



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Core Kinect

Model: OBDLRA1 & GENLRA3

Description: Vehicle Tracking and Diagnostic System

Serial Number: N/A

FCC ID: 2ARKMOBDLRA1

To

FCC Part 1.1310

Date of Issue: March 21, 2019

On the behalf of the applicant:

Core Kinect
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Attention of:

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Prepared By
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Poona Saber
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	February 12, 2019	Poona Saber	Original Document
2.0	March 21, 2019	Amanda Reed	Updated FCC ID

ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

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

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

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: OBDLRA1 & GENLRA3

Description: Vehicle Tracking and Diagnostic System

Firmware: N/A

Software: N/A

Serial Number: N/A

Additional Information:

Unit operates in two bands of 902-928 MHz and 2400-2483.5 MHz. It is a FHSS on 900 MHz band and DTS on 2.4 GHz band. It was tested on continuous operation mode on three channels of low, mid and high on both bands of operation.

Below is Calculation for SAR exclusion per KDB 447498.

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,25 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is $<$ 5 mm, a distance of 5 mm according to 5) in section 4.1 in KDB 447498 is applied to determine SAR test exclusion.

The Maximum output power per manufacturer declaration is 5.61 dBm.

$$\frac{3.63 \text{ mW}}{5 \text{ mm}} \cdot \sqrt{0.915 \text{ GHz}} = 0.69$$

Since the above number is below 1-g SAR limit this device is excluded for SAR measurements

END OF TEST REPORT