

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200401308V02

FCC & IC REPORT

Applicant: COPPERNIC

Address of Applicant: 185 avenue Archimede, 13857 Aix en Provence, FRANCE

Equipment Under Test (EUT)

Product Name: C-One² HF ASK

Model No.: C-One HF ASK

Trade mark: COPPERNIC

FCC ID: XGK-C-ONE-HF-ASK Canada IC: 8402A-CONEHFASK

FCC CFR Title 47 Part 15 Subpart E Section 15.407

Applicable standards: RSS-Gen Issue 5, March 2019 Amendment 1

RSS-247 Issue 2, February 2017

Date of sample receipt: 11 Nov., 2019

Date of Test: 12 Nov., 2019 to 10 Mar., 2020

Date of report issued: 16 Jun., 2020

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	26 May, 2020	Original
01	12 Jun., 2020	Update page 4
02	16 Jun., 2020	Update Model No

Tested by:	Carey Chen	Date:	16 Jun., 2020
	Test Engineer		
Reviewed by:	Winner thang	Date:	16 Jun., 2020
_	Project Engineer		



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4 Test Summary

Tool Hom	Sec	Test	
Test Item	FCC	IC	Result
Antenna Requirement	15.203 & 15.407 (a)	1	Pass
AC Power Line Conducted Emission	15.207	RSS-GEN Section 8.8	Pass*
Conducted Peak Output Power	15.407 (a) (1) (iv) & (a) (3)	RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.4.1	Pass*
26dB Occupied Bandwidth 99% Occupied Bandwidth	15.407 (a) (5)	RSS-247 Section 6.2.1.2	Pass*
6dB Emission Bandwidth	15.407(e)	RSS-247 Section 6.2.4.1	Pass*
Power Spectral Density	15.407 (a) (1) (iv) & (a) (3)	RSS-247 Section 6.2.1.1 RSS-247 Section 6.2.4.1	Pass*
Band Edge	15.407(b)	RSS-GEN Section 8.10 RSS-247 Section 6.2.1.2 RSS-247 Section 6.2.4.2	Pass*
Spurious Emission	15.407 (b) & 15.205 & 15.209	RSS-GEN Section 6.13 RSS-247 Section 6.2.1.2 RSS-247 Section 6.2.4.2	Pass*
Frequency Stability	15.407(g)	RSS-GEN Section 6.11	Pass*

Remark:

- 1. Pass*: please refer to FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR.
- 2. Pass*: Product FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR and another product FCC ID: XGK-C-ONE-HF-ASK, Canada IC: 8402A-CONEHFASK; Their internal structure, circuit design, layout, components and internal wiring are the same; GSM, WCDMA, LTE and BT, WiFi circuit design and antenna are also the same. The only difference is that the RFID module is different.
- 3. N/A: Not Applicable.
- 4. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:

ANSI C63.4-2014 ANSI C63.10-2013 RSS-Gen Issue 5

KDB 789033 D02 General UNII Test Procedures New Rules v02r01



5 General Information

5.1 Client Information

Applicant:	COPPERNIC
Address:	185 avenue Archimede, 13857 Aix en Provence, FRANCE
Manufacturer:	ASKEY COMPUTER Corp.
Address:	10 F, N°119, JIANKANG RD., ZHONGHE DIST., New Tapei City, TAIWAN

5.2 General Description of E.U.T.

CIZ Conoral Becomption	
Product Name:	C-One ² HF ASK
Model No.:	C-One HF ASK
Operation Frequency:	Band 1: 5150MHz-5250MHz,Band 4: 5725MHz-5825MHz
Channel numbers:	Band 1: 802.11a/802.11n20: 4, 802.11n40: 2, 802.11ac: 1
	Band 4: 802.11a/802.11n20: 5, 802.11n40: 2, 802.11ac: 1
Channel separation:	802.11a/802.11n20: 20MHz, 802.11n40: 40MHz, 802.11ac: 80MHz
Modulation technology	BPSK, QPSK, 16-QAM, 64-QAM
(IEEE 802.11a):	
Modulation technology	BPSK, QPSK, 16-QAM, 64-QAM
(IEEE 802.11n):	
Modulation technology	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
(IEEE 802.11ac):	
Data speed (IEEE 802.11a):	6Mbps, 9Mbps,12Mbps,18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed	MCS0: 6.5Mbps, MCS1:13Mbps,MCS2:19.5Mbps, MCS3:26Mbps,
(IEEE 802.11n20):	MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps
Data speed	MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps,
(IEEE 802.11n40):	MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps
Data speed (IEEE 802.11ac):	Up to 433.3Mbps
Antenna Type:	Internal Antenna
Antenna gain:	3.59 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-3300mAh
AC adapter:	Model: SYS1561-1105-1
	Input: AC100-240V, 50/60Hz, 1A
	Output: DC 5.35V, 2A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.





Operation Frequency each of channel							
	Band 1						
802.11a/802.	.11n/ac(HT20)	802.11n/ac(HT40)		802.11ac(HT80)			
Channel	Frequency	Channel	Frequency	Channel	Frequency		
36	5180MHz	38	5190MHz	42	5210MHz		
40	5200MHz	46	5230MHz				
44	5220MHz						
48	5240MHz						
		В	and 4				
802.11a/802.	.11n/ac(HT20)	802.11n/ac(HT40)		802.11ac(HT80)			
Channel	Frequency	Channel	Frequency	Channel	Frequency		
149	5745MHz	151	5755MHz	155	5775MHz		
153	5765MHz	159	5795MHz				
157	5785MHz						
161	5805MHz						
165	5825MHz						

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:

Band 1						
802.11a/802.11n/ac(HT20)		802.11n/ac(HT40)		802.11ac(HT80)		
Channel	Frequency	Channel	Frequency	Channel	Frequency	
Lowest	5180MHz	Lowest	5190MHz	Middle	5210MHz	
Middle	5200MHz	Highest	5230MHz			
Highest	5240MHz					
		E	Band 4			
802.11a/8	02.11n/ac(HT20)	802.11n/ac(HT40)		802.11ac(HT80)		
Channel	Frequency	Channel	Frequency	Channel	Frequency	
Lowest	5745MHz	Lowest	5755MHz	Middle	5775MHz	
Middle	5785MHz	Highest	5795MHz			
Highest	5825MHz					



5.3 Test environment and test mode

Operating Environment:					
Temperature:	24.0 °C	24.0 °C			
Humidity:	54 % RH	54 % RH			
Atmospheric Pressure:	1010 mbar				
Test mode:					
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.				
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, an	d found the follow lis	st were the worst case.			
Mode		Data rate			
802.11a		6 Mbps			
802.11n20		6.5 Mbps			
802.11n40		13.5 Mbps			
802.11ac		29.3 Mbps			

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.





5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



5.10 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2018	11-17-2019
5141 T O	ALIDIN	F0	,	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3		ersion: 6.110919b	1
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2018	11-17-2019
Opcollain analyzer	Tronde a conwaiz	1 01 40	100000	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Consistence Amaluman	A critic at	N9020A	MY50510123	11-18-2018	11-17-2019
Spectrum Analyzer	Agilent	N9020A	W1150510123	11-18-2019	11-17-2020
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-18-2019	03-17-2020
Signal Generator	R&S	SMR20	1008100050	03-18-2019	03-17-2020
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2019	09-24-2020
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2019	10-31-2020
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2019	07-21-2020

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement: FCC Part15 E Section 15.203 /407(a)

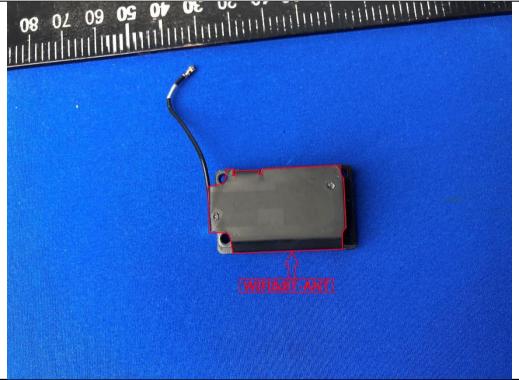
15.203 requirement:

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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

E.U.T Antenna:

The Wi-Fi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 3.59 dBi.





6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207 RSS-GEN Section 8.8			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Limit (dRu\/)			
	Frequency range (MHz) Quasi-peak			
	0.15-0.5	66 to 56*	0.15-0.5	
	0.5-5	56	0.5-5	
	5-30	60	5-30	
	* Decreases with the logarit			
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It 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(latest version) on conducted measurement. 			
Test setup:	Reference Plane			
	AUX Equipment Test table/Insulation plan Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	EMI Receiver	— AC power	
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.3 for details.			
Test results:	Refer to FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR.			



6.3 Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (3) RSS-247 Section 6.2.1.1, RSS-247 Section 6.2.4.1		
Limit:	Band 1: 24dBm Band 4: 30dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Refer to FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR.		



6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (5) and Section 15.407 (e) RSS-247 Section 6.2.1.2, RSS-247 Section 6.2.4.1		
Limit:	Band 1/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz (6dB Bandwidth)		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Refer to FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR.		



6.5 Power Spectral Density

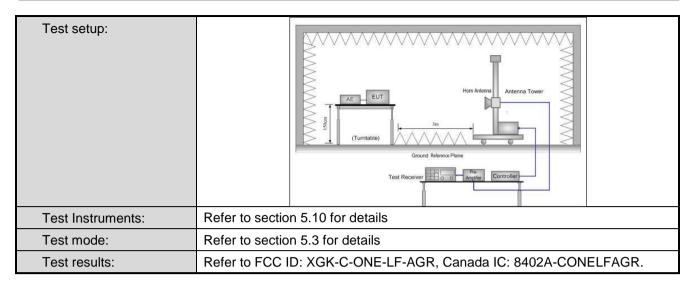
Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(3) RSS-247 Section 6.2.1.1. RSS-247 Section 6.2.4.1		
Limit:	FCC: Band 1: 11 dBm/MHz	IC: Band 1: 10 dBm/MHz	
Test setup:	Band 1: 11 dBm/MHz Band 4: 30 dBm/500kHz Spectrum Analyzer Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Refer to FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR.		



6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 15.407 (b) RSS-GEN Section 8.10, RSS-247 Section 6.2.1.2, RSS-247 Section 6.2.4.2				
Possiver setup:	Detector	RBW	VBW Remark		
Receiver setup:	Quasi-peak	120kHz	300kHz	Quasi-peak Value	
	RMS	1MHz	3MHz	Average Value	
I incit.	Band	Limit (dBuV/n			
Limit:		68.20		Peak Value	
	Band 1/2/3	54.00		Average Value	
		78.20		Peak Value	
	Band 4	54.00		Average Value	
	All emissions shall be above or below the ba above or below the ba edge increasing linearly the band edge, and from linearly to a level of 27 of the band 1 limit: E[dBµV/m] = EIRP[dE E[ing in the 5.725-5.85 GHz band: limited to a level of -27 dBm/MHz at 75 MHz or more and edge increasinglinearly to 10 dBm/MHz at 25 MHz and edge, and from 25 MHz above or below the band y to a level of 15.6 dBm/MHz at 5 MHz above or below rom 5 MHz above or below the band edge increasing dBm/MHz at the band edge. Bm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm. Bm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=10dBm. Bm] + 95.2=110.8 dBuV/m, for EIPR[dBm]=15.6dBm.			
Test Procedure:	 E[dBµV/m] = EIRP[dBm] + 95.2=122.2 dBuV/m, for EIPR[dBm]=27dBm. The EUT was placed on the top of a rotating table 0.8 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. 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 rotatable 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. 				







6.7 Spurious Emission

6.7.1 Restricted Band

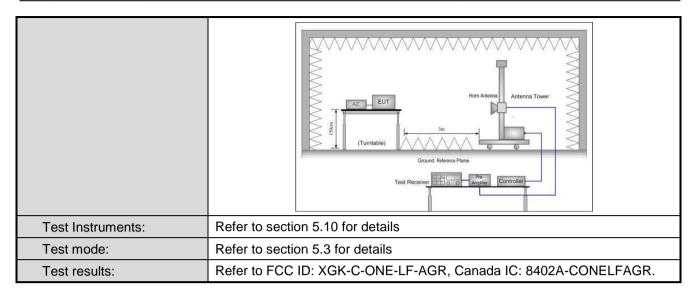
Test Requirement:	FCC Part15 E Section 15.407(b)					
	RSS-GEN Section 6.13, RSS-247 Section 6.2.1.2, RSS-247 Section 6.2.4.2					
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector			3W	Remark
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz		Peak Value Average Value
Limit:	Frequency		it (dBuV/m @3		IΠZ	Remark
Cirriit.	74.00 Peak \/ali			Peak Value		
	Above 1GHz		54.00			verage Value
Test Procedure:	 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. 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 					
Test setup:		(Turntable)	Horn Arten 3m Ground Reference Plane Receiver	Antenro	na Tower	
Test Instruments:	Refer to section 5.10 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed(Refer to section 6.8)					
	i					



6.7.2 Unwanted Emissions out of the Restricted Bands

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
	RSS-GEN Section 6.13, RSS-247 Section 6.2.1.2, RSS-247 Section 6.2.4.2						
Test Frequency Range:	30MHz to 40GHz						
Test site:	Measurement Distance: 3m						
Receiver setup:	Frequency	Detector	RBW	VB	W	Remark	
	30MHz-1GHz	Quasi-peak	100kHz	300k	кНz	Quasi-peak Value	
	Above 1CHz	Peak	1MHz	3MI	BMHz Peak Value		
	Above 1GHz	RMS	1MHz	3MI	Hz	Average Value	
Limit:	Frequency	Lir	mit (dBuV/m @3	3m)	Remark		
	30MHz-88MH	lz	40.0		Q	Quasi-peak Value	
	88MHz-216MI	-lz	43.5			uasi-peak Value	
	216MHz-960M		46.0		Quasi-peak Value		
	960MHz-1GH	z	54.0		Q	uasi-peak Value	
	Above 1GHz	,	68.20			Peak Value	
		<u> </u>	54.00			Average Value	
	Remark:						
	Above 1GHz limit:	/D1 - 05 0 00 /	0 -10 -1// f 5		1 07	/-ID	
T 15	E[dBµV/m] = EIRP[a	placed on the					
Test Procedure:						ter camber. The	
						n of the highest	
	radiation.	mod ooo dog.o	oo to dotoriiii	io ino p	Ooitioi	Tor the riighteet	
		set 3 meters a	way from the	interfer	ence-	receiving	
	tower.	antenna, which was mounted on the top of a variable-height antenna tower.					
						eters above the	
	ground to determine the maximum value of the field strength. Both						
		•	zations of the	antenna	a 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 rea		iii o degrees t	0 300 u	legiee	3 to find the	
			s set to Peak	Detect I	Functi	ion and Specified	
		th Maximum H					
	6. If the emission	n level of the E	UT in peak mo	ode was	s 10dl	B lower than the	
						eak values of the	
						lid 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 setup:	Below 1GHz						
		<u> </u>		/	Antenna To	ower	
	3m < Search						
	EUTAntenna						
	4m RF Test						
	Receiver —						
	Tum o sen lm						
	Table 0.8m 1m						
	Ground Plane ———						
	Above 1GHz						









6.8 Frequency stability

6.6 Frequency Stab	,		
Test Requirement:	FCC Part15 E Section 15.407 (g)		
	RSS-GEN Section 6.11		
Limit:	Manufacturers of U-NII 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 in the user's manual.		
Test setup:	Temperature Chamber		
	Spectrum analyzer EUT Att.		
	Variable Power Supply		
	Note: Measurement setup for testing on Antenna connector		
Test procedure:	 The EUT is installed in an environment test chamber with external power source. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. A sufficient stabilization period at each temperature is used prior to each frequency measurement. When temperature is stabled, measure the frequency stability. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions. 		
Test Instruments:	Refer to section 5.10 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Refer to FCC ID: XGK-C-ONE-LF-AGR, Canada IC: 8402A-CONELFAGR.		