 3	0 dB		M	kr2 5.72 -32	5 0 GHz 62 dBm	Auto Tune
10.00							pulue later	Land and the second sec	1		Center Freq 5.725000000 GHz
-20.0						2 Martine Mart	170		Varihard and and	-17.92 dBm	Start Freq 5.675000000 GHz
-50.0	ميتعينعاله وهلته	hada ta an	hinn Bydraetra	in the second second	parate de la rem					""" "	Stop Freq 5.775000000 GHz
Center 5 #Res BW	.72500 (100 kH	GHz Iz	~	#VE	3W 1.0 MHz		INCTION	#Swee	Span 500 ms	100.0 MHz (1001 pts)	CF Step 10.000000 MHz Auto Man
1 N 2 N 3 4 5 6 7 8 9 10			5.746 3	3 GHz D GHz	2.08 d -32.62 d	Bm Bm					Freq Offset
11 12 MSG								STAT	us		

P	roduct	:	TABLET PC							
T	est Item	:	Band Edge							
T	est Site	:	No.3 OATS							
Te	est Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2	Mbps(5G Band)						
	Test Freq	uency	Measurement Level	Limit	Result					
	(MH	z)	Δ (dB)	Δ (dB)						
	582:	5	43.30	>20	PASS					

Agiler	nt Spe	ctrur	n An	alyzer - Swe	pt SA								0
	tor	Ere	RF	50 Ω		1-	SE	VSE:INT	Δνα		01:02:48	PM Mar 13, 2014	Frequency
Cer	iter	FIE	; pe	5.65000		1Z NO:East (Trig: Fre	Run		Type. Log-I wi	TY		
					IFO	Gain:Low	#Atten: 3) dB			C	et P N N N N N	
										M	kr2 5.85	0 0 GHz	Auto Tune
10 4	n		Dof		ID m						-45	88 dBm	
Log	Bially	<u> </u>	Rei	20.00 0							+0.		
10.0									_				Center Fred
0.00					ΙΥ.								Center Freq
0.00				الماليم	to be all a start with	Marting							5.850000000 GHz
-10.0			-		- ·				-			17.42 dBm	
-20.0			+	- d			_				_	-17.42 UDH	
20.0			ke	nh ^{ann}		and	hullen.						Start Freq
-30.0	d.	deat					and April and	2					5.80000000 GHz
-40.0	March 1	<u>.</u>					a stalle						
-50.0	F-		_					MANINA	Color States to				
-60.0										and an	and the state of the second second	glidelowingustering	Stop Freq
70.0													5.90000000 GHz
-70.0													
Con	tor	5 0/	500				1				Enan 1		
#Do	c Bi	J.O. M 1	000	0 GHZ 647		#\/D				#Swoor	500 me	1001 nte	CF Step
#NC	3 01		00	KLIZ		#¥L				#awee	5 300 115	Toor proj	10.000000 MHz
MKR	MODE	TRC	SCL		×		Y	FL	JNCTION	FUNCTION WIDTI	H FUNCTI	IN VALUE	<u>Auto</u> Man
1	N	1	f		5.827	5 GHz	2.58 d	3m					
2	N	1	г		5.850	UGHZ	-45.88 di	sm					Eron Offect
4													Frequise
5													0 Hz
6													
8													
9													
10													
12													
MSG										STAT	US		

7. Occupied Bandwidth

7.1. Test Equipment

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2013
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2013
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2013

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009; tested according to DTS test procedure of ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 1-5% of the emission bandwidth, VBW \geq 3*RBW

7.5. Uncertainty

± 150Hz

7.6. Test Result of Occupied Bandwidth

MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	9650	>500	Pass

Figure Channel 1:

Agilen	it Spec	strum	Analyzer	r - Swe	pt SA													
Cen	ter	Fre	r⊧ q 2.41	50 Ω 200	AC 0000	GH	z		Tria: E	SENSE	INT	Avg	Туре	ALIGNAUTO E: Log-Pwr	09:40:5: TR	AM Mar 13, 2014 ACE 1 2 3 4 5 6		Frequency
10 d	Pro: Fast Low IFGain:Low							#Atten	: 30 d	B			Mk	r2 2.407 -1	7 40 GHz .27 dBm		Auto Tune	
Log 10.0 0.00 -10.0							. M	w	2	M	1 Www.	3				0.29 dBm	:	Center Freq 2.412000000 GHz
-20.0 -30.0 -40.0			٠	y jud	an and	ļ	p and a						Vly Vy	- Maria	w (m		:	Start Freq 2.387000000 GHz
-50.0 -60.0 -70.0	- Arring	Karagara Anda	AP	-¥	ų	44										and whether a		Stop Freq 2.437000000 GHz
Cen #Re	ter 2 s BV	2.41: N 10	200 GI 10 kHz	Hz	×		#\	/BW	300 ki	lz	FUI	NCTION	FUN	Sweep	Span 4.80 ms	50.00 MHz (1001 pts)	Au	CF Step 5.000000 MHz to Man
1 2 3 4 5 6	N N N	1 1 1	f f f		2.41 2.40 2.41	2 50 17 40 7 05	I GHZ I GHZ I GHZ		6.29 -1.27 0.22	dBm dBm dBm								Freq Offset 0 Hz
7 8 9 10 11 12																		
MSG														STATU	IS			

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	9600	>500	Pass

Figure Channel 6:

Agile	nt Spe	ctrun	n An	alyzer - Sw	ept SA								
l,XI R		Ţ	RF	50 Ω	AC		SE	NSE:INT		ALIGN AUTO	09:48:28 A	M Mar 13, 2014	Frequency
Cer	nter	Fre	; р ;	2.43700	<u>10000 GF</u>	lz	Trig: Fre	- Run	Avg Typ	e: Log-Pwr	TRAC TYI)Е 1 2 3 4 5 6 РF М МИЛИМИ	requeries
					۲	NO: Fast 니 Gain:Low	#Atten: 3	0 dB			DE	ET P N N N N N	
—	—	—	—							Mkr	0 0 430	45 GU7	Auto Tune
			-		•=					WINI	2 2.452	20 dBm	
10 a Log	Bidiv	<u> </u>	Rei	20.00 0	JBm			<u> </u>			<u></u>		
10.0	1		\downarrow										Conter Fred
							. march	Maria	ຸ≬ິ			0.40 dBm	Center Freq
0.00						~	(Jacobian)	¥ ····	M.				2.437000000 GHz
-10.0	,		+		+	- Mar	√	+	-Www	+	+		
-20.0			+		_			<u> </u>	<u> </u>				
20.0						~~~			1	¥			Start Freq
-30.0						7				N.			2.412000000 GHz
-40.0	·		+	And fut	tora 1	4	+	+		the pose	and me		
-50.0			+	Y www.	<u>↓ </u>			 		how	V Vinos	A	
-60.0	1	-Jach	<i>*</i>		~							maker	Stop Freq
-00.0					Τ		Τ	Γ		Τ	Т		2.462000000 GHz
-70.0			+		+	+	+	+	+	+	1	 	
	-tar	245						<u> </u>			Enan 5		
HD.	ner /	2.4J 1M 1	00			#\/B'	M 300 kHz			Curpon	5 pan J 4 90 me (4004 ntc)	CF Step
#n.	<u></u>	<u>~</u>				#¥64	/V 300 KH2			oweeh	4.00 115 (1001 proj	5.000000 MHz
MKR	MODE	TRO	SCL		×		Y	FU	INCTION FL	INCTION WIDTH	FUNCTIO	N VALUE	<u>Auto</u> Man
1	N		f	—	2.438 0	0 GHz	6.39 dF	<u>Bm</u>					
2 3		$\left \frac{1}{1} \right $	- <u>F</u>		2.432 4	5 GHz	<u>0.39 ar</u> -0.10 d	<u>3m</u> Rm					Eron Offect
4	<u> </u>		ċ	<u> </u>									Flequise
5		\square	=			<u> </u>		\neg					0 HZ
6		\vdash		<u> </u>									
8		\square		<u> </u>									
9		\square	\square								<u> </u>		
10		⊢-+	<u> </u>	<u> </u>				<u> </u>					
12	\rightarrow	\vdash		<u> </u>									
		_	_								1		
MSG										STATUS	5		

:	TABLET PC
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 1: Transmit - 802.11b 1Mbps (2462MHz)
	:

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	9150	>500	Pass

Figure Channel 11:

Agilent Spe	ectrum A	nalyzer - Swe	ept SA								
Center	Freq	50 Ω 2.46200	AC	lz	SEN		Avg Type	ALIGNAUTO : Log-Pwr	09:54:50 A TRAC TYI	M Mar 13, 2014	Frequency
				NU: Fast 🕒 Gain:Low	#Atten: 30) dB		Mkr	2 2.457	45 GHz	Auto Tune
10 dB/div Log 10.0 0.00	v Re	f 20.00 c	1Bm	John	2-	1 Maria	3			0.36 dBm	Center Freq 2.462000000 GHz
-20.0		and for	from for	and the second s				La ser and the series of the s	uq mun		Start Freq 2.437000000 GHz
-50.0	"hallilanne"	¢. V	*o/						4 · · · · ·	Storgy & A.M.	Stop Freq 2.487000000 GHz
Center #Res B	2.4620 W 100	00 GHz kHz	×	#VBW	/ 300 kHz	FUNC	TION FUN	Sweep	Span 5 4.80 ms (0.00 MHz 1001 pts) NVALUE	CF Step 5.000000 MHz <u>Auto</u> Man
1 N 2 N 3 N 4 5 6 7 8 9 10 11	1 f 1 f 1 f		2.461 5 2.457 4 2.466 6	0 GHz 5 GHz 0 GHz	6.36 dE 0.26 dE -0.42 dE	3m 3m 3m 					Freq Offset 0 Hz
12 MSG								STATUS	5		

:	TABLET PC
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 2: Transmit - 802.11g 6Mbps (2412MHz)
	:

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	15150	>500	Pass

Figure Channel 1:

Agile	nt Spe	ctrur	n Ana	alyzer - Swe	ept SA									
LXI R Cer	L nter	Fre	RF ∋q 2	50 ຊ 2.41200	AC	łz	Triat	SENSE:II	NT	Avg Typ	ALIGNAUTO	10:02:52 / TRAC	M Mar 13, 2014	Frequency
10 d	PN0: Fast							: 30 dB	n /		Mkr	2 2.404 -1.	45 GHz 84 dBm	Auto Tune
Log 10.0 0.00 -10.0			-) 1 1	3			-1.82.dBm	Center Freq 2.412000000 GHz
-20.0 -30.0 -40.0	1	Willi		Allow Manager	Muni-and and			<u> </u>			bearly alproph	MM Muhaliman	- Party Mar Hilly M	Start Freq 2.387000000 GHz
-50.0 -60.0 -70.0														Stop Freq 2.437000000 GHz
Cer #Re	nter : s B1	2.41 N 1	120 00	0 GHz kHz	X	#VB	W 300 ki	1z	FUNC	TION FI	Sweep	Span 5 4.80 ms (0.00 MHz 1001 pts) NVALUE	CF Step 5.000000 MHz <u>Auto</u> Man
1 3 4 5 6 7 8 9 10 11 12					2.413 2 2.404 4 2.419 6	5 GHz 5 GHz 0 GHz	<u>4.18</u> <u>-1.84</u> <u>-2.95</u>							Freq Offset 0 Hz
MSG											STATUS	5		

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	15200	>500	Pass

Figure Channel 6:

Agile	nt Spe	ctrum	і Апа	lyzer - Swe	ept SA														
LXI R	L	- Fra	RF	50 Ω	AC		-		SE	NSE:INT		Ανα Τι	۵ مرب		10:10:	23 Al	Mar 13, 201	4	Frequency
Cer	iter	rie	<u>q</u> 2	.43700	0000	PN IFG	IZ 10: Fast jain:Lov		Trig: Fre #Atten: 3	e Run 0 dB			, , , ,	Logini		TYP DE		Ň	
10 d	B/div	,	Ref	20.00 c	iBm									Mkr	2 2.42	29 4.2	40 GH2 29 dBm		Auto Tune
Log 10.0 0.00 -10.0							•	2	<u>and walkan</u>		barlbard	wheel 3					-1.79 dBr		Center Freq 2.437000000 GHz
-20.0 -30.0 -40.0		www	the set	Aprovin Mar	wanter and a state of the state	Nrw ^a ah	www.						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Lynny Mary B	monor	1/m	Annor		Start Freq 2.412000000 GHz
-50.0 -60.0 -70.0																			Stop Freq 2.462000000 GHz
Cer #Re	nter s B	2.43 W 10	700 00 I) GHz (Hz			#V	/BW	300 kHz					Sweep	Spa 4.80 m	n 50 IS (1	0.00 MH: 1001 pts		CF Step 5.000000 MHz
MKR 1 2	MODE N N	TRC 1 1	f f		× 2.4 2.4	38 25 29 40	5 GHz) GHz		4.21 d -4.29 d	Bm Bm	FUNCI	TION	FUNC	CTION WIDTH	FUN	ICTION	N VALUE		<u>Auto</u> Man
3 4 5 6	N	1	f		2.4	44 60) GHz		-3.35 dl	Bm									Freq Offset 0 Hz
7 8 9																			
11 12														07.171					

:	TABLET PC
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 2: Transmit - 802.11g 6Mbps (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	15200	>500	Pass

Figure Channel 11:

MRL RL RF SOR AC SENSEINT ALIGNAUTO 100.694.9M Mrd 13, 2014 Frequency Center Freq 2.46200000 GHz Trig: Free Run Avg Type: Log-Pwr Trid: [2, 3, 4, 5, 0] Frequency PNO: Fast Trig: Free Run Mkr2 2.454 40 GHz Auto Tune 10 dB/div Ref 20.00 dBm -4.50 dBm Auto Tune 100 2 -4.50 dBm -4.50 dBm Center Freq 100 2 -4.50 dBm -4.50 dBm Center Freq 2.462000000 GHz 2 -4.50 dBm -4.50 dBm Center Freq 2.462000000 GHz 2.462000000 GHz -4.50 dBm -4.50 dBm Center Freq 2.47000000 GHz 2.462000000 GHz -4.50 dBm -4.50 dBm -4.50 dBm 2.00 -0.0 -0.0 -0.0 -1.68.467 -4.50 dBm 2.00 -0.0 -0.0 -0.0 -0.0 -0.0 -1.68.467 2.00 -0.0 -0.0 -0.0 -0.0 -1.68.467 -1.68.467 2.00	Agilent	t Spec	ctrum	n Ana	alyzer - Sv	vept S	Å											
PN0: Fast Ing. rise Nill Mkr2 2.454 40 GHz Auto Tune 10 dB/div Ref 20.00 dBm -4.50 dBm -4.50 dBm Center Freq 10 dB/div Ref 20.00 dBm -4.50 dBm -4.50 dBm Center Freq 20 dBm -4.50 dBm -4.50 dBm -4.50 dBm Center Freq 20 dBm -4.50 dBm -4.50 dBm -4.50 dBm Center Freq 2.46200000 GHz -4.50 dBm -4.50 dBm Center Freq 2.46200000 GHz 2.00 -4.50 dBm -4.50 dBm -4.50 dBm Center Freq 2.43700000 GHz 2.00 -4.50 dBm -4.50 dBm -4.50 dBm -4.50 dBm CF Step 2.00 -4.50 dBm -4.80 ms (1001 pts) -4.50 dBm -4.80 ms (1001 pts) -4.50 dBm 10 1 1 2.463 25 GHz -4.50 dBm -4.50 dBm -4.50 dBm -4.50 dBm -4.50 dBm -4.50 dBm Freq Offset 2 N 1 f 2.463 26 GHz -2.26 dBm -4.50 dBm -4	Cent	ter	Fre	RF q 2	50 £ 2.4620	Ω A0 000	00 G	Hz		SE Tria: Era		NT	Avg	Гуре	ALIGNAUTO : Log-Pwr	10:16:49 TRA	AM Mar 13, 2014 CE 1 2 3 4 5 6	Frequency
100 1	40.45					dBr		PNO: FGain	Fast 🕞 :Low	#Atten: 3	30 dB				Mkr	2 2.454 _4	40 GHz	Auto Tune
20.0 30.0 10.0 <th< td=""><td>10.00 10.00 -10.0</td><td>5/017</td><td></td><td>Rei</td><td>20.00</td><td></td><td></td><td></td><td>2 Martine</td><td></td><td>Ŷ</td><td>) 1 1</td><td>- Start</td><td>3</td><td></td><td></td><td>-1.68.dBm</td><td>Center Freq 2.462000000 GHz</td></th<>	10.00 10.00 -10.0	5/017		Rei	20.00				2 Martine		Ŷ) 1 1	- Start	3			-1.68.dBm	Center Freq 2.462000000 GHz
-60.0	-20.0 -30.0 -40.0	lu altre	~~~M	p: 4.4	HANNIN	rijaz ^{iw} ni	parter Margar	North Contract	·					X 40	Wine of Dorse	and the second second	Chille of Marine and Chille	Start Freq 2.437000000 GHz
Center 2.46200 GHz Span 50.00 MHz CF Step 5.00000 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.80 ms (1001 pts) L CF Step 5.00000 MHz Made T 1 f 2.463 25 GHz 4.32 dBm Function worth Auto Man 1 N 1 f 2.463 25 GHz 4.32 dBm Auto Man 2 N 1 f 2.469 60 GHz -2.26 dBm Auto Man 3 N 1 f 2.469 60 GHz -2.26 dBm Auto Man 6 0 Hz 0 Hz<	-50.0 + -60.0 + -70.0 +																	Stop Freq 2.487000000 GHz
1 N 1 f 2.463 25 GHz 4.32 dBm 2 N 1 f 2.463 40 GHz 4.50 dBm Freq Offset 3 N 1 f 2.469 60 GHz -2.26 dBm OHz 4 - - - - - OHz 6 - - - - - 0 Hz 7 - - - - - - 0 Hz 9 - - - - - - - - 0 Hz 10 - <td>Cent #Res</td> <td>ter 2 s BV</td> <td>2.46 N 1</td> <td>20 00</td> <td>0 GHz kHz</td> <td></td> <td>×</td> <td></td> <td>#VBW</td> <td>/ 300 kHz</td> <td>z</td> <td>FUNC</td> <td>TION</td> <td>FUN</td> <td>Sweep</td> <td>Span : 4.80 ms</td> <td>50.00 MHz (1001 pts)</td> <td>CF Step 5.000000 MHz Auto Man</td>	Cent #Res	ter 2 s BV	2.46 N 1	20 00	0 GHz kHz		×		#VBW	/ 300 kHz	z	FUNC	TION	FUN	Sweep	Span : 4.80 ms	50.00 MHz (1001 pts)	CF Step 5.000000 MHz Auto Man
/ / 8	1 2 3 4 5 6	N N N	1 1 1	f f			2.463 2.454 2.469	25 GI 40 GI 60 GI	Hz Hz Hz	4.32 d -4.50 d -2.26 d	IBm IBm IBm							Freq Offset
	7 8 9 10 11 12																	

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	15200	>500	Pass

Figure Channel 149:

Agilent Spectrum Analy	rzer - Swept SA					
Center Freq 5.	50 Ω AC 745000000 GHz	SENSE:IN	T Avg Type	ALIGNAUTO : : Log-Pwr	12:18:03 PM Mar 13, 2014 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 2	PNO: Fas IFGain:Lo 20.00 dBm	W #Atten: 30 dB		Mkr2 5	5.737 40 GHz -3.60 dBm	Auto Tune
Log 10.0 0.00		2	1 And and a state of the state		2.33 dBm	Center Freq 5.745000000 GHz
-20.0 -30.0 -40.0	MUNINALAN AND AND AND AND AND AND AND AND AND A			httone think with	Warden and and the former	Start Freq 5.720000000 GHz
-60.0						Stop Freq 5.770000000 GHz
Center 5.74500 #Res BW 100 kH	GHz Hz #\	/BW 300 kHz		Sweep 4.8	Span 50.00 MHz 0 ms (1001 pts)	CF Step 5.000000 MHz Auto Man
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6 7 7 8 8 8	5.747 50 GHz 5.737 40 GHz 5.752 60 GHz	3.67 dBm -3.60 dBm -4.53 dBm				Freq Offset 0 Hz
9 10 11 12 MSG				STATUS		

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15200	>500	Pass

Figure Channel 157:

Agiler	nt Spe	ctrum	Ana	lyzer - S	wept	SA																	
(X/R Cer	L nter	Fre	_R ⊧ q5	.7850	Ω)000	≅C 000 (GH	Z]	SEM	VSE:INT		Avg	Туре	ALIGNAU : Log-P	ito 'wr	12:2	26:29 F TRAC	M Mar	13, 201 3 4 5 (4	Frequency
							PN IFG	0: Fas ain:Lo	t⊊ w	Trig #Att	i: Free ien: 30	e Run 0 dB				N	lkr:	2 5.7	777	40	GHz		Auto Tune
10 d Log	B/div	F	Ref	20.00	dB	m				1									-5.	03	dBm	╢	
10.0 0.00 -10.0								,	2	Ladred	$\sum_{i=1}^{1}$	pardra.	Paulin	ant.	3						-3.78 dBn		Center Freq 5.785000000 GHz
-20.0 -30.0 -40.0		an water	Lach	www.culwar	pla c	Mmr.N*	᠕ᠰ᠕								No.	PHUNPUN	<u> </u>	han tan tan tan tan tan tan tan tan tan t	vilwy	h _{flee}	the land		Start Freq 5.760000000 GHz
-50.0 -60.0 -70.0	/m/l/>**																						Stop Freq 5.81000000 GHz
Cen #Re	ter : s B\	5.78 N 10	50()0 k) GHz (Hz				#\	/BW	300	kHz			1		Swee	ep 4	Sp 4.80 (an 5 ms (0.00 100) MHz 1 pts		CF Step 5.000000 MHz
1 2 3 4 5 6	N N N N	TRC 1 1	f f f			× 5.78 5.77 5.79	3 75 7 40 2 60	GHz GHz GHz		¥ 2. -5. -4.	22 dE 03 dE 02 dE	3m 3m 3m	FUNC	TION	FUN	ICTION W	DTH	FL	JNCTIC	IN VAL	UE		Auto Man Freq Offset 0 Hz
7 8 9 10 11 12																							
MSG																ST	TATUS						

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	15150	>500	Pass

Figure Channel 165:

Agilen	it Spec	ctrum	n Ana	ılyzer - Sw	/ept S/	A														
Cen	ter	Fre	RF q (50 s 5.8250	2 AC	00 GI	Ηz		SE	ENSE:IN	IT	Avg	/ Type	LIGN AUTO		12:33:15 TRA	PM Ma	r 13, 2014 2 3 4 5 6	4	Frequency
10 dE	Bidiv		Ref	20.00	dBn	P IF	NO: Fa Gain:Lo	st ⊂, ow	7 Trig: Fre #Atten: 3	e Rur 10 dB	1			Mk	r2 5	5.817 -4.	45 .82	GHz		Auto Tune
Log 10.0 0.00 -10.0				20.00			ľ	2	- male or owned	a parglan		with	3					-2.88 dBrr		Center Freq 5.825000000 GHz
-20.0 -30.0 -40.0	or di	-	(V ^{Far} l)	www.	hat	montanta	NUMPER N						~~0	himmung	where a	Willing	Mapon	10-10-10-10-10-10-10-10-10-10-10-10-10-1		Start Freq 5.80000000 GHz
-50.0 -60.0 -70.0																				Stop Freq 5.85000000 GHz
Cen #Res	ter : s BV	5.82 N 10	50 00	0 GHz kHz			#	VBW	/ 300 kHz	2	CLUNC	TION	CUN	Sweep	۶ 4.8	Span : 0 ms	50.0 (100	0 MHz 01 pts)		CF Step 5.000000 MHz
1 2 3 4 5 6 7	N N N	1 1 1	f f			5.827 5 5.817 4 5.832 6	0 GHz 5 GHz 0 GHz		3.12 d -4.82 d -4.87 d	Bm Bm Bm	FURC							-02		Freq Offset 0 Hz
8 9 10 11 12 MSG														STAT	US					

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	•	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	15200	>500	Pass

Figure Channel 1:

Agilent Spectrum Analyze	er - Swept SA				
Center Freq 2.4	50 Ω AC 12000000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	02:47:08 PM Mar 13, 2014 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast IFGain:Low	#Atten: 30 dB	Mkr	2 2.404 40 GHz	Auto Tune
10 dB/div Ref 20 Log 10.0).00 dBm	1	3	-4.40 GBIII	Center Freq 2.412000000 GHz
-20.0 -30.0 -40.0	Up the West and the second of the second sec		han har	Wheels with the advance	Start Freq 2.387000000 GHz
-60.0					Stop Freq 2.437000000 GHz
Center 2.41200 G #Res BW 100 kH	GHz z #VE	SW 300 kHz	Sweep	Span 50.00 MHz 4.80 ms (1001 pts)	CF Step 5.000000 MHz
MKR MOD2 TEC SCI 1 N 1 f 2 N 1 f 3 N 1 f 4	2.413 25 GHz 2.404 40 GHz 2.419 60 GHz	Y FUN 3.07 dBm -4.43 dBm -5.25 dBm		FUNCTION VALUE	Freq Offset 0 Hz

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	15200	>500	Pass

Figure Channel 6:

Agile	nt Spe	ctrun	n An	alyzer - Swe	pt SA										
געו Cer	L Iter	Fre	RF q 2	50 Ω 2.43700	AC	Ηz		SEM	ISE:INT	Avg	, Type	ALIGN AUTO : Log-Pwr	10:44:33 A TRAC	M Mar 13, 2014 E 1 2 3 4 5 6	Frequency
_			-		P IF	NO: Fast Gain:Low	P	Trig: Free #Atten: 30	eRun)dB			Mkr	™ 2 2.429		Auto Tune
10 d	B/div	,	Ref	f 20.00 d	IBm	1							-5.	03 dBm	
10.0 0.00 -10.0						¢2	السرار			hard and band	3			-2.89 dBm	Center Freq 2.437000000 GHz
-20.0 -30.0 -40.0			40 ⁰ 00	ter collemn	woodenter	bord .					~	and the second	withwasthe	Munahu	Start Freq 2.412000000 GHz
-50.0 -60.0 -70.0		by to a.	-												Stop Freq 2.462000000 GHz
Cer #Re	ter : s Bl	2.43 N 1	370 00	0 GHz kHz	1	#VI	3W :	300 kHz	1			Sweep	Span 5 4.80 ms (0.00 MHz 1001 pts)	CF Step 5.000000 MHz
MX 1 2 3 4 5 6 7 8 9 10 11 12		1 1 1	f f f		× 2.438 3 2.429 4 2.444 6	0 GHz 0 GHz 0 GHz		3.11 dE -5.03 dE -4.17 dE	500 FU 300 300 300 300 400 400 400 400 400 400		FUN		FUNCTIC		Auto Man Freq Offset 0 Hz
MSG												STATUS			

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	15200	>500	Pass

Figure Channel 11:

Agiler	nt Spe	ctrur	n Ana	alyzer - Swe	ept SA								
w Cer	L nter	Fre	RF Pq 2	50 Ω 2 .46200	AC 10000 GH	lz			Avg Typ	ALIGNAUTO e: Log-Pwr	12:08:12 F	M Mar 13, 2014	Frequency
10 d	D/dis	,	Dof	20.00 0	PI IFC	NO: Fast 🕞 Gain:Low	#Atten: 3	0 dB		Mkr	⊇ 2.454 -4.5	40 GHz 96 dBm	Auto Tune
10.0 10.0 0.00 -10.0		, 		20.00 (2 mento	Jup bourses there	1	3			-2.89 dBm	Center Freq 2.462000000 GHz
-20.0 -30.0 -40.0	ANV	to Mark	, who	p. h.Mahur	Materwar					hulwoodly the	Munul any	wy when the	Start Freq 2.437000000 GHz
-50.0 -60.0 -70.0													Stop Freq 2.487000000 GHz
Cen #Re	nter ISB1	2.40 W 1	620 00 501	0 GHz kHz	X	#VBV	V 300 kHz	FUN	ICTION FUI	Sweep	Span 5 4.80 ms (0.00 MHz 1001 pts) NVALUE	CF Step 5.000000 MHz <u>Auto</u> Man
1 3 4 5 6 7 8 9 10 11 12					2,463 2 2,454 4 2,469 6	5 GHz 0 GHz 0 GHz	3.11 di -4.96 di -3.66 di	3m 3m 3m 					Freq Offset 0 Hz
MSG										STATUS	3		

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5745MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745.00	15200	>500	Pass

Figure Channel 149:

Agilent Spe	ctrum An	alyzer - Swe	pt SA									
Center	Freq	50 Ω 5.74500	AC 0000 GH	lz	SEN		Avg Type	ALIGNAUTO E: Log-Pwr	12:43:15 F TRAC	M Mar 13, 2014	Frequency	
	Internation #Atten: 30 dB Det/P NNNNN Mkr2 5.737 40 GHz -5.86 dBm -5.86 dBm											
		1 20.00 u		president		protracification	3			-3:58 dBm	Center Freq 5.745000000 GHz	
-20.0	WINNER	MARCAMINA	MAY WIAP					and the second sec	MUU A-VATILEUVI	White the way	Start Freq 5.720000000 GHz	
-50.0 -60.0 -70.0											Stop Freq 5.770000000 GHz	
Center : #Res B\ MKR MODE	5.7450 W 100	0 GHz kHz	× 5 7 47 5 (#VBW	/ 300 kHz	FUN	CTION FUN	Sweep	Span 5 4.80 ms (0.00 MHz 1001 pts) NVALUE	CF Step 5.000000 MHz <u>Auto</u> Man	
1 N 2 N 3 N 4 5 6 7 8 9 10 11 12	1 r 1 f 1 f		5.747 50 5.737 40 5.752 60) GHz) GHz) GHz 	2.42 dE -5.86 dE -6.08 dE	5m 5m 5m 					Freq Offset 0 Hz	
MSG								STATUS	5			

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5785MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
157	5785.00	15150	>500	Pass

Figure Channel 157:

Agilent Spect	trum Ana	alyzer - Swej	pt SA									
Center F	RF req (50 Ω 5.78500	AC 0000 GH	lz	SEI		Avg Typ	ALIGNAUTO e: Log-Pwr	12:51:10 F TRAC	M Mar 13, 2014	Frequency	
10 dB/div	PHOL Fast (Atten: 30 dB) المحتاج المحت المحتاج المحتاج											
Log 10.0 0.00				2 malayastra	malandrastro	- Al-	3			-3.68 dBm	Center Freq 5.785000000 GHz	
-20.0 -30.0 -40.0	ANNIN	untrar and the	WWWWLWWW					V. Yurbahalau	- shuhatha	hold when hours	Start Freq 5.76000000 GHz	
-50.0 -60.0 -70.0											Stop Freq 5.81000000 GHz	
Center 5 #Res BW	.7850 / 100	0 GHz kHz	X	#VBV	V 300 kHz	FUI	NCTION FUI	Sweep	Span 5 4.80 ms (0.00 MHz 1001 pts) NVALUE	CF Step 5.000000 MHz <u>Auto</u> Man	
1 N 2 N 3 N 4 5 6	1 f 1 f 1 f		5.78631 5.7774 5.7926	0 GHZ 5 GHZ 0 GHZ	2.32 di -4.38 di -5.42 di	3m 3m 3m					Freq Offset 0 Hz	
7 8 9 10 11 12												
MSG								STATUS	3		L	

Product	:	TABLET PC
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5825MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
165	5825.00	15200	>500	Pass

Figure Channel 165:

Agilen	it Spec	ctrum	Anal	yzer - Sw	ept SA	l										
LXI R	L		RF	50 Ω	AC				SE	NSE:INT	0		ALIGN AUTO	01:02:15	M Mar 13, 2014	Frequency
Cen	ter	Fre	q 5	.82500	0000	JUGI	HZ PNO: Fz	ast 🕞	Trig: Fre	e Run	Avg	туре	: Log-Pwr	TY	PE MWWWWW	,
						İF	Gain:L	.ow	#Atten: 3	0 dB				D		
													Mkr	2 5.817	40 GHz	Auto I une
10 di	B/div	F	₹ef	20.00	dBm	ı I								-5.	96 dBm	
10.0										1						
10.0								▲2		∇	. /	3				Center Freq
0.00			+		+		64	wohen	manne	-	and molent	my			-2.90 dDm	5.825000000 GHz
-10.0			+							1		t				
-20.0	<u> </u>		+		<u> </u>	a and	M					- 10	Marylan			Start Fred
-30.0	<u> </u>			www.llfi	rauni	I WIN	-						- may light	WWW.hours		5 80000000 GHz
-40.0		har work	Main	14.										····Ψ	WAR	0.00000000000
-50.0	MM														T WWW	
-60.0																Stop Freq
70.0																5.85000000 GHz
-70.0																
Cen	ter :	5.82	500	GHz										Span :	0.00 MHz	CE Stop
#Re	s BV	N 10	10 k	Hz			#	¢VB₩	300 kHz				Sweep	4.80 ms ((1001 pts)	5.000000 MHz
MKB	MODE	TRC	SCL		×	×			Y		FUNCTION	FUN	CTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Man
1	N	1	f		6	5.826 2	25 GH:	z	<u>3.02 d</u>	Bm						
2	N	1	f		6	5.817.4 5.832.6	<u>10 GH:</u> 30 GH:	Z 7	-5.96 d	Bm Bm						Erog Offect
4								-	0.01 0							Frequise
5			-													0 112
7																
8			-													
10																
11			+													
			- 1					1		1						
MSG													STATUS	3		

8. **Power Density**

8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2013
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2013
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2013

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

8.5. Uncertainty

± 1.27 dB

8.6. Test Result of Power Density

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result	
1	2412.00	6.53	< 8dBm	Pass	

Figure Channel 1:

Agilen	t Spectru	ım Analy	zer - Swe	ept SA									
LXI RI		RF	50 Ω	AC			SEr	ISE:INT	A		09:42:33 A	M Mar 13, 2014	Frequency
Cen	ter Fr	eq z.	41200	0000	GHZ PNO: F	act	Trig: Free	Run	Avgiype	. Log-Fwr	TY	~ 1 2 3 4 5 6 E M WWWWW	
					IFGain:	Low	#Atten: 30) dB			DI	T P N N N N N	
										Mkr1	2.411 5	08 GHz	Auto Tune
10 dE	3/div	Ref 2	20.00 d	lBm							6.	53 dBm	
LUg													
10.0							_ 1						Center Freq
10.0								0.4					2.412000000 GHz
				A /	MA	m	M	m	man	A.A.A	0		
0.00		6	Jun		~		/	1		- ward	m	٨	Start Fred
	0 N	N.	1				ν L	Y				MAN	2 404762500 CHZ
-10.0	J	$\overline{\mathbf{h}}$	(\bigvee	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2.404702300 GH2
-20.0													Stop Freg
													2.419237500 GHz
-30.0		_											
-40.0													CF Step
													Auto Man
-50.0													<u>, iato</u>
-60.0													Freq Offset
													0 Hz
-70.0													
-70.0													
Cen	ter 2.4	12000) GHz								Span 1	4.48 MHz	
#Res	s BW 1	100 kł	IZ		:	#VBW	300 kHz			Sweep	1.40 ms (1001 pts)	
MSG										STATUS	;		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
6	2437.000	6.29	< 8dBm	Pass

Figure Channel 6:

Agiler	nt Spectrum A	nalyzer - Sw	ept SA								
LXI R	L F	RF 50 Ω	AC		SEF	VSE:INT		ALIGN AUTO	09:49:00 /	AM Mar 13, 2014	Frequency
Cen	iter Freq	2.43700	00000	GHz	Tria: Free	Run	Avg Type	: Log-Pwr	TRAC	CE 1 2 3 4 5 6	Trequency
				PNO: Fast	#Atten: 30) dB			D	ET P N N N N N	
				II GUIILEON				Million O	427 50		Auto Tune
									.437 504		
10 dl	B/div R (ef 20.00 d	dBm						0.	29 aBM	
9											
						.1					Center Freq
10.0						⊢ ♦ ' —					2.437000000 GHz
			1	A A A	M	M	mr a	Δ			
0.00		<u>λ</u> Λ	$+$ $\rho \sim \Delta$	June.	~ ~			man	Ann		
	. Λ	1	Y~		λ.	N				A	Start Freq
40.0	A Mar									1 mun	2.429800000 GHz
-10.0	J 400	W							W		
-20.0											Stop Fred
										I	
-30.0											2.444200000 GHz
-30.0											
										I	CE Sten
-40.0											1 440000 MHz
											Auto Man
-50.0											<u>Auto</u> mari
											Freg Offset
-60.0									1		0.Hz
											0112
-70.0											
Cen	ter 2.437	000 GHz							Span 1	4.40 MHz	
#Re	s BW 100) kHz		#VBW	300 kHz			Sweep	1.40 ms (1001 pts)	
MSG								STATUS		• • • •	<u> </u>
Mag								STATUS	, 		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit - 802.11b 1Mbps (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
11	2462.00	6.52	< 8dBm	Pass

Figure Channel 11:

Agilen	it Spectrum A	nalyzer - Swe	ept SA								
LXI RI		KF 50 Ω		·U-	SEr	NSE:INT	Ava Type	ALIGNAUTO	09:56:28 A	M Mar 13, 2014	Frequency
Cen		2.40200		PNO: Fast 🕞 IFGain:Low	Trig: Free #Atten: 30	eRun)dB		Mkr1	2.462 5		Auto Tune
10 dE Log	B/div Re	ef 20.00 c	1Bm						0.	5∠ aBm	
10.0					ΛΛ	11	0.0.0				Center Freq 2.462000000 GHz
0.00		A	Ard	www.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1000	mul	MA	An		
-10.0	M				1	N				M	Start Freq 2.455137500 GHz
-20.0											
-30.0											Stop Freq 2.468862500 GHz
-40.0											CF Step 1.372500 MHz Auto Man
-50.0											Adto Mari
-60.0											Freq Offset 0 Hz
-70.0											
Cen #Re	ter 2.462 s BW 100	000 GHz) kHz		#VBW	300 kHz			Sweep	Span 1 1.33 ms (3.73 MHz 1001 pts)	
MSG								STATUS			

Product	:	TABLET PC
Test Item		Power Density Data
Test Site	•	No.3 OATS
Test Mode	•	Mode 2: Transmit - 802.11g 6Mbps (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
1	2412.00	3.95	< 8dBm	Pass

Figure Channel 1:

Agilen	it Spectrum	Analyzer - Sw	rept SA								
LXI R	L	RF 50 Ω	AC AC		SEF	NSE:INT	A	ALIGN AUTO	10:04:34 A	M Mar 13, 2014	Frequency
Cen	iter Fre	q 2.4120	00000 G	HZ PNO: Fast	Trig: Free	Run	AVg Type	: Log-Pwr	TYF	[⊭] 123456 ≊M ₩₩₩₩₩₩	
			I	Gain:Low	#Atten: 30) dB		Mkr1	DE 2 414 5		Auto Tune
10 de	B/div F	Ref 20.00	dBm						3.1	95 dBm	
3											Center Freq
10.0							↓ 1				2.412000000 GHz
0.00			A A	Anna	warderan	معلمم	Margara	And the second	h		
		mally	Martin			V		i i i vyvy v	wordbrog		Start Freq
-10.0		- <u>_</u>							4		2.400637500 GHz
-20.0		AR OLAN							\u	in the second se	Ctop From
	~WY W									" Ween my	2.423362500 GHz
-30.0											
-40.0											CF Step
											Auto Man
-50.0											
-60.0											Freq Offset
											0 Hz
-70.0											
	L	000.011-							0	0.70.0411-	
#Re	s BW 10	200 GHZ)0 kHz		#VBW	300 kHz			Sweep	3pan 2 2.20 ms (2.7 5 MHZ 1001 pts)	
MSG								STATU	5		t

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
6	2437.000	4.21	< 8dBm	Pass

Figure Channel 6:

Agilen	nt Spectrum	Analyzer - Swe	ept SA								
LXI R		RF 50 Ω	AC	•	SEM	ISE:INT	A	ALIGN AUTO	10:10:56 A	M Mar 13, 2014	Frequency
Cen	iter Free	q 2.43700	10000 GI	HZ PNO: Fast	Trig: Free	Run	Avg Type	: Log-Pwr	TYP	E MWWWWW	
			IF	Gain:Low	#Atten: 30) dB			DE	T P N N N N N	Auto Tuno
								Mkr1	2.438 2	77 GHz	Auto Tune
10 di Log	B/div R	tef 20.00 c	dBm						4.	21 aBm	
											Center Freq
10.0						1					2 437000000 GHz
						∳'					2.40700000000112
0.00			1 A	manner	wohllow.	manular	America	A	8		
		mh	and low a		l	/		1.1 ከሥላው የሳ	unling		Start Freq
-10.0											2.425600000 GHz
		15							. h.		
-20.0		n ^{(*}							10	ab _e	Oton Eror
	mention									What has	Stop Freq
-30.0	<u> </u>										2.448400000 GH2
-40.0											CF Step
											2.280000 MHZ
-50.0											<u>Auto</u> man
-60.0											Freq Offset
											0 Hz
-70.0											
.	L	700 011-							Oner O		
ten #Re	s BW 10	n kHz		#VBW	300 kHz			Sween	5 pan 2 2 20 ms (2.80 MIMZ	
MSG		v		~•044	570 MIZ			etatu			
MSG								STATU	3		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmit - 802.11g 6Mbps (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit	Result
11	2462.00	4.30	< 8dBm	Pass

Figure Channel 11:

Agile	nt S	pectrum A	nalyzer - Sw	ept SA								
wµ Cer	nte	r Freq	50 Ω 2.46200	AC D0000 G	iHz	SEN		Avg Type	ALIGNAUTO : Log-Pwr	10:18:27 A TRAC	M Mar 13, 2014	Frequency
10 d	B/d	liv Re	ef 20.00 (dBm	PNO: Fast 🖵	#Atten: 30) dB		Mkr1	2.463 2 4.	54 GHz 30 dBm	Auto Tune
10.0							1 ∙					Center Freq 2.462000000 GHz
0.00			pol	mburd	howhand	and lange		Marindon	Amult	melm		Start Freq 2.450600000 GHz
-20.0	N	wywww	n nd							·∕∿	he white white	Stop Freq 2.473400000 GHz
-30.0 -40.0												CF Step 2.280000 MHz
-50.0 -60.0												Freq Offset
-70.0												0 Hz
Cer #Re	nter es E	r 2.462 BW 100	00 GHz) kHz		#VBW	300 kHz			Sweep	Span 2 2.20 ms (2.80 MHz 1001 pts)	

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps (5745MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
149	5745.000	3.88	< 8dBm	Pass

Figure Channel 149:

Agiler	nt Spectrum	Analyzer - Sw	ept SA								
(X) R Cen	∟ Iter Fre	RF 50 Ω q 5.74500	AC 10000 GH	łz	SEI		Avg Type	ALIGN AUTO : Log-Pwr	12:19:09 F TRAC	M Mar 13, 2014	Frequency
10 di	B/div I	Ref 20.00 (Pr IFC IBm	NO: Fast 🕞 Gain:Low	#Atten: 3) dB		Mkr1	5.746 2 3.1	254 GHz 88 dBm	Auto Tune
10.0						1-					Center Freq 5.745000000 GHz
0.00		mh	mlmutu	where	งอยาปประสา	בונשלטען	Merrollun	Maringh	natur		Start Freq 5.733600000 GHz
-20.0	ᡰ᠆ᡎ᠕ᡘ᠉	Man							M,	Margary	Stop Freq 5.756400000 GHz
-40.0											CF Step 2.280000 MHz <u>Auto</u> Man
-50.0 -60.0											Freq Offset 0 Hz
-70.0											
Cen #Re	ter 5.74 s BW 10	500 GHz 00 kHz		#VBW	300 kHz			Sweep	Span 2 2.20 ms (2.80 MHz 1001 pts)	
MSG								STATU	5		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps (5785MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
157	5785.000	2.70	< 8dBm	Pass

Figure Channel 157:

Agiler	nt Spectrum A	nalyzer - Swe	ept SA								
Cen	ter Freq	F 50 Ω 5.78500	AC 10000 GH	lz			Avg Type	ALIGN AUTO : Log-Pwr	12:27:02 F TRAC	M Mar 13, 2014	Frequency
10 di	B/div R e	ef 20.00 c	Pr IFC IBm	NO: Fast ⊆ Gain:Low	#Atten: 30) dB		Mkr1	5.786 2 2.	277 GHz 70 dBm	Auto Tune
10.0						1					Center Freq 5.785000000 GHz
0.00		pmlm	March	www.	within	porton	thurnhan	mhoursh	wentry		Start Freq 5.773600000 GHz
-20.0	W. M. M. M.	p.N ^{.1}								WWWWW	Stop Freq 5.796400000 GHz
-40.0											CF Step 2.280000 MHz Auto Man
-50.0											Ereg Offset
-60.0											0 Hz
-70.0											
Cen #Re	ter 5.785 s BW 100	00 GHz) kHz		#VBW	300 kHz			Sweep	Span 2 2.20 ms (2.80 MHz 1001 pts)	
MSG								STATU	S		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmit - 802.11a 6Mbps (5825MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
165	5825.000	3.20	< 8dBm	Pass

Figure Channel 165:

Agilen	t Spectru	m Analyzer - Sw	ept SA								
Cen	ter Fr	RF 50 Ω eq 5.82500	AC D0000 GH	łz			Avg Type	ALIGNAUTO : Log-Pwr	12:34:21 F	M Mar 13, 2014	Frequency
10 dE	3/div	Ref 20.00 (P IFI d B m	NO: Fast 🕞 Gain:Low	#Atten: 30) dB		Mkr1	5.826 2 3.	273 GHz 20 dBm	Auto Tune
10.0						1					Center Freq 5.825000000 GHz
0.00		molin	whent	whent	why	produce	they will be	Munit	milin		Start Freq 5.813637500 GHz
-20.0 -30.0	ww	Mar Dour							The second	MUNYUN	Stop Freq 5.836362500 GHz
-40.0											CF Step 2.272500 MHz <u>Auto</u> Man
-60.0											Freq Offset 0 Hz
-70.0 Cen	ter 5.8	2500 GHz		#\(B)A	200 647			Swoon	Span 2	2.73 MHz	
#RC				#VBW	JUU KAZ			STATUS	2.20 IIIS (1001 pts)	

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
1	2412.00	2.83	< 8dBm	Pass

Figure Channel 1:

Agilen	t Spectru	m Analyzer -	Swept SA									
LXI RL		RF 5	DQ AC			SEN	ISE:INT	A.u.a. Tumo	ALIGN AUTO	02:48:51 F	M Mar 13, 2014	Frequency
Cen	ter Fr	eq 2.412	000000	J GHZ		Trig: Free Run			TYPE MWAAAAW			,
				IFGain:Lov	v	#Atten: 30	dB			DI	T P N N N N N	
									Mkr1	2.414 5	08 GHz	Auto Tune
10 dE	3/div	Ref 20.0	0 dBm							2.	83 dBm	
Log												Conton From
10.0												Center Freq
10.0								1				2.412000000 GHz
					٨	n	л	Δ				
0.00			An	Aunto	and th	windows	month	my prover por	Wmah			Start From
		man	man has				Į.			And the start of the second		2 400600000 CH-
-10.0												2.400600000 GH2
		1								,	L.	
-20.0	. N	T .									VI.	Stop Freg
	MAN										W WW	2 423400000 GHz
-30.0												
-40.0												CF Step
												2.280000 MHz
-50.0												<u>Auto</u> man
-60.0												Freq Offset
												0 Hz
70.0												
-70.0												
Cent	ter 2.4	1200 GHz	2							Span 2	2.80 MHz	
#Res	s BW 1	00 kHz		#V	'BW	300 kHz			Sweep	2.20 ms (1001 pts)	
MSG									STATU	s		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2437MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
3	2437.00	3.22	< 8dBm	Pass

Figure Channel 6:

Agilen	it Spectrur	n Analyzer - Sw	ept SA								
Cen	ter Fre	RF 50 Ω eq 2.4370	AC D0000 GH	lz			Avg Type	LIGNAUTO Log-Pwr	10:45:05 A TRAC	M Mar 13, 2014	Frequency
10 dE	3/div	Ref 20.00 (PI IFC d Bm	NO: Fast 🕞 Gain:Low	#Atten: 30) dB		Mkr1	2.438 2 3.	277 GHz 22 dBm	Auto Tune
10.0						1-					Center Freq 2.437000000 GHz
0.00 -10.0		parada	pen hour who	www.	www.	mantin	Amerika	whenmy	mbarry		Start Freq 2.425600000 GHz
-20.0	W. Lowerto	4 40 ⁻¹¹								h who who	Stop Freq 2.448400000 GHz
-40.0											CF Step 2.280000 MHz <u>Auto</u> Man
-50.0 -60.0											Freq Offset 0 Hz
-70.0									0		
#Re	ter 2.4: s BW 1	00 kHz		#VBW	300 kHz			Sweep	span 2 2.20 ms (2.80 MHZ 1001 pts)	
MSG								STATUS	3		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmit - 802.11n-20BW_7.2Mbps(2.4G Band) (2462MHz)

Channel No.	annel No. Frequency Measure (MHz) (dBn		Required Limit	Result
11	2462.00	3.25	< 8dBm	Pass

Figure Channel 11:

Agilen	t Spectrur	n Analyzer - Sw	ept SA								
Cen	ter Fre	RF 50 Ω	AC 0000 G	Hz	SEN	ISE:INT	Avg Type	ALIGNAUTO : Log-Pwr	12:09:51 F	M Mar 13, 2014 E 1 2 3 4 5 6	Frequency
10 dE	3/div	Ref 20.00 (1Bm	PNO: Fast 😱 FGain:Low	d Trig: Free #Atten: 30	e Run I dB		Mkr1	2.463 2 3.	254 GHz 25 dBm	Auto Tune
10.0						1					Center Freq 2.462000000 GHz
0.00		porta	mund	burnhund	wahan	/ Awa	Abroah	Manny	mhrm		Start Freq 2.450600000 GHz
-20.0	JANUS AND	Start L								AN CONTRACT	Stop Freq 2.473400000 GHz
-40.0											CF Step 2.280000 MHz <u>Auto</u> Man
-50.0 -60.0											Freq Offset 0 Hz
-70.0											
Cent #Res	ter 2.40 s BW 1	6200 GHz 00 kHz		#VBW	300 kHz			Sweep	Span 2 2.20 ms (2.80 MHz 1001 pts)	
MSG								STATUS	3		<u>r</u>

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5745MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
149	5745.00	2.62	< 8dBm	Pass

Figure Channel 149:

Agilen	it Spectrur	n Analyzer - Swe	ept SA								
LXI RI	tor Ere	RF 50 Ω	AC	-	SEN	ISE:INT			12:44:20 F	M Mar 13, 2014	Frequency
Cen	ICE FIE	eq 5.74500		1Z NO: Fast 🕞	Trig: Free	Run	118 116-	. Lvg-i	TY		
			IFO	Gain:Low	#Atten: 30	#Atten: 30 dB Mk			D	ET P N N N N N	
									5.746 2	254 GHz	Auto Tune
10 dE	B/div	Ref 20.00 c	iBm						2.	62 dBm	
205						-					Contor From
10.0											5 74500000 GHz
						1					5.74500000 GHZ
0.00				A A	<u>.</u>	Ā	A A				
0.00		- marship	mound	and form y	your him how	frond from	monthe	Mary	and some		Start Freq
-10.0		Andress			۲.			* 3 · ·	ann n.Mk.nl		5.733600000 GHz
10.0									Į		
-20.0		<u>√</u>								hrten .	
20.0	4/Wm	۲								*V'VIV _{Vrv} v	Stop Freq
-30.0											5.756400000 GHz
00.0											
-40.0											CF Step
10.0											2.280000 MHz
-50.0											<u>Auto</u> Man
-60.0											Freq Offset
.00.0											0 Hz
-70.0											
90.0											
Cen	ter 5.74	500 GHz						_	Span 2	2.80 MHz	
#Res	s BW 1	00 kHz		#VBW	300 kHz			Sweep	2.20 ms (1001 pts)	
MSG								STATU	5		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5785MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
157	5785.00	2.15	< 8dBm	Pass

Figure Channel 157:

Agilen	Agilent Spectrum Analyzer - Swept SA										
(X) RI	tor Fro	RF 50 Ω		U-7		ISE:INT	Ava Type	ALIGNAUTO	12:51:43 F	M Mar 13, 2014	Frequency
Cen	lerret	1 5.78500		mz PNO: Fast 🖵	Trig: Free	Run		. Log i Mi	TYF		
			IF	Gain:Low	#Atten: 30	dB		B.d.L.u.d	c 700 0		Auto Tune
MKr1 5.786 250 GHz											
Log	3/010 R	er 20.00 c	IBM				1		Z .		
											Center Freq
10.0						. 1					5.785000000 GHz
						∳'					
0.00		٨	AA	and your b	montry	mon him	mon	M	A		Start From
		ward in	MI Carries	- 4 ⁻ 1				www.w	mound		5 773637500 GHz
-10.0											0.110001000 0112
20.0		1 -								A.	
-20.0	and May									"humplan	Stop Freq
-30.0	нт										5.796362500 GHz
-40.0											CF Step
											2.272500 MHz Auto Man
-50.0											
-60.0											
											0 H2
-70.0											
Cent	ter 5.785	00 GHz	1				1		Span 2	2.73 MHz	
#Res	s BW 10	0 kHz		#VBW	300 kHz			Sweep	2.20 ms (1001 pts)	
MSG								STATUS	;		

Product	:	TABLET PC
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 5: Transmit - 802.11n-20BW_7.2Mbps(5G Band) (5825MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Required Limit	Result
165	5825.00	2.74	< 8dBm	Pass

Figure Channel 165:

Agilent Spectrum Analyzer - Swept SA												
LXI RI		RF	50 Ω	AC		SEN	ISE:INT	A.u.a. Tumo	ALIGN AUTO	01:03:21 P	M Mar 13, 2014	Frequency
Center Freq 5.825000000 GHZ					Trig: Free	Trig: Free Run		Avg Type: Log-Pwr		PE MWWWWW		
					IFGain:Low	#Atten: 30) dB			D	ET P N N N N N	
									Mkr1	5.826 2	277 GHz	Auto Tune
10 dE	3/div	Ref 2	0.00 d	Bm						2.	74 dBm	
LUg												Contor From
10.0												Center Freq
10.0							1					5.825000000 GHZ
0.00						A	Ň	в				
0.00			Λ	han	Anno hurro	willing	monther	Montren	Anna	4		Start Fred
		AM	read free	And house	• [4			. տուի խ	apar phong		5 813600000 GHz
-10.0												0.0100000000112
											1	
-20.0	S as W	-Ar									White .	Stop Freq
	NIN .										. ነት. ስፖሳት	5.836400000 GHz
-30.0												
												CE Oton
-40.0												2.280000 MHz
												Auto Man
-50.0								-				
-60.0		_										Frequise
												0 HZ
-70.0		_										
										<u> </u>		
Cent	ter 5.8	2500 (GHZ		41 (mia	200 61-			O	Span 2	2.80 MHz	
#ĸes		OU KH	Z		#vBW	I JUU KMZ			Sweep	2.20 ms (TOUT DIS)	
MSG									STATU	S		
9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs