

RF Exposure Evaluation Report				
Report Reference No	MTEB24070415-H 2AWYH-RUGGEDBT3			
Compiled by (position+printed name+signature):	File administrators Alisa Luo			
Supervised by (position+printed name+signature):	Test Engineer Sunny Deng	Sunny Deng		
Approved by (position+printed name+signature):	Manager Yvette Zhou	Aisa Luc Sunny Deng Jutter		
Date of issue:	July 29,2024			
Representative Laboratory Name .:	presentative 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	Rugged Radios			
Address	509 Traffic Way Arroyo Grande California United States 93420			
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:	HELMET BLUETOOTH HEADS	ET		
Trade Mark:	Rugged Radios			
Model/Type reference:	RUGGED BT3			
Listed Models	BT2UP			
Modulation Type	GFSK			
Operation Frequency	From 2402MHz to 2480MHz			
Hardware Version	V20			
Software Version	V02			
Rating:	DC 3.7V by Battery DC 5V by USB Port			
Result	PASS			

TEST REPORT

Equipment under Test	:	HELMET BLUETOOTH HEADSET
Model /Type	:	RUGGED BT3
Listed Models	:	BT2UP
Remark		Difference in Appearance and model names
Applicant	:	Rugged Radios
Address	:	509 Traffic Way Arroyo Grande California United States 93420
Manufacturer	:	SUCCESS ETC TECHNOLOGY CO., LTD
Address	:	3 rd floor,No.33,Ansheng Rd,Maan Hill,Shajing,Baoan Dist, Shenzhen

Test Result:	PASS
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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. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2024.07.29	Initial Issue	Alisa Luo

2. <u>SAR Evaluation</u>

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 calculation¹⁷

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

EDR

GFSK					
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2402MHz)	-1.227	-1.227±1	-0.227		
Middle(2441MHz)	-0.941	-0.941 ± 1	0.059		
Highest(2480MHz)	-1.576	-1.576±1	-0.576		

Worst case: GFSK						
Channel Conducted Powe	Maximum Peak Conducted Output	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
	Power (dBm)	(dBm) (mW)				
Middle(2441MHz)	-0.941	0.059	1.01	0.32	3.0	Yes

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