

TEST REPORT

FCC ID: 2ACMYAWF53

Product: HD Outdoor PT Network Camera

Model No.: AWF53

Additional Model No.: N/A

Trade Mark: N/A

Report No.: TCT170619E003

Issued Date: Jul. 10, 2017

Issued for:

Atoms Labs LLC

2670 Firewheel Dr. Suite D Flower Mound, TX 75028, USA

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Report No.: TCT170619E003

Product:	HD Outdoor PT Network Camera		
Model No.:	AWF53		
Additional Model:	N/A		
Trade Mark:	N/A		
Applicant:	Atoms Labs LLC		
Address:	2670 Firewheel Dr. Suite D Flower Mound, TX 75028, USA		
Manufacturer:	Atoms Labs LLC		
Address:	2670 Firewheel Dr. Suite D Flower Mound, TX 75028, USA		
Date of Test:	Jun. 20, 2017 – Jul. 07, 2017		
Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04			

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Jin Wang	Date:	Jul. 07, 2017
Reviewed By:	Jin Wang	Date:	Jul. 10, 2017
Approved By:	Joe Zhou Toms m	Date:	Jul. 10, 2017
	Tomsin		



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



3. EUT Description

Product:	HD Outdoor PT Network Camera		
Model No.:	AWF53		
Additional Model:	N/A		
Trade Mark:	N/A		
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))		
Channel Separation:	5MHz		
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)		
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)		
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)		
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps		
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps		
Data speed (IEEE 802.11n):	Up to 150Mbps		
Antenna Type:	External Antenna		
Antenna Gain:	3.0dBi		
Adapter:	Adapter Information 1: Model: GQ15-050150-AU Input: 100-240V, 50/60Hz, 0.5A Max Output: DC 5.0V, 1.5A Adapter Information 2: Model: KSAS0120500150HU Input: 100-240V, 50/60Hz, 0.4A Output: DC 5.0V, 1.5A Adapter Information 3: Model: CS12N050150FUF Input: 100-240V, 50/60Hz, 500mA Output: DC 5.0V, 1.5A Adapter Information 4: Model: KT12W050150US Input: 100-240V, 50/60Hz, 0.4A Output: DC 5.0V, 1.5A		

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Operation Frequency each of channel For 802.11b/g/n(HT20)

		-		- V	<u> </u>		
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	(xC)	4	2427MHz	7	2442MHz	(C_{-})	
	-	5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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4. Genera Information

4.1. Test environment and mode

Operating Environment:				
25.0 °C				
56 % RH				
1010 mbar				
Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)				

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m 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 the 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. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps
Final Test Mode:	

Operation mode:	Keep the EUT in continuous transmitting
	with modulation

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20),



13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



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4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1	1	1	I

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-2767333

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WIFI antenna is external antenna which antenna is R-SMA connector and unique antenna connector, and the best case gain of the antenna is 3.0dBi.



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6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013	(01)			
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto		
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	(MHz) Quasi-peak Av 0.15-0.5 66 to 56* 56 0.5-5 56			
Test Setup:	Test table/Insulation plane Remark: E.U.T AC power	E.U.T AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network			
Test Mode:	Charging + transmittin	g with modulation			
Test Procedure:	 Charging + transmitting with modulation The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/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 refer 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: 2013 on conducted measurement. 				
Test Result:	PASS				

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6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018		
LISN	Schwarzbeck	NSLK 8126	8126453	Oct. 13, 2017		
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Oct. 13, 2017		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

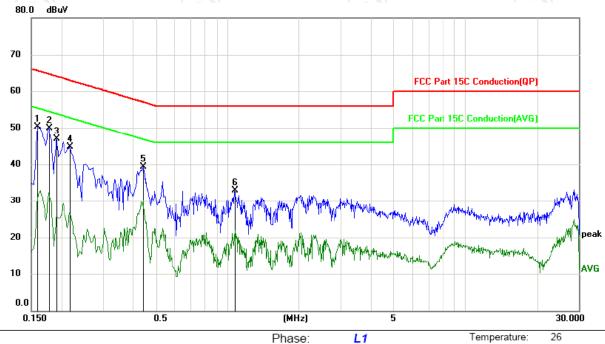
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6.2.3. Test data

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Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site	Phase:	L1	remperature:	26
Limit: FCC Part 15C Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1590	38.89	11.49	50.38	65.52	-15.14	peak	
2	*	0.1770	38.52	11.48	50.00	64.63	-14.63	peak	
3		0.1905	35.37	11.47	46.84	64.01	-17.17	peak	
4		0.2175	33.15	11.46	44.61	62.91	-18.30	peak	
5		0.4425	28.03	11.34	39.37	57.01	-17.64	peak	
6		1.0725	21.69	11.25	32.94	56.00	-23.06	peak	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

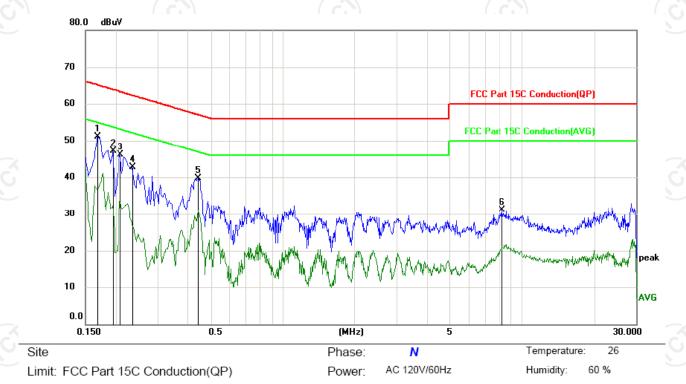
 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1 *	0.1680	39.60	11.49	51.09	65.06	-13.97	peak	
2	0.1949	35.71	11.47	47.18	63.83	-16.65	peak	,
3	0.2085	34.71	11.47	46.18	63.26	-17.08	peak	
4	0.2355	31.17	11.45	42.62	62.25	-19.63	peak	
5	0.4425	28.33	11.34	39.67	57.01	-17.34	peak	
6	8.2635	20.04	11.12	31.16	60.00	-28.84	peak	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

The Conducted Emission of the EUT with adapter 1, adapter 2, adapter 3 and adapter 4 are all tested, but the result of adapter 1 is the worst, and only the worst result is recorded in the report.



6.2.4. Maximum Conducted (Average) Output Power

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6.2.5. Test Specification

12 0				
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)			
Test Method:	KDB 558074			
Limit:	30dBm			
Test Setup:	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 Transmitting mode with modulation The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 			
Test Result:	PASS			

6.2.6. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017	
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017	
Antenna Connector	TCT	RFC-01	N/A	Oct. 13, 2017	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	KDB 558074			
Limit:	>500kHz			
Test Setup:				
	Spectrum Analyzer EUT			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	 The testing follows FCC KDB Publication No. 55807 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to mak an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 			
Test Result:	PASS			

6.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017	
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017	
Antenna Connector	тст	RFC-01	N/A	Oct. 13, 2017	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4. Power Spectral Density

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

	RI	F Test Room	1	
Equipment	Manufacturer	nufacturer Model		Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Oct. 13, 2017
Antenna Connector	TCT	RFC-01	N/A	Oct. 13, 2017

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and 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).
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

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6.5.2. Test Instruments

	RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 13, 2017					
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Oct. 13, 2017					
Antenna Connector	TCT	RFC-01	N/A	Oct. 13, 2017					

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



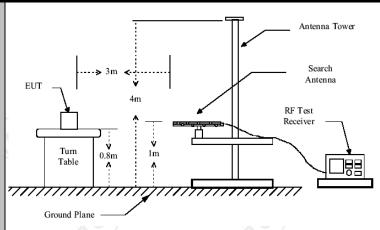
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6.6. Radiated Spurious Emission Measurement

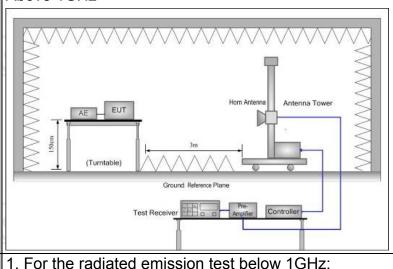
6.6.1. Test Specification

Test Requirement:	FCC Part15	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10	0: 2013							
Frequency Range:	9 kHz to 25 (GHz							
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal &	Vertical							
Operation mode:	Transmitting	mode wit	th modulat	ion					
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea Quasi-pea		VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value			
Receiver Setup:	30MHz 30MHz-1GHz Above 1GHz	Quasi-pea Peak Peak	k 100KHz 1MHz 1MHz	300KHz 3MHz 10Hz	P	si-peak Value eak Value erage Value			
Limit:	Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960		Field Stre (microvolts 2400/F(I 24000/F(I 30 100 150 200 500 d Strength ovolts/meter) 500	/meter) KHz) (KHz)	Dista ment ce	asurement nce (meters) 300 30 30 3 3 3 3 3 Detector Average Peak			
Test setup: Test setup: Test setup:					ir I				
	30MHz to 10	SHz							

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Above 1GHz



The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the

Test Procedure:

interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final

Report No.: TCT170619E003 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$,

> when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Test results:

PASS



6.6.2. Test Instruments

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	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Oct. 13, 2017
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Oct. 13, 2017
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Oct. 13, 2017
Pre-amplifier	HP	8447D	2727A05017	Oct. 13, 2017
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 13, 2017
Broadband Antenna	Schwarzbeck	VULB9163	340	Oct. 13, 2017
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 13, 2017
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Oct. 13, 2017
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Oct. 13, 2017
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Oct. 13, 2017
Coax cable (9KHz-40GHz)	ТСТ	RE-high-04	N/A	Oct. 13, 2017
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

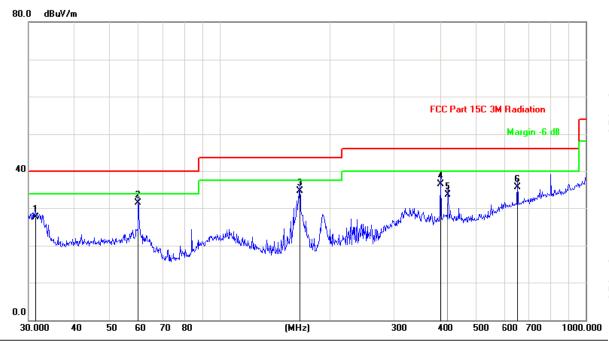
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Report No.: TCT170619E003

6.6.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

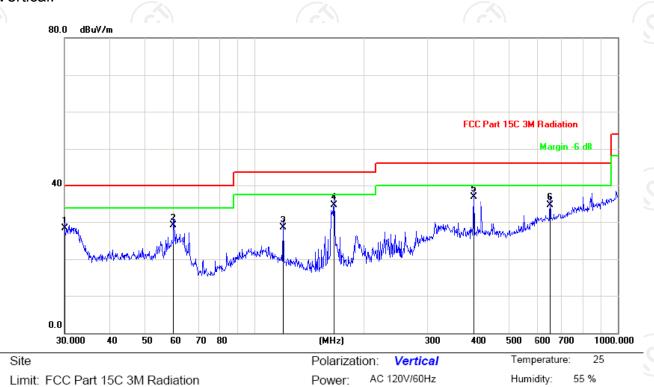


Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		31.2893	35.49	-7.89	27.60	40.00	-12.40	QP			
2	*	59.8588	39.02	-7.42	31.60	40.00	-8.40	QP			
3		165.4866	44.75	-9.95	34.80	43.50	-8.70	QP			
4		400.4319	37.97	-1.47	36.50	46.00	-9.50	QP			
5		419.1081	35.29	-1.59	33.70	46.00	-12.30	QP			
6		651.9417	32.82	2.98	35.80	46.00	-10.20	QP			

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Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		30.0000	36.42	-8.02	28.40	40.00	-11.60	QP			
2		59.8588	36.52	-7.42	29.10	40.00	-10.90	QP			
3	,	119.8556	37.20	-8.70	28.50	43.50	-15.00	QP			
4	* /	165.4866	44.65	-9.95	34.70	43.50	-8.80	QP			
5	4	400.4319	38.37	-1.47	36.90	46.00	-9.10	QP			
6	(351.9417	31.82	2.98	34.80	46.00	-11.20	QP			

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Middle channel and 802.11b) was submitted only.

The Radiated Emission of the EUT with adapter 1, adapter 2, adapter 3 and adapter 4 are all tested, but the result of adapter 1 is the worst, and only the worst result is recorded in the report.



Test Result of Radiated Spurious at Band edges Modulation Type: 802.11b

	Modulation Type: 662:116									
)	Low channel: 2412 MHz									
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
	2310	Н	45.85	-4.20	41.65	74.00	54.00			
	2377.38	Н	48.32	-4.10	44.22	74.00	54.00			
	2390	Н	53.42	-3.94	49.48	74.00	54.00			
	2310	V	44.19	-4.20	39.99	74.00	54.00			
	2377.38	V	54.22	-4.10	50.12	74.00	54.00			
	2390	V	55.76	-3.94	51.82	74.00	54.00			

Modulation Type: 802.11b

High channel: 2462 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)		
2483.5	Н	51.17	-3.60	47.57	74.00	54.00		
2487.09	Н	47.80	-3.50	44.3	74.00	54.00		
2500	Н	45.21	-3.34	41.87	74.00	54.00		
2483.5	V	54.84	-3.60	51.24	74.00	54.00		
2487.09	V	47.21	-3.50	43.71	74.00	54.00		
2500	V	42.54	-3.34	39.2	74.00	54.00		

Modulation Type: 802.11g

		111044	idiloit Typo. oo	9						
	Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV) Correction Factor (dB/m) Peak Final Emission Level		Peak limit (dBµV/m)	AV limit (dBµV/m)					
2310	Н	43.11	-4.20	38.91	74.00	54.00				
2388.96	Н	50.78	-4.12	46.66	74.00	54.00				
2390	Н	53.42	-3.94	49.48	74.00	54.00				
2310	V	45.73	-4.20	41.53	74.00	54.00				
2388.96	V-	49.62	-4.12	45.5	74.00	54.00				
2390	V	54.18	-3.94	50.24	74.00	54.00				

Modulation Type: 802.11g

	High channel: 2462 MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
2483.5	Н	52.41	-3.60	48.81	74.00	54.00			
2487.59	Н	50.07	-3.52	46.55	74.00	54.00			
2500	Н	46.73	-3.34	43.39	74.00	54.00			
2483. 5	V	51.60	-3.60	48.00	74.00	54.00			
2487.59	V	47.74	-3.52	44.22	74.00	54.00			
2500	V	47.51	-3.34	44.17	74.00	54.00			



Modulation Type: 802.11n(20MHz)

-	modulation Type: 602:1 Th(20th 12)									
	Low channel: 2412 MHz									
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)			
Ī	2310	Н	46.52	-4.20	42.32	74.00	54.00			
Ī	2388.01	Н	53.64	-4.10	49.54	74.00	54.00			
	2390	H	54.76	-3.94	50.82	74.00	54.00			
	2310	V	48.01	-4.20	43.81	74.00	54.00			
	2388.01	V	54.38	-4.10	50.28	74.00	54.00			
	2390	V	55.55	-3.94	51.61	74.00	54.00			

Modulation Type: 802.11n(20MHz)

	High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)				
2483.5	Н	52.61	-3.60	49.01	74.00	54.00				
2392.55	2392.55 H		-3.50	48.06	74.00	54.00				
2500	Н	47.73	-3.34	44.39	74.00	54.00				
2483. 5	2483. 5 V 2392.55 V		-3.60	49.65	74.00	54.00				
2392.55			-3.50	47.22	74.00	54.00				
2500	V	48.65	-3.34	45.31	74.00	54.00				

Modulation Type: 802.11n(40MHz)

			Modulation	11 Type. 002.11	II(TOIVII IZ)						
\	Low channel: 2422 MHz										
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)				
	2310	Н	50.82	-4.20	46.62	74.00	54.00				
	2387.85	Н	55.04	-4.10	50.94	74.00	54.00				
	2390	Н	52.61	-3.94	48.67	74.00	54.00				
	2310	V	51.43	-4.20	47.23	74.00	54.00				
	2389.98	V	50.65	-4.10	46.55	74.00	54.00				
	2390	V	49.71	-3.94	45.77	74.00	54.00				

Modulation Type: 802.11n(40MHz)

	Modalation Type: 662. Till (16Mil 12)											
	High channel: 2452 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)						
2483.5	Н	52.46	-3.60	48.86	74.00	54.00						
2493.51	Н	54.34	-3.50	50.84	74.00	54.00						
2500	Н	49.61	-3.34	46.27	74.00	54.00						
2493.51	V	54.23	-3.60	50.63	74.00	54.00						
2489.36	V	52.83	-3.46	49.37	74.00	54.00						
2500	V	50.92	-3.34	47.58	74.00	54.00						

Note:

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier

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Above 1GHz

Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4824	Н	50.73		0.75	51.48		74	54	-2.52	
7236	Н	41.41	4-6	9.87	51.28		74	54	-2.72	
	Н				'	<i>-</i>		4		
4824	V	49.73		0.75	50.48		74	54	-3.52	
7236	V	41.57		9.87	51.44		74	54	-2.56	
	V			((

	Middle channel: 2437MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ΑV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4874	CH	49.46	(- 0)	0.97	50.43	(C)	74	54	-3.57		
7311	H	41.17	-22	9.83	51.00		74	54	-3.00		
	Η										
4874	V	49.43		0.97	50.40		74	54	-3.60		
7311	V	40.73		9.83	50.56		74	54	-3.44		
<i></i>	V				<i></i>						

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Ŧ	49.53		1.18	50.71		74	54	-3.29		
7386	Н	39.61		10.07	49.68		74	54	-4.32		
	Н										
K					X 1						
4924	V	49.82		1.18	51.00		74	54	-3.00		
7386	V	40.51		10.07	50.58		74	54	-3.42		
	V										

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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Report No.: TCT170619E003

Low channel: 2412 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Η	49.35		0.75	50.10		74	54	-3.90
7236	Η	40.67		9.87	50.54		74	54	-3.46
	H								
				\				(6)	
4824	V	47.52	×)	0.75	48.27	7	74	54	-5.73
7236	V	40.66		9.87	50.53		74	54	-3.47
	V								

			М	iddle chanr	nel: 2437MF	·lz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ΑV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	48.15		0.97	49.12		74	54	-4.88
7311	H	40.23	7/4	9.83	50.06		74	54	-3.94
(Н		[- C]		(· C - 1		(- 6)	
~									7
4874	V	47.35		0.97	48.32		74	54	-5.68
7311	V	40.36		9.83	50.19		74	54	-3.81
	V								

. 1						1 1				
High channel: 2462 MHz										
Fr	requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4924	H	47.71		1.18	48.89		74	54	-5.11
	7386	KO H	39.26	70	10.07	49.33		74	54	-4.67
		H								
	4924	V	46.56		1.18	47.74		74	54	-6.26
7	7386	V	40.23		10.07	50.30		74	54	-3.70
)	V	(-G)		(, ((` ` `		(-e)		(, (

Note:

- 3. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 4. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 5. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 6. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 7. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Report No.: TCT170619E003

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4824	Н	49.03		0.75	49.78		74	54	-4.22	
7236	Н	40.62		9.87	50.49		74	54	-3.51	
	H									
4824	V	47.56	X	0.75	48.31	<i>-</i>	74	54	-5.69	
7236	V	40.23		9.87	50.10)	74	54	-3.90	
	V									

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ΑV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Η	47.31		0.97	48.28		74	54	-5.72
7311	Ŧ	40.45	7/4	9.83	50.28		74	54	-3.72
(H		[- C]		((-6)	
				/					
4874	V	47.38		0.97	48.35		74	54	-5.65
7311	V	40.13		9.83	49.96		74	54	-4.04
	V								

	High channel: 2462 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4924	Н	48.14		1.18	49.32		74	54	-4.68	
7386	H	40.62	70	10.07	50.69	(O-7	74	54	-3.31	
	Ŧ									
4924	V	47.04		1.18	48.22		74	54	-5.78	
7386	V	40.26		10.07	50.33		74	54	-3.67	
5)	V	(, C ,)		(, ((``ر		(.e.)		(, (

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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Modulation Type: 802.11n (HT40)

1	Low channel: 2422 MHz									
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4844	Η	45.92		0.66	46.58		74	54	-7.42
	7266	Н	38.52		9.5	48.02	-	74	54	-5.98
	(Н				(/	
Ī	1			K)	/	7			KO)	
Ī	4824	V	44.55		0.66	45.21		74	54	-8.79
	7236	V	35.63		9.5	45.13		74	54	-8.87
\prod		V								

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Ţ	42.96		0.99	43.95		74	54	-10.05
7311	H	34.62	(- 6)	9.85	44.47	.6.24	74	54	-9.53
	Н					<u></u>			
4874	V	43.74		0.99	44.73		74	54	-9.27
7311	V	37.38		9.85	47.23		74	54	-6.77
	V			(. c					(.

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	OH	45.25	FO.	1.33	46.58	(O-)	74	54	-7.42
7356	Ŧ	36.23		10.22	46.45		74	54	-7.55
	Н								
4904	V	43.51		1.33	44.84		74	54	-9.16
7356	V	36.41		10.22	46.63		74	54	-7.37
J	V								(

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



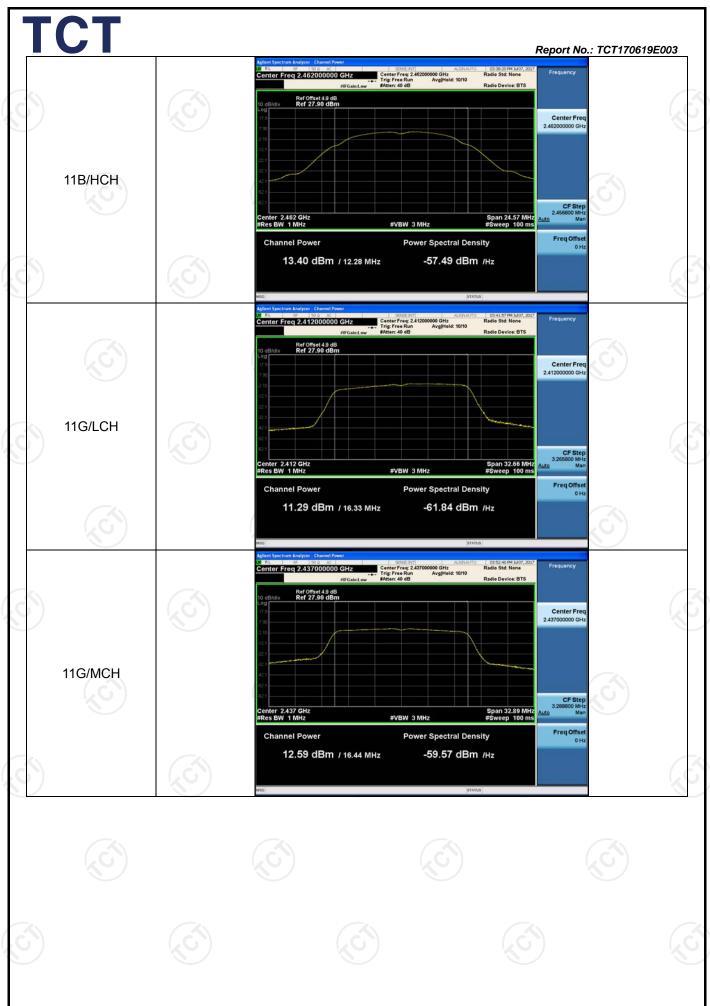
Appendix A: Test Result of Conducted Test Conducted Average Output Power

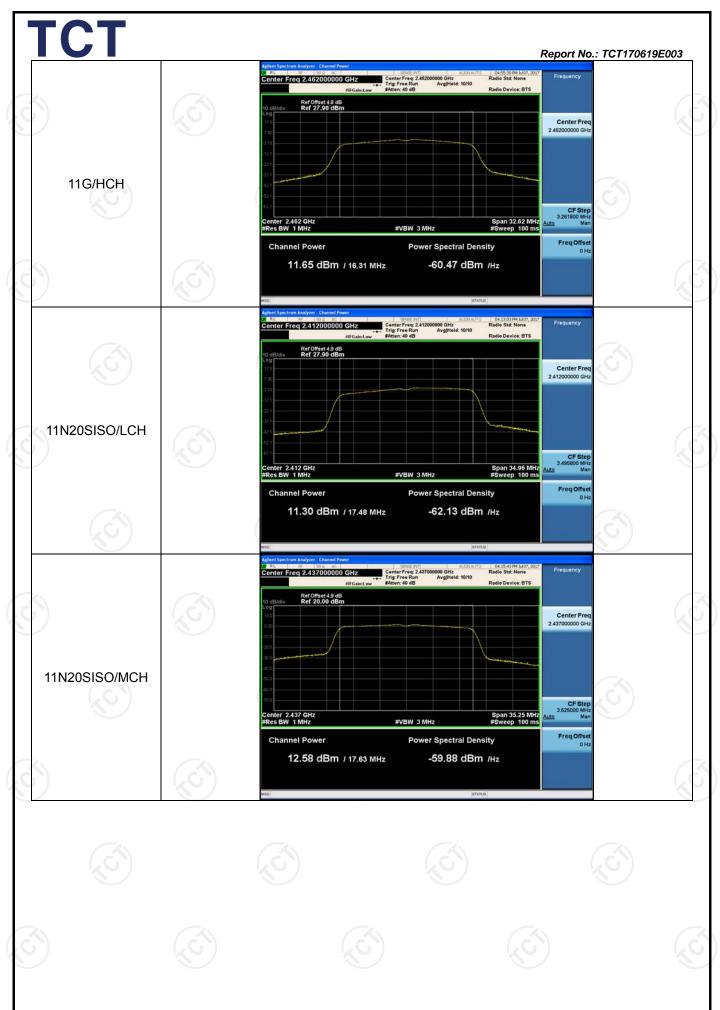
Result Table

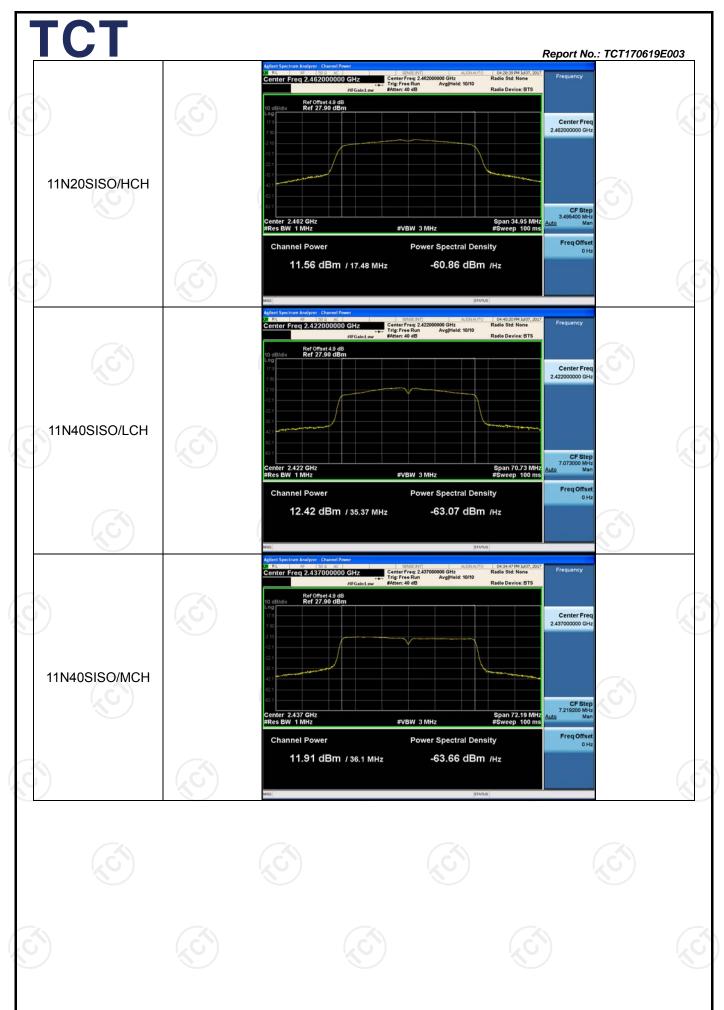
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	13.79	PASS
11B	MCH	14.35	PASS
11B	HCH	13.40	PASS
11G	LCH	11.29	PASS
11G	MCH	12.59	PASS
11G	HCH	11.65	PASS
11N20SISO	LCH	11.30	PASS
11N20SISO	MCH	12.58	PASS
11N20SISO	HCH	11.56	PASS
11N40SISO	LCH	12.42	PASS
11N40SISO	MCH	11.91	PASS
11N40SISO	HCH	11.54	PASS

Test Graph









TCT Report No.: TCT170619E003 04:37:15 PM 3J/07, 2 Radio Std: None Ref Offset 4.9 dB Ref 27.90 dBm Center Free 2.452000000 GH 11N40SISO/HCH CF Step 7.150200 MH: Mar Span 71.5 MHz #Sweep 100 ms #VBW 3 MHz Channel Power Power Spectral Density 11.54 dBm / 35.75 MHz -63.99 dBm /Hz



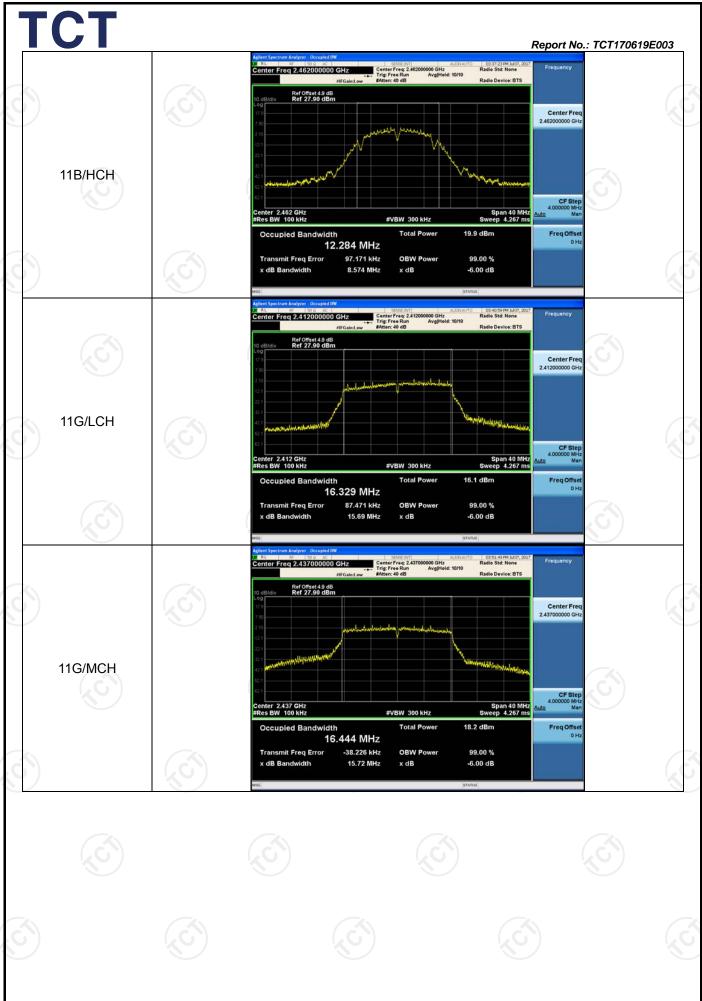
6dB Occupied Bandwidth

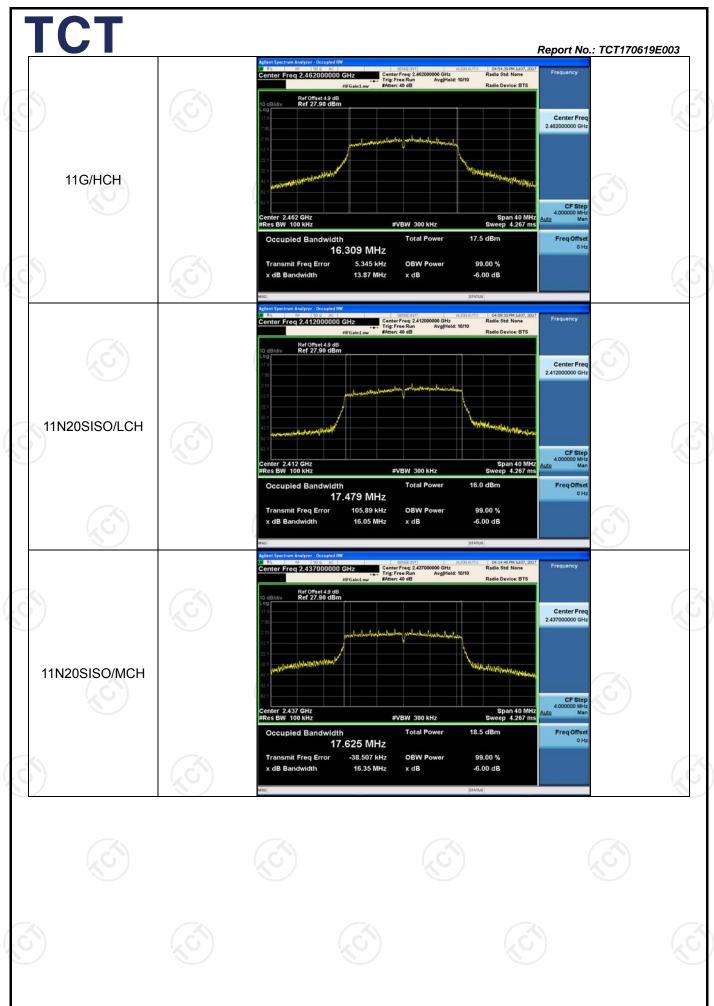
Result Table

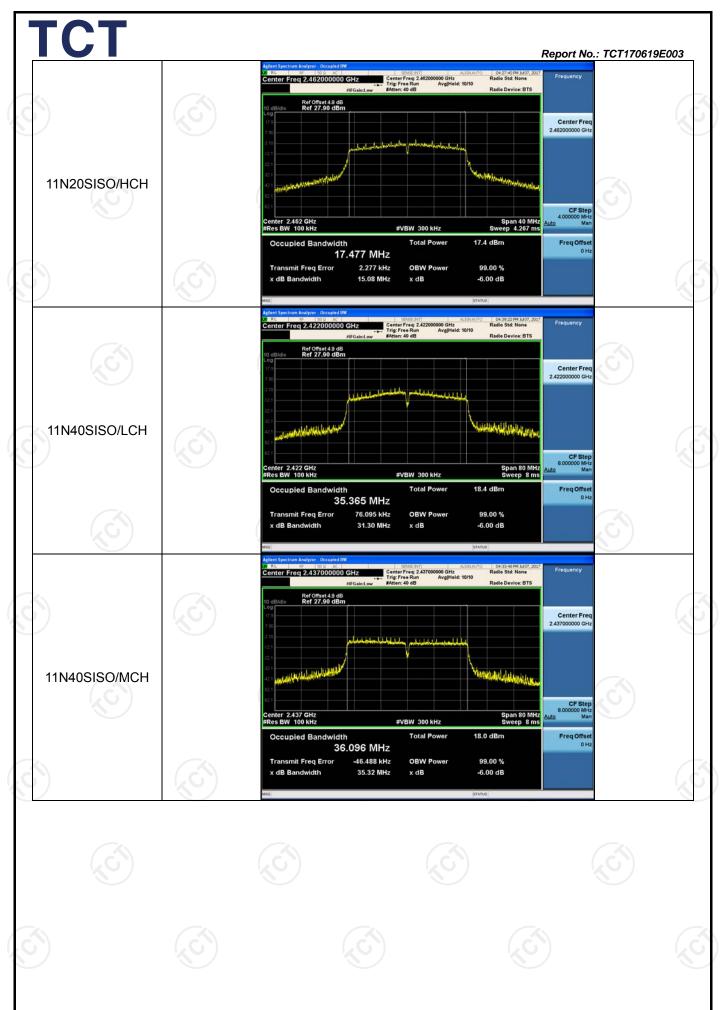
Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	9.097	12.415	PASS
11B	MCH	10.05	12.682	PASS
11B	HCH	8.574	12.284	PASS
11G	LCH	15.69	16.329	PASS
11G	MCH	15.72	16.444	PASS
11G	HCH	13.87	16.309	PASS
11N20SISO	LCH	16.05	17.479	PASS
11N20SISO	MCH	16.35	17.625	PASS
11N20SISO	HCH	15.08	17.477	PASS
11N40SISO	LCH	31.30	35.365	PASS
11N40SISO	MCH	35.32	36.096	PASS
11N40SISO	HCH	35.07	35.751	PASS

Test Graph









TCT Report No.: TCT170619E003 04:36:18 PM 3J/07, 2 Radio Std: None Ref Offset 4.9 dB Ref 27.90 dBm Center Free 2.452000000 GH 11N40SISO/HCH CF Step 8.000000 MHs Mar Occupied Bandwidth
35.751 MHz 17.3 dBm 81.738 kHz Transmit Freq Error **OBW Power** 99.00 % 35.07 MHz -6.00 dB x dB



Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.012	-45.165	-24.99	PASS
11B	HCH	4.481	-45.349	-25.52	PASS
11G	LCH	0.100	-45.230	-29.9	PASS
11G	HCH	0.762	-43.943	-29.24	PASS
11N20SISO	LCH	0.017	-44.612	-29.98	PASS
11N20SISO	HCH	0.377	-43.129	-29.62	PASS
11N40SISO	LCH	-0.729	-38.142	-30.73	PASS
11N40SISO	HCH	-1.477	-34.811	-31.48	PASS

Test Graph

