

Report No.: JYTSZ-R01-2200297

# FCC EMC Test Report

Applicant:	TECNO MOBILE LIMITED		
Address of Applicant:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31- 35 SHAN MEI STREET FOTAN NT HONGKONG		
Equipment Under Test (E	UT)		
Product Name:	Mobile Phone		
Model No.:	LG8n		
Trade Mark:	TECNO		
FCC ID:	2ADYY-LG8N		
Applicable Standards:	FCC CFR Title 47 Part 15B		
Date of Sample Receipt:	01 Jun., 2022		
Date of Test:	02 Jun., to 23 Jun., 2022		
Date of report Issued:	24 Jun., 2022		
Test Result:	PASS		

Tested by:	Mike OU Test Engineer	Date:	24 Jun., 2022
Reviewed by:	Reoject Engineer	Date:	24 Jun., 2022
Approved by:	社社社会議专用章 一 Manager	Date:	24 Jun., 2022

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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## 2 Version

Version No.	Date	Description
00	24 Jun., 2022	Original



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# 4 General Information

## 4.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

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

Product Name:	Mobile Phone	
Model No.:	LG8n	
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 5850mAh	
AC Adapter:	Model: U450TSA	
	Input: AC100-240V, 50/60Hz, 1.8A	
	Output: DC 5.0V, 2.0A or 11.0V, 4.1A MAX	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

## 4.3 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.



## 4.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

## 4.5 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

## 4.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))		
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB		
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB		
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB		
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB		

**Note:** All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

## 4.7 Additions to, Deviations, or Exclusions from the Method

#### No

## 4.8 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: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a>

### 4.9 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://jyt.lets.com



## 4.10 Test Instruments List

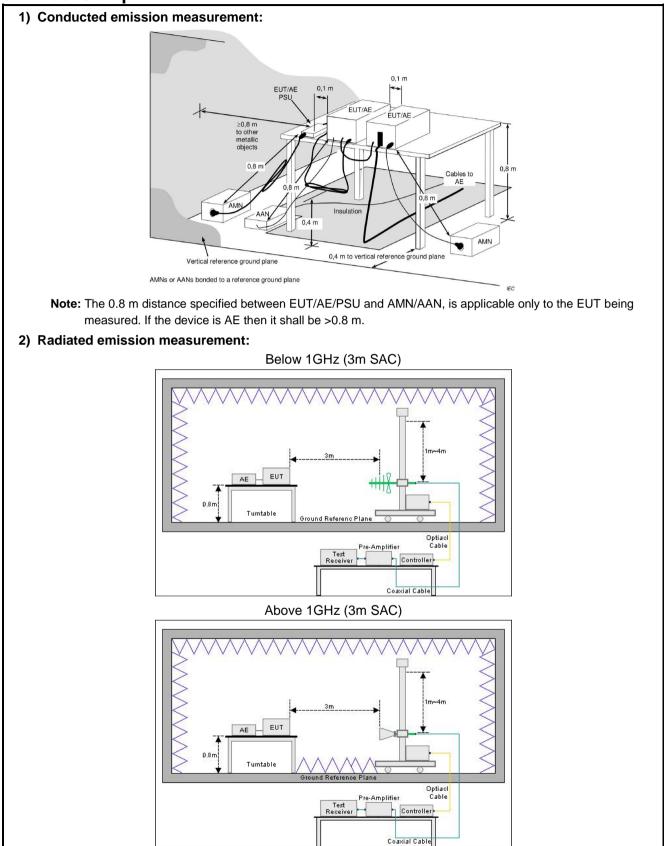
Radiated Emission(3m SAC):							
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024		
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023		
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023		
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023		
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023		
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023		
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023		
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023		
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023		
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N	/A		
Test Software	Tonscend	TS+	Version: 3.0.0.1				

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	10-21-2021	10-20-2022	
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-24-2022	02-23-2023	
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	03-30-2022	03-29-2023	
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-24-2022	02-23-2023	
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A		
Test Software	AUDIX	E3	V	Version: 6.110919b		



# 5 Measurement Setup and Procedure

## 5.1 Test Setup



Project No.: JYTSZR2206004



## 5.2 Test Procedure

Test method	Test step
Conducted emission	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>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 on conducted measurement.</li> </ol>
Radiated emission	<ul> <li>For below 1GHz: <ol> <li>The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> </li> <li>For above 1GHz: <ol> <li>The EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> </ol> </li> </ul>
	<ul> <li>3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4</li> </ul>



# 6 Test Results

## 6.1 Summary

#### 6.1.1 Clause and data summary

Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 6.2	Pass
Radiated Emission	Part 15.109	See Section 6.3	Pass
<b>Remark:</b> 1. The EUT is a <b>Class B</b> digital de	evice.		

2. Pass: The EUT complies with the essential requirements in the standard.

3. N/A: Not Applicable.

Test Method: ANSI C63.4:2014

#### 6.1.2 Test Limit

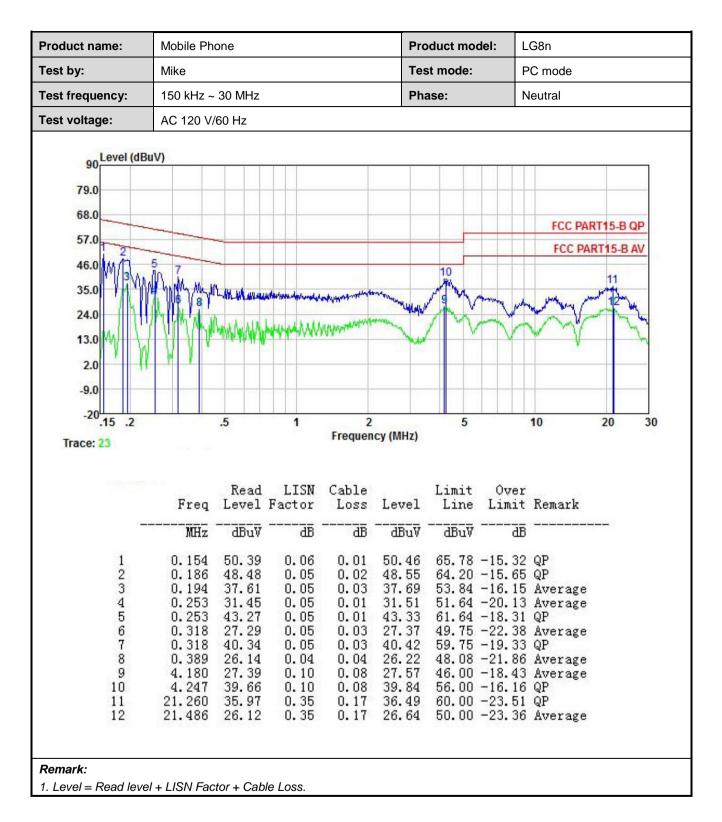
Frequency (MHz) 0.15 – 0.5 0.5 – 5 5 – 30 Note 1: The limit leve	Class A Li Quasi-Peak 79 73 73	mit (dBµV) Average 66 60	Class B Lin Quasi-Peak 66 to 56 Note 1	mit (dBµV) Average 56 to 46 Note 1
0.15 - 0.5 0.5 - 5 5 - 30 Note 1: The limit leve	79 73	66 60	66 to 56 Note 1	9
0.5 – 5 5 – 30 Note 1: The limit leve	73	60		EC to AC Note 1
5 – 30 Note 1: The limit leve			50	50 10 40 1010 1
Note 1: The limit leve	73		56	46
		60	60	50
Note 2: The more str	el in dBµV decrease ringent limit applies	•		icy.
_	Class A Lin	nit (dBµV/m)	Class B Lim	it (dBµV/m)
(MHz)	Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m
30 – 88	49.0	39.0	40.0	30.0
88 – 216	53.5	43.5	43.5	33.5
216 – 960	56.0	46.0	46.0	36.0
960 – 1000	60.0	50.0	54.0	44.0
Note: The more strin	gent limit applies at	transition frequenc	ies.	
Frequency	Class A Limit (	Class A Limit (dBµV/m) @ 3m		dBµV/m) @ 3m
Frequency	Average	Peake	Average	Peake
Above 1 GHz	60.0	80.0	54.0	74.0
	30 – 88 88 – 216 216 – 960 960 – 1000 Note: The more strin Frequency Above 1 GHz	Frequency (MHz)         Quasi-Peak @ 3m           30 - 88         49.0           88 - 216         53.5           216 - 960         56.0           960 - 1000         60.0           Note: The more stringent limit applies at Frequency         Class A Limit ( Average           Above 1 GHz         60.0	(MHz)         Quasi-Peak @ 3m         Quasi-Peak @ 10m           30 - 88         49.0         39.0           88 - 216         53.5         43.5           216 - 960         56.0         46.0           960 - 1000         60.0         50.0           Note: The more stringent limit applies at transition frequence         Class A Limit (dBµV/m) @ 3m           Frequency         Average         Peake	Frequency (MHz)         Quasi-Peak @ 3m         Quasi-Peak @ 10m         Quasi-Peak @ 3m           30 - 88         49.0         39.0         40.0           88 - 216         53.5         43.5         43.5           216 - 960         56.0         46.0         46.0           960 - 1000         60.0         50.0         54.0           Note: The more stringent limit applies at transition frequencies.           Frequency           Class A Limit (dBµV/m) @ 3m         Class B Limit (model)           Above 1 GHz         60.0         80.0         54.0



## 6.2 Conducted Emission

Product name:	Mobile Ph	one			Pro	oduct model	: L	G8n	
est by:	Mike				Tes	st mode:	Р	C mode	
est frequency:	150 kHz ~	30 MHz			Pha	ase:	Li	ne	
est voltage:	AC 120 V/	/60 Hz			•				
90 Level (dB 79.0 68.0 57.0 2 46.0 35.0 24.0 13.0 2.0				et week all weeks and and a	Contraction of the second seco	9 10 10	~		RT15-B QP RT15-B AV
-9.0 -20.15 .2 Trace: 21		.5	1	2 Frequen	cy (MHz)	5		10	20 3







# 6.3 Radiated Emission

#### Below 1GHz:

	ne:	Mobile Phone			Prod	uct Model:	LG8	n	
Test By:		Vike			Test	Test mode:		PC mode	
t Frequei	ncy:	30 MHz ~ 1 GH	Ηz		Polar	Polarization: V		/ertical	
t Voltage	:	AC 120V/60Hz							
120 110 100 90 80 [uu/\110 90 60 60 50				FCC PART 15 B (	CLASS B		FCC PAR	T 15 B CLASS B-QP Limit	
40 30 20 10 30M	QP Limit QP Detector	- Vertical PK	100M	Frequency[	Hz]			10	
30 20 10 0 30M	QP Limit	Vertical PK	100M	Frequency		Margin			
30 20 10 30M	QP Limit QP Detector	— Vertical PK			Hz]		Trace	Polarity	
30 20 10 0 30M	QP Limit QP Detector ected Dat Freq.		Level	Factor	Hz]	Margin	Trace		
30 20 10 0 30M	QP Limit     QP Detector  ected Dat Freq. [MHz]		Level [dBµV/m]	Factor [dB]	Hz] Limit [dBµV/m]	Margin [dB]		Polarity	
30 20 10 30M <b>Susp</b> NO.	QP Limit QP Detector  ected Dat Freq. [MHz] 48.6259		Level [dBµV/m] 18.89	Factor [dB] -12.78	Limit [dBµV/m] 40.00	Margin [dB] 21.11	PK	Polarity Vertical	
30 20 10 30M Susp NO. 1 20 0 NO.	QP Limit     QP Detector     QP Detector     Freq.     [MHz]     48.6259     66.6697		Level [dBµV/m] 18.89 21.30	Factor [dB] -12.78 -15.53	Limit [dBuV/m] 40.00 40.00	Margin [dB] 21.11 18.70	PK PK	Polarity Vertical Vertical	
30 20 0 30M 10 0 30M 30M <b>Susp</b> NO. 1 2 3	QP Limit     QP Detector     QP Detector     Greq.     [MHz]     48.6259     66.6697     107.995		Level [dBµV/m] 18.89 21.30 22.23	Factor [dB] -12.78 -15.53 -14.73	Limit [dBµV/m] 40.00 40.00 43.50	Margin [dB] 21.11 18.70 21.27	PK PK PK	Polarity Vertical Vertical Vertical	
30 20 10 0 30M 30M 30M 30M	• QP Limit • QP Detector ected Dat Freq. [MHz] 48.6259 66.6697 107.995 137.680		Level [dBuV/m] 18.89 21.30 22.23 19.44	Factor [dB] -12.78 -15.53 -14.73 -18.30	Limit [dBµV/m] 40.00 40.00 43.50 43.50	Margin [dB] 21.11 18.70 21.27 24.06	PK PK PK PK	Polarity Vertical Vertical Vertical Vertical	



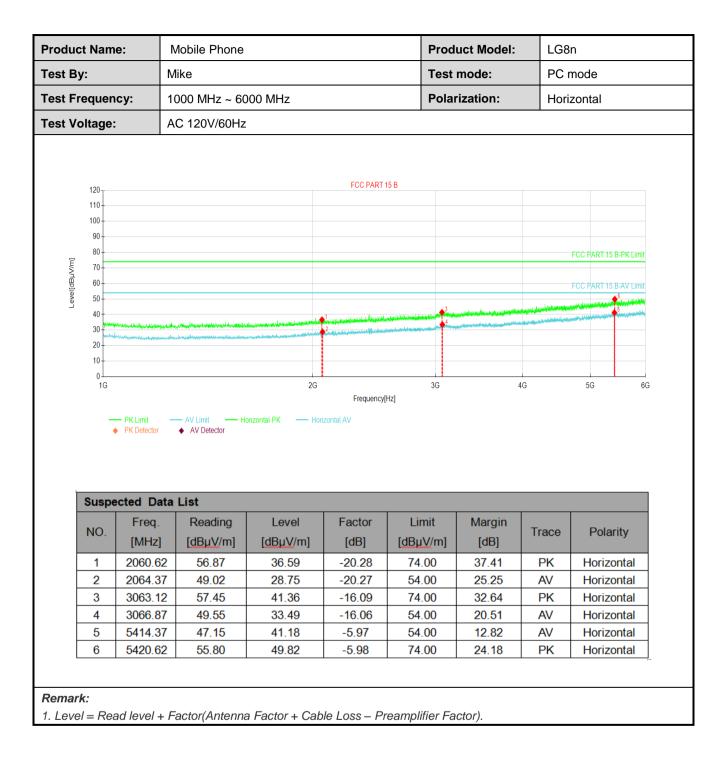
roduct Name: est By:		Mobile Pho	lie		Flou	Product Model: Test mode:		LG8n PC mode	
		Mike			Test				
t Freque	ncy:	30 MHz ~ 1	GHz		Pola	Polarization:		Horizontal	
t Voltage	:	AC 120V/60	Hz						
120 110 100 90 80 [Lu] 70 [Lu] 70 60 60 50				FCC PART 15 B	CLASS B		FCC PAR	IT 15 B CLASS B-QP Limit	
40 30 20 10 30M	QP Limit QP Detector	- Horizontal PK	100M	Frequency	(HZ)			16	
30 20 10 30M	- QP Limit	- Horizontal PK						10	
30 20 10 30M	QP Limit QP Detector	- Horizontal PK	Level		(Hz)	Margin [dB]	Trace	Polarity	
30 20 10 30M	QP Limit ◆ QP Detector ected Dat Freq.	Horzontal PK	Level	Frequency	Limit	-	Trace		
30 20 10 0 30M	QP Limit QP Detector ected Dat Freq. [MHz]	Horizontal PK	Level	Frequency Factor [dB]	Limit [dBµV/m]	[dB]		Polarity	
30 20 10 30M Susp NO. 1	QP Limit ♦ QP Detector ected Dat Freq. [MHz] 48.6259	Horizontal PK	Level ] [dBµV/m] 20.10	Frequency Factor [dB] -12.78	Limit [dBµV/m] 40.00	[dB] 19.90	PK	Polarity Horizontal	
30 20 10 30M Susp NO. 1 2	QP Limit     QP Detector     QP Detector     Freq.     [MHz]     48.6259     67.1547	Horizontal PK	Level [dBµV/m] 20.10 17.62	Frequency Frequency Factor [dB] -12.78 -15.75	Limit [dBµV/m] 40.00 40.00	[dB] 19.90 22.38	PK PK	Polarity Horizontal Horizontal	
30 20 10 30M Susp NO. 1 2 3	QP Limit QP Detector ected Dat Freq. [MHz] 48.6259 67.1547 137.389	Horizontal PK	Level [dBµV/m] 20.10 17.62 19.65	Frequency Frequency Factor [dB] -12.78 -15.75 -18.29	Limit [dBµV/m] 40.00 40.00 43.50	[dB] 19.90 22.38 23.85	PK PK PK	Polarity Horizontal Horizontal Horizontal	



#### Above 1GHz:

	ne:	Mobile Phone			Prod	uct Model:	LG8	n
By:		Vike			Test	mode:	PC n	node
Freque	ncy:	1000 MHz ~ 60	000 MHz		Polar	ization:	Verti	cal
Voltage	:	AC 120V/60Hz						
120 110 100 90 80 [Ly, 70 60 60 50				FCC PART	5 B			FCC PART 15 B-PK Lim FCC PART 15 B-AV Lim
40 30 20 10 10 1G	PK Limit	AV Limit V	2G ertical PK — Vertica	2 providence of the second sec	3G Hz]		G	56
40 30 20 10 10 16		<ul> <li>AV Detector</li> </ul>					6	5G
40 30 20 10 10 16	PK Detector	<ul> <li>AV Detector</li> </ul>				Margin [dB]	G	5G Polarity
40 30 10 0 16	<ul> <li>PK Detector</li> <li>ected Dat</li> <li>Freq.</li> <li>[MHz]</li> <li>2069.37</li> </ul>	AV Detector	ertical PK — Vertica	Factor [dB] -20.25	Hz] Limit	Margin [dB] 36.33		
40 30 20 10 0 16 Susp NO.	<ul> <li>PK Detector</li> <li>ected Dat</li> <li>Freq.</li> <li>[MHz]</li> <li>2069.37</li> <li>2071.25</li> </ul>	<ul> <li>AV Detector</li> <li>a List</li> <li>Reading         [dBµV/m]</li> <li>57.92</li> <li>49.09</li> </ul>	ertical PK — Vertica Level [dBµV/m] 37.67 28.85	Factor [dB] -20.25 -20.24	Limit [dBµV/m] 74.00 54.00	Margin [dB] 36.33 25.15	Trace	Polarity
40 30 20 10 0 16 <b>Susp</b> NO. 1	<ul> <li>PK Detector</li> <li>ected Dat</li> <li>Freq.</li> <li>[MHz]</li> <li>2069.37</li> </ul>	AV Detector	ertical PK — Vertica Level [dBµV/m] 37.67	Factor [dB] -20.25	Limit [dBµV/m] 74.00	Margin [dB] 36.33	Trace	Polarity Vertical
40 30 10 10 16 <b>Susp</b> NO. 1 2	<ul> <li>PK Detector</li> <li>ected Dat</li> <li>Freq.</li> <li>[MHz]</li> <li>2069.37</li> <li>2071.25</li> <li>3113.75</li> <li>3117.50</li> </ul>	<ul> <li>AV Detector</li> <li>a List</li> <li>Reading         [dBµV/m]</li> <li>57.92</li> <li>49.09</li> </ul>	ertical PK — Vertica Level [dBµV/m] 37.67 28.85	Factor [dB] -20.25 -20.24	Limit [dBµV/m] 74.00 54.00	Margin [dB] 36.33 25.15	Trace PK AV AV PK	Polarity Vertical Vertical
40 30 10 0 16 Susp NO. 1 2 3	<ul> <li>PK Detector</li> <li>ected Dat</li> <li>Freq.</li> <li>[MHz]</li> <li>2069.37</li> <li>2071.25</li> <li>3113.75</li> </ul>	<ul> <li>AV Detector</li> <li>a List</li> <li>Reading         [dBµV/m]</li> <li>57.92</li> <li>49.09</li> <li>48.98</li> </ul>	Level [dBµV/m] 37.67 28.85 33.23	Factor [dB] -20.25 -20.24 -15.75	Limit [dBµV/m] 74.00 54.00 54.00	Margin [dB] 36.33 25.15 20.77	Trace PK AV AV	Polarity Vertical Vertical Vertical





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