

TEST REPORT

For RF Expose

Report No..... : CHTW25090090

Project No : SHT2508094503W

FCC ID : SK4BCR-GMRS

Applicant's name..... : BridgelP, LLC

Address : 113 S. Bridge St. Smithville Missouri 64089 United States

Product Name : GMRS Repeater

Trade Mark..... : BridgeCom System, 

Model No..... : BCR-GMRS

Listed Model(s) : -

Standard..... : **FCC Part 2 (Section 2.1091)**

Date of receipt of test sample..... : 2025/09/01

Date of testing..... : 2025/09/01- 2025/11/10

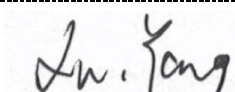
Date of issue..... : 2025/11/11

Result..... : **Pass**



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Testing Laboratory Name..... : Shenzhen Huatongwei International Inspection Co., Ltd.

Address : Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

Test Report Form No. : R0066

Test Report Form(s) Originator..... : Shenzhen Huatongwei International Inspection Co., Ltd.

Master TRF : Dated 2025-07

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Contents

<u>1.</u>	<u>TEST STANDARDS AND REPORT VERSION</u>	<u>3</u>
1.1.	Test standards	3
1.2.	Report version information	3
<u>2.</u>	<u>SUMMARY</u>	<u>4</u>
2.1.	Client Information	4
2.2.	Product Description	4
2.3.	Radio Specification Description	4
2.4.	Testing Laboratory Information	4
<u>3.</u>	<u>RF EXPOSURE</u>	<u>5</u>
<u>4.</u>	<u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u>	<u>6</u>

1. TEST STANDARDS AND REPORT VERSION

1.1. Test standards

The tests were performed according to following standards:

[FCC Part 2 \(Section 2.1091\)](#)- Radiofrequency radiation exposure evaluation: mobile devices.

[KDB 447498 D04 Interim General RF Exposure Guidance v01](#)- RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices

[FCC Part 1 \(Section 1.1307\)](#)- Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2025-11-11	Original

2. SUMMARY

2.1. Client Information

Applicant:	BridgeIP, LLC
Address:	113 S. Bridge St. Smithville Missouri 64089 United States
Manufacturer:	BridgeIP, LLC
Address:	113 S. Bridge St. Smithville Missouri 64089 United States
Factory:	BridgeIP, LLC
Address:	113 S. Bridge St. Smithville Missouri 64089 United States

2.2. Product Description

Product name:	GMRS Repeater
Trade mark:	BridgeCom System, 
Model No.:	BCR-GMRS
Listed model(s):	-
Power supply:	DC 13.8V or AC 110V
EXPOSURE	☐ Occupational/Controlled ☒ General Population/Uncontrolled
Hardware version:	H2.1.6.8(U1)
Software version:	S0.4.58DU1GD

2.3. Radio Specification Description

Support Frequency Range:	462MHz Main channel: 462.5500, 462.5750, 462.6000, 462.6250, 462.6500, 462.6750, 462.7000, 462.7250MHz
Modulation Type:	FM
Emission Designator:	11K0F3E,16K0F3E

Note #1: Please refer to RF report for detailed technical specifications

2.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China
Contact information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn

3. RF EXPOSURE

LIMIT

© **Single transmitter:**

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500	-	-	f/300	6
1500–100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

© **Simultaneous transmission:**

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤1.0.

EVALUATION METHOD

Transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², **P_{out}** = output power to antenna in mW, **G** = gain of antenna in linear scale;

P_i = 3.1416, **R** = distance between observation point and center of the radiator in cm

TEST RESULT
☒ **Passed** ☐ **Not Applicable**

Radio Type	Frequency range (MHz)	Conduct ed Power (dBm)	Maximum Tune-up (dBm)	Antenna Gain(dBi)	r(m)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
GMRS	462.55-462.725	46.82	46.90	10	3.60	0.3009	0.3080	Pass
GMRS	462.55-462.725	46.82	46.90	5	2.05	0.2932	0.3080	Pass
GMRS	462.55-462.725	46.82	46.90	2	1.45	0.2930	0.3080	Pass
GMRS	462.55-462.725	46.82	46.90	0	1.15	0.2949	0.3080	Pass
GMRS	462.55-462.725	46.82	46.90	-2	0.90	0.3033	0.3080	Pass
PMR	462.55-462.725	46.82	46.90	-5	0.65	0.2953	0.3080	Pass
PMR	462.55-462.725	46.82	46.90	-10	0.36	0.3009	0.3080	Pass

Note:

- 1) *r* is the distance from observation point to the antenna which is declared by the applicant.
- 2) *: refer to the RF report.

If the gain of the antenna is 2dBi, the separation distance is at least 1.45m from body and the antenna, so meet this standard requirement.

4. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. CHTW25090089

-----End of Report-----