Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No..... :	**MTEB24100161-H**
FCC ID..... :	**2BEUS-G2**
Compiled by (position+printed name+signature).. :	File administrators Alisa Luo
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng
Approved by (position+printed name+signature).. :	Manager Yvette Zhou
Date of issue.....:	**Oct. 22,2024**

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.....:	**Shenzhen Fuyou Information Technology Co., Ltd.**
Address..... :	4th Floor, 435, Innovation Plaza, Zhihui Valley, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.518000
Test specification/ Standard.....**:**	**47 CFR Part 1.1307**
	47 CFR Part 2.1093
TRF Originator.....:	Shenzhen Most Technology Service Co., Ltd.

Test item description.....:	Helmet Intercom Headset
Trade Mark.....:	GEARELEC
Model/Type reference..... :	G2
Listed Models ..... :	G2 Pro、GX4、GX4 Pro
Modulation Type..... :	GFSK, π/4DQPSK, 8DPSK
Operation Frequency..... :	From 2402MHz to 2480MHz
Hardware Version.....	V1.5
Software Version.....	V2.0
Rating.....:	DC 3.7V by Battery DC 5V by USB Port
Result.....:	PASS

TEST REPORT

Equipment under Test	:	Helmet Intercom Headset
Model /Type	:	G2
Listed Models	:	G2 Pro、GX4、GX4 Pro
Remark		Only the model names and appearance color is different.
Applicant	:	Shenzhen Fuyou Information Technology Co., Ltd.
Address	:	4th Floor, 435, Innovation Plaza, Zhihui Valley, Minzhi Street, Longhua District, Shenzhen, Guangdong Province, China.518000
Manufacturer	:	Shenzhen Houtonsen Electronics Co., Ltd.
Address	:	Room 4A402, Building 1, No. 309 Ping'an Avenue, Liangtiandian Community, Pinghu Subdistrict, Longgang District, Shenzhen City, Guangdong Province, China.

Test Result:	**PASS**

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	2024.10.22	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 ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
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

2.1.3 EUT RF Exposure

Measurement Data

Antenna A BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-3.946	-3.946±1	-2.946
Middle(2441MHz)	-3.696	-3.696±1	-2.696
Highest(2480MHz)	-3.605	-3.605±1	-2.605

π /4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-3.097	-3.097±1	-2.097
Middle(2441MHz)	-2.815	-2.815±1	-1.815
Highest(2480MHz)	-2.701	-2.701±1	-1.701

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-2.618	-2.618±1	-1.618
Middle(2441MHz)	-2.349	-2.349±1	-1.349
Highest(2480MHz)	-2.242	-2.242±1	-1.242

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	-2.242	-1.242	0.75	0.24	3.0	Yes

Antenna B BT classic

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-1.277	-1.277±1	-0.277
Middle(2441MHz)	-1.736	-1.736±1	-0.736
Highest(2480MHz)	-2.476	-2.476±1	-1.476

π/4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-0.405	-0.405±1	0.595
Middle(2441MHz)	-0.858	-0.858±1	0.142
Highest(2480MHz)	-1.552	-1.552±1	-0.552

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-0.013	-0.013±1	0.987
Middle(2441MHz)	-0.429	-0.429±1	0.571
Highest(2480MHz)	-1.169	-1.169±1	-0.169

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Highest(2480MHz)	-0.013	0.987	1.26	0.39	3.0	Yes

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