

RF Exposure Report

Report No.: SA150821C10A

FCC ID: ZQ6-AP6356SDXX

Test Model: AP6356SD

Received Date: Aug. 21, 2015

Test Date: Nov. 25 ~ Dec. 26, 2015

Issued Date: Dec. 28, 2015

Applicant: AMPAK Technology Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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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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Table of Contents

| | |
|--|----------|
| Release Control Record | 3 |
| 1 Certificate of Conformity | 4 |
| 2 RF Exposure | 5 |
| 2.1 Limits for Maximum Permissible Exposure (MPE)..... | 5 |
| 2.2 MPE Calculation Formula | 5 |
| 2.3 Classification | 5 |
| 3 Calculation Result Of Maximum Conducted Power | 5 |



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Release Control Record

| Issue No. | Description | Date Issued |
|-------------|------------------|---------------|
| SA150821C10 | Original release | Dec. 28, 2015 |

1 Certificate of Conformity

Product: WLAN module for 802.11abgn(2x2) + 11ac + BT4.1

Brand: Ampak

Test Model: AP6356SD

Sample Status: Engineering Sample

Applicant: AMPAK Technology Inc.

Test Date: Nov. 25 ~ Dec. 26, 2015

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 : Celine Chou , **Date:** Dec. 28, 2015
Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Dec. 28, 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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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

| EUT Function | Frequency Band (MHz) | TX Function | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm ²) | Limit (mW/cm ²) |
|---------------|----------------------|-------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| WLAN | 2412-2462 | 1TX | 14.15 | 3.51 | 20 | 0.012 | 1 |
| | | 2TX | 14.91 | 6.51 | 20 | 0.028 | 1 |
| | 5180-5240 | 2TX | 12.43 | 8.51 | 20 | 0.025 | 1 |
| | 5745-5825 | 2TX | 12.69 | 8.51 | 20 | 0.026 | 1 |
| Bluetooth LE | 2402-2480 | 1TX | 7.25 | 3.51 | 20 | 0.002 | 1 |
| Bluetooth EDR | 2402-2480 | 1TX | 7.84 | 3.51 | 20 | 0.003 | 1 |

Note:

2.4GHz: Directional gain = 3.5dBi + 10log(2) = 6.51dBi

5GHz: Directional gain = 5.5dBi + 10log(2) = 8.51dBi

* Both of the 2.4GHz and 5GHz can not transmit simultaneously

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