RF TEST REPORT



Report No.: 17070659-FCC-R6 Supersede Report No.: N/A

Applicant	TECNO MOBILE LIMITED			
Product Name	Mobile phor	Mobile phone		
Model No.	AX8			
Serial No.	N/A			
Test Standard	FCC Part 1	5.407: 2016,	ANSI C63.10: 2	013
Test Date	July 29 to S	eptember 28	, 2017	
Issue Date	September	29, 2017		
Test Result	Pass	Fail		
Equipment compl	Equipment complied with the specification			
Equipment did no	t comply with	the specific	ation 🔲	
LOVEN LUO David Huang				
Loren Luo Test Engineer			l Huang cked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070659-FCC-R6	NONE	Original	September 29, 2017

2. Customer information

Applicant Name	TECNO MOBILE LIMITED	
Applicant Add	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE,	
	HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG	
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	
Manufacturer Add	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian	
	District,Shenzhen,Guangdong,China	



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3. Test site information

Test Lab:

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	535293	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT:	Mobile phone
Description of EUT:	iviobile phone

Main Model: AX8

Serial Model: N/A

Date EUT received: July 28, 2017

Test Date(s): July 29 to September 28, 2017

Equipment Category: NII

Antenna Gain:

GSM850: -2.53dBi PCS1900: -1.31dBi

UMTS-FDD Band V: -2dBi
UMTS-FDD Band II: -1.74dBi

LTE Band II: -1.31dBi LTE Band IV: -2.64dBi

LTE Band V: -2.14dBi LTE Band VII: -0.27dBi

WIFI(2.4G): -0.87 dBi

WIFI(5150-5250MHz): -5.3 dBi WIFI(5250-5350MHz): -5.3 dBi WIFI(5725-5850MHz): -5.3 dBi

Bluetooth/BLE: -0.87dBi

GPS: -1.47dBi

Antenna Type: IFA antenna

GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK

Type of Modulation: LTE Band: QPSK, 16QAM

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



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GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V : 102CH UMTS-FDD Band II : 277CH

WIFI:802.11b/g: 11CH

Number of Channels: WIFI:802.11a: 24CH

WIFI:802.11n20: 11CH(2.4GHz); 24CH(5GHz) WIFI:802.11n40: 7CH(2.4GHz); 12CH(5GHz)

Bluetooth: 79CH

BLE: 40CH GPS:1CH

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz

UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz

LTE Band V TX: 824.7~ 848.3 MHz; RX: 869.7 ~ 893.3MHz

RF Operating Frequency (ies): LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz

802.11b/g: 2412-2462 MHz (TX/RX)

802.11n20: 2412-2462MHz; 5180-5240 MHz; 5260-5320 MHz; 5745-

5825 MHz; (TX/RX)

802.11n40: 2422-2452 MHz (TX/RX); 5190-5230 MHz; 5270-5310

MHz; 5755-5795 MHz; (TX/RX)

802.11 a: 5180-5240 MHz; 5260-5320 MHz; 5745-5825 MHz (TX/RX)

Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

802.11a: 9.78dBm

Max. Output Power: 802.11n(20M): 9.97dBm

802.11n(40M): 8.88dBm

Port: USB Port, Earphone Port

Trade Name : TECNO

GPRS/EGPRS Multi-slot class 8/10/11/12



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FCC ID:	2ADYY-AX8



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
\$45 407/b)	In-Service Monitoring for Channel Move Time and	Compliance
§15.407(h)	Channel Closing Transmission Time	Compliance



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6. Measurements, Examination And Derived Results

6.1 In-Service Monitoring for Channel Move Time and Channel Closing Transmission Time

These tests define how the following DFS parameters are verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period.

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at Mid Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at -62dBm.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the DFS Response requirement values table.

Channel Closing Transmission Time- Measurement

A type 1 waveform was introduced to the EUT and the Spectrum Analyzer sweep time was set to 1s for monitoring and capturing the plot. A LabView program was created to collect trace data and capturing the plot. The program will calculate the channel closing time base on the spectrum analyzer result. The result will be calculated based on FCC procedure.

C= N*Dwell

C is the closing time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and dwell is the dwell time per bin.

Dwell= S/B



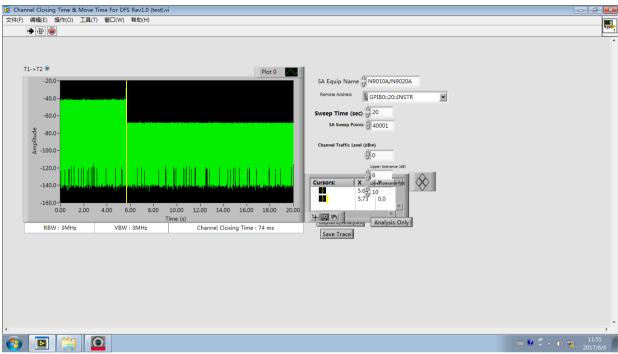
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Where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number 0f spectrum analyzer sampling bins.

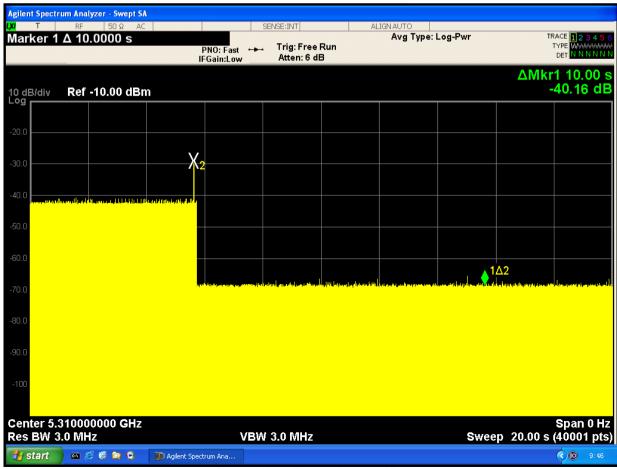


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Test Plots



Channel Closing Time - n40 - 5310MHz



Channel Move Time - n40 - 5310MHz



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Annex A. TEST INSTRUMENT

Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

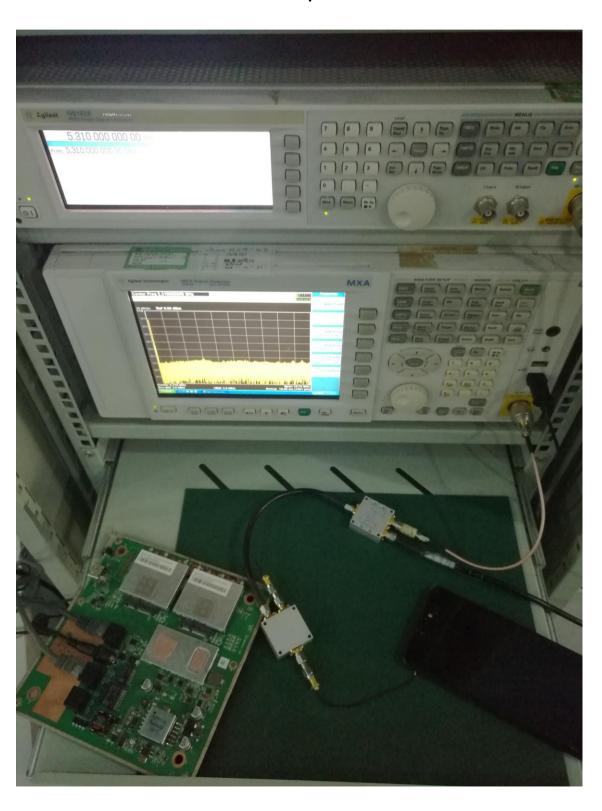
Instrument	Model	Serial #	Cal Date	Cal Due	In use
Radiated DFS Measurement					
Keysight Signal Analyzer	N9020A	MY49100060	11/15/2016	11/14/2017	<u>\</u>
Splitter/Combiner (Mini-Circuit)	PD-2/8-2S	XA022154	11/15/2016	11/14/2017	~
Splitter/Combiner (Mini-Circuit)	PD-2/8-2S	XA022155	11/15/2016	11/14/2017	>
Splitter/Combiner (Mini-Circuit)	PD-2/8-2S	XA022159	11/15/2016	11/14/2017	~
Agilent Signal Generator	MXG N5182A	MY50140530	11/17/2016	11/16/2017	~



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Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

Test Setup Photo





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Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Agilent	Signal Analyzer	N9020A	N/A
Agilent	Signal Generator	N5182A	N/A



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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was continuously transmitting to stimulate the worst
Emissions resung	case.



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Annex D. User Manual / Block Diagram / Schematics / Partlist

See attachment



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Annex E. DECLARATION OF SIMILARITY

N/A