

Test Report

Prepared for: BK Technologies, Inc

Model: KNG-M400HP

Description: UHF Mobile Radio

FCC ID: K95KNGM400HP

Serial Number: 10102B0522443001

Project No: p2540008

Test Results: Pass

To

FCC Part 1.1310

Date of Issue: September 30, 2025

On the behalf of the applicant:

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Attention of:

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ISED Site Reg. #2044A-2

Reviewed / Authorized By:



Signature of Greg Corbin, Project Test Engineer

Greg Corbin
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
Rev 1.0	9/30/2025	Madhava Gooduru	Original Document

ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.



EUT Description

Model:	KNG-M400HP
Serial:	Sample 1: 10102B0522443002 Sample 2: 10102B0522443001
Firmware:	v5.7.15
Software:	N/A
Description:	UHF mobile Radio
Additional Information:	The EUT is a 100-watt mobile transceiver using FM and C4FM modulation operating in the UHF band.
Power	13.8 vdc
Receipt of Sample(s):	Sample 1: 7/15/2025 Sample 2: 8/7/2025
EUT Condition:	Visual Damage No State of Development Production/Production Equivalent

MPE Evaluation

The EUT is a mobile device used in an Uncontrolled Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (ii)

0.3-1.34 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Worst case RF exposure calculations were calculated using the highest gain antenna and the higher of the measured output power or the rated output power.

In this case, the measured output power was used for the MPE and Minimum Safe Distance calculation.

The limit for this frequency range is dependent on the test frequency.

The lowest frequency in the band of operation was used for the limit calculation, producing the worst case MPE limit.

MPE calculation

Test Frequency, MHz	406.1
Power, EIRP mW (P)	115080
Antenna Gain Isotropic	2 dBi
Antenna Gain Numeric (G)	1.585
Antenna Type	whip
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mW/cm ²

Power Density (S) = 36.289 mW/cm ²
Limit = (from above table) = 0.271 mW/cm ²

The EUT Power Density of 36.289 mW/cm² is over the limit of 0.271 mW/cm² with a 2 dBi gain antenna at 20 cm distance.

The Minimum Safe Distance was calculated on the next page.

Minimum Safe Distance Evaluation

This is a mobile device used in **Uncontrolled** Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)

0.3-1.34 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	406.1
Power, Conducted, mW (P)	115080
Antenna Gain Isotropic	2 dBi
Antenna Gain Numeric (G)	1.585
Antenna Type	Whip
Limit (L)	0.271 mW/cm ²

$R = \sqrt{(PG/4\pi L)}$			
Distance (R) cm	Power mW (P)	Numeric Gain (G)	Limit (L)
231.49 cm	115080	1.585	0.271

The minimum safe distance is 231.49 cm for a 2 dBi gain antenna.

END OF TEST REPORT