

# FCC REPORT

**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 F1C

Trade mark: SKY DEVICES

**FCC ID:** 2ABOSSKYF1C

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** 19 Mar., 2018

**Date of Test:** 19 Mar., to 29 Mar., 2018

**Date of report issued:** 30 Mar., 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 Mar., 2018	Original

**Tested by:**

*Zora Lee*

**Date:**

30 Mar., 2018

**Test Engineer**

**Reviewed by:**

*Wimer Zhang*

**Date:**

30 Mar., 2018

**Project Engineer**

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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
<p><i>Remark:</i>  <i>Pass: The EUT complies with the essential requirements in the standard.</i>  <i>N/A: The EUT not applicable of the test item.</i></p>		

## 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:	LUZHOU LOHAS TECHNOLOGY LIMITED
Address:	4th Floor, A Block, RongXinXing Creative Park, BaoAn District, Shenzhen City, GuangDong, PR China

### 5.2 General Description of E.U.T.

Product Name:	Feature Phone
Model No.:	SKY F1C
Power supply:	Rechargeable Li-ion Battery DC3.7V-800mAh
AC adapter:	Model: SKY F1C Input: AC100-240V, 50/60Hz, 0.15A 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

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

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 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: <https://portal.a2la.org/scopepdf/4346-01.pdf>

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

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

## 6 Test results and Measurement Data

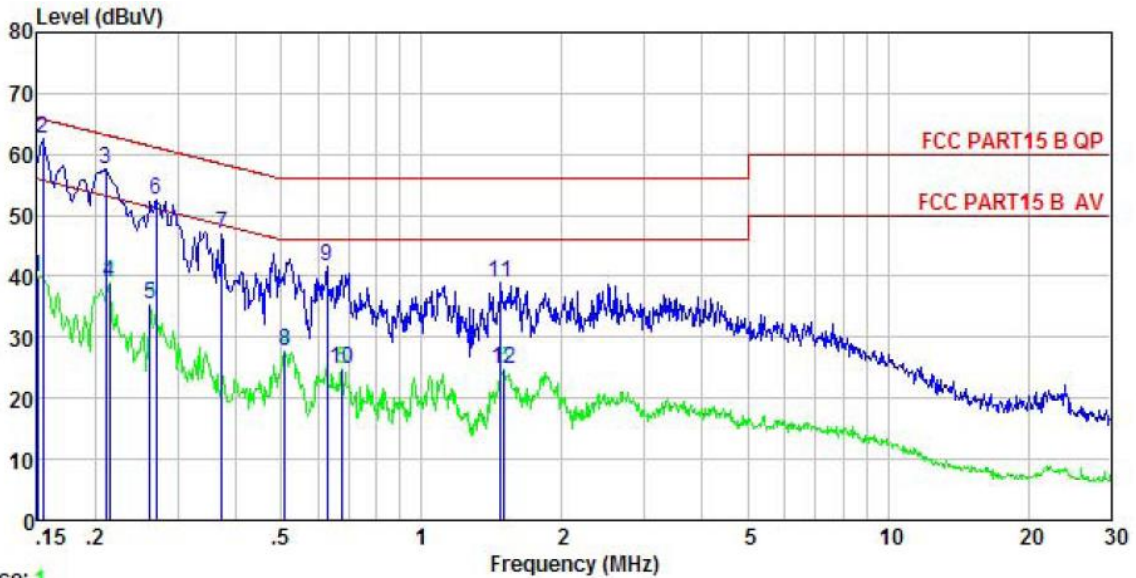
### 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dB $\mu$ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	<p>Remark:  E.U.T: Equipment Under Test  LISN: Line Impedance Stabilization Network  Test table height=0.8m</p>		
Test procedure	<ol style="list-style-type: none"> <li>1. 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.</li> <li>2. 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).</li> <li>3. 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.</li> </ol>		
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:**

Test Phase: Line



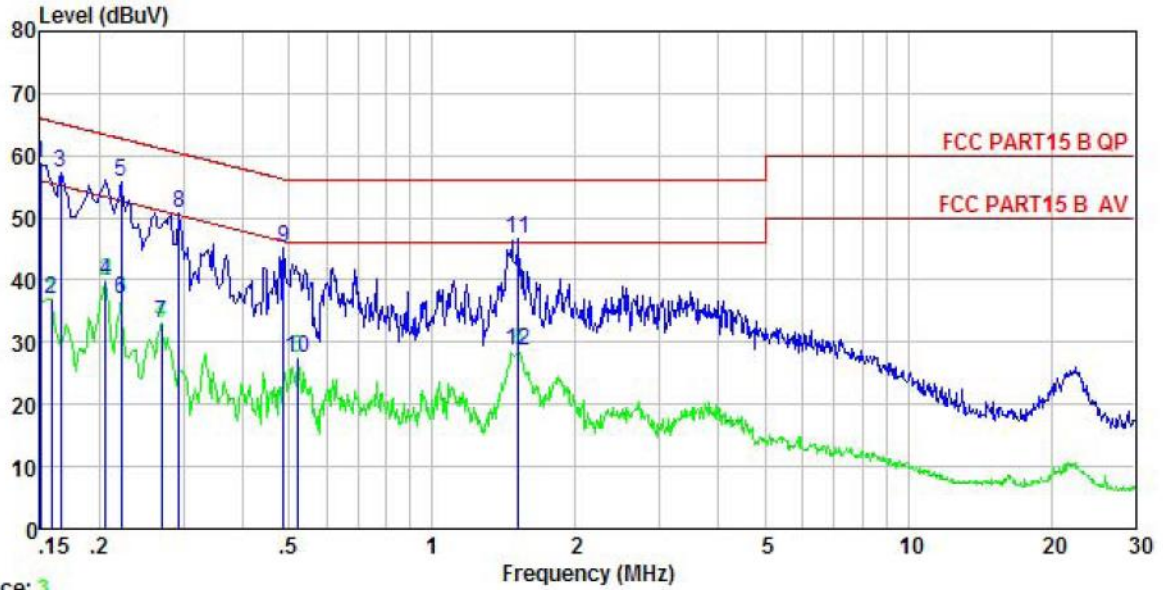
Trace: 1  
 Site : CCIS Shielding Room  
 Condition : FCC PART15 B QP LISN LINE  
 EUT : Feature Phone  
 Model : SKY F1C  
 Test Mode : PC mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa  
 Test Engineer: Zora  
 Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	29.67	-0.56	10.78	39.89	56.00	-16.11	Average
2	0.154	52.36	-0.56	10.78	62.58	65.78	-3.20	QP
3	0.211	47.40	-0.52	10.76	57.64	63.18	-5.54	QP
4	0.214	28.61	-0.52	10.76	38.85	53.05	-14.20	Average
5	0.262	25.27	-0.51	10.75	35.51	51.38	-15.87	Average
6	0.270	42.42	-0.51	10.75	52.66	61.12	-8.46	QP
7	0.373	36.63	-0.50	10.73	46.86	58.43	-11.57	QP
8	0.510	17.45	-0.49	10.76	27.72	46.00	-18.28	Average
9	0.627	31.21	-0.48	10.77	41.50	56.00	-14.50	QP
10	0.675	14.62	-0.48	10.77	24.91	46.00	-21.09	Average
11	1.480	28.59	-0.46	10.92	39.05	56.00	-16.95	QP
12	1.503	14.45	-0.45	10.92	24.92	46.00	-21.08	Average

**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 Phase: Neutral



Trace: 3

Site : CCIS Shielding Room  
 Condition : FCC PART15 B QP LISN NEUTRAL  
 EUT : Feature Phone  
 Model : SKY F1C  
 Test Mode : PC mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa  
 Test Engineer: Zora  
 Remark :

	Read	LISN	Cable	Level	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	48.20	-0.38	10.78	58.60	66.00	-7.40 QP
2	0.158	26.63	-0.37	10.77	37.03	55.56	-18.53 Average
3	0.166	46.97	-0.37	10.77	57.37	65.16	-7.79 QP
4	0.206	29.49	-0.34	10.76	39.91	53.36	-13.45 Average
5	0.222	45.51	-0.33	10.76	55.94	62.74	-6.80 QP
6	0.222	26.34	-0.33	10.76	36.77	52.74	-15.97 Average
7	0.270	22.64	-0.33	10.75	33.06	51.12	-18.06 Average
8	0.294	40.40	-0.32	10.74	50.82	60.41	-9.59 QP
9	0.486	34.65	-0.30	10.76	45.11	56.23	-11.12 QP
10	0.521	16.99	-0.30	10.76	27.45	46.00	-18.55 Average
11	1.519	36.01	-0.27	10.92	46.66	56.00	-9.34 QP
12	1.519	17.93	-0.27	10.92	28.58	46.00	-17.42 Average

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.

## 6.2 Radiated Emission

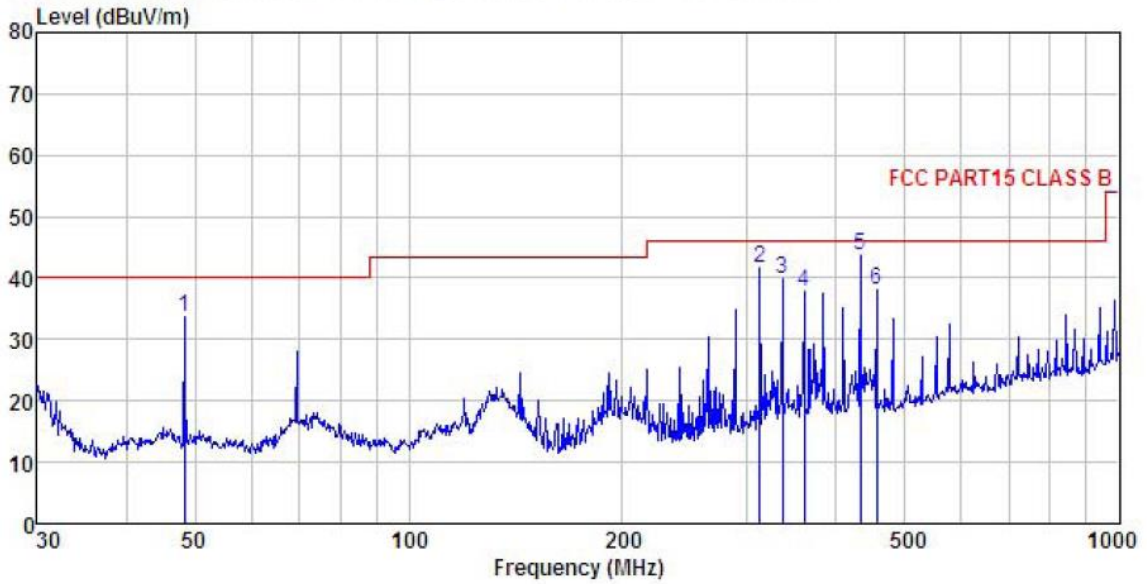
Test Requirement:	FCC Part 15 B Section 15.109				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	Peak Value Average Value
Limit:	Frequency	Limit (dBuV/m @3m)			Remark
	30MHz-88MHz	40.0			Quasi-peak Value
	88MHz-216MHz	43.5			Quasi-peak Value
	216MHz-960MHz	46.0			Quasi-peak Value
	960MHz-1GHz	54.0			Quasi-peak Value
Above 1GHz	54.0			Average Value	
	74.0			Peak Value	
Test setup:	Below 1GHz				
Test setup:	Above 1GHz				

<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. 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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>						
<p>Test environment:</p>	<table border="1"> <tr> <td>Temp.:</td> <td>25 °C</td> <td>Humid.:</td> <td>55%</td> <td>Press.:</td> <td>1 01kPa</td> </tr> </table>	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa
Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa		
<p>Test Instruments:</p>	<p>Refer to section 5.9 for details</p>						
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>						
<p>Test results:</p>	<p>Passed</p>						
<p>Remark:</p>	<p>All of the observed value above 6GHz were the noise floor , which were no recorded</p>						

**Measurement Data:**

**Below 1GHz**

Test Polarization: Horizontal



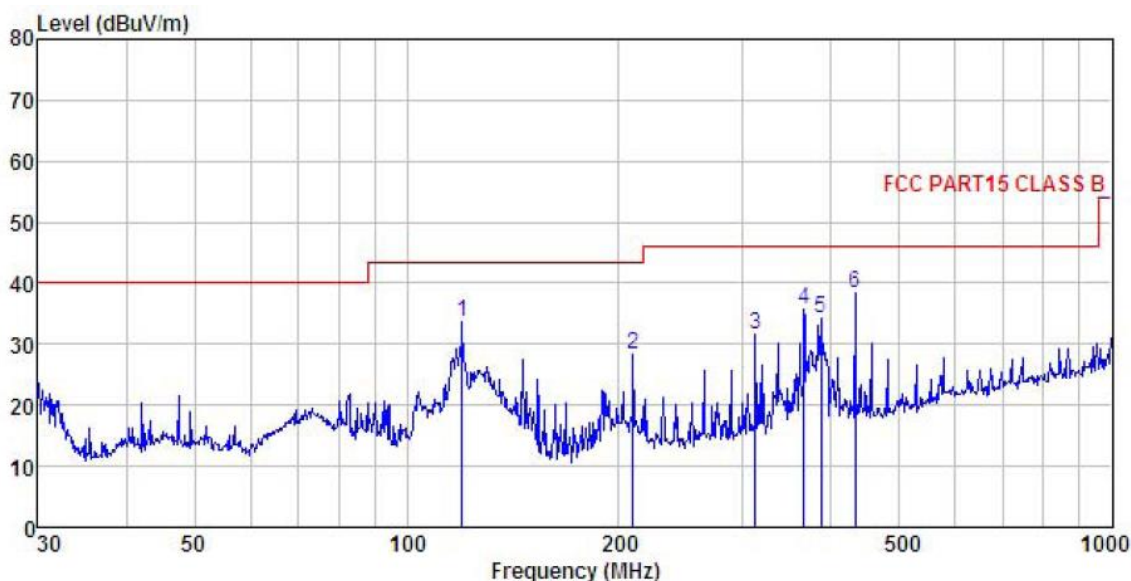
Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL  
 EUT : Feature Phone  
 Model : SKY F1C  
 Test mode : PC mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: Zora  
 REMARK :

	ReadAntenna	Cable Preamp	Limit	Over				
Freq	Level	Loss	Level	Line	Limit Remark			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.332	47.85	14.40	1.27	29.83	33.69	40.00	-6.31 QP
2	312.179	53.66	13.49	2.98	28.48	41.65	46.00	-4.35 QP
3	336.035	51.18	14.10	3.05	28.53	39.80	46.00	-6.20 QP
4	360.448	48.54	14.64	3.10	28.61	37.67	46.00	-8.33 QP
5	432.546	53.64	15.60	3.16	28.84	43.56	46.00	-2.44 QP
6	455.906	48.16	15.58	3.25	28.88	38.11	46.00	-7.89 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.

Test Polarization: Vertical



Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL  
 EUT : Feature Phone  
 Model : SKY F1C  
 Test mode : PC mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: Zora  
 REMARK :

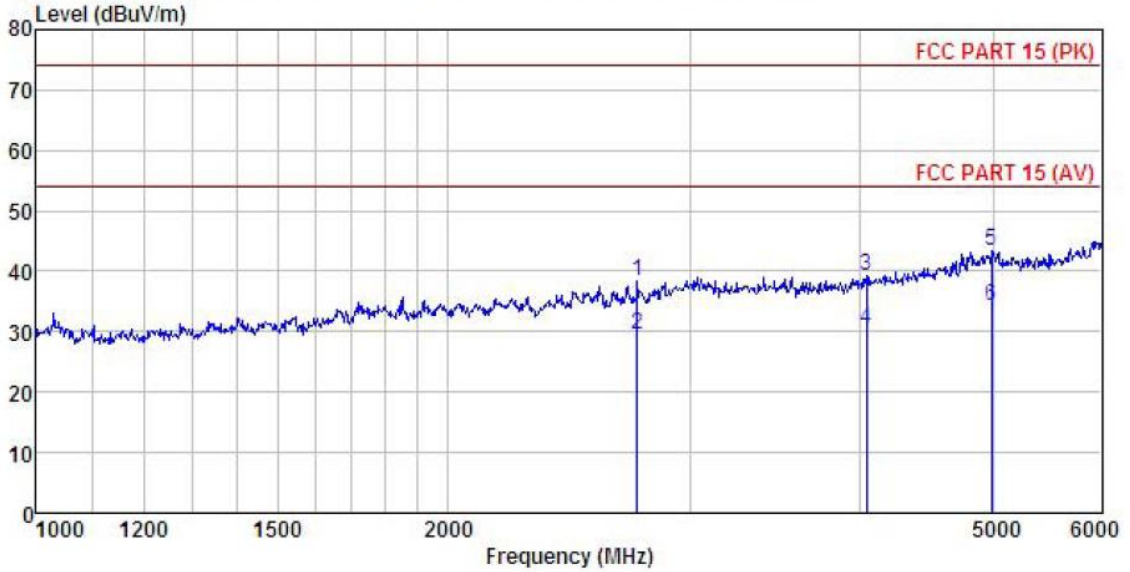
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	119.856	50.55	10.30	2.17	29.39	33.63	43.50	-9.87	QP
2	209.313	42.92	11.30	2.86	28.77	28.31	43.50	-15.19	QP
3	312.179	43.47	13.49	2.98	28.48	31.46	46.00	-14.54	QP
4	365.539	46.54	14.58	3.09	28.63	35.58	46.00	-10.42	QP
5	386.634	45.16	14.66	3.09	28.72	34.19	46.00	-11.81	QP
6	432.546	48.41	15.60	3.16	28.84	38.33	46.00	-7.67	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Above 1GHz**

Test Polarization: Horizontal



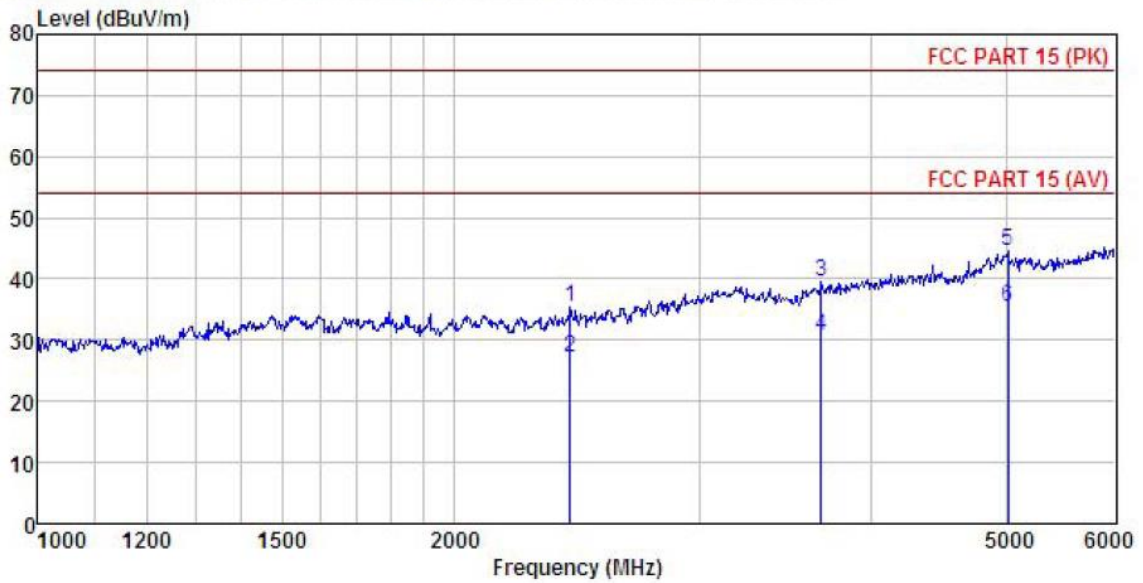
Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL  
 EUT : Feature Phone  
 Model : SKY F1C  
 Test mode : PC mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: Zora  
 REMARK :

	Read	Antenna	Cable	Preamp	Level	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2747.118	48.43	26.45	5.09	41.71	38.26	74.00	-35.74 Peak
2	2747.118	39.62	26.45	5.09	41.71	29.45	54.00	-24.55 Average
3	4038.126	46.42	28.49	6.16	41.81	39.26	74.00	-34.74 Peak
4	4038.126	37.49	28.49	6.16	41.81	30.33	54.00	-23.67 Average
5	4988.864	46.42	31.80	6.93	41.88	43.27	74.00	-30.73 Peak
6	4988.864	37.45	31.80	6.93	41.88	34.30	54.00	-19.70 Average

**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.

Test Polarization: Vertical



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL  
 EUT : Feature Phone  
 Model : SKY F1C  
 Test mode : PC mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: Zora  
 REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2423.297	47.18	25.53	4.73	41.92	35.52	74.00 -38.48 Peak
2	2423.297	38.69	25.53	4.73	41.92	27.03	54.00 -26.97 Average
3	3678.883	47.45	27.84	5.97	41.65	39.61	74.00 -34.39 Peak
4	3678.883	38.58	27.84	5.97	41.65	30.74	54.00 -23.26 Average
5	5015.753	47.73	31.75	6.95	41.89	44.54	74.00 -29.46 Peak
6	5015.753	38.76	31.75	6.95	41.89	35.57	54.00 -18.43 Average

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.