



FCC RADIO TEST REPORT FCC ID: 2AX5VHBHYBNA1

Product: Security control panel

Trade Mark: ハノヘン

Model No.: HHG3.4G.F-000-NA

Family Model: N/A

Report No.: S24091204602002

Issue Date: Oct. 21, 2024

Prepared for

AJAX SYSTEMS CYPRUS HOLDINGS LTD
Yangjiahu District(South Of Xiangxing Avenue), Industrial Park,
Gao'An City, Jlangxi Province, China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

AJAX SYSTEMS CYPRUS HOLDINGS LTD			
Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus			
"AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY			
Sklyarenka, 5, Kyiv, 04073, Ukraine			
"AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY			
Sklyarenka, 5, Kyiv, 04073, Ukraine			
"AJAX TURKEY ELEKTRONİK TİCARET" ANONİM ŞİRKETİ			
Aydınlı Sb Mah. 4.Sk. Desbaş 6 Blok No: 4 lc Kapi No: Z01 Tuzla /			
Security control panel			
VIVX			
HHG3.4G.F-000-NA			
N/A			
S240912046001			
Date of Test Sept. 14, 2024 ~ Oct. 21, 2024			

Measurement Procedure Used:

APPLICABLE STANDARDS				
TEST RESULT				
Complied				

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Prepared .	Gavan Zhang	Reviewed .	Aaron Cheng	Approved .	Alex Li
Ву	Gavan Zhang (Project Engineer)	Ву	Aaron Cheng (Supervisor)	By ·	Alex Li (Manager)

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SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E & ANSI C63.26-2015					
FCC Rule	Test Item	Verdict	Remark		
2.1046	Conducted Output Power	PASS			
24.232 27.50 KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS			
2.1049 22.917 24.238 KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS			
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	Band Edge	PASS			
22.913 KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS			
24.232 27.50 KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS			
2.1053 22.917 24.238 27.53 KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS			
2.1055 22.355 24.235 27.54 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS			
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	Conducted Emission	PASS			

- "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during
- 3. No modifications are made to the EUT during all test items.

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Report No.: S24091204602002

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.26 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration
The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

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.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, 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	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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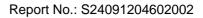


4 GENERAL DESCRIPTION OF EUT

	Product Feature and Specification					
Equipment	Security control panel					
Trade Mark \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
FCC ID	2AX5VHBHYBNA1					
Model No.	HHG3.4G.F-000-NA					
Family Model	N/A					
Model Difference	N/A					
Operating Frequency	☑UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; ☑UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; ☑UMTS-FDD Band IV:TX1710MHz~1755MHz /RX2110MHz~2155MHz					
Modulation	⊠QPSK for UMTS bands;					
Power Class 3, tested with power control "all 1"(WCDMA Band II/IV/V)						
GPRS Class						
Antenna Type Planar Inverted F- Antenna						
Antenna Gain	Band II: -1.5dBi; Band IV: -1.5dBi ; Band V: -1.5dBi					
Adapter	N/A					
Battery	N/A					
Power Rating AC 110-240V, 50/60 Hz, 0.1A						
HW Version HBF.002.MBR.001v4						
FW Version	NA					
SW Version	2.xx					

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 240V and Low Voltage 110V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

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Revision History

Report No.	Version	Description	Issued Date
S24091204602002	Rev.01	Initial issue of report	Oct. 21, 2024

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5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band IV, HSUPA band IV frequency band.

Note: HSDPA band II, HSDPA band V, HSDPA band V, HSDPA band IV, HSDPA band IV, HSDPA band IV modes have been tested during the test. the worst condition be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for UMTS FDD Band V/ UMTS FDD Band $\,\mathrm{IV}$
- 2. 30 MHz to 10th harmonic for UMTS FDD Band II

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

	Test Modes					
Band For Conducted Test Cases For Radiated Test Cases						
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link				

Test Frequency and Channels:

Fraguency	☐ UMTS Band II		⊠UMTS Band V		☑ UMTS Band IV	
Frequency Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	9538	1907.6	4233	846.6	1513	1752.6
CH_M	9400	1880.0	4182	836.4	1413	1732.6
CH_L	9262	1852.4	4132	826.4	1312	1712.4

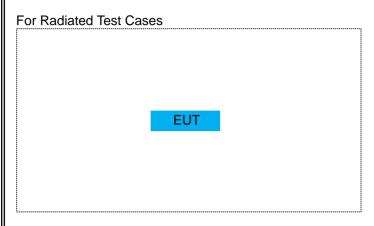
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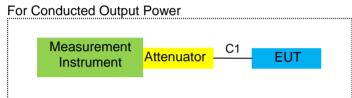




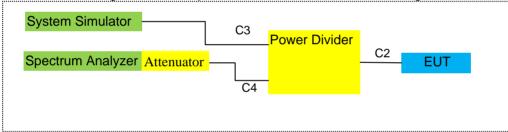
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

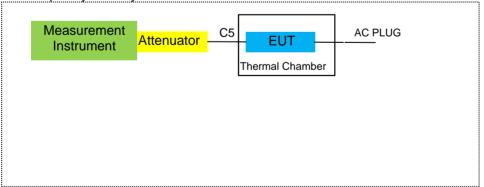








For Frequency Stability



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6.2 SUPPORT EQUIPMENT

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.

Item	Equipment	Model/Type No.	Series No.	Note
EUT	Security control panel	HHG3.4G.F-000-NA	N/A	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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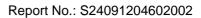


6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

14	Kind of	Manufacture	T N	O - vi - I NI -	Last	0-11	Calibration
Item	Equipment	Manufacturer	Type No.	Serial No.	calibration	Calibrated until	period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
2	Test Receiver	R&S	ESPI	101318	2024.04.26	2025.04.25	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	Broadband Horn Antenna	SCHWARZBEC K	BBHA 9120 D	2816	2024.05.18	2027.05.17	3 year
6	Broadband Horn Antenna	SCHWARZBEC K	BBHA 9120 D	2817	2024.05.12	2027.05.11	3 year
7	Amplifier	EM	EM-30180	060538	2024.04.26	2025.04.25	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2024.03.12	2025.03.11	1 year
9	Power Meter	R&S	NRVS	100696	2024.04.26	2025.04.25	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2024.04.26	2025.04.25	1 year
11	Test Cable	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
12	Test Cable	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year
15	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
16	LISN	EMCO	3816/2	00042990	2024.04.25	2025.04.24	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2024.03.12	2025.03.11	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2024.03.12	2025.03.11	1 year
19	Test Cable	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
20	Test Cable	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
21	Test Cable	N/A	C03	N/A	2023.05.06	2026.05.05	3 year
22	Spectrum Analyzer	agilent	e4440a	us44300399	2024.03.12	2025.03.11	1 year
23	test receiver	R&S	ESCI	a0304218	2024.03.12	2025.03.11	1 year
24	Communication Tester	R&S	CMU200	A0304247	2024.03.12	2025.03.11	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2024.03.12	2025.03.11	1 year
26	DC Power Source	N/A	PS-6005D	20170402923	2024.04.25	2027.04.24	3 year
27	Log-Periodic Antenna	SCHWARZBEC K	VULB 9162	584	2024.04.25	2025.04.24	1 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

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Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8200	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest

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7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

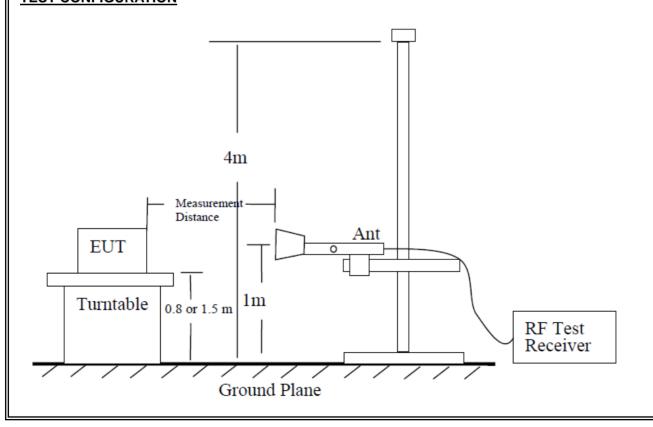
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / V / GPRS 850 / 1900.

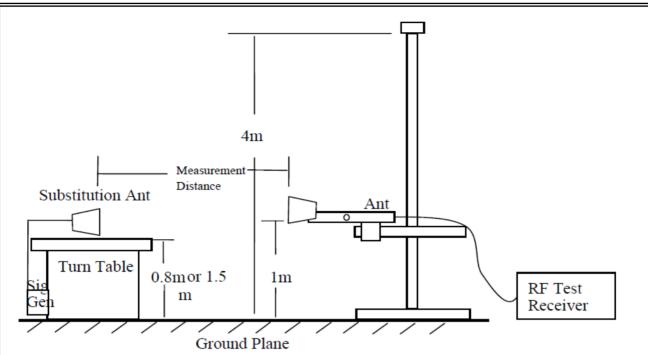
TEST CONFIGURATION



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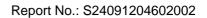




7.1.5 Test Procedure

- 1. EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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7.1.6 Test Results

EUT:	Security control panel	Model No.:	HHG3.4G.F-000-N A
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Gavan Zhang

3G and SRD can be transmitted simultaneously which is the worst data recorded in the report as below ■ Radiated Spurious Emission

			WCDMA	Band V						
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
	Test Results for Channel 4233/846.6MHz									
1693.2	-50.25	2.80	27.50	-25.55	-13	-12.55	Vertical			
1693.2	-50.21	2.80	27.50	-25.51	-13	-12.51	Horizontal			
2539.8	-45.62	2.91	27.80	-20.73	-13	-7.73	Vertical			
2539.8	-49.21	2.91	27.80	-24.32	-13	-11.32	Horizontal			
3386.4	-52.32	4.02	29.87	-26.47	-13	-13.47	Vertical			
3386.4	-50.55	4.02	29.87	-24.70	-13	-11.70	Horizontal			
264.3	-46.11	1.75	15.49	-32.37	-13	-19.37	Vertical			
209.9	-53.05	1.37	16.58	-37.84	-13	-24.84	Horizontal			
		Test Res	ults for Cha	nnel 4182/83	36.4MHz					
1672.8	-51.01	2.80	27.48	-26.33	-13	-13.33	Vertical			
1672.8	-47.86	2.80	27.48	-23.18	-13	-10.18	Horizontal			
2509.2	-44.97	2.91	27.70	-20.18	-13	-7.18	Vertical			
2509.2	-50.82	2.91	27.70	-26.03	-13	-13.03	Horizontal			
3345.6	-46.15	4.02	29.82	-20.35	-13	-7.35	Vertical			
3345.6	-52.66	4.02	29.82	-26.86	-13	-13.86	Horizontal			
255.8	-52.22	1.68	17.84	-36.06	-13	-23.06	Vertical			
129.8	-53.2	1.49	16.34	-38.34	-13	-25.34	Horizontal			
		Test Res	ults for Cha	nnel 4132/82	26.4MHz					
1652.8	-48.55	2.80	27.42	-23.93	-13	-10.93	Vertical			
1652.8	-48.84	2.80	27.42	-24.22	-13	-11.22	Horizontal			
2479.2	-50.13	2.91	27.68	-25.36	-13	-12.36	Vertical			
2479.2	-49.07	2.91	27.68	-24.30	-13	-11.30	Horizontal			
3305.6	-47.26	4.02	29.80	-21.48	-13	-8.48	Vertical			
3305.6	-53.03	4.02	29.80	-27.25	-13	-14.25	Horizontal			
135.6	-44.82	1.36	17.52	-28.66	-13	-15.66	Vertical			
190.6	-49.22	1.63	15.02	-35.83	-13	-22.83	Horizontal			

Remark

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain

3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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			WCDMA	A Band II			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
	-	Test Res	ults for Cha	nnel 9262/18	352.4MHz	-	-
3704.8	-51.04	4.04	33.51	-21.57	-13	-8.57	Vertical
3704.8	-44.19	4.04	33.51	-14.72	-13	-1.72	Horizontal
5557.2	-45.1	5.24	35.84	-14.50	-13	-1.50	Vertical
5557.2	-50.99	5.24	35.84	-20.39	-13	-7.39	Horizontal
18524	-54.08	5.24	41.18	-18.14	-13	-5.14	Vertical
18524	-53.22	5.24	41.18	-17.28	-13	-4.28	Horizontal
91.6	-46.3	1.66	17.47	-30.49	-13	-17.49	Vertical
104.4	-45.35	1.38	16.18	-30.55	-13	-17.55	Horizontal
		Test Re	sults for Cha	annel 9400/1	880MHz		
3760	-47.2	4.04	33.56	-17.68	-13	-4.68	Vertical
3760	-51.79	4.04	33.56	-22.27	-13	-9.27	Horizontal
5640	-50.86	5.24	35.91	-20.19	-13	-7.19	Vertical
5640	-51.56	5.24	35.91	-20.89	-13	-7.89	Horizontal
18800	-53.85	5.24	41.25	-17.84	-13	-4.84	Vertical
18800	-55.51	5.24	41.25	-19.50	-13	-6.50	Horizontal
121.2	-53.8	1.38	16.34	-38.84	-13	-25.84	Vertical
167.8	-52.89	1.34	16.03	-38.20	-13	-25.20	Horizontal
		Test Res	ults for Cha	nnel 9538/19	07.6MHz		
3815.2	-52.76	4.04	34.00	-22.80	-13	-9.80	Vertical
3815.2	-50.85	4.04	34.00	-20.89	-13	-7.89	Horizontal
5722.8	-45.03	5.24	36.04	-14.23	-13	-1.23	Vertical
5722.8	-52.6	5.24	36.04	-21.80	-13	-8.80	Horizontal
19076	-55.15	5.24	41.52	-18.87	-13	-5.87	Vertical
19076	-54.8	5.24	41.52	-18.52	-13	-5.52	Horizontal
135.9	-46.65	1.51	15.52	-32.64	-13	-19.64	Vertical
247.5	-53.61	1.32	17.18	-37.76	-13	-24.76	Horizontal

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)

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			WCDMA	Band IV			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	ults for Char	nnel 1312/17	12.4MHz		
3424.8	-50.25	4.02	29.80	-24.47	-13	-11.47	Vertical
3424.8	-46.84	4.02	29.80	-21.06	-13	-8.06	Horizontal
5137.2	-47.42	5.24	35.84	-16.82	-13	-3.82	Vertical
5137.2	-48.64	5.24	35.84	-18.04	-13	-5.04	Horizontal
81.8	-51.16	1.66	15.00	-37.82	-13	-24.82	Vertical
115.1	-51.44	1.58	16.20	-36.82	-13	-23.82	Horizontal
		Test Res	ults for Char	nnel 1412/17	'32.4MHz		
3464.8	-46.74	4.03	30.00	-20.77	-13	-7.77	Vertical
3464.8	-47.38	4.03	30.00	-21.41	-13	-8.41	Horizontal
5197.2	-47.59	5.25	35.86	-16.98	-13	-3.98	Vertical
5197.2	-51.07	5.25	35.86	-20.46	-13	-7.46	Horizontal
246.8	-49.08	1.55	16.39	-34.23	-13	-21.23	Vertical
101.0	-50.62	1.32	16.25	-35.69	-13	-22.69	Horizontal
		Test Res	ults for Char	nel 1513/17	52.6MHz		
3505.2	-50.47	2.91	27.68	-25.70	-13	-12.70	Vertical
3505.2	-50.71	2.91	27.68	-25.94	-13	-12.94	Horizontal
5257.8	-52.71	5.26	35.86	-22.11	-13	-9.11	Vertical
5257.8	-51.18	5.26	35.86	-20.58	-13	-7.58	Horizontal
199.0	-45.44	1.33	15.78	-30.99	-13	-17.99	Vertical
193.1	-46.33	1.47	17.42	-30.38	-13	-17.38	Horizontal

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements Please refer to the section 7.1.4 in this report.

7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

ose the following spectrum analyzer settings.					
	UMTS band				
Span	10MHz				
RBW	300KHz				
VBW	1MHz				
Detector	RMS				
Trace	Average				
Average Type	Power				
Sweep Count	100				

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7.2.6 Test Results

EUT:	Security control panel	Model No.:	HHG3.4G.F-000-NA
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/UMTS band IV	Test By:	Gavan Zhang

■ Effective Radiated Power

	Radiated Power (ERP) for UMTS band V									
Frequency	requency Polarization		Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
826.4	Н	0.59	2.11	23.84	2.15	20.17	0.103992			
835	Н	1.46	2.13	23.15	2.15	20.33	0.107895			
846.6	Н	1.64	2.13	23.06	2.15	20.42	0.110154			
826.4	V	2.84	2.11	23.11	2.15	21.69	0.147571			
835	V	2.73	2.13	23.07	2.15	21.52	0.141906			
846.6	V	4.32	2.13	23.25	2.15	23.29	0.213304			

	Radiated Power (E.I.R.P) for UMTS band II									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP				
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)				
1852.4	Н	-4.06	3.76	28.24	20.42	0.110154				
1880	Н	-3.33	3.91	28.22	20.98	0.125314				
1907.6	Н	-3.03	3.93	28.20	21.24	0.133045				
1852.4	V	-3.27	3.76	27.32	20.29	0.106905				
1880	V	-3.87	3.91	27.33	19.55	0.090157				
1907.6	V	-2.13	3.93	27.31	21.25	0.133352				

Radiated Power (E.I.R.P) for UMTS band IV									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1712.4	Н	-4.38	3.13	27.63	20.12	0.102802			
1732.4	Н	-4.36	3.27	27.61	19.98	0.099541			
1752.6	Н	-3.98	3.30	27.60	20.32	0.107647			
1712.4	V	-2.38	3.13	27.63	22.12	0.162930			
1732.4	V	-2.65	3.27	27.61	21.69	0.147571			
1752.6	V	-2.50	3.30	27.60	21.80	0.151356			

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7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2)) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency,

The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 × RBW.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

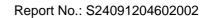
Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

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7.3.6 Test Results

EUT:	Security control panel	Model No.:	HHG3.4G.F-000-N A
Temperature:	120 7	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/ UMTS band $ { m IV} $	Test By:	Gavan Zhang

Test data reference attachment

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7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMW500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

7.4.6 Test Results

EUT:	Security control panel	IIMOGELINO :	HHG3.4G.F-000- NA
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Gavan Zhang
Results: PASS			

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Freq	Frequency Error Against Voltage for UMTS band V(Mid CH)			
Vo0ltage (V) Frequency Error (Hz) Frequency Error (ppm)				
110	-15.63	-0.018687		
120	-17.67	-0.021126		
240	-16.43	-0.019644		

Frequency Error Against Temperature for UMTS band V (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-15.03	-0.017970	
-20	-16.5	-0.019727	
-10	-18.2	-0.021760	
0	-17.81	-0.021294	
10	-18.78	-0.022453	
20	-18.1	-0.021640	
30	-18.16	-0.021712	
40	-17.16	-0.020516	
50	-23.99	-0.028682	

Note:

- 1. Normal Voltage = 120V; Battery End Point (BEP) = 110V; Maximum Voltage =240V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequ	Frequency Error Against Voltage for UMTS band II (Mid CH)				
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
110	-17.97	-0.009559			
120	-17.46	-0.009287			
240	-16.21	-0.008622			

Frequency Error Against Temperature for UMTS band II (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	-18.67	-0.009931		
-20	-15.51	-0.008250		
-10	-17.29	-0.009197		
0	-19.59	-0.010420		
10	-17.18	-0.009138		
20	-19.67	-0.010463		
30	-19.56	-0.010404		
40	-15.3	-0.008138		
50	-22.21	-0.011814		

Note:

- Normal Voltage = 120V; Battery End Point (BEP) = 110V; Maximum Voltage =240V The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequency Error Against Voltage for UMTS band IV (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
110	-16.33	-0.009426		
120	-12.57	-0.007256		
240	-15.82	-0.009132		

Frequency Error Against Temperature for UMTS band IV (Mid CH)				
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppm)			
-30	-8.24	-0.004756		
-20	-10.31	-0.005951		
-10	-10.54	-0.006084		
0	-11.61	-0.006702		
10	-12.86	-0.007423		
20	-17.2	-0.009928		
30	-18.18	-0.010494		
40	-20.01	-0.011550		
50	-24.72	-0.014269		

Note:

- 1. Normal Voltage = 120V; Battery End Point (BEP) = 110V; Maximum Voltage =240V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to Subclause 5.2.3.4 of ANSI C63.26-2015 and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

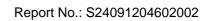
Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function:
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

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7.5.6 Test Results

EUT:	Security control panel	IIMUUEI IMO .	HHG3.4G.F-000- NA
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/ UMTS band $ { m IV} $	Test By:	Gavan Zhang
Results: PASS			

The Test data reference attachment:

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7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC KDB 971168 D01 Section 4

7.6.2 Conformance Limit

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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EUT:	Security control panel	Model No.:	HHG3.4G.F-000-N A		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode:	UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Gavan Zhang		
Results: PASS					

The Test data reference attachment:

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7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

7.7.6 Test Results

EUT:	Security control panel	Model No.:	HHG3.4G.F-000-NA
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/ UMTS band $ { m IV} $	Test By:	Gavan Zhang
Results: PASS			

The Test data reference attachment:

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7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

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7.8.6 Test Results

EUT:	Security control panel	Model No.:	HHG3.4G.F-000-NA
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	UMTS band II/ UMTS band V/ UMTS band $ { m IV} $	Test By:	Gavan Zhang
Results: PASS			

The Test data reference attachment:

END OF REPORT

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