

Report No: CCISE180900403

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 Music
Trade mark:	SKY DEVICES
FCC ID:	2ABOSSKYMUSIC
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	04 Sep., 2018
Date of Test:	04 Sep., to 11 Sep., 2018
Date of report issued:	12 Sep., 2018
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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



2 Version

Version No.	Date	Description
00	12 Sep., 2018	Original

Tested by:

lang Test Engineer

Date:

Date:

12 Sep., 2018

12 Sep., 2018

Reviewed by:

Wimer Many

Project Engineer

<u>CCIS</u>

Report No: CCISE180900403

3 Contents

			Page
1	С	OVER PAGE	1
2	v	/ERSION	2
3	С	CONTENTS	3
4	т	EST SUMMARY	4
5	G	SENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	
	5.3	Test Mode	5
	5.4	Measurement Uncertainty	5
	5.5	DESCRIPTION OF SUPPORT UNITS	6
	5.6	Related Submittal(s) / Grant (s)	6
	5.7	LABORATORY FACILITY	6
	5.8	LABORATORY LOCATION	
	5.9	Test Instruments list	
6	Т	EST RESULTS AND MEASUREMENT DATA	8
	6.1	Conducted Emission	
	6.2	RADIATED EMISSION	
7	т	EST SETUP PHOTO	
8	Е	UT CONSTRUCTIONAL DETAILS	



4 Test Summary

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



5 General Information

5.1 Client Information

Applicant:	Sky Phone LLC
Address of Applicant:	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 Music
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter :	Model: SKY Music Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 500mA

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
GPS mode	Keep the EUT in GPS 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 are shown in Test Results of the following pages.

5.4 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)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

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

5.7 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 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



5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-16-2018	03-15-2019
Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	03-07-2018	03-06-2019
Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	03-07-2018	03-06-2019
Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		b
Coaxial Cable	N/A	N/A	CCIS0018	03-07-2018	03-06-2019
Coaxial Cable	N/A	N/A	CCIS0020	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	CCIS0074	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Coaxial Cable	CCIS	N/A	CCIS0086	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		



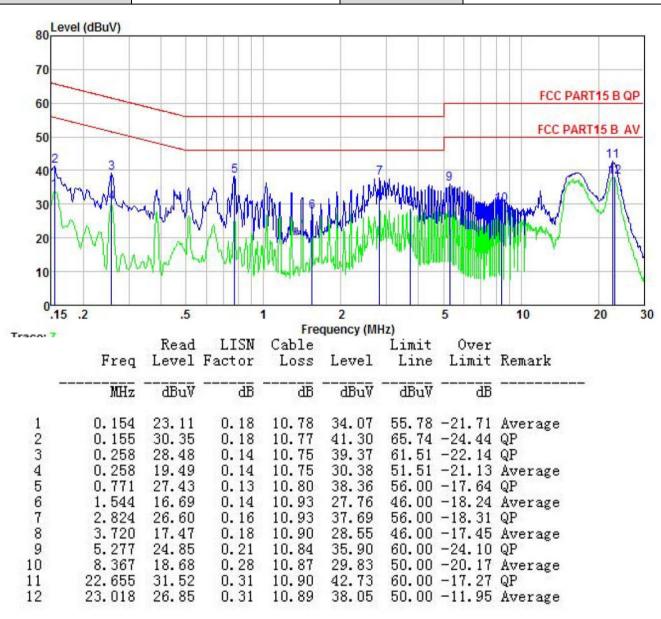
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7		
Test Method:	ANSI C63.4:2014			
	150kHz to 30MHz			
Test Frequency Range:				
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Frequency range (MHz)	Frequency range (MHz)		
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
	* Decreases with the logarith	m of the frequency.		
Test setup:	Reference Pla	ne		
	LISN 40cm 80cm Filter AC power Full Filter AC power Equipment E.U.T EMI Test table/Insulation plane EMI Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide 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 refers 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 environment:	Temp.: 23 °C Humid.: 56% Press.: 101kPa			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

Measurement data:

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



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.





roduct name:	name: Feature Phone			Product model:			SKY Music			
est by:	Yaro			Tes	t mode:	P	PC mode			
est frequency: 150 kHz ~		Hz ~ 30 MHz			ise:	Ν	Neutral			
est voltage: AC 120 V/60 Hz			Env	vironmen	t: T	ີ emp: 22.5 ℃	Huni: 55%			
Lovel (dBuV)										
80 Level (dBuV)										
70					_	_				
60							FCCI	PART15 B QP		
						3	FCCF	ART15 B AV		
50							1001	11		
40 100 4		5	8	10				(A)		
40 WW	de a		A.L. MAR	When when				MA		
30	M. M	10 WW WUHW	ANTW WW	L. Miller, Ad Jak	White a phile birg super	lang you	Million I	W1		
MA I	June AL	W. Water I.		I A I A A A A A A	1.46	Mar Ist	C MAN			
	A 1			N TIMM	" Manual	E-A-MILLIN				
20 11										
20 1	1	Walk	AN WAY			- Nin Ini	\sim	J.		
20 10	What	White	1 M Mar 44							
Y W	what	(What	M. Mary							
Y W	.5	1 What	1	2		5	10	20 30		
10	.5		and the second s	2 equency (M	Hz)	5	10	20 30		
10 0.15 .2	Read	LISN	Fre Cable	quency (M	Limit	Over		20 30		
10	Read		Fre		-	Over		20 30		
10 0.15 .2	Read Level	LISN	Fre Cable	quency (M	Limit	Over	Remark	20 30		
10 0.15 .2 Free MHz	Read Level dBuV	LISN Factor dB	Fre Cable Loss dB	equency (M Level dBuV	Limit Line dBuV	Over Limit dB	Remark	20 30		
10 0.15 .2 Free MHz 1 0.158	Read Level dBuV 30.76	LISN Factor dB 0.98	Fre Cable Loss dB 10.77	equency (M Level dBuV 42.51	Limit Line dBuV 65.56	Over Limit dB -23.05	Remark 	20 30		
10 0.15 .2 Free 1 0.158 2 0.158 3 0.249	Read Level dBuV 30.76 22.21 19.28	LISN Factor dB	Fre Cable Loss dB	equency (M Level dBuV	Limit Line dBuV 65.56 55.56	Over Limit -23.05 -21.60	Remark	20 30		
10 0.15 .2 Free MHz 1 0.158 2 0.158 3 0.249 4 0.253	Read Level dBuV 30.76 22.21 19.28 29.43	LISN Factor dB 0.98 0.98 0.95 0.95	Fre Cable Loss dB 10.77 10.77 10.75 10.75	equency (M Level dBuV 42.51 33.96 30.98 41.13	Limit Line dBuV 65.56 55.56 51.78 61.64	Over Limit dB -23.05 -21.60 -20.80 -20.51	Remark QP Average Average QP	20 30		
10 0.15 .2 Free MHz 1 0.158 2 0.158 3 0.249 4 0.253 5 0.627	Read Level dBuV 30.76 22.21 19.28 29.43 30.08	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.97	Fre Cable Loss dB 10.77 10.77 10.75 10.75 10.75	dBuV 42.51 33.96 30.98 41.13 41.82	Limit Line dBuV 65.56 55.56 51.78 61.64 56.00	Over Limit -23.05 -21.60 -20.80 -20.51 -14.18	Remark QP Average Average QP QP	20 30		
10 0.15 .2 Free MHz 1 0.158 2 0.158 3 0.249 4 0.253 5 0.627 6 0.627	Read Level dBuV 30.76 22.21 19.28 29.43 30.08 19.06	LISN Factor dB 0.98 0.98 0.95 0.95 0.97 0.97	Fre Cable Loss dB 10.77 10.77 10.75 10.75 10.75 10.77 10.77	dBuV 42.51 33.96 30.98 41.13 41.82 30.80	Limit Line dBuV 65.56 55.56 51.78 61.64 56.00 46.00	Over Limit -23.05 -21.60 -20.80 -20.51 -14.18 -15.20	Remark QP Average Average QP QP Average	20 30		
10 0.15 .2 Free MHz 1 0.158 2 0.158 3 0.249 4 0.253 5 0.627 6 0.627 7 1.000	Read Level dBuV 30.76 22.21 19.28 29.43 30.08 19.06 19.96	LISN Factor dB 0.98 0.98 0.95 0.95 0.97 0.97 0.97 0.97	Fre Cable Loss dB 10.77 10.77 10.75 10.75 10.75 10.77 10.77 10.87	dBuV Level dBuV 42.51 33.96 30.98 41.13 41.82 30.80 31.80	Limit Line dBuV 65.56 55.56 51.78 61.64 56.00 46.00 46.00	Over Limit -23.05 -21.60 -20.80 -20.51 -14.18 -15.20 -14.20	Remark QP Average QP QP Average Average Average	20 30		
10 0.15 .2 Free MH2 1 0.158 2 0.158 3 0.249 4 0.253 5 0.627 6 0.627 7 1.000 8 1.249	Read Level dBuV 30.76 22.21 19.28 29.43 30.08 19.06 19.96 29.29	LISN Factor dB 0.98 0.98 0.95 0.95 0.97 0.97	Fre Cable Loss dB 10.77 10.77 10.75 10.75 10.75 10.77 10.87 10.87 10.90	duency (M Level dBuV 42.51 33.96 30.98 41.13 41.82 30.80 31.80 41.16	Limit Line dBuV 65.56 55.56 51.78 61.64 56.00 46.00 46.00 56.00	Over Limit -23.05 -21.60 -20.80 -20.51 -14.18 -15.20 -14.20 -14.84	Remark QP Average QP QP Average Average Average QP	20 30		
10 0.15 .2 Free 1 0.158 2 0.158 3 0.249 4 0.253 5 0.627 6 0.627 7 1.000 8 1.249 9 1.878 10 2.500	Read Level dBuV 30.76 22.21 19.28 29.43 30.08 19.06 19.96 29.29 20.70 27.88	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.97 0.97 0.97 0.97 0.97	Fre Cable Loss dB 10.77 10.77 10.75 10.75 10.75 10.77 10.77 10.87	dBuV Level dBuV 42.51 33.96 30.98 41.13 41.82 30.80 31.80	Limit Line dBuV 65.56 55.56 51.78 61.64 56.00 46.00 46.00 56.00 46.00 56.00	Over Limit -23.05 -21.60 -20.51 -14.18 -15.20 -14.20 -14.84 -13.37 -16.19	Remark QP Average Average QP Average Average QP Average QP	20 30		
10 0.15 .2 Free 1 0.158 2 0.158 3 0.249 4 0.253 5 0.627 6 0.627 7 1.000 8 1.249 9 1.878	Read Level dBuV 30.76 22.21 19.28 29.43 30.08 19.06 19.96 29.29 20.70 27.88 33.74	LISN Factor dB 0.98 0.98 0.95 0.95 0.95 0.97 0.97 0.97 0.97 0.97 0.97	Fre Cable Loss dB 10.77 10.77 10.75 10.75 10.75 10.77 10.87 10.90 10.95	dBuV Level dBuV 42.51 33.96 30.98 41.13 41.82 30.80 31.80 41.16 32.63	Limit Line dBuV 65.56 55.56 51.78 61.64 56.00 46.00 46.00 56.00 46.00 56.00 60.00	Over Limit -23.05 -21.60 -20.80 -20.51 -14.18 -15.20 -14.20 -14.20 -14.37 -16.19 -14.52	Remark QP Average Average QP Average Average QP Average QP	20 30		

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.



CCIS

6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109						
Test Method:	ANSI C63.4:201	4					
Test Frequency Range:	30MHz to 6000	MHz					
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber))
Receiver setup:	Frequency	ctor	RBW	VB۱			
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value
	Above 1GHz	Pea		1MHz	3MHz		Peak Value
[:===:t+	Frequenc	RM		1MHz (dBuV/m @	3MF	1Z	Average Value Remark
Limit:	30MHz-88M	,	LIIIII	40.0	«SIII)	0	Quasi-peak Value
	88MHz-216M			43.5			Quasi-peak Value
	216MHz-960			46.0			Quasi-peak Value
	960MHz-1G			54.0			Quasi-peak Value
				54.0			Average Value
	Above 1G	ΗZ		74.0			Peak Value
Test setup:					Antenna Searcl Antenn RF Test Receiver -	h	
		rntable)	Ground R Receiver	teference Plane	Controller		



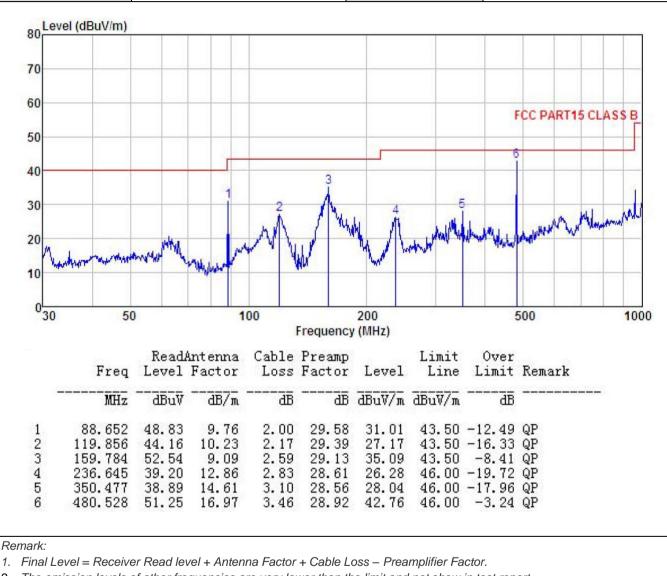
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement 						
	 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 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 environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa	
Test Instruments:	Refer to section 5.9 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:

Below	1GHz:
-------	-------

Belefi Terrei			
Product Name:	Feature Phone	Product Model:	SKY Music
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



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



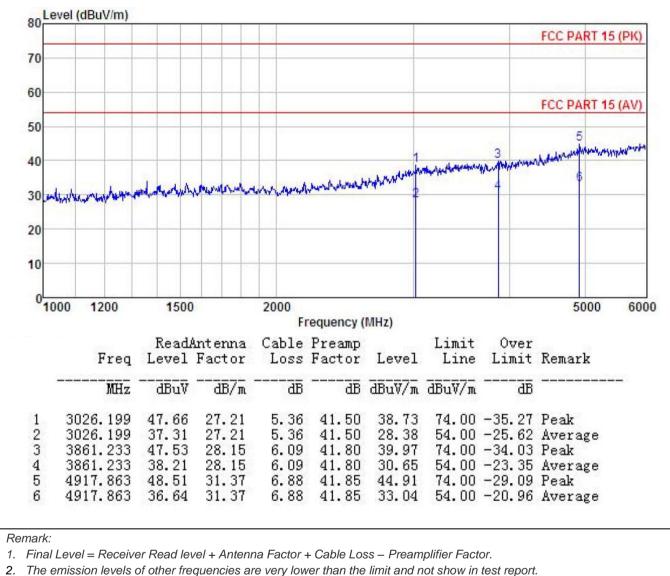


	lame:	Feature Phone				Product	Model:	SKY	SKY Music		
est By:		Yaro				Test mo	de:	PC	PC mode		
est Freq	uency:	30 MHz ~ 1 GHz				Polariza	tion:	Hori	Horizontal		
est Volta	ige:	AC 120/6	60Hz			Environ	ment:	Terr	າ p: 24 ℃	Huni: 57%	
80 Lev 70 60 50 40 30	rel (dBuV/m)	Luce Ma		M	And the second s		Ann M		4 Mul Mu	5 6	
10	WANNA CONTRACTOR		and the second second								
10 0 30	50		1	100	Frequenc	200 y (MHz)			500	1000	
0	-) ReadA	1 ntenna Factor	Cable		y (MHz)	Limit Line	Over Limit	500 Remark	1000	
0	50) ReadA	ntenna	Cable	Preamp Factor	y (MHz)	Line			1000	



Above 1GHz:

Product Name:	Feature Phone	Product Model:	SKY Music
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%
	•		





Product	Name:	Feature Phone				Product M	odel:	SKY Music		
est By:		Yaro			1	est mode	: :	PC mode		
est Fre	quency:	1 GHz ~ 6 GHz				olarizatio	on:	Horizoi	ntal	
est Volt	age:	AC 120/6	0Hz		E	Invironm	ent:	Temp: 24°C Huni: 57		
on Le	vel (dBuV/m)									
80									FCC PART	15 (PK)
70		_								
60										
_	_	_						_	FCC PART	15 (AV)
50								-	5	
40	morrowspeedussedustras					1	a sugardin	3	whendown	ritation for the second
		marklower	have rather	man	www.	wwwww	APPART ANA ALIAN I	4	ľ	
30	an all the second and	Yadan ayr dr. O				Î				
20										
10										
010	00 1200	1500		2000				_	5000	6000
		Paado			requency Preamp		Limit	Over		
	Freq	Level						Limit	Remark	
	MHz	 dBu∛		āB	āā	dBuV/m	dBuV/m	āB		
1	3042.509	47.78	27.22	5.37				-35.12		
0	3042.509	37.67	27.22	5.37					Average	
4	3980.656	47.62 37.61	28.37 28.37	6.11 6.11				-33.71	Average	
2 3 4	SUXII 656		31.52	7.00				-29.31		
4	3980.656 5097.292	48.08	J1. 0Z							
2 3 4 5 6	5097.292 5097.292	48.08 38.81	31.52	7.00		35.42	54.00	-18.58	Average	

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