	BUREAU VERITAS		
	RF Exposure Report		
Report No.:	SA170918D05		
FCC ID:	2AI9TOAW-AP125X		
Test Model:	OAW-AP1251		
Received Date:	May 8, 2017		
Test Date:	May 9 ~ Sep. 20, 2017		
Issued Date:	Nov. 16, 2017		
Applicant:	ALE USA Inc.		
Address:	26801 West Agoura Road, Calabasas, CA 91301		
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 (R.O.C.)		
FCC Registration / Designation Number:	198487 / TW2021		
	lac-MRA		
	Testing Laboratory 2021		
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Release Control Record

Issue No.	Description	Date Issued
SA170918D05	Original release.	Nov. 16, 2017



1 **Certificate of Conformity**

Product:	OmniAccess Stellar	
Brand:	Alcatel-Lucent Enterprise	
Test Model:	OAW-AP1251	
Sample Status:	Engineering sample	
Applicant:	ALE USA Inc.	
Test Date:	May 9 ~ Sep. 20, 2017	
Standards:	ndards: 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 EMC characteristics under the conditions specified in this report.

Prepared by :

nie Chang, Date: Nov. 16, 2017

Annie Chang / Senior Specialist

Approved by :

Date: Nov. 16, 2017

Rex Lai / Assistant 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					
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f ²)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

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 31cm 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	27.49	11.32	31	0.6296	1
5180-5240	13.87	9.98	31	0.0201	1
5745-5825	26.46	9.44	31	0.3222	1

NOTE:

2.4GHz Directional gain = 11.32dBi

5.180-5.240GHz Directional gain = 9.98dBi

5.745-5.825GHz Directional gain = 9.44dBi

The directional antenna gain information is declared by manufacturer and more detailed features description please refer to operation description of antenna specifications exhibit.

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 = 0.6296 + 0.3222 = 0.9518Therefore the maximum calculations of above situations are less than the "1" limit.

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