

TEST REPORT

FCC ID: 2AI6D-X96Q

Product: Smart TV BOX

Model No.: X96Q

Additional Model No.: BA301, BA303, BA305, YD905

Trade Mark: N/A

Report No.: TCT200506E034

Issued Date: May 14, 2020

Issued for:

SHENZHEN AMEDIATECH TECHNOLOGY CO., LTD

No. 01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road, Gaofeng Community, Dalang Office, Longhua District, Shenzhen, 518000 China

Issued By:

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1. Test Certification

Product:	Smart TV BOX				
Model No.:	X96Q				
Additional Model No.:	BA301, BA303, BA305, YD905				
Trade Mark:	N/A				
Applicant:	SHENZHEN AMEDIATECH TECHNOLOGY CO., LTD				
Address:	No. 01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road, Gaofeng Community, Dalang Office, Longhua District, Shenzhen, 518000 China				
Manufacturer:	SHENZHEN AMEDIATECH TECHNOLOGY CO., LTD				
Address:	No. 01, 2/F, A Plant, Block B, Minsheng Industrial Park, Longmei Road, Gaofeng Community, Dalang Office, Longhua District, Shenzhen, 518000 China				
Date of Test:	May 07, 2020 – May 13, 2020				
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013				

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: Byand

Date:

May 13, 2020

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Tomsin

Reviewed By:

Date:

May 14, 2020

Approved By:

Date:

May 14, 2020



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)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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:	Smart TV BOX		
Model No.:	X96Q		
Additional Model No.:	BA301, BA303, BA305, YD905		
Trade Mark:	N/A		
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:	PCB Antenna		
Antenna Gain:	3.0dBi		
Power Supply:	AC 120V/60Hz		
AC adapter:	Adapter Information: Model: ANU-050200A Input: AC 100-240V~50/60Hz, 0.3A Output: DC 5V, 2000mA		
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.		



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

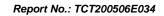
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(ZC)

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. General Information

4.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	25.0 °C	25.0 °C			
Humidity:	55 % RH	55 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Mode:					
Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery					

The sample was placed 0.8m & 1.5m for the measurement below & 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(Z axis) 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

- 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). Duty cycle setting during the transmission is 98.46% 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
/	/	/	/	1

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.: 645098

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: +86-755-27673339

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 WIFI antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 3.0dBi.



WIFI AN



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 Sween time	=auto
Treceiver Setup.		1.6.	
	Frequency range	Limit (c	
	(MHz)	Quasi-peak	Average
Limits:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5 5-30	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 No. Test table height=0.8m	EMI Receiver	— AC power
Test Mode:	Charging + transmitting 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		



6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	ipment Manufacturer		Serial Number	Calibration Due				
Test Receiver	R&S	ESPI	101402	Jul. 29, 2020				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2020				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 08, 2020				
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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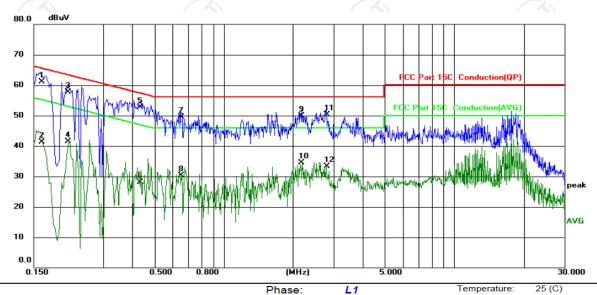




6.2.3. Test data

Please refer to following diagram for individual

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



Limit: FCC Part 15C Conduction(QP)

Power: AC120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	10
1	*	0.1620	50.80	10.22	61.02	65.36	-4.34	QP		*
2		0.1620	31.05	10.22	41.27	55.36	-14.09	AVG		- 12
3		0.2116	47.39	10.23	57.62	63.14	-5.52	QP		
4		0.2116	31.27	10.23	41.50	53.14	-11.64	AVG		
5		0.4339	42.51	10.22	52.73	57.18	-4.45	QP		5
6		0.4339	17.81	10.22	28.03	47.18	-19.15	AVG		2
7		0.6540	39.30	10.23	49.53	56.00	-6.47	QP		
8		0.6540	20.08	10.23	30.31	46.00	-15.69	AVG		
9		2.1739	39.41	10.45	49.86	56.00	-6.14	QP		<u> </u>
10		2.1739	23.97	10.45	34.42	46.00	-11.58	AVG		
11		2.7820	39.79	10.46	50.25	56.00	-5.75	QP		
12		2.7820	22.93	10.46	33.39	46.00	-12.61	AVG		

Note:

Freq. = Emission frequency in MHz

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

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

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

Limit (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak

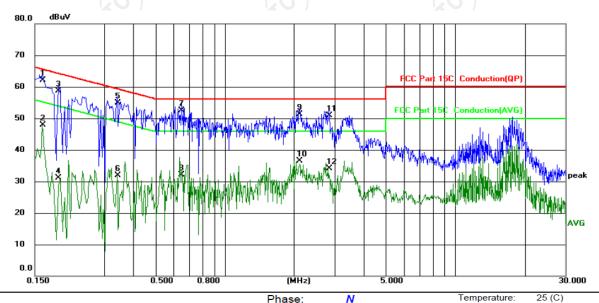
AVG =average

^{*} 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 Phase: N Temperature: 25 (C)
Limit: FCC Part 15C Conduction(QP) Power: AC120V/60Hz Humidity: 55 %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	51.90	10.22	62.12	65.36	-3.24	QP	
2		0.1620	37.69	10.22	47.91	55.36	-7.45	AVG	
3		0.1900	48.57	10.22	58.79	64.04	-5.25	QP	
4		0.1900	20.87	10.22	31.09	54.04	-22.95	AVG	
5		0.3420	44.60	10.23	54.83	59.15	-4.32	QP	
6		0.3420	21.70	10.23	31.93	49.15	-17.22	AVG	
7		0.6500	42.31	10.22	52.53	56.00	-3.47	QP	
8		0.6500	21.83	10.22	32.05	46.00	-13.95	AVG	
9		2.1059	40.86	10.45	51.31	56.00	-4.69	QP	
10		2.1059	25.98	10.45	36.43	46.00	-9.57	AVG	
11		2.8300	40.46	10.46	50.92	56.00	-5.08	QP	
12		2.8300	23.65	10.46	34.11	46.00	-11.89	AVG	

Note:

Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = LISN 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.



6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)						
Test Method:	KDB 558074 D01 v05r02						
Limit:	30dBm						
Test Setup:	Spectrum Analyzer EUT						
Test Mode:	Transmitting mode with modulation						
Test Procedure:	 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						

6.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020			
RF Cable (9KHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2020			
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020			

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. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	>500kHz					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 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						

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020			
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020			

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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6.5. Power Spectral Density

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247	7 (e)
Test Method:	KDB 558074	
Limit:	The average power spectral than 8dBm in any 3kHz ba continuous transmission.	
Test Setup:	Structure Analysis	EUT
Test Mode:	Spectrum Analyzer Transmitting mode with modu	ulation
Test Mode.		
Test Procedure:	 The RF output of EUT was analyzer by RF cable and was compensated to the research measurement. Set to the maximum power EUT transmit continuously Make the measurement wit resolution bandwidth (RBV kHz. Video bandwidth VBV to at least 1.5 times the Other to at least 1.5 times the	attenuator. The path loss results for each setting and enable the set setting and enable the set setting and enable the setting
Test Result:	PASS	

6.5.2. Test Instruments

	RI	F Test Room	ı	
Equipment	Manufacturer	anufacturer Model Serial Nu		Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2020

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. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

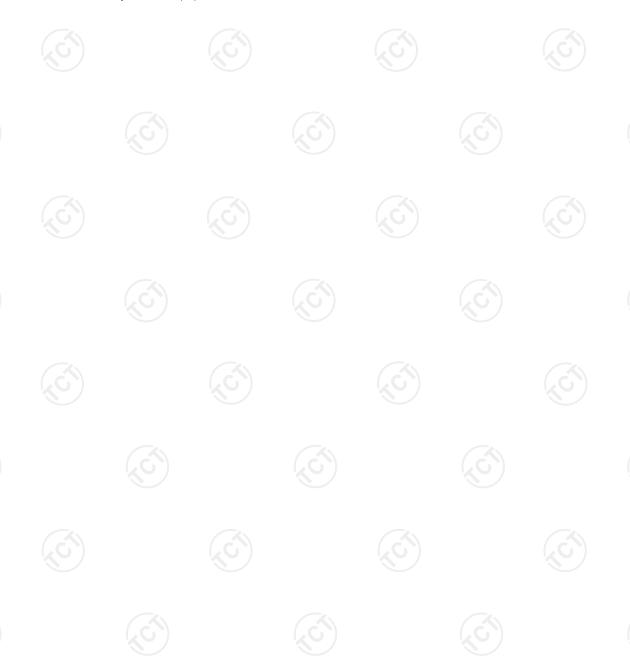
frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the 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						
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 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 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)				
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 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:	KDB558074				
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:	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				
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:					
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:	Transmitting mode with modulation				
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:	PASS				



6.6.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020			
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020			

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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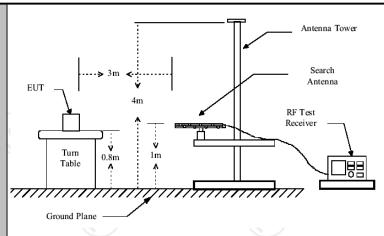


6.7. Radiated Spurious Emission Measurement

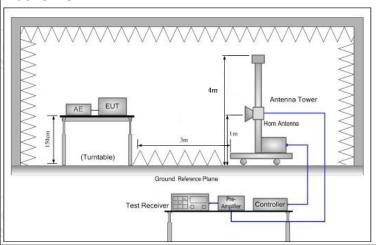
6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209					
Test Method:	ANSI C63.10	0: 2013	(C)		((0)
Frequency Range:	9 kHz to 25	GHz				
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	Vertical		(,C)		
Operation mode:	Transmitting	mode wi	th modulat	ion		
	Frequency 9kHz- 150kHz	Detector Quasi-pea		VBW 1kHz	+	Remark si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-pea	/	30kHz		i-peak Value
Treserver Setup.	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quas	i-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
	7,5000 10112	Peak	1MHz	10Hz	Ave	rage Value
	Frequer	ncy	Field Stre (microvolts	~ ~ /		asurement nce (meters)
	0.009-0.4	490	2400/F(F			300
	0.490-1.705		24000/F(KHz)		30
	1.705-3	30	30		30	
	30-88		100		3	
	88-216		150			3
Limit:	216-96		200			3
	Above 9	960	500 3			3
	Frequency		ld Strength ovolts/meter)	Measure Distan (mete	ice	Detector
			500	3	,	Average
	Above 1GH	Z	5000	3		Peak
Test setup:	For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier Receiver Computer Receiver					
	30MHz to 10	ס⊓∠				



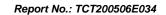


Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 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 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=120 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





6.7.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 11, 2020
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 08, 2020
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).

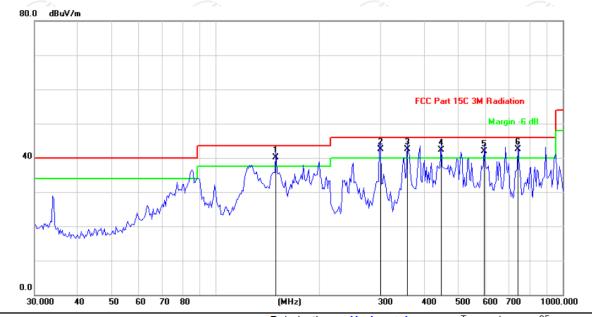
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6.7.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

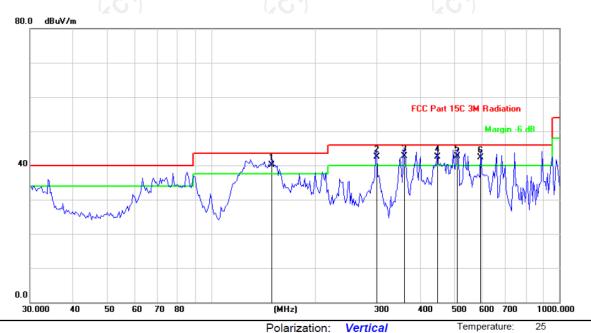


Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

_	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
<u>ر</u> ر			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
	1	*	148.9173	56.73	-16.60	40.13	43.50	-3.37	QP
-	2	İ	298.5932	53.67	-11.08	42.59	46.00	-3.41	QP
_	3	İ	355.9397	52.04	-9.63	42.41	46.00	-3.59	QP
_	4	İ	445.6931	50.66	-8.26	42.40	46.00	-3.60	QP
\ \	5	İ	594.5143	47.38	-5.57	41.81	46.00	-4.19	QP ,
<u> </u>	6	İ	744.4265	46.45	-4.04	42.41	46.00	-3.59	QP



Vertical:



Site Polarization: Vertical 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	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
_	1	İ	148.9173	56.79	-16.60	40.19	43.50	-3.31	QP
\	2	İ	298.5932	53.54	-11.08	42.46	46.00	-3.54	QP
_	3	ļ	358.4497	52.23	-9.58	42.65	46.00	-3.35	QP
_	4	İ	445.6931	50.86	-8.26	42.60	46.00	-3.40	QP
_	5	*	509.3559	49.83	-7.11	42.72	46.00	-3.28	QP
_	6	ļ	594.5143	47.95	-5.57	42.38	46.00	-3.62	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 (Highest channel and 802.11b) was submitted only.
- 3. Freq. = Emission frequency in MHz

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

Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

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

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

Any value more than 10dB below limit have not been specifically reported.

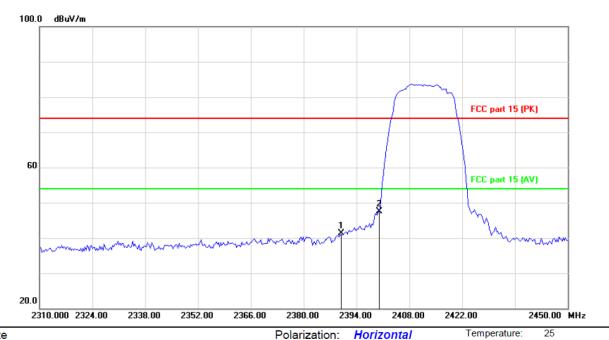
^{*} is meaning the worst frequency has been tested in the test frequency range.



Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:

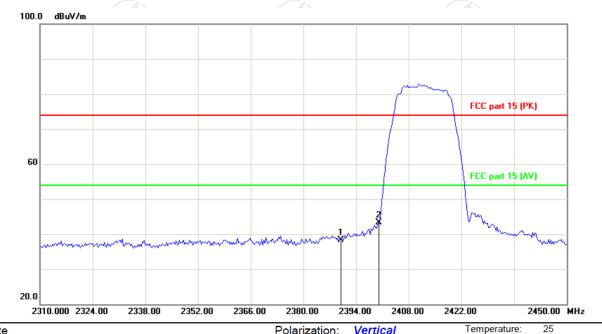


Site Polarization: Horizontal Temperature: 2
Limit: FCC part 15 (PK) Power: Humidity: 55 %

-	No.	No. Mk. Free		No. Mk. Fr		_		Measure- ment	Limit	Over	
` `X			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector		
- ر	1		2390.000	54.54	-13.15	41.39	74.00	-32.61	peak		
-	2	*	2400.000	60.72	-13.12	47.60	74.00	-26.40	peak		



Vertical:



Site Polarization: Vertical Temperature: 2
Limit: FCC part 15 (PK) Power: Humidity: 55 %

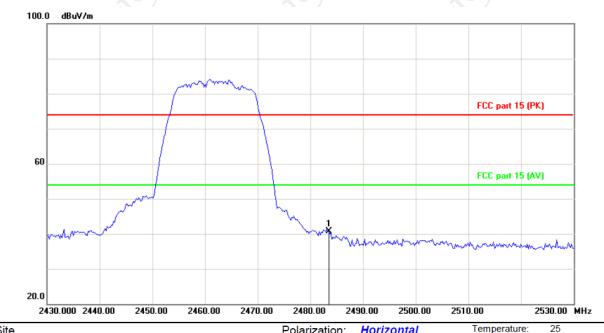
	No.	Mk	c. Freq.	_		Measure- ment	Limit	Over	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
_	1		2390.000	51.53	-13.15	38.38	74.00	-35.62	peak
<u> </u>	2	*	2400.000	56.46	-13.12	43.34	74.00	-30.66	peak





Highest channel 2462:

Horizontal:



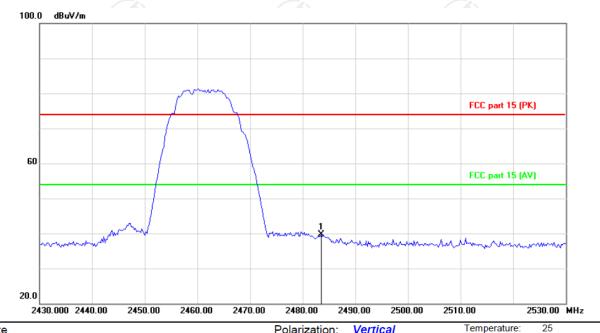
Site Polarization: Horizontal Temperature: 2
Limit: FCC part 15 (PK) Power: Humidity: 55 %

	No.	Mk	. Freq.	Reading Co			Limit	Over	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
3	1	*	2483.500	53.44	-12.74	40.70	74.00	-33.30	peak





Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

1	No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
	1	*	2483.500	52.37	-12.74	39.63	74.00	-34.37	peak

Note:

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20)), and the worst case Mode (802.11b) was submitted only.



Above 1GHz

Modulation Type: 802.1	l1b
------------------------	-----

			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	H	48.72	(1)	0.75	49.47		74	54	-4.53
7236	C H	40.34	70	9.87	50.21	(O-7	74	54	-3.79
	H					<u></u>			
4824	V	47.61	I	0.75	48.36		74	54	-5.64
7236	V	42.59		9.87	52.46		74	54	-1.54
(b))	V	(, C ,)		(, (()		$(-\Theta)$		(, (

	Middle channel: 2437MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)			Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4874	Н	48.44	140	0.97	49.41	7	74	54	-4.59		
7311	Н	42.08		9.83	51.91		74	54	-2.09		
	Н										
4874	V	49.17		0.97	50.14		74	54	-3.86		
7311	V	41.26		9.83	51.09		74	54	-2.91		
	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)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Н	49.83		1.18	51.01		74	54	-2.99		
7386	Н	38.90		10.07	48.97		74	54	-5.03		
	Н	1					-				
-											
4924	V	48.55		1.18	49.73		74	54	-4.27		
7386	V	40.67		10.07	50.74		74	54	-3.26		
	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.
- 6. All the restriction bands are compliance with the limit of 15.209.



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	Low channel: 2412 MHz											
Fre	equency 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	49.24		0.75	49.99		74	54	-4.01		
	7236	Н	40.65		9.87	50.52		74	54	-3.48		
		H										
		((0)		(20)			² (C,)		(20)			
	4824	V	47.08		0.75	47.83		74	54	-6.17		
	7236	V	40.16		9.87	50.03		74	54	-3.97		
		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	H	48.47		0.97	49.44		74	54	-4.56		
7311	Ξ	40.33		9.83	50.16		74	54	-3.84		
	H		140			(O- 1		下の)		
4874	\	47.51		0.97	48.48		74	54	-5.52		
7311	V	40.82		9.83	50.65		74	54	-3.35		
	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)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Н	47.70		1.18	48.88		74	54	-5.12		
7386	Н	39.94		10.07	50.01		74	54	-3.99		
	Н					-					
4924	V	46.36		1.18	47.54		74	54	-6.46		
7386	V	40.05		10.07	50.12		74	54	-3.88		
Y)	V	<u> </u>			9)		K-22				

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.
- 6. All the restriction bands are compliance with the limit of 15.209.





	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	49.55		0.75	50.30		74	54	-3.70			
7236	Н	40.21		9.87	50.08		74	54	-3.92			
	H							7				
((° O')		(20)			(O)		('C',				
4824	V	47.33		0.75	48.08		74	54	-5.92			
7236	V	40.46		9.87	50.33		74	54	-3.67			
	V											

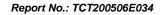
(3.7)	Middle channel: 2437MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4874	H	47.02		0.97	47.99		74	54	-6.01		
7311	I	40.78		9.83	50.61		74	54	-3.39		
	C H		KO			(O-1		下の			
4874	V	47.69		0.97	48.66		74	54	-5.34		
7311	V	40.84		9.83	50.67		74	54	-3.33		
	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)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)		
4924	Н	48.97		1.18	50.15		74	54	-3.85		
7386	Н	40.11	-	10.07	50.18		74	54	-3.82		
	Н										
4924	V	47.20		1.18	48.38		74	54	-5.62		
7386	V	40.53		10.07	50.60		74	54	-3.40		
Y)	V	<u> </u>)		K-22				

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.
- 6. All the restriction bands are compliance with the limit of 15.209.







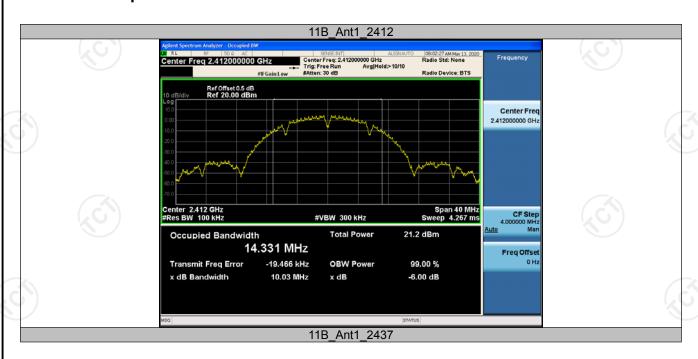
Appendix A: Test Result of Conducted Test

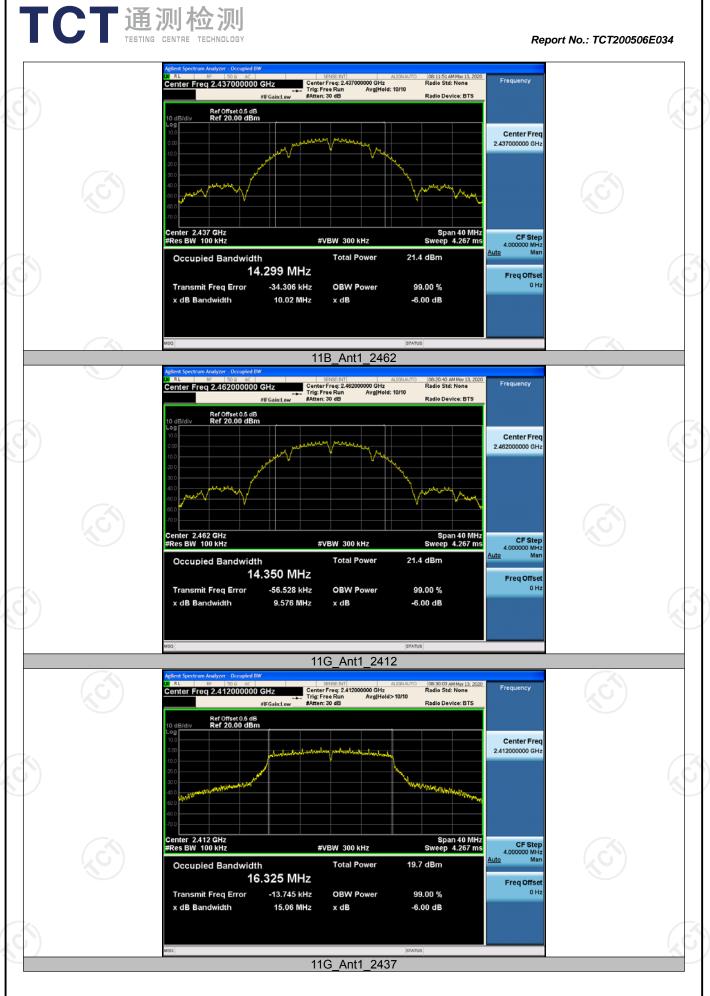
Occupied Channel Bandwidth

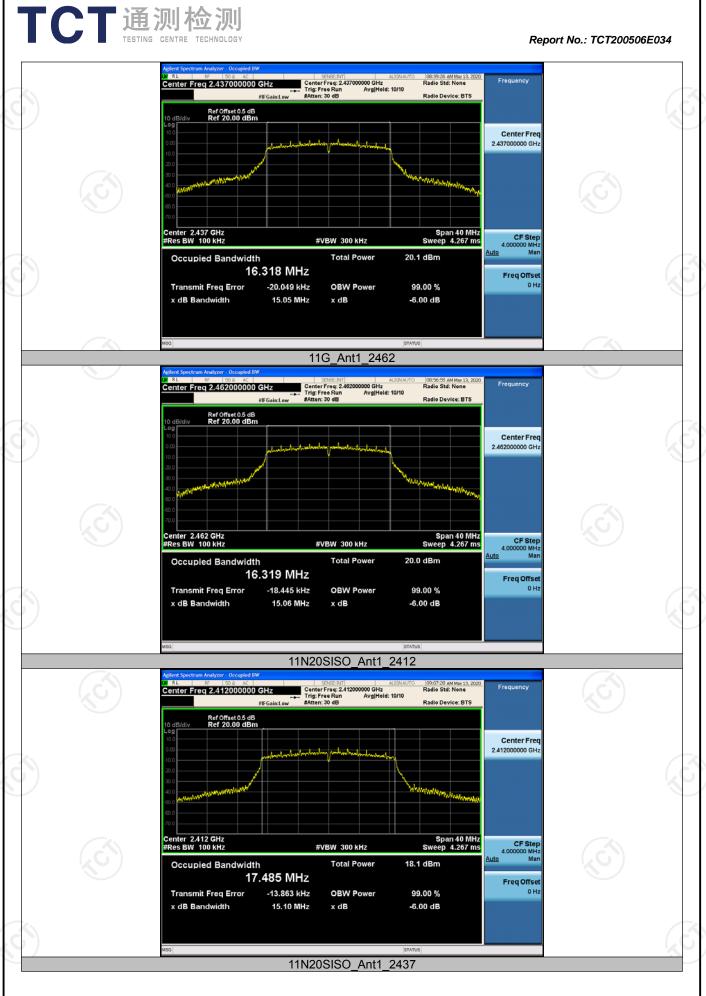
Test Result

Mode	Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	10.03	PASS
11B	MCH	10.02	PASS
11B	HCH	9.576	PASS
11G	LCH	15.06	PASS
11G	MCH	15.05	PASS
11G	HCH	15.06	PASS
11N20SISO	LCH	15.10	PASS
11N20SISO	MCH	15.11	PASS
11N20SISO	HCH	15.11	PASS
11N40SISO	LCH	35.09	PASS
11N40SISO	MCH	35.06	PASS
11N40SISO	HCH	35.07	PASS

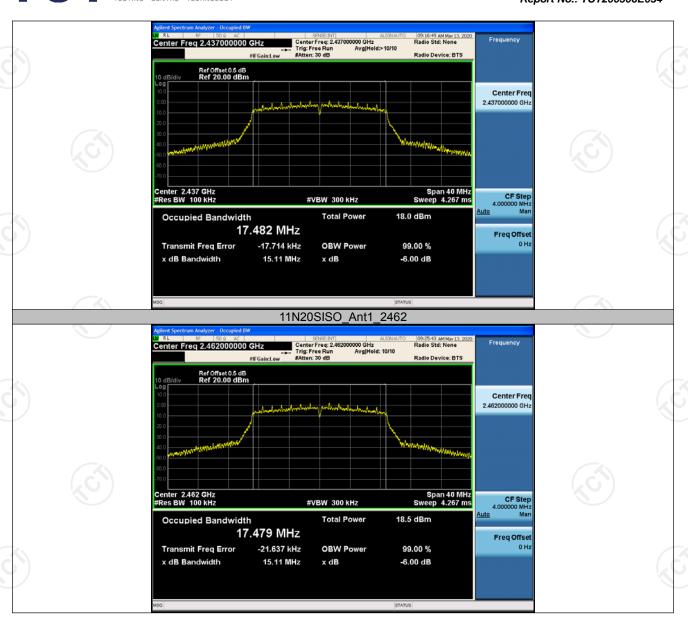
Test Graphs

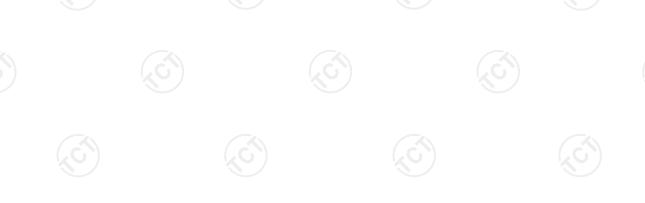














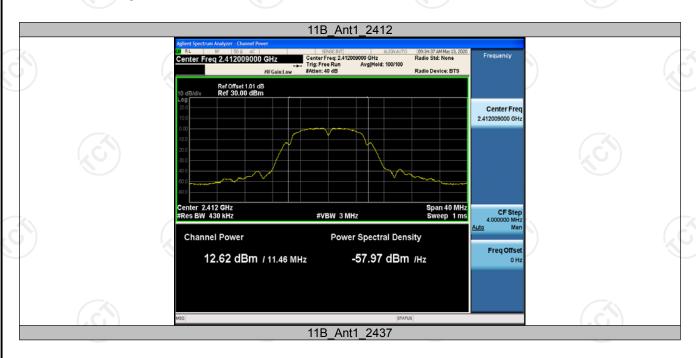


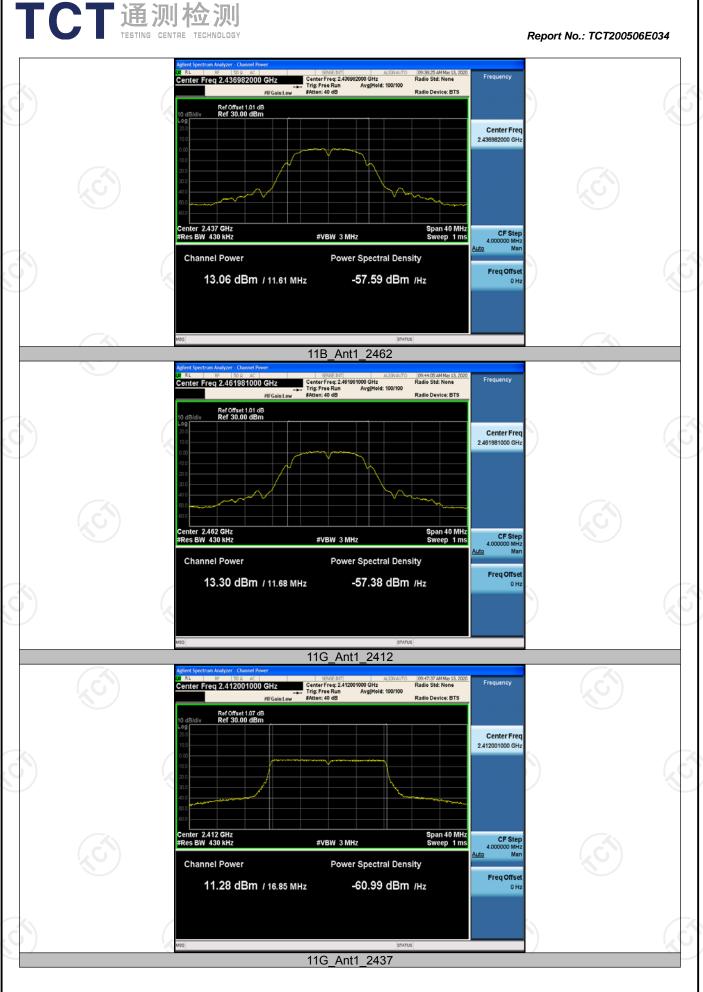
Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
		2412	12.62	<=30	PASS
11B	Ant1	2437	13.06	<=30	PASS
		2462	13.30	<=30	PASS
		2412	11.28	<=30	PASS
11G	Ant1	2437	11.88	<=30	PASS
		2462	12.01	<=30	PASS
	(.G.)	2412	10.62	<=30	PASS
11N20SISO	Ant1	2437	11.24	<=30	PASS
		2462	11.42	<=30	PASS

Test Graphs





11N20SISO Ant1 2437

Power Spectral Density

-61.88 dBm /Hz

Freq Offset

Channel Power

10.62 dBm / 17.79 MHz









Maximum power spectral density

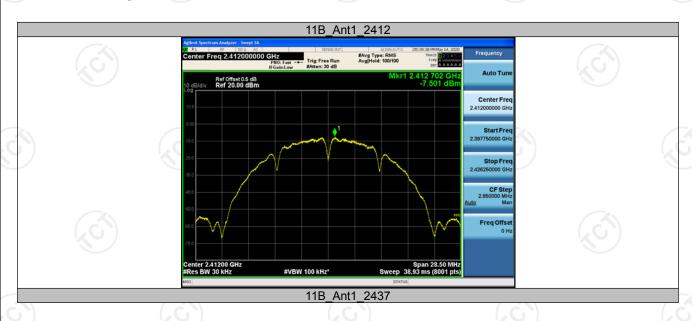
Test Result

Mode	Channel	Meas.Level [dBm/30KHz]	Meas.Level [dBm/3KHz]	Verdict
11B	LCH	-7.501	-17.501	PASS
11B	MCH	-7.343	-17.343	PASS
11B	HCH	-7.388	-17.388	PASS
11G	LCH	-9.904	-19.904	PASS
11G	MCH	-9.486	-19.486	PASS
11G	HCH	-9.791	-19.791	PASS
11N20SISO	LCH	-11.519	-21.519	PASS
11N20SISO	MCH	-11.823	-21.823	PASS
11N20SISO	HCH	-11.435	-21.435	PASS

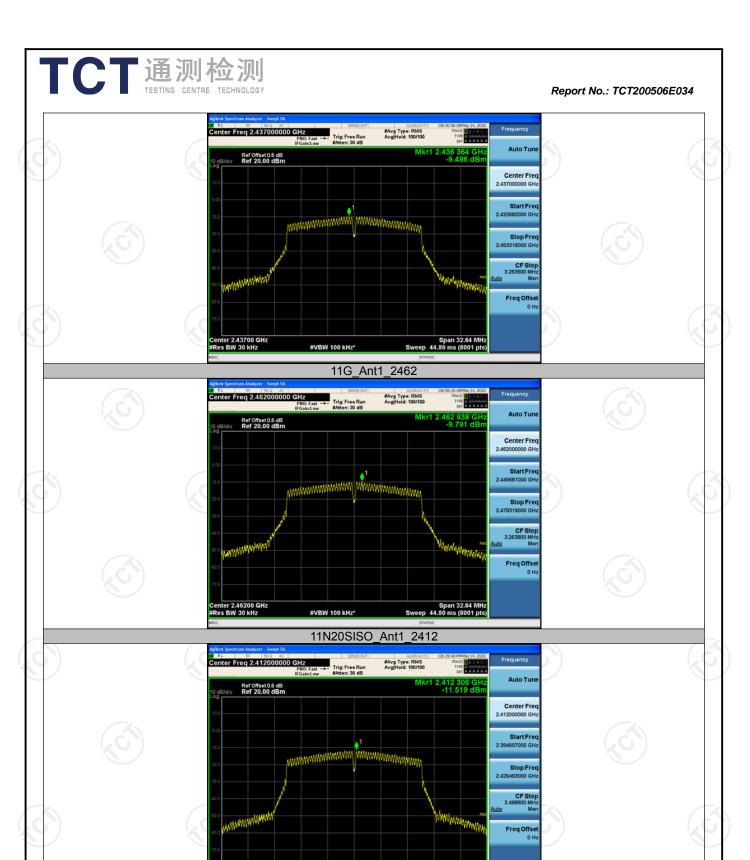
Note: Compensate 10dB is for Exchange rate of RBW

Exchange rate of RBW = 10*log10(Reference bandwidth/RBW at measurement) = -10[dB] where Reference bandwidth = 3 KHz

Test Graphs



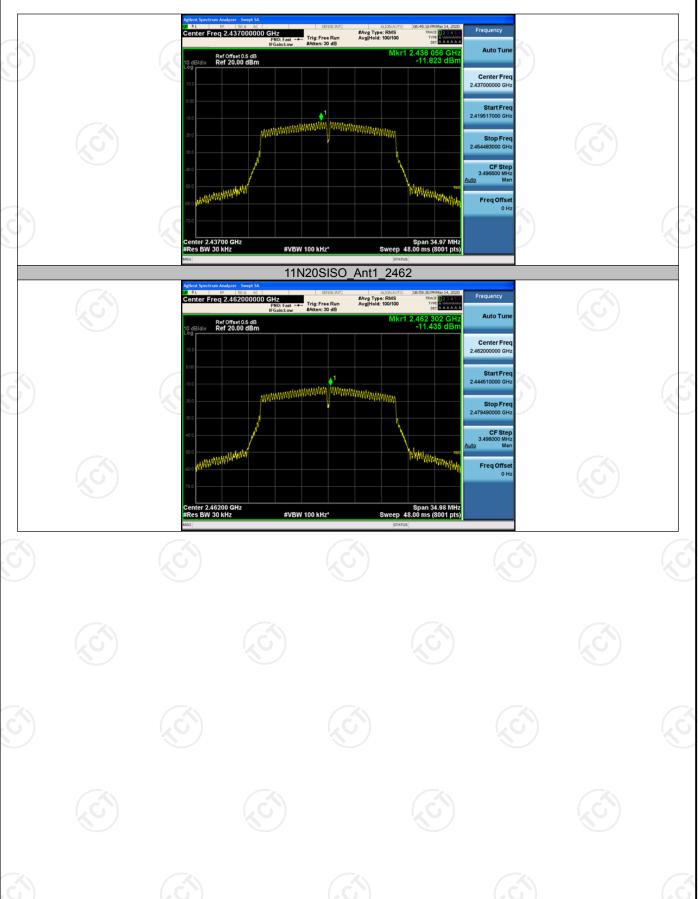




11N20SISO_Ant1_2437

#VBW 100 kHz*









Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	3.70	-44.05	<=-26.3	PASS
IID		High	2462	4.25	-52.69	<=-25.75	PASS
11G	Ant1	Low	2412	-0.23	-33.75	<=-30.23	PASS
116	AIILI	High	2462	0.63	-43.51	<=-29.38	PASS
11N20SISO	Ant1	Low	2412	-1.05	-34.86	<=-31.05	PASS
1111205150		High	2462	0.03	-42.25	<=-29.97	PASS

Test Graphs

