

Test Report

Applicant:	Computime Ltd.					
Address of Applicant:	6/F, Bldg 20E, Phase 3, Hong Kong Science Park, 20 Science Park East Ave, Shatin, New Territories, Hong Kong					
Manufacturer/Factory:	COMPUTIME ELECTRONICS (SHENZHEN) CO., LTD.					
Address of Manufacturer/Factory:	Computime Technology Pk, Dan Zhu Tou Cun Buji, Longgang Region Shenzhen China					
Equipment Under Test (E	EUT)					
Product Info:	ZigBee module					
Model No.:	CTL3212					
Trade Mark:	Computime					
FCC ID:	2AAUQ-CTL3212					
IC:	1700A-CTL3212					
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247					
	RSS-Gen Issue 5: March 2019, Amendment 1. RSS-247 Issue 2: February 2017					
Date of sample receipt:	October 14, 2019					
Date of Test:	October 15-24, 2019					
Date of report issued:	October 24, 2019					
Test Result :	PASS *					

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

8019

Robinson Lo Laboratory Manager

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2 Version

Version No.	Date	Description
00	October 24, 2019	Original

Prepared By:

Check By:

(jor Che

Date:

October 24, 2019

Project Engineer

binson

Date:

October 24, 2019

Reviewer



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4 Test Summary

Test Item	Section	Result		
Antonno requirement	FCC part 15.203/15.247 (c)	Pass		
Antenna requirement	RSS-Gen Section 6.8	F 855		
AC Power Line Conducted	FCC part 15.207	Pass		
Emission	RSS-Gen Section 8.8	F 855		
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass		
	RSS-247 Section 5.4(d)	F 855		
	FCC part 15.247 (a)(2)			
Channel Bandwidth & 99% OCB	annel Bandwidth & 99% OCB RSS-247 Section 5.2(a)			
	RSS-Gen Section 6.7			
Power Spectral Density	FCC part 15.247 (e)	Pass		
Power Spectral Density	RSS-247 Section 5.2(b)	F 855		
Band Edge	FCC part 15.247(d)	Pass		
Ballu Euge	RSS-247 Section 5.5	F 855		
Spurious, Emission	FCC part 15.205/15.209	Pass		
Spurious Emission	RSS-Gen Section 3.3 & 8.9 & 8.10	F 033		
Frequency stability	RSS-Gen Section 6.11& Section 8.11	Pass		

Pass: The EUT complies with the essential requirements in the standard.

Remark : Test according to ANSI C63.10:2013

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)
Note (1): The measurement unce	rtainty is for coverage factor of k	=2 and a level of confidence of	95%.



5 General Information

5.1 General Description of EUT

Product Info:	ZigBee module			
Model No.:	CTL3212			
Serial No.:	N/A			
Hardware version:	3.0			
Software version:	v1.0			
Test sample(s) ID:	GTS201910000059-1			
Sample(s) Status	Engineer sample			
Operation Frequency:	2405MHz~2480MHz			
Channel numbers:	16			
Channel separation:	5MHz			
Modulation type:	O-QPSK			
Antenna Type:	PCB Antenna			
Antenna gain:	7.28dBi (Declared by manufacturer)			
Power supply:	DC 3.3V			



Operation Frequency each of channel									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
11	2405MHz	15	2425MHz	19	2445MHz	23	2465MHz		
12	2410MHz	16	2430MHz	20	2450MHz	24	2470MHz		
13	2415MHz	17	2435MHz	21	2455MHz	25	2475MHz		
14	2420MHz	18	2440MHz	22	2460MHz	26	2480MHz		

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:

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
0	est, the test voltage was tuned from 85% to 115% of the nominal rated supply at the worst case was under the nominal rated supply condition. So the report just a data.

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number		
Apple	PC	A1278	C1MN99ERDTY3		

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

• FCC — Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• IC — Registration No.: 9079A

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional instructions

Software (Used for test) from client

Special test command provide by manufacturer, power set default, test version V1.0



6 Test Instruments list

Rad	Radiated Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	ZhongYu Electron	ectron 9.2(L)*6.2(W)* 6.4(H) G ⁻		July. 03 2015	July. 02 2020			
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A			
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 26 2019	June. 25 2020			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 26 2019	June. 25 2020			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 26 2019	June. 25 2020			
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 26 2019	June. 25 2020			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
8	Coaxial Cable	GTS	N/A	GTS213	June. 26 2019	June. 25 2020			
9	Coaxial Cable	GTS	N/A	GTS211	June. 26 2019	June. 25 2020			
10	Coaxial cable	GTS	N/A	GTS210	June. 26 2019	June. 25 2020			
11	Coaxial Cable	GTS	N/A	GTS212	June. 26 2019	June. 25 2020			
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 26 2019	June. 25 2020			
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 26 2019	June. 25 2020			
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 26 2019	June. 25 2020			
15	Band filter	Amindeon	82346	GTS219	June. 26 2019	June. 25 2020			
16	Power Meter	Anritsu	ML2495A	GTS540	June. 26 2019	June. 25 2020			
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 26 2019	June. 25 2020			
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 26 2019	June. 25 2020			
19	Splitter	Agilent	11636B	GTS237	June. 26 2019	June. 25 2020			
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 26 2019	June. 25 2020			
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 19 2019	Oct. 18 2020			
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 19 2019	Oct. 18 2020			
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 19 2019	Oct. 18 2020			
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 26 2019	June. 25 2020			



Chamber

Report No.: GTS201910000059-01

Con	ducted Emission										
ltem	Test Equipment	Manufacturer		Model No	0.		ntory lo.	Cal.Date (mm-dd-y		Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Elec	tron	7.3(L)x3.1(W)x2.9(H) GTS2					May.14 2022		
2	EMI Test Receiver	R&S		ESCI 7		GTS	\$552	June. 26 20)19	June. 25 2020	
3	Coaxial Switch	ANRITSU CC	RP	MP59B		GTS	3225	June. 26 20)19	June. 25 2020	
4	Artificial Mains Network	SCHWARZBE MESS	CK	NSLK812	7	GTS	6226	June. 26 20)19	June. 25 2020	
5	Coaxial Cable	GTS		N/A		GTS	5227	N/A		N/A	
6	EMI Test Software	AUDIX		E3		N	/A	N/A		N/A	
7	Thermo meter	KTJ		TA328		GTS	5233	June. 26 20)19	June. 25 2020	
8	Absorbing clamp	Elektronik- Feinmechan		MDS21			\$229	June. 26 20		June. 25 2020	
9	ISN	SCHWARZBE	CK	NTFM 815	8	GTE	0565	June. 26 20)19	June. 25 2020	
RF C	Conducted Test:										
ltem	Test Equipment	Manufacturer		Model No.	Seria	al No.	Cal.Date (mm-dd-yy)			Cal.Due date (mm-dd-yy)	
1	MXA Signal Analyzer	Agilent		N9020A	GTS	GTS566 June		une. 26 2019 J		June. 25 2020	
2	EMI Test Receiver	R&S		ESCI 7	GTS552 June		e. 26 2019	J	une. 25 2020		
3	Spectrum Analyzer	Agilent		E4440A	GTS	\$533	533 June. 26 2019		J	une. 25 2020	
4	MXG vector Signal Generator	Agilent		N5182A	GTS	567	June	e. 26 2019	J	une. 25 2020	
5	ESG Analog Signal Generator	Agilent		E4428C	GTS	GTS568 June. 26 2019		J	une. 25 2020		
6	USB RF Power Sensor	DARE		RPR3006W	GTS	\$569	June	e. 26 2019	J	une. 25 2020	
7	RF Switch Box	Shongyi	R	FSW3003328	GTS	6571	June	e. 26 2019	J	une. 25 2020	
8	EMI Test Receiver	R&S	ESCI 7		GTS	\$552	June	e. 26 2019	J	une. 25 2020	
9	Programmable Constant Temp & Humi Test	WEWON	wн	TH-150L-40-880	GTS	\$572	June	e. 26 2019	J	une. 25 2020	

Ger	General used equipment:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 26 2019	June. 25 2020
2	Barometer	ChangChun	DYM3	GTS255	June. 26 2019	June. 25 2020



7 Test results and Measurement Data

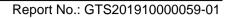
7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)			
FCC Part 15.203 requireme	FCC Part 15.203 requirement:			
responsible party shall be us antenna that uses a unique of so that a broken antenna car	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) requiremen	t:			
operations may employ trans maximum conducted output	(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.			
RSS-Gen 6.8	RSS-Gen 6.8			
the transmitter, where applic maximum permissible anten report shall demonstrate the isotropically radiated power	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.			
of each combination of trans maximum level. However, th operational conditions and w	easurements may be performed using only the antenna with highest gain mitter and antenna type, with the transmitter output power set at the e transmitter shall comply with the applicable requirements under all then in combination with any type of antenna from the list provided in the to be included in the user manual, provided below).			
EUT Antenna:				
The antenna is PCB antenna, th details.	he best case gain of the antenna is 7.28dBi, Reference to the appendix II for			



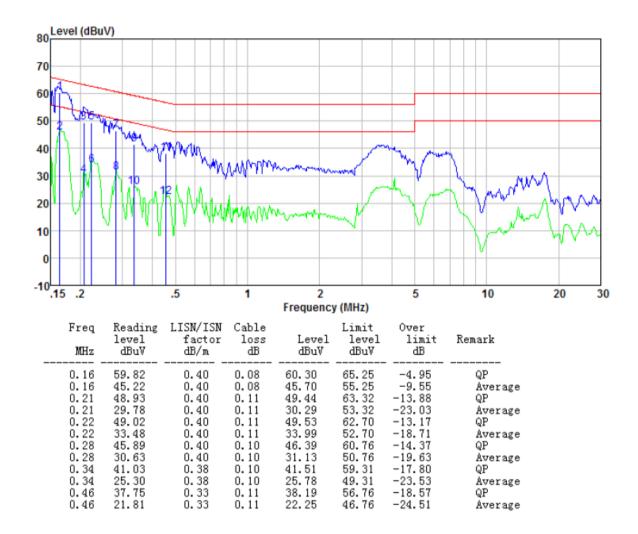
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207			
	RSS-Gen Section 8.8			
Test Method:	ANSI C63.10:2013 and RSS-Gen			
Test Frequency Range:	150KHz to 30MHz			
Receiver setup:	RBW=9KHz, VBW=30KHz, S	Sweep time=auto		
Limit:		Lim	it (dBuV)	
	Frequency range (MHz)	Quasi-peak	Ave	erage
	0.15-0.5	66 to 56*		to 46*
	0.5-5	56		46
	5-30 * Decreases with the logarith	60		50
Test setup:	-			
Test procedure:	 Reference Plane IsN <i>AUX</i> <i>Equipment</i> <i>E.U.T</i> <i>Equipment</i> <i>E.U.T</i> <i>Equipment</i> <i>E.U.T</i> <i>Equipment</i> <i>E.U.T</i> <i>Equipment</i> <i>E.U.T</i> <i>Equipment</i> <i>E.U.T</i> <i>Equipment</i> <i>Ine E.U.T</i> <i>Ine impedence</i> <i>Stabilization</i> <i>Network</i> <i>The E.U.T</i> and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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. 			
				lative be changed
Test Instruments:	Refer to section 6.0 for detail	S		
Test mode:	Refer to section 5.2 for detail	s		
Test environment:	Temp.: 25 °C Hu	mid.: 52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz			
Test results:	Pass			



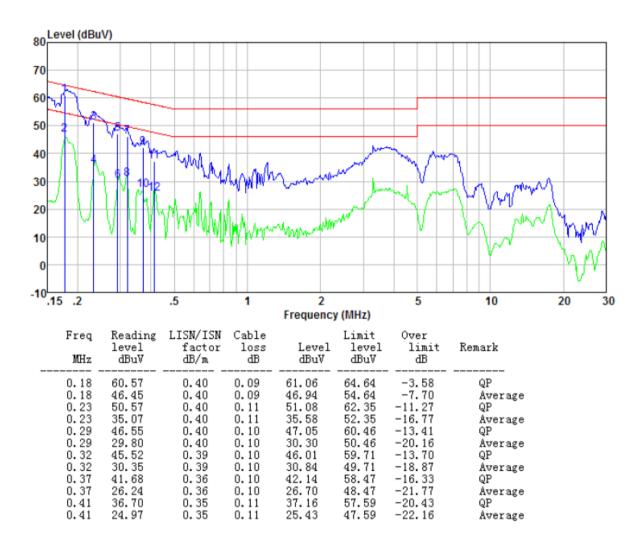
Measurement data Line:

GTS





Neutral:



Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
	RSS-247 Clause 5.4(d)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05or02		
Limit:	28.72dBm		
Test setup:	28.72dBm		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

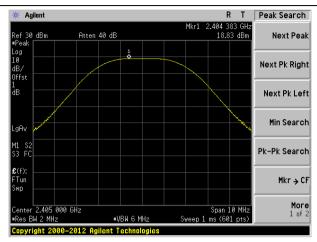
7.3 Conducted Peak Output Power

Measurement Data

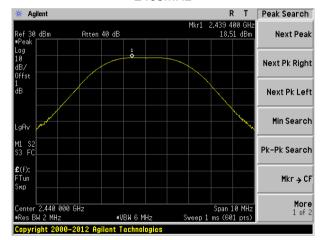
Frequency (MHz)	Peak Output Power (dBm)	Limit(dBm)	Result
2405	18.83		
2440	18.51	28.72	PASS
2480	18.23		



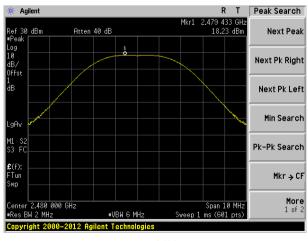
Test plot as follows:







2440MHz



2480MHz



7.4 Channel Bandwidth & 99% Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2) RSS-247 Clause 5.2(a)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05or02		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

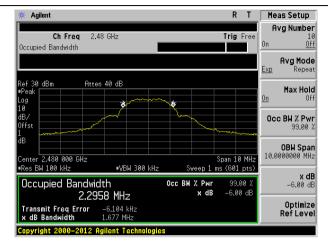
Measurement Data

Frequency (MHz)	Channel Bandwidth (MHz)	Limit(KHz)	Result
2405	1.677		
2440	1.677	>500	Pass
2480	1.672		

Frequency (MHz)	99% Occupy Bandwidth (MHz)	Result
2405	2.2958	
2445	2.2733	Pass
2480	2.2869	



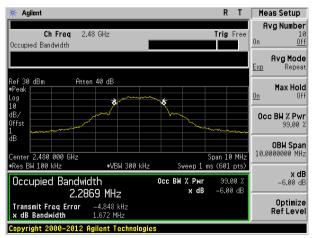
Test plot as follows:



2405MHz

* Agilent R T	Meas Setup
Ch Freq 2.44 GHz Trig Free Occupied Bandwidth	Avg Number 10 On <u>Off</u>
	Avg Mode Exp Repeat
Ref 30 dBm Atten 40 dB #Peak Log 10	Max Hold On Off
dB/ Offst	Occ BW % Pwr 99.00 %
dB	OBW Span 10.0000000 MHz
•Res BM 100 kHz •VBM 300 kHz Sweep 1 ms (601 pts) Occupied Bandwidth осс ВН % Риг 99.00 % 2.2733 MHz × dB -6.00 dB	x dB -6.00 dB
Transmit Freq Error –5.174 kHz x dB Bandwidth 1.677 MHz	Optimize Ref Level

2440MHz



2480MHz



7.5 Power Spectral Density

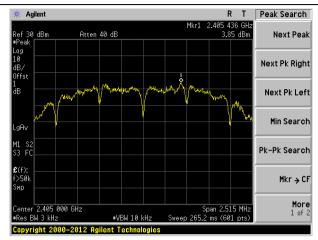
Test Requirement:	FCC Part15 C Section 15.247 (e)		
	RSS-247 Clause 5.2(b)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05or02		
Limit:	8dBm/3kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

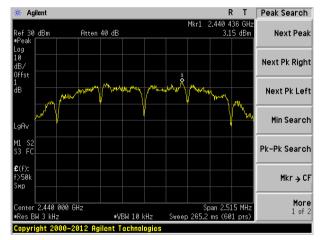
Frequency (MHz)	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result
2405	3.85		
2440	3.15	8.00	Pass
2480	2.51		



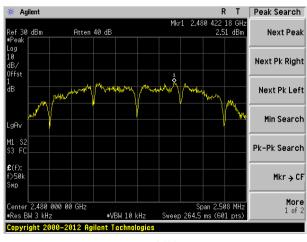
Test plot as follows:







2440MHz



2480MHz



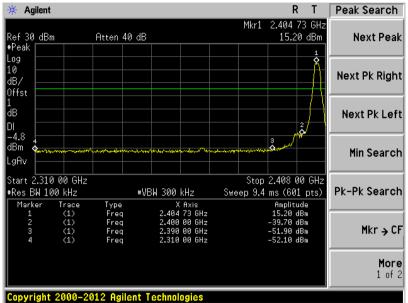
7.6 Band edges

7.6.1 Conducted Emission Method

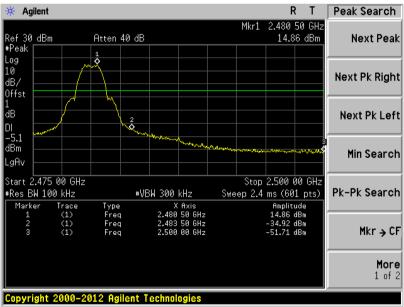
Test Requirement:	FCC Part15 C Section 15.247 (d)		
	RSS-247 Clause 5.5 & RSS-Gen 8.9		
To at Matha di			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05or02		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		



Test plot as follows:



Lowest channel



Highest channel



RSS-Gen Clause 8.988.10 Test Frequency Range: ANSI CG3.10:2013 and RSS-Gen All of the restrict bands were tested, only the worst band's (2310MHz) to 2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Above 1GHz RMS 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 74.00 Peak Test setup: Image: the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The extended the ensure of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case of the measurement. 6. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned from 0 degrees to 360 degrees to ind the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode	Test Requirement:	Test Requirement: FCC Part15 C Section 15.209 and 15.205							
Test Method: ANSI C63.10:2013 and RSS-Gen Test Frequency Range: All of the restrict bands were tested, only the worst band's (2310MHz) to 2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Above 1GHz Peak 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 74.00 Peak Test setup: Image: test of the ground at a 3 meter cambuffeer Peak Test Procedure: 1 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter cambuffeer. Test Procedure: 1 The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3 Test Procedure: 4 For each suspected emission, the EUT was arranged to its worst case and then the antenna was functed from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna vas tuned from 0 degrees to 360 degrees to find the maximum reading. The enterna height is varied from one meter to four meters above the ground to tetrine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measure	rest Requirement.								
Test Frequency Range: All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Above 1GHz RMS 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Test setup: Frequency Limit (dBuV/m @3m) Value Test setup: Frequency Limit (dBuV/m @3m) Value Test setup: Frequency Limit (dBuV/m @3m) Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interferce-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and the nota table was stude to heights from 1 meter to 4 meters and the nota table was stude to heights from 1 meter to 4 meters and the nota table was studed height stow 1 meter to 4 meters and the nota table was storeed	Test Method:								
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Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Above 1GHz Peak 1MHz 3MHz Peak Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 54.00 Average Above 1GHz 74.00 Peak Test setup: Image: test setup: Receiver_remember Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and verical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tured to heights from 1 meter to 4 meters and the nota table was funced Mode. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified then testing could be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one	rest requency range.								
Receiver setup: Frequency Detector RBW VBW Value Above 1GHz RMS 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 54.00 Average Test setup: Image: Setup: Receiver Peak Image: Setup: Image: Setup: Receiver Peak Test setup: Receiver Receiver Peak Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was placed on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the nota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stoppet and the peak values of the EUT would be reported. O	Test site:								
Above 1GHz Peak MMS 1MHz 3MHz Average Average Limit: Frequency Limit (BuV/m @3m) Value Above 1GHz 54.00 Average Above 1GHz 54.00 Average Test setup: Image: State S									
Above 1GH2 RMS 1MHz 3MHz Average Limit: Frequency Limit (dBUV/m @3m) Value Above 1GHz 74.00 Peak Test setup: Image: Test setup: Image: Test setup: Test setup: Image: Test setup: Image: Test setup: Recover: Preamptifier Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tured to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be recorded on by one using peak, quasi-peak or average method as specified and then reported in a data sheter. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 54.00 Average Test setup: Image: Test setup: Image: Test setup: Image: Test setup: Image: Test setup: Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the attable was tured from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worst case, only the test worst case mode is recorded in the report.									
Above 1GHz 54.00 74.00 Average Peak Test setup: Image: Construction of the state of the st	Limit:	Frequen							
Above 1GHz 74.00 Peak Test setup: Image: State			-						
Test setup: Image: Size Size Size Size Size Size Size Size		Above 1G	Hz						
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and then tota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.	Test setup:			Test Antenna	*				
 the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. 	Test Procedure:	<150cm >							
		 the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. 							
	Test Instruments:								

7.6.2 Radiated Emission Method

Global United Technology Services Co., Ltd. No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



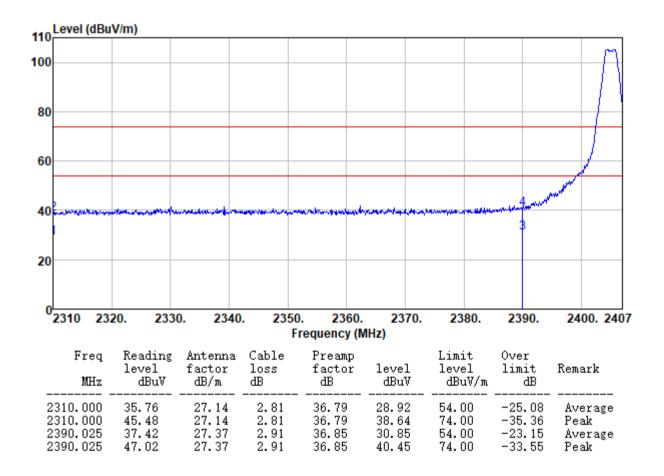
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

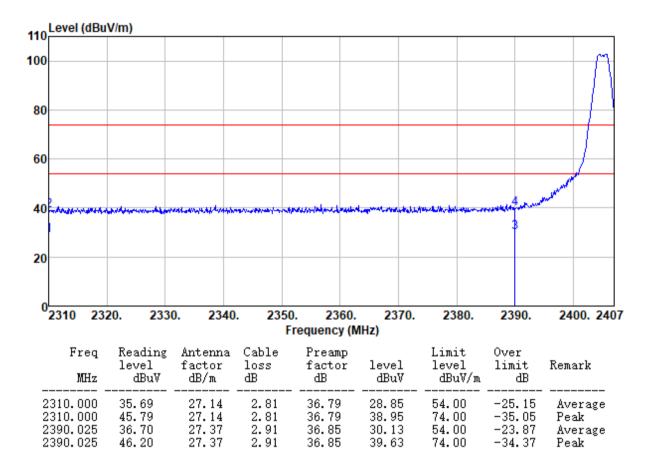
Test channel: 2405MHz

Horizontal:

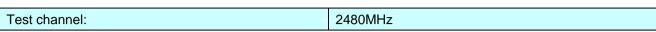




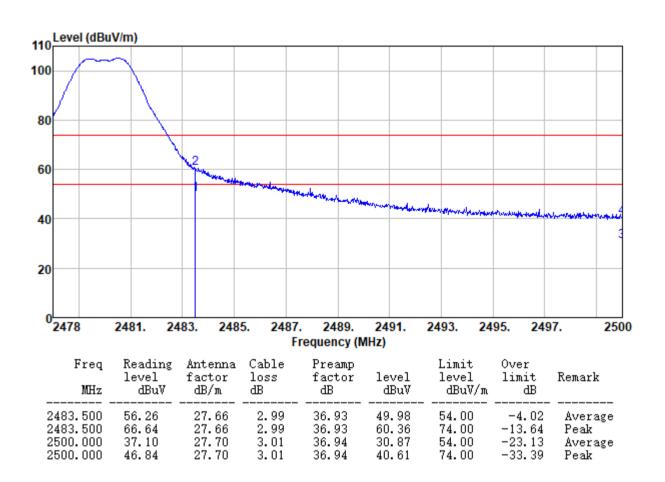
Vertical:





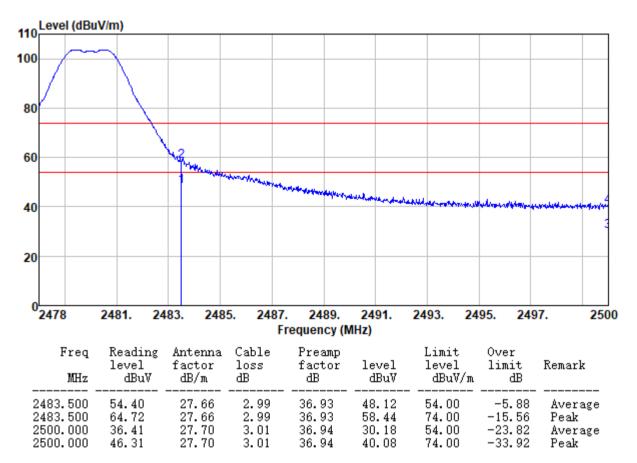


Horizontal:





Vertical:



Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.7 Spurious Emission

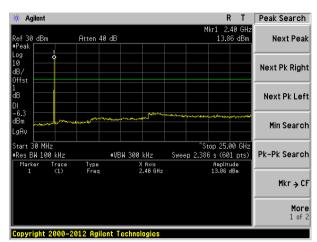
7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
	RSS-247 Clause 5.5					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05or02					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



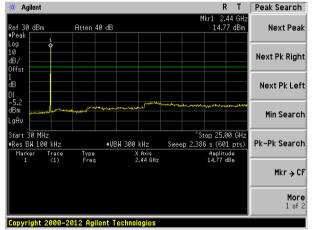
Test plot as follows:

Lowest channel



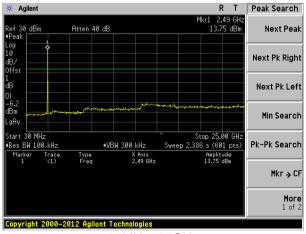
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel



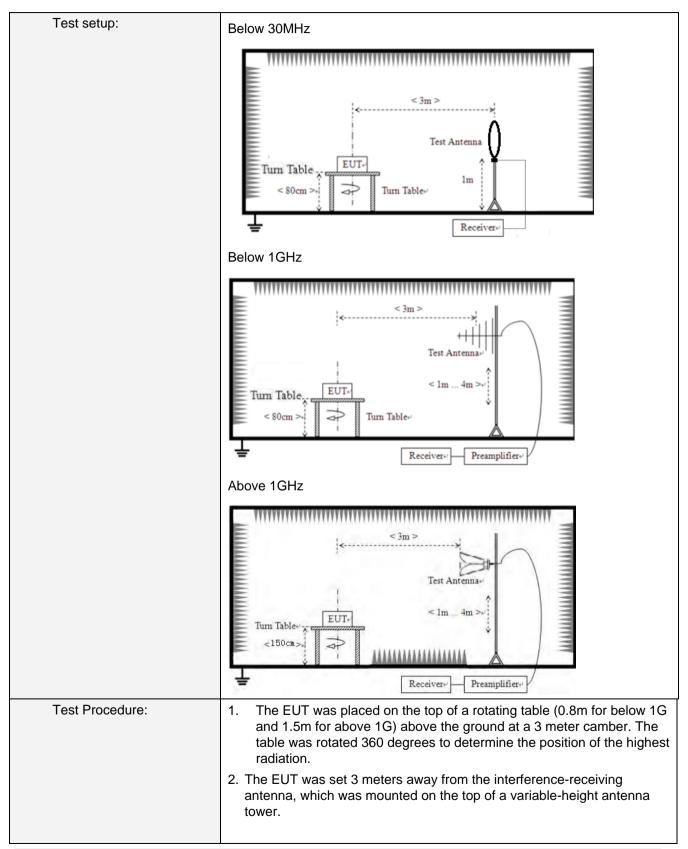




Test Requirement:	FCC Part15 C Section 15.209							
	RSS-Gen Clause 8.9&8.10							
Test Method:	ANSI C63.10:2013 and RSS-Gen							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distance: 3m							
Receiver setup:	Frequency	Frequency Detector RI		RB	BW VBW		Value	
	9KHz-150KHz	Qu	uasi-peak	si-peak 200		600Hz	z Quasi-peak	
	150KHz-30MHz	Qı	uasi-peak	9Kł	Ηz	30KH2	z Quasi-peak	
	30MHz-1GHz	Qı	uasi-peak	100k	(Hz	300KH	z Quasi-peak	
			Peak 1		Hz 3MHz		z Peak	
	Above 1GHz		Peak 1M		Ηz	10Hz	Average	
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		V	/alue	Measurement Distance	
	0.009MHz-0.490MHz		2400/F(ł	≺Hz)		QP	300m	
	0.490MHz-1.705M	lHz	24000/F(4000/F(KHz)		QP	300m	
	1.705MHz-30MH	lz	30		QP		30m	
	30MHz-88MHz		100		QP			
	88MHz-216MHz	Z	150		QP			
	216MHz-960MH	216MHz-960MHz 200			QP		3m	
	960MHz-1GHz		500		QP		511	
	Above 1GHz		500		Average			
			5000		Peak			
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.							

7.7.2 Radiated Emission Method





Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



	3. The antenna height is varied from one meter to four meters abore ground to determine the maximum value of the field strength. B horizontal and vertical polarizations of the antenna are set to m measurement.						
	 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data:

Below 30MHz

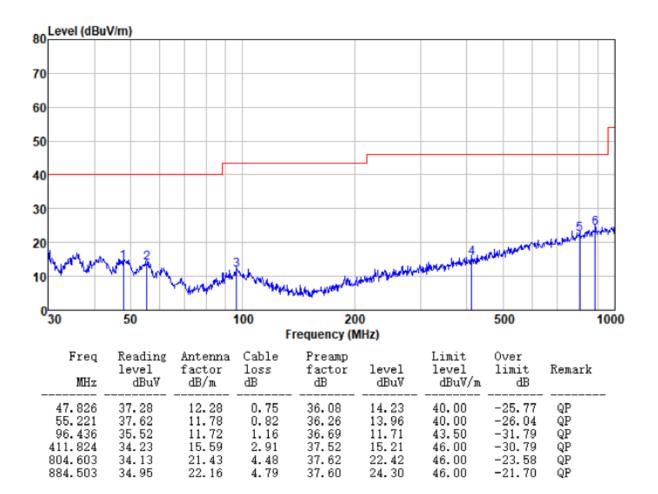
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

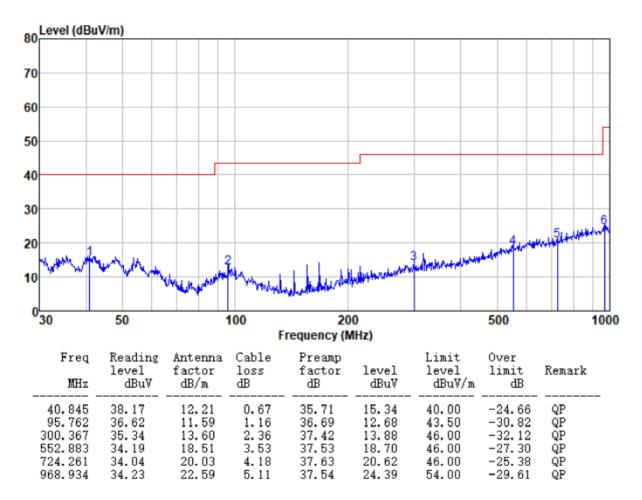


Below 1GHz Horizontal:

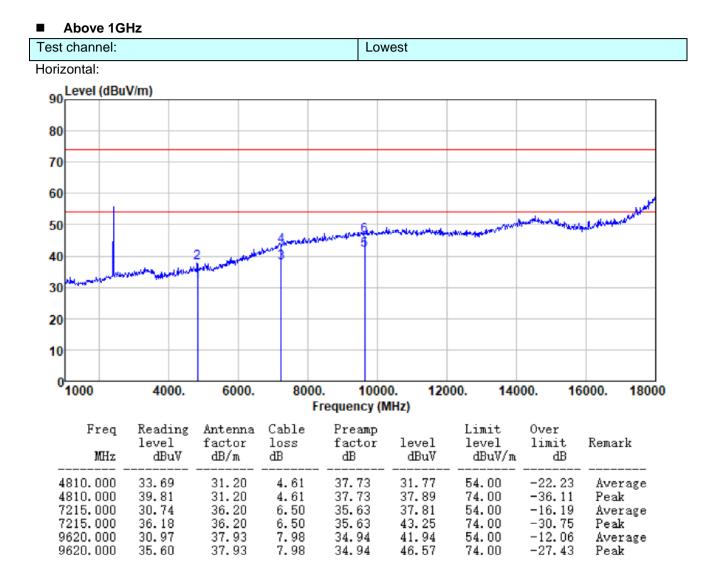




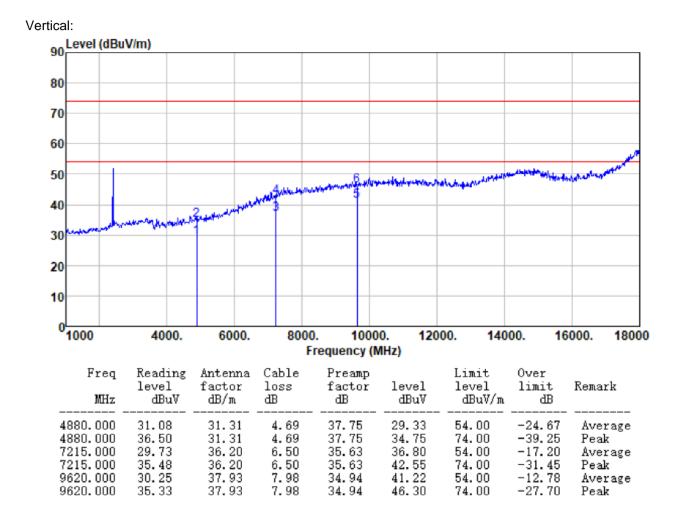
Vertical:







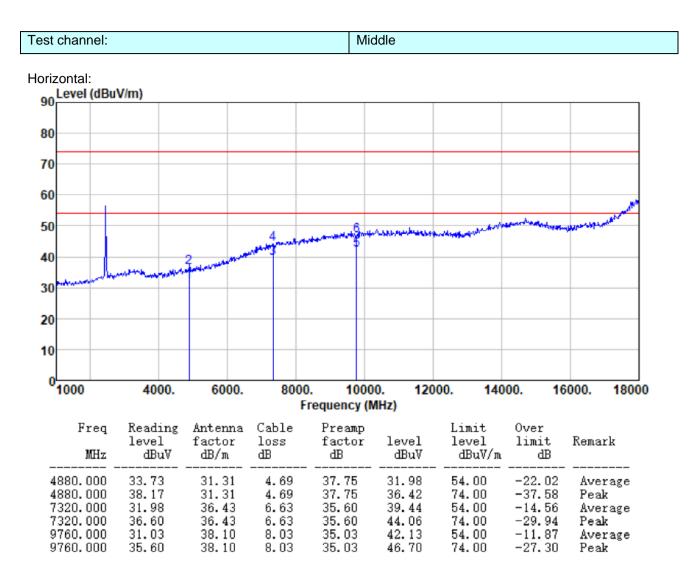




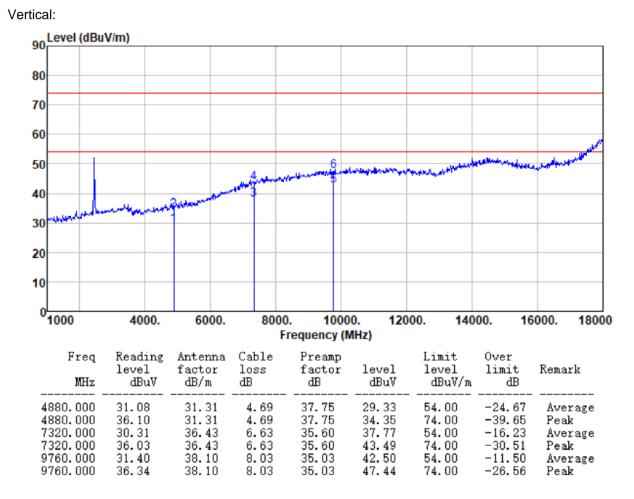
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. No emission found in frequency above 18GHz.







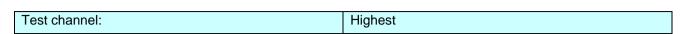


Remark:

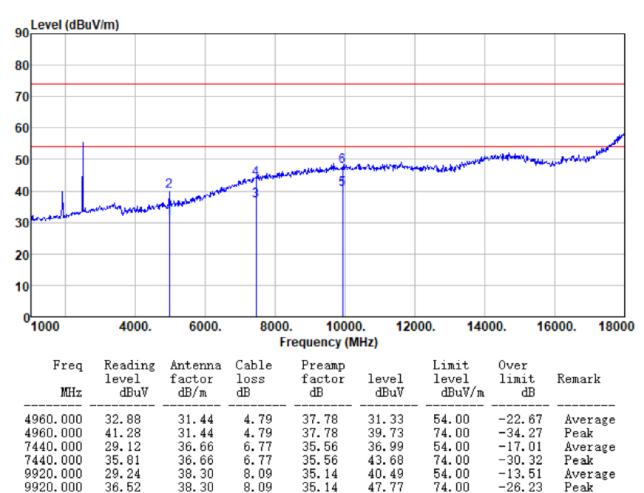
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

2. No emission found in frequency above 18GHz.



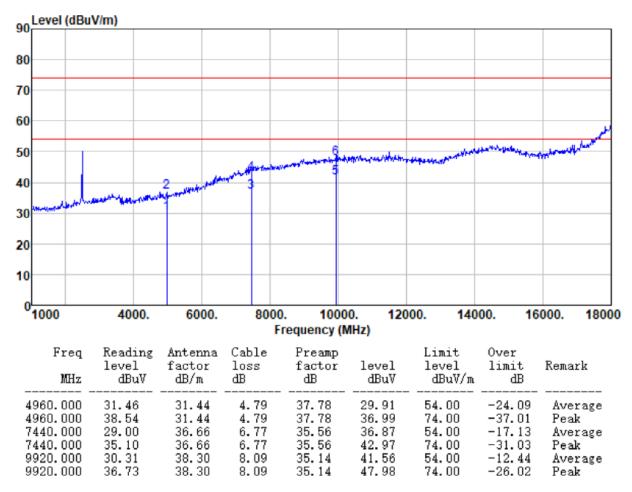


Horizontal:





Vertical::



Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2. No emission found in frequency above 18GHz.



7.8 Frequency stability

Test Requirement:	RSS-Gen Section 6.11& Section 8.11						
Test Method:	ANSI C63.10: 2013 & RSS-Gen						
Limit:	Manufactures of devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified						
Test Procedure:	The EUT was setup to ANSI C63.10, 2013; tested to 2.1055 for compliance to RSS-Gen requirements.						
Test setup:	Spectrum analyzer EUT Att. EUT Variable Power Supply Note : Measurement setup for testing on Antenna connector						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

Remark: Set the EUT transmits at un-modulation mode to test frequency stability.



Measurement data:

Frequency stability versus Temp.									
Power Supply: DC 3V									
	Operating	0 minute	2 minute	5 minute	10 minute				
Temp.	Operating Frequency	Measured	Measured	Measured	Measured	Pass			
(°C)	(MHz)	Frequency	Frequency	Frequency	Frequency	/Fail			
	(1011 12)	(MHz)	(MHz)	(MHz)	(MHz)				
	2405	2405.6	2405.6	2405.3	2405.3	Pass			
-30	2440	2440.7	2440.7	2440.1	2440.5	Pass			
	2480	2480.9	2480.4	2480.2	2480.2	Pass			
	2405	2405	2405.6	2405.1	2405.3	Pass			
20	2440	2440.3	2440.9	2440.4	2440.5	Pass			
	2480	2480.8	2480.3	2480.5	2481	Pass			
	2405	2405.9	2405.2	2405.6	2405.7	Pass			
50	2440	2440.8	2440.1	2440.7	2440	Pass			
	2480	2480.4	2480.4	2480	2480.8	Pass			
		Frequency	y stability versu	us Voltage					
		Τe	emperature: 20	°C					
Power	Operating	0 minute	2 minute	5 minute	10 minute				
	ply Frequency	Measured	Measured	Measured	Measured	Pass			
Supply (Vdc)		Frequency	Frequency	Frequency	Frequency	/Fail			
(Vuc)		(MHz)	(MHz)	(MHz)	(MHz)				
	2405	2405.3	2405.7	2405.5	2405.7	Pass			
2.7	2440	2440.7	2440.6	2441	2440.7	Pass			
	2480	2480.8	2480.3	2480.3	2480.5	Pass			
	2405	2405.3	2405.8	2406	2405.1	Pass			
3.3	2440	2440.1	2440.2	2440.1	2440.7	Pass			
	2480	2480.8	2480.5	2480.2	2480.9	Pass			



8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----