

TEST REPORT

FCC ID: 2AX9U-EV14-IC48128

Product: Notebook

Model No.: EV14-IC48128

Additional Model No.: EV14-IC44128, EV14-IC4464, EV14-II348128, EV14-II548128, EV14-II548256, EV14-II748256, EV14-II768256, EV14-II768512,

EV14-II7616512

Trade Mark: ismart

Report No.: TCT201103E055

Issued Date: Nov. 17, 2020

Issued for:

Canada Computers & Electronics

75 West Wilmot Street, Richmond Hill, Ontario, L4B 0B7, Canada

Issued By:

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1. Test Certification

Report No.: TCT201103E055

Product:	Notebook
Model No.:	EV14-IC48128
Additional Model No.:	EV14-IC44128, EV14-IC4464, EV14-II348128, EV14-II548128, EV14-II548256, EV14-II748256, EV14-II768256, EV14-II768512, EV14-II7616512
Trade Mark:	ismart
Applicant:	Canada Computers & Electronics
Address:	75 West Wilmot Street, Richmond Hill, Ontario, L4B 0B7, Canada
Manufacturer:	SHENZHEN SOUTH DIGITAL LIMITED
Address:	Building 1, Hao'er Jiashitai Industrial Park, Fengtang Rd., Tangwei, Fuyong Town, Baoan District, Shenzhen, China
Date of Test:	Nov. 04, 2020 – Nov. 16, 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.

Reviewed By:

Brave Zeng

Date: Nov. 16, 2020

Date: Nov. 17, 2020

Approved By: TomSm Date: Nov. 17, 2020

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)	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

- 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:	Notebook
Model No.:	EV14-IC48128
Additional Model No.:	EV14-IC44128, EV14-IC4464, EV14-II348128, EV14-II548128, EV14-II548256, EV14-II748256, EV14-II768256, EV14-II768512, EV14-II7616512
Trade Mark:	ismart
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	2.2dBi
Power Supply:	Rechargeable Li-ion Battery DC 7.6V
AC adapter:	Adapter Information: Model: JHD-AP024U-120200BA-A Input: AC 100-240V, 50/60Hz, 0.55A Output: DC 12V, 2000mA
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.



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		

Operation Frequency each of channel For 802.11n (HT40)

i	special (a) respectively							
	Channel Frequency		Channel	Frequency	Channel	Frequency	Channel	Frequency
	-	- (4	2427MHz	7	2442MHz	- -	
	-	-(,6)	5	2432MHz	8	2447MHz	(.G-)	
y	3	2422MHz	6	2437MHz	9	2452MHz		

Note:

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

802.11b/802.11g/802.11n (HT20)

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

802.11n (HT40)

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



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4. 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
802.11n(H40)	13.5Mbps

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting
	with modulation

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% 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
		,	/ /	

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 TONGCE TESTING LAB 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%

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6. Test Results and Measurement Data

6.1. Antenna requirement

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

15.203 requirement:

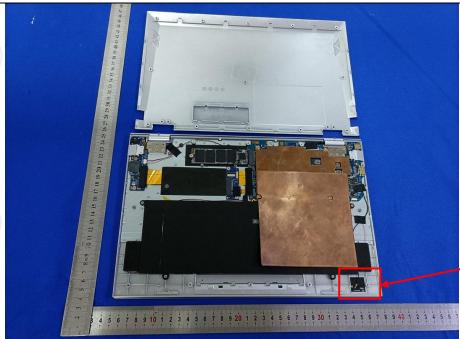
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 2.2dBi.



Antenna

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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	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto			
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	BuV) Average 56 to 46* 46 50			
Test Setup:	Reference Plane 40cm 80cm Filter AC power E.U.T AC power EMI Receiver 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:	 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					
/ 4 3 1		()				



6.2.2. Test Instruments

Cond	Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Test Receiver	R&S	ESCI3	100898	Jul. 27, 2021			
LISN-2	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2021			
Line-5	TCT	CE-05	N/A	Sep. 02, 2021			
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).

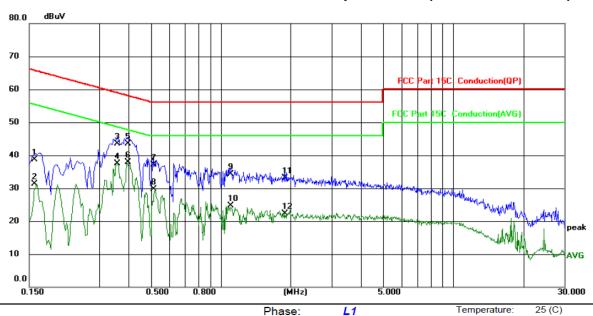




6.2.3. Test data

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)						Powe	er: /	AC 120V/60Hz		Humidity:	55 %RH	
_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Ove	r				
_			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment			
_	1		0.1580	28.48	10.22	38.70	65.57	-26.87	7 QP				
_	2		0.1580	21.01	10.22	31.23	55.57	-24.34	4 AVG				
_	3		0.3580	33.34	10.22	43.56	58.77	-15.2	1 QP				
K -	4		0.3580	27.37	10.22	37.59	48.77	-11.18	3 AVG				
_	5		0.3980	33.35	10.22	43.57	57.90	-14.33	3 QP				
_	6	*	0.3980	27.78	10.22	38.00	47.90	-9.90	AVG				
_	7		0.5140	26.86	10.22	37.08	56.00	-18.92	2 QP				
	8		0.5140	19.50	10.22	29.72	46.00	-16.28	3 AVG				
_	9		1.0940	23.91	10.37	34.28	56.00	-21.72	2 QP				
_	10		1.0940	14.39	10.37	24.76	46.00	-21.24	4 AVG				
_	11		1.8860	22.61	10.44	33.05	56.00	-22.9	5 QP				-
X -	12		1.8860	11.87	10.44	22.31	46.00	-23.69	9 AVG				

Note:

Site

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

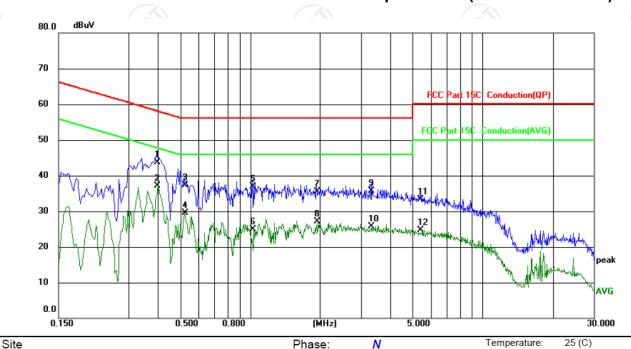
AVG =average

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^{*} 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)



	Limit: FCC Part 15C Conduction(QP)						Powe	er: AC	120V/60Hz		Humidity:	55 %RH	
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over					
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment			
	1		0.3980	33.40	10.22	43.62	57.90	-14.28	QP				
	2	*	0.3980	26.97	10.22	37.19	47.90	-10.71	AVG				
_	3		0.5220	27.18	10.22	37.40	56.00	-18.60	QP				
_	4		0.5220	19.24	10.22	29.46	46.00	-16.54	AVG				
_	5		1.0260	26.64	10.36	37.00	56.00	-19.00	QP				
_	6		1.0260	14.46	10.36	24.82	46.00	-21.18	AVG				
_	7		1.9380	25.10	10.44	35.54	56.00	-20.46	QP				
_	8		1.9380	16.65	10.44	27.09	46.00	-18.91	AVG				
_	9		3.3260	25.24	10.47	35.71	56.00	-20.29	QP				
_	10		3.3260	15.19	10.47	25.66	46.00	-20.34	AVG				
_	11		5.4059	22.90	10.48	33.38	60.00	-26.62	QP				
_	12		5.4059	14.18	10.48	24.66	50.00	-25.34	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.



6.3. Maximum Conducted (Average) Output Power

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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, 2021			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021			
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021			

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, 2021		
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2021		
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021		

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

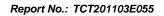
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The 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

6.5.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021		
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2021		
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021		

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

Toot Boquirement	FCC Part15 C Section 15.247 (d)
Test Requirement:	. ,
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



6.6.2. Test Instruments

	RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2021						
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 11, 2021						
Antenna Connector	TCT	RFC-01	N/A	Sep. 11, 2021						

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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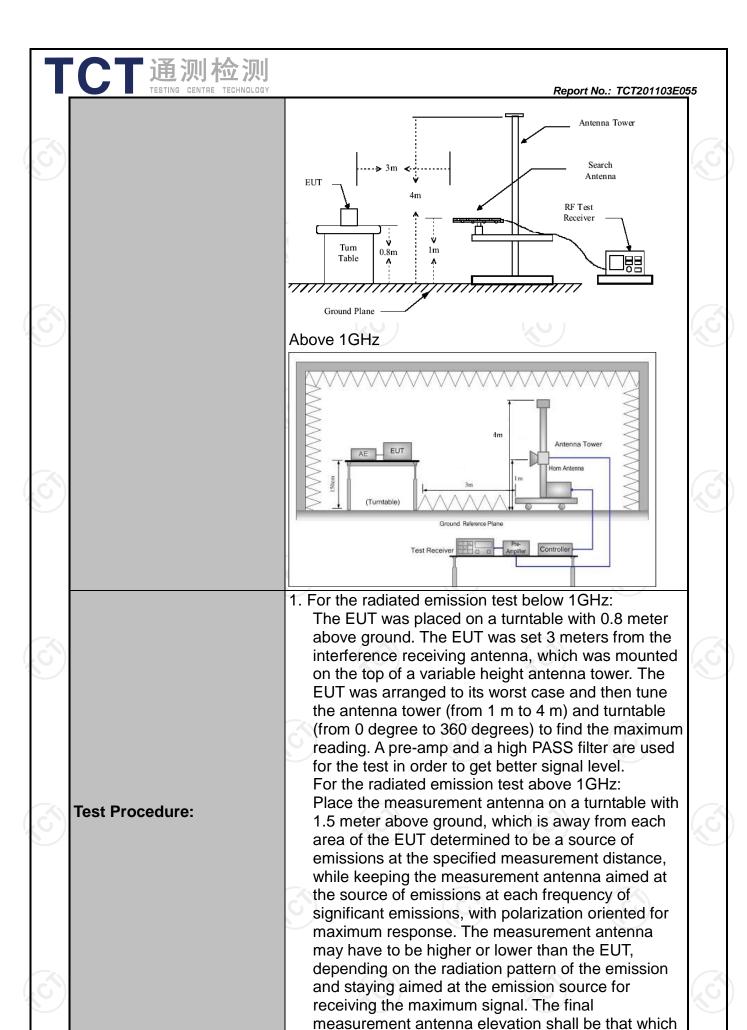
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6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15	C Sectio	n 1	5.209			
Test Method:	ANSI C63.10	0: 2013		Ž)			
Frequency Range:	9 kHz to 25 (GHz	S.)			(6)
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Transmitting	mode w	ith r	modulat	ion		
	Frequency 9kHz- 150kHz	Detector Quasi-pea	ak	RBW 200Hz	VBW 1kHz	Quas	Remark si-peak Value
Receiver Setup:	150kHz- 30MHz 30MHz-1GHz	Quasi-pea Quasi-pea		9kHz 120KHz	30kHz 300KHz		si-peak Value si-peak Value
	Above 1GHz	Peak Peak	ak	1MHz 1MHz	3MHz 10Hz	Р	eak Value erage Value
	Frequen		(Field Stre	/meter)		asurement nce (meters) 300
	0.009-0.490 0.490-1.705 1.705-30		2400/F(F 24000/F(F			30 30 30	
,	30-88 88-216		100 150				3
Limit:	216-960 Above 960		200 500				3
	Frequency			trength ts/meter)	Measure Distan (meter	се	Detector
	Above 1GHz	<u> </u>	50 50	00 00	3		Average Peak
	For radiated	emission	ns b	elow 30		Compu	ater 1
Test setup:	0.3m	Turn table	and Plan	lm ne		teceiver	
	30MHz to 10						



CT通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT201103E05	55
	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. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2021
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 02, 2021
Pre-amplifier	HP	8447D	2727A05017	Sep. 02, 2021
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 05, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 04, 2022
Antenna Mast	Keleto	RE-AM	N/A	N/A
Line-4	ТСТ	RE-high-04	N/A	Sep. 02, 2021
Line-8	тст	RE-01	N/A	Jul. 27, 2021
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

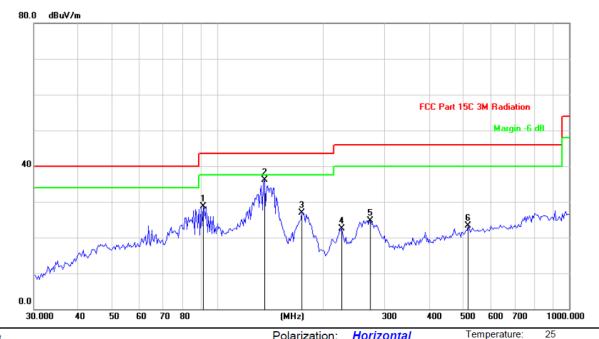
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.7.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

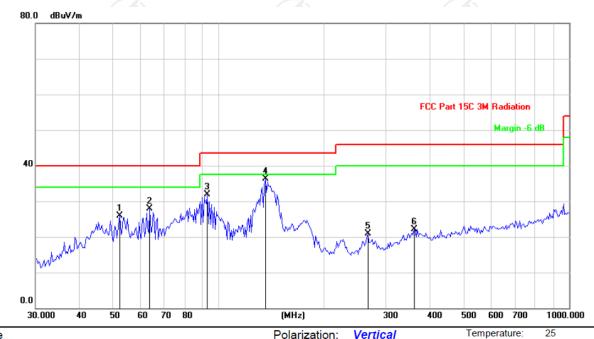


Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: AC 120V/60Hz Humidity: 55 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
× -			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
_	1		91.0574	38.80	-10.15	28.65	43.50	-14.85	peak
_	2	*	135.9163	51.82	-15.81	36.01	43.50	-7.49	peak
	3		173.8146	42.18	-15.18	27.00	43.50	-16.50	peak
	4	2	225.4267	35.87	-13.28	22.59	46.00	-23.41	peak
X	5	2	272.5246	36.59	-11.82	24.77	46.00	-21.23	peak
<u> </u>	6	ļ	516.5651	30.62	-7.26	23.36	46.00	-22.64	peak



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		52.2659	36.40	-10.55	25.85	40.00	-14.15	peak
X	2		63.6312	41.44	-13.56	27.88	40.00	-12.12	peak
_	3		92.9974	41.55	-9.68	31.87	43.50	-11.63	peak
	4	*	135.9163	52.16	-15.81	36.35	43.50	-7.15	peak
_	5		266.8395	32.88	-12.01	20.87	46.00	-25.13	peak
_	6		360.9775	31.68	-9.53	22.15	46.00	-23.85	peak

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

- 2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Lowest channel and 802.11b) was submitted only.
- 3. Freq. = Emission frequency in MHz
 Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB)
 Correction Factor= Antenna Factor + Cable loss Pre-amplifier
 Limit (dBμV/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

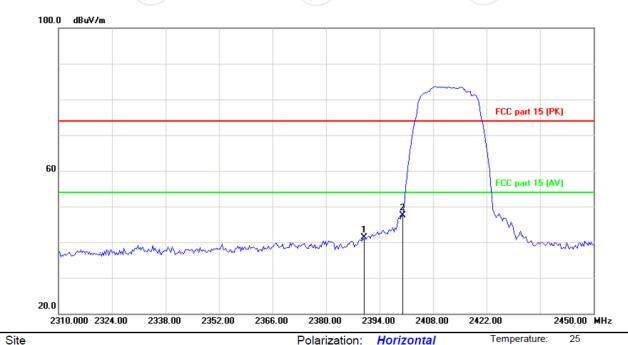
^{*} is meaning the worst frequency has been tested in the test frequency range



Test Result of Radiated Spurious at Band edges

Lowest channel 2412:

Horizontal:

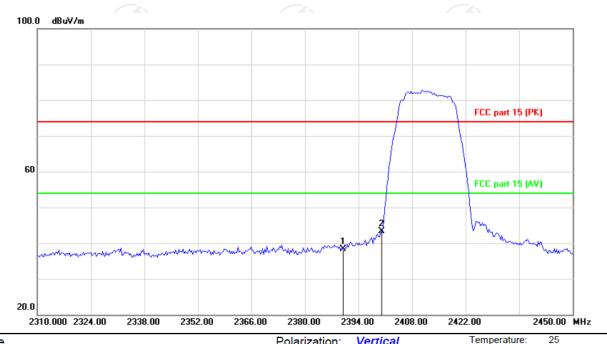


Site Polarization: Horizontal Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

	No.	Mk	c. Freq.	•		Measure- ment	Limit	Over	
_			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
5	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

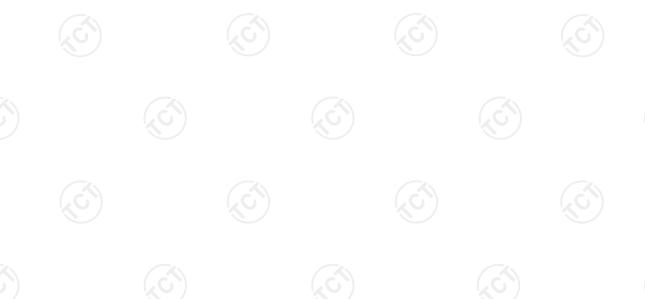


Vertical:



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

_	No.	Mk	. 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
3	2	*	2400.000	56.46	-13.12	43.34	74.00	-30.66	peak





Humidity:

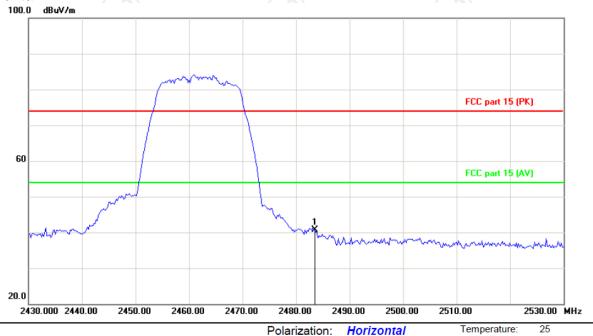
55 %

Highest channel 2462:

Horizontal:

Site

Limit: FCC part 15 (PK)

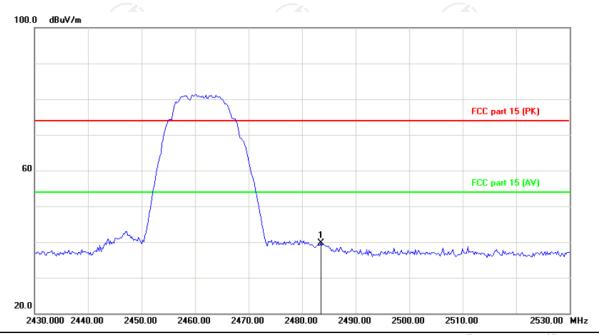


No.	MI	k. Freq.			Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	2483.500	53.44	-12.74	40.70	74.00	-33.30	peak

Power:



Vertical:



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

No. Mk	. Freq.			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

- 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), 802.11n(HT40)), and the worst case Mode 802.11b) was submitted only.



Above 1GHz

Report No.: TCT201103E055

			М	odulation T	ype: 802.11	lb			
			L	ow channe	I: 2412 MH:	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	I	47.64		0.75	48.39		74	54	-5.61
7236	Τ	37.05		9.87	46.92		74	54	-7.08
	H		(A)			4			
	(C)		('0'))		(C)		(, (),	
4824	V	45.96	-77	0.75	46.71		74	54	-7.29
7236	V	35.38		9.87	45.25		74	54	-8.75
	V								

		(G)	М	iddle chann	el: 2437MF	łz			(.0
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)
4874	Η	47.87		0.97	48.84	-	74	54	-5.16
7311	Ξ	38.41		9.83	48.24		74	54	-5.76
	H		120			2		120	
4874	V	47.02		0.97	47.99		74	54	-6.01
7311	V	36.56		9.83	46.39		74	54	-7.61
	V								

	High channel: 2462 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4924	Н	48.94	<i></i>	1.18	50.12		74	54	-3.88				
7386	Н	37.17		10.07	47.24		74	54	-6.76				
	Н												
4924	V	47.60		1.18	48.78		74	54	-5.22				
7386	V	36.29		10.07	46.36		74	54	-7.64				
P /	V	3			<i>)</i>		<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.
- 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.





Report No.: TCT201103E055
Modulation Type: 802.11q

	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	47.75		0.75	48.50		74	54	-5.50		
7236	Η	37.64		9.87	47.51		74	54	-6.49		
	Н										
4824	V	46.06	[_ C]	0.75	46.81	(O)	74	54	-7.19		
7236	V	34.32	-33	9.87	44.19	<u></u>	74	54	-9.81		
	V										

Z\	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	I	46.91		0.97	47.88		74	54	-6.12			
7311	T	36.26		9.83	46.09		74	54	-7.91			
/	H			\	/				\			
1			Ϋ́Ο,)				KO.)			
4874	V	46.71		0.97	47.68		74	54	-6.32			
7311	V	37.32		9.83	47.15		74	54	-6.85			
	V											

		(20)	Н	ligh channe	I: 2462 MH	Z	(20)		K
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	T	47.55		1.18	48.73		74	54	-5.27
7386	Н	37.67		10.07	47.74		74	54	-6.26
'4	H				7			-4-	
4924	V	46.98		1.18	48.16		74	54	-5.84
7386	V	35.34		10.07	45.41		74	54	-8.59
	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.
- 6. All the restriction bands are compliance with the limit of 15.209.





Modulation Type: 802.11n (HT20)

			Modu	lation Type:	: 802.11n (I	H120)			
			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)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	48.67		0.75	49.42		74	54	-4.58
7236	Н	39.50		9.87	49.37		74	54	-4.63
	Н								
/									
4824	GV	47.13	F-0,	0.75	47.88	(C+	74	54	-6.12
7236	V	36.28	-77	9.87	46.15	<u></u>	74	54	-7.85
	\/								

Z.			М	iddle chann	el: 2437MF	łz			
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)
4874	Н	47.34		0.97	48.31		74	54	-5.69
7311	Н	36.68		9.83	46.51		74	54	-7.49
/	Н		<i>+</i>		/				
	(0)		KO.)		(0)		KO.	
4874	V	46.71		0.97	47.68		74	54	-6.32
7311	V	37.02		9.83	46.85		74	54	-7.15
	V								

- 1									/ /
9)		(0)	Н	ligh channe	l: 2462 MH	Z	(20)		K
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	H	46.26		1.18	47.44		74	54	-6.56
7386	Н	34.87		10.07	44.94	. 6. 24	74	54	-9.06
'	Н		**			<i>-</i> /-		-4	
4924	V	44.35		1.18	45.53		74	54	-8.47
7386	V	34.11		10.07	44.18		74	54	-9.82
	>								(

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.



Report No.: TCT201103E055



Modulation Type: 802.11n (HT40)

			Modu	lation Type:	: 802.11n (F	H140)			
			L	ow channe	I: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	44.80		0.75	45.55		74	54	-8.45
7266	Н	33.75		9.87	43.62		74	54	-10.38
	Η								
/					/				
4824	OV	43.64	F-0,	0.75	44.39	(C+	74	54	-9.61
7236	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	34.38	-77	9.87	44.25	<u></u>	74	54	-9.75
	\/								

Ž\			М	iddle chann	el: 2437MF	łz			
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	43.27		0.97	44.24		74	54	-9.76
7311	Н	33.05		9.83	42.88		74	54	-11.12
/	Н		<i>+</i>		/			-	
	(0)		KO.)	1	(0)		KO.)
4874	٧	42.39		0.97	43.36		74	54	-10.64
7311	V	31.78		9.83	41.61		74	54	-12.39
	V								

			Н	ligh channe	l: 2452 MH	Z			
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)
4904	Н	44.75		1.18	45.93		74	54	-8.07
7356	Н	34.02		10.07	44.09	. 6. 24	74	54	-9.91
	Н								
4904	V	42.61		1.18	43.79		74	54	-10.21
7356	V	32.25		10.07	42.32		74	54	-11.68
	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.



Report No.: TCT201103E055

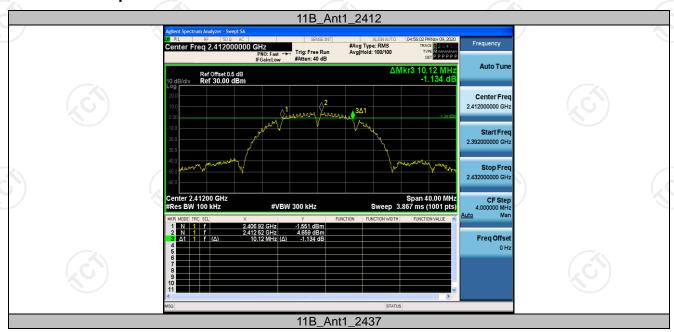


Appendix A: Test Result of Conducted Test DTS Bandwidth

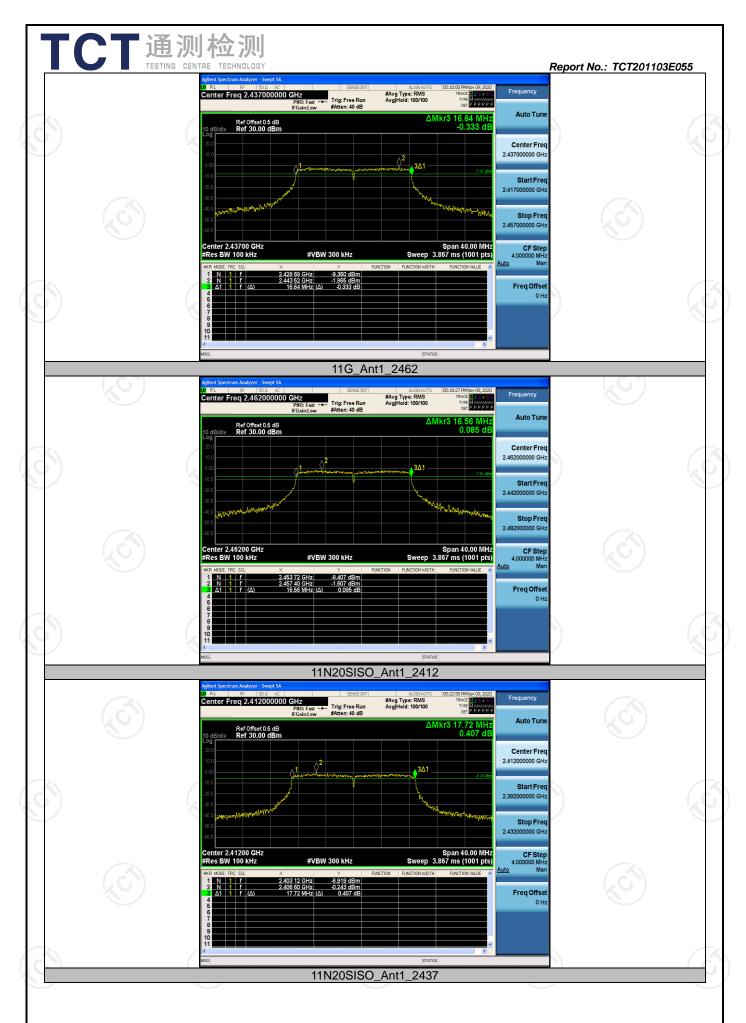
Test Result

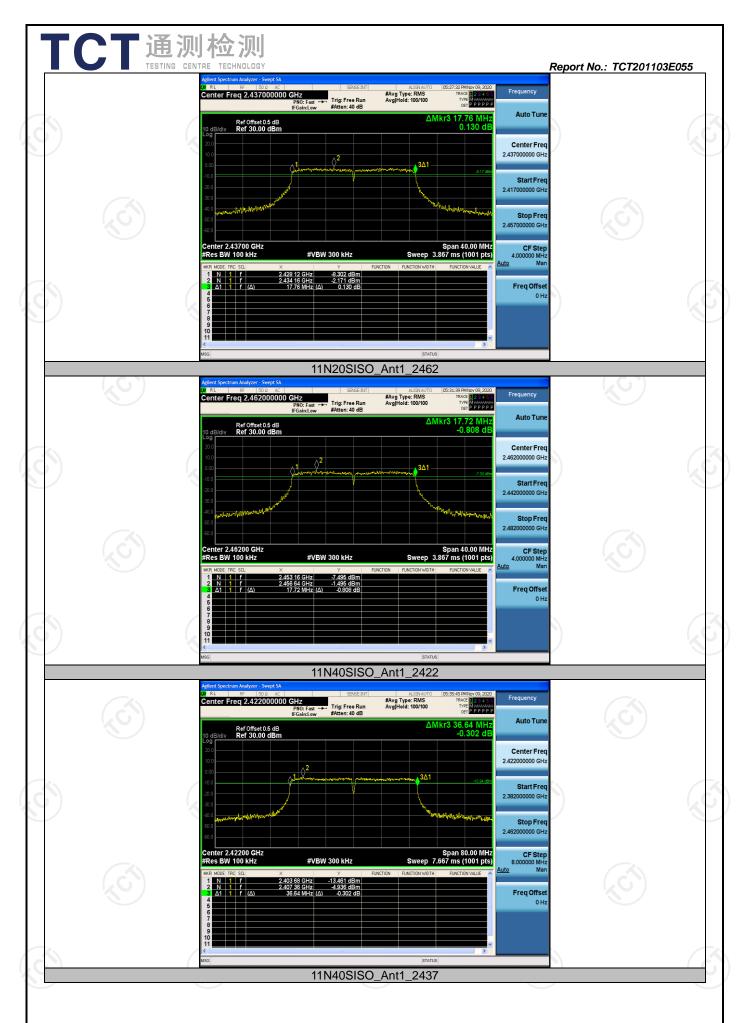
Test Mode	Antenna	Channel	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit[MHz]	Verdict
		2412	10.120	2406.920	2417.040	0.5	PASS
11B	Ant1	2437	10.160	2431.920	2442.080	0.5	PASS
		2462	10.160	2456.920	2467.080	0.5	PASS
		2412	16.640	2403.680	2420.320	0.5	PASS
11G	Ant1	2437	16.640	2428.680	2445.320	0.5	PASS
		2462	16.560	2453.720	2470.280	0.5	PASS
		2412	17.720	2403.120	2420.840	0.5	PASS
11N20SISO	Ant1	2437	17.760	2428.120	2445.880	0.5	PASS
		2462	17.720	2453.160	2470.880	0.5	PASS
		2422	36.640	2403.680	2440.320	0.5	PASS
11N40SISO	Ant1	2437	36.640	2418.680	2455.320	0.5	PASS
		2452	36.640	2433.680	2470.320	0.5	PASS

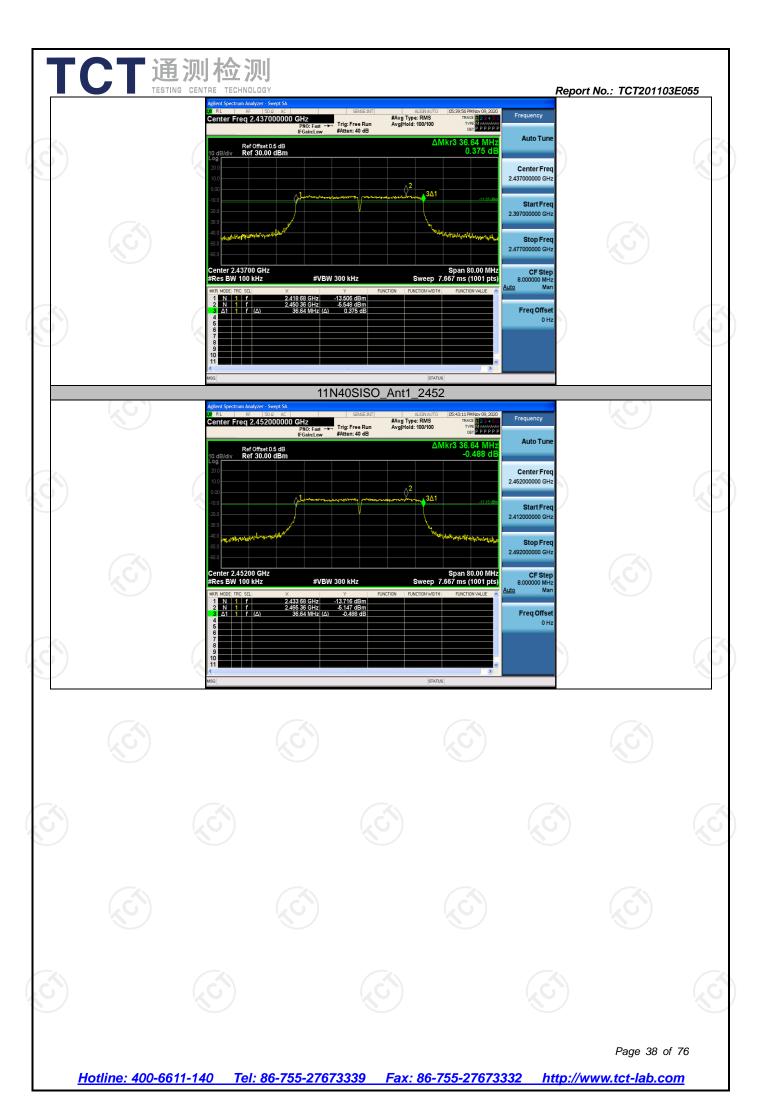
Test Graphs









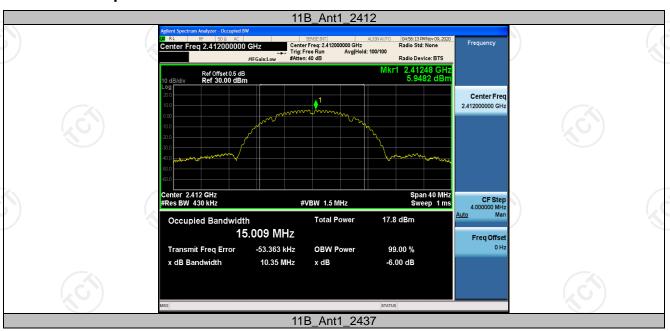


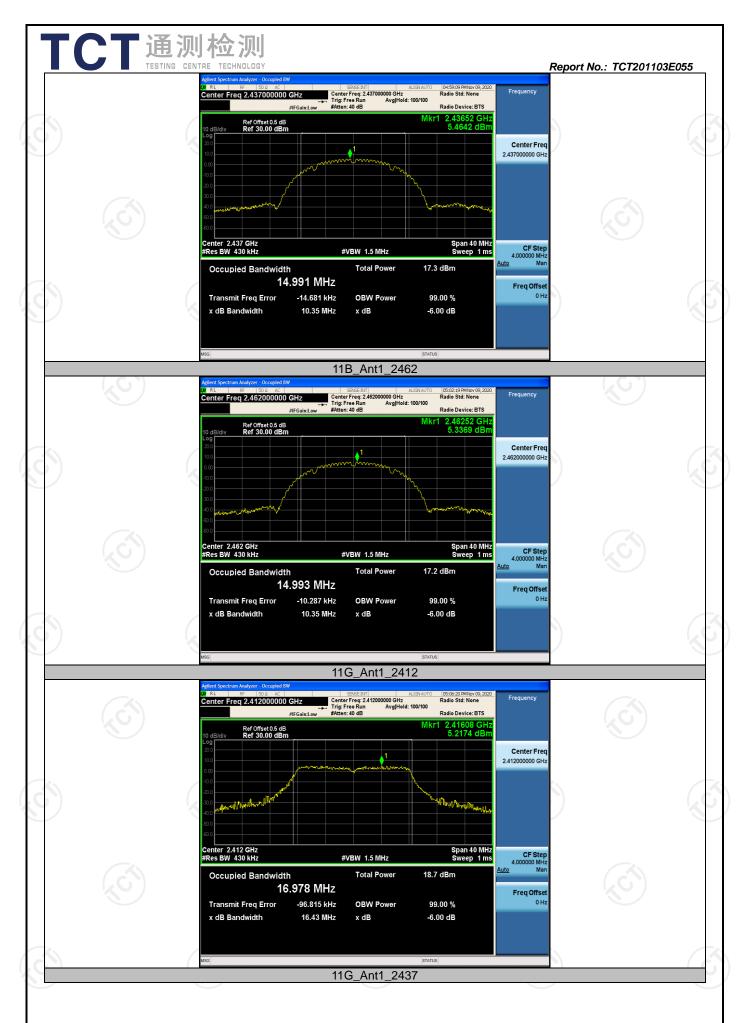


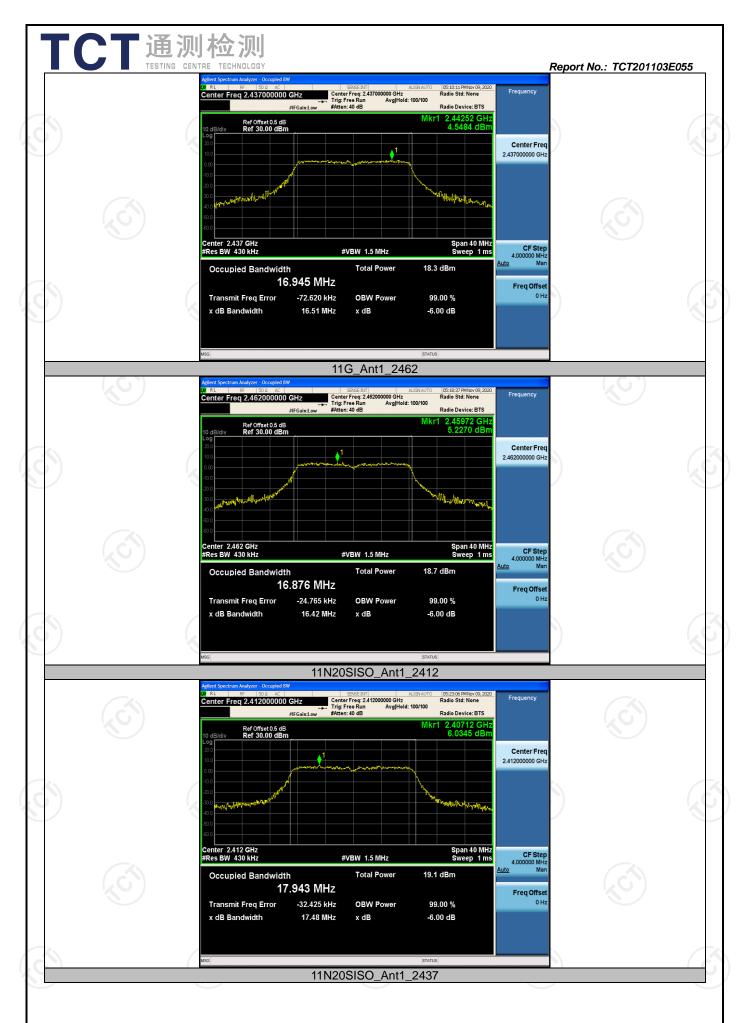
Occupied Channel Bandwidth

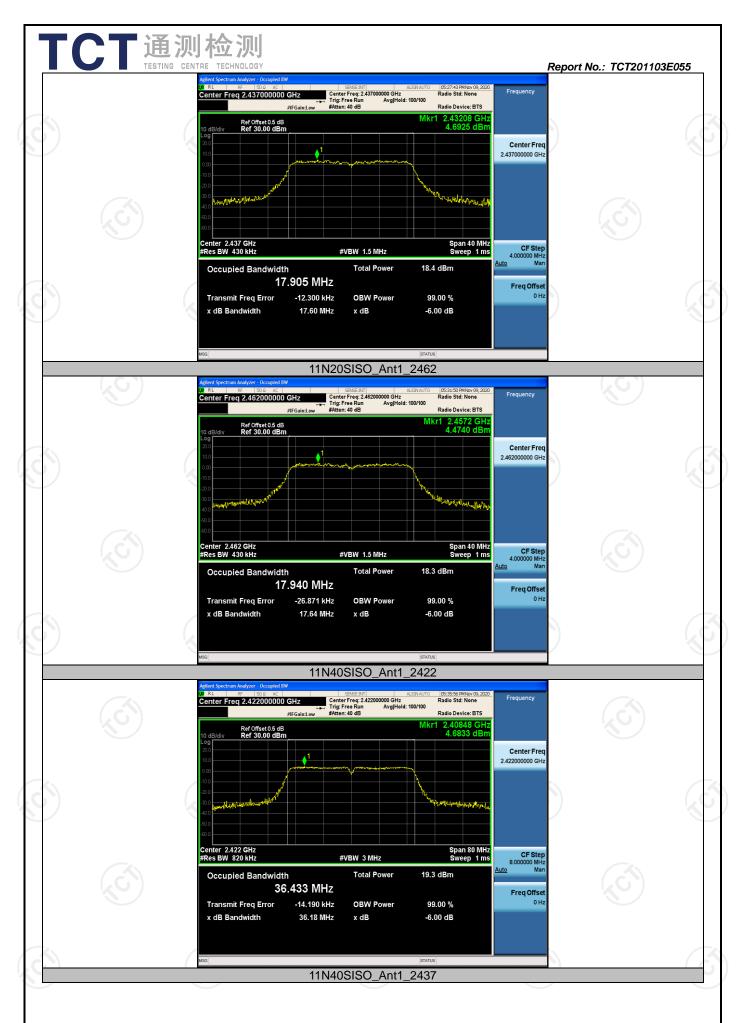
Test Result

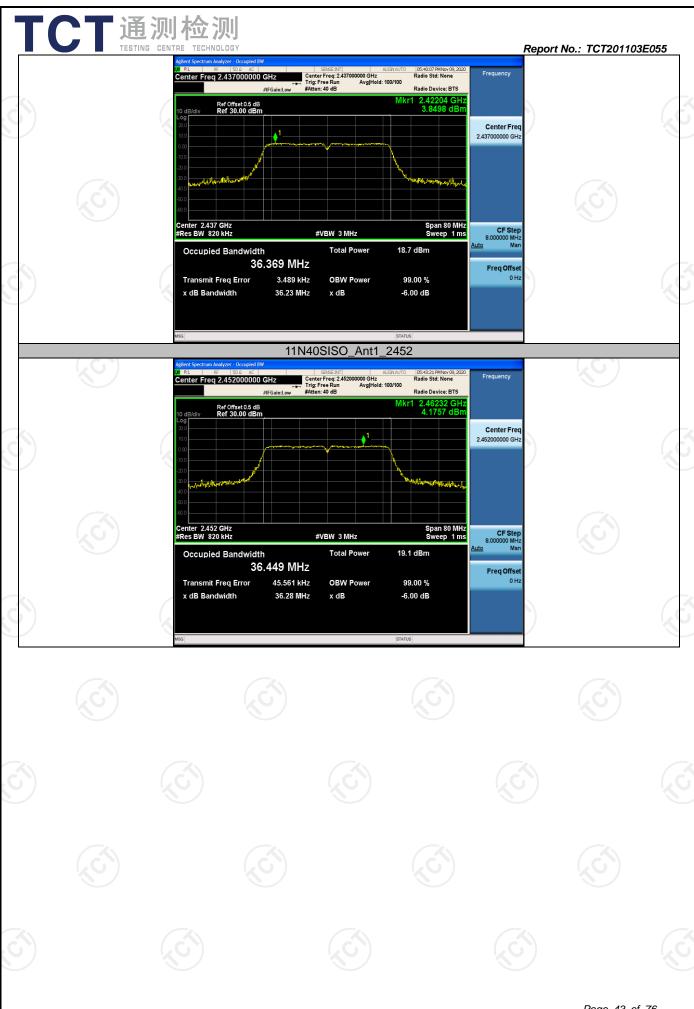
Test Mode	Antenna	Channel	OCB [MHz]	FL [MHz]	FH [MHz]	Limit[MHz]	Verdict
	Ant1	2412	15.009	2404.442	2419.451		PASS
11B		2437	14.991	2429.490	2444.481		PASS
120		2462	14.993	2454.493	2469.486	- // O.)	PASS
	Ant1	2412	16.978	2403.414	2420.392		PASS
11G		2437	16.945	2428.455	2445.400		PASS
		2462	16.876	2453.537	2470.413		PASS
11N20SISO	Ant1	2412	17.943	2402.996	2420.939		PASS
		2437	17.905	2428.035	2445.940		PASS
		2462	17.940	2453.003	2470.943		PASS
11N40SISO	Ant1	2422	36.433	2403.769	2440.202		PASS
		2437	36.369	2418.819	2455.188		PASS
		2452	36.449	2433.821	2470.270		PASS









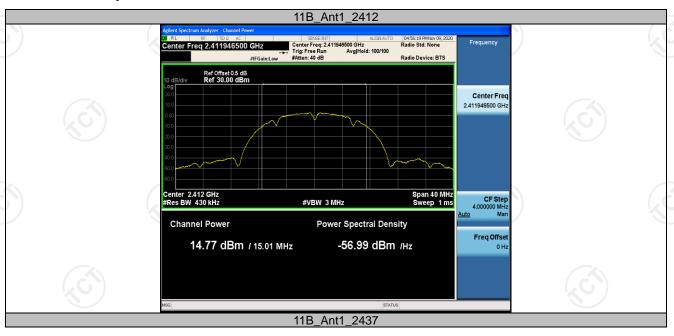


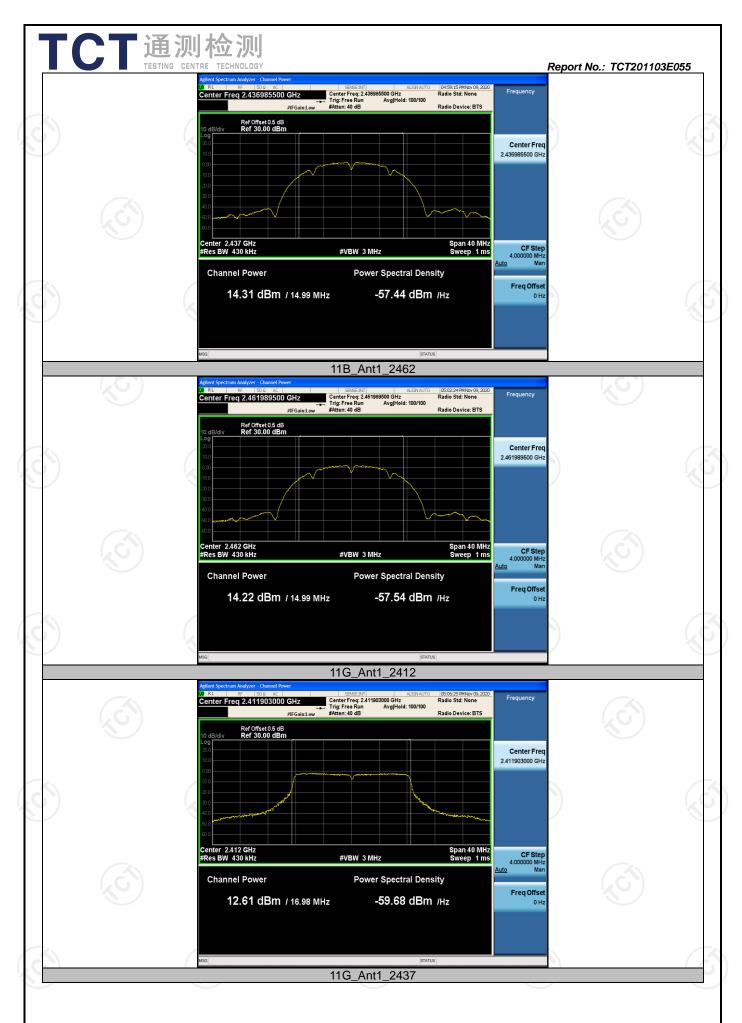


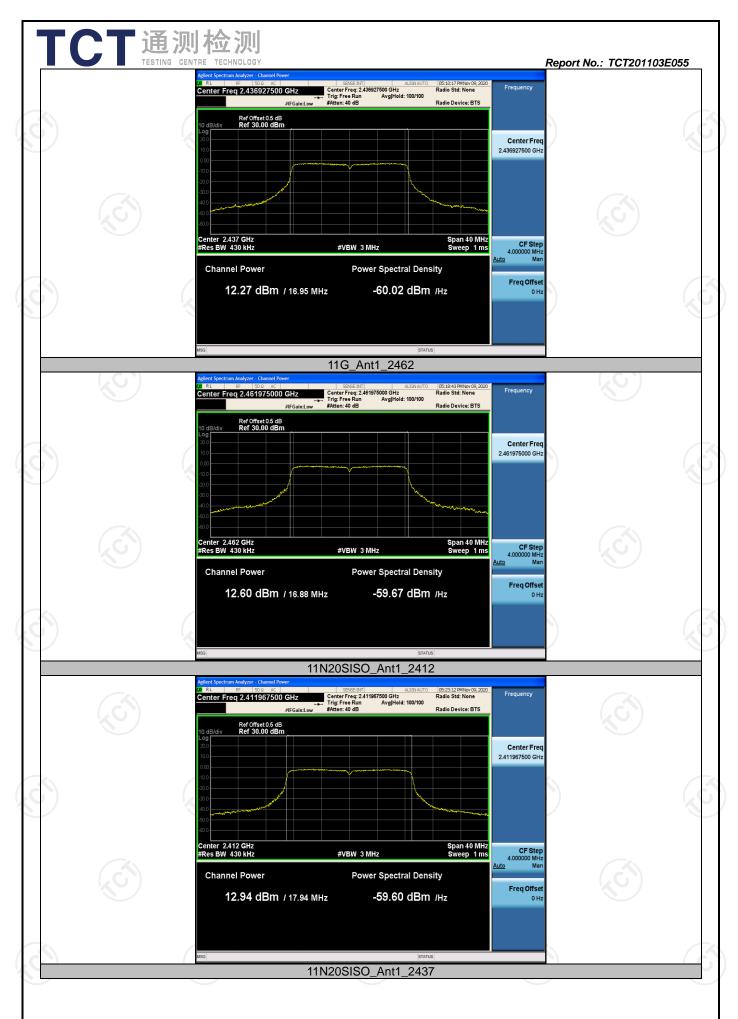
Maximum conducted output power

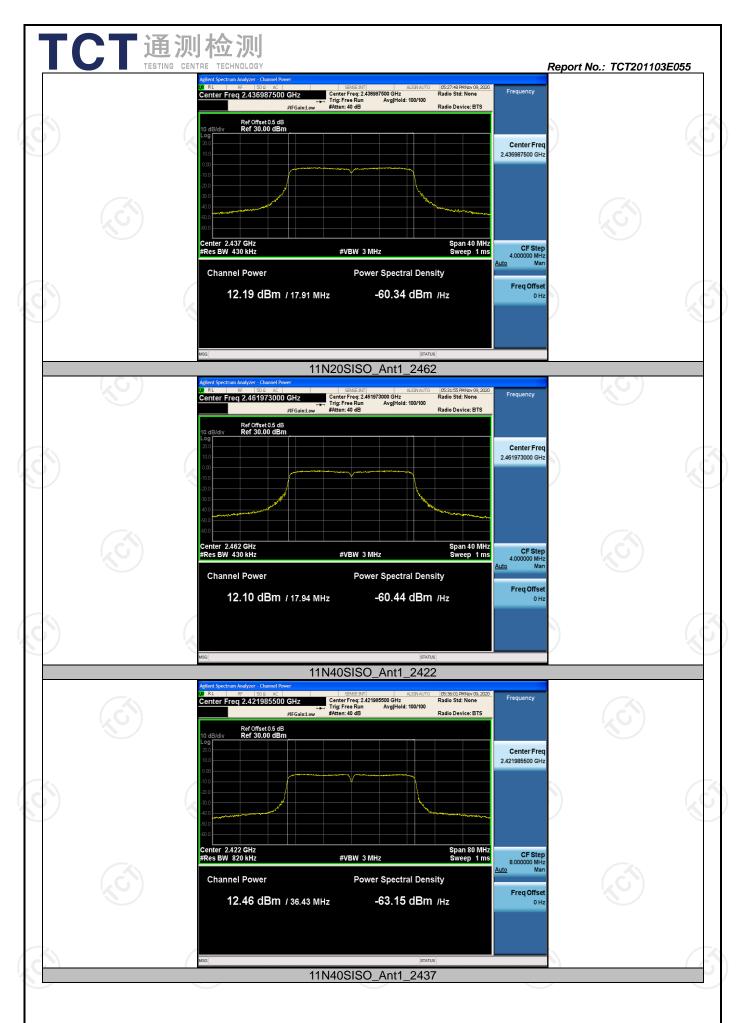
Test Result

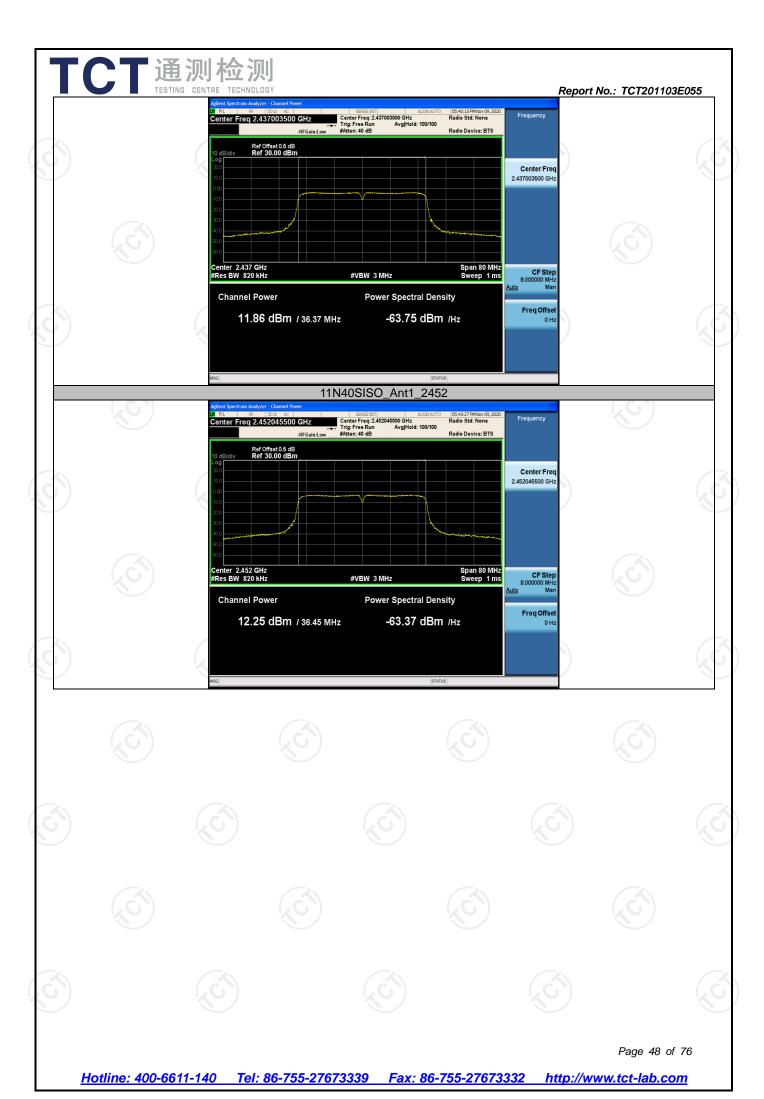
Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.77	<=30	PASS
		2437	14.31	<=30	PASS
		2462	14.22	<=30	PASS
11G	Ant1	2412	12.61	<=30	PASS
		2437	12.27	<=30	PASS
		2462	12.60	<=30	PASS
11N20SISO	Ant1	2412	12.94	<=30	PASS
		2437	12.19	<=30	PASS
		2462	12.10	<=30	PASS
11N40SISO	Ant1	2422	12.46	<=30	PASS
		2437	11.86	<=30	PASS
		2452	12.25	<=30	PASS









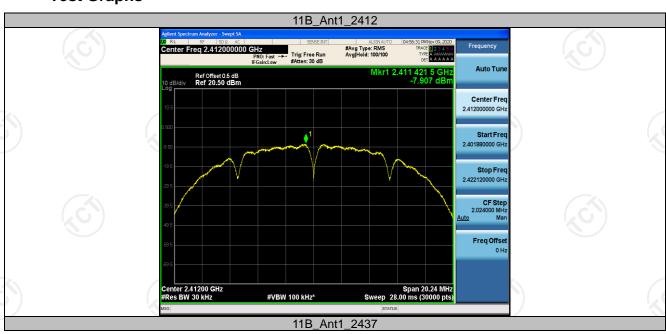


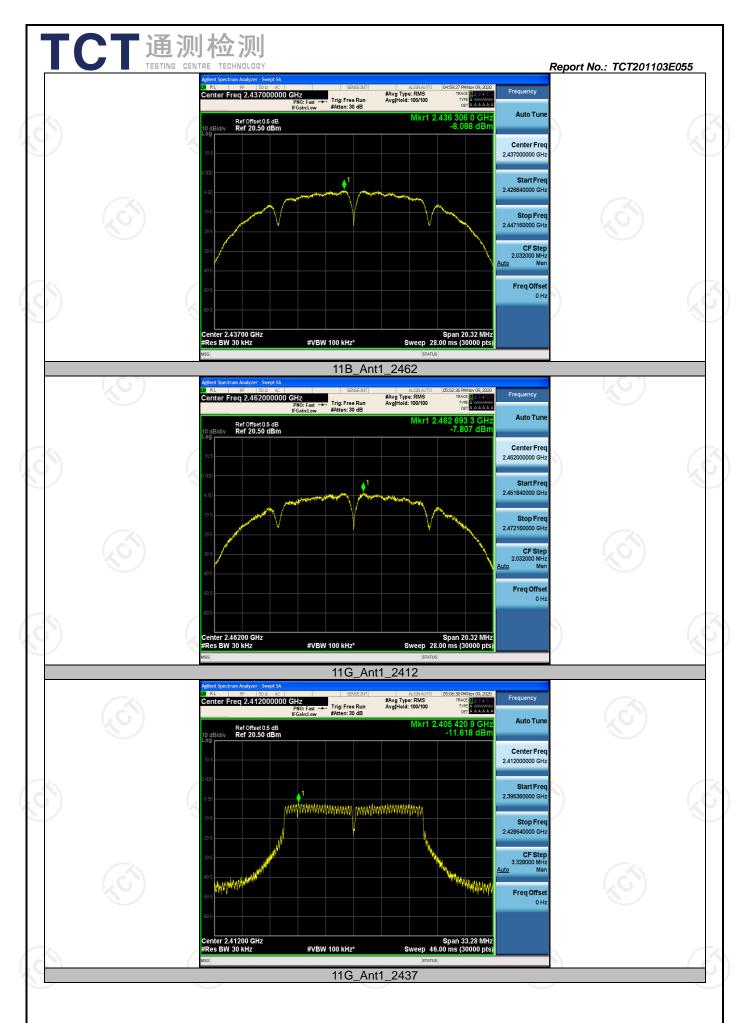


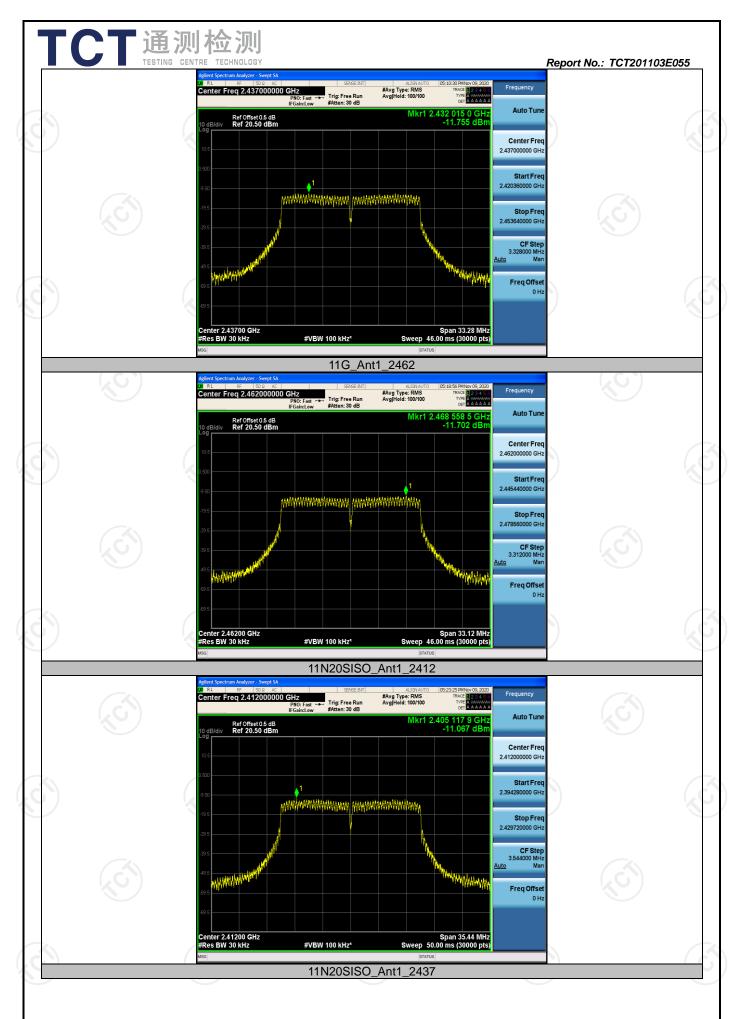
Maximum power spectral density

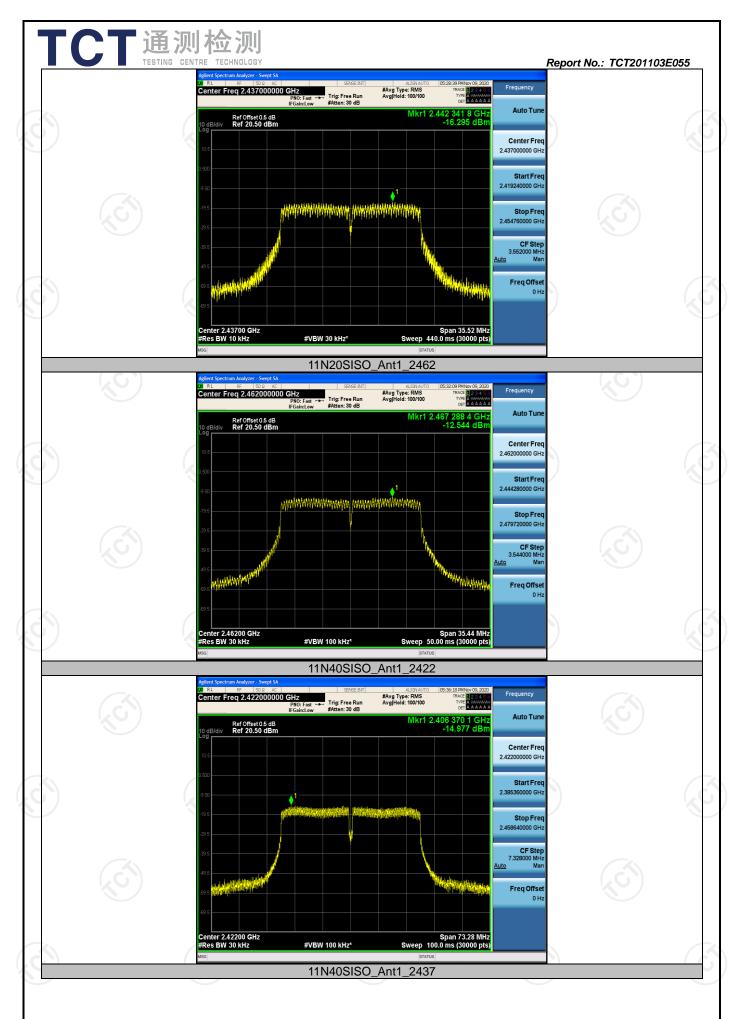
Test Result

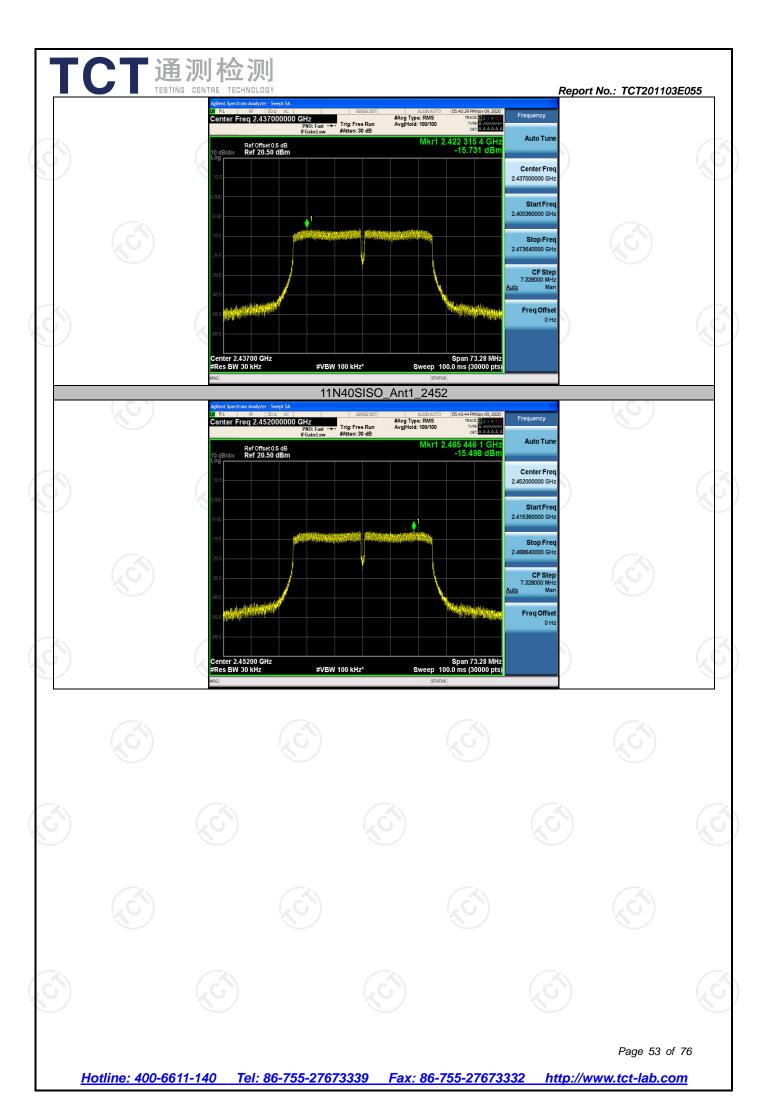
Test Mode	Antenna	Channel	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-7.91	-17.91	<=8	PASS
		2437	-8.09	-18.09	<=8	PASS
		2462	-7.81	-17.81	<=8	PASS
11G	Ant1	2412	-11.62	-21.62	<=8	PASS
		2437	-11.76	-21.76	<=8	PASS
		2462	-11.70	-21.70	<=8	PASS
11N20SIS O	Ant1	2412	-11.07	-21.07	<=8	PASS
		2437	-16.30	-26.30	<=8	PASS
		2462	-12.54	-22.54	<=8	PASS
11N40SIS O	Ant1	2422	-14.98	-24.98	<=8	PASS
		2437	-15.73	-25.73	<=8	PASS
		2452	-15.50	-25.50	<=8	PASS













Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.66	-37.36	<=-25.35	PASS
		High	2462	4.10	-49.41	<=-25.90	PASS
11G	Ant1	Low	2412	-1.26	-33.30	<=-31.26	PASS
		High	2462	-1.59	-46.26	<=-31.59	PASS
11N20SISO	Ant1	Low	2412	-0.24	-34.28	<=-30.24	PASS
		High	2462	-1.84	-45.91	<=-31.84	PASS
11N40SISO	Ant1	Low	2422	-4.81	-36.08	<=-34.81	PASS
		High	2452	-4.65	-39.95	<=-34.65	PASS



