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Applicant: Ness Corporation

4/167 Prospect Highway, Seven Hills, Sydney, NSW,

Australia 2147

Manufacturer: Macson Limited

No. 5, Jun Da Zhong Lu, Dongkeng, Dongguan, Guangdong,

China

Description of Sample(s): Submitted sample(s) said to be

Product: Doorbell Camera

Brand Name: NESS Model Number: uHoo

FCC ID: O2K-UHOO-US-W

Date Sample(s) Received: 2015-04-23

Date Tested: 2015-05-04 to 2015-05-06

Investigation Requested: Perform ElectroMagnetic Interference measurement in

accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 and ANSI C63.10:2013 for FCC Certification.

Conclusion(s): The submitted product COMPLIED with the requirements of

Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this

Test Report.

Remark(s): ---



ElectroMagnetic Compatibility Department
For and on behalf of
STC (Dongguan) Company Limited



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1.0 General Details

1.1 Test Laboratory

STC (Dongguan) Company Limited

EMC Laboratory

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China

Telephone: (86 769) 81119888 Fax: (86 769) 81116222

1.2 Equipment Under Test [EUT] Description of Sample(s)

Product: Doorbell Camera Manufacturer: Macson Limited

No. 5, Jun Da Zhong Lu, Dongkeng, Dongguan, Guangdong,

China

Brand Name: NESS
Model Number: uHoo
Rating: 4.5Vd.c.

1.2.1 Description of EUT Operation

The Equipment Under Test (EUT) is a Doorbell Camera of Ness Corporation , the transmission signal is digital modulated with channel frequency range 2412-2462MHz..

1.3 Date of Order

2015-04-23

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2015-05-04 to 2015-05-06

1.6 Country of Origin

China

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2.0 Technical Details

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 Regulations and ANSI C63.10:2013 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary									
Test Condition	Test Requirement	Test Method	Class /	T	est Resu	ılt			
			Severity	Pass	Fail	N/A			
Output Power of Fundamental Emissions	FCC 47CFR 15.247(b)(3)	ANSI C63.10:2013	N/A						
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10:2013	N/A						
Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10:2013	N/A			\boxtimes			
Power Spectral Density	FCC 47CFR 15.247(e)	N/A	N/A	\boxtimes					
6dB Bandwidth	FCC 47CFR 15.247(a)(2)	N/A	N/A	\boxtimes					
Band Edge Emissions	FCC 47CFR 15.247(d)	N/A	N/A	\boxtimes					
RF Exposure	FCC 47CFR 15.247(i)	N/A	N/A	\boxtimes					

Note: N/A - Not Applicable



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3.0 Test Results

3.1 Emission

3.1.1 Maximum Peak Output Power

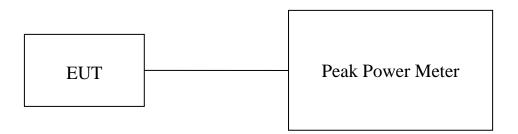
Test Requirement: FCC 47CFR 15.247(b)(3)

Test Method: N/A
Test Date: 2015-05-04
Mode of Operation: WiFi mode

Test Method:

The RF output of the EUT was connected to the peak power meter. All the attenuation or cable loss will be added to the measured maximum output power. The results are recorded in mW.

Test Setup:



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Limits for Peak Output Power of Fundamental & Harmonics Emissions [FCC 47CFR 15.247]:

For Digital Transmission systems in 2400-2483.5 MHz Band: 1 Watt (30dBm)

Results of WiFi Wifi mode 802.11 b, (2412MHz to 2462MHz) : Pass (TX Unit) Maximum conducted output power							
Channel Frequency(MHz) Output Power(Watt)							
Low	2412	0.052979					
Middle 2437 0.048339							
High	2462	0.054013					

Results of WiFi Wifi mode 802.11 g, (2412MHz to 2462MHz) : Pass (TX Unit) Maximum conducted output power						
Channel	Frequency(MHz)	Output Power(Watt)				
Low	2412	0.045761				
Middle	2437	0.041457				
High	2462	0.042491				

Results of WiFi Wifi mode 802.11 n20, (2412MHz to 2462MHz) : Pass (TX Unit) Maximum conducted output power								
Channel	Channel Frequency(MHz) Output Power(Watt)							
Low	2412	0.030839						
Middle 2437 0.028067								
High	High 2462 0.029168							

Results of WiFi Wifi mode 802.11 n40, (2422MHz to 2452MHz) : Pass (TX Unit) Maximum conducted output power						
Channel Frequency(MHz) Output Power(Watt)						
Low	2422	0.032092				
Middle	2437	0.027460				
High	2452	0.029539				

Calculated measurement uncertainty : 30MHz to 1GHz 1.7dB 1GHz to 26GHz 1.7dB



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3.1.2 Radiated Emissions

Test Requirement: FCC 47CFR 15.209 Test Method: ANSI C63.10:2013

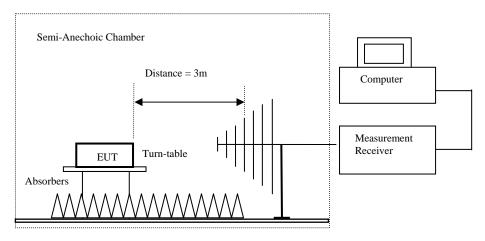
Test Date: 2015-05-05 Mode of Operation: WiFi mode

Test Method:

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

* Semi-anechoic chamber located on the G/F of "STC (Dongguan) Company Limited" with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

Test Setup:



Ground Plane

Absorbers placed on top of the ground plane are for measurements above 1000MHz only.



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Limits for Radiated Emissions [FCC 47 CFR 15.247 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Wifi mode (2412.0 MHz) (802.11b) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
	Average Value						
Frequency	Frequency Measured Correction Field Field Limit E-Field						
	Level	Factor	Strength	Strength		Polarity	
MHz	MHz $dB\mu V$ dB/m $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$						
Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2412.0 MHz) (802.11b) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions								
	Quasi-Peak Value							
Frequency	Frequency Measured Correction Field Field Limit E-Field							
	Level	Factor	Strength	Strength		Polarity		
MHz	MHz $dB\mu V$ dB/m $dB\mu V/m$ $dB\mu V/m$ $dB\mu V/m$							
Emissions detected are more than 20 dB below the FCC Limits								

Result of Wifi mode (2412.0 MHz) (802.11b) (Above 1GHz): Pass

Result of Will I	Result of Will mode (2412.0 MHz) (802.11b) (Above 1GHz). I ass								
	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m				
4824.0	14.7	41.5	56.2	74.0	17.8	Vertical			
4824.0	13.3	42.4	55.7	74.0	18.3	Horizontal			
7236.0	10.3	45.1	55.4	74.0	18.6	Vertical			
7236.0	8.8	46.2	55.0	74.0	19.0	Horizontal			
9648.0	7.5	48	55.5	74.0	18.5	Vertical			
9648.0	5.4	48.8	54.2	74.0	19.8	Horizontal			
12060.0	3.7	51.5	55.2	74.0	18.8	Vertical			
12060.0	2.6	52.4	55.0	74.0	19.0	Horizontal			



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Result of Wifi mode (2412.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions							
	Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m			
4824.0	2.5	41.5	44.0	54.0	10.0	Vertical		
4824.0	-0.1	42.4	42.3	54.0	11.7	Horizontal		
7236.0	-3.0	45.1	42.1	54.0	11.9	Vertical		
7236.0	-4.9	46.2	41.3	54.0	12.7	Horizontal		
9648.0	-6.4	48	41.6	54.0	12.4	Vertical		
9648.0	-7.6	48.8	41.2	54.0	12.8	Horizontal		
12060.0	-10.0	51.5	41.5	54.0	12.5	Vertical		
12060.0	-9.8	52.4	42.6	54.0	11.4	Horizontal		

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Result of Wifi mode (2437.0 MHz) (802.11b) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
	Average Value						
Frequency	Frequency Measured Correction Field Field Limit E-Field						
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2437.0 MHz) (802.11b) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
Quasi-Peak Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	$dB\mu V/m$	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Result of Wifi mode (2437.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Peak Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m				
4874.0	15.0	41.6	56.6	74.0	17.4	Vertical			
4874.0	13.9	42.5	56.4	74.0	17.6	Horizontal			
7311.0	10.3	45.2	55.5	74.0	18.5	Vertical			
7311.0	9.0	46.3	55.3	74.0	18.7	Horizontal			
9748.0	7.3	48.1	55.4	74.0	18.6	Vertical			
9748.0	7.2	48.9	56.1	74.0	17.9	Horizontal			
12185.0	3.4	51.6	55.0	74.0	19.0	Vertical			
12185.0	2.6	52.5	55.1	74.0	18.9	Horizontal			



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Result of Wifi mode (2437.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	0.4	41.6	42.0	54.0	12.0	Vertical			
4874.0	0.2	42.5	42.7	54.0	11.3	Horizontal			
7311.0	-3.1	45.2	42.1	54.0	11.9	Vertical			
7311.0	-3.8	46.3	42.5	54.0	11.5	Horizontal			
9748.0	-6.5	48.1	41.6	54.0	12.4	Vertical			
9748.0	-6.4	48.9	42.5	54.0	11.5	Horizontal			
12185.0	-9.9	51.6	41.7	54.0	12.3	Vertical			
12185.0	-10.2	52.5	42.3	54.0	11.7	Horizontal			

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Result of Wifi mode (2462.0 MHz) (802.11b) (9kHz – 30MHz): Pass

	Field Strength of Spurious Emissions								
Average Value									
Frequency	Measured	Correction	Field	Field	Limit	E-Field			
	Level	Factor	Strength	Strength		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
	Emissions detected are more than 20 dB below the FCC Limits								

Results of Wifi mode (2462.0 MHz) (802.11b) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2462.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Peak Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m				
4924.0	14.8	41.4	56.2	74.0	17.8	Vertical			
4924.0	12.4	42.7	55.1	74.0	18.9	Horizontal			
7386.0	8.4	45.6	54.0	74.0	20.0	Vertical			
7386.0	8.1	46.5	54.6	74.0	19.4	Horizontal			
9848.0	6.9	48.6	55.5	74.0	18.5	Vertical			
9848.0	4.9	49.7	54.6	74.0	19.4	Horizontal			
12310.0	3.3	51.7	55.0	74.0	19.0	Vertical			
12310.0	3.0	52.7	55.7	74.0	18.3	Horizontal			



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Result of Wifi mode (2462.0 MHz) (802.11b) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4924.0	1.1	41.4	42.5	54.0	11.5	Vertical			
4924.0	-0.4	42.7	42.3	54.0	11.7	Horizontal			
7386.0	-4.0	45.6	41.6	54.0	12.4	Vertical			
7386.0	-5.1	46.5	41.4	54.0	12.6	Horizontal			
9848.0	-6.5	48.6	42.1	54.0	11.9	Vertical			
9848.0	-8.0	49.7	41.7	54.0	12.3	Horizontal			
12310.0	-10.3	51.7	41.4	54.0	12.6	Vertical			
12310.0	-11.4	52.7	41.3	54.0	12.7	Horizontal			

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Result of Wifi mode (2412.0 MHz) (802.11g) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2412.0 MHz) (802.11g) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
Quasi-Peak Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Result of Wifi mode (2412.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Peak Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	$dB\muV/m$	dBμV/m				
4824.0	14.5	41.5	56.0	74.0	18.0	Vertical			
4824.0	13.0	42.4	55.4	74.0	18.6	Horizontal			
7236.0	11.0	45.1	56.1	74.0	17.9	Vertical			
7236.0	8.3	46.2	54.5	74.0	19.5	Horizontal			
9648.0	8.1	48	56.1	74.0	17.9	Vertical			
9648.0	5.8	48.8	54.6	74.0	19.4	Horizontal			
12060.0	3.5	51.5	55.0	74.0	19.0	Vertical			
12060.0	2.9	52.4	55.3	74.0	18.7	Horizontal			



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Result of Wifi mode (2412.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4824.0	0.6	41.5	42.1	54.0	11.9	Vertical			
4824.0	-1.2	42.4	41.2	54.0	12.8	Horizontal			
7236.0	-2.7	45.1	42.4	54.0	11.6	Vertical			
7236.0	-4.2	46.2	42.0	54.0	12.0	Horizontal			
9648.0	-6.6	48	41.4	54.0	12.6	Vertical			
9648.0	-7.5	48.8	41.3	54.0	12.7	Horizontal			
12060.0	-9.3	51.5	42.2	54.0	11.8	Vertical			
12060.0	-9.7	52.4	42.7	54.0	11.3	Horizontal			

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Result of Wifi mode (2437.0 MHz) (802.11g) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions							
Average Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Results of Wifi mode (2437.0 MHz) (802.11g) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	$dB\muV/m$	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2437.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Peak Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	14.3	41.6	55.9	74.0	18.1	Vertical			
4874.0	13.1	42.5	55.6	74.0	18.4	Horizontal			
7311.0	10.0	45.2	55.2	74.0	18.8	Vertical			
7311.0	9.0	46.3	55.3	74.0	18.7	Horizontal			
9748.0	7.4	48.1	55.5	74.0	18.5	Vertical			
9748.0	6.1	48.9	55.0	74.0	19.0	Horizontal			
12185.0	3.7	51.6	55.3	74.0	18.7	Vertical			
12185.0	3.9	52.5	56.4	74.0	17.6	Horizontal			



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Result of Wifi mode (2437.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field				
	Level @3m	Factor	Strength	@3m		Polarity				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m					
4874.0	-0.6	41.6	41.0	54.0	13.0	Vertical				
4874.0	-1.1	42.5	41.4	54.0	12.6	Horizontal				
7311.0	-3.1	45.2	42.1	54.0	11.9	Vertical				
7311.0	-4.8	46.3	41.5	54.0	12.5	Horizontal				
9748.0	-6.3	48.1	41.8	54.0	12.2	Vertical				
9748.0	-6.7	48.9	42.2	54.0	11.8	Horizontal				
12185.0	-9.9	51.6	41.7	54.0	12.3	Vertical				
12185.0	-10.0	52.5	42.5	54.0	11.5	Horizontal				

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Result of Wifi mode (2462.0 MHz) (802.11g) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2462.0 MHz) (802.11g) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2462.0 MHz) (802.11g) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
Peak Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m				
4924.0	14.8	41.4	56.2	74.0	17.8	Vertical			
4924.0	13.1	42.7	55.8	74.0	18.2	Horizontal			
7386.0	9.4	45.6	55.0	74.0	19.0	Vertical			
7386.0	7.6	46.5	54.1	74.0	19.9	Horizontal			
9848.0	7.6	48.6	56.2	74.0	17.8	Vertical			
9848.0	5.8	49.7	55.5	74.0	18.5	Horizontal			
12310.0	4.0	51.7	55.7	74.0	18.3	Vertical			
12310.0	2.5	52.7	55.2	74.0	18.8	Horizontal			



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Result of Wifi mode (2462.0 MHz) (802.11g) (Above 1GHz): Pass

		Field Streng	th of Spuriou	ıs Emissions					
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4924.0	1.0	41.4	42.4	54.0	11.6	Vertical			
4924.0	-0.6	42.7	42.1	54.0	11.9	Horizontal			
7386.0	-4.0	45.6	41.6	54.0	12.4	Vertical			
7386.0	-5.1	46.5	41.4	54.0	12.6	Horizontal			
9848.0	-6.5	48.6	42.1	54.0	11.9	Vertical			
9848.0	-8.4	49.7	41.3	54.0	12.7	Horizontal			
12310.0	-9.7	51.7	42.0	54.0	12.0	Vertical			
12310.0	-11.1	52.7	41.6	54.0	12.4	Horizontal			

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Result of Wifi mode (2412.0 MHz) (802.11n20) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2412.0 MHz) (802.11n20) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2412.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m				
4824.0	15.1	41.5	56.6	74.0	17.4	Vertical			
4824.0	13.1	42.4	55.5	74.0	18.5	Horizontal			
7236.0	9.9	45.1	55.0	74.0	19.0	Vertical			
7236.0	9.1	46.2	55.3	74.0	18.7	Horizontal			
9648.0	8.1	48	56.1	74.0	17.9	Vertical			
9648.0	5.9	48.8	54.7	74.0	19.3	Horizontal			
12060.0	5.0	51.5	56.5	74.0	17.5	Vertical			
12060.0	2.6	52.4	55.0	74.0	19.0	Horizontal			



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Result of Wifi mode (2412.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4824.0	-0.1	41.5	41.4	54.0	12.6	Vertical			
4824.0	-0.2	42.4	42.2	54.0	11.8	Horizontal			
7236.0	-2.4	45.1	42.7	54.0	11.3	Vertical			
7236.0	-4.1	46.2	42.1	54.0	11.9	Horizontal			
9648.0	-6.8	48	41.2	54.0	12.8	Vertical			
9648.0	-7.5	48.8	41.3	54.0	12.7	Horizontal			
12060.0	-9.1	51.5	42.4	54.0	11.6	Vertical			
12060.0	-9.7	52.4	42.7	54.0	11.3	Horizontal			

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Result of Wifi mode (2437.0 MHz) (802.11n20) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2437.0 MHz) (802.11n20) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	$dB\mu V/m$	$dB\mu V/m$		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2437.0 MHz) (802.11n20) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m				
4874.0	15.5	41.6	57.1	74.0	16.9	Vertical			
4874.0	13.7	42.5	56.2	74.0	17.8	Horizontal			
7311.0	10.4	45.2	55.6	74.0	18.4	Vertical			
7311.0	9.4	46.3	55.7	74.0	18.3	Horizontal			
9748.0	7.9	48.1	56.0	74.0	18.0	Vertical			
9748.0	7.6	48.9	56.5	74.0	17.5	Horizontal			
12185.0	4.0	51.6	55.6	74.0	18.4	Vertical			
12185.0	3.7	52.5	56.2	74.0	17.8	Horizontal			



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Result of Wifi mode (2437.0 MHz) (802.11n20) (Above 1GHz): Pass

		Field Streng	th of Spuriou	ıs Emissions					
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4874.0	0.4	41.6	42.0	54.0	12.0	Vertical			
4874.0	-0.3	42.5	42.2	54.0	11.8	Horizontal			
7311.0	-3.9	45.2	41.3	54.0	12.7	Vertical			
7311.0	-3.8	46.3	42.5	54.0	11.5	Horizontal			
9748.0	-5.7	48.1	42.4	54.0	11.6	Vertical			
9748.0	-6.8	48.9	42.1	54.0	11.9	Horizontal			
12185.0	-10.3	51.6	41.3	54.0	12.7	Vertical			
12185.0	-11.1	52.5	41.4	54.0	12.6	Horizontal			

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Result of Wifi mode (2462.0 MHz) (802.11n20) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2462.0 MHz) (802.11n20) (30MHz - 1000MHz): PASS

	Field Strength of Spurious Emissions							
Quasi-Peak Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Result of Wifi mode (2462.0 MHz) (802.11n20) (Above 1GHz): Pass

		Field Streng	th of Spuriou	ıs Emissions					
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m				
4924.0	15.0	41.4	56.4	74.0	17.6	Vertical			
4924.0	12.4	42.7	55.1	74.0	18.9	Horizontal			
7386.0	8.9	45.6	54.5	74.0	19.5	Vertical			
7386.0	8.9	46.5	55.4	74.0	18.6	Horizontal			
9848.0	7.0	48.6	55.6	74.0	18.4	Vertical			
9848.0	4.9	49.7	54.6	74.0	19.4	Horizontal			
12310.0	4.0	51.7	55.7	74.0	18.3	Vertical			
12310.0	3.0	52.7	55.7	74.0	18.3	Horizontal			



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Result of Wifi mode (2462.0 MHz) (802.11n20) (Above 1GHz): Pass

		Field Streng	th of Spuriou	ıs Emissions					
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4924.0	2.2	41.4	43.6	54.0	10.4	Vertical			
4924.0	-0.5	42.7	42.2	54.0	11.8	Horizontal			
7386.0	-4.0	45.6	41.6	54.0	12.4	Vertical			
7386.0	-5.3	46.5	41.2	54.0	12.8	Horizontal			
9848.0	-6.5	48.6	42.1	54.0	11.9	Vertical			
9848.0	-8.4	49.7	41.3	54.0	12.7	Horizontal			
12310.0	-10.7	51.7	41.0	54.0	13.0	Vertical			
12310.0	-11.2	52.7	41.5	54.0	12.5	Horizontal			



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Result of Wifi mode (2422.0 MHz) (802.11n40) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2422.0 MHz) (802.11n40) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions							
Quasi-Peak Value							
Frequency	Measured	Correction	Field	Field	Limit	E-Field	
	Level	Factor	Strength	Strength		Polarity	
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m		
	Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2422.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions								
	Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	dBμV/m	$dB\muV/m$	dBμV/m				
4844.0	13.5	41.5	55.0	74.0	19.0	Vertical			
4844.0	12.2	42.4	54.6	74.0	19.4	Horizontal			
7266.0	10.0	45.1	55.1	74.0	18.9	Vertical			
7266.0	9.0	46.2	55.2	74.0	18.8	Horizontal			
9688.0	7.3	48	55.3	74.0	18.7	Vertical			
9688.0	6.1	48.8	54.9	74.0	19.1	Horizontal			
12110.0	4.5	51.5	56.0	74.0	18.0	Vertical			
12110.0	2.8	52.4	55.2	74.0	18.8	Horizontal			



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Result of Wifi mode (2422.0 MHz) (802.11n40) (Above 1GHz): Pass

		Field Streng	th of Spuriou	ıs Emissions					
	Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m				
4844.0	-1.4	41.5	40.1	54.0	13.9	Vertical			
4844.0	-3.3	42.4	39.1	54.0	14.9	Horizontal			
7266.0	-4.4	45.1	40.7	54.0	13.3	Vertical			
7266.0	-5.9	46.2	40.3	54.0	13.7	Horizontal			
9688.0	-7.0	48	41.0	54.0	13.0	Vertical			
9688.0	-7.7	48.8	41.1	54.0	12.9	Horizontal			
12110.0	-9.4	51.5	42.1	54.0	11.9	Vertical			
12110.0	-10.9	52.4	41.5	54.0	12.5	Horizontal			

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Result of Wifi mode (2437.0 MHz) (802.11n40) (9kHz - 30MHz): Pass

	Field Strength of Spurious Emissions							
Average Value								
Frequency	Measured	Correction	Field	Field	Limit	E-Field		
	Level	Factor	Strength	Strength		Polarity		
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m			
	Emissions detected are more than 20 dB below the FCC Limits							

Results of Wifi mode (2437.0 MHz) (802.11n40) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions						
Quasi-Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
	Level	Factor	Strength	Strength		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2437.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions					
			Peak Value			
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
4874.0	14.2	41.6	55.8	74.0	18.2	Vertical
4874.0	12.7	42.5	55.2	74.0	18.8	Horizontal
7311.0	10.3	45.2	55.5	74.0	18.5	Vertical
7311.0	9.0	46.3	55.3	74.0	18.7	Horizontal
9748.0	7.7	48.1	55.8	74.0	18.2	Vertical
9748.0	7.1	48.9	56.0	74.0	18.0	Horizontal
12185.0	4.3	51.6	55.9	74.0	18.1	Vertical
12185.0	3.6	52.5	56.1	74.0	17.9	Horizontal



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Result of Wifi mode (2437.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions					
		A	verage Valu	e		
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m	
4874.0	-1.6	41.6	40.0	54.0	14.0	Vertical
4874.0	-1.2	42.5	41.3	54.0	12.7	Horizontal
7311.0	-4.4	45.2	40.8	54.0	13.2	Vertical
7311.0	-5.8	46.3	40.5	54.0	13.5	Horizontal
9748.0	-6.1	48.1	42.0	54.0	12.0	Vertical
9748.0	-6.8	48.9	42.1	54.0	11.9	Horizontal
12185.0	-10.2	51.6	41.4	54.0	12.6	Vertical
12185.0	-11.3	52.5	41.2	54.0	12.8	Horizontal

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Result of Wifi mode (2452.0 MHz) (802.11n40) (9kHz - 30MHz): Pass

Field Strength of Spurious Emissions						
Average Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
	Level	Factor	Strength	Strength		Polarity
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m	
	Emissions detected are more than 20 dB below the FCC Limits					

Results of Wifi mode (2452.0 MHz) (802.11n40) (30MHz - 1000MHz): PASS

Field Strength of Spurious Emissions						
Quasi-Peak Value						
Frequency	Measured	Correction	Field	Field	Limit	E-Field
	Level	Factor	Strength	Strength		Polarity
MHz	dΒμV	dB/m	dBμV/m	dBμV/m	dBμV/m	
Emissions detected are more than 20 dB below the FCC Limits						

Result of Wifi mode (2452.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions					
			Peak Value			
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dBμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
4904.0	14.6	41.4	56.0	74.0	18.0	Vertical
4904.0	12.7	42.7	55.4	74.0	18.6	Horizontal
7356.0	9.3	45.6	54.9	74.0	19.1	Vertical
7356.0	9.2	46.5	55.7	74.0	18.3	Horizontal
9808.0	7.1	48.6	55.7	74.0	18.3	Vertical
9808.0	5.1	49.7	54.8	74.0	19.2	Horizontal
12260.0	4.1	51.7	55.8	74.0	18.2	Vertical
12260.0	2.9	52.7	55.6	74.0	18.4	Horizontal



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Result of Wifi mode (2452.0 MHz) (802.11n40) (Above 1GHz): Pass

	Field Strength of Spurious Emissions Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dBuV/m		
4904.0	0.7	41.4	42.1	54.0	11.9	Vertical	
4904.0	-1.4	42.7	41.3	54.0	12.7	Horizontal	
7356.0	-4.6	45.6	41.0	54.0	13.0	Vertical	
7356.0	-5.2	46.5	41.3	54.0	12.7	Horizontal	
9808.0	-6.6	48.6	42.0	54.0	12.0	Vertical	
9808.0	-8.7	49.7	41.0	54.0	13.0	Horizontal	
12260.0	-11.1	51.7	40.6	54.0	13.4	Vertical	
12260.0	-11.3	52.7	41.4	54.0	12.6	Horizontal	

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

* Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty : 9kHz-30MHz 3.3dB

30MHz -1GHz 4.6dB 1GHz -26GHz 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.



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Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

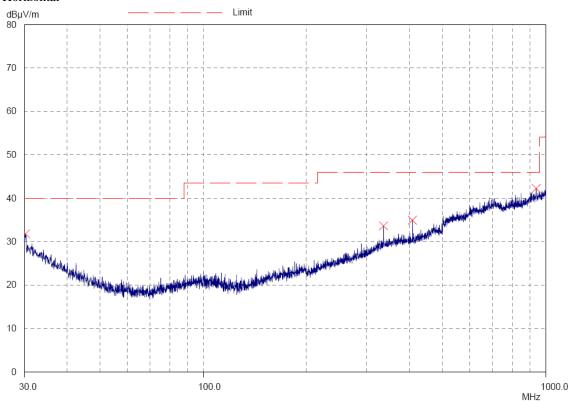
Elilits for Radiated Elilissions [FCC 47 CFR 13.	207 Class B].
Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of WiFi mode (30MHz - 1GHz): Pass

Please refer to the following table for result details

Horizontal





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Result of WiFi mode (30MHz - 1GHz): Pass

	Radiated Emissions						
		Quasi	-Peak				
Emission	E-Field	Level	Limit	Level	Limit		
Frequency	Polarity	@3m	@3m	@3m	@3m		
MHz		$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$	$dB\muV/m$		
30.3	Horizontal	31.8	40.0	38.9	100		
336.0	Horizontal	33.6	46.0	47.9	200		
408.0	Horizontal	34.9	46.0	55.6	200		
937.9	Horizontal	42.2	46.0	128.8	200		



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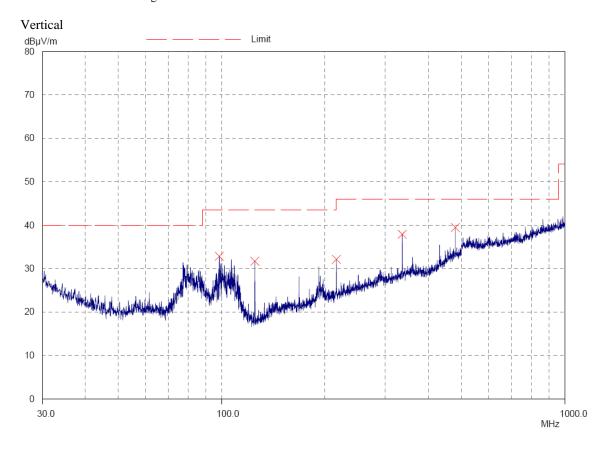
Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range	Quasi-Peak Limits
[MHz]	$[\mu V/m]$
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of WiFi mode (30MHz - 1GHz): Pass

Please refer to the following table for result details





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Result of WiFi mode (30MHz - 1GHz): Pass

Radiated Emissions Quasi-Peak						
Emission	E-Field	Level	Limit	Level	Limit	
Frequency	Polarity	@3m	@3m	@3m	@3m	
MHz		dBμV/m	dBμV/m	$dB\mu V/m$	$dB\mu V/m$	
98.5	Vertical	32.8	43.5	43.7	150	
125.0	Vertical	31.7	43.5	38.5	150	
216.0	Vertical	32.1	46.0	40.3	150	
336.0	Vertical	37.9	46.0	78.5	200	
480.0	Vertical	39.4	46.0	93.3	200	

Remarks:

Calculated measurement uncertainty (30MHz - 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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3.1.3 Power Spectral Density

Test Requirement: FCC 47CFR 15.247(e)
Test Method: ANSI C63.10:2013

Test Date: 2015-05-04 Mode of Operation: WiFi mode

Test Method:

The RF output of the EUT was connected to the spectrum analyzer. Set the fundamental frequency as the center frequency of the spectral analyzer. Use RBW=3kHz , VBW= 10KHz , Set the span to 1.5 times the DTS channel bandwidth. Detector = peak, Sweep time = auto couple , Trace mode = max hold. Measure the Power Spectral Density (PSD) and record the results in dBm.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

Test Limit:

The maximum power spectral density (PSD) shall not exceeded 8dBm in any 3kHz band.

Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF=10log (3 kHz/100 kHz=-15.2dB)

Results of WiFi Mode 802.11 b (Tx:2412MHz to 2462MHz): Pass (TX Unit) Maximum power spectral density

Transmitter Frequency	Maximum Power spectral density level / 3kHz band	Maximum Power spectral density / 3kHz band limit
(MHz)	(dBm)	/ SKAZ Danu mint
2412.0	-9.93	8dBm
2437.0	-10.28	8dBm
2462.0	-10.19	8dBm

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Results of WiFi Mode 802.11 g (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-21.71	8dBm
2437.0	-21.08	8dBm
2462.0	-20.99	8dBm

Results of WiFi Mode 802.11 n20 (Tx:2412MHz to 2462MHz) : Pass (TX Unit) Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2412.0	-22.52	8dBm
2437.0	-22.24	8dBm
2462.0	-22.18	8dBm

Results of WiFi Mode 802.11 n40 (Tx:2422MHz to 2452MHz) : Pass (TX Unit) Maximum power spectral density

Transmitter Frequency (MHz)	Maximum Power spectral density level / 3kHz band (dBm)	Maximum Power spectral density / 3kHz band limit
2422.0	-24.69	8dBm
2437.0	-24.00	8dBm
2452.0	-24.71	8dBm

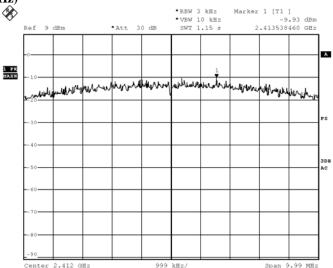


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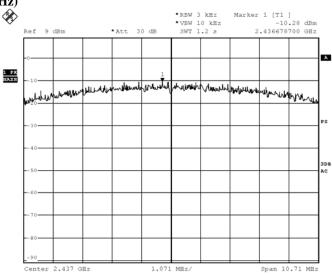
WiFi mode 802.11 b, (Tx: 2412MHz to 2462MHz)

CH 1 (2412.0 MHz)



BMP Date: 4.MAY.2015 19:06:29

CH 6 (2437.0 MHz)

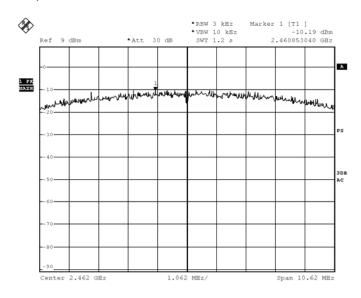


BMP Date: 4.MAY.2015 19:07:27



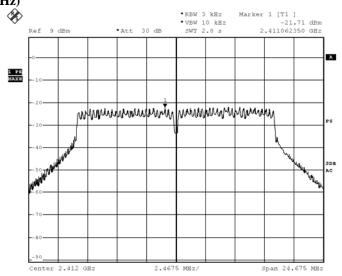
Date: 2015-05-09 Page 39 of 75 No.: DM119257

CH 11 (2462.0 MHz)



BMP Date: 4.MAY.2015 19:11:01

WiFi mode 802.11 g, (Tx:2412MHz to 2462MHz) Ch 1 (2412.0 MHz)



BMP Date: 4.MAY.2015 19:14:24

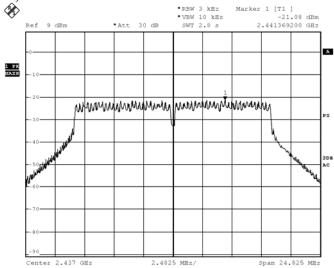
STC (Dongguan) Company Limited

68 Furnin Nan Road, Dalang, Dongguan, China. (Zip Code : 523 770)
Tel : (86 769) 8111 9888 Fax : (86 769) 8111 6222 E-mail : dgstc@dgstc.org Homepage : www.dgstc.org



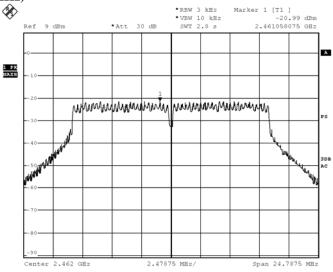
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CH 6 (2437.0 MHz)



BMP Date: 4.MAY.2015 19:13:36

CH 11 (2462.0 MHz)



BMP Date: 4.MAY.2015 19:12:20

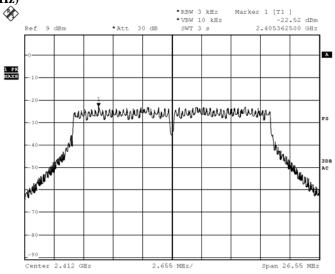


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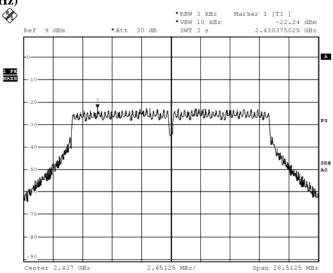
WiFi mode 802.11 n20, (Tx: 2412MHz to 2462MHz)

CH 1 (2412.0 MHz)



BMP Date: 4.MAY.2015 19:16:01

CH 6 (2437.0 MHz)



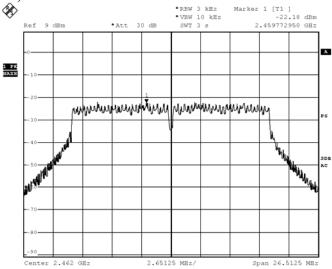
BMP Date: 4.MAY.2015 19:19:00



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Ch 11 (2462.0 MHz)

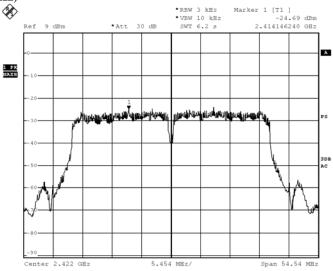


BMP

Date: 4.MAY.2015 19:20:05

WiFi mode 802.11 n40, (Tx: 2422MHz to 2452MHz)

CH 1 (2422.0 MHz)



BMP

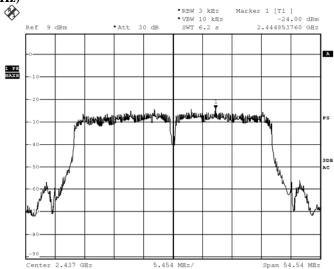
Date: 4.MAY.2015 19:22:18



Date: 2015-05-09 Page 43 of 75

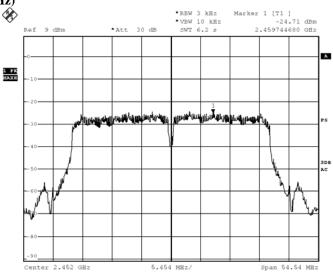
No.: DM119257

CH 6 (2437.0 MHz)



BMP Date: 4.MAY.2015 19:23:41

Ch 9 (2452.0 MHz)



BMP Date: 4.MAY.2015 19:25:10



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3.1.4 6dB Spectrum Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(2)
Test Method: ANSI C63.10:2013

Test Date: 2015-05-04 Mode of Operation: WiFi mode

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.



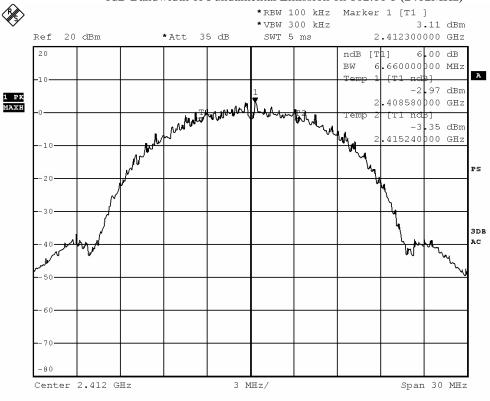
Date: 2015-05-09 Page 45 of 75

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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	6.66	> 500

6dB Bandwidth of Fundamental Emission on 802.11 b (2412MHz)



BMP

Date: 4.MAY.2015 18:29:57



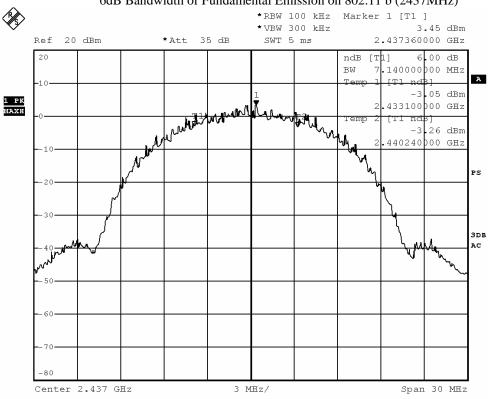
Date: 2015-05-09 Page 46 of 75

No.: DM119257

Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	7.14	> 500

6dB Bandwidth of Fundamental Emission on 802.11 b (2437MHz)



 BMP

Date: 4.MAY.2015 18:31:47



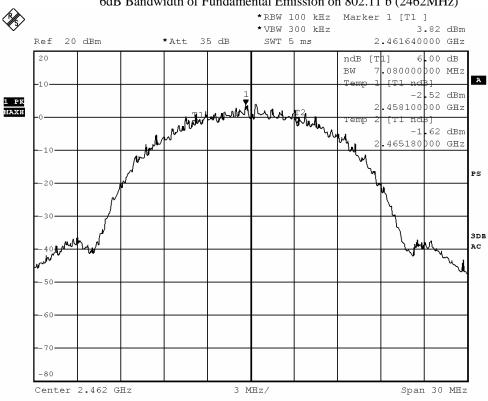
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	7.08	> 500

6dB Bandwidth of Fundamental Emission on 802.11 b (2462MHz)



BMP

Date: 4.MAY.2015 18:32:58

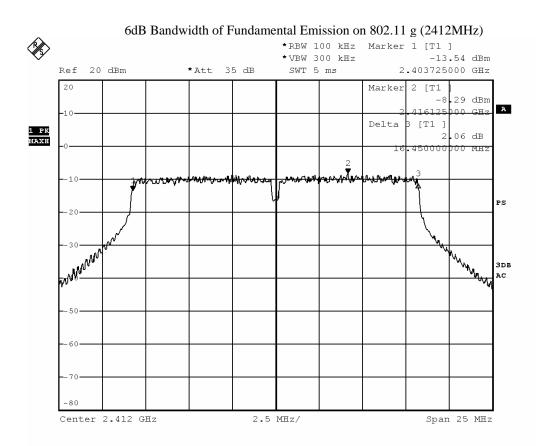


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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	16.45	> 500



BMP

Date: 4.MAY.2015 18:42:21



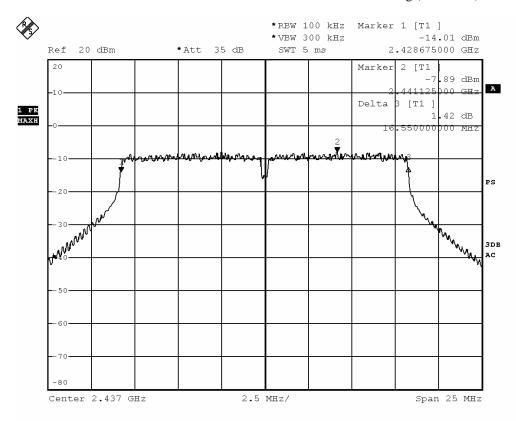
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	16.55	> 500

6dB Bandwidth of Fundamental Emission on 802.11 g (2437MHz)



BMP

Date: 4.MAY.2015 18:38:58



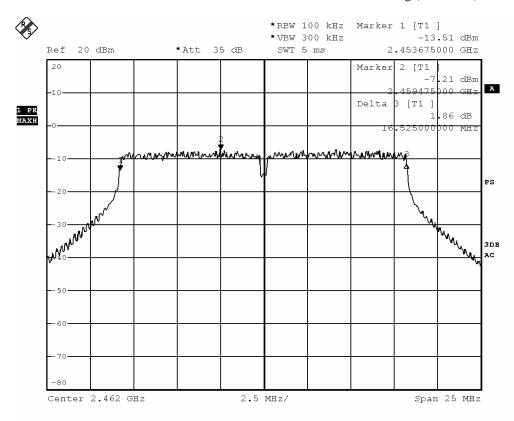
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2462.0	16.525	> 500

6dB Bandwidth of Fundamental Emission on 802.11 g (2462MHz)



BMP

Date: 4.MAY.2015 18:40:39



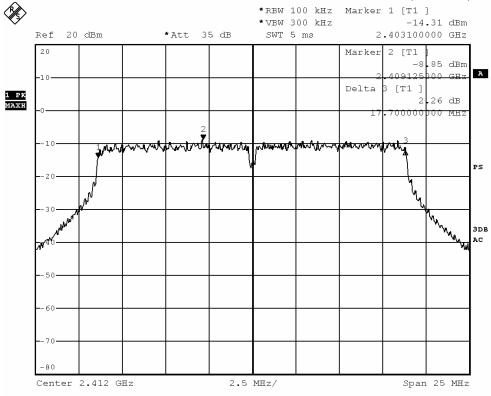
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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2412.0	17.70	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n20 (2412MHz)



BMP

Date: 4.MAY.2015 18:44:17



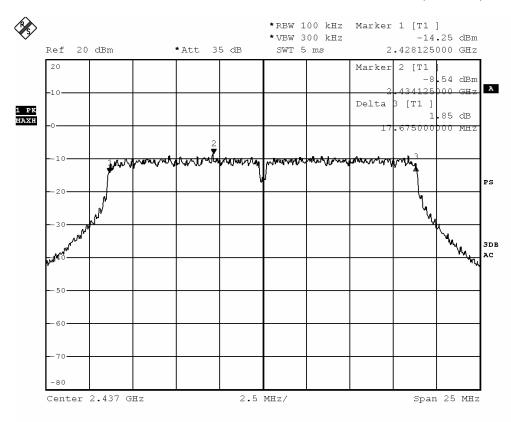
Date: 2015-05-09 Page 52 of 75

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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	17.675	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n20 (2437MHz)



BMP

Date: 4.MAY.2015 18:45:33



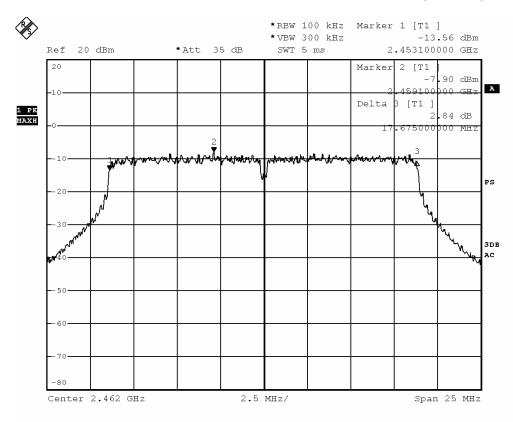
Date: 2015-05-09 Page 53 of 75

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Limits for 6dB Spectrum Bandwidth Measurement:

Frequer	ncy Range	6dB Bandwidth	FCC Limits
[N	ſHz]	[MHz]	[kHz]
24	62.0	17.675	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n20 (2462MHz)



BMP

Date: 4.MAY.2015 18:47:38



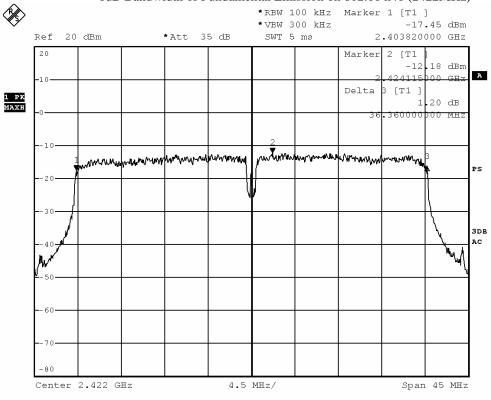
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Limits for 6dB Spectrum Bandwidth Measurement:

Center Frequency	6dB Bandwidth	FCC Limits	
[MHz]	[MHz]	[kHz]	
2422.0	36.36	> 500	

6dB Bandwidth of Fundamental Emission on 802.11 n40 (2422MHz)



BMP

Date: 4.MAY.2015 18:49:45



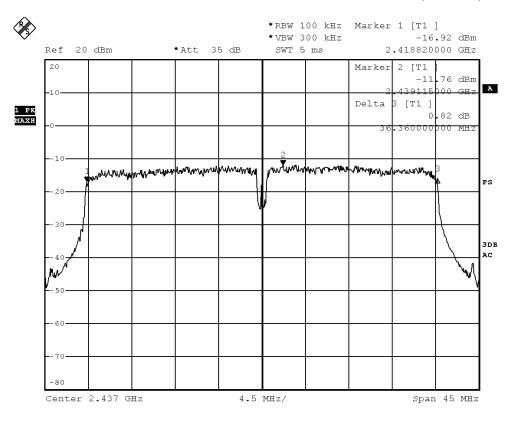
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2437.0	36.36	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n40 (2437MHz)



BMP

Date: 4.MAY.2015 18:51:29



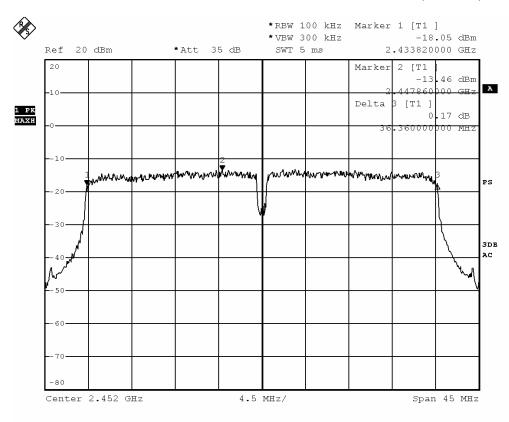
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Limits for 6dB Spectrum Bandwidth Measurement:

Frequency Range	6dB Bandwidth	FCC Limits
[MHz]	[MHz]	[kHz]
2452.0	36.36	> 500

6dB Bandwidth of Fundamental Emission on 802.11 n40 (2452MHz)



BMP

Date: 4.MAY.2015 20:05:12



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3.1.5 Band Edges Measurement

Test Requirement: FCC 47CFR 15.247 Test Method: ANSI C63.10:2013

Test Date: 2015-05-04 Mode of Operation: WiFi mode

Test Method:

The band edge is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. The RBW and VBW are set to 100kHz for this measurement.

Test Setup:

As Test Setup of clause 3.1.2 in this test report.



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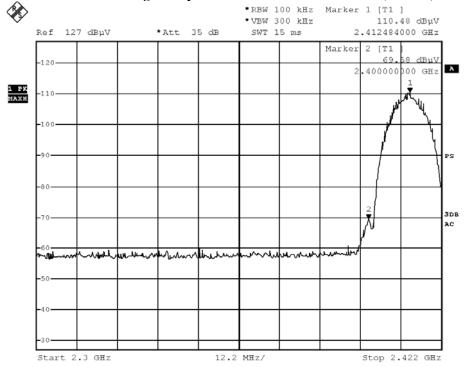
Band-edge Compliance of RF Conducted Emissions Measurement:

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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.

Frequency Range	Radiated Emission Attenuated below the		
	Fundamental		
[MHz]	[dB]		
2400 – Lowest Fundamental (2412)	40.90		

Band-edge Compliance of RF Emissions – Lowest (802.11b)



BMP

Date: 4.MAY.2015 17:03:16



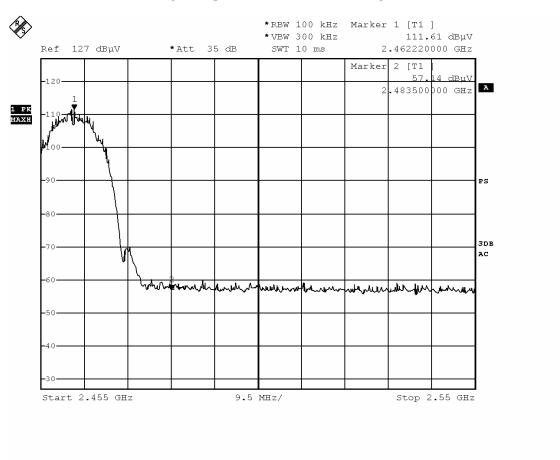
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the	
	Fundamental	
[MHz]	[dB]	
2483.5 - Highest Fundamental (2462)	54.47	

Band-edge Compliance of RF Emissions - Highest (802.11b)



BMP

Date: 4.MAY.2015 17:08:26



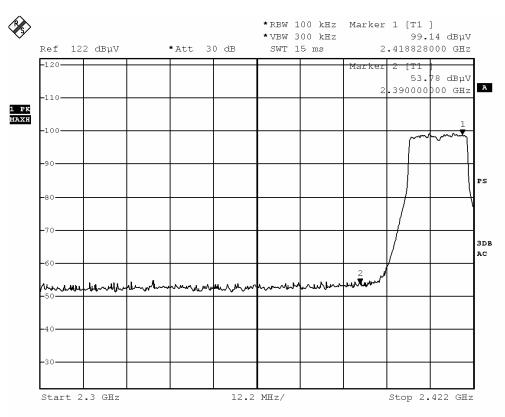
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Band-edge Compliance of RF Conducted Emissions Measurement:

	Dana-eage Compliance of Ki Conducted Emissions Wedsurement:				
	Frequency Range	Radiated Emission Attenuated below the			
		Fundamental			
	[MHz]	[dB]			
2400 – Lowest Fundamental (2412)		45.36			

Band-edge Compliance of RF Emissions – Lowest (802.11g)



BMP

Date: 4.MAY.2015 17:11:16



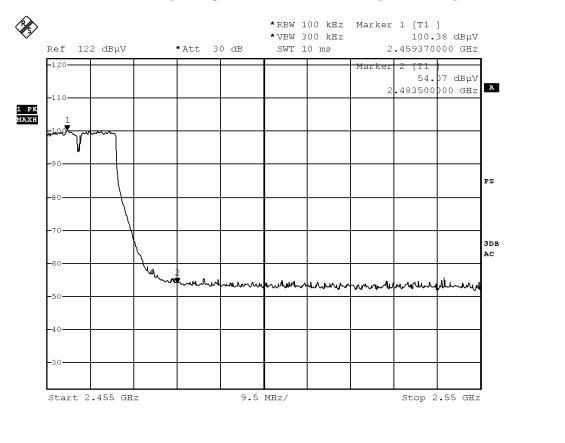
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the	
	Fundamental	
[MHz]	[dB]	
2483.5 - Highest Fundamental (2462)	46.31	

Band-edge Compliance of RF Emissions - Highest (802.11g)



BMP

Date: 4.MAY.2015 17:10:05



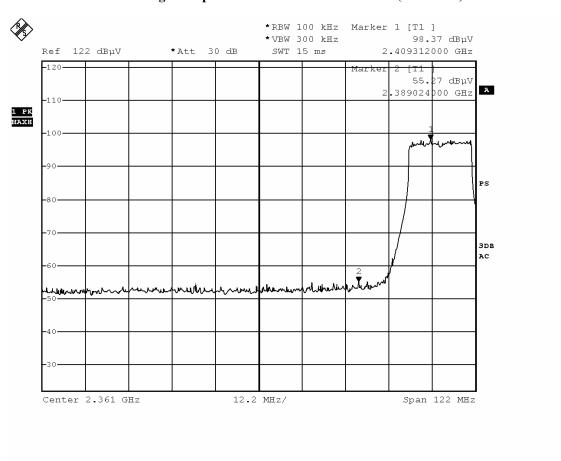
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the	
	Fundamental	
[MHz]	[dB]	
2400 – Lowest Fundamental (2412)	43.10	

Band-edge Compliance of RF Emissions - Lowest (802.11n20)



BMP

Date: 4.MAY.2015 17:13:23



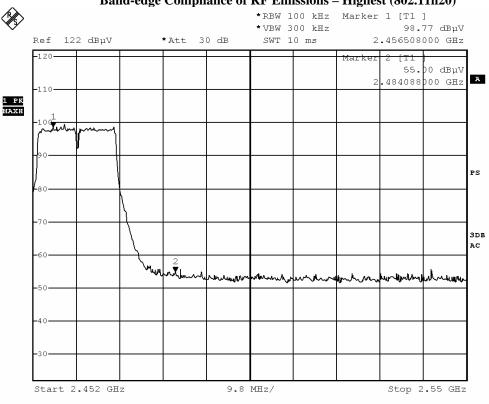
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the	
	Fundamental	
[MHz]	[dB]	
2483.5 - Highest Fundamental (2462)	43.77	

Band-edge Compliance of RF Emissions – Highest (802.11n20)



BMP

Date: 4.MAY.2015 17:14:16



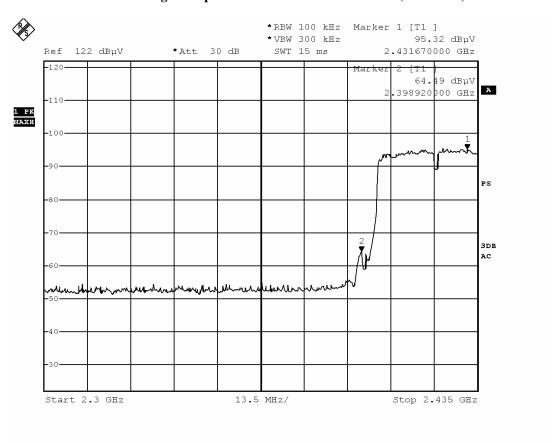
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the	
	Fundamental	
[MHz]	[dB]	
2400 – Lowest Fundamental (2422)	31.13	

Band-edge Compliance of RF Emissions - Lowest (802.11n40)



BMP

Date: 4.MAY.2015 17:16:02



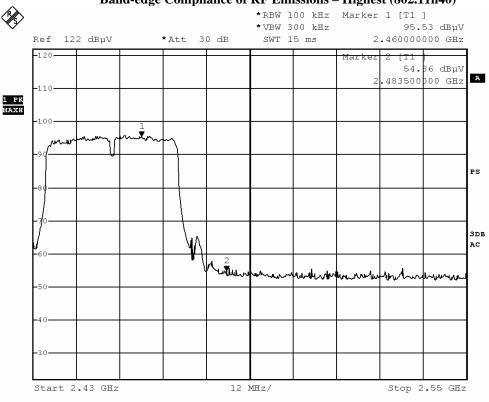
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Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range	Radiated Emission Attenuated below the	
	Fundamental	
[MHz]	[dB]	
2483.5 - Highest Fundamental (2452)	41.17	

Band-edge Compliance of RF Emissions – Highest (802.11n40)



BMP

Date: 4.MAY.2015 17:18:00

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Band-edge Compliance of RF Radiated Emissions Measurement:

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 5.205(c)).

Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11b

Field Strength of Band-edge Compliance						
Peak Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m	
2390.0	18.8	36.8	55.6	74.0	18.4	Vertical

	Field Strength of Band-edge Compliance								
Average Value									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	$dB\mu V/m$				
2390.0	3.6	36.8	40.4	54.0	13.6	Vertical			

Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11b

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	dBμV/m	$dB\mu V/m$	$dB\mu V/m$		
2483.5	17.9	36.4	54.3	74.0	19.7	Horizontal	

	Field Strength of Band-edge Compliance							
Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	dBμV/m	dBμV/m			
2483.5	3.3	36.4	39.7	54.0	14.3	Horizontal		



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Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11g

	Field Strength of Band-edge Compliance							
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$			
2390.0	16.6	36.8	53.4	74.0	20.6	Vertical		

Field Strength of Band-edge Compliance							
Average Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$		
2390.0	2.4	36.8	39.2	54.0	14.8	Vertical	

Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11g

	Field Strength of Band-edge Compliance							
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m			
2483.5	17.7	36.4	54.1	74.0	19.9	Horizontal		

Field Strength of Band-edge Compliance								
		A	verage Valu	e				
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$			
2483.5	3.6	36.4	40.0	54.0	14.0	Horizontal		

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Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11n20

	Field Strength of Band-edge Compliance							
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m			
2390.0	18.5	36.8	55.3	74.0	18.7	Vertical		

Field Strength of Band-edge Compliance								
Average Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$			
2390.0	4.6	36.8	41.4	54.0	12.6	Vertical		

Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11n20

	Field Strength of Band-edge Compliance							
Peak Value								
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m			
2483.5	18.6	36.4	55.0	74.0	19.0	Horizontal		

Field Strength of Band-edge Compliance								
		A	verage Valu	e				
Frequency	Measured	Correction	Field	Limit	Margin	E-Field		
	Level @3m	Factor	Strength	@3m		Polarity		
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	$dB\mu V/m$			
2483.5	3.7	36.4	40.1	54.0	13.9	Horizontal		



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Result: Band-edge Compliance of RF Radiated Emissions (Lowest)-802.11n40

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$		
2390.0	18.1	36.8	54.9	74.0	19.1	Vertical	

Field Strength of Band-edge Compliance						
Average Value						
Frequency	Measured	asured Correction Field		Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\muV/m$	$dB\mu V/m$	
2390.0	3.4	36.8	40.2	54.0	13.8	Vertical

Result: Band-edge Compliance of RF Radiated Emissions (Highest) -802.11n20

Field Strength of Band-edge Compliance							
Peak Value							
Frequency	Measured	Correction	Field	Limit	Margin	E-Field	
	Level @3m	Factor	Strength	@3m		Polarity	
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m		
2483.5	18.3	36.4	54.7	74.0	19.3	Horizontal	

Field Strength of Band-edge Compliance						
Average Value						
Frequency	Measured	Correction	Field	Limit	Margin	E-Field
	Level @3m	Factor	Strength	@3m		Polarity
MHz	dΒμV	dB/m	$dB\mu V/m$	$dB\mu V/m$	dBμV/m	
2483.5	3.4	36.4	39.8	54.0	14.2	Horizontal



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3.1.6 RF Exposure

Test Requirement: FCC 47CFR 15.247(i)

Test Date: 2015-05-06 Mode of Operation: WiFi mode

Test Method:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

Test Results:

The EUT complied with the requirement(s) of this section. EUT meets the requirements of these sections as proven through MPE calculation The MPE calculation for EUT @ 20 cm Based on the highest P = 54.013 mW

```
Pd = PG/ 4pi*R<sup>2</sup> = (54.013 x 1.99)/12.566* (20)<sup>2</sup>
= (107.48587)/12.566x 400= 107.48587 /5026.4
= 0.02138mW/cm<sup>2</sup>
```

where:

- *Pd = power density in mW/cm2
- * G = Antenna numeric gain (1.99); Log G = g/10 (g = 2.98dBi).
- * P = Conducted RF power to antenna (54.013 mW).
- * R = Minimum allowable distance.(20 cm)
- *The power density $Pd = 0.02138 \text{mW/cm}^2$ is less than 1 mW/cm² (listed MPE limit)
- *The SAR evaluation is not needed (this is a desk top device, R> 20 cm)
- * The EUT(antenna) must be 0.2 meters away from the General Population.



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Appendix A

Appendix A

List of Measurement Equipment

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EMD004	LISN	ROHDE & SCHWARZ	ESH3-Z5	100102	2015.3.24	2016.3.24
EMD022	EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100314	2015.3.24	2016.3.24
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2014.06.10	2015.06.10
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB 26	100388	2014.06.10	2015.06.10
EMD041	TWO-LINE V- NETWORK	ROHDE & SCHWARZ	ENV216	100261	2015.3.24	2016.3.24
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2014.11.29	2016.11.29
EMD062	Double-Ridged Waveguide (1GHz – 18GHz)	ETS.LINDGREN	3117	00075933	2014.11.15	2015.11.15
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A	N/A
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A	N/A
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2015.3.24	2016.3.24
	100V Insertion Unit	ROHDE & SCHWARZ	URV5-Z4	100464	2015.3.24	2016.3.24
EMD113	Pre-Amplifier	ROHDE & SCHWARZ	N/A	1129588	2015.3.24	2016.3.24
EMD124	Loop Antenna	ETS-Lindgren	6502	00104905	2014.04.28	2016.04.28
EMD131	Standard Gain Horn Antenna (18GHz – 26.5GHz)	Chengdu AINFO lnc.	JXTXLB-42- 15-C-KF	J2021100721001	2015.04.09	2017.04.09

Remarks:-

N/A Not Applicable or Not Available



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Appendix B

Photographs of EUT

Front View of the product



Inside View of the product



Inner Circuit Bottom View



Rear View of the product



Inner Circuit Top View



Inner Circuit Top View





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Photographs of EUT

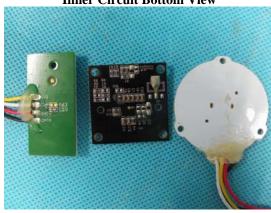
Inner Circuit Bottom View



Inner Circuit Top View



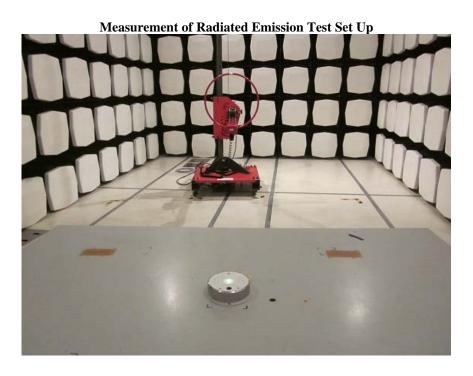
Inner Circuit Bottom View

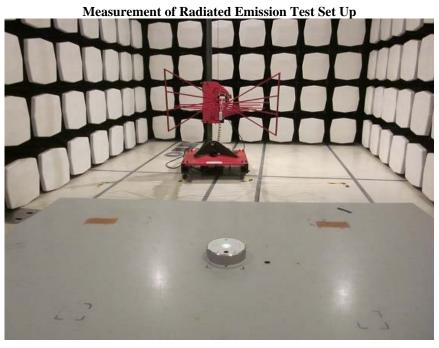




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Photographs of EUT



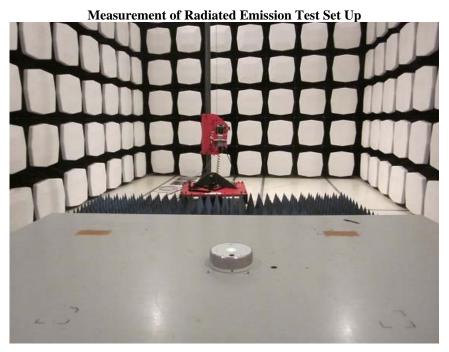




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Photographs of EUT



***** End of Test Report *****