TEST REPORT



KCTL Inc.

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr Report No.: KR18-SRF0005-A

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1. Client

Name

: Continental Automotive Systems Corporation

Address

: 45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea

Date of Receipt

: 2017-12-18

2. Use of Report

: -

3. Name of Product and Model

: Smart Key ECU / IBU1.0 non-SMK

4. Manufacturer and Country of Origin:

Continental Automotive Systems Corporation

/ Korea

5. FCC ID

: SY5IBU10NONSMK

6. IC

: 8325A-IBU10NONSMK : 2018-01-03 to 2018-01-04

7. Date of Test

FCC Part 15 Subpart C, 15.209

8. Test Standards

RSS-210 Issue 9 August 2016

RSS GEN Issue 4 November 2014

9. Test Results

: Refer to the test result in the test report

Affirmation

Tested by

Name: Dowon Ahn

(Signature)

Technical Manager

Name: Jongha Choi

(Signature)

2018-02-20

KCTL Inc.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.

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REPORT REVISION HISTORY

| Date | Revision | Page No |
|------------|-------------------|---------|
| 2018-01-12 | Originally issued | - |
| 2018-02-20 | Added note | 12 |
| - | | |
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1. Client information

Applicant: Continental Automotive Systems Corporation

Address: 45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea

Telephone number: +82 31 645 4864 **Facsimile number:** +82 31 637 0371

Contact person: Sungmin Jang / Sungmin.Jang@continental-corporation.com

Manufacturer: Continental Automotive Systems Corporation

Address: 45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea



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2. Laboratory information

Address

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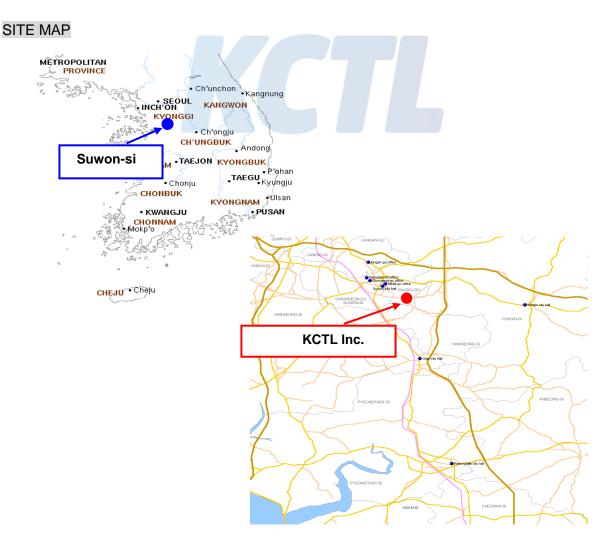
Telephone Number: 82 31 285 0894 Facsimile Number: 82 505 299 8311

FCC Site Designation No: KR0040, FCC Site Registration No: 687132

VCCI Registration No.: R-3327, G-198, C-3706, T-1849

Industry Canada Registration No.: 8035A

KOLAS NO.: KT231



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3. Description of E.U.T.

3.1 Basic description

| Applicant | Continental Automotive Systems Corporation |
|-------------------------|---------------------------------------------------------|
| Address of Applicant | 45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea |
| Manufacturer | Continental Automotive Systems Corporation |
| Address of Manufacturer | 45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea |
| Type of equipment | Smart Key ECU |
| Basic Model | IBU1.0 non-SMK |
| Serial number | N/A |

3.2 General description

| Frequency Range | 125 kHz |
|-----------------------------|---------------------|
| Type of Modulation | ASK |
| The number of channels | 1 ch |
| Type of Antenna | IMMOBILIZER Antenna |
| Power supply | DC 12.00 V |
| Product SW/HW version | 1.0 / 1.0 |
| Radio SW/HW version | 1.0 / 1.0 |
| Test SW Version | N/A ₁₎ |
| RF power setting in TEST SW | N/A ₂₎ |

Note₁): The above EUT information was declared by the manufacturer.

Note₂₎: N/A₁₎ There is no test software used during the test.

 $N\!/A_{2)}$ RF power setting was not able to alter during the test.

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3.3 Test frequency

| Test Frequency [tb] |
|---------------------|
| 125 kHz |

3.4 Normal and extreme test conditions

| Test condition | Temperature $[^{\circ}\mathbb{C}]$ | Voltage [V] |
|----------------|------------------------------------|-------------|
| NTNV | 22 | DC 12 V |

Note 1: N:Normal T:Temperature V:Voltage H:Highest L:Lowest



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4. Summary of test results

4.1 Standards & results

| FCC Rule Reference | IC Rule Reference | Parameter | Report Section | Test Result | |
|-----------------------------------------------------------------------------|----------------------|-------------------------------|-------------------|----------------|--|
| 15.203 | - | Antenna Requirement | 5.1 | С | |
| 15.209(b)(3) | RSS-210, Issue 9 | Field Strength of Fundamental | 5.2 | С | |
| 15.205(a),15.209(a) | RSS-210, Issue 9 | Spurious Emission | 5.3 | С | |
| - | RSS-GEN, 6.6 | Occupied Bandwidth | 5.4 | С | |
| Note: C = complies, NC = Not complies, NT = Not tested, NA = Not Applicable | | | | | |

4.2 Uncertainty

| Measurement Item | Expanded Uncertainty $U = kUc (k = 2)$ | | |
|------------------------------|----------------------------------------|-----------------------------------|--|
| Conducted RF power | 1. | . 44 dB | |
| Conducted Spurious Emissions | 1. | .52 dB | |
| | 30 MHz ~ 300 MHz: | +4.94 dB , -5.06 dB | |
| | 30 Mil ~ 300 Mil. | +4.93 dB, -5.05 dB | |
| Radiated Spurious Emissions | 300 MHz ~ 1 000 MHz: | +4.97 dB , -5.08 dB | |
| | 300 MHz ~ 1 000 MHz. | +4.84 dB , -4.96 dB | |
| | 1 GHz ~ 25 GHz: | +6.03 dB, -6.05 dB | |
| Conducted Emissions | 9 kHz ~ 150 kHz: | 3.75 dB | |
| Conducted Emissions | 150 kHz ~ 30 MHz: | 3.36 dB | |

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5. Test results

5.1 Antenna Requirement

5.1.1 Regulation

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.1.2 Result

-Complied

The IMMOBILIZER Antenna and is an external antenna that uses unique antenna connector, and no antenna other than that furnished by the responsible party shall be used with the device.

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5.2 Field strength of Fundamental

5.2.1 Regulation

According to §15.209(a),

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: 83

| Frequency (Mz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|----------------|-----------------------------------|-------------------------------|
| 0.009 - 0.490 | 2 400/F(kHz) | 300 |
| 0.490 - 1.705 | 24 000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 ** | 3 |
| 88 - 216 | 150** | 3 |
| 216 - 960 | 200** | 3 |
| Above 960 | 500 | 3 |

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 Mz, 76-88 Mz, 174-216 Mz or 470-806 Mz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241..

According to §15.231(b)

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

| Fundamental Frequency (Mtz) | Field Strength of Fundamental (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) |
|--------------------------------|--------------------------------------------------------|---------------------------------------------------------------|
| 40.66 - 40.70 | 2,250 | 225 |
| 70 - 130 | 1,250 | 125 |
| 130 - 174 | 1,250 to 3,750 ** | 125 to 375 ** |
| 174 - 260 | 3,750 | 375 |
| 260 - 470 | 3,750 to 12,500 ** | 375 to 1,250 ** |
| Above 470 | 12,500 | 1,250 |

^{**} linear interpolations

Where F is the frequency in ME, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 ME, μV /m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 ME, μV /m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

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5.2.2 Test procedure

The method of measurement used to test this Unlicensed Wireless device is ANSI C63.10-2013.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 %, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 %, the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. It tested x,y and z 3 axis each, mentioned only worst case data at this report.

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5.2.3 Test Result

- Complied

| Frequency | Resolution Bandwidth | Pol. | Reading | Cable Loss | Amp Gain | Antenna Factor | Factor | Result [dB(µV/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin |
|-----------|-------------------------|-------|----------------|---------------|-------------|-------------------|--------|-------------------|------------------------------|---------------------|--------|
| [MHz] | [kHz] | [V/H] | [dB(μ V)] | [dB] | [dB] | [dB] | [dB] | at 3m | at 300m | at 300m | [dB] |
| 0.125 | 9 | Н | 65.60 | 0.16 | -32.76 | 19.6 | -13.20 | 52.40 | -27.60 Note ₂₎ | 25.67 | 53.27 |

Note 1): Factor(dB) = Antenna Factor + Amp. Gain + Cable Loss

Note $_{2)}$: -80 is distance factor = 40*log(3/300)



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5.3 Spurious Emission

5.3.1 Regulation

According to §15.209(a),

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table: 83

| Frequency (১١١/١) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 - 0.490 | 2 400/F(kHz) | 300 |
| 0.490 - 1.705 | 24 000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 ** | 3 |
| 88 - 216 | 150** | 3 |
| 216 - 960 | 200** | 3 |
| Above 960 | 500 | 3 |

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 Mb, 76-88 Mb, 174-216 Mb or 470-806 Mb. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241..

According to §15.231(b)

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

| Fundamental Frequency (Mb) | Field Strength of Fundamental (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) | |
|-------------------------------|--------------------------------------------------------|---------------------------------------------------------------|--|
| 40.66 - 40.70 | 2,250 | 225 | |
| 70 - 130 | 1,250 | 125 | |
| 130 - 174 | 1,250 to 3,750 ** | 125 to 375 ** | |
| 174 - 260 | 3,750 | 375 | |
| 260 - 470 | 3,750 to 12,500 ** | 375 to 1,250 ** | |
| Above 470 | 12,500 | 1,250 | |

^{**} linear interpolations

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5.3.2 Measurement Procedure

The method of measurement used to test this Unlicensed Wireless device is ANSI C63.10-2013.

- a. The EUT was placed on the top of a rotating table 0.8 meters, 1.5 meter above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 % the EUT was set 3 meter away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. It tested x,y and z 3 axis each, mentioned only worst case data at this report.

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5.3.3 Test Result

- Complied

| Frequency | Resolution Bandwidth | Pol. | Reading | Cable Loss | Amp Gain | Antenna Factor | Factor | Result | Limit | Margin |
|------------------|-------------------------|-------|----------|---------------|-------------|-------------------|--------|-----------------|------------------------------|--------|
| [MHz] | [kHz] | [V/H] | [dB(μV)] | [dB] | [dB] | [dB] | [dB] | $[dB(\mu V/m)]$ | [dB(<i>µ</i> V/ m)] | [dB] |
| Quasi-Peak DATA. | | | | | | | | | | |
| 2.33 | 9 | V | 43.00 | 0.38 | -32.71 | 19.63 | -12.70 | 30.30 | 69.50 | 39.20 |
| 11.53 | 9 | Ι | 40.70 | 0.93 | -32.67 | 19.64 | -12.10 | 28.60 | 69.50 | 40.90 |
| 117.06 | 120 | V | 37.80 | 2.32 | -36.57 | 18.05 | -16.20 | 21.60 | 43.50 | 21.90 |
| 170.41 | 120 | V | 37.30 | 2.86 | -31.99 | 15.63 | -13.50 | 23.80 | 43.50 | 19.70 |
| 211.51 | 120 | V | 37.60 | 3.21 | -34.88 | 15.97 | -15.70 | 21.90 | 43.50 | 21.60 |
| 380.05 | 120 | Η | 36.50 | 4.43 | -34.53 | 21.20 | -8.90 | 27.60 | 46.00 | 18.40 |
| 539.98 | 120 | Η | 31.00 | 5.37 | -33.29 | 23.82 | -4.10 | 26.90 | 46.00 | 19.10 |
| 888.09 | 120 | Η | 30.50 | 6.97 | -30.07 | 26.40 | 3.30 | 33.80 | 46.00 | 12.20 |

Note: Factor(dB) = Antenna Factor + Amp. Gain + Cable Loss



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5.4 Occupied Bandwidth

5.4.1 Regulation

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth. When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

5.4.2 Measurement procedure

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

A peak, or peak hold, may be used in place of the sampling detector as this may produce a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold may be necessary to determine the occupied bandwidth if the device is not transmitting continuously.

The trace data points are recovered and are directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded.

The difference between the two recorded frequencies is the 99% occupied bandwidth.

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5.4.3 Test Result

- Complied

| Voltage [V] | Frequency [kllz] | Occupied Bandwidth (99 % BW) [Hz] | | |
|-------------|------------------|--------------------------------------|--|--|
| DC 12.00 | 125 | 209.84 | | |

NOTE: We took the insertion loss of the cable loss into consideration within the measuring instrument.



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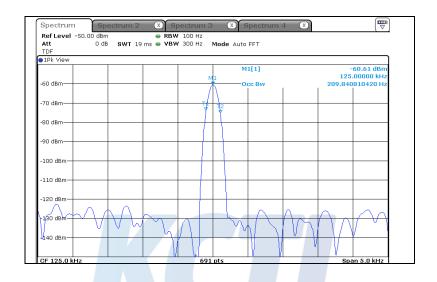
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5.5.4 Test Plot

Figure 2. Plot of the Occupied Bandwidth (Conducted)

- Occupied Bandwidth



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6. Test equipment used for test

| Equipment Name | Manufacturer | Model No. | Serial No. | Next Cal. Date |
|----------------------------|--------------|--------------|------------|-------------------|
| DC Power Supply | Agilent | E3632A | MY40017108 | 18.05.15 |
| Loop Antenna | R&S | HFH2-Z2 | 100355 | 18.03.03 |
| Bilog Antenna | SCHWARZBECK | VULB9168 | 440 | 19.10.23 |
| Attenuator | HP | 8491B | 22891 | 18.08.24 |
| Amplifier | SONOMA | 310N | 344922 | 18.08.25 |
| EMI Test Receiver | R&S | ESCI7 | 100732 | 18.08.24 |
| Spectrum Analyzer | R&S | FSV40 | 100988 | 19.01.05 |
| Vector Signal Generator | R&S | SMBV100A | 257566 | 19.01.05 |
| Signal Generator | R&S | SMR40 | 100007 | 18.05.15 |
| Cable Assembly | Gigalane | RF-400 | - | - |
| Cable Assembly | Radiall | 2301762000PJ | 1724.66 | - |
| MAGNETIC FIELD TESTER | HIOKI | FT3470-52 | 171129500 | 18.12.26 |
| Laser Probe Interface | AR | FI7000 | 343711 | 18.06.09 |
| System Interface | AR | SI-300 | 6206 | 18.06.09 |