

RF Exposure Report

Report No.: SA140224C17H

FCC ID: 2AGZF-WE2520

Test Model: SWE2520

Received Date: Feb. 24, 2014

Test Date: Mar. 13 ~ Mar. 20, 2014 (For 2.4GHz Band)

Jul. 14 ~ Jul. 22, 2015 (For 5GHz Band)

Issued Date: Dec. 22, 2015

Applicant: Siselectron Technology Ltd.

Address: 23451, 5F, No 232, Sec.2, Xiulang Rd., Yonghe Dist., New Taipei City,

Taiwan

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

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN (R.O.C.)





This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

Report No.: SA140224C17H Page No. 1 / 6 Report Format Version:6.1.1 Reference No.: 151218C15



Table of Contents

Release Control Record	
1 Certificate of Conformity	4
2 RF Exposure	5
Limits For Maximum Permissible Exposure (MPE) MPE Calculation Formula	5
2.3 Classification 3 Calculation Result Of Maximum Conducted Power	



Release Control Record

Issue No.	Description	Date Issued
SA140224C17H	Original release.	Dec. 22, 2015



1 Certificate of Conformity

Product: Dual Band AC1750 Access Point

Brand: Siselectron

Test Model: SWE2520

Sample Status: Engineering sample

Applicant: Siselectron Technology Ltd.

Test Date: Mar. 13 ~ Mar. 20, 2014 (For 2.4GHz Band)

Jul. 14 ~ Jul. 22, 2015 (For 5GHz Band)

Standard: 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: Dec 22 2015

lw Lin / Specialist

Approved by: Date: Dec 22 2015

Ken Liu / Senior Manager



2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	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/cm²

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 30cm away from the body of the user. So, this device is classified as **Mobile Device**.

Report No.: SA140224C17H Reference No.: 151218C15 Page No. 5 / 6

Report Format Version:6.1.1



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/cm²)
2412-2462	28.69	8.77	30	0.493	1
5180-5240	27.68	9.77	30	0.492	1
5745-5825	26.22	9.77	30	0.351	1

NOTE:

2.4GHz Band: Directional gain = 4dBi + 10log(3) = 8.77dBi 5.0GHz Band: Directional gain = 5dBi + 10log(3) = 9.77dBi

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.493 + 0.492 = 0.985

Therefore the maximum calculations of above situations are less than the "1" limit.

--- END ---