

# FCC ID KMH-14H074-NA1

KMH14H074-NA1, KMH 14H074NA1, KMH-14H074-NA1, KMH-14HO74-NA1, KMH-14H074-NAI

**Ford Motor Company Telematics Control Unit 14H074-NA1**

FORD MOTOR FB5-TCU-NA

FCC ID (<https://fccid.io/>) > / Ford Motor Company (<https://fccid.io/KMH>) >

/ 14H074-NA1 (<https://fccid.io/KMH14H074NA1>)

An FCC ID is the product ID assigned by the FCC to identify wireless products in the market. The FCC chooses 3 or 5 character "Grantee" codes to identify the business that created the product. For example, the grantee code for **FCC ID: KMH-14H074-NA1** is **KMH** (<https://fccid.io/KMH>). The remaining characters of the FCC ID, **-14H074-NA1**, are often associated with the product model, but they can be random. These letters are chosen by the applicant. In addition to the application, the FCC also publishes *internal images*, *external images*, *user manuals*, and *test results* for wireless devices. They can be under the "exhibits" tab below.

Purchase on Amazon: Telematics Control Unit ([http://target.georiot.com/Proxy.ashx?tsid=17750&GR\\_URL=http%3A%2F%2Fwww.amazon.com%2Fgp%2Fsearch%3Fie%3DUTF8%26camp%3D178](http://target.georiot.com/Proxy.ashx?tsid=17750&GR_URL=http%3A%2F%2Fwww.amazon.com%2Fgp%2Fsearch%3Fie%3DUTF8%26camp%3D178))

Application: Telematics Control Unit

Equipment Class: NII - Unlicensed National Information Infrastructure TX

Alternate Sources: FCC.gov (<https://gov.fccid.io/KMH-14H074-NA1>) | FCC.report (<https://fcc.report/FCC-ID/KMH-14H074-NA1>)

Registered By: Ford Motor Company - KMH (United States) (<https://fccid.io/KMH>)

App #	Purpose	Date	Unique ID
1	Original Equipment	2019-12-13	MXphbzx+ba/R0NX3Im3NGQ==
2	Original Equipment	2019-12-13	rbpoJH6E7iL643utyQKP7A==

App #	Purpose	Date	Unique ID
3	Original Equipment	2019-12-13	Cir8wLdqsDvSqxXh/Zawng==
4	Original Equipment	2019-12-13	SQHmubQoCmrZeF1rWFahAw==

## Operating Frequencies

Colombia Homologation [? (<https://fccid.io/blog/2018/05/18/find-fcc-id-certification-homologation-colombia/>): KMH-14H074-NA1 (<https://homologation.fccid.io/KMH-14H074-NA1>)

Device operates within approved frequencies overlapping with the following cellular bands: LTE 255,Unlicensed NII-3 DOWN | LTE 46,TD Unlicensed DOWN |

Frequency Range	Power Output	Tolerance	Emission Designator	Rule Parts
699.7-715.3 MHz (/frequency-explorer.php?lower=699.7&upper=715.3)	193 mW	1ppm	1M09G7D (/Emissions-Designator/1M09G7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )
699.7-715.3 MHz (/frequency-explorer.php?lower=699.7&upper=715.3)	195 mW	1ppm	9M07G7D (/Emissions-Designator/9M07G7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )
699.7-715.3 MHz (/frequency-explorer.php?lower=699.7&upper=715.3)	190 mW	1ppm	1M09W7D (/Emissions-Designator/1M09W7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )
699.7-715.3 MHz (/frequency-explorer.php?lower=699.7&upper=715.3)	176 mW	1ppm	9M08W7D (/Emissions-Designator/9M08W7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )
706.5-713.5 MHz (/frequency-explorer.php?lower=706.5&upper=713.5)	167 mW	1ppm	4M51W7D (/Emissions-Designator/4M51W7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )
706.5-713.5 MHz (/frequency-explorer.php?lower=706.5&upper=713.5)	203 mW	1ppm	4M53G7D (/Emissions-Designator/4M53G7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )
706.5-713.5 MHz (/frequency-explorer.php?lower=706.5&upper=713.5)	197 mW	1ppm	9M94G7D (/Emissions-Designator/9M94G7D)	27 ( <a href="https://ecfr.ic47/pt47.2.27">https://ecfr.ic47/pt47.2.27</a> )

Frequency Range	Power Output	Tolerance	Emission Designator	Rule Parts
706.5-713.5 MHz (/frequency-explorer.php?lower=706.5&upper=713.5)	172 mW	1ppm	9M03W7D (/Emissions-Designator/9M03W7D)	27 (https://ecfr.ic.gov/pt47.2.27)
824.7-848.3 MHz (/frequency-explorer.php?lower=824.7&upper=848.3)	214 mW	1ppm	1M10G7D (/Emissions-Designator/1M10G7D)	22H (https://ecfr.ic.gov/pt47.2.22#sp)
824.7-848.3 MHz (/frequency-explorer.php?lower=824.7&upper=848.3)	213 mW	1ppm	9M05G7D (/Emissions-Designator/9M05G7D)	22H (https://ecfr.ic.gov/pt47.2.22#sp)
824.7-848.3 MHz (/frequency-explorer.php?lower=824.7&upper=848.3)	208 mW	1ppm	1M09W7D (/Emissions-Designator/1M09W7D)	22H (https://ecfr.ic.gov/pt47.2.22#sp)
824.7-848.3 MHz (/frequency-explorer.php?lower=824.7&upper=848.3)	187 mW	1ppm	9M05W7D (/Emissions-Designator/9M05W7D)	22H (https://ecfr.ic.gov/pt47.2.22#sp)
1.7107-1.7793 GHz (/frequency-explorer.php?lower=1710.7&upper=1779.3)	234 mW	1ppm	1M09G7D (/Emissions-Designator/1M09G7D)	27 (https://ecfr.ic.gov/pt47.2.27)
1.7107-1.7543 GHz (/frequency-explorer.php?lower=1710.7&upper=1754.3)	236 mW	1ppm	1M09G7D (/Emissions-Designator/1M09G7D)	27 (https://ecfr.ic.gov/pt47.2.27)
1.7107-1.7543 GHz (/frequency-explorer.php?lower=1710.7&upper=1754.3)	243 mW	1ppm	17M9G7D (/Emissions-Designator/17M9G7D)	27 (https://ecfr.ic.gov/pt47.2.27)
1.7107-1.7543 GHz (/frequency-explorer.php?lower=1710.7&upper=1754.3)	198 mW	1ppm	1M09W7D (/Emissions-Designator/1M09W7D)	27 (https://ecfr.ic.gov/pt47.2.27)
1.7107-1.7543 GHz (/frequency-explorer.php?lower=1710.7&upper=1754.3)	209 mW	1ppm	17M9W7D (/Emissions-Designator/17M9W7D)	27 (https://ecfr.ic.gov/pt47.2.27)
1.7107-1.7793 GHz (/frequency-explorer.php?lower=1710.7&upper=1779.3)	241 mW	1ppm	17M9G7D (/Emissions-Designator/17M9G7D)	27 (https://ecfr.ic.gov/pt47.2.27)
1.7107-1.7793 GHz (/frequency-explorer.php?lower=1710.7&upper=1779.3)	198 mW	1ppm	1M10W7D (/Emissions-Designator/1M10W7D)	27 (https://ecfr.ic.gov/pt47.2.27)

Frequency Range	Power Output	Tolerance	Emission Designator	Rule Parts
1.7107-1.7793 GHz (/frequency-explorer.php?lower=1710.7&upper=1779.3)	230 mW	1ppm	17M9W7D (/Emissions-Designator/17M9W7D)	27 (https://ecfr.io/pt47.2.27)
1.8507-1.9093 GHz (/frequency-explorer.php?lower=1850.7&upper=1909.3)	237 mW	1ppm	1M10G7D (/Emissions-Designator/1M10G7D)	24E (https://ecfr.io/pt47.2.24#sp)
1.8507-1.9093 GHz (/frequency-explorer.php?lower=1850.7&upper=1909.3)	239 mW	1ppm	18M0G7D (/Emissions-Designator/18M0G7D)	24E (https://ecfr.io/pt47.2.24#sp)
1.8507-1.9093 GHz (/frequency-explorer.php?lower=1850.7&upper=1909.3)	197 mW	1ppm	1M09W7D (/Emissions-Designator/1M09W7D)	24E (https://ecfr.io/pt47.2.24#sp)
1.8507-1.9093 GHz (/frequency-explorer.php?lower=1850.7&upper=1909.3)	210 mW	1ppm	19M2W7D (/Emissions-Designator/19M2W7D)	24E (https://ecfr.io/pt47.2.24#sp)
1.8524-1.9076 GHz (/frequency-explorer.php?lower=1852.4&upper=1907.6)	273 mW	1ppm	4M13F9W (/Emissions-Designator/4M13F9W)	24E (https://ecfr.io/pt47.2.24#sp)
2.402-2.48 GHz (/frequency-explorer.php?lower=2402&upper=2480) 	4 mW		(/Emissions-Designator/)	15C (https://ecfr.io/pt47.1.15#sp)
2.402-2.48 GHz (/frequency-explorer.php?lower=2402.000000000&upper=2480.000000000) 	7 mW		(/Emissions-Designator/)	15C (https://ecfr.io/pt47.1.15#sp)
2.412-2.462 GHz (/frequency-explorer.php?lower=2412&upper=2462) 	68 mW		(/Emissions-Designator/)	15C (https://ecfr.io/pt47.1.15#sp)
5.5-5.72 GHz (/frequency-explorer.php?lower=5500&upper=5720) 	19 mW		(/Emissions-Designator/)	15E (https://ecfr.io/pt47.1.15#sp)
5.745-5.825 GHz (/frequency-explorer.php?lower=5745&upper=5825) 	14 mW		(/Emissions-Designator/)	15E (https://ecfr.io/pt47.1.15#sp)

Frequency Range	Power Output	Tolerance	Emission Designator	Rule Parts
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## Exhibits

All

1 (2019-12-13)

2 (2019-12-13)

3 (2019-12-13)

4 (2019-12-13)

## Available Exhibits

App #	Document	Type	Submitted Available
4	User Manual ( <a href="https://fccid.io/KMH-14H074-NA1/Users-Manual/User-Manual-4551639">https://fccid.io/KMH-14H074-NA1/Users-Manual/User-Manual-4551639</a> )	Users Manual Adobe Acrobat PDF (140 kB)	2019-12-13 <b>2020-06-11</b>
4	Test Setup ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-Setup-4551638">https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-Setup-4551638</a> )	Test Setup Photos Adobe Acrobat PDF (601 kB)	2019-12-13 <b>2020-06-11</b>
4	Test Report ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551637">https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551637</a> )	Test Report Adobe Acrobat PDF (4330 kB)	2019-12-13 <b>2019-12-13</b>
4	RF Exposure Info ( <a href="https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551612">https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551612</a> )	RF Exposure Info Adobe Acrobat PDF (218 kB)	2019-12-13 <b>2019-12-13</b>
4	Internal Photos ( <a href="https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551604">https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551604</a> )	Internal Photos Adobe Acrobat PDF (495 kB)	2019-12-13 <b>2020-06-11</b>
4	ID Label/Location Info ( <a href="https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551601">https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551601</a> )	ID Label/Location Info Adobe Acrobat PDF (53 kB)	2019-12-13 <b>2019-12-13</b>
4	External Photos ( <a href="https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551597">https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551597</a> )	External Photos Adobe Acrobat PDF (401 kB)	2019-12-13 <b>2020-06-11</b>

App #	Document	Type	Submitted Available
4	FCC Confidentiality Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551593">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551593</a> )	Cover Letter(s) Adobe Acrobat PDF (599 kB)	2019-12-13 <b>2019-12-13</b>
4	FCC Agent Authorization Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551589">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551589</a> )	Cover Letter(s) Adobe Acrobat PDF (416 kB)	2019-12-13 <b>2019-12-13</b>
3	User manual ( <a href="https://fccid.io/KMH-14H074-NA1/Users-Manual/User-manual-4551508">https://fccid.io/KMH-14H074-NA1/Users-Manual/User-manual-4551508</a> )	Users Manual Adobe Acrobat PDF (140 kB)	2019-12-13 <b>2020-06-11</b>
3	Test setup photos ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-setup-photos-4551507">https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-setup-photos-4551507</a> )	Test Setup Photos Adobe Acrobat PDF (601 kB)	2019-12-13 <b>2020-06-11</b>
3	Test Report ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551506">https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551506</a> )	Test Report Adobe Acrobat PDF (5103 kB)	2019-12-13 <b>2019-12-13</b>
3	Channel and Mode Declaration ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/Channel-and-Mode-Declaration-4551503">https://fccid.io/KMH-14H074-NA1/Letter/Channel-and-Mode-Declaration-4551503</a> )	Cover Letter(s) Adobe Acrobat PDF (213 kB)	2019-12-13 <b>2019-12-13</b>
3	RF Exposure Info ( <a href="https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551501">https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551501</a> )	RF Exposure Info Adobe Acrobat PDF (218 kB)	2019-12-13 <b>2019-12-13</b>
3	Internal Photos ( <a href="https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551499">https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551499</a> )	Internal Photos Adobe Acrobat PDF (495 kB)	2019-12-13 <b>2020-06-11</b>
3	ID Label/Location Info ( <a href="https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551498">https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551498</a> )	ID Label/Location Info Adobe Acrobat PDF (53 kB)	2019-12-13 <b>2019-12-13</b>
3	External Photos ( <a href="https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551497">https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551497</a> )	External Photos Adobe Acrobat PDF (401 kB)	2019-12-13 <b>2020-06-11</b>
3	FCC Confidentiality Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551496">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551496</a> )	Cover Letter(s) Adobe Acrobat PDF (599 kB)	2019-12-13 <b>2019-12-13</b>

App #	Document	Type	Submitted Available
3	FCC Agent Authorization Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551495">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551495</a> )	Cover Letter(s) Adobe Acrobat PDF (416 kB)	2019-12-13 <b>2019-12-13</b>
1	User Manual ( <a href="https://fccid.io/KMH-14H074-NA1/Users-Manual/User-Manual-4551464">https://fccid.io/KMH-14H074-NA1/Users-Manual/User-Manual-4551464</a> )	Users Manual Adobe Acrobat PDF (140 kB)	2019-12-13 <b>2020-06-11</b>
1	Test Setup Photo ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-Setup-Photo-4551463">https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-Setup-Photo-4551463</a> )	Test Setup Photos Adobe Acrobat PDF (601 kB)	2019-12-13 <b>2020-06-11</b>
1	Test Report ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551462">https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551462</a> )	Test Report Adobe Acrobat PDF (3884 kB)	2019-12-13 <b>2019-12-13</b>
1	RF Exposure Info ( <a href="https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551460">https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551460</a> )	RF Exposure Info Adobe Acrobat PDF (218 kB)	2019-12-13 <b>2019-12-13</b>
1	Internal Photos ( <a href="https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551458">https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551458</a> )	Internal Photos Adobe Acrobat PDF (495 kB)	2019-12-13 <b>2020-06-11</b>
1	ID Label/Location Info ( <a href="https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551457">https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551457</a> )	ID Label/Location Info Adobe Acrobat PDF (53 kB)	2019-12-13 <b>2019-12-13</b>
1	External Photos ( <a href="https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551456">https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551456</a> )	External Photos Adobe Acrobat PDF (401 kB)	2019-12-13 <b>2020-06-11</b>
1	FCC Confidentiality Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551455">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551455</a> )	Cover Letter(s) Adobe Acrobat PDF (599 kB)	2019-12-13 <b>2019-12-13</b>
1	FCC Agent Authorization Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551454">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551454</a> )	Cover Letter(s) Adobe Acrobat PDF (416 kB)	2019-12-13 <b>2019-12-13</b>
2	User Manual ( <a href="https://fccid.io/KMH-14H074-NA1/Users-Manual/User-Manual-4551420">https://fccid.io/KMH-14H074-NA1/Users-Manual/User-Manual-4551420</a> )	Users Manual Adobe Acrobat PDF (140 kB)	2019-12-13 <b>2020-06-11</b>

App #	Document	Type	Submitted Available
2	Test Setup Photo ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-Setup-Photo-4551419">https://fccid.io/KMH-14H074-NA1/Test-Setup-Photos/Test-Setup-Photo-4551419</a> )	Test Setup Photos Adobe Acrobat PDF (601 kB)	2019-12-13 <b>2020-06-11</b>
2	Test Report ( <a href="https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551418">https://fccid.io/KMH-14H074-NA1/Test-Report/Test-Report-4551418</a> )	Test Report Adobe Acrobat PDF (3486 kB)	2019-12-13 <b>2019-12-13</b>
2	RF Exposure Info ( <a href="https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551416">https://fccid.io/KMH-14H074-NA1/RF-Exposure-Info/RF-Exposure-Info-4551416</a> )	RF Exposure Info Adobe Acrobat PDF (218 kB)	2019-12-13 <b>2019-12-13</b>
2	Internal Photos ( <a href="https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551414">https://fccid.io/KMH-14H074-NA1/Internal-Photos/Internal-Photos-4551414</a> )	Internal Photos Adobe Acrobat PDF (495 kB)	2019-12-13 <b>2020-06-11</b>
2	ID Label/Location Info ( <a href="https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551413">https://fccid.io/KMH-14H074-NA1/Label/ID-Label-Location-Info-4551413</a> )	ID Label/Location Info Adobe Acrobat PDF (53 kB)	2019-12-13 <b>2019-12-13</b>
2	External Photos ( <a href="https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551412">https://fccid.io/KMH-14H074-NA1/External-Photos/External-Photos-4551412</a> )	External Photos Adobe Acrobat PDF (401 kB)	2019-12-13 <b>2020-06-11</b>
2	FCC Confidentiality Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551410">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Confidentiality-Letter-4551410</a> )	Cover Letter(s) Adobe Acrobat PDF (599 kB)	2019-12-13 <b>2019-12-13</b>
2	FCC Agent Authorization Letter ( <a href="https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551408">https://fccid.io/KMH-14H074-NA1/Letter/FCC-Agent-Authorization-Letter-4551408</a> )	Cover Letter(s) Adobe Acrobat PDF (416 kB)	2019-12-13 <b>2019-12-13</b>

## Application Forms

1 (2019-12-13)

2 (2019-12-13)

3 (2019-12-13)

4 (2019-12-13)

Application for Equipment Authorization FCC Form 731 TCB Version

### Applicant Information



Applicant's complete, legal business name: Ford Motor Company (<https://fccid.io/KMH>)  
FCC Registration Number (FRN): 0019632736 (<https://fccid.io/KMH>)  
Alphanumeric FCC ID: KMH14H074NA1  
Unique Application Identifier: MXphbzx+ba/R0NX3Im3NGQ==  
Line one: Building 5  
Line two: 20300 Rotunda Dr.  
City: Dearborn  
State: Michigan  
Country: United States  
Zip Code: 48124

## TCB Information

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TCB Application Email Address: CB@vista-compliance.com  
TCB Scope: A4: UNII devices & low power transmitters using spread spectrum techniques

## FCC ID

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Grantee Code: KMH  
Product Code: -14H074-NA1

## Person at the applicant's address to receive grant or for contact

---

Name: David J Orris  
Title: Product Development Engineer  
Telephone Number: 313-805-5627 Extension:  
Fax Number: 313-845-3804  
Email: dorris@ford.com  
Mail Stop: 5010 Cube 2E046

## Technical Contact

---

Firm Name: Vista Laboratories, inc.  
First Name: David  
Last Name: Zhang  
Line 1: 1261 Puerta Del Sol  
City: san clemente  
State: California  
Country: United States  
Zip Code: 92673  
Telephone Number: 9493931123 Extension:  
E-Mail: info@vista-compliance.com (<mailto:info@vista-compliance.com>)

## Long-Term Confidentiality

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Does this application include a request for confidentiality for any portion(s) of the data contained in this application pursuant to 47 CFR § 0.459 of the Commission Rules?: Yes

## Short-Term Confidentiality

Does short-term confidentiality apply to this application?: Yes

If so, specify the short-term confidentiality release date (MM/DD/YYYY format): 06/11/2020

*Note: If no date is supplied, the release date will be set to 45 calendar days past the date of grant.*

## Software Defined/Cognitive Radio

Is this application for software defined/cognitive radio authorization? No

## Equipment Class

Equipment Class: DTS - Digital Transmission System

Description of product as it is marketed: (NOTE: This text will appear below the equipment class on the grant): Telematics Control Unit

## Related OET KnowledgeDataBase Inquiry

Is there a KDB inquiry associated with this application? No

## Modular Equipment

Modular Type: Does not apply

## Application Purpose

Application is for: Original Equipment

## Composite/Related Equipment

Is the equipment in this application a composite device subject to an additional equipment authorization? Yes

Is the equipment in this application part of a system that operates with, or is marketed with, another device that requires an equipment authorization? No

## Test Firm Information

Name of test firm and contact person on file with the FCC:

Firm Name: Vista Laboratories, Inc. (/Test-Firm/Vista-Laboratories-Inc)

First Name: David

Last Name: Zhang

Telephone Number: +1 (949) 464-7589 Extension:

E-mail: info@vista-compliance.com

## Grant Comments

Enter any text that you would like to appear at the bottom of the Grant of Equipment Authorization:

Power output listed is the maximum combined conducted power. The 2.4GHz WLAN of this device is operating in a 3x3 Spatial Multiplexing MIMO configuration as described in this filing. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. The 2.4GHz WLAN of this device supports 20MHz and 40MHz bandwidth.

Set the grant of this application to be deferred to a specified date:

No

## Equipment Authorization Waiver

Is there an equipment authorization waiver associated with this application? No

If there is an equipment authorization waiver associated with this application, has the associated waiver been approved and all information uploaded?: No

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

## SECTION 5301 (ANTI-DRUG ABUSE) CERTIFICATION:

The applicant must certify that neither the applicant nor any party to the application is subject to a denial of Federal benefits, that include FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862 because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the definition of a "party" for these purposes.

Does the applicant or authorized agent so certify? Yes

## Applicant/Agent Certification:

I certify that I am authorized to sign this application. All of the statements herein and the exhibits attached hereto, are true and correct to the best of my knowledge and belief. In accepting a Grant of Equipment Authorization as a result of the representations made in this application, the applicant is responsible for (1) labeling the equipment with the exact FCC ID specified in this application, (2) compliance statement labeling pursuant to the applicable rules, and (3) compliance of the equipment with the applicable technical rules. If the applicant is not the actual manufacturer of the equipment, appropriate arrangements have been made with the manufacturer to ensure that production units of this equipment will continue to comply with the FCC's technical requirements.

Authorizing an agent to sign this application, is done solely at the applicant's discretion; however, the applicant remains responsible for all statements in this application.

If an agent has signed this application on behalf of the applicant, a written letter of authorization which includes information to enable the agent to respond to the above section 5301 (Anti-Drug Abuse) Certification statement has been provided by the applicant. It is understood that the letter of authorization must be submitted to the FCC upon request, and that the FCC reserves the right to contact the applicant directly at any time.

Signature of Authorized Person Filing: Jeremy Eckerman  
Title of authorized signature: International Approvals Specialist

Complete items below if agent signs the application:

Firm Name: Wireless Approval Consultants  
Name: Jeremy Jeremy Jeremy  
Line 1: Jeremy  
Line 2: Jeremy  
P.O. Box: Jeremy  
City: Jeremy  
State: Jeremy  
Country: Jeremy  
Zip Code: Jeremy  
Telephone Number: 8102295123  
E-mail: jeremy@w-app.com

**Applications are submitted for FCC ID and Grant requests. Click an above application to view details**

# Grants

- 1 TCB (2019-12-13)
- 1 EAS (2019-12-13)
- 2 TCB (2019-12-13)
- 2 EAS (2019-12-13)
- 3 TCB (2019-12-13)
- 3 EAS (2019-12-13)
- 4 TCB (2019-12-13)
- 4 EAS (2019-12-13)

TCB	<p><b>GRANT OF EQUIPMENT AUTHORIZATION</b></p> <p>Certification</p> <p>Issued Under the Authority of the Federal Communications Commission</p> <p>By:</p> <p>Vista Laboratories, Inc. 1261 Puerta Del Sol San Clemente, CA 92673</p>	TCB
<p><b>Ford Motor Company</b> <b>Building 5</b> <b>20300 Rotunda Dr.</b></p>		<p>Date of Grant: 12/13/2019</p> <p>Application Dated: 12/13/2019</p>

**Dearborn, MI 48124**

**Attention: David Orris , Product Development Engineer**

**NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: KMH-14H074-NA1

**Name of Grantee:** Ford Motor Company

**Equipment Class:** Unlicensed National Information

**Infrastructure TX**

**Notes:** Telematics Control Unit

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
CC MO	<b>15E</b>	<b>5500.0 - 5720.0</b>	<b>0.019</b>		
CC MO	<b>15E</b>	<b>5745.0 - 5825.0</b>	<b>0.014</b>		

Power output listed is the maximum combined conducted power. The 5GHz WLAN of this device is operating in a 2x2 Spatial Multiplexing MIMO configuration as described in this filing. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. The 5GHz WLAN of this device supports 20MHz, 40MHz and 80MHz bandwidth.

CC: This device is certified pursuant to two different Part 15 rules sections.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.

**Grants authorize equipment for operation at approved frequencies and sale within the USA. Click an above grant to view details**

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