

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

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

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

1 Certificate of Conformity

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.

Prepared by : , **Date:** Jan. 23, 2018
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 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

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

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

FREQUENCY BAND (MHz)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
5860 ~ 5920	20.2	20	0.021	1

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