

RF Exposure Evaluation Report

Under :
47 CFR Part 2.1093
KDB447498 D01 General RF Exposure Guidance v06

Prepared For:
**YEALINK (XIAMEN) NETWORK
TECHNOLOGY CO., LTD.**
309, 3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, China

FCC ID: T2C-BT42
EUT: Bluetooth USB Dongle
Model: BT42

July 29, 2019 Issue Date:
Original Report Report Type:
 Test Engineer: Jacky Huang
 Review By: Apollo Liu / Manager

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Report Revision History

Report #	Version	Description	Issued Date
KSZ2019062702J02	Rev.01	Initial issue of report	July 29, 2019

1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.6. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1.2 Testing Laboratory

Test Firm Name:	Ke Mei Ou Lab Co., Ltd.
Test Firm Address:	2013-2016, 20th Floor, Business Center, Jiahui Xin Cheng, No 3027, Shen Nan Road, Fu Tian, Shen Zhen, Guang Dong, P. R. China
FCC Designation Number:	CN1532
Test Firm Registration Number:	344480
Internet:	www.kmolab.com
Email:	kmo@kmolab.com
ANSI-ASQ National Accreditation Board/ACCLASS ISO/IEC 17025 Accredited Lab for telecommunication standards. The Registration Number is AT-1532. The testing quality system meets with ISO/IEC-17025 requirements, This approval results is accepted by MRA of ILAC.	

1.3 Detail. 3 Details of Applicant

Name: YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address: 309, 3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, China

1.4 Application Details

Date of Receipt of Application: June 27, 2019
Date of Receipt of Test Item: July 4, 2019
Date of Test : July 4~July 23, 2019

1.5 Details of Manufacturer

Name: Same as applicant
Address: Same as applicant

1.6 Test Item

EUT Feature	
EUT Description:	Bluetooth USB Dongle
Brand Name:	Yealink
Model Name:	BT42
EUT RF Technology:	☒ Bluetooth BT ☐ Bluetooth v4.0 LE ☐ Bluetooth v4.2 LE ☐ Bluetooth v5.0 LE
HW Version:	WF50V
SW Version:	BT42
EUT Stage:	☒ Identical Prototype ☐ Production
Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.	

Additional Information

Standard Product Specification	
Tx/Rx Frequency Range	2402~2480 MHz
Number of Channels	79
Carrier Frequency of Each Channel	f=2402+k MHz (k=0,1,2,...,78)
Antenna Type / Gain	Internal PCB Antenna / gain 3 dBi
Type of Modulation	Bluetooth BR 1Mbps: GFSK Bluetooth EDR 2Mbps: $\pi/4$ -DQPSK Bluetooth EDR 3Mbps: 8DPSK
EUT Operational Condition	☐ AC
	☒ DC $\rightarrow$ ☐ From Battery ☒ External AC adapter ☐ POE ☒ PC
	☐ Li-ion battery

1.7 Applicable Standards

Applicable Standards
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards: 47 CFR Part 2.1093 KDB447498 D01 General RF Exposure Guidance v06
Note: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Technical Test

2.1 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC Rules	Test Type	Limit	Result	Notes
KDB 447498 Section: 4.3.1.	SAR Exclusion	≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,	PASS	Complies.

3. EUT Modifications

No modification by test lab.

4. General SAR test exclusion guidance

4.1_4.3.1 Standalone SAR test exclusion considerations (FCC)

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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

4.2_4.3.1 RF Exposure Requirements

RF Exposure Requirements	
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: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR, where}$ ● $f(\text{GHz})$ is the RF channel transmit frequency in GHz ● Power and distance are rounded to the nearest mW and mm before calculation³¹ ● The result is rounded to one decimal place for comparison ● The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below 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.	

4.3 Conclusion

☒	During normal operation, user extremities can come within 20 cm of the internal antenna and therefore product is considered as “Portable”.
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Compliance with FCC Rules				
Mode/Band	Maximum tune-up Conducted Power (dBm)	Test Separation (mm)	Calculate Value	Exclusion Threshold
2402~2480MHz CH00_2402MHz	3.92	5	0.76	3.0

-----End of Report -----