



RF EXPOSURE REPORT

For

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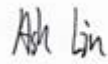
Report Type:	Product Name:
Original Report	GMRS MOBILE RADIO
Report Number:	2507A11393E-RF-03
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507A11393E-RF-03	R1V1	2026-02-02	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Product Name:	GMRS MOBILE RADIO
Tested Model:	KG-XS30G
Multiple Model(s):	KG-XS30G Plus, KG-XS30G+, KG-XS30GR, KG-XS30GX, KG-XS30GR Plus, KG-XS30GX Plus
Trade Mark:	WOUXUN
Power Supply:	DC 13.8V from vehicle system or DC source
Maximum Peak Conducted Output Power:	BLE: -0.55dBm BT: 0.07dBm GMRS: 45.13dBm
Frequency Range:	BT/BLE: 2402-2480 MHz GMRS: 462.5500~462.7250 MHz, 467.5500~467.7250 MHz
Modulation Technique:	BLE: GFSK BT: GFSK, $\pi/4$ -DQPSK GMRS: FM
★Maximum Antenna Gain:	BT/BLE: 2.39 dBi GMRS: 2.15 dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The difference between tested model and series model are model name and appearance (color), please refer to declaration letter for more detail. 3. The EUT supplied by the applicant was received on 2025-12-23.	

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

FCC§15.247 (i), §1.1307(b)(1) & §2.1091 – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
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

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1307(b)(1) & §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{\text{limit},i}} \leq 1$$

Calculated Data:**For Bluetooth**

Mode	Frequency (MHz)	★Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	2.39	1.73	0.0	1.00	20	0.0003	1
BT	2402-2480	2.39	1.73	1.0	1.26	20	0.0004	1

Note: The Tune-up output power was declared by the Manufacturer.

For GMRS

Frequency (MHz)	★Antenna Gain		★Tune-up Conducted output power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	(numeric)	(dBm)	(mW)			
462.5500-467.7250	2.15	1.64	46.00	39810.72	93	0.300	0.308

Note:

1. The device maximum operation duty cycle is 50%.
2. The Tune-up output power was declared by the Manufacturer.

Simulatneous transmission:

BLE/BT and GMRS can transmissions simultaneously, the worst case is:

$$= S_{BT}/S_{limit-BT} + S_{GMRS}/S_{limit-GMRS}$$

$$= 0.0004/1 + 0.300/0.308$$

$$= 0.9744$$

$$< 1$$

Result: The device meet FCC MPE at 93 cm distance

EUT PHOTOGRAPHS

Please refer to the attachment 2507A11393E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507A11393E-RF-INP EUT INTERNAL PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******