

## Test Report

Prepared for: Telonics

Model: MK-29 module

Description: MURs Animal Tracking Collar

Serial Number: N/A

FCC ID: JYL-MK29

To

FCC Part 1.1310

Date of Issue: March 9, 2021

On the behalf of the applicant:

Telonics  
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Attention of:

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Reviewed / Authorized By:



**John Michalowicz**  
Test Engineer

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	December 27, 2024	John Michalowicz	Original Document
2.0	June 5, 2025	John Michalowicz	Updated antenna gain

## ANAB

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

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**Non-accredited tests contained in this report:**

**N/A**

### **EUT Description**

**Model:** MK-29 module

**Description:** MURs Animal Tracking Collar

**Firmware:** MK-29 2024.12.10 10:10:34

**Software:** NA

**Serial Number:** N/A

**Additional Information:** The EUT is a module intended to be used on wild animal tracking collars. The device operates on the 151 MHz channels with up to 2.4 kbps and the 154 MHz channels with up to 6.4 kbps. The modulation is 4-GFSK

## MPE Evaluation

This is a portable device used in Uncontrolled Exposure environment.

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

0.3-1.234 MHz:	Limit [mW/cm <sup>2</sup> ] = 100
1.34-30 MHz:	Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> )
30-300 MHz:	Limit [mW/cm <sup>2</sup> ] = 0.2
300-1500 MHz:	Limit [mW/cm <sup>2</sup> ] = f/1500
1500-100,000 MHz	Limit [mW/cm <sup>2</sup> ] = 1.0

## Test Data

Test Frequency, MHz	151.94
Power, Conducted, mW (P)	28.77
Antenna Gain Isotropic	7 dBi
Antenna Gain Numeric (G)	5.01
Antenna Type	omni
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm <sup>2</sup>
0.0286761300

Power Density (S) = 0.0287
Limit = (from above table) = 0.2

The power density is below the limit

END OF TEST REPORT