

RF Exposure Report

Report No.: SA190516C11

FCC ID: M82-WISE2834

Test Model: WISE-2834

Series Model: WISE-2834-EA, WISE-2834-CA (refer to item 3.1 for more details)

Received Date: May 16, 2019

Test Date: May 25 ~ Jul. 13, 2019

Issued Date: Jul. 18, 2019

Applicant: ADVANTECH CO., LTD

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SA190516C11	Original release.	Jul. 18, 2019

1 Certificate of Conformity

Product: Intelligent RFID Gateway

Brand: Advantech

Test Model: WISE-2834

Series Model: WISE-2834-EA, WISE-2834-CA

Sample Status: Engineering sample

Applicant: ADVANTECH CO., LTD

Test Date: May 25 ~ Jul. 13, 2019

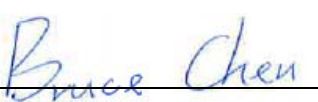
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

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 : , **Date:** Jul. 18, 2019
Polly Chien / Specialist

Approved by : , **Date:** Jul. 18, 2019
Bruce Chen / Senior 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 23cm 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)
Test Mode A (75kbps)					
920.75~ 927.25	27.92	8	23	0.588	0.614
Test Mode B (400kbps)					
920.75~ 927.25	27.67	8	23	0.555	0.614

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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