

**COMPLIANCE WORLDWIDE INC.
TEST REPORT 260-25RF**

**In Accordance with the Requirements of
FCC PART 2.1093 Radio Frequency Exposure Evaluation:
Portable Devices**

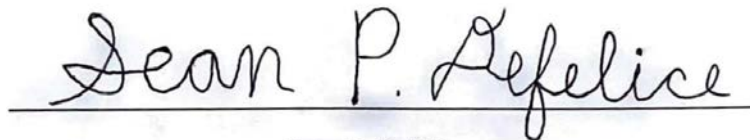
**Issued to
Racelogic Ltd
10 Swan Business Centre
Osier Way, Buckingham, MK18 1TB United Kingdom**

**For the
VIPS Rover V6
Model: VIPS-R-V6**

FCC ID: 2AU5C-VIPSR06

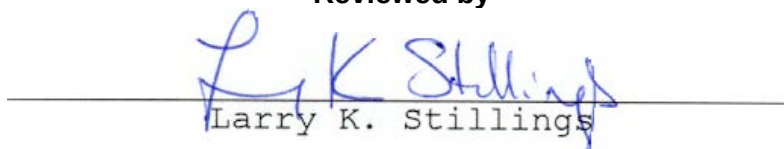
Report Issued on October 2, 2025

Tested by



Sean P. Defelice

Reviewed by



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1. Scope

This test report certifies that the Racelogic VIPS Rover V6 as tested, meets the FCC Part 2.1093 requirements exempting the device from a SAR Evaluation. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required. Measurement Uncertainty will not be applied to any of the measurement / testing results in this test report to determine pass/fail criteria per the Decision Rule as defined in ISO/IEC Guide 17025-2017 Clause 3.7.

2. Product Details

- 2.1. Manufacturer:** Racelogic Ltd
2.2. Model Numbers: VIPS-R-V6
2.3. Serial Numbers: 003
2.4. Description: The VBOX Indoor Positioning System (VIPS) is a highly accurate way of measuring speed, position and attitude in areas where GNSS is not available. A network of independent beacons are placed around the edges of the test area, which communicate with a receiver (rover) mounted on the roof of a vehicle, using UWB.
2.5. Power Source: 5 VDC via USB
2.6. Hardware Version: N/A
2.7. Software Revision: N/A
2.8. Modulation Type: Pulse Modulation, Frequency Hopping
2.9. Operating Frequencies: 4.5 GHz Center Frequency Nominal (Ch 3 – 500 MHz BW),
 4.0 GHz Center Frequency Nominal (Ch 4 – 900 MHz BW),
 6.5 GHz Center Frequency Nominal (Ch 7 – 900 MHz BW)
2.10. EMC Modifications: None

3. Product Configuration

3.1 Operational Characteristics & Software

Hardware Setup:

Connect the VIPS-Rover V6 to the laptop to configure operation for either Channel 3 or Channel 4 or Channel 7 operation.

3.2. EUT Hardware

Device	Manufacturer	Manufacturer p/n	Serial No.
VIPS Rover V6	Racelogic	VIPS-R-V6	003

3.3. EUT Cables/Transducers

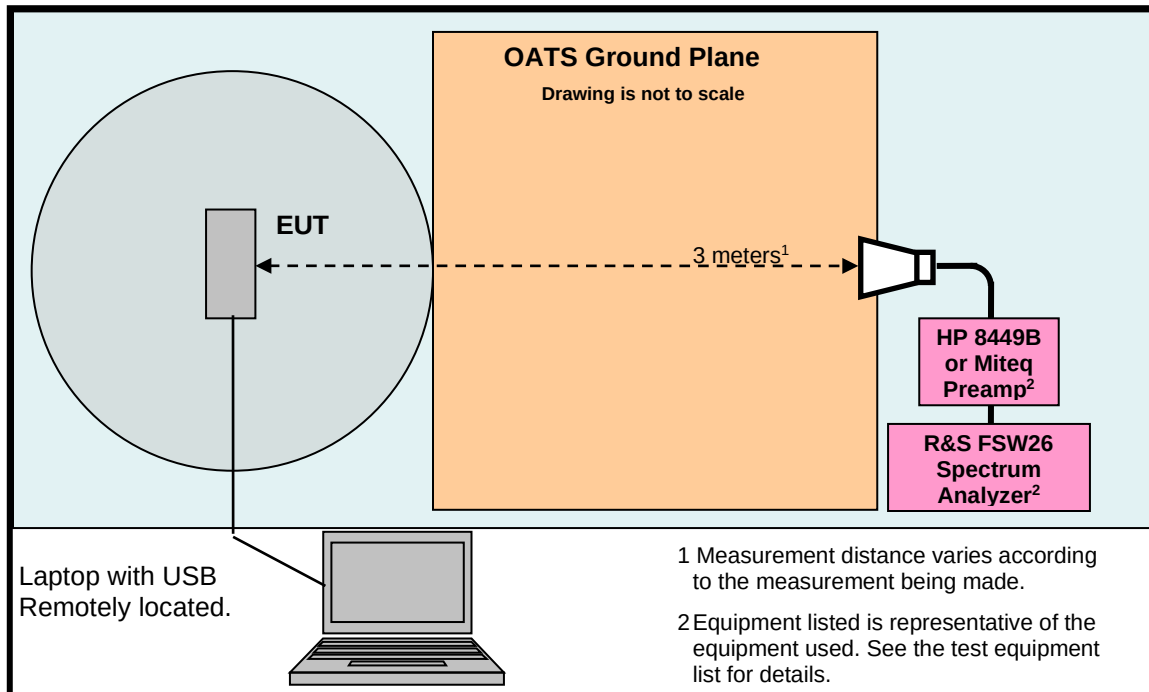
Cable Type	Length	Shield	From	To
Serial Cable	10M	No	EUT	RS-232 to USB Converter

3.4. Support Equipment

Device	Manufacturer	Model	Serial No.
Laptop	Lenovo	ThinkPad T440P	PB-031DX9
Rover to USB	Racelogic	RLACS368	N/A

3. Product Configuration (cont.)

3.5. Test Setup Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due	Interval
Spectrum Analyzer, 2 Hz to 26.5 GHz ¹	Rohde & Schwarz	FSW26	102057	7/19/2026	2 Years
Dbl Ridged Guide Antenna 1- 18 GHz	ETS-Lindgren	3117	00143292	5/11/2026	4 Years
Dbl Ridged Guide Antenna 1- 18 GHz	ETS-Lindgren	3117	00227631	4/21/2026	4 Years
Preamplifier 2 to 12 GHz	JCA	JCA48-4111B1	7087S	9/28/2026	3 Years
Barometric Pressure/Humidity & Temp Datalogger	Extech Instruments	SD700	Q590483	3/15/2026	2 Years

¹ FSW26 Firmware revision: V4.71 SP1, Date installed: 11/16/2020 Previous V4.61, installed 08/11/2020.

4.2. Measurement & Equipment Setup

Test Dates: 9/19/2025, 9/22/2025
 Test Engineers: Sean Defelice
 Normal Site Temperature (15 - 35°C): 24
 Relative Humidity (20 - 75%RH): 40
 Frequency Range: 3 to 5 GHz, 3.5 to 4.5 GHz, 5.5 to 7.5 GHz
 Measurement Distance: 3 Meters
 EMI Receiver IF Bandwidth: 50 MHz
 EMI Receiver Avg Bandwidth: 80 MHz
 Detector Function: Peak
 Measurement Uncertainty 1 to 6 GHz: ± 5.17 dB

4. Measurements Parameters (continued)

4.3. Measurement Procedure

Test measurements were made in accordance with FCC Part 15.519 Subpart F.

The test methods used to generate the data in this test report is in accordance with ANSI C63.10:2020, American National Standard for Testing Unlicensed Wireless Devices.

4.4. Measurement Uncertainty

The following uncertainties are expressed for an expansion/coverage factor of K=2.

RF Frequency (out of band)	$\pm 1 \times 10^{-8}$
Radiated Emission of Transmitter to 100 GHz	± 4.55 dB
Radiated Emission of Receiver	± 4.55 dB
Temperature	$\pm 0.91^{\circ}$ C
Humidity	$\pm 5\%$

5. Measurement Data

5.1. Peak Emissions in a 50 MHz Bandwidth (15.519 (e), 15.521 (g) continued)

5.1.1 Plot of Peak Power at 3 Meters – Channel 3

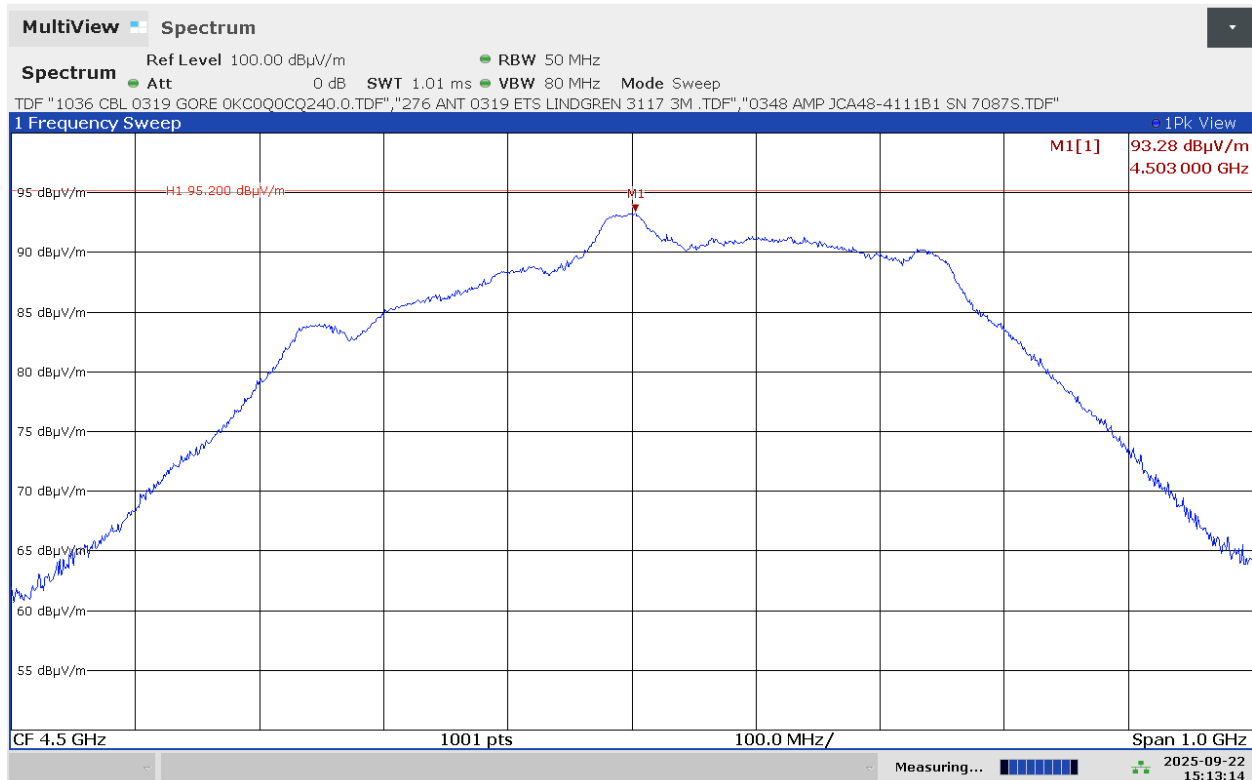
Frequency (GHz)	Amplitude ¹	Limit	Margin	Ant Polarity	Ant Height	Turntable Azimuth	Result
	(dBμV/m)	(dBμV/m)	(dB)	H/V	cm	Deg	
4.503	93.28	95.30	-2.02	V	242	328	Compliant

Notes: ¹ Antenna Factor (AF), Cable Factor (CF) and External Preamplifier Gain (PAG) have been entered into the analyzer as transducer factors.

$$\text{EIRP (dBm)} = E_{\text{meas}} (\text{dB}\mu\text{V/m}) - 95.3, \text{ Equation 33 from ANSI C63.10:2020}$$

Frequency (GHz)	Amplitude ¹	Limit	Margin	Ant Polarity	Ant Height	Turntable Azimuth	Result
	(dBm)	(dBm)	(dB)	H/V	cm	Deg	
4.503	-2.02	0.00	-2.02	V	242	328	Compliant

262-25 Racelogic VIPs Rover V6 UWB Antenna



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5. Measurement Data

5.1. Peak Emissions in a 50 MHz Bandwidth (15.519 (e), 15.521 (g) continued)

5.1.2 Plot of Peak Power at 3 Meters – Channel 4

Frequency (GHz)	Amplitude ¹	Limit	Margin	Ant Polarity	Ant Height	Turntable Azimuth	Result
	(dBμV/m)	(dBμV/m)	(dB)	H/V	cm	Deg	
3.998	93.27	95.30	-2.03	V	246	0	Compliant

Notes: ¹ Antenna Factor (AF), Cable Factor (CF) and External Preamplifier Gain (PAG) have been entered into the analyzer as transducer factors.

$$\text{EIRP (dBm)} = E_{\text{meas}} (\text{dB}\mu\text{V/m}) - 95.3, \text{ Equation 33 from ANSI C63.10:2020}$$

Frequency (GHz)	Amplitude ¹ (dBm)	Limit (dBm)	Margin	Ant Polarity	Ant Height	Turntable Azimuth	Result
	EIRP	EIRP	(dB)	H/V	cm	Deg	
3.998	-2.03	0.00	-2.03	V	246	0	Compliant

261-25 Racelogic VIPs Rover V6 UWB Antenna



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5. Measurement Data

5.1. Peak Emissions in a 50 MHz Bandwidth (15.519 (e), 15.521 (g) continued)

5.1.3 Plot of Peak Power at 3 Meters – Channel 7

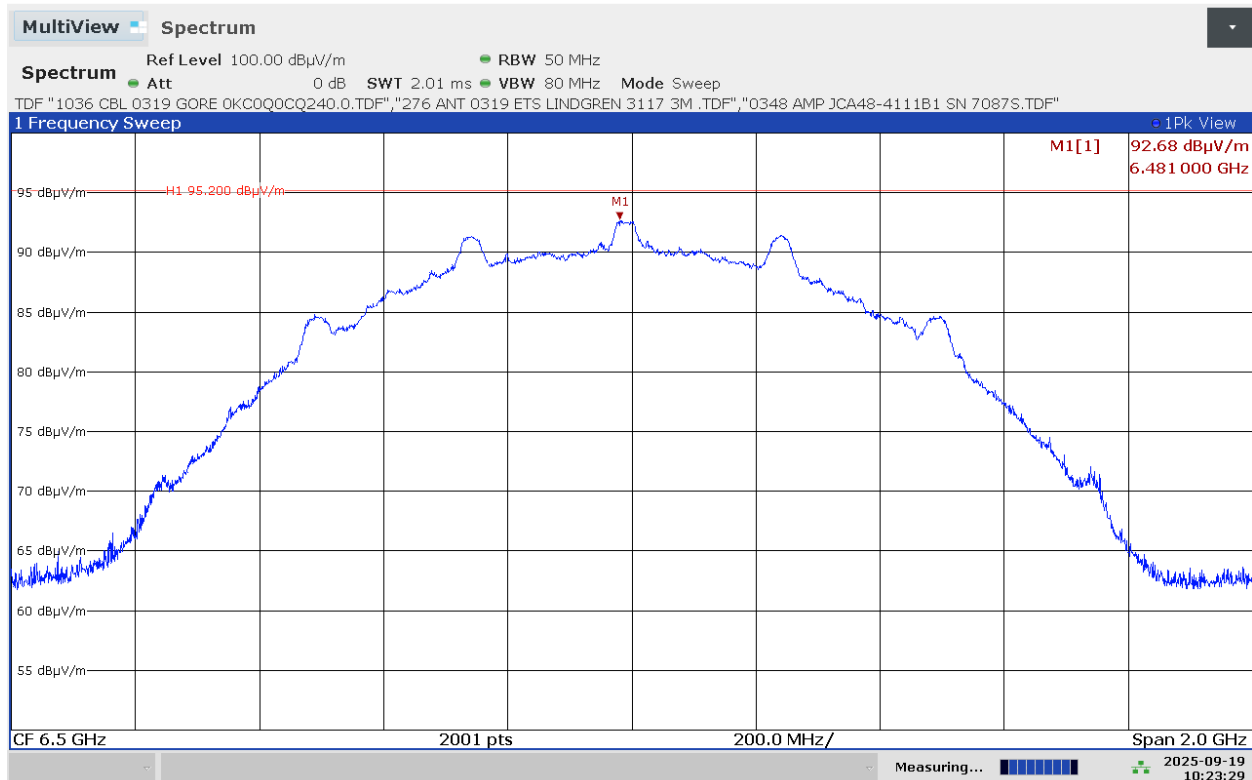
Frequency (GHz)	Amplitude ¹	Limit	Margin	Ant Polarity	Ant Height	Turntable Azimuth	Result
	(dBμV/m)	(dBμV/m)	(dB)	H/V	cm	Deg	
6.481	92.68	95.30	-2.62	V	228	42	Compliant

Notes: ¹ Antenna Factor (AF), Cable Factor (CF) and External Preamplifier Gain (PAG) have been entered into the analyzer as transducer factors.

$$\text{EIRP (dBm)} = E_{\text{meas}} (\text{dB}\mu\text{V/m}) - 95.3, \text{ Equation 33 from ANSI C63.10:2020}$$

Frequency (GHz)	Amplitude ¹ (dBm)	Limit (dBm)	Margin	Ant Polarity	Ant Height	Turntable Azimuth	Result
	EIRP	EIRP	(dB)	H/V	cm	Deg	
6.481	-2.62	0.00	-2.62	V	228	42	Compliant

260-25 Racelogic VIPs Rover V6 UWB Antenna



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5. Measurement Data (continued)

5.2. Public Exposure to Radio Frequency Energy Levels (2.1093)

5.2.1. 2.1093 Requirements

Requirement: Portable devices are subject to radio frequency radiation exposure requirements. For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW.

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it may not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period.

Power levels from Section 5.1

Channel	Frequency	Peak Field Strength	Distance	Antenna Gain ¹	Measured Output Power	Measured Output Power	Output Power Limit	Result
	(GHz)	(dBμV/m)	(m)	(dBi)	(dBm)	(mW)	(mW)	
3	4.503	93.28	3.0	0.000	-2.02	0.638	1	Compliant
4	3.998	93.27	3.0	0.000	-2.03	0.637	1	Compliant
7	6.481	92.68	3.0	0.000	-2.62	0.556	1	Compliant

Note: Antenna gain is included in the field strength measurements. Measured Power is determined by 3M Peak Field Strength – 95.3 = dBm

Conclusion: The device under test meets the exclusion requirement detailed in FCC OET 447498 D01, dated October 23, 2015 Clause 4.3.1 (a).