

TEST REPORT

FCC ID: BBO5210

Product: Sports camera

Model No.: WASPcam 5210

Additional Model: N/A

Cobra

Trade Mark:

Report No.: TCT160712E007

Issued Date: Aug. 23, 2016

Issued for:

Cobra Electronics Corporation
6500 West Cortland Street Chicago, IL 60707 USA

Issued By:

Shenzhen Tongce Testing Lab.

1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

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1. Test Certification

Product:	Sports camera
Model No.:	WASPcam 5210
Additional Model No.:	N/A (3)
Applicant:	Cobra Electronics Corporation
Address:	6500 West Cortland Street Chicago, IL 60707 USA
Manufacturer:	Guangzhou Yaozhong Electronics Co., Ltd.
Address:	No.2, Shaxing Road, Shajiao, Lanhe, Nansha district, Guangzhou, China
Date of Test:	July 12 – Aug. 22, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05

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:

Garen

Date: Aug. 22, 2016

Reviewed By:

Date: Aug. 23, 2016

Joe Zhou

Approved By:

Date: Aug. 23, 2016

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

- 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 Name:	Sports camera		
Model :	WASPcam 5210		
Additional Model:	N/A		
Trade Mark:	S ,Cobra		
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))		
Channel Separation:	5MHz		
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)		
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:	Internal Antenna		
Antenna Gain:	0dBi		
Power Supply:	Rechargeable Li-ion Battery DC3.7V		

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

Ξ	position is equally earlies as an annual rest establishment							
(Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
I	1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz	(0)	

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



4. Genera Information

4.1. Test environment and mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	56 % RH				
Atmospheric Pressure:	1010 mbar				
Test Mode:					
Engineering mode:	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.

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

Final Test Mode:

Operation mode:		Keep the EUT in continuous transmitting	
		with modulation	

According to ANSI C63.4 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.

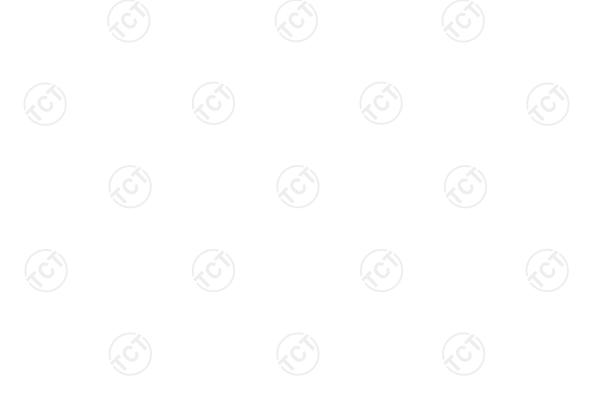


4.2. Description of Support Units

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
Notebook	G485	1	1	Lenovo

- 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.





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

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005
 General Requirements for the Competence of Testing and Calibration laboratories for

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

the competence of testing. The Registration No. is CNAS L6165.

Tel: 86-755-36638142

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%





6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

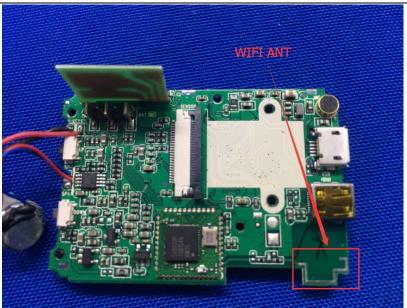
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 EUT antenna is an internal internal antenna which permanently attached, and the best case gain of the antenna is 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			
Frequency Range:	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto	
	Frequency range Limit (dBuV)			
	(MHz)	Quasi-peak	Áverage	
Limits:	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	Reference	e Plane		
Test Setup:	Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m			
Test Mode:	Charging + transmitting	g with modulation		
Test Procedure:	 The E.U.T and simulators are 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			



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCS30	100139	Sep. 11, 2016				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 16, 2016				
Coax cable	TCT	CE-05	N/A	Sep. 11, 2016				
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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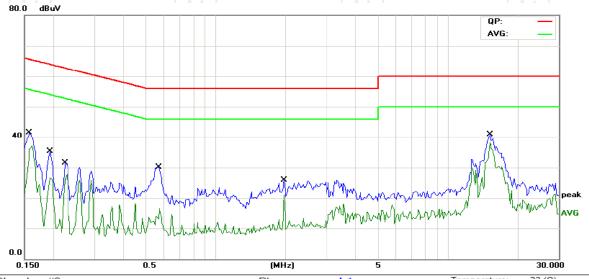
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6.2.3. Test data

Please refer to following diagram for individual

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



Site Chamber #2 Phase: L1 Temperature: 23 (C)
Limit: FCC Part 15B Class B Conduction(QP) Power: Humidity: 54 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
_	1		0.1578	27.15	11.49	38.64	65.57	-26.93	QP	
	2		0.1578	24.07	11.49	35.56	55.57	-20.01	AVG	
} _	3		0.1930	19.87	11.46	31.33	63.90	-32.57	QP	
_	4		0.1930	16.94	11.46	28.40	53.90	-25.50	AVG	
_	5		0.2242	18.05	11.45	29.50	62.66	-33.16	QP	
_	6		0.2242	16.00	11.45	27.45	52.66	-25.21	AVG	
_	7		0.5680	14.88	11.27	26.15	56.00	-29.85	QP	
	8		0.5680	2.84	11.27	14.11	46.00	-31.89	AVG	
_	9		1.9703	11.82	11.67	23.49	56.00	-32.51	QP	
_	10		1.9703	8.08	11.67	19.75	46.00	-26.25	AVG	
×	11		15.1758	27.87	11.60	39.47	60.00	-20.53	QP	
)	12	*	15.1758	22.35	11.60	33.95	50.00	-16.05	AVG	

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)

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

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

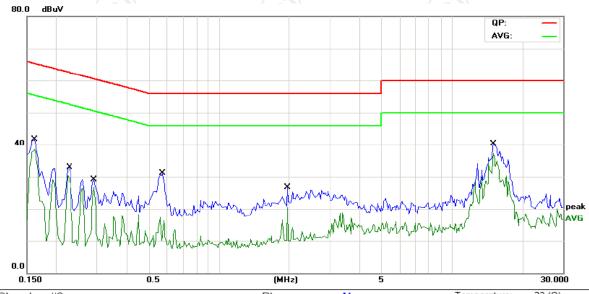
Q.P. =Quasi-Peak

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)



Site Chamber #2 Phase: N Temperature: 23 (C)
Limit: FCC Part 15B Class B Conduction(QP) Power: Humidity: 54 %

)	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
_	1		0.1617	29.02	11.49	40.51	65.37	-24.86	QP		
-	2	*	0.1617	27.58	11.49	39.07	55.37	-16.30	AVG		
_	3		0.2281	19.05	11.45	30.50	62.52	-32.02	QP		
-	4		0.2281	18.40	11.45	29.85	52.52	-22.67	AVG		
-	5		0.2906	16.04	11.41	27.45	60.50	-33.05	QP		
ζ.	6		0.2906	15.47	11.41	26.88	50.50	-23.62	AVG		
) _	7		0.5719	14.90	11.26	26.16	56.00	-29.84	QP		
_	8		0.5719	2.32	11.26	13.58	46.00	-32.42	AVG		
-	9		1.9703	11.92	11.67	23.59	56.00	-32.41	QP		
-	10		1.9703	8.08	11.67	19.75	46.00	-26.25	AVG		
-	11		15.0781	25.87	11.62	37.49	60.00	-22.51	QP		
-	12		15.0781	18.78	11.62	30.40	50.00	-19.60	AVG		
-											

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.



6.2.4. Maximum Conducted (Average) Output Power

6.2.5. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3), CFR part 2.1046
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05. 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

Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016		
RF cable	TCT	RE-06	N/A	Sep. 12, 2016		
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016		

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), CFR part 2.1049					
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05					
Limit:	>500kHz					
Test Setup:						
	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. 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 make 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	Calibration Due					
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016				
RF cable	тст	RE-06	N/A	Sep. 12, 2016				
Antenna Connector	тст	RFC-01	N/A	Sep. 12, 2016				

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 D01 DTS Meas Guidance v03r05
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 v03r05 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

RF Test Room								
Equipment Manufacturer Model Serial Number Calibration Due								
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016				
RF cable	TCT	RE-06	N/A	Sep. 12, 2016				
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016				

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), §2.1051, §2.1057 KDB 558074 D01 DTS Meas Guidance v03r05 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: Fest Mode: Transmitting mode with modulation 1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.							
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: Test Mode: Transmitting mode with modulation 1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.	Test Requirement:	FCC Part15 C Section 15.247 (d), §2.1051, §2.1057					
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: Test Mode: Transmitting mode with modulation 1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.	Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05					
Test Mode: Transmitting mode with modulation 1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.	Limit:	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					
Transmitting mode with modulation 1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.	Test Setup:	- FUT					
1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.	Test Mode:	Spectrum Analyzer					
Test Result: PASS	Test Procedure:	 analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. 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). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded 					
	Test Result:						



6.5.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016				
RF cable	TCT	RE-06	N/A	Sep. 12, 2016				
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016				

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







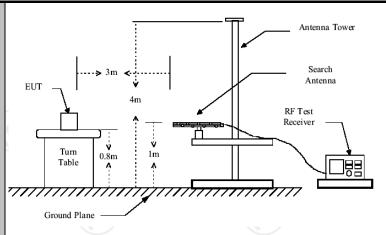
6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

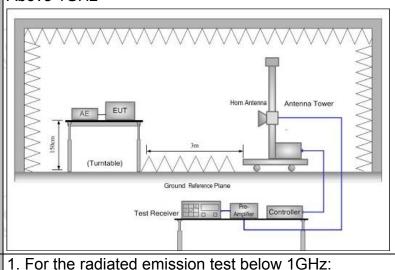
Test Requirement:	FCC Part15	FCC Part15 C Section 15.209, §2.1053, §2.1057							
Test Method:	ANSI C63.10	ANSI C63.10: 2013							
Frequency Range:	9 kHz to 25 (9 kHz to 25 GHz							
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal &	Vertical			(C)				
Operation mode:	Transmitting	Transmitting mode with modulation							
	Frequency	Detector	· RB\	V	VBW		Remark		
	9kHz- 150kHz	Quasi-pea		Ηz	1kHz	Qua	si-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-pea	/		30kHz		si-peak Value		
	30MHz-1GHz	Quasi-pea	k 100K	Hz	300KHz	Qua	si-peak Value		
	Above 1GHz	Peak	1MF	lz	3MHz	Р	eak Value		
	Above Toriz	Peak	1MF	lz	10Hz	Ave	erage Value		
	Frequen	псу	Field Stre (microvolts/		_	Measurement Distance (meters)			
	0.009-0.4	490	2400/F(k		(Hz)	300			
	0.490-1.7		2400	,	KHz)		30		
	1.705-3		30			30			
	30-88		100			3			
I tooks	88-216		150			3 3			
Limit:	216-96		200			3			
	Above 9	00	500			3			
	Frequency		Field Strength (microvolts/meter)		Measure Distan (meter	се	Detector		
	Above 4016	_	500		3		Average		
	Above 1GHz	2	5000		3		Peak		
Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver						er		
	30MHz to 10	pΠZ							







Above 1GHz



Test Procedure:

The EUT was placed on a turntable with 1.5 meter above ground. The EUT was set 3 meters from the 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
	receiving the maximum signal. The final 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. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. 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.
	 4. 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 ≥ 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

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM 848597		Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sep. 13, 2016
Coax cable	TCT	RE-low-01	N/A	Sep. 11, 2016
Coax cable	TCT	RE-high-02	N/A	Sep. 11, 2016
Coax cable	тст	RE-low-03	N/A	Sep. 11, 2016
Coax cable	тст	RE-High-04	N/A	Sep. 11, 2016
Antenna Mast	ccs	CC-A-4M	N/A	Sep. 12, 2016
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

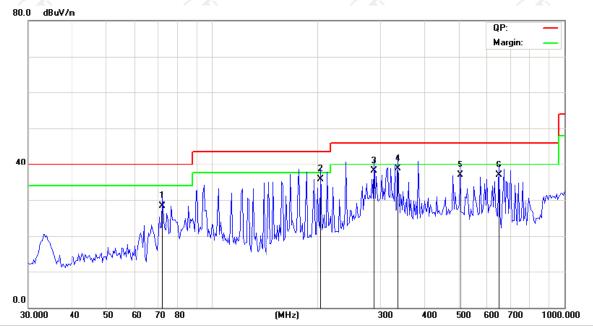
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:



Site Chamber #2 Limit: FCC Part 15B Class B RE_3 m Polarization: Horizontal

Temperature: 25 (C)

Power:

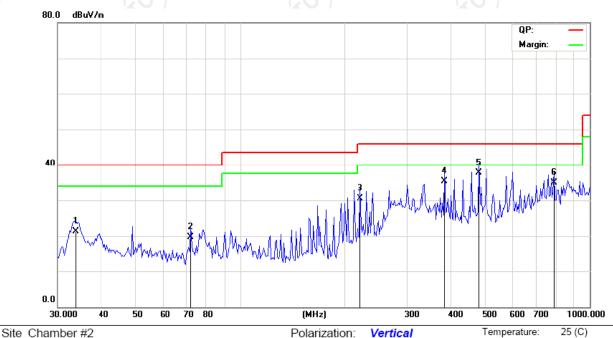
Humidity: 54 %

1 0/

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
) -			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	_
_	1		72.2111	43.90	-15.54	28.36	40.00	-11.64	QP		
_	2	2	202.8745	47.10	-11.33	35.77	43.50	-7.73	QP		_
_	3	2	288.2839	46.20	-8.08	38.12	46.00	-7.88	QP		_
-	4	* (336.4816	45.80	-7.13	38.67	46.00	-7.33	QP		_
-	5	į	505.7891	39.60	-2.69	36.91	46.00	-9.09	QP		_
_	6	(651.3831	37.70	-0.81	36.89	46.00	-9.11	QP		_



Vertical:



Limit: FCC Part 15B Class B RE_3 m

Polarization: Vertical Temperature: 25 (C)

Power: Humidity:

_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		33.8066	35.30	-13.95	21.35	40.00	-18.65	QP	
_	2		72.2111	35.20	-15.54	19.66	40.00	-20.34	QP	
-	3	:	220.7240	41.50	-11.03	30.47	46.00	-15.53	QP	
_	4	,	384.5446	41.10	-5.75	35.35	46.00	-10.65	QP	
-	5	*	481.5111	41.30	-3.59	37.71	46.00	-8.29	QP	
-	6		793.0280	31.70	3.18	34.88	46.00	-11.12	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)), and the worst case Mode (Low channel and 802.11b) was submitted only.



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

Wodalation Type: 002.11b									
		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	45.32	-4.20	41.12	74.00	54.00			
2377.38	Н	46.23	-4.10	42.13	74.00	54.00			
2390	Н	51.45	-3.94	47.51	74.00	54.00			
2310	V	42.81	-4.20	38.61	74.00	54.00			
2377.38	V	53.44	-4.10	49.34	74.00	54.00			
2390	V	50.63	-3.94	46.69	74.00	54.00			

Modulation Type: 802.11b

	Modelation Type. 662.115											
		Low	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	53.77	-3.60	50.17	74.00	54.00						
2487.09	Н	44.81	-3.50	41.31	74.00	54.00						
2500	Н	43.55	-3.34	40.21	74.00	54.00						
2483.5	V	53.32	-3.60	49.72	74.00	54.00						
2487.09	V	45.6	-3.50	42.1	74.00	54.00						
2500	V	41.47	-3.34	38.13	74.00	54.00						

Modulation Type: 802.11g

		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	44.57	-4.20	40.37	74.00	54.00
2388.96	Н	52.4	-4.12	48.28	74.00	54.00
2390	Н	53.64	-3.94	49.7	74.00	54.00
2310	V	45.82	-4.20	41.62	74.00	54.00
2388.96	2388.96 V		-4.12	43.86	74.00	54.00
2390	V	52.86	-3.94	48.92	74.00	54.00

Modulation Type: 802.11g

			channel: 2462			
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	52.39	-3.60	48.79	74.00	54.00
2487.59	Н	48.53	-3.52	45.01	74.00	54.00
2500	Ι	45.5	-3.34	42.16	74.00	54.00
2483. 5	V	51.62	-3.60	48.02	74.00	54.00
2487.59	V	45.74	-3.52	42.22	74.00	54.00
2500	V	44.59	-3.34	41.25	74.00	54.00



Modulation Type: 802.11n(20MHz)

		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	44.95	-4.20	40.75	74.00	54.00					
2388.01	Н	55.2	-4.10	51.1	74.00	54.00					
2390	Н	51.54	-3.94	47.6	74.00	54.00					
2310	V	45.89	-4.20	41.69	74.00	54.00					
2388.01	V	52.11	-4.10	48.01	74.00	54.00					
2390	V	49.62	-3.94	45.68	74.00	54.00					

Modulation Type: 802.11n(20MHz)

		Low	channel: 2462			
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	54.7	-3.60	51.1	74.00	54.00
2392.55	Н	51.78	-3.50	48.28	74.00	54.00
2500	Н	46.25	-3.34	42.91	74.00	54.00
2483. 5	V	51.61	-3.60	48.01	74.00	54.00
2392.55	V	48.41	-3.50	44.91	74.00	54.00
2500	V	45.58	-3.34	42.24	74.00	54.00

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



Above 1GHz

Modulation Type: 802.11b

			L	ow channe	I: 2412 MH:	Z			
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	Н	44.49	+	0.66	45.15		74	54	-8.85
7236	CO H	35.78	 	9.5	45.28	(O+	74	54	-8.72
	H					<u></u>			
4824	V	45.81		0.66	46.47		74	54	-7.53
7236	V	34.63		9.5	44.13		74	54	-9.87
()	V	(/ G ')		(, C)		(, G `)		(, (

	Middle channel: 2437MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ΑV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4874	Н	46.12	140	0.99	47.11	() /	74	54	-6.89				
7311	Н	36.57		9.85	46.42		74	54	-7.58				
	Н												
4874	V	44.62		0.99	45.61		74	54	-8.39				
7311	V	34.7		9.85	44.55		74	54	-9.45				
	V												

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Н	42.76		1.33	44.09		74	54	-9.91		
7386	Н	35.84		10.22	46.06		74	54	-7.94		
	Н	-					-				
4924	V	41.69		1.33	43.02		74	54	-10.98		
7386	V	34.43		10.22	44.65		74	54	-9.35		
	V										

- 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.





Modulation	Type:	802.11a

	Low channel: 2412 MHz									
Frequ (Mh		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)
48	24	Ι	45.26		0.66	45.92		74	54	-8.08
72	36	Ι	32.83		9.5	42.33		74	54	-11.67
	- /	H					4			
		(0)		60.)		(0)		(,0,	
48	24	V	47.65	-77	0.66	48.31		74	54	-5.69
72	36	V	35.21		9.5	44.71		74	54	-9.29
	-	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	Η	45.57		0.99	46.56	-	74	54	-7.44
7311	Ξ	35.35	<i>+-</i>	9.85	45.2		74	54	-8.8
	Н		150			7		<u>1</u> K	
					,				
4874	V	42.8		0.99	43.79		74	54	-10.21
7311	V	32.71		9.85	42.56		74	54	-11.44
	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)		Margin (dB)	
4924	Н	43.57	<i></i>	1.33	44.9		74	54	-9.1	
7386	Н	36.9	-	10.22	47.12	-	74	54	-6.88	
	Н									
4924	V	42.66	I	1.33	43.99		74	54	-10.01	
7386	V	32.46		10.22	42.68		74	54	-11.32	
9 /	V	(2)			<i>)</i>		X-22 /			

- 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.
- 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.



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)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4824	Н	44.51		0.66	45.17		74	54	-8.83	
7236	Н	33.42		9.5	42.92		74	54	-11.08	
	H		7							
	(0)		(20)			(0)		(,0)		
4824	V	45.89		0.66	46.55	<u></u>	74	54	-7.45	
7236	V	34.69		9.5	44.19		74	54	-9.81	
	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	Н	44.61		0.99	45.6	-	74	54	-8.4
7311	H	34.79		9.85	44.64		74	54	-9.36
	ЭН		KO			2		<u>1</u> K	
					,				
4874	V	41.62		0.99	42.61		74	54	-11.39
7311	V	33.48		9.85	43.33		74	54	-10.67
	V								

			Н	ligh channe	l: 2462 MH	Z			
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)		Margin (dB)
4924	Н	45.64		1.33	46.97		74	54	-7.03
7386	Н	35.43		10.22	45.65	<i>y</i> -	74	54	-8.35
	Н								
4924	V	42.7		1.33	44.03		74	54	-9.97
7386	V	31.19		10.22	41.41	-	74	54	-12.59
P /	V	X-2			7 /		<u> </u>		

- 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.
- 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.







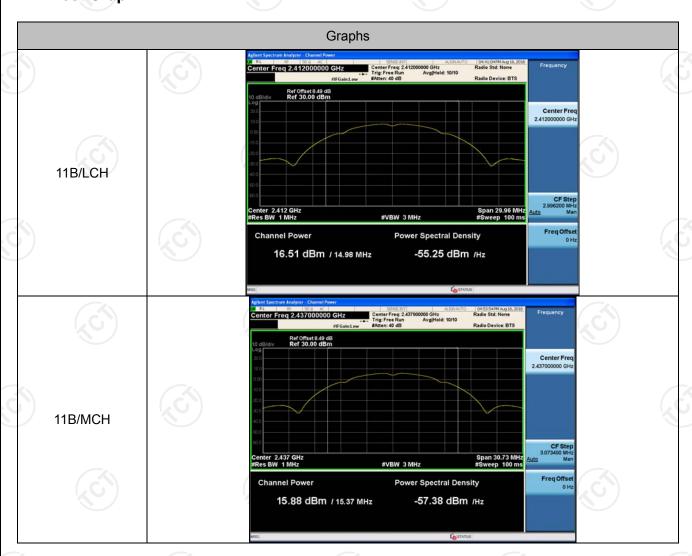


Appendix A: Test result of conducted Test Conducted Average Output Power

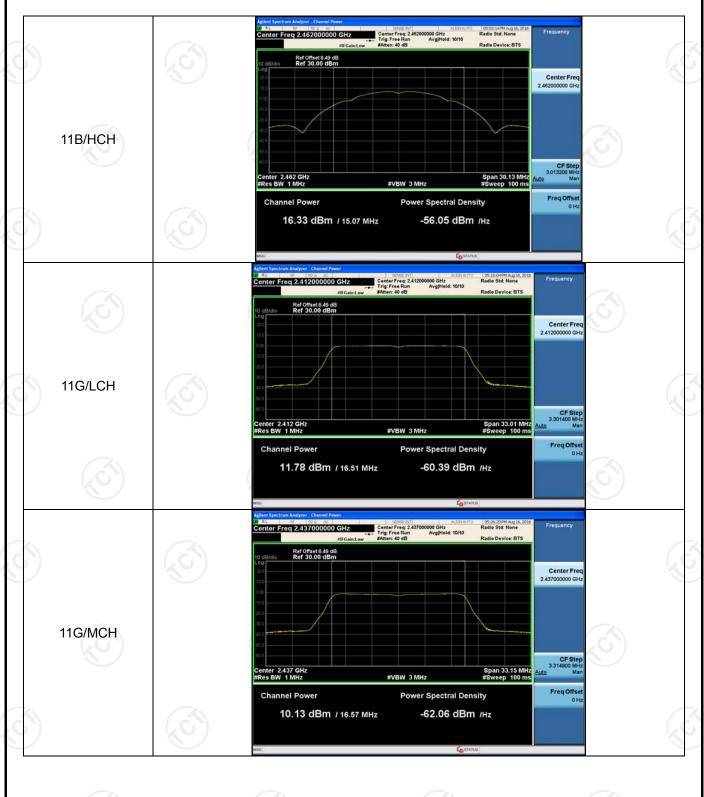
Result Table

Mode	Channel	Meas.Level [dBm]	Av.Power [dBm]	Verdict
11B	LCH	16.51	16.51	PASS
11B	MCH	15.88	15.88	PASS
11B	HCH	16.33	16.33	PASS
11G	LCH	11.78	11.78	PASS
11G	MCH	10.13	10.13	PASS
11G	HCH	11.21	11.21	PASS
11N20SISO	LCH	12.22	12.22	PASS
11N20SISO	MCH	10.41	10.41	PASS
11N20SISO	HCH	11.61	11.61	PASS

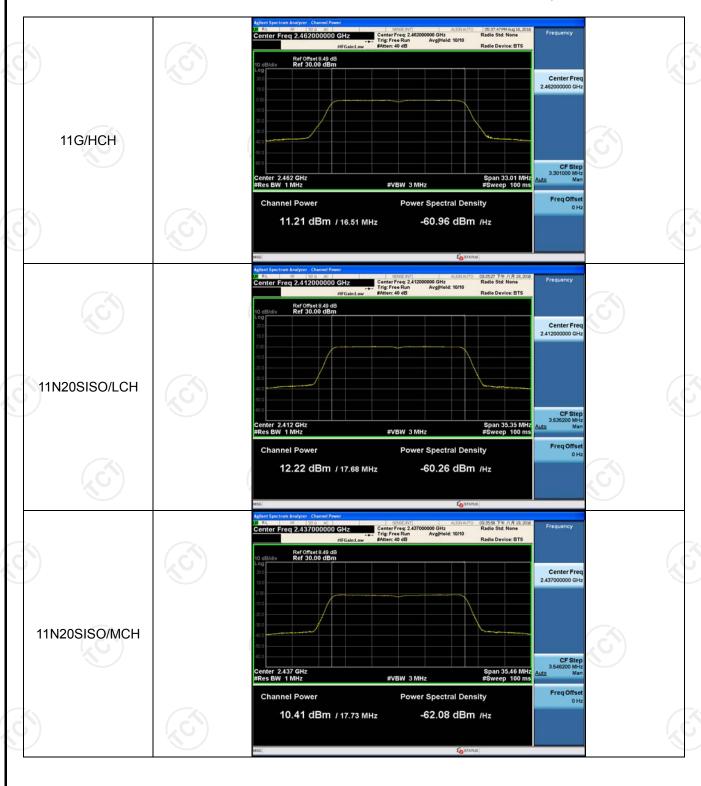
Test Graph



















6dB Occupied Bandwidth

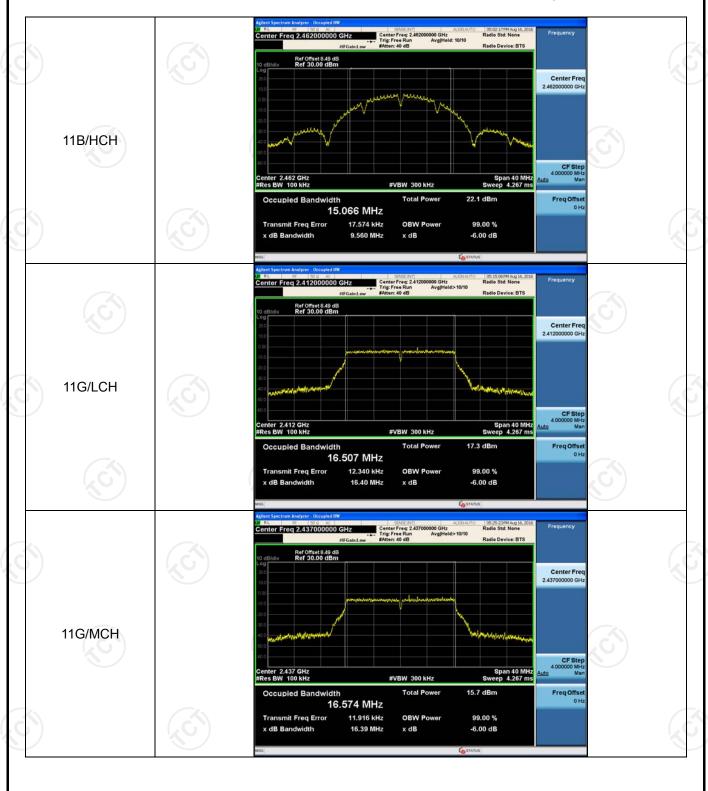
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	10.03	14.981	PASS
11B	MCH	10.07	15.367	PASS
11B	HCH	9.560	15.066	PASS
11G	LCH	16.40	16.507	PASS
11G	MCH	16.39	16.574	PASS
11G	HCH	16.35	16.505	PASS
11N20SISO	LCH	17.66	17.676	PASS
11N20SISO	MCH	17.75	17.731	PASS
11N20SISO	HCH	17.83	17.702	PASS

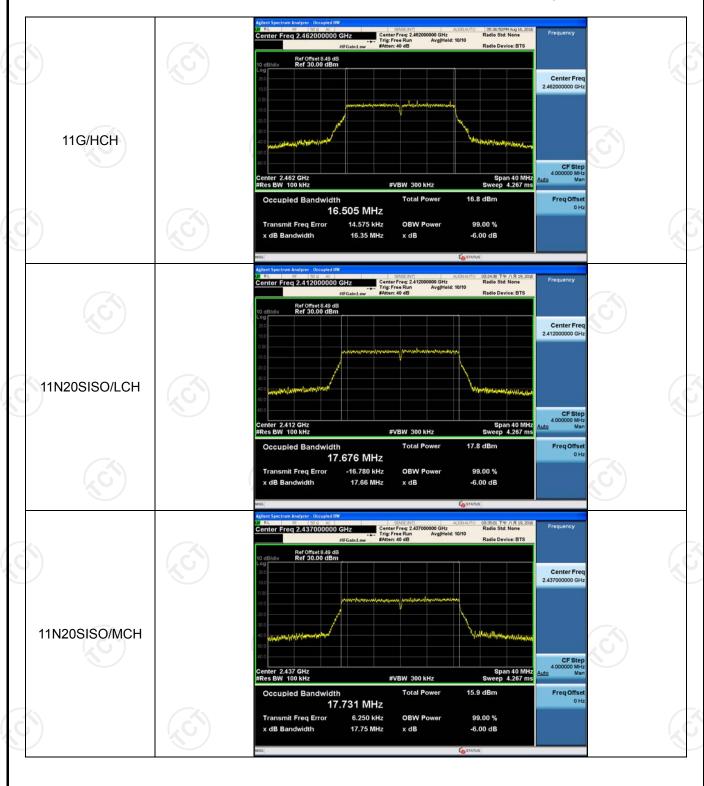
Test Graph



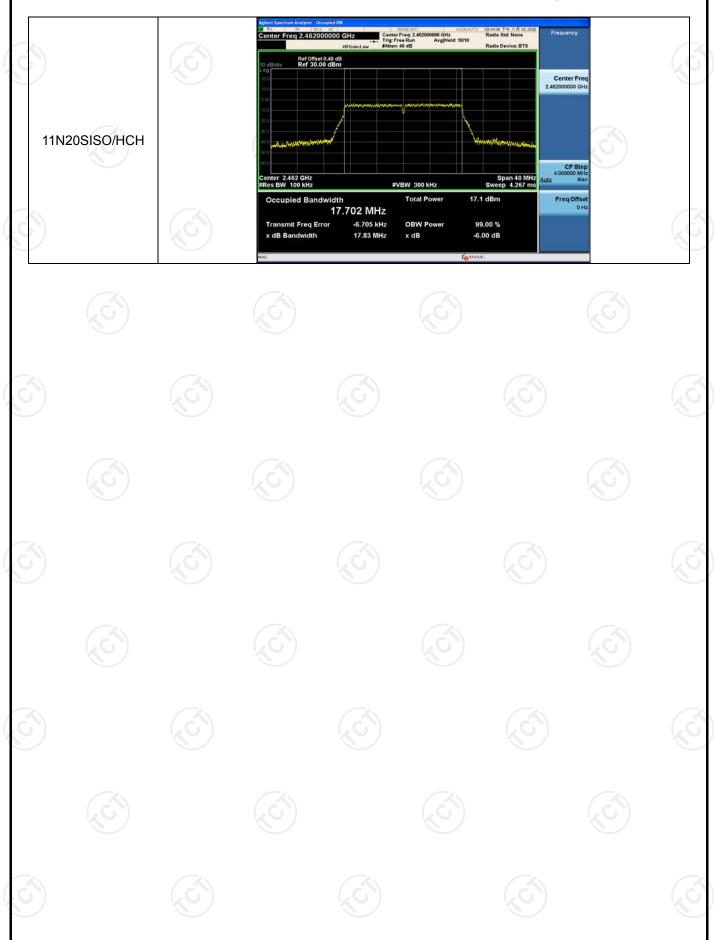
















Band-edge for RF Conducted Emissions

Result Table

	Mode	Channel	Carrier Power [dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
	11B	LCH	6.708	-39.802	-23.29	PASS
Ī	11B	HCH	5.958	-41.642	-24.04	PASS
Ī	11G	LCH	-1.770	-41.496	-31.77	PASS
Ī	11G	HCH	-0.561	-41.298	-30.56	PASS
7	11N20SISO	LCH	-2.350	-40.965	-32.35	PASS
	11N20SISO	HCH	-2.671	-41.365	-32.67	PASS

Test Graph





