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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:	☐ Mobile ☒ Portable ☐ 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 ≤ 50 mm are determined by:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 ≤3.0, SAR is exempted.						

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