	BUREAU VERITAS	
	RF Exposure Report	
Report No.:	SA180615D14A	
FCC ID:	2AI9TOAW-AP1201H	
Test Model:	OAW-AP1201H	
Received Date:	Apr. 26, 2018	
Test Date:	May 9 ~ Jul. 9, 2018	
Issued Date:	Aug. 27, 2018	
Applicant	ALE USA Inc.	
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	FCC Registration / Designation Number: 198487 / TW2021	
	lac-mra	
	Testing Laboratory 2021	
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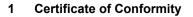
Table of Contents

Relea	se Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	5
2.2 2.3	Limits For Maximum Permissible Exposure (MPE) MPE Calculation Formula Classification Calculation Result Of Maximum Conducted Power	. 5 . 5



Release Control Record

Issue No.	Description	Date Issued
SA180615D14A	Original release.	Aug. 27, 2018



Product:	OmniAccess Stellar		
Brand:	Alcatel-Lucent Enterprise		
Test Model:	OAW-AP1201H		
Sample Status:	Engineering sample		
Applicant:	ALE USA Inc.		
Test Date:	May 9 ~ Jul. 9, 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 :

<u>kie Chang</u>, Date: Aug. 27, 2018 Annie Chang / Senior Specialist

Approved by :

Rex Lai / Associate Technical Manager

Aug. 27, 2018

Date:



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 25cm away from the body of the user. So, this device is classified as **Mobile Device**.



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/cm ²)
2412-2462 (Original Approved)	25.57	7.01	25	0.2306	1
5180-5240 (Original Approved)	25.91	9.31	25	0.4236	1
5260-5320	23.66	9.31	25	0.2523	1
5500~5700	23.65	9.31	25	0.2517	1
5745-5825 (Original Approved)	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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