

Report No: CCISE181109301

FCC REPORT

(Bluetooth)

Applicant: Sky Phone LLC

Address of Applicant: 1348 Washington Av.Suite 350, Miami Beach, Florida, United

States

Equipment Under Test (EUT)

Product Name: Feature Phone

Model No.: SKY MUSIC, SKY F2C

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYMUSIC

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 19 Nov., 2018

Date of Test: 20 Nov., to 29 Nov., 2018

Date of report issued: 30 Nov., 2018

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.

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2 Version

Version No.	Date	Description
00	30 Nov., 2018	This report was amended on FCC ID: 2ABOSSKYMUSIC follow FCC Class II Permissive Change. The differences between them as below: Add model .: SKY F2C . SKY F2C is a single SIM card, before SKY MUSIC was a dual SIM card. So re-test SKY F2C the CE and RE.

Tested by: Mike DU Date: 30 Nov., 2018

Test Engineer

Reviewed by: Date: 30 Nov., 2018

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna Requirement	15.203 & 15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass*
20dB Occupied Bandwidth	15.247 (a)(1)	Pass*
Carrier Frequencies Separation	15.247 (a)(1)	Pass*
Hopping Channel Number	15.247 (a)(1)	Pass*
Dwell Time	15.247 (a)(1)	Pass*
Spurious Emission	15.205 & 15.209	Pass
Band Edge	15.247(d)	Pass*

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

Pass*: Please refer to the report No.: CCISE180900402



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General Information 5

5.1 Client Information

Applicant:	Sky Phone LLC
Address:	1348 Washington Av.Suite 350 ,Miami Beach,Florida,United States
Manufacturer:	Hunan Huigao electronics technology co., ltd.
Address:	Yaodu RD north jianghua industrial park Jianghua Yaozu autonomous county ,Yongzhou,Hunan province,China

5.2 General Description of E.U.T.

Product Name:	Feature Phone
Model No.:	SKY F2C, SKY MUSIC
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	-0.1 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1000mAh
AC adapter:	Model: SKY Music Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 500mA
Remark:	The model No.: SKY F2C, SKY MUSIC were identical inside, the electrical circuit design, layout, components used and internal wiring, Different model. The PCB function is the same, only difference is as below: SKY MUSIC is a double SIM card, SKY F2C is a single SIM card

Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		
Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.							

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.
Hopping mode:	Keep the EUT in hopping mode.
Remark	GFSK (1 Mbps) is the worst case mode.

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The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working with a fresh battery, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

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)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

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

FCC - Registration No.: 727551

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

• IC - Registration No.: 10106A-1

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.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

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

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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5.8 Test Instruments list

Radiated Emission:					
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
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2017	11-20-2018
Tiom Antenna	SCHWARZBECK	BBHA 9170	BB11A9170362	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		b
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spootrum analyzar	Rohde & Schwarz	FSP40	100363	11-21-2017	11-20-2018
Spectrum analyzer	Ronde & Schwarz	F3F40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

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	03-07-2018	03-06-2019	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019	
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-07-2018	03-06-2019	
EMI Test Software	AUDIX	E3	\ \	ersion: 6.110919/	b	



6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement: FCC Part 15 C Section 15.203 & 247(c)

15.203 requirement:

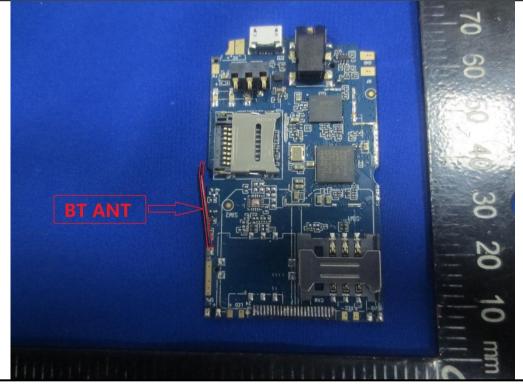
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

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

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

E.U.T Antenna:

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is -0.1 dBi.







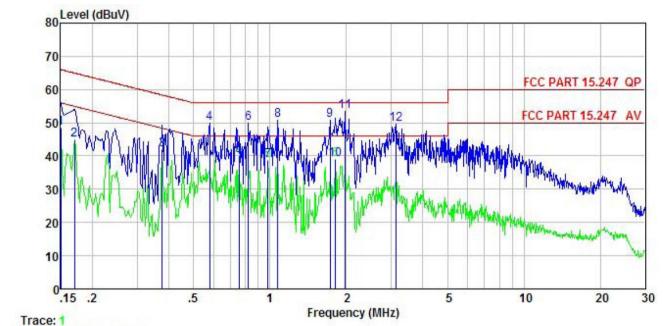
6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Test Frequency Range:	150 kHz to 30 MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9 kHz, VBW=30 k	Hz, Sweep time=auto		
Limit:	Frequency range	Limit (dBuV)	
	(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test setup:	Reference	e Plane		
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Nerestable height=0.8m	EMI Receiver		
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Hopping mode			
Test results:	Pass			
	ı			



Measurement Data:

Product name:	Feature Phone	Product model:	SKY F2C
Test by:	Alex	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu₹	<u>dB</u>		—dBu₹	—dBu∇	<u>ab</u>	
1	0.150	37.36	0.18	10.78	48.32	56.00	-7.68	Average
2	0.170	33.82	0.17	10.77	44.76	54.94	-10.18	Average
2	0.377	31.01	0.12	10.72	41.85	48.34	-6.49	Average
4	0.579	39.11	0.12	10.76	49.99	56.00	-6.01	QP
4 5 6	0.755	29.19	0.13	10.79	40.11	46.00	-5.89	Average
	0.822	38.89	0.13	10.82	49.84	56.00	-6.16	QP
7	0.984	27.60	0.13	10.87	38.60	46.00	-7.40	Average
8 9	1.071	39.79	0.13	10.88	50.80	56.00	-5.20	QP
9	1.725	39.73	0.14	10.94	50.81	56.00	-5.19	QP
10	1.810	27.93	0.14	10.95	39.02	46.00	-6.98	Average
11	1.970	42.44	0.14	10.96	53.54	56.00	-2.46	QP
12	3.123	38.54	0.17	10.92	49.63	56.00	-6.37	QP

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.



Test by: Alex Test mode: BT Tx mode Test frequency: 150 kHz ~ 30 MHz Phase: Neutral Test voltage: AC 120 V/60 Hz Environment: Temp: 22.5°C Huni: 55% 80 Level (dBuV) 70 FCC PART 15.247 OF FCC PART 15.247 AND TRANSPORTED TO THE PROPERTY OF THE PROPERTY
Test voltage: AC 120 V/60 Hz Environment: Temp: 22.5°C Huni: 55% 80 Level (dBuV) FCC PART 15.247 AV 40 June 10 June
80 Level (dBuV) FCC PART 15.247 Q6 FCC PART 15.247 AV 10 10 15 .2 5 10 20
FCC PART 15.247 QF FCC PART 15.247 AV 10 10 10 15 20 15 2 5 10 20 FFECT PART 15.247 AV 12 15 10 20 10 10 10 10 10 10 10 10
Read LISN Cable Limit Over Freq Level Factor Loss Level Line Limit Remark

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.





6.3 Conducted Output Power

Test Requirement:	Test Requirement: FCC Part 15 C Section 15.247 (b)(1)				
Test Method:	ANSI C63.10:2013 and DA00-705 RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)				
Receiver setup:					
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Non-hopping mode				
Test results:	Please refer to the report No.: CCISE180900402				





6.4 20dB Occupy Bandwidth

	2002 0000py 2010 1100 1				
Test Requirement:	nt: FCC Part 15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 and DA00-705				
Receiver setup:	RBW=30 kHz, VBW=100 kHz, detector=Peak				
Limit:	NA				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Non-hopping mode				
Test results:	Please refer to the report No.: CCISE180900402				





6.5 Carrier Frequencies Separation

	Currier Frequencies Coparation				
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 and DA00-705				
Receiver setup:	RBW=100 kHz, VBW=300 kHz, detector=Peak				
Limit:	a) 0.025MHz or the 20dB bandwidth (whichever is greater)b) 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Hopping mode				
Test results:	Please refer to the report No.: CCISE180900402				





6.6 Hopping Channel Number

The first plants of the second	Tropping Griamior Hambor					
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013 and DA00-705 RBW=100 kHz, VBW=300 kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak					
Receiver setup:						
Limit:	15 channels					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Hopping mode					
Test results:	Please refer to the report No.: CCISE180900402					





6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013 and KDB DA00-705				
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak				
Limit:	0.4 Second				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Hopping mode				
Test results:	Please refer to the report No.: CCISE180900402				

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6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part 15 C Section 15.247 (a)(1) requirement:

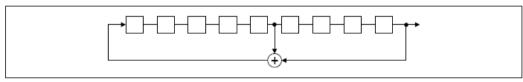
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

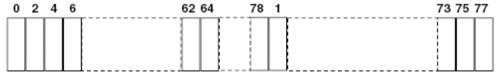
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- · Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



6.9 Band Edge

6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and DA00-705				
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak				
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 5.8 for details				
Test mode:	Non-hopping mode and hopping mode				
Test results:	Please refer to the report No.: CCISE180900402				



6.9.2 Radiated Emission Method

	2 Radiated Emission Method						
Test Requirement:							
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	2.3GHz to 2.5GHz						
Test Distance:	3m						
Receiver setup:	Frequency	Detecto	or	RBW	VE	VBW Remark	
	Above 1GHz	Peak		1MHz	3MHz		Peak Value
	7.0000 10112	RMS		1MHz	3MHz		Average Value
Limit:	Frequen	Limit (dBuV/m @3m)			Remark		
	Above 10	H ₇	54.00			Average Value	
	Above 10	J1 12		74.00		Peak Value	
	Horn Antenna Tower AE EUT Ground Reference Plane Test Receiver Amplifer Controller						
Test Procedure:	ground at a determine the second seco	3 meter cane position as set 3 me inch was eading. The inch was eading. The inch was eading inch would be reported in would be incorrected in would incorrect in which we was a second in which we would incorrect in which would incorrect in would inco	was to turned the Esting of th	r. The table was en highest radial away from the ed on the top of the ed on the top of the ed on the EUT was as set to Peak aximum Hold I EUT in peak me could be stopp nerwise the emested one by or	s rotatition. interfer fa var ter to for the fit antenions as arra as from the ees to Detect Mode. ode water and	ted 360 erence-liable-ha four me ield stre na are s anged to 1 mete 360 de t Functi as 10dE d the pe s that d ng peak	receiving eight antenna sters above the ength. Both set to make the oits worst case or to 4 meters grees to find the son and solower than the eak values of the lid not have a quasi-peak or
Test Instruments:	average method as specified and then reported in a data sheet. Refer to section 5.8 for details						
Test mode:	Non-hopping mode						
Test results:	Please refer to		No.:	CCISE180900	402		
		•					



6.10 Spurious Emission

6.10.1 Conducted Emission Method

Total Conducted Emission Metrica						
Test Requirement:	nt: FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and DA00-705					
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 5.8 for details					
Test mode:	Non-hopping mode					
Test results:	Please refer to the report No.: CCISE180900402					





6 10 2 Radiated Emission Method

6.10.2 Radiated Emission Mo	ethod								
Test Requirement:	FCC Part 15 C Section 15.209								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	9 kHz to 25 GHz								
Test Distance:	3m								
Receiver setup:	Frequency Detector RBW VBW Rema			Remark					
	30MHz-1GHz	Quasi-p	eak	120kHz 300kl		Hz	Quasi-peak Value		
	Above 1GHz	Peak	(1MHz 3MH		lz	Peak Value		
	Above 1GHz	RMS	S 1MHz 3MH		lz	Average Value			
Limit:	Frequenc	:y	Limit (dBuV/m @3m)				Remark		
	30MHz-88N	ИHz		40.0	40.0 Quasi-peak \				
	88MHz-216	MHz		43.5			Quasi-peak Value		
	216MHz-960	MHz	46.0				Quasi-peak Value		
	960MHz-10	SHz	54.0				Quasi-peak Value		
	Above 1GI	∐ -5	54.0				Average Value		
	Above 1GI	ΠΖ	74.0				Peak Value		
	Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz				Search Antenna 7 Test ceiver				
AEEUT			3m Ground Reference Plane	Horn Antenna Pre- Amplifer Co	Anten	na Tower			
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. 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 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.
	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, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.





Measurement Data (worst case):

Below 1GHz:

Product	Product Name:		Feature Phone			duct Mode	el: S	SKY F2C		
Test By	Test By:		Alex				E	BT Tx mode		
Test Fre	Test Frequency:		30 MHz ~ 1 GHz			arization:	\	Vertical		
Test Vo	Test Voltage:		AC 120/60Hz				7	Temp: 24℃ Huni: 57%		
70 60 50 40 30	el (dBuV/m)		3	4	mostragentia	the specifical second	for his secretarion of the second	FC(C PART 15	.247
030	50		100	Frea	200 uency (MH	z)		500		1000
	Freq		intenna Factor	Cable	Preamp		Limit Line		Remark	
9	MHz	dBu∜	dB/π	₫B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/π	<u>ab</u>		
1 2 3 4 5 6	51.662 63.092 103.806 135.506 501.179 755.387	37. 39 39. 24 42. 79 39. 49 31. 02 29. 54	13.80 11.32 11.94 8.36 17.51 21.00	1. 27 1. 38 1. 99 2. 35 3. 63 4. 36	29.81 29.76 29.50 29.30 28.96 28.45	22.65 22.18 27.22 20.90 23.20 26.45	40.00 43.50 43.50 46.00	1 -17.35 1 -17.82 1 -16.28 1 -22.60 1 -22.80 1 -19.55	QP QP QP QP	

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.





Product Name: Test By: Test Frequency: Test Voltage:		Feature Phone Alex 30 MHz ~ 1 GHz AC 120/60Hz				Product Model:		SKY F2C		
						t mode:	В	BT Tx mode Horizontal Temp: 24°C Huni: 57%		
						arization:	F			
						rironment:	Т			
Law	al falDerlifes									
80 Leve	el (dBuV/m)									
70										
70										
60										
X 20.5								FCC	PART	15.247
50										
40										
40										
30					2000					5
			1		2			100		
			14		3 4 1 VV			5	white the said	Anna Waler
20		e John	1	where it	AWA 14 MAN	hand wheel and an	Later frage of the Con	5 deckerolary and a second	way party	Maria Market
20	Mary Surface S	arry market	www.	white address	AMON TO THE MAN	hand sphered warmer	hadanapalina	South the state of	yender out	A CONTRACTOR OF THE PARTY OF TH
20	the good from the second stand	many many many	www.	white a white	Aury Try Charles	hadapladara.	hapen and other and	South of the state	programa.	Language Market
20	And the second s	Portugal Production and	100	Wheel and beautiful	200	handrepherbers and	degreed and of the same	500	production of the second	1000
20 10 M/M		Professional Superior	100	Freq	mor that	luna popladana	hadragen armospolitic dans	500	washing and	1000
20 10 M/M	50	Read	Ant enna	Cable	200 uency (MH	100	Limit	Over	productive.	
20 10 M/M		Read		Cable	200 uency (MH			Over	Rema	
20 10 M/M	50	Read	Antenna Factor	Cable	200 uency (MH Preamp Factor	100	Line	Over Limit	Rema	
20 10 W	Freq	Read/ Level ———————————————————————————————————	Antenna Factor ——dB/m	Cable Loss dB	200 uency (MH Preamp Factor	Level	Line dBuV/m	Over Limit ———————————————————————————————————		
20 10	50 Freq	Read/ Level	Antenna Factor	Cable Loss dB 1.95 1.99	200 uency (MH Preamp Factor	Level	Line dBuV/m 43.50	Over Limit	QP	
20 10	50 Freq MHz 99.528 103.806 176.269	Read/ Level dBuV 39.04 41.03 41.47	Antenna Factor — dB/m 11.62 11.94 9.65	Cable Loss dB 1.95 1.99 2.70	200 uency (MH Preamp Factor ————————————————————————————————————	Level dBuV/m 23.08 25.46 24.82	Line dBuV/m 43.50 43.50 43.50	Over Limit dB -20.42 -18.04 -18.68	QP QP QP	
20 10	50 Freq MHz 99.528 103.806 176.269 194.453	Read/ Level dBuV 39.04 41.03 41.47 38.97	Antenna Factor — dB/m 11.62 11.94 9.65 11.34	Cable Loss dB 1.95 1.99 2.70 2.83	200 uency (MH Preamp Factor ————————————————————————————————————	Level dBuV/m 23.08 25.46 24.82 24.27	Line dBuV/m 43.50 43.50 43.50 43.50	Over Limit 	QP QP QP QP	
20 10 W	50 Freq MHz 99.528 103.806 176.269	Read/ Level dBuV 39.04 41.03 41.47	Antenna Factor — dB/m 11.62 11.94 9.65	Cable Loss dB 1.95 1.99 2.70	200 uency (MH Preamp Factor ————————————————————————————————————	Level dBuV/m 23.08 25.46 24.82 24.27	Line dBuV/m 43.50 43.50 43.50 43.50 46.00	Over Limit dB -20.42 -18.04 -18.68	QP QP QP QP QP	

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.





Above 1GHz:

Above IGHZ	•									
			Test ch	annel: Lowe	est channel					
			De	tector: Peak	Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	50.15	30.85	6.80	41.81	45.99	74.00	-28.01	Vertical		
4804.00	49.87	30.85	6.80	41.81	45.71	74.00	-28.29	Horizontal		
			Dete	ctor: Averag	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	39.62	30.85	6.80	41.81	35.46	54.00	-18.54	Vertical		
4804.00	38.11	30.85	6.80	41.81	33.95	54.00	-20.05	Horizontal		
				annel: Midd						
				tector: Peak	Value		T .			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4882.00	49.81	31.20	6.86	41.84	46.03	74.00	-27.97	Vertical		
4882.00	47.82	31.20	6.86	41.84	44.04	74.00	-29.96	Horizontal		
			Dete	ctor: Averag	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4882.00	39.62	31.20	6.86	41.84	35.84	54.00	-18.16	Vertical		
4882.00	38.51	31.20	6.86	41.84	34.73	54.00	-19.27	Horizontal		
Test channel: Highest channel										
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	49.81	31.63	6.91	41.87	46.48	74.00	-27.52	Vertical		
4960.00	49.20	31.63	6.91	41.87	45.87	74.00	-28.13	Horizontal		
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	39.64	31.63	6.91	41.87	36.31	54.00	-17.69	Vertical		
4960.00	38.51	31.63	6.91	41.87	35.18	54.00	-18.82	Horizontal		

Remark:

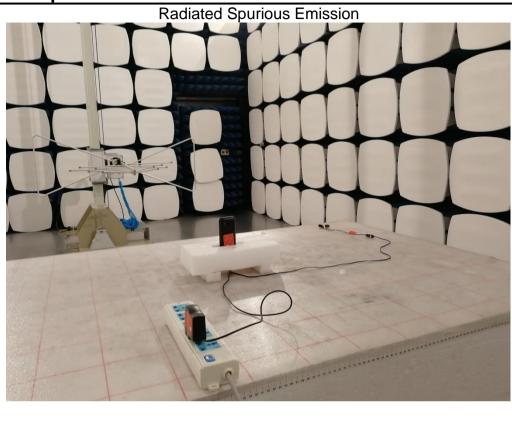
^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

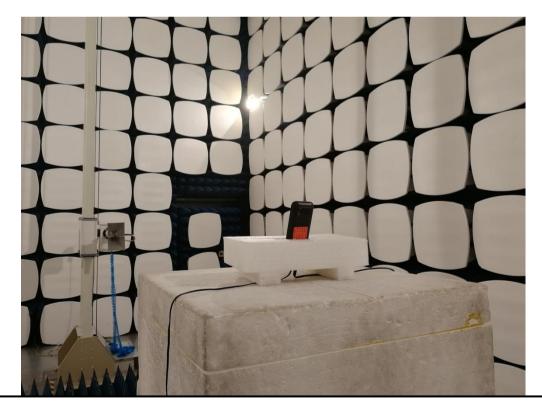
^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.





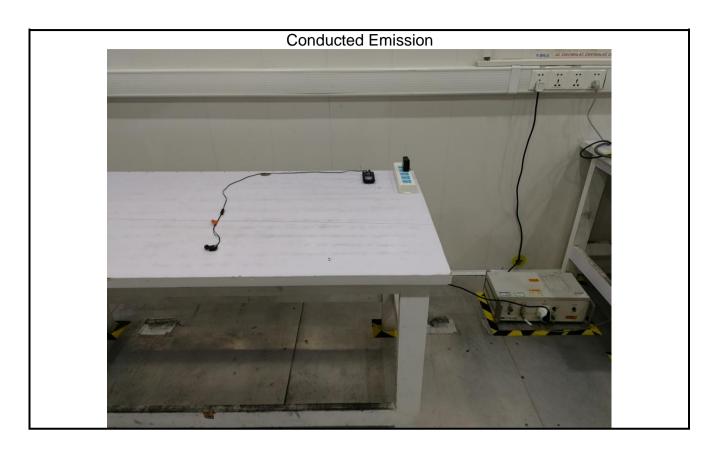
7 Test Setup Photo





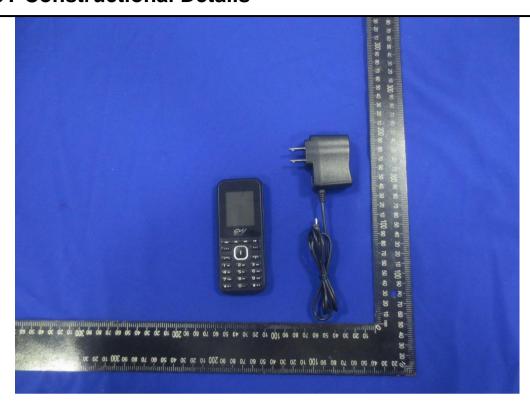








8 EUT Constructional Details

























































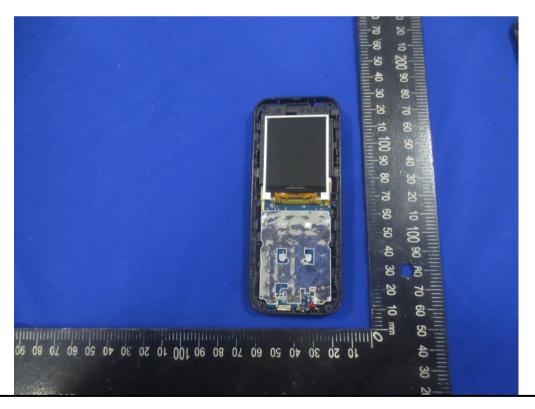








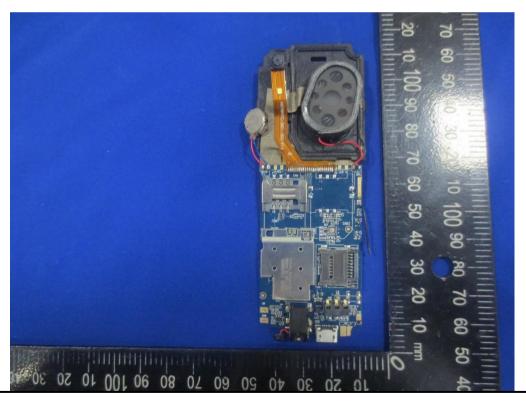








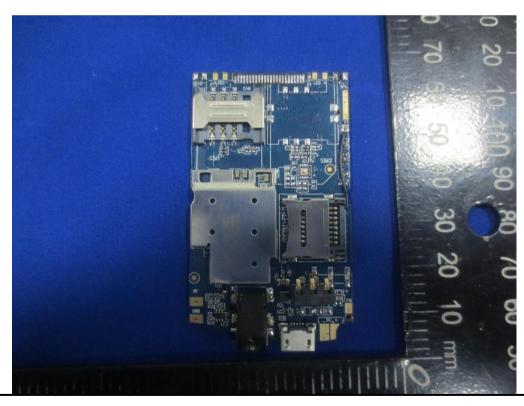








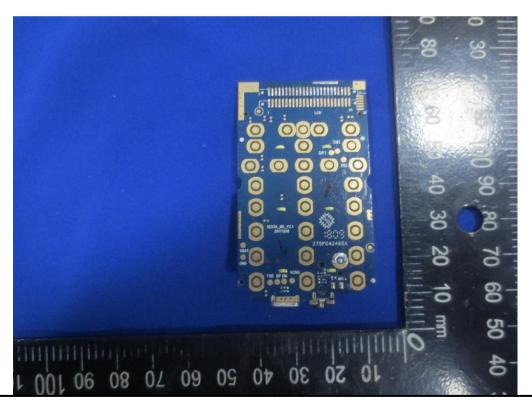








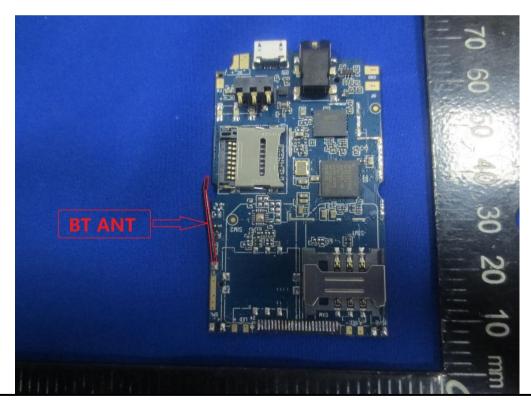






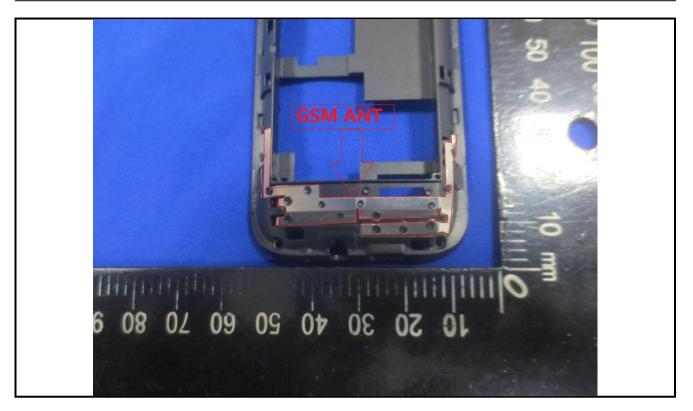












-----End of report-----