Report No: CCISE190102603

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 F2 Prime

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYF2PRI

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 01 Jan., 2019

Date of Test: 01 Jan., to 05 Mar., 2019

Date of report issued: 12 Mar., 2019

Test Result: PASS *

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.

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





2 Version

Version No.	Date	Description
00	12 Mar., 2019	Original

Tested by: Query (hen Date: 12 Mar., 2019

Test Engineer

Reviewed by: Date: 12 Mar., 2019

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

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:	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 F2 Prime
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter :	Model: SKYF2Prime Input: AC100-240V, 50/60Hz, 150mA 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	g 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)

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 2311 8282 Fax: +86 (0) 755 2311 6366



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 Description of Cable Used

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

5.8 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

5.9 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 2311 8282 Fax: +86 (0) 755 2311 6366





5.10 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	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	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
Spectrum analyzer	Rohde & Schwarz	FSP40	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

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	Version: 6.110919b			



6 Test results and Measurement Data

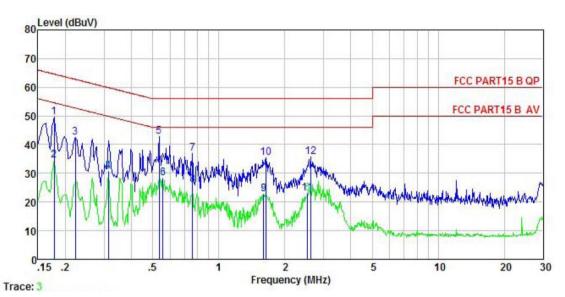
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7		
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Limit	(dBµV)	
Limit	Frequency range (MHz)	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 logarith	m of the frequency.		
Test setup:	Reference Plan	ne		
	AUX Equipment Test table/Insulation plane 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.: 22.5 °C Humid.: 55% Press.: 101kPa			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			
	1			



Measurement data:

Product name:	Feature phone	Product model:	SKY F2 Prime		
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%		



Remark

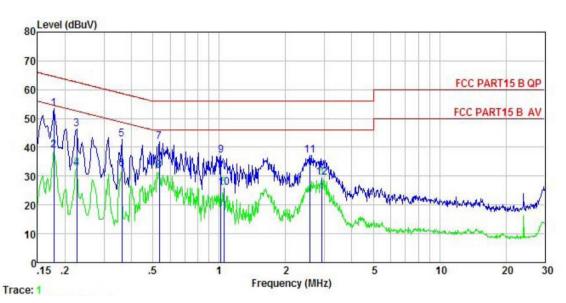
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	<u>dB</u>	₫B	dBu₹	dBu∀	<u>d</u> B	
1	0.178	38.71	0.16	10.77	49.64	64.59	-14.95	QP
2	0.178	23.72	0.16	10.77	34.65	64.59	-29.94	Average
3	0.222	31.64	0.14	10.76	42.54	62.74	-20.20	QP
4	0.313	19.83	0.13	10.74	30.70	59.88	-29.18	Average
2 3 4 5 6 7 8 9	0.535	31.94	0.12	10.76	42.82	56.00	-13.18	QP
6	0.555	17.44	0.12	10.76	28.32	56.00	-27.68	Average
7	0.759	25.83	0.13	10.80	36.76	56.00	-19.24	QP
8	0.759	15.08	0.13	10.80	26.01	56.00	-29.99	Average
9	1.602	11.64	0.14	10.93	22.71	56.00	-33.29	Average
10	1.636	24.24	0.14	10.93	35.31	56.00	-20.69	QP
11	2.540	11.93	0.15	10.94	23.02	56.00	-32.98	Average
12	2.622	24.67	0.16	10.93	35.76	56.00	-20.24	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.



Product name:	Feature phone	Product model:	SKY F2 Prime		
Test by:	Yaro	Test mode:	PC mode		
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral		
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%		



Remark

cemark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	dB	₫B	dBu∀	dBu∜	<u>d</u> B	
1	0.178	41.65	0.95	10.77	53.37	64.59	-11.22	QP
2	0.178	27.13	0.95	10.77	38.85	64.59	-25.74	Average
3	0.226	34.69	0.94	10.75	46.38	62.61	-16.23	QP
2 3 4 5 6 7 8 9	0.226	21.16	0.94	10.75	32.85	62.61	-29.76	Average
5	0.361	31.14	0.97	10.73	42.84	58.69	-15.85	QP
6	0.361	20.79	0.97	10.73	32.49	58.69	-26.20	Average
7	0.535	30.28	0.97	10.76	42.01	56.00	-13.99	QP
8	0.535	20.10	0.97	10.76	31.83	56.00	-24.17	Average
9	1.016	25.25	0.97	10.87	37.09	56.00	-18.91	QP
10	1.049	14.25	0.97	10.88	26.10	56.00	-29.90	Average
11	2.581	25.37	0.99	10.93	37.29	56.00	-18.71	QP
12	2.915	17.47	0.99	10.92	29.38	56.00	-26.62	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

Tadiated Lillission							
Test Requirement:	FCC Part 15 B S	ection 15.1	09				
Test Method:	ANSI C63.4:2014	1					
Test Frequency Range:	30MHz to 6000M	lHz					
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)		
Receiver setup:	Frequency	Detect		RBW	VBW	Remark	
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3MHz	Peak Value	
		RMS		1MHz	3MHz	Average Value	
Limit:	Frequenc		Lim	nit (dBuV/m	@3m)	Remark	
	30MHz-88N			40.0		Quasi-peak Value	
	88MHz-216I			43.5		Quasi-peak Value	
	216MHz-960MHz 46.0 960MHz-1GHz 54.0					Quasi-peak Value	
	90010172-10		54.0 54.0		Quasi-peak Value Average Value		
	Above 1G	Hz					
Test setup:	Above 1GHz Antenna Tower Antenna Antenna Antenna Antenna Ground Plane Above 1GHz						
	Horn Anlenna Tower AE EUT Ground Reference Plane Test Receiver Test Receiver Controller						





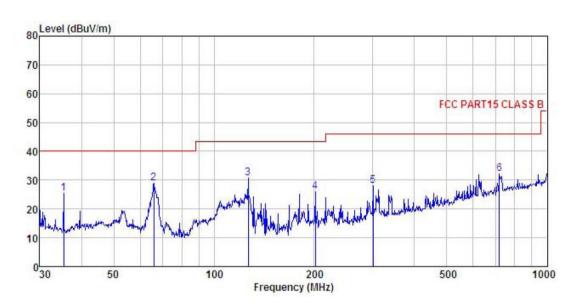
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	ground		the maximum	n value of the	field stren			
	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.							
	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.:	24 °C	Humid.:	57%	Press.:	1 01kPa		
Test Instruments:	Refer to se	ection 5.9 for	details					
Test mode:	Refer to se	ection 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:

Product Name:	Feature phone	Product model:	SKY F2 Prime
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



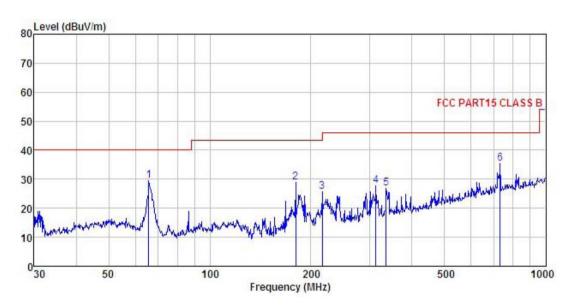
REMARK									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu∀	$-\overline{dB}/\overline{m}$		<u>dB</u>	dBu√/m	dBuV/m	<u>dB</u>	
1	35.375	42.38	11.79	1.07	29.95	25.29	40.00	-14.71	QP
2	66.034	47.06	10.35	1.41	29.75	29.07	40.00	-10.93	QP
1 2 3 4 5	126.772	48.55	9.17	2.25	29.35	30.62	43.50	-12.88	QP
4	201.393	40.40	11.56	2.87	28.82	26.01	43.50	-17.49	QP
5	300.367	39.82	13.61	2.94	28.45	27.92	46.00	-18.08	QP
6	719.200	36.14	20.27	4.25	28.59	32.07	46.00	-13.93	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:	Feature phone	Product model:	SKY F2 Prime
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



REMARK	: Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	
1	65.803	47.43	10.42	1.41	29.75	29.51	40.00	-10.49	QP
2	180.017	45.39	9.80	2.73	28.97	28.95	43.50	-14.55	QP
3	216.024	39.31	12.12	2.85	28.73	25.55	46.00	-20.45	QP
1 2 3 4 5 6	312.179	39.24	13.86	2.98	28.48	27.60	46.00	-18.40	QP
5	334.859	37.92	14.31	3.05	28.53	26.75	46.00	-19.25	QP
6	731.920	39.12	20.58	4.29	28.55	35.44	46.00	-10.56	QP

Remark:

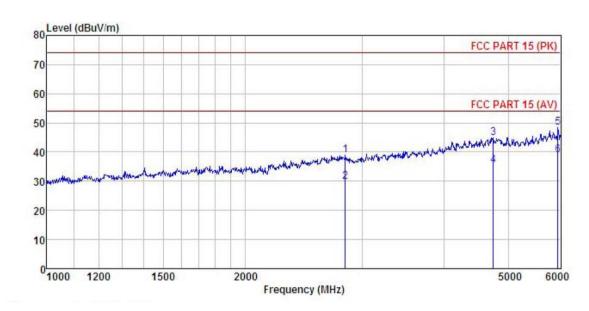
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Above 1GHz:

Product Name:	Feature phone	Product model:	SKY F2 Prime
Test By:	Yaro	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



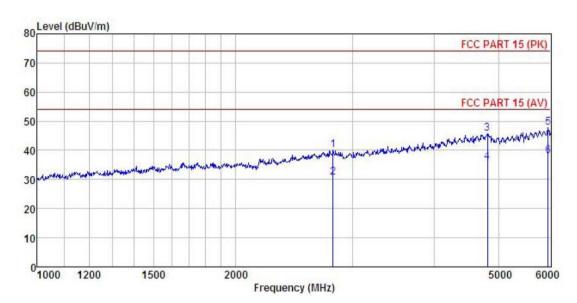
Remarl	K : Freq		Antenna Factor		Preamp Factor	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	dB/m	d₿	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	2832.082	47.26	28.29	5.17	41.63	39.09	74.00	-34.91	Peak
2	2832.082	37.91	28.29	5.17	41.63	29.74	54.00	-24.26	Average
3	4744.751	48.58	31.50	6.83	41.90	45.01	74.00	-28.99	Peak
4	4744.751	38.94	31.50	6.83	41.90	35.37	54.00	-18.63	Average
5	5946.487	49.23	33.21	7.92	42.04	48.32		-25.68	
1 2 3 4 5 6	5946.487	39.81	33.21	7.92	42.04	38.90		-15.10	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.



Product Name:	Feature phone	Product model:	SKY F2 Prime		
Test By:	Yaro	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



Remark	:	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq				Factor	Level			Remark
-	MHz	dBu∜	dB/m	₫B	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	dB	
1	2806.823	48.52	28.24	5.14	41.65	40.25	74.00	-33.75	Peak
2	2806.823	38.93	28.24	5.14	41.65	30.66	54.00	-23.34	Average
3	4813.252	49.21	31.61	6.81	41.82	45.81	74.00	-28.19	Peak
1 2 3 4 5	4813.252	39.48	31.61	6.81	41.82	36.08	54.00	-17.92	Average
5	5946.487	48.59	33.21	7.92	42.04	47.68	74.00	-26.32	Peak
6	5946.487	38.93	33.21	7.92	42.04	38.02	54.00	-15.98	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.