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# RF Exposure Evaluation Report

**Report No.:** CQASZ20200700653E-02  
**Applicant:** BRYDGE GLOBAL  
**Address of Applicant:** 1912 Sidewinder Dr#104, Park City, Utah United States 84060  
**Equipment Under Test (EUT):**  
**EUT Name:** Bluetooth Keyboard  
**Mode No.:** BRYTP401N  
**Brand Name:** BRYDGE  
**FCC ID:** 2ADRG-BRYTP401N  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2020-06-09  
**Date of Test:** 2020-06-09 to 2020-07-13  
**Date of Issue:** 2020-07-15  
**Test Result:** **PASS\***

\* In the configuration tested, the EUT complied with the standards specified above.

**Tested By:** Tom Chen.  
(Tom Chen)  
**Reviewed By:** Sheek Luo  
(Sheek Luo)  
**Approved By:** Jack Ai  
(Jack Ai)



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200700653E-02	Rev.01	Initial report	2020-07-15

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### 3 General Information

#### 3.1 Client Information

Applicant:	BRYDGE GLOBAL
Address of Applicant:	1912 Sidewinder Dr#104, Park City, Utah United States 84060
Manufacturer:	BRYDGE TECHNOLOGIES LLC
Address of Manufacturer:	1912 Sidewinder Dr#104, Park City, UT 84060 U.S.A
Factory:	DONGGUAN MAE TAY ELECTRONIC CO., LTD.
Address of Factory:	Beihuanlu Industrial Area, Changping Town, Dongguan, Guangdong, 523560, P.R.C.

#### 3.2 General Description of EUT

Product Name:	Bluetooth Keyboard
Model No.:	BRYTP401N
Trade Mark:	BRYDGE
Hardware Version:	V1.1
Software Version:	V0.3
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	nRFgo Studio (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	1.87dBi
EUT Power Supply:	lithium battery: DC 3.85V, 900mAh, Charge by DC 5V

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### 4.1.3 EUT RF Exposure

#### Measurement Data

##### 1) For BLE

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-5.18	-6.0±1	-5.0	0.316
Middle(2440MHz)	-5.79	-6.5±1	-5.5	0.282
Highest(2480MHz)	-5.5	-6.0±1	-5.0	0.316

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-5.18	-6.0±1	-5.0	0.316	0.098	3.0
Middle (2440MHz)	-5.79	-6.5±1	-5.5	0.282	0.088	
Highest (2480MHz)	-5.5	-6.0±1	-5.0	0.316	0.100	
Conclusion: the calculated value $\leq 3.0$ , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200700653E-01.