

TEST REPORT

Product Name : Bluetooth speaker with TWS Earbuds
Brand Mark : DOAGEAS
Model No. : BT07
FCC ID : 2AQ2W-BT07
Report Number : BLA-EMC-202111-A4303
Date of Sample Receipt : 2021/11/9
Date of Test : 2021/11/10 to 2021/11/17
Date of Issue : 2021/11/17
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

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Prepared by:

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2021/11/17



REPORT REVISE RECORD

Version No.	Date	Description
00	2021/11/17	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASA

2 GENERAL INFORMATION

Applicant	Shenzhen Doageas Technology Co., Ltd.
Address	5/F,4th Bldg ,Hedian Industrial Park,Guanlan,Longhua, Shenzhen,Guangdong518110,China
Manufacturer	Shenzhen Doageas Technology Co., Ltd.
Address	5/F,4th Bldg ,Hedian Industrial Park,Guanlan,Longhua, Shenzhen,Guangdong518110,China
Factory	Shenzhen Doageas Technology Co., Ltd.
Address	5/F,4th Bldg ,Hedian Industrial Park,Guanlan,Longhua, Shenzhen,Guangdong518110,China
Product Name	Bluetooth speaker with TWS Earbuds
Test Model No.	BT07

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	DGLS-BT07-E5-3.0
Software Version	V1.0
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, p/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB Antenna
Antenna Gain:	3dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
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No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

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.

5.2 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:

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

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

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

5.3 EUT RF EXPOSURE

Operational Mode: BT(8DPSK)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	0.037	±1	1.037	1.27	0.39	3.0
2441 MHz	0.508	±1	1.508	1.42	0.44	
2480 MHz	0.185	±1	1.185	1.31	0.41	
Conclusion: the calculated value ≤3.0. SAR is exempted.						

----END OF REPORT----

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