

Report No: CCISE200403603

FCC REPORT

Applicant:	Sky Phone LLC
Address of Applicant:	1348 Washington Av.Suite 350, Miami Beach, Florida, United States
Equipment Under Test (E	EUT)
Product Name:	Feature Phone
Model No.:	SKY ROCK
Trade mark:	SKY DEVICES
FCC ID:	2ABOSSKYROC
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	15 Apr., 2020
Date of Test:	15 Apr., to 23 Apr., 2020
Date of report issued:	24 Apr., 2020
Test Result:	PASS *

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

Authorized Signature:



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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Version 2

Version No.	Date	Description
00	24 Apr., 2020	Original

Tested by:

Janet Wi Test Engineer Wei

Date: 24 Apr., 2020

Reviewed by:

Winner Mang Project Engineer

Date: 24 Apr., 2020

<u>CCIS</u>

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4 Test Summary

Test Item	Section in CFR 47	Result			
Conducted Emission	Part 15.107	Pass			
Radiated Emission	Part 15.109	Pass			
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: The EUT not applicable of the test item.					
Test Method: ANSI C63.4:2014					



5 General Information

5.1 Client Information

Applicant:	Sky Phone LLC
Address:	1348 Washington Av.Suite 350, Miami Beach, Florida, United States
Manufacturer:	Sky Phone LLC
Address:	1348 Washington Av.Suite 350, Miami Beach, Florida, United States

5.2 General Description of E.U.T.

Product Name:	Feature Phone
Model No.:	SKY ROCK
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter:	Model: SKY Rock
	Input: AC100-240V, 50/60Hz, 0.15A
	Output: DC 5.0V, 500mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description		
PC mode	Keep the EUT in Downloading mode(Worst case)		
Charging+Recording mode Keep the EUT in Charging+Recording mode			
Charging+Playing mode	Keep the EUT in Charging+Playing mode		
FM mode	Keep the EUT in FM receiver mode		
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable,			

varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case

5.4 Measurement Uncertainty

are shown in Test Results of the following pages.

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)		



5.5 Description of Support Units

Manufacturer	Description	Model Serial Number		FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

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

5.7 Description of Cable Used

Cable Type	Description	Description Length		То
Detached USB Cable Unshielded		0.8m	EUT	PC/Adapter

5.8 Additions to, deviations, or exclusions from the method

No

5.9 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.

• 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

5.10 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



5.11 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	03-18-2020	03-17-2021		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2020	03-17-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2020	03-17-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020		
EMI Test Software	AUDIX	E3	١	/ersion: 6.110919	b		
Pre-amplifier	HP	8447D	2944A09358	03-18-2020	03-17-2021		
Pre-amplifier	CD	PAP-1G18	11804	03-18-2020	03-17-2021		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2020	03-17-2021		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2020	03-17-2021		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2020	03-17-2021		
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2020	03-17-2021		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2020	03-17-2021		

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	03-18-2020	03-17-2021	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2020	03-17-2021	
LISN	CHASE	MN2050D	1447	03-18-2020	03-17-2021	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020	
Cable	HP	10503A	N/A	03-18-2020	03-17-2021	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit	(dBµV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
Test setup:	* Decreases with the logarithm Reference Plane	or the frequency.	
	LISN 40cm 80cm AUX Equipment E.U.T Fequipment E.U.T Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	
Test procedure	 The E.U.T and simulators are impedance stabilization network coupling impedance for the rest The peripheral devices are a LISN that provides a 500hm/ termination. (Please refers to photographs). Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.4(Ia) 	vork(L.I.S.N.). The prov neasuring equipment. Iso connected to the m '50uH coupling impeda the block diagram of t checked for maximum d the maximum emissi all of the interface cal	ide a 50ohm/50uH nain power through a nce with 50ohm the test setup and conducted on, the relative oles must be changed
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		



...... n /

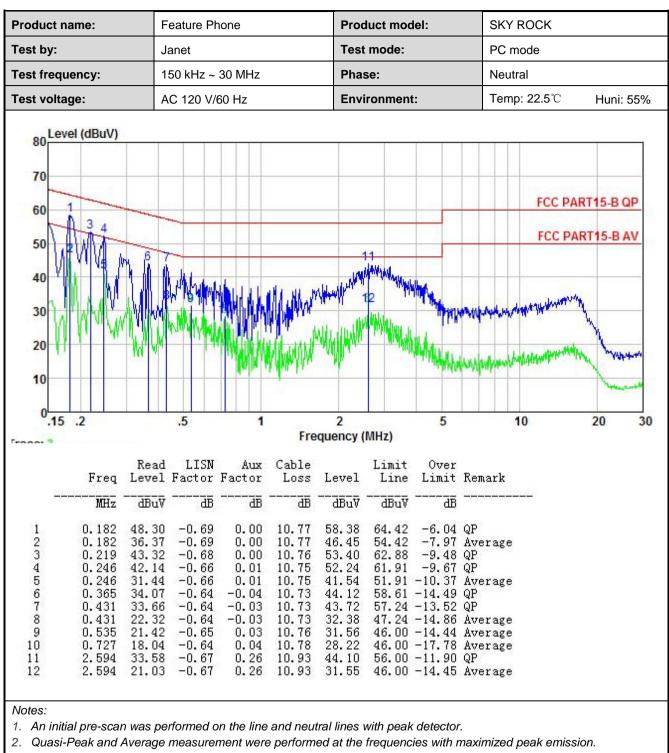
oduct name:	Fe	ature Pho	ne		Produc	ct model	:	SKY ROCK			
st by:	Ja	net			Test m	ode:		PC mode			
est frequency:	15	150 kHz ~ 30 MHz			Phase	:		Line	Line		
st voltage:	AC	C 120 V/60) Hz		Enviro	nment:		Temp: 22.5℃	Huni: 55%		
80 Level (dBu 70 60 50 40 30				477-1					ART15-B QP		
		.5	1	Frequ	2 Jency (Mł	Hz)	5	10	20 30		
10 0.15 .2		LISN	Aux	Cable	uency (Mi	Limit	Over		here		
10 0.15 .2	q Level	LISN Factor	Aux	Cable	Level		Over Limit	10 Remark	here		
10 0.15 .2	q Level	LISN Factor	Aux	Cable	uency (Mi	Limit	Over		he		

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.







3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Se	ection 15.10	9					
Test Frequency Range:	30MHz to 6000MH	Hz						
Test site:	Measurement Dis	tance: 3m (Sem	i-Anechoic (Chamber)			
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Remark		
	30MHz-1GHz	Quasi-pea		120kHz	300kHz	Quasi-peak Value		
		Peak			3MHz	Peak Value		
	Above 1GHz	RMS		1MHz	3MHz	Average Value		
Limit:	Frequenc	v	Lim	nit (dBuV/m	@3m)	Remark		
	30MHz-88M		40.0			Quasi-peak Value		
	88MHz-216MHz			43.5		Quasi-peak Value		
	216MHz-960MHz			46.0		Quasi-peak Value		
	960MHz-1G	GHz		54.0		Quasi-peak Value		
		1-		54.0		Average Value		
	Above 1G	72		74.0		Peak Value		
Test setup:	Below 1GHz	4m		RFT		1		
		EUT		Horn Antenna Horn Antenna ence Plane	Antenna Tower			
Test Procedure:	ground at a 3 m degrees to dete 2. The EUT was s which was mou 3. The antenna he ground to deter	neter semi-a ermine the p set 3 meters unted on the eight is varie rmine the ma	anec bositi awa top ed fro axim	hoic camber on of the hig ay from the in of a variable om one mete num value of	The table ghest radiat nterference height an er to four m the field st	e-receiving antenna, tenna tower. heters above the		



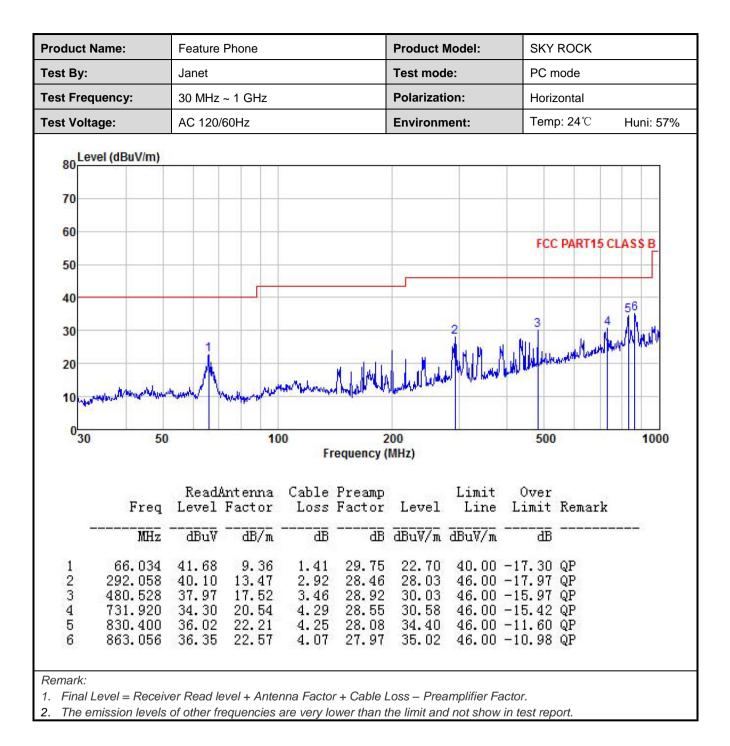
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



Measurement Data:

roduct M	Name:	Featur	e Phone			Produ	ct Model:		SKY ROCK	
est By:		Janet				Test n	node:		PC mode	
est Freq	uency:	30 MH	z ~ 1 GHz			Polari	zation:		Vertical	
est Volta	age:	AC 12	0/60Hz			Enviro	onment:		Temp: 24 ℃	Huni: 57%
80 Lev	el (dBuV/m)									
70										
60									FCC DADT	15 CLASS B
50									FCC PART	TO CLASS B
40									2	6
30		- Å		-		_	2 1		5	wouldhat
20		/\				The factor	Ĩ AN		hys handle	hard har and a manual
20	M.M.L.	Martin	howwhen	how when	1 Kill	Markin	Mound Y 14	Hanted Haven an		
10	the Walk			-	a Me Helman.	MMI (Ibathic at				
030	5	n		100		200			500	1000
30	5	J		100	Frequenc				500	1000
		ReadA	ntenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBu∛		dB	<u>d</u> B	dBuV/m	dBuV/m	B		
1	66.266	50.61	9.29	1.41	29.75	31.56	40.00	-8.44	QP	
2 3 4 5	261.975 315.481	38.20 41.01	12.93 13.92	2.84 2.99	28.52 28.49	25.45 29.43		-20.55		
4	334.859	40.28	14.30	2.99	28.53	29.45		-16.90		
5	480.528	39.58	17.52	3.46	28.92	31.64		-14.36		
6	830.400	37.02	22.21	4.25	28.08	35.40		-10.60		
emark:										
	Level = Rece	iver Read	level + An	tenna Fa	ctor + Cab	le Loss – F	Preamplifie	r Factor.		
	mission level						,		t report	







Above 1GHz:

Produc	ct Name:	Feat	ture Phone	Э		F	Product N	lodel:	SKY ROC	CK	
est B	y:	Jane	et			٦	est mod	e:	PC mode	1	
est Fi	requency:	1 Gł	Hz ~ 6 GH	z		F	Polarizati	on:	Vertical		
est V	oltage:	AC ²	120/60Hz			E	Invironm	ent:	Temp: 24	°C	-uni: 57%
	evel (dBuV/m)	Ŧ									
80	ever (ubu viiii)								FCC	PART 15	(PK)
70											4.14
60									FCC	PART 1	5 (AV)
50										3	5 L. Make
1000								1.1	wanentwork	human	Avatua
40	and a logic		a marte	Mohan	monard	mann	mann	2		-	
30	mantheaders	when	L'Church . 47							_	
20											
				_							
10											
	000 1200	15	500	20	00			-		5000	6000
	000 1200	15	500	20		iency (MI	łz)			5000	6000
		Read	Antenna	Cable	Frequ Preamp		Limit	Over		5000	6000
		Read		Cable	Frequ Preamp Factor	Level	Limit Line	Limit	Remark	5000	6000
		Read	Antenna Factor	Cable	Frequ Preamp Factor	Level	Limit	Limit	Remark	5000	6000
0 0 1	Freq 	Read/ Level dBuV 47.94	Antenna Factor dB/m 28.58	Cable Loss dB 5.62	Frequ Preamp Factor dB 41.35	Level dBuV/m 42.92	Limit Line dBuV/m 74.00	Limit dB -31.08		5000	6000
0 10 1	Freq 	Read/ Level dBuV 47.94 40.03	Antenna Factor 	Cable Loss dB 5.62 5.62	Frequ Preamp Factor dB 41.35 41.35	Level dBuV/m 42.92 35.01	Limit Line dBuV/m 74.00 54.00	Limit dB -31.08 -18.99	 Peak Average	5000	6000
0 1 2 3 4	Freq MHz 3393.901 3393.901 4900.271 4900.271	Read/ Level dBuV 47.94 40.03 48.21 40.38	Antenna Factor 	Cable Loss dB 5.62 5.62 6.87 6.87	Frequ Preamp Factor dB 41.35 41.35 41.85 41.85	Level dBuV/m 42.92 35.01 46.91 39.08	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Limit dB -31.08 -18.99 -27.09 -14.92	Peak Average Peak Average	5000	6000
0_1(1 2 3	Freq 	Read/ Level dBuV 47.94 40.03 48.21 40.38 48.95	Antenna Factor 	Cable Loss dB 5.62 5.62 6.87	Frequ Preamp Factor dB 41.35 41.35 41.85 41.85 41.85 41.85	Level dBuV/m 42.92 35.01 46.91 39.08 49.48	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00 74.00	Limit -31.08 -18.99 -27.09 -14.92 -24.52	Peak Average Peak Average	5000	6000

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



