	BUREAU VERITAS
	Variant RF Exposure Report
Report No.:	SA170818C25B
FCC ID:	2ADWC-AI7697HD
Test Model:	AI7697HD
Received Date:	Agu. 30, 2018
Date of Evaluation:	Sep. 19, 2018
Issued Date:	Sep. 21, 2018
Applicant:	AcSiP Technology Corporation
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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, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)
FCC Registration / Designation Number:	
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Release Control Record					
Issue No.	Description			Date Issued	
Issue No. SA170818C25B	Description Original Release			Date Issued Sep. 21, 2018	
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Certificate of Conformity 1 Product: 802.11 IoT Module Brand: AcSiP Test Model: AI7697HD Sample Status: Production Unit Applicant: AcSiP Technology Corporation Date of Evaluation: Sep. 19, 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 EMC characteristics under the conditions specified in this report.

Prepared by :

Gina Liu / Specialist

Sep. 21, 2018

Approved by :

Date:

Dylan Chiou / 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							
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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

The antenna information is listed as below.

				Antenna Gain (dBi)		
SKU	Brand	rand Antenna Type Model		вт	WLAN	WLAN
				ы	2.4 GHz	5 GHz
1	Commel	Coupled	81.EKB15.G14	3.34	3.34	1.44
2	Compal	PIFA	DC33002520U	3.46	3.46	5.37



2.5 General Information

This report is issued as a supplementary report to BV CPS report no.: SA180818C25. The difference compared with original report is adding new antennas. Therefore, only conducted emission and radiated emission tests had been performed for this report. Therefore the EUT is re-calculations in this report.

2.6 Calculation Result of Maximum Conducted Power

SKU 1

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	2412-2462	24.49	3.34	20	0.121	1.00
WLAN	5180-5240	14.17	1.44	20	0.007	1.00
	5745-5825	14.35	1.44	20	0.008	1.00
BT	2402-2480	6.23	3.34	20	0.002	1.00

SKU 2

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
	2412-2462	24.49	3.46	20	0.124	1.00
WLAN	5180-5240	14.17	5.37	20	0.018	1.00
	5745-5825	14.35	5.37	20	0.019	1.00
BT	2402-2480	6.23	3.46	20	0.002	1.00

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