Test Report

Prepared for: Wulfsberg Electronics Division

Model: NPX138N

Description: VHF/FM Radio Transceiver

Serial Number: C115608

FCC ID: GOL3YH-NPX138

Project No: p2550007

Test Results: Pass

To

FCC Part 1.1310

Date of Issue: August 1, 2025

On the behalf of the applicant:	**Wulfsberg Electronics Division** **6400 Wilkinson Drive** **Prescott, AZ 86301**
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Prepared By:	**Compliance Testing, LLC** **Mesa, AZ 85204** **(480) 926-3100 phone / (480) 926-3598 fax** **www.compliancetesting.com** **ANAB Cert#: AT-2901** **FCC Site Reg.750616** **ISED Site Reg. #2044A-2**

Greg Corbin
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
Rev 1.0	8/1/2025	Greg Corbin	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.

FCC Site Reg. #750616

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model:	NPX138N
Serial:	C115608
Build Standard	NPX138N-070BS, Rev G with ATP changes per ECR 300100
Software:	N/A
Description:	VHF/FM Radio Transceiver
Additional Information:	The EUT mobile radio operating from 138 – 174 MHz using FM modulation.
Power	28 vdc
Receipt of Sample(s):	5/28/2025
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/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

RF exposure was calculated using 0 dBi antenna gain.

Worst case RF exposure calculations were calculated using 0 dBi antenna gain and the rated output power.

MPE calculation

Test Frequency, MHz	138.025
Power,EIRP mW (P)	10800
Antenna Gain Isotropic	0
Antenna Gain Numeric (G)	1
Antenna Type	dipole
Distance (R)	20 cm

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

Power Density (S) =2.148 mW/cm^2
Limit = (from above table) = 0.200 mW/cm^2

The EUT Power Density of 2.148 mW/cm^2 is over the limit of 0.200 mW/cm^2 with a 0 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/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	138.025
Power, Conducted, mW (P)	10800
Antenna Gain Isotropic	0
Antenna Gain Numeric (G)	1
Antenna Type	dipole
Limit (L)	0.200 mW/cm^2

R=√(PG/4πL)			
Distance (R) cm	Power mW (P)	Numeric Gain (G)	Limit (L)
65.6 cm	10800	0	0.200

The minimum safe distance is 65.6 cm for a 0 dBi gain antenna.

END OF TEST REPORT