

RF Exposure Report			
Report No.:	SA180828C27		
FCC ID:	RYK-WPEQ261ACNIBT		
Test Model:	WPEQ-261ACNI(BT)		
Received Date:	Aug. 28, 2018		
Test Date:	Oct. 08 ~ Oct. 24, 2018		
Issued Date:	Nov. 23, 2018		
Applicant:	SparkLAN Communications, Inc.		
Address:	8F., No.257, Sec. 2, Tiding Blvd., Neihu District, Taipei City 11493, Taiwan (R.O.C.)		
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:	788550 / TW0003		



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Release Control Record				
Issue No.	Description			Date Issued
SA180828C27	Original release.			Nov. 23, 2018
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1 Certificate of Conformity Product: 802.11ac/a/b/g/n 2T2R Industrial-graded Wi-Fi / Bluetooth 4.2 Combo Half mini PCIe Module Brand: SparkLAN Test Model: WPEQ-261ACNI(BT) Sample Status: R&D sample Applicant: SparkLAN Communications, Inc. Test Date: Oct. 08 ~ Oct. 24, 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 :

Approved by :

Vertie Chan, Date:___, Date:___

Pettie Chen / Senior Specialist

e: Nov. 23, 2018

Zune Chen

Date: Nov. 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					
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

 $\begin{array}{l} \mathsf{Pd} = (\mathsf{Pout}^*\mathsf{G}) \ / \ (4^*\mathsf{pi}^*\mathsf{r}^2) \\ \mathsf{where} \\ \mathsf{Pd} = \mathsf{power} \ \mathsf{density} \ \mathsf{in} \ \mathsf{mW}/\mathsf{cm}^2 \\ \mathsf{Pout} = \mathsf{output} \ \mathsf{power} \ \mathsf{to} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{mW} \\ \mathsf{G} = \mathsf{gain} \ \mathsf{of} \ \mathsf{antenna} \ \mathsf{in} \ \mathsf{linear} \ \mathsf{scale} \\ \mathsf{Pi} = 3.1416 \\ \mathsf{R} = \mathsf{distance} \ \mathsf{between} \ \mathsf{observation} \ \mathsf{point} \ \mathsf{and} \ \mathsf{center} \ \mathsf{of} \ \mathsf{the} \ \mathsf{radiator} \ \mathsf{in} \ \mathsf{cm} \end{array}$

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)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2412~2462	18.45	5.0	20	0.044	1
WLAN 5180~5240	16.99	5.8	20	0.038	1
WLAN 5260~5320	16.83	5.8	20	0.036	1
WLAN 5500~5700	16.97	5.8	20	0.038	1
WLAN 5745~5825	16.82	5.8	20	0.036	1
BT LE 2402~2480	2.28	5.0	20	0.001	1
BT EDR 2402~2480	2.21	5.0	20	0.001	1

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