

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100368

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.: AC8

Trade mark: TECNO

FCC ID: 2ADYY-AC8

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 16 Mar., 2021

Date of Test: 17 Mar., to 02 Apr., 2021

Date of report issued: 02 Apr., 2021

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



Report No: JYTSZB-R12-2100368

2 Version

Version No.	Date	Description
00	02 Apr., 2021	Original

Tested by:	Mike ou	Date:	02 Apr., 2021	
	Test Engineer			

Reviewed by:

| Date: 02 Apr., 2021 | Project Engineer | Date: | Date:

Project No.: JYTSZE2103035





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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:

- 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.:	AC8
Power supply:	Rechargeable Li-ion Polymer Battery DC3.87V-4600mAh
AC adapter:	Model: U330TSA
	Input: AC100-240V, 50/60Hz, 1.5A
	Output: DC 5.0V,3.0A or 10.0V,3.3A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Detail description			
Keep the EUT in Downloading mode(Worst case)			
Keep the EUT in Charging+Recording mode			
Keep the EUT in Charging+Playing 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)	±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)



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5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070 2J8XSZ2		DoC
DELL	MONITOR	SE2018HR	SE2018HR 3M7QPY2	
DELL	KEYBOARD	KB216d	KB216d N/A	
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	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	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

JianYan Testing Group Shenzhen Co., Ltd.

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.





5.11 Test Instruments list

Radiated Emission:	Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024		
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021		
EMI Test Software	AUDIX	E3	Version: 6.110919b				
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022		
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022		
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022		

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	03-03-2021	03-02-2022	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022	
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021	
Cable	HP	10503A	N/A	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	Version: 6.110919b			

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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Test results and Measurement Data

6.1 Conducted Emission

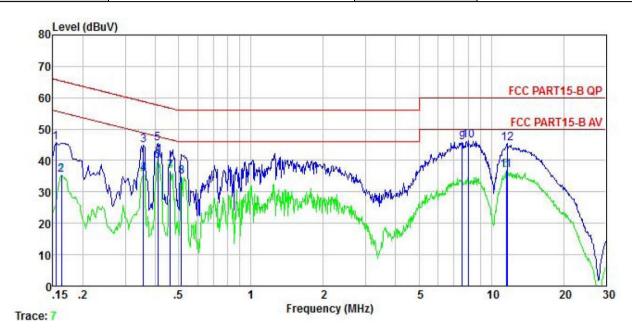
Test Requirement:	FCC Part 15 B Section 15.107					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Limit	(dBµV)			
	, , ,	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
	* Decreases with the logarithm	of the frequency.				
Test setup:	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC power				
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(latest version) on conducted measurement. 					
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:	AC8
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℃ Huni: 55%



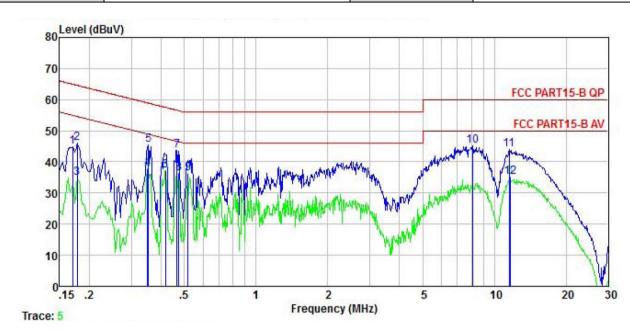
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	dB	<u>d</u> B	₫B	dBu₹	dBu∀	dB	
1	0.154	46.46	-0.57	-0.06	0.01	45.84	65.78	-19.94	QP
2	0.162	36.09	-0.58	-0.08	0.01	35.44	55.34	-19.90	Average
3	0.358	45.24	-0.51	0.16	0.02	44.91	58.78	-13.87	QP
1 2 3 4 5 6 7 8 9	0.358	36.15	-0.51	0.16	0.02	35.82	48.78	-12.96	Average
5	0.410	45.47	-0.47	0.33	0.04	45.37	57.64	-12.27	QP
6	0.410	39.83	-0.47	0.33	0.04	39.73	47.64	-7.91	Average
7	0.461	37.11	-0.45	-0.06	0.03	36.63	46.67	-10.04	Average
8	0.513	35.55	-0.44	-0.35	0.03	34.79	46.00	-11.21	Average
9	7.566	44.75	-0.59	1.46	0.10	45.72	60.00	-14.28	QP
10	8.020	45.36	-0.62	1.56	0.10	46.40	60.00	-13.60	QP
11	11.559	34.91	-0.72	2.51	0.11	36.81	50.00	-13.19	Average
12	11.621	43.41	-0.72	2.55	0.11	45.35	60.00	-14.65	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:	Mobile Phone	Product model:	AC8	
Test by:	Mike	Test mode:	PC mode	
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral	
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%	



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>d</u> B	<u>dB</u>	dB	dBu₹	−dBuV	<u>dB</u>	
1	0.170	45.39	-0.68	0.01	0.01	44.73		-20.21	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P
2	0.178	46.69	-0.68	0.00	0.01	46.02	64.59	-18.57	QP
3	0.178	35.53	-0.68	0.00	0.01	34.86	54.59	-19.73	Average
4	0.350	38.39	-0.65	-0.03	0.02	37.73	48.96	-11.23	Average
1 2 3 4 5 6 7 8 9	0.354	46.15	-0.65	-0.03	0.02	45.49	58.87	-13.38	QP
6	0.417	37.74	-0.63	-0.04	0.04	37.11	47.51	-10.40	Average
7	0.466	44.44	-0.64	0.00	0.03	43.83	56.58	-12.75	QP
8	0.474	36.82	-0.65	0.01	0.03	36.21	46.45	-10.24	Average
9	0.518	36.94	-0.65	0.03	0.03	36.35	46.00	-9.65	Average
10	8.105	44.71	-0.77	1.07	0.10	45.11	60.00	-14.89	QP
11	11.559	42.57	-0.80	1.98	0.11	43.86	60.00	-16.14	QP
12	11.621	33.88	-0.80	2.02	0.11	35.21	50.00	-14.79	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 Padiated Emission

T (D)	on	45 46						
Test Requirement:	FCC Part 15 B Section 15.109							
Test Frequency Range:	30MHz to 6000M	Hz						
Test site:	Measurement Dis	stance: 3m ((Sem	i-Anechoic (Chamber)			
Receiver setup:	Frequency	Detecto	or	RBW	VBW	Remark		
·	30MHz-1GHz	Quasi-pe	ak	120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak		1MHz	3MHz	Peak Value		
		RMS		1MHz	3MHz	Average Value		
Limit:	Frequence 30MHz-88N		Lim	it (dBuV/m	@3m)	Remark		
	88MHz-216			40.0 43.5		Quasi-peak Value Quasi-peak Value		
	216MHz-960			46.0		Quasi-peak Value		
	960MHz-10			54.0		Quasi-peak Value		
				54.0		Average Value		
	Above 1G	Hz		74.0		Peak Value		
Test setup:	Below 1GHz Turn Table Ground Plane Above 1GHz	4m		RFT				
	AE	W V V	Horn Antenna Tower Ground Reference Plane Antenna Tower Controller Arctifer Controller					
Test Procedure:	 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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 							



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	 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. 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 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

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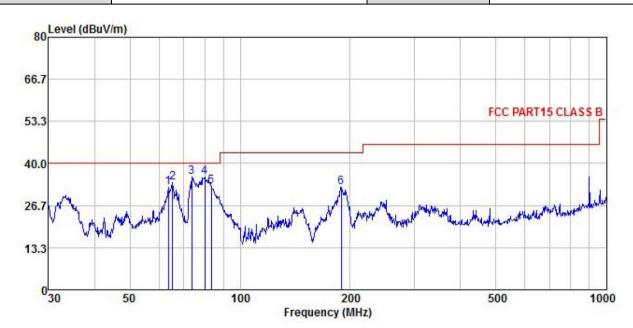




Measurement Data:

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	AC8
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



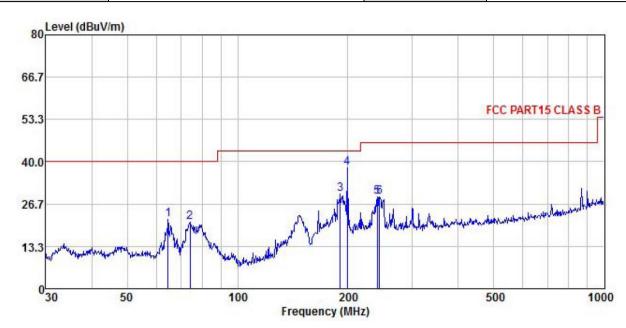
	Freq		intenna Factor				Limit Line		Remark
	MHz	dBu₹			<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>d</u> B	
1	63.759	51.69	10.03	0.60	29.76	32.56	40.00	-7.44	QP
2	65.343	53.41	9.83	0.61	29.76	34.09	40.00	-5.91	QP
3	73.876	53.44	11.21	0.66	29.69	35.62	40.00	-4.38	QP
4 5 6	80.081	51.91	12.80	0.69	29.64	35.76	40.00	-4.24	QP
5	83.522	49.80	11.95	0.69	29.61	32.83	40.00	-7.17	QP
6	189.074	42.68	17.37	1.35	28.91	32.49	43.50	-11.01	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.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	Mobile Phone	Product Model:	AC8
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∀	dB/m	₫B	₫B	dBuV/m	dBuV/m	<u>dB</u>	
1	64.659	41.06	9.85	0.61	29.76	21.76	40.00	-18.24	QP
2	74.135	38.71	11.28	0.66	29.69	20.96	40.00	-19.04	QP
3	190.405	39.96	17.45	1.36	28.90	29.87	43.50	-13.63	QP
4	199.286	47.24	18.23	1.43	28.83	38.07	43.50	-5.43	QP
5	239.987	37.56	18.46	1.53	28.59	28.96	46.00	-17.04	QP
4 5 6	244.232	37.52	18.48	1.54	28.57	28.97	46.00	-17.03	QP

Remark:

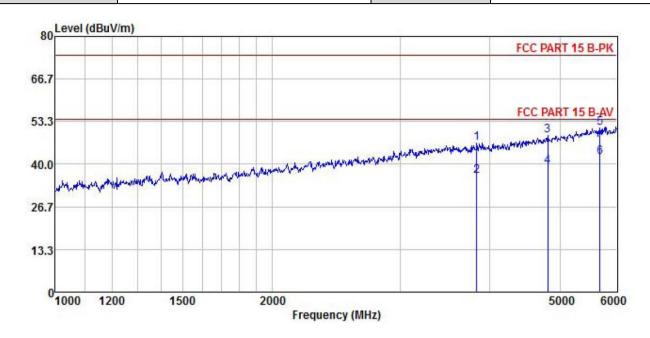
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.





Above 1GHz:

Product Name:	Mobile Phone	Product Model:	AC8
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



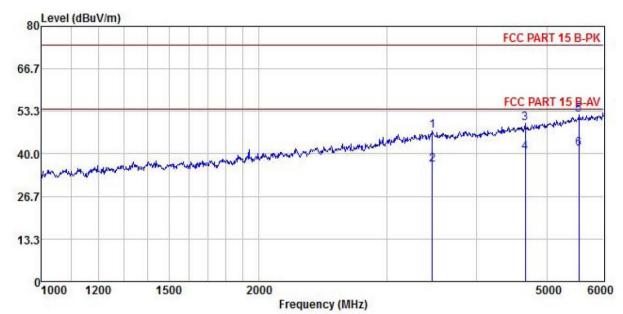
Freq	KeadAntenna Level Factor					Limit		Remark
MHz	dBu∜	— <u>dB</u> /π		<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
3833.659	61.12	29.11	10.91	54.44	46.70	74.00	-27.30	Peak
3833.659	50.63	29.11	10.91	54.44	36.21			
4813.252	60.06	30.81	12.39	54.31				
4813.252	50.42	30.81	12.39	54.31	39.31	54.00	-14.69	Average
5685.998	59.87	32.37	13.58	54.36	51.46			
5685.998	50.66	32.37	13.58	54.36	42.25	54.00	-11.75	Average
	MHz 3833.659 3833.659 4813.252 4813.252 5685.998	Freq Level MHz dBuV 3833.659 61.12 3833.659 50.63 4813.252 60.06	Freq Level Factor MHz dBuV dB/m 3833.659 61.12 29.11 3833.659 50.63 29.11 4813.252 60.06 30.81 4813.252 50.42 30.81 5685.998 59.87 32.37	Freq Level Factor Loss MHz dBuV dB/m dB 3833.659 61.12 29.11 10.91 3833.659 50.63 29.11 10.91 4813.252 60.06 30.81 12.39 4813.252 50.42 30.81 12.39 5685.998 59.87 32.37 13.58	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 3833.659 61.12 29.11 10.91 54.44 3833.659 50.63 29.11 10.91 54.44 4813.252 60.06 30.81 12.39 54.31 4813.252 50.42 30.81 12.39 54.31 5685.998 59.87 32.37 13.58 54.36	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 3833.659 61.12 29.11 10.91 54.44 46.70 3833.659 50.63 29.11 10.91 54.44 36.21 4813.252 60.06 30.81 12.39 54.31 48.95 4813.252 50.42 30.81 12.39 54.31 39.31 5685.998 59.87 32.37 13.58 54.36 51.46	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m 3833.659 61.12 29.11 10.91 54.44 46.70 74.00 3833.659 50.63 29.11 10.91 54.44 36.21 54.00 4813.252 60.06 30.81 12.39 54.31 48.95 74.00 4813.252 50.42 30.81 12.39 54.31 39.31 54.00 5685.998 59.87 32.37 13.58 54.36 51.46 74.00	Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 3833.659 61.12 29.11 10.91 54.44 46.70 74.00 -27.30 3833.659 50.63 29.11 10.91 54.44 36.21 54.00 -17.79 4813.252 60.06 30.81 12.39 54.31 48.95 74.00 -25.05 4813.252 50.42 30.81 12.39 54.31 39.31 54.00 -14.69 5685.998 59.87 32.37 13.58 54.36 51.46 74.00 -22.54

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:	Mobile Phone	Product Model:	AC8
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Level Factor				Limit		Remark
	MHz	dBu∇		<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	3473.883	62.28	28.69	10.78	54.49	47.26	74.00	-26.74	Peak
2	3473.883	51.53	28.69	10.78	54.49	36.51	54.00	-17.49	Average
3	4668.852	61.26	30.49	12.20	54.33	49.62	74.00	-24.38	Peak
4	4668.852	51.99	30.49	12.20	54.33	40.35	54.00	-13.65	Average
5	5535.214	60.92	32.31	13.47	54.34	52.36			
6	5535.214	50.15	32.31	13.47	54.34	41.59	54.00	-12.41	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.

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