

# FCC REPORT

**Applicant:** SWAGTEK

**Address of Applicant:** 10205 NW 19th St. Suite 101, Miami, FL, 33172

**Equipment Under Test (EUT)**

Product Name: 1.8-inch 2G Bar Phone

Model No.: J8, A8, QUARTZ

Trade mark: LOGIC, iSWAG, UNONU

**FCC ID:** O55185121

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

**Date of sample receipt:** 05 Nov., 2021

**Date of Test:** 06 Nov., to 23 Dec., 2021

**Date of report issued:** 24 Dec., 2021

**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 JYT 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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## 2 Version

Version No.	Date	Description
00	24 Dec., 2021	Original

**Tested by:** Janet Wei **Date:** 24 Dec., 2021  
**Test Engineer**

**Reviewed by:** Winner Zhang **Date:** 24 Dec., 2021  
**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
<b>Remark:</b> 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:	SWAGTEK
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172
Manufacturer/Factory:	SWAGTEK
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172

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

Product Name:	1.8-inch 2G Bar Phone
Model No.:	J8, A8, QUARTZ
Power supply:	Rechargeable Li-ion Battery DC3.7V, 800mAh
Remark:	Model No.: J8, A8, QUARTZ were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being trademark.LOGIC is for A8. iSWAG is for QUARTZ.UNONU is for J8.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 5.3 Test Mode and test samples plans

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

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150kHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

### 5.5 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	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	Length	From	To
N/A				

### 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**  
JianYan Testing Group Shenzhen 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 and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen 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 L15527**  
JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.
- **A2LA - Registration No.: 4346.01**  
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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

JianYan Testing Group Shenzhen Co., Ltd.  
 Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.  
 Tel: +86-755-23118282, Fax: +86-755-23116366  
 Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

## 5.11 Test Instruments list

<b>Radiated Emission:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal.Date (mm-dd-yy)</b>	<b>Cal.Due date (mm-dd-yy)</b>
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		
10m SAC	ETS	RFSD-100-F/A	Q2005	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	04-02-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	04-02-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-08-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-08-2021	04-07-2022
Low Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-05-2022
Low Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-05-2022
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-1	04-02-2021	04-01-2022
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-2	04-02-2021	04-01-2022
Test Software	R&S	EMC32	Version: 10.50.40		

<b>Conducted Emission:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

## 6 Test results and Measurement Data

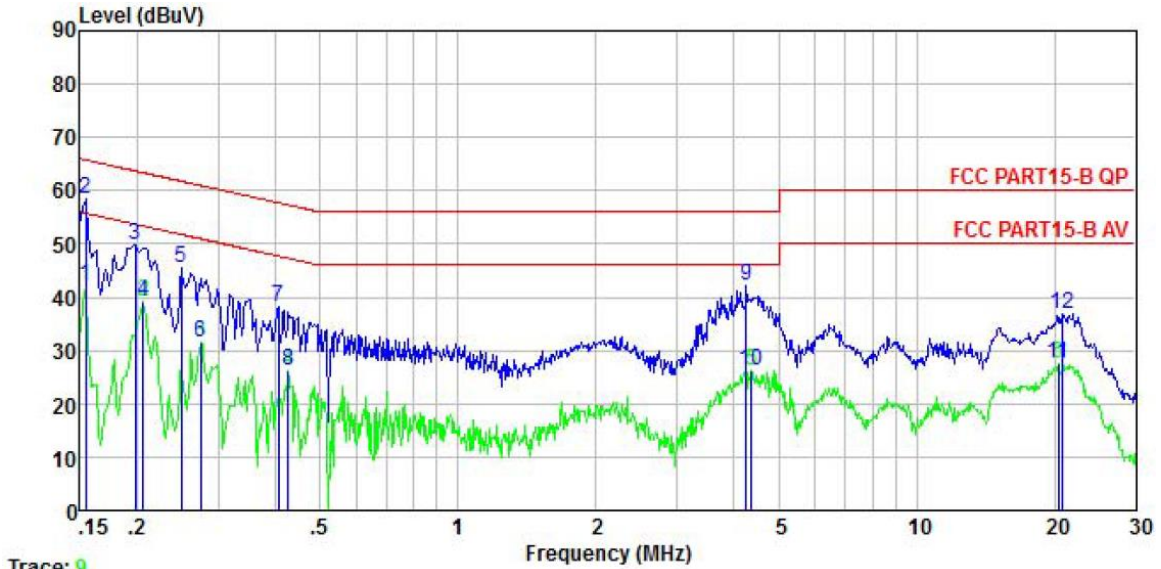
### 6.1 Conducted Emission

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 (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(latest version) on conducted measurement.</li> </ol>		
Test Instruments:	Refer to section 5.11 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		



Measurement data:

Product name:	1.8-inch 2G Bar Phone	Product model:	J8
Test by:	Janet	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



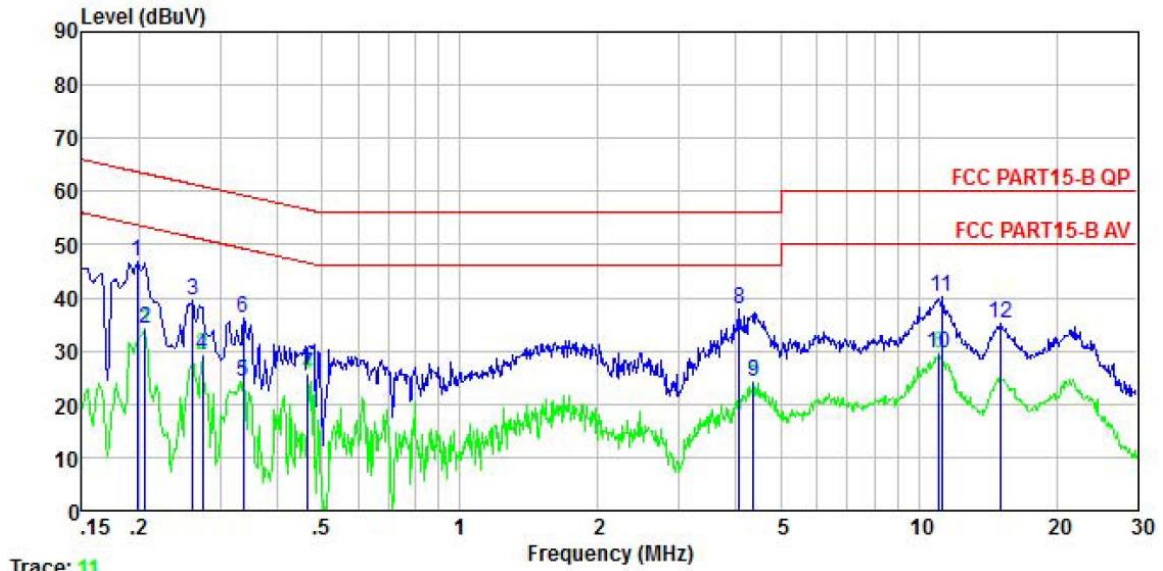
Trace: 9

	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	31.99	10.22	-0.06	0.01	42.16	55.78	-13.62	Average
2	0.154	48.21	10.22	-0.06	0.01	58.38	65.78	-7.40	QP
3	0.198	39.84	10.23	-0.16	0.04	49.95	63.71	-13.76	QP
4	0.206	29.09	10.23	-0.17	0.04	39.19	53.36	-14.17	Average
5	0.249	35.55	10.25	-0.22	0.01	45.59	61.78	-16.19	QP
6	0.274	21.65	10.25	-0.24	0.02	31.68	50.98	-19.30	Average
7	0.406	27.38	10.28	0.36	0.04	38.06	57.73	-19.67	QP
8	0.426	15.65	10.28	0.19	0.03	26.15	47.33	-21.18	Average
9	4.247	31.65	10.40	-0.01	0.08	42.12	56.00	-13.88	QP
10	4.361	15.91	10.40	0.00	0.08	26.39	46.00	-19.61	Average
11	20.377	15.71	10.91	0.90	0.19	27.71	50.00	-22.29	Average
12	20.704	24.95	10.92	0.90	0.18	36.95	60.00	-23.05	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.

<b>Product name:</b>	1.8-inch 2G Bar Phone	<b>Product model:</b>	J8
<b>Test by:</b>	Janet	<b>Test mode:</b>	PC mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz	<b>Environment:</b>	Temp: 22.5°C Huni: 55%



Trace: 11

	Read Freq	Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.198	36.49	10.22	0.00	0.04	46.75	63.71	-16.96	QP
2	0.206	24.01	10.22	0.00	0.04	34.27	53.36	-19.09	Average
3	0.262	29.13	10.24	0.01	0.01	39.39	61.38	-21.99	QP
4	0.274	19.05	10.24	0.01	0.02	29.32	50.98	-21.66	Average
5	0.337	14.13	10.26	-0.02	0.02	24.39	49.27	-24.88	Average
6	0.337	25.99	10.26	-0.02	0.02	36.25	59.27	-23.02	QP
7	0.466	15.18	10.28	0.00	0.03	25.49	46.58	-21.09	Average
8	4.070	26.78	10.38	0.53	0.08	37.77	56.00	-18.23	QP
9	4.361	13.33	10.39	0.57	0.08	24.37	46.00	-21.63	Average
10	11.080	16.92	10.62	1.81	0.11	29.46	50.00	-20.54	Average
11	11.257	27.59	10.63	1.88	0.11	40.21	60.00	-19.79	QP
12	15.146	21.39	10.73	3.04	0.14	35.30	60.00	-24.70	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.

## 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
RMS		1MHz	3MHz	Average Value	
Limit:	Frequency	Limit (dBuV/m @10m)		Remark	
	30MHz-88MHz	30.0		Quasi-peak Value	
	88MHz-216MHz	33.5		Quasi-peak Value	
	216MHz-960MHz	36.0		Quasi-peak Value	
	960MHz-1GHz	44.0		Quasi-peak Value	
	Frequency	Limit (dBuV/m @3m)		Remark	
Above 1GHz	54.0		Average Value		
	74.0		Peak Value		
Test setup:	<p>Below 1GHz</p>				
	<p>Above 1GHz</p>				
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter chamber (below 1GHz) or 3 meter chamber (above 1GHz). The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 10 meters (below 1GHz) or 3 meters (above 1GHz) away from the interference-receiving antenna, which was mounted on</li> </ol>				

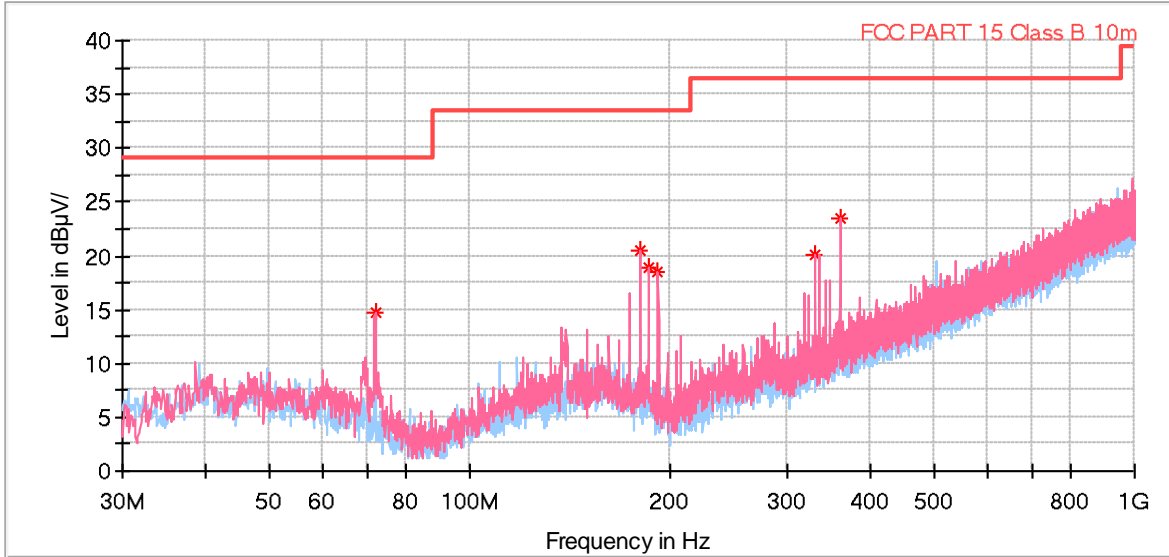
	<p>the top of a variable-height antenna tower.</p> <ol style="list-style-type: none"> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the 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>
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:

Below 1GHz:

Product Name:	1.8-inch 2G Bar Phone	Product Model:	J8
Test By:	Janet	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

Full Spectrum



Frequency <sup>↓</sup> (MHz) <sup>⊖</sup>	MaxPeak <sup>↓</sup> (dB µ V/m) <sup>⊖</sup>	Limit <sup>↓</sup> (dB µ V/m) <sup>⊖</sup>	Margin <sup>↓</sup> (dB) <sup>⊖</sup>	Height <sup>↓</sup> (cm) <sup>⊖</sup>	Pol <sup>⊖</sup>	Azimuth <sup>↓</sup> (deg) <sup>⊖</sup>	Corr. <sup>↓</sup> (dB/m) <sup>⊖</sup>
72.001000 <sup>⊖</sup>	14.68 <sup>⊖</sup>	29.00 <sup>⊖</sup>	14.32 <sup>⊖</sup>	100.0 <sup>⊖</sup>	V <sup>⊖</sup>	12.0 <sup>⊖</sup>	-18.7 <sup>⊖</sup>
179.962000 <sup>⊖</sup>	20.56 <sup>⊖</sup>	33.50 <sup>⊖</sup>	12.94 <sup>⊖</sup>	100.0 <sup>⊖</sup>	V <sup>⊖</sup>	43.0 <sup>⊖</sup>	-17.4 <sup>⊖</sup>
185.976000 <sup>⊖</sup>	18.86 <sup>⊖</sup>	33.50 <sup>⊖</sup>	14.64 <sup>⊖</sup>	100.0 <sup>⊖</sup>	V <sup>⊖</sup>	16.0 <sup>⊖</sup>	-17.6 <sup>⊖</sup>
191.990000 <sup>⊖</sup>	18.57 <sup>⊖</sup>	33.50 <sup>⊖</sup>	14.93 <sup>⊖</sup>	100.0 <sup>⊖</sup>	V <sup>⊖</sup>	109.0 <sup>⊖</sup>	-17.9 <sup>⊖</sup>
329.924000 <sup>⊖</sup>	20.05 <sup>⊖</sup>	36.40 <sup>⊖</sup>	16.35 <sup>⊖</sup>	100.0 <sup>⊖</sup>	V <sup>⊖</sup>	6.0 <sup>⊖</sup>	-13.5 <sup>⊖</sup>
359.994000 <sup>⊖</sup>	23.45 <sup>⊖</sup>	36.40 <sup>⊖</sup>	12.95 <sup>⊖</sup>	100.0 <sup>⊖</sup>	V <sup>⊖</sup>	177.0 <sup>⊖</sup>	-12.5 <sup>⊖</sup>

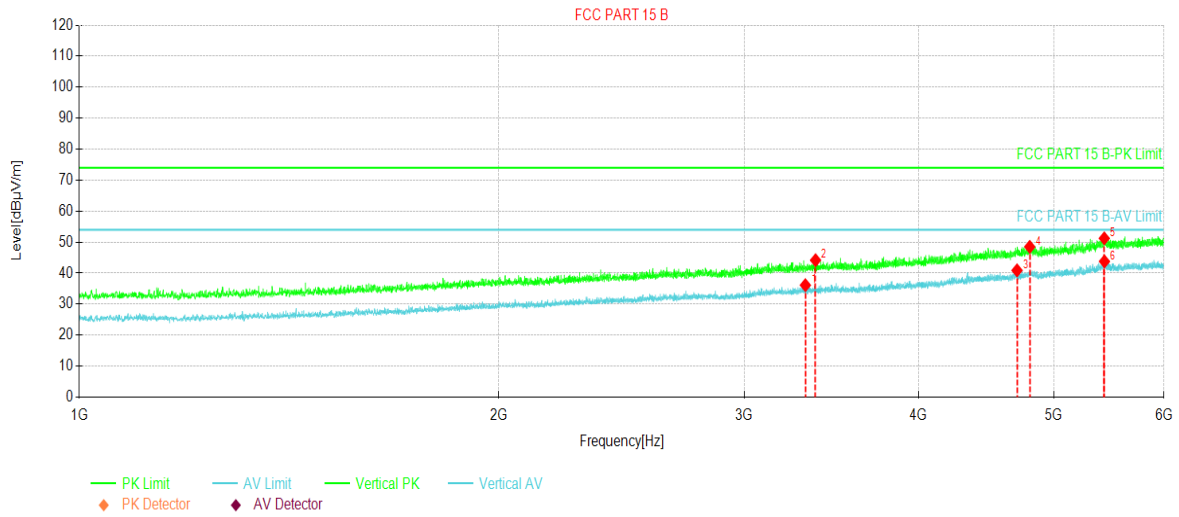
Remark:

1. Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss – Preamplifier Factor).
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Above 1GHz:

<b>Product Name:</b>	1.8-inch 2G Bar Phone	<b>Product Model:</b>	J8
<b>Test By:</b>	Janet	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	1 GHz ~ 6 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%

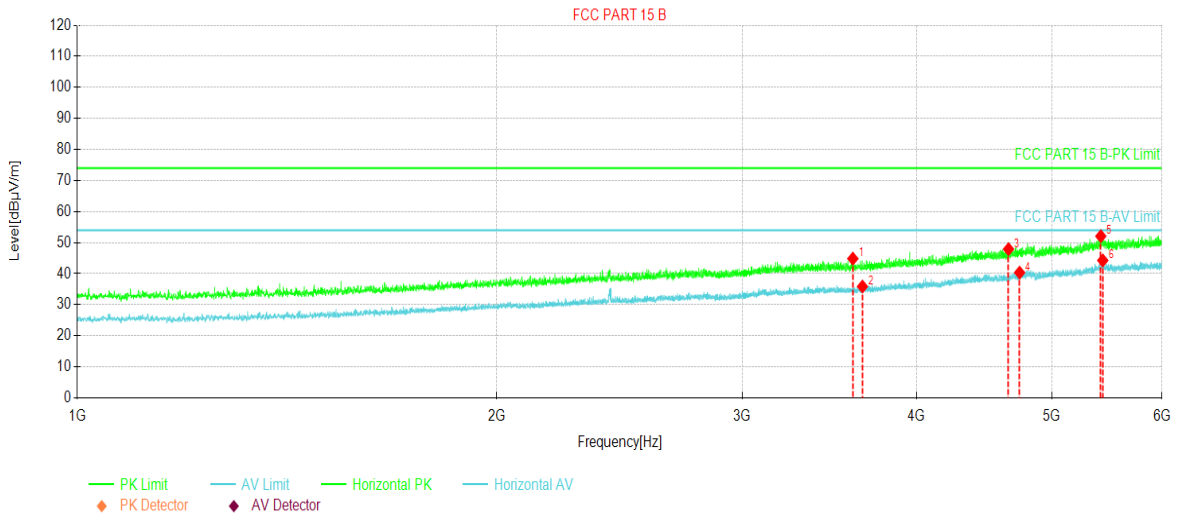


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	3318.23	52.16	36.12	-16.04	54.00	17.88	AV	Vertical
2	3374.23	60.03	44.17	-15.86	74.00	29.83	PK	Vertical
3	4706.87	51.35	40.90	-10.45	54.00	13.10	AV	Vertical
4	4806.88	58.55	48.49	-10.06	74.00	25.51	PK	Vertical
5	5436.44	57.84	51.24	-6.60	74.00	22.76	PK	Vertical
6	5437.94	50.39	43.79	-6.60	54.00	10.21	AV	Vertical

Remark:

- Final Level = Receiver Read level + Factor. (Antenna Factor + Cable Loss – Pre-amplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

<b>Product Name:</b>	1.8-inch 2G Bar Phone	<b>Product Model:</b>	J8
<b>Test By:</b>	Janet	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	1 GHz ~ 6 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	3600.76	60.22	44.84	-15.38	74.00	29.16	PK	Horizontal
2	3658.26	51.03	35.85	-15.18	54.00	18.15	AV	Horizontal
3	4656.36	58.62	47.90	-10.72	74.00	26.10	PK	Horizontal
4	4742.37	50.65	40.33	-10.32	54.00	13.67	AV	Horizontal
5	5423.44	58.67	52.07	-6.60	74.00	21.93	PK	Horizontal
6	5440.94	50.86	44.26	-6.60	54.00	9.74	AV	Horizontal

**Remark:**

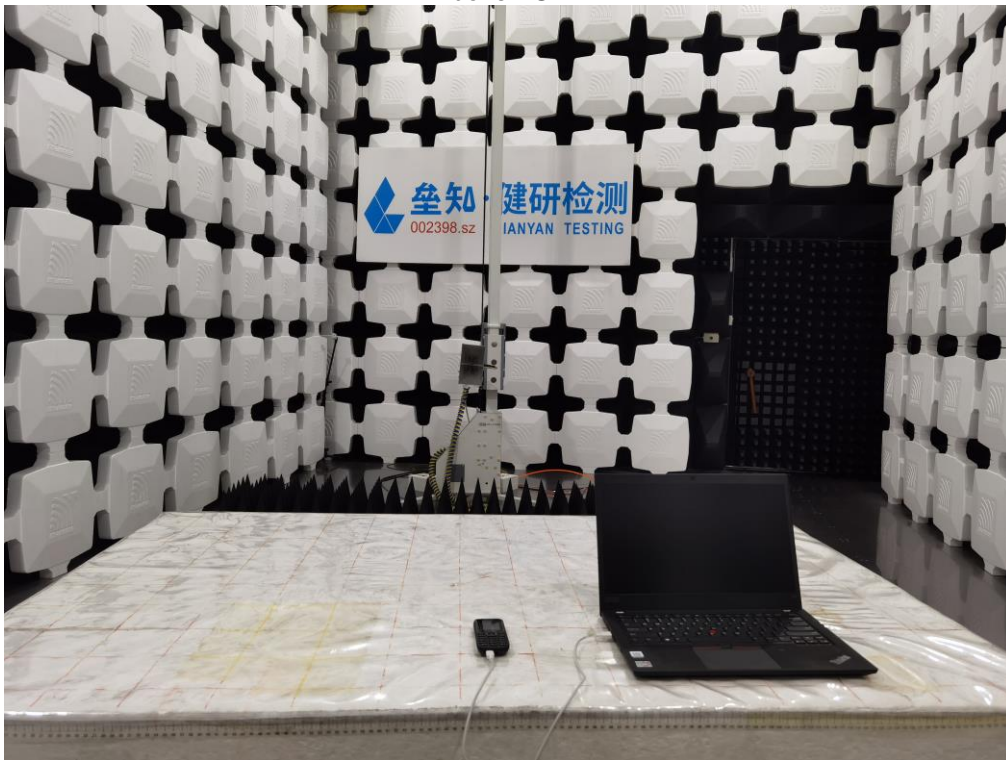
- Final Level = Receiver Read level + Factor. (Antenna Factor + Cable Loss – Preamplifier Factor).
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

## 7 Test Setup Photo

Radiated Emission  
Below 1GHz



Above 1GHz





**Conducted Emission**

## 8 EUT Constructional Details

Reference to the test report No.: JYTSZB-R12-2102456.

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