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# RF Exposure Evaluation Report

**Report No. :** CQASZ20200800932E-03  
**Applicant:** MOKO TECHNOLOGY LIMITED  
**Address of Applicant:** 2F, Building1, No.37 Xixintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Bluetooth Module  
**Model No.:** MK01  
**Brand Name:** N/A  
**FCC ID:** 2AO94-MK01  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Test:** 2020-08-18 to 2020-09-03  
**Date of Issue:** 2020-09-22  
**Test Result :** PASS\*

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

**Tested By:**

Jun Li

( Jun Li )

**Reviewed By:**

Sheek, Luo

(Sheek Luo)

**Approved By:**

Jack Ai

( Jack Ai )



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200800932E-03	Rev.01	Initial report	2020-9-22

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### 3 General Information

#### 3.1 Client Information

Applicant:	MOKO TECHNOLOGY LIMITED
Address of Applicant:	2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China
Manufacturer:	MOKO TECHNOLOGY LIMITED
Address of Manufacturer:	2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China
Factory:	MOKO TECHNOLOGY LIMITED
Address of Factory:	2F, Building1, No.37 Xiaxintang Xintang village, Fucheng Street, Longhua District, Shenzhen, Guangdong Province, China

#### 3.2 General Description of EUT

Product Name:	Bluetooth Module
Model No.:	MK01
Trade Mark:	N/A
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channel:	40
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Antenna Type:	Ceramic antenna
Antenna Gain:	0.9 dBi gain
EUT Power Supply:	DC 3.3V

## 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:

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

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

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

##### Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.12	0.5±1	1.5	1.413
Middle(2440MHz)	2.34	2.5±1	3.5	2.239
Highest(2480MHz)	2.95	2.5±1	3.5	2.239

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)	0.12	0.5±1	1.5	1.413	0.438	3.0
Middle (2440MHz)	2.34	2.5±1	3.5	2.239	0.699	
Highest (2480MHz)	2.95	2.5±1	3.5	2.239	0.705	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200800932E-01