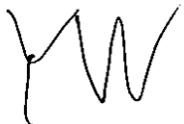





## Test Report

|   |  |  |              |
|---|--|--|--------------|
| Test Report No.:  | KTI17EF01002   |  |              |
| Registration No.:   | KR0023   |  |              |
| Applicant:  | Brilliantts Co.,Ltd  |  |              |
| Applicant Address:  | 10F, U_Space2 A-dong, 670, Daewangpangyo-ro, Bundang-gu, Seongnam-city,<br>Gyeonggi-do, 13494, Korea     |  |              |
| Product:  | Bluetooth  |  |              |
| FCC ID:   | 2AK3I- BPAY-CAG-01   | Model No.  | BPAY-CAG-01  |
| Receipt No.:  | KTI-17EK01002  | Date of Incoming:  | Jan 06, 2017 |
| Date of Issue:  | Feb 3, 2017  |  |              |
| Testing location  | Korea Technology Institute Co., Ltd.<br>58-10, Sagiso-gil, Docheok-myeon, Gwangju-si, Gyeonggi-do, Korea |  |              |
| Test Standards:   | FCC PART 15 SUBPART C Section 15.247   |  |              |
| Rule Parts: FCC   | ANSI C63.10: 2014  |  |              |
| Method of Measurement   | FCC Public Notice DA 00-705  |  |              |
| Test Result:  | The above-mentioned product has been tested with compliance.   |  |              |
| Tested by: W. J. Yun.<br>/ Engineer<br><br>Signature Date Feb 6, 2017  |  | Approved by: S. H. Song<br>/Technical Manager<br><br>Signature Date Feb 6, 2017 |              |
| Other Aspects:  |  |  |              |
| Abbreviations:  | * OK, Pass=passed * Fail=failed * N/A=not applicable   |  |              |
| <p>☞ - This test report is not permitted to copy partly without our permission.</p> <p>- This test result is dependent on only equipment to be used.</p> <p>- This test result is based on a single evaluation of one sample of the above mentioned.</p> <p>- This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.</p> <p>- We certify this test report has been based on the measurement standards that is traceable to the national or international standards.</p> |  |  |              |

**>>> Contents <<<**

|  |          |
|--|----------|
| <b>1. Verification of compliance</b>   | <b>3</b> |
| <b>2. General Information</b>          | <b>4</b> |
| <b>3. EUT MODIFICATIONS</b>            | <b>4</b> |
| <b>4. MAXIMUM PERMISSIBLE EXPOSURE</b> | <b>5</b> |



## 1. Verification of compliance

Applicant : Brilliantts Co.,Ltd

Address : 10F, U\_Space2 A-dong, 670, Daewangpangyo-ro,  
Bundang-gu, Seongnam-city, Gyeonggi-do, 13494, Korea

FCC ID : 2AK3I-BPAY-CAG-01

Model Name : BPAY-CAG-01

Brand Name :  BrilliantTS

Serial Number : N/A

Test Date : Jan 08, 2017

|  |                                      |
|--|--------------------------------------|
| Equipment Class                                      | DTS – DIGITAL TRNSMISSION SYSTEM     |
| Kind of Equipment                                    | Bluetooth                            |
| Measurement Procedures                               | ANSI C63.10: 2014                    |
| Type of Equipment Tested                             | Pre-Production                       |
| Kind of Equipment Authorization Requested            | Certification                        |
| Equipment Will Be Operated Under FCC Rules Part(s)   | FCC PART 15 SUBPART C Section 15.247 |
| Modifications On The Equipment To Achieve Compliance | None                                 |
| Final Test was Conducted On                          | 10m Open area test site              |

- The above equipment was tested by Korea Technology Institute Co., Ltd. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanation from equipment are within the compliance requirements.



## **2. General Information**

### **2.1 Product Description**

BPAY-CAG-01 (referred to in this report as EUT) is used as a Smart Multi Card

The product specification described herein was obtained from product data sheet or user's manual.

|                                     |                              |
|-------------------------------------|------------------------------|
| Equipment Name                      | Smart Multi Card             |
| Operating Frequency                 | 2402 MHz ~ 2480 MHz          |
| RF Output Power                     | -6.09 dBm                    |
| Number of Channel                   | 39 Channels                  |
| Modulation Type                     | GFSK                         |
| Antenna Type / Gain                 | PCB Antenna / 0.75 dBi (Max) |
| List of Each OSC. Or Crystal. Freq. | 32 MHz                       |
| Rated Supply Voltage                | DC 3.8 V                     |

**Alternative type(s)/model(s); also covered by this test report.**

**- None**

## **3. EUT MODIFICATIONS**

**- None**



#### 4. MAXIMUM PERMISSIBLE EXPOSURE

##### RF Exposure Calculation

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm<sup>2</sup> for the device operating 1 500 ~ 100 000 MHz.

##### EUT Description

|                                |   |
|--------------------------------|---|
| Kind of EUT                    | Smart Multi Card  |
| Operating Frequency Band       | <input type="checkbox"/> Wireless Microphone: 494.000 MHz ~ 501.000 MHz<br>and 498.200 MHz ~ 505.200 MHz<br><input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz<br><input type="checkbox"/> WLAN: 5 180 MHz ~ 5 240 MHz<br><input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz<br><input type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz<br><input checked="" type="checkbox"/> Bluetooth BLE: 2 402 MHz ~ 2 480 MHz |
| MAX. RF OUTPUT                 | -6.09 dBm   |
| Antenna Gain                   | 0.75 dBi  |
| Exposure<br>Evaluation Applied | <input type="checkbox"/> MPE<br><input type="checkbox"/> SAR<br><input checked="" type="checkbox"/> N/A   |

##### Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is  

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Mim. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (1.2/5) \times \sqrt{2.402} = 0.37$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

|               | Frequency<br>(MHz) | Target Power<br>W/tolerance<br>(dBm) | Max tune up<br>power<br>(dBm) | Max tune up<br>power<br>(mW) | Separation<br>distance<br>(mm) | RF<br>exposure |
|---------------|--------------------|--------------------------------------|-------------------------------|------------------------------|--------------------------------|----------------|
| BLE<br>(GFSK) | 2 402              | 1.0 ± 1.0                            | 0.8                           | 1.2                          | 5                              | 0.37           |