

MPE REPORT

Report No.: SRTC2020-9004(F)-20051802(D)

Product Name: BR2262e

Product Model: BR2262e/BR2266e/BR2220e

Applicant: CHONGQING BARROT TECHNOLOGY LIMITED

Manufacturer: CHONGQING BARROT TECHNOLOGY LIMITED

Specification: FCC Part §2.1091, §2.1093, §1.1307(b), §1.1310 (2019)

FCC ID: 2AOXV-BR2262E

The State Radio_monitoring_center Testing Center (SRTC)

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1 GENERAL INFORMATION

1.1 Notes of the test report

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1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
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1.3 Applicant's details

Company:	CHONGQING BARROT TECHNOLOGY LIMITED
Address:	1st Floor,B1-1 Building,No.99 Shujugu zhong road, Xiantao Street, Yubei District, Chongqing, China.
City:	Chongqing
Country or Region:	China
Contacted person:	Kerlwin Qiu
Tel:	010-62981420
Fax:	---
Email:	bluetooth@barrot.com.cn

1.4 Manufacturer's details

Company:	CHONGQING BARROT TECHNOLOGY LIMITED
Address:	1st Floor,B1-1 Building,No.99 Shujugu zhong road, Xiantao Street, Yubei District, Chongqing, China.
City:	Chongqing
Country or Region:	China
Contacted person:	Kerlwin Qiu
Tel:	010-62981420
Fax:	---
Email:	bluetooth@barrot.com.cn

2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Frequency Range	2.402GHz~2.480GHz
Number of Channel	40
Modulation Type	GFSK
Equipment Class	DTS
Channel Spacing	2MHz
Data Rate	1Mbps
Power Supply	DC Supply
HW Version	BB
SW Version	BR2262e-s_00_200323_r4260
Sample	Sample1
Antenna type	Refer to Note
Antenna connector	Refer to Note

Note: Antenna requirement (FCC part 15.203)

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The antenna(s) of the EUT are permanently attached.
- There are no provisions for connection to an external antenna.

Note: The antenna provide to the EUT, please refer to the following table:

Brand	Model	Antenna gain	Frequency range(GHz)	Antenna type	Connector Type
N/A	N/A	2.0dBi	2.402GHz~2.480GHz	Fixed Internal Antenna	N/A

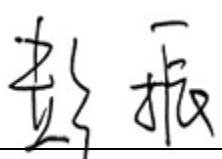
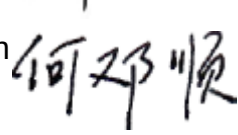
Manufacturers ensure that their designs will not be modified by the user or third parties arbitrary antenna parameters and performance. The EUT complies with the requirement of §15.203.

3 REFERENCE SPECIFICATION

Specification	Version	Title
2.1091	2019	Radio frequency radiation exposure evaluation: mobile devices.
2.1093	2019	Radio frequency radiation exposure evaluation: portable devices.
1.1307(b)	2019	Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
1.1310	2019	Radio frequency radiation exposure limits.
KDB447498	October 23, 2015	RF exposure procedures and equipment authorization policies for mobile and portable devices

4 RESULT SUMMARY

No.	Test case	FCC reference
1	MPE Calculation	FCC Part §2.1091, FCC Part §2.1093, FCC Part §1.1307(b) FCC Part §1.1310 KDB 447498

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. He Dengshun 	Issued date: 20200615

5 TEST RESULTS

5.1 Average Power Output Test Result

BT BLE output power

Modulation type	Average Power Output (dBm)		
	2402MHz (Ch0)	2440MHz (Ch19)	2480MHz (Ch39)
GFSK (LE 1Mbps)	-1.59	-1.87	-2.06
Tune-up tolerance	-3.0~-1.0		

5.2 Calculation result

According to the KDB447498 4.3.1(a)

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g 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
- 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 according to 4.1 f) is applied to determine SAR test exclusion.

Summary of Transmitters

Mode/Band	Freq (GHz)	Max. power of channel, including tune-up tolerance, (dBm)	Max. power of channel, including tune-up tolerance, (mW)	Min. test separation distance, (mm)	The calculation results (1g)	SAR test exclusion Threshold (1g)	SAR Required
Bluetooth	2.440	-1.0	0.80	5	0.25	≤ 3.0	No

---End of Test Report---