

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTWG22060436-H**

**FCC ID**..... : **2A7R5-DR8BTS**

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Date of issue.....: **July 10,2022**

**Representative Laboratory Name .:** **Shenzhen Most Technology Service Co., Ltd.**

Address .....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**.....: **DB RESEARCH L.L.P**

Address .....: **302 Hanmore Industrial Parkway,Harlingen,TX78550,USA**

**Test specification/ Standard** .....: **47 CFR Part 1.1307**

**47 CFR Part 2.1093**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: Portable Speaker

Trade Mark .....: DRIVEN

Manufacturer .....: **Wonders Technology Co., Ltd**

Model/Type reference.....: **DR8BTS**

Listed Models .....: N/A

Modulation Type .....: GFSK,  $\pi/4$ DQPSK, 8DPSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version.....: VER: 1.0

Software Version .....: V2.1.2

Rating .....: DC 12V

.....: DC5V (by USB)

.....: DC 3.7V by Battery

**TEST REPORT**

Equipment under Test : Portable Speaker

Model /Type : **DR8BTS**

Listed Models : N/A

Remark : N/A

Applicant : **DB RESEARCH L.L.P**

Address : **302 Hanmore Industrial Parkway,Harlingen,TX78550,USA**

Manufacturer : **Wonders Technology Co., Ltd**

Address : **4/F,Tower A,3rd Building,Tian'an Cloud Park,Bantian Avenue,  
Longgang District ,Shenzhen 518129,China**

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2022.07.10	Initial Issue	Alisa Luo

## **2. SAR Evaluation**

### **2.1 RF Exposure Compliance Requirement**

#### **2.1.1 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.

#### **2.1.2 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:

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

## 2.1.3 EUT RF Exposure

## Measurement Data

BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-2.15	$-2.15 \pm 1$	-1.15
Middle(2440MHz)	-3.02	$-3.02 \pm 1$	-2.02
Highest(2480MHz)	-3.56	$-3.56 \pm 1$	-2.56

$\pi$ /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.79	$-0.79 \pm 1$	0.21
Middle(2440MHz)	-1.55	$-1.55 \pm 1$	-0.55
Highest(2480MHz)	-2.12	$-2.12 \pm 1$	-1.12

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.55	$-0.55 \pm 1$	0.45
Middle(2440MHz)	-1.24	$-1.24 \pm 1$	-0.24
Highest(2480MHz)	-2.33	$-2.33 \pm 1$	-1.33

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2402MHz)	-0.55	0.45	1.11	0.340	3.0	Yes

.....THE END OF REPORT.....