

RF Exposure Report

Report No.: SA130605C26A

FCC ID: 188Z5SPM9382

Test Model: Z5SPM9382

Received Date: Mar. 15, 2016

Test Date: Apr. 13 ~ May 05, 2016

Issued Date: May 10, 2016

Applicant: ZyXEL Communications Corporation

Address: No. 2, Gongye E. 9th Road, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C

- Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
- Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
- Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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Release Control Record

Issue No.	Description	Date Issued
SA130605C26A	Original release.	May 10, 2016



1 **Certificate of Conformity**

Product:	5G Wireless Card		
Brand:	ZyXEL		
Test Model:	Z5SPM9382		
Sample Status:	Engineering sample		
Applicant:	ZyXEL Communications Corporation		
Test Date:	Apr. 13 ~ May 05, 2016		
Standards:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01 (October 23, 2015)		
	IEEE C95.1		

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Date:

Pettie Chen / Senior Specialist

May 10, 2016

Approved by :

May 10, 2016 Date:

Ken Liu / Senior Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			Average Time (minutes)		
Limits For General Population / Uncontrolled Exposure						
300-1500			F/1500	30		
1500-100,000			1.0	30		

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
5180-5240	27.47	6.01	20	0.443	1
5745-5825	28.83	6.01	20	0.606	1

Note: Directional gain = 3dBi + 10log(2) = 6.01dBi

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