

# FCC 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

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: LE7

Trade mark: TECNO

**FCC ID:** 2ADYY-LE7

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

**Date of sample receipt:** 25 Feb., 2021

**Date of Test:** 26 Feb., to 16 Mar., 2021

**Date of report issued:** 17 Mar., 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	17 Mar., 2021	Original

**Tested by:***Mike.ou***Test Engineer****Date:***17 Mar., 2021***Reviewed by:***Winner Zhang***Project Engineer****Date:***17 Mar., 2021*

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

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

Product Name:	Mobile Phone
Model No.:	LE7
Power supply:	Rechargeable Li-ion polymer Battery DC3.87, 6850mAh
AC adapter:	Model: U180TSA Input: AC100-240V, 50/60Hz, 0.6A Output: DC 5.0V - 9.0V == 2A, 9.0V - 12.0V == 1.5A
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
<p>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 &amp; 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.</p>	
<b>Test Samples Plans :</b>	
Samples Number	Used for Test Items
4#	Conducted Emission
1#	Radiated Emission
1#	EUT constructional details
<p><b>Remark:</b> JianYan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.</p>	

### 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

### 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	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
Detached USB Cable	Shielding	1.02m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.24m	EUT	Headset

### 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 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.
- **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>

### 5.10 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@ccis-cb.com, Website: <http://www.ccis-cb.com>

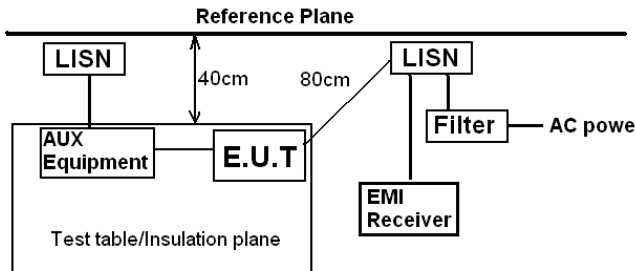
## 5.11 Test Instruments list

<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	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
				03-05-2021	03-04-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
				03-05-2021	03-04-2022
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
				03-07-2021	03-06-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
				03-07-2021	03-06-2022

<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	101189	03-05-2021	03-04-2022
				03-05-2021	03-04-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
				03-05-2021	03-04-2022
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
				03-05-2021	03-04-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
				03-05-2021	03-04-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

## 6 Test results and Measurement Data

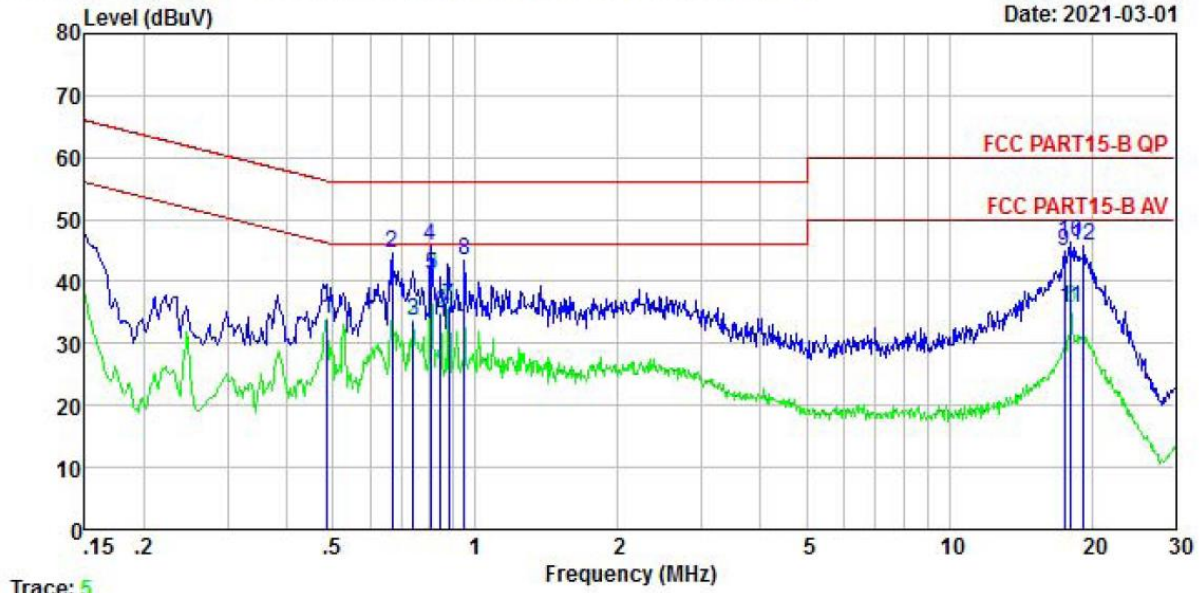
### 6.1 Conducted Emission

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:	Mobile Phone	Product model:	LE7
Test by:	Mike	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%



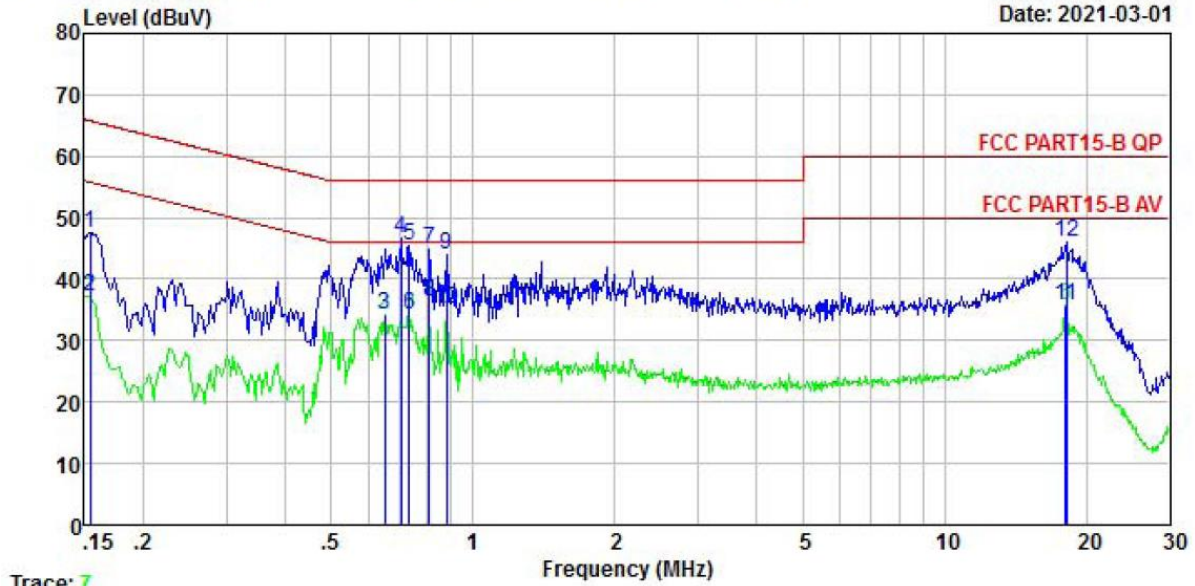
Trace: 5

	Freq	Read Level	LISN Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.486	23.93	-0.44	33.99	46.23	-12.24	Average
2	0.668	34.81	-0.52	44.67	56.00	-11.33	QP
3	0.739	23.63	-0.54	33.60	46.00	-12.40	Average
4	0.804	35.56	-0.56	45.74	56.00	-10.26	QP
5	0.809	30.91	-0.57	41.10	46.00	-4.90	Average
6	0.844	24.41	-0.58	34.70	46.00	-11.30	Average
7	0.880	25.76	-0.59	36.15	46.00	-9.85	Average
8	0.948	32.89	-0.61	43.45	56.00	-12.55	QP
9	17.475	32.50	-0.78	44.85	60.00	-15.15	QP
10	17.944	34.36	-0.80	46.38	60.00	-13.62	QP
11	18.039	23.59	-0.80	35.61	50.00	-14.39	Average
12	19.224	34.52	-0.84	45.89	60.00	-14.11	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>	Mobile Phone	<b>Product model:</b>	LE7
<b>Test by:</b>	Mike	<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 Humi: 55%



Trace: 7

	Read	LISN	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.154	37.52	-0.69	47.62	65.78	-18.16 QP
2	0.154	27.20	-0.69	37.30	55.78	-18.48 Average
3	0.651	24.20	-0.64	34.37	46.00	-11.63 Average
4	0.705	36.61	-0.64	46.78	56.00	-9.22 QP
5	0.731	35.18	-0.64	45.36	56.00	-10.64 QP
6	0.731	23.98	-0.64	34.16	46.00	-11.84 Average
7	0.809	34.73	-0.66	44.94	56.00	-11.06 QP
8	0.809	26.10	-0.66	36.31	46.00	-9.69 Average
9	0.880	33.70	-0.67	43.93	56.00	-12.07 QP
10	0.880	24.82	-0.67	35.05	46.00	-10.95 Average
11	18.039	24.50	-1.11	35.61	50.00	-14.39 Average
12	18.232	35.23	-1.13	46.16	60.00	-13.84 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

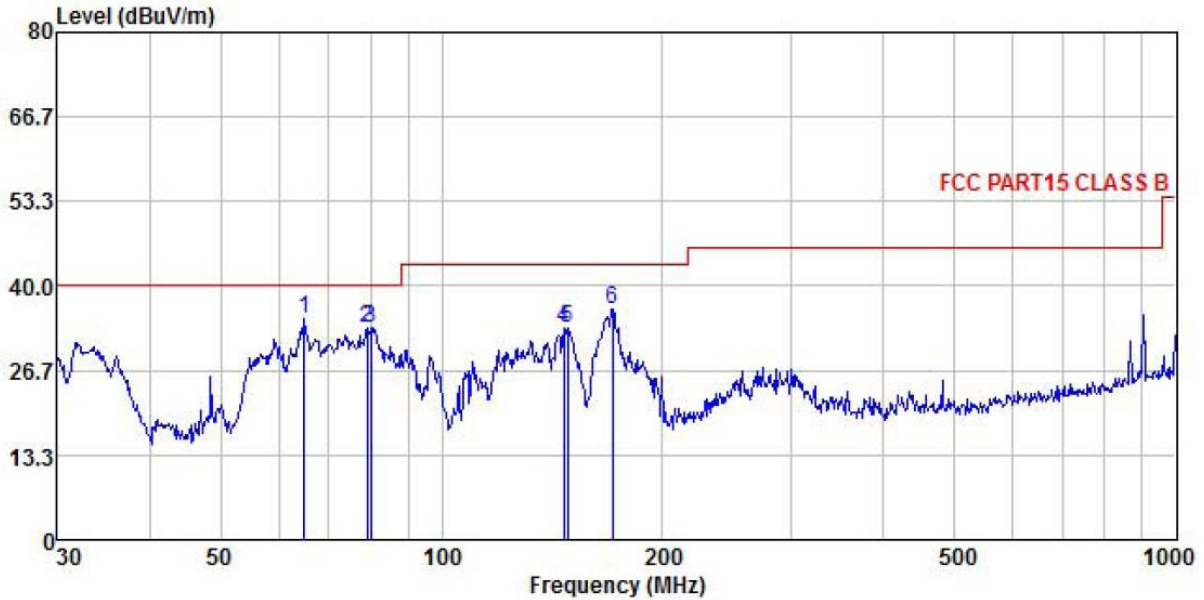
Test Requirement:	FCC Part 15 B Section 15.109				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz 3MHz	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				
Test Procedure:	<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> </ol>				

	<p>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.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p>
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:	Mobile Phone	Product Model:	LE7
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

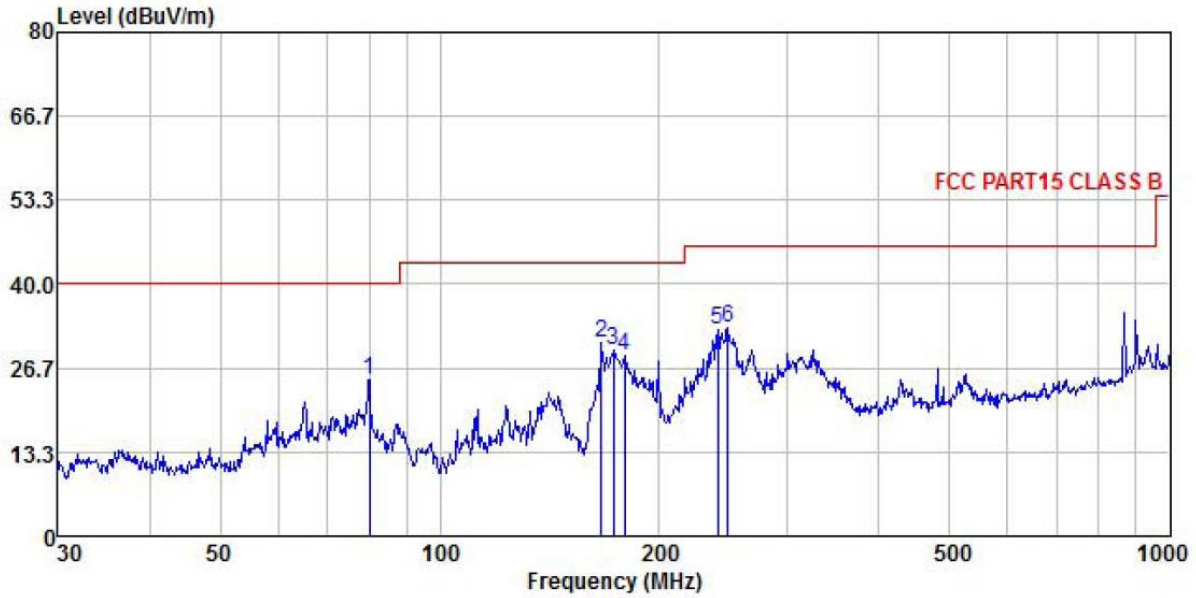


	ReadAntenna	Cable	Aux	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	65.114	54.15	9.81	0.61	0.00	29.76	34.81	40.00	-5.19 QP
2	79.243	49.76	12.59	0.69	0.00	29.65	33.39	40.00	-6.61 QP
3	80.081	49.47	12.80	0.69	0.00	29.64	33.32	40.00	-6.68 QP
4	146.888	47.51	14.06	1.02	0.00	29.24	33.35	43.50	-10.15 QP
5	148.441	47.27	14.18	1.02	0.00	29.23	33.24	43.50	-10.26 QP
6	170.793	47.73	16.54	1.21	0.00	29.04	36.44	43.50	-7.06 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.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	LE7
<b>Test By:</b>	Mike	<b>Test mode:</b>	PC mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24℃ Huni: 57%



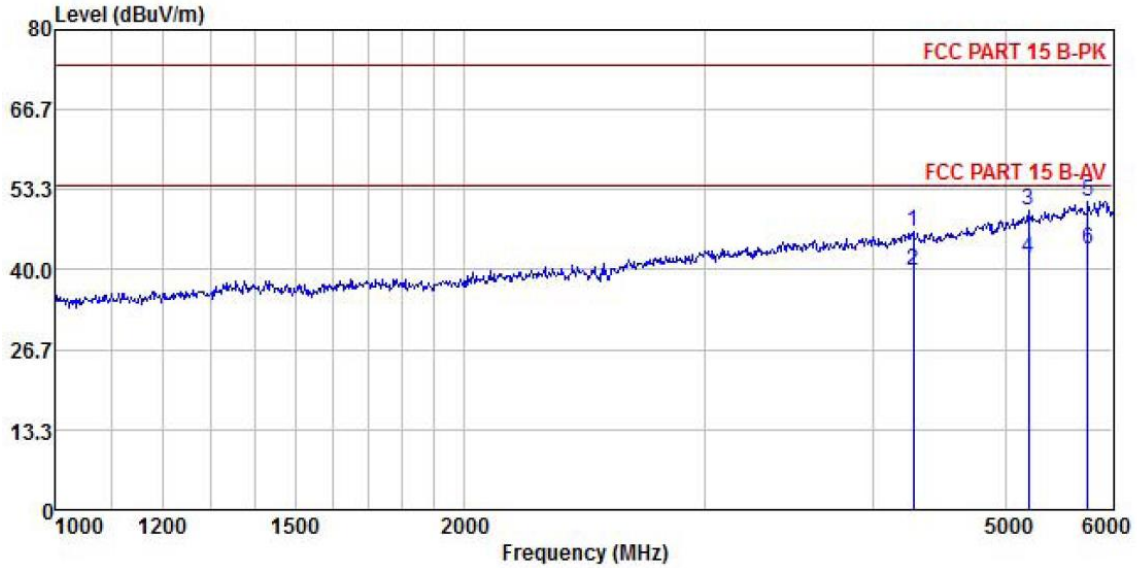
	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
Freq	Level	Factor	Loss	Factor	Factor	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB
1	80.081	41.04	12.80	0.69	0.00	29.64	24.89	40.00 -15.11 QP
2	166.651	42.68	15.90	1.18	0.00	29.08	30.68	43.50 -12.82 QP
3	173.205	40.70	16.69	1.23	0.00	29.02	29.60	43.50 -13.90 QP
4	179.386	39.30	16.89	1.28	0.00	28.98	28.49	43.50 -15.01 QP
5	239.987	41.28	18.46	1.53	0.00	28.59	32.68	46.00 -13.32 QP
6	248.552	41.43	18.49	1.55	0.00	28.55	32.92	46.00 -13.08 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.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Above 1GHz:

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	LE7
<b>Test By:</b>	Mike	<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 Humi: 57%

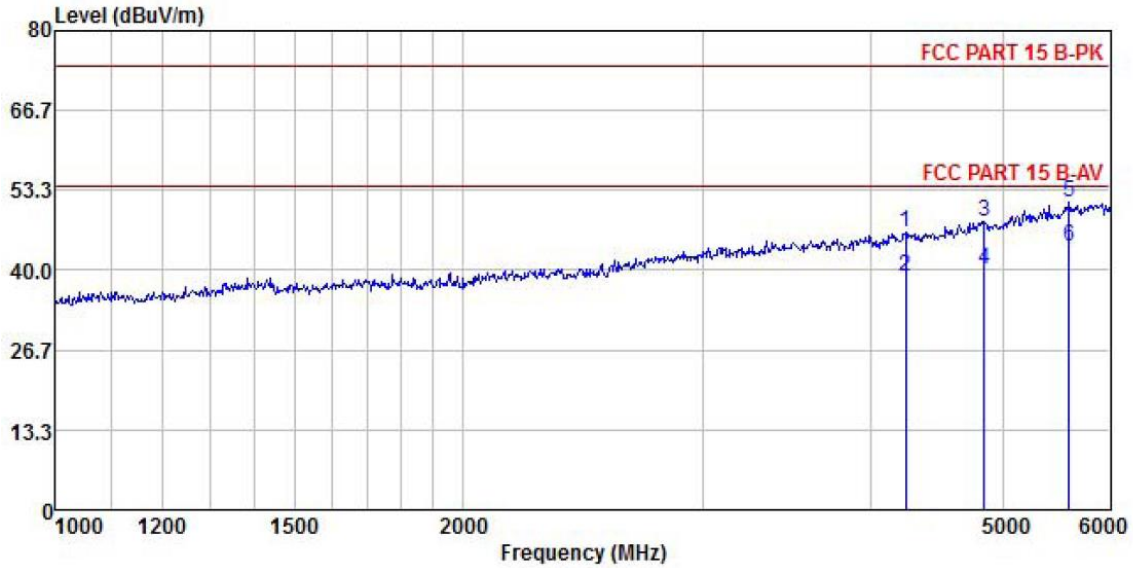


	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	4278.467	46.05	29.76	10.13	2.29	41.87	46.36	74.00	-27.64	Peak
2	4278.467	39.55	29.76	10.13	2.29	41.87	39.86	54.00	-14.14	Average
3	5197.542	46.98	31.63	10.82	2.55	41.95	50.03	74.00	-23.97	Peak
4	5197.542	38.95	31.63	10.82	2.55	41.95	42.00	54.00	-12.00	Average
5	5750.997	46.84	32.40	11.33	2.73	41.96	51.34	74.00	-22.66	Peak
6	5750.997	38.78	32.40	11.33	2.73	41.96	43.28	54.00	-10.72	Average

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.

<b>Product Name:</b>	Mobile Phone	<b>Product Model:</b>	LE7
<b>Test By:</b>	Mike	<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 Humi: 57%



	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	4237.042	46.16	29.70	10.06	2.28	41.84	46.36	74.00	-27.64	Peak
2	4237.042	38.76	29.70	10.06	2.28	41.84	38.96	54.00	-15.04	Average
3	4845.901	45.79	30.87	10.78	2.46	41.83	48.07	74.00	-25.93	Peak
4	4845.901	37.80	30.87	10.78	2.46	41.83	40.08	54.00	-13.92	Average
5	5596.439	47.37	32.34	10.88	2.68	41.79	51.48	74.00	-22.52	Peak
6	5596.439	39.88	32.34	10.88	2.68	41.79	43.99	54.00	-10.01	Average

**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.