

# **RF Exposure Report**

**Report No.:** SA171226C09

FCC ID: 2AEIFUMPZ2-M01

Test Model: UMPZ2-EVK2

Received Date: Dec. 26, 2017

Test Date: Jan. 10 ~ Jan. 11, 2018

Issued Date: Jan. 23, 2018

Applicant: ALPS ELECTRIC CO., LTD.

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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.)





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# **Release Control Record**

Issue No.	Description	Date Issued
SA171226C09	Original release.	Jan. 23, 2018

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1	Certificate	of Conformity
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Product: V2X module

Brand: ALPS

Test Model: UMPZ2-EVK2

Sample Status: Engineering sample

Applicant: ALPS ELECTRIC CO., LTD.

**Test Date:** Jan. 10 ~ Jan. 11, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

**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.

Pettie Chen / Senior Specialist

Approved by: , Date: Jan. 23, 2018

Bruce Chen / Project Engineer



### 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 <sup>2</sup> )	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<sup>2</sup>

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)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm²)
5860 ~ 5920	20.2	20	0.021	1

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