



Willow Run (WR) Test Labs, Inc.
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Re: Certification for: Ford Motor Company
 EU Type Designation: KMHSG1P1

WRTL Project Number: 20170612-PRJWAC010115

Test Report (Cover Sheet)

To whom it may concern,

The goal of Ford Motor Company is to demonstrate that the Equipment Under Test (EUT) – KMHSG1P1 – complies with the essential requirements of the RED Directive 2014/53/EU. It has been determined that the EUT is subject to the referenced rules and directives at the date of this testing. In conjunction with these rules and directives, the referenced specifications and procedures are followed herein to demonstrate compliance (in whole or in part) of the EUT with these regulations.

KMHSG1P1 has been evaluated and judged compliant with the following specifications, per testing completed on or before June 12, 2017 :

EN 300 328 V2.1.1

TEST PARAMETER	COMPLIES	NOTES
EN 300 328: Technical Requirements, Frequency Hopping equipment		
4.3.1 Requirements for Frequency Hopping equipment	<input checked="" type="checkbox"/>	See Below
4.3.1.2 RF output power	<input checked="" type="checkbox"/>	4.6 dBm < 20 dBm
4.3.1.3 Duty Cycle, Tx-sequence, Tx-gap	<input checked="" type="checkbox"/>	Not Applicable: (Pout < 10 dBm EIRP)
4.3.1.4 Accumulated Transmit Time, Freq. Occupation and Hopping Sequence	<input checked="" type="checkbox"/>	Confirmed
4.3.1.5 Hopping Frequency Separation	<input checked="" type="checkbox"/>	Confirmed
4.3.1.6 Medium Utilization (MU) factor	<input checked="" type="checkbox"/>	Not Applicable: (Pout < 10 dBm EIRP)
4.3.1.7 Adaptivity (Adaptive Frequency Hopping)	<input checked="" type="checkbox"/>	Not Applicable: (Pout < 10 dBm EIRP)
4.3.1.8 Occupied Channel Bandwidth	<input checked="" type="checkbox"/>	Confirmed
4.3.1.9 Transmitter unwanted emissions in the OOB domain	<input checked="" type="checkbox"/>	>20 dB margin
4.3.1.10 Transmitter unwanted emissions in the spurious domain	<input checked="" type="checkbox"/>	>20 dB margin
4.3.1.11 Receiver spurious emissions	<input checked="" type="checkbox"/>	> 20 dB margin
4.3.1.12 Receiver Blocking	<input checked="" type="checkbox"/>	Meas. PER < 0.00% with Category 2 Stimuli
4.3.1.13 Geo-location capability	<input checked="" type="checkbox"/>	Not Applicable: No Geo-location Capability

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ETSI EN 301 489-1 v1.9.2 / ETSI EN 301 489-1 V2.1.1 / ETSI EN 301 489-3 V2.1.0

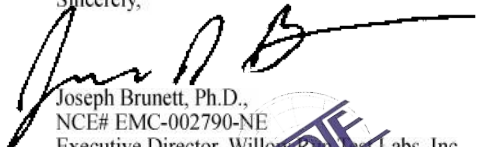
TEST PARAMETER	COMPLIES	NOTES
EN 301 489: Emissions		
8.2 Enclosure port of ancillary equipment (30 MHz – 6 GHz)	<input checked="" type="checkbox"/>	EN 55032B: Tested
8.3 DC power input/output ports	<input checked="" type="checkbox"/>	EN 55032/CISPR25: Tested
8.4 AC mains power input/output ports	<input checked="" type="checkbox"/>	Not Applicable
8.5 Harmonic current emissions (AC mains input port)	<input checked="" type="checkbox"/>	Not Applicable
8.6 Voltage fluctuations and flicker (AC mains input port)	<input checked="" type="checkbox"/>	Not Applicable
8.7 Wired network ports	<input checked="" type="checkbox"/>	Not Applicable
EN 301 489: Immunity		
9.2 Radio frequency electromagnetic field (80 MHz to 6 000 MHz)	<input checked="" type="checkbox"/>	61000-4-3 3V/m, 80%: Tested
9.3 Electrostatic discharge	<input checked="" type="checkbox"/>	61000-4-2: Tested
9.4 Fast transients, common mode	<input checked="" type="checkbox"/>	Not Applicable (< 3m)
9.5 Radio frequency, common mode	<input checked="" type="checkbox"/>	Not Applicable (< 3m)
9.6 Transients and surges in the vehicular environment	<input checked="" type="checkbox"/>	ISO 7637-2: Tested
9.7 Voltage dips and interruptions	<input checked="" type="checkbox"/>	Not Applicable
9.8 Surges	<input checked="" type="checkbox"/>	Not Applicable

EN 62479: 2010, EN 62311: 2008

TEST PARAMETER	COMPLIES	NOTES
EN 62479, EN 62311: Health and Safety		
EN 62479 / EN 62311	<input checked="" type="checkbox"/>	Conf. Below Action Level

The test results contained in this document relate only to the item(s) tested. Any electrical or mechanical modification made to the test item after the test date shall invalidate the data presented in this report. Any electrical or mechanical modification made to the test item after this test date shall require reevaluation.

Sincerely,



Joseph Brunett, Ph.D.,
 NCE# EMC-002790-NE
 Executive Director, Willow Run Test Labs, Inc.

