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# RF Exposure Evaluation Report

**Report No.:** CQASZ20210100047E-02  
**Applicant:** KINGTA TECHNOLOGY CO., LTD  
**Address of Applicant:** 4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen China  
**Equipment Under Test (EUT):**  
**EUT Name:** BLUETOOTH SPEAKER  
**Model No.:** B28, SP694, SP694-ASST  
**Test Model No.:** B28  
**Brand Name:** N/A  
**FCC ID:** N7KB28  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-01-18  
**Date of Test:** 2021-01-18 to 2021-02-05  
**Date of Issue:** 2021-02-05  
**Test Result:** **PASS\***

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

**Tested By:**

*Tiny You*

(Tiny You)

**Reviewed By:**

*Ares Liu*

(Ares Liu)

**Approved By:**

*Sheek Luo*

(Sheek Luo)



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210100047E-02	Rev.01	Initial report	2021-02-05

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### 3 General Information

#### 3.1 Client Information

Applicant:	KINGTA TECHNOLOGY CO., LTD
Address of Applicant:	4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen China
Manufacturer:	KINGTA TECHNOLOGY CO., LTD
Address of Manufacturer:	4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen China
Factory:	KINGTA TECHNOLOGY CO., LTD
Address of Factory:	4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen China

#### 3.2 General Description of EUT

Product Name:	BLUETOOTH SPEAKER
All Model No.:	B28, SP694, SP694-ASST
Test Model No.:	B28
Trade Mark:	N/A
Hardware Version:	B28-3265-8105-FM-MAIN V1
Software Version:	e21d
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Software of EUT:	BK32xx RF Test_V1.8 (manufacturer declare )
Antenna Type:	Monoploe antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

## 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:

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

#### 1) For BT

#### Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.780	-0.5±1	0.5	1.122
Middle(2441MHz)	-0.560	-0.5±1	0.5	1.122
Highest(2480MHz)	-0.470	-0.5±1	0.5	1.122
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.700	0.5±1	1.5	1.413
Middle(2441MHz)	0.880	0.5±1	1.5	1.413
Highest(2480MHz)	0.940	0.5±1	1.5	1.413
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.060	1.0±1	2.0	1.585
Middle(2441MHz)	1.210	1.0±1	2.0	1.585
Highest(2480MHz)	1.270	1.0±1	2.0	1.585

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.060	1.0±1	2.0	1.585	0.491	3.0
Middle (2441MHz)	1.210	1.0±1	2.0	1.585	0.495	
Highest (2480MHz)	1.270	1.0±1	2.0	1.585	0.499	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210100047E-01