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..... :	**MTEB25010130-H**	
FCC ID..... :	**2AIUT-MG5MX50**	
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.....:	**Jan.16,2025**	

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.....:	**Eastern Partner Ltd**
Address..... :	Room 1413, ICC Tower, Fuhau San Road Futian CBD, Shenzhen 518048, China
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.....:	GAUGE HOLE MARINE RADIO
Trade Mark.....:	DUAL
Model/Type reference..... :	MGH5
Listed Models ..... :	MXSGH50
Modulation Type..... :	GFSK, π/4DQPSK,8DPSK
Operation Frequency..... :	From 2402MHz to 2480MHz
Hardware Version.....	MGH5 C200 V2501154
Software Version.....	MGH5 V202412244
Rating.....:	DC 12V by DC Source
Result.....:	PASS

T E S T R E P O R T

Equipment under Test	:	GAUGE HOLE MARINE RADIO
Model /Type	:	MGH5
Listed Models	:	MXSGH50
Remark		Only the model “ MGH5 ” was tested, Their electrical circuit design, layout, components used and internal wiring are identical, Only the model name is different.
Applicant	:	**Eastern Partner Ltd**
Address	:	Room 1413, ICC Tower, Fuhau San Road Futian CBD, Shenzhen 518048, China
Manufacturer	:	**Eastern Partner Ltd**
Address	:	Room 1413, ICC Tower, Fuhau San Road Futian CBD, Shenzhen 518048, 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	2025.01.16	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

EDR

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	-0.871	-0.871±1	0.129
Middle(2441MHz)	-1.359	-1.359±1	-0.359
Highest(2480MHz)	-1.887	-1.887±1	-0.887

π/4DQPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	0.018	0.018±1	1.018
Middle(2441MHz)	-0.524	-0.524±1	0.476
Highest(2480MHz)	-1.026	-1.026±1	-0.026

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	0.411	0.411±1	1.411
Middle(2441MHz)	-0.186	-0.186±1	0.814
Highest(2480MHz)	-0.704	-0.704±1	0.296

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	0.411	1.411	1.38	0.43	3.0	Yes

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