TEST REPORT

Applicant	Particle Industries,Inc
Address	325 9th Street, San Francisco, CA 94103 United States

Manufacturer or Supplier	Particle Industries,Inc
Address	325 9th Street, San Francisco, CA 94103 United States
Product	Wi-Fi Module
Brand Name	Particle
Model	P2
Additional Models & Model Difference	N/A
Date of tests	Feb. 21, 2021 ~ Apr. 06, 2022

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

☒ **EN 62479:2010**
☒ **EN 50663:2017**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
Lucas	Date: May 19, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SE2202WDG0092-1	Original release	May 19, 2022

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

PRODUCT	Wi-Fi Module
MODEL NO.	P2
ADDITIONAL MODEL	N/A
NOMINAL VOLTAGE	DC 3.3V
MODULATION TECHNOLOGY	DTS
MODULATION TYPE	BT-LE GFSK(1, 2 Mbps)
OPERATING FREQUENCY	2402MHz ~ 2480MHz
EIRP POWER	9.98dBm (Measured Max.)
ANTENNA TYPE	PCB Antenna, 2.41dBi Gain External PCB Antenna, 1.55dBi Gain

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2202WDG0092) for detailed product photo
4. The Wi-Fi Module uses two antennas, but couldn't transmit simultaneously, only the antenna type and gain are different.
5. The EUT provides completed transmitters and receivers, the EUT uses only one antenna at any time.

MODULATION MODE	TX FUNCTION
BLE (1&2Mbps)	1TX/1RX

2. RF EXPOSURE MEASUREMENT

2.1 INTRODUCTION

This International Standard provides simple conformity assessment methods for low-power electronic and electrical equipment to an exposure limit relevant to electromagnetic fields (EMF). If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the methods included in this standard for EMF assessment, then other standards, including IEC 62311 or other (EMF) product standards, may be used for conformity assessment. This European Standard supersedes EN 50371.

2.2 COMPLIANCE CRITERIA

Compliance of electromagnetic emissions from electronic and electrical equipment with the basic restrictions usually is determined by measurements and, in some cases, calculation of the exposure level. If the electrical power used by or radiated by the equipment is sufficiently low, the electromagnetic fields emitted will be incapable of producing exposures that exceed the basic restrictions. This standard provides simple EMF assessment procedures for this low power equipment.

Any relevant compliance assessment procedure which is consistent with the state of the art, reproducible and gives valid results can be used.

For transmitters intended for use with more than one antenna configuration option, the combination of transmitter and antenna(s) which generates the highest available antenna power and/or average total radiated power shall be assessed.

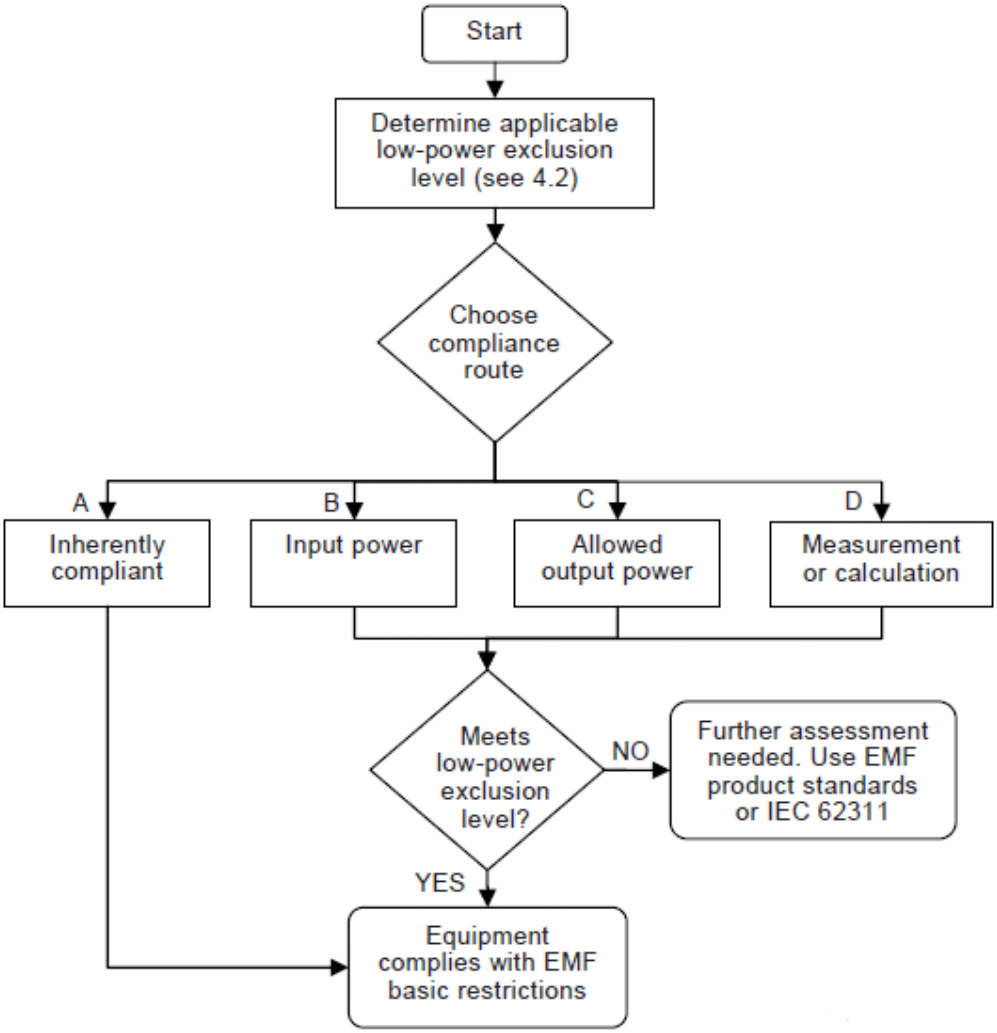
2.3 NORMATIVE REFERENCE

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Publication	Title	EN/HD
IEC 62311 (mod)	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz -300 GHz)	EN IEC 62311: 2020

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

2.4 ROUTES TO SHOW COMPLIANCE WITH LOW-POWER EXCLUSION LEVEL



2.5 TEST RESULTS

CALCULATION FOR MAXIMUM EIRP:

AV Power (EIRP)(dBm)	Power (EIRP)(mW)	Low-power exclusion level (mW)
9.98	9.954	20