

RF Exposure Report

Report No.: SA180615D14

FCC ID: 2AI9TOAW-AP1201H

Test Model: OAW-AP1201H

Received Date: Apr. 25, 2018

Test Date: May 4 ~ Jun. 27, 2018

Issued Date: Jul. 6, 2018

Applicant: ALE USA Inc.

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R.O.C.

FCC Registration /

Designation Number: 198487 / TW2021





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Release Control Record

Issue No.	Description	Date Issued
SA180615D14	Original release.	Jul. 6, 2018

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Report No.: SA180615D14 Reference No.: 180425D01



1 Certificate of Conformity

Product: OmniAccess Stellar

Brand: Alcatel-Lucent Enterprise

Test Model: OAW-AP1201H

Sample Status: Engineering sample

Applicant: ALE USA Inc.

Test Date: May 4 ~ Jun. 27, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 RF characteristics under the conditions specified in this report.

Prepared by: Jul. 6, 2018

Annie Chang / Senior Specialist

Approved by: , Date: Jul. 6, 2018

Rex Lai / Associate Technical Manager



Report Format Version: 6.1.1

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

Classification 2.3

The antenna of this product, under normal use condition, is at least 25cm away from the body of the user. So, this device is classified as **Mobile Device**.

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2.4 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	25.57	7.01	25	0.2306	1
5180-5240	25.91	9.31	25	0.4236	1
5745-5825	26.21	9.31	25	0.4538	1

NOTE:

2.4GHz Directional gain = 4dBi + 10log(2) = 7.01dBi 5.0GHz Directional gain = 6.3dBi + 10log(2) = 9.31dBi

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 = 0.2306 + 0.4538 = 0.6845

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

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