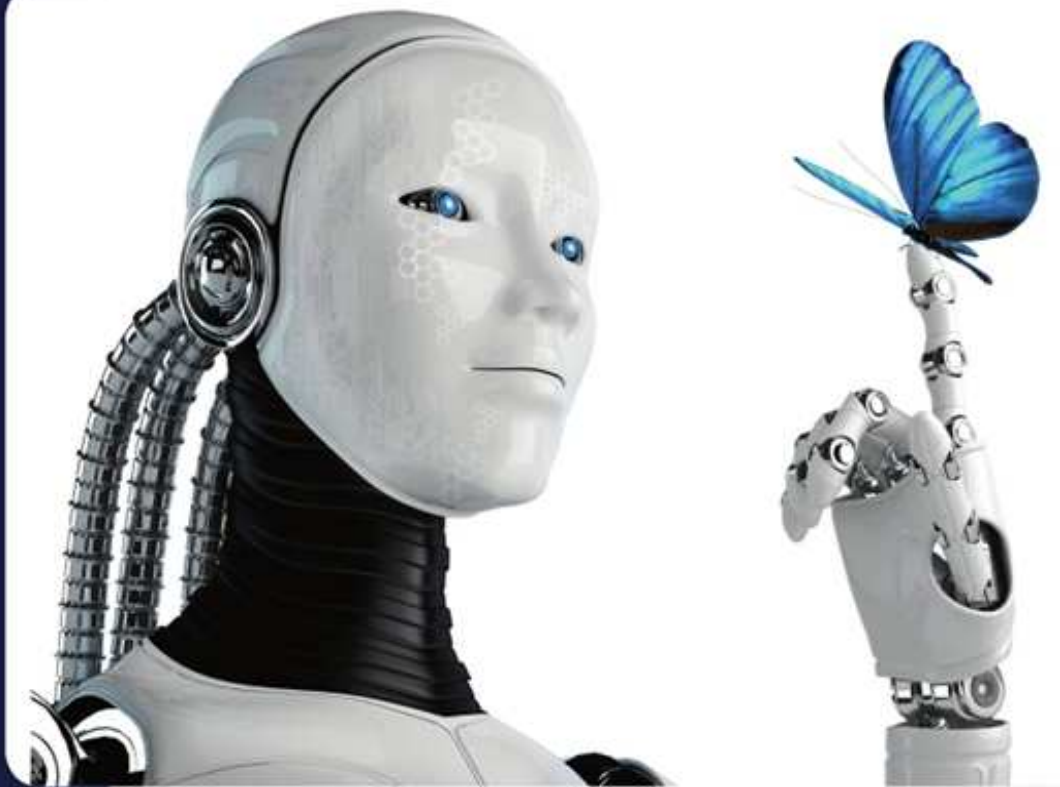


Newsletter July, 2018



ICR



Hot Issue

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FCC Completion

**FEDERAL COMMUNICATIONS COMMISSION
Laboratory Division
7435 Oakland Mills Rd
Columbia, MD 21046**

To: ICR Co., Ltd.

From: Dave Galosky

Date:
June 21, 2018

Test Firm Name:
ICR Co., Ltd. Designation Number:
KR0165
Test Firm Registration Number:
490614

We have been notified by National Radio Research Agency that ICR Co., Ltd. has been accredited as a testing laboratory. At this time ICR Co., Ltd. is here by recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DOC) and Certification rules for the following scope(s):
Unintentional Radiators - FCC Part 15, Subpart B
Industrial, Scientific, and Medical Equipment - FCC Part 18
This recognition will expire upon expiration of the accreditation or notification of withdrawal of Commission's recognition.
Any questions concerning this email should be submitted as an inquiry to the FCC Knowledge Database at www.fcc.gov/kdb.

On June 21, 2018 at the **FCC** Designated.
Based on this, **ICR Co., Ltd.** offers **FCC Part 15** and **FCC Part 18** FCC examinations.

RRA Completion





RRA Completion

On June 1, 2018 at the **RRA Electro Magnetic Compatibility, Radio Frequency, Electromagnetic wave Intensity All** Additional Designated.

Based on this, **ICR Co., Ltd.** Has developed a **KC test certification / registration** is provided.

Thank you for your interest.

Professors of Han-Seo university visited ICR



A vice president and professors of Han-Seo university visited ICR on June 22th, 2018.

On November 6th, 2017, Both of organizations agreed to work together for establishing of education for skilled workers, exchanging information for talented workers, cooperating with facilities and equipment use of both institutions, supporting internship program and employment supports and also researching on R&D projects.



ISO 45001:2018 Migration Audit Instruction

In March 2018, Occupational Health & Safety Management System(OH&SMS) was reviewed and published from OHSAS 18001:2007 to ISO 45001:2018.

As a result, IAF issued MD 21, Requirements for Migration to ISO 45001:2008 from OHSAS 18001:2007.



ISO 45001:2018 Migration Audit Instruction

Followings are main requirements.

- The migration period is three-year from the publication date of ISO 45001:2018.
- Where migration audits are carried out in conjunction with scheduled surveillance or recertification then a minimum of 1 auditor man-day is required to be added to cover existing and new requirements implied by ISO 45001:2018.
- The decision to issue certification to ISO 45001:2018 shall only be made once actions in respect of all outstanding major non-conformities have been reviewed, accepted and verified and the client's corrective action plan for any minor non-conformities has been reviewed and accepted.

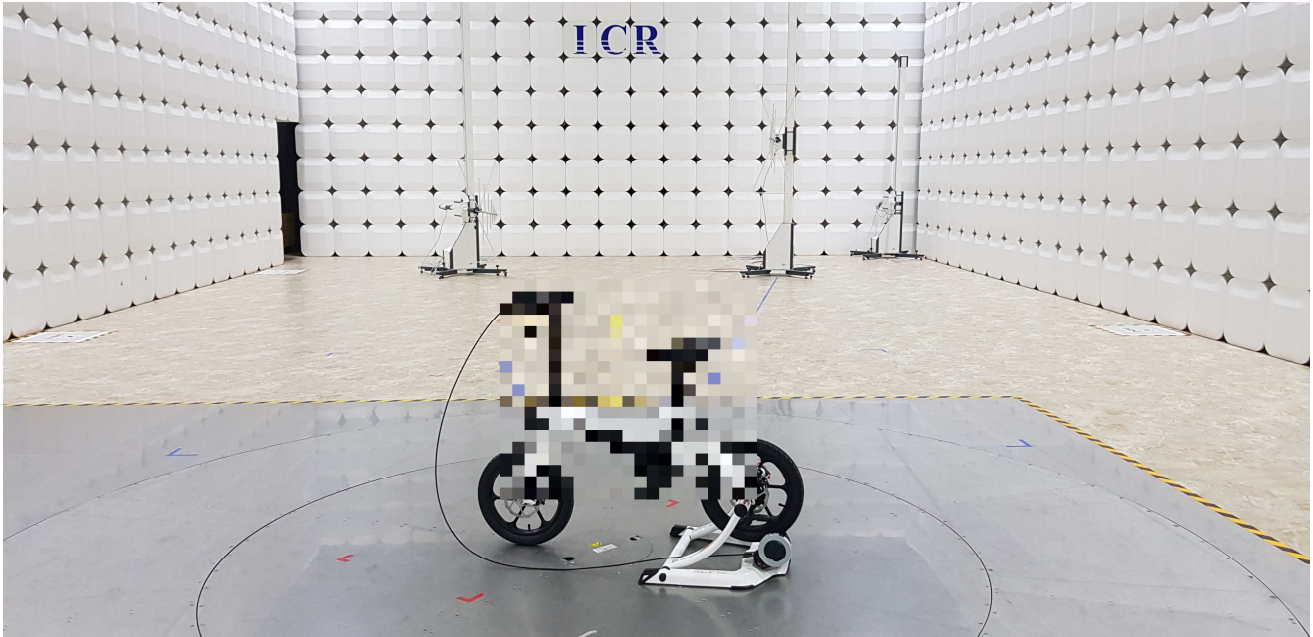


ISO 45001:2018 Migration Audit Instruction

ICR revised and established, ISO 45001:2018 migration instruction for OHSAS 18001:2007 certified clients(OHSI-08), OHSMS certification audit day calculation instruction(OHSI-02), and etc; and based on the instructions, certification audit service will be provided.



KN 15194 Electric Cycle



According to the application of electric bicycle of the KN 15194.

Provide to test electric bicycle 10 m FAC of ICR.

Electric bicycle equipped with an electric propulsion motor shall be tested with the electric driven on axle stand, with a constant speed with load.

So, We provide more axle stands for testing electric bicycle.



KN 15194 Electric Cycle



Our Power amplifier and Transmitter antennas support Radiated RF immunity testing for the KN 15194.

Frequency range : 20 MHz to 2 000 MHz @ 24 V/m



MD Test & EMC Test

ICR is accredited in accordance with the recognized International Standard ISO/IEC 17025 from 2015. ICR provide testing service with MD and EMC, ICR also issues and provides the **test report with KOLAS Mark**.

According to IEC/EN 60204-1, machinery electrical tests

1. The continuity of the protective bonding circuit
2. Insulation resistance tests
3. Voltage tests
4. Protection against residual voltages

Testing and test reports in accordance with IEC/EN 60204-1 are required for national / international certifications.

The test report is required for **KCS safety certification and S-mark** as domestic, **CE, SASO, etc** for abroad.



MD Test & EMC Test

Testing and test reports in accordance with IEC/EN 61000 series are also required for national / international certifications. The test report is required for **KC certification, KCS safety certification and S-mark** as domestic, **CE, etc** for abroad.

According to IEC/EN 61000 series, EMC (Electromagnetic Compatibility) tests

1. EMI (Electromagnetic Interference)
 1. Conducted Emission (CE)
 2. Radiated Emission (RE)
2. EMS (Electromagnetic Susceptibility)
 1. Electrostatic Discharge(ESD)
 2. Radiated Susceptibility(RS)
 3. Electrical Fast Transient (EFT)
 4. Surge
 5. Conducted Susceptibility (CS)
 6. Voltage Dip

The end 5G frequency auction in Korea



The 5th generation (G) mobile communication auction ended on June 18, and three telecommunication companies put out their respective positions. They are generally satisfied with the results.

According to the Ministry of Science and Technology, the auction was concluded with the total winning bid of 3,618.3 billion won of the 5G frequency auction, which was held on June 18th.





The end 5G frequency auction in Korea

In the case of the 3.5GHz (gigahertz) band, which was favorable to the nationwide network, SK Telecom and KT each had a maximum bandwidth of 100MHz, while LG U + took 80MHz.

The telecom industry responded that the three telecom companies, each of whom had originally expected the range, were generally satisfied.

SK Telecom said, "In the 3.5GHz band, which is the core of the frequency auction, we have secured the band with the maximum total bandwidth of 100MHz and easy frequency expansion. We will provide the fastest 5G service to the most subscribers most reliably."



The end 5G frequency auction in Korea



KT said, "I am satisfied with the result of this auction and it was a reasonable auction according to the market principle. KT will make use of this to establish itself as a leading 5G carrier."

LG U+ said, "We will not merely focus on volume or speed competition and plan to make the most of our allocated 5G frequencies. Hotspot areas where data traffic is concentrated will be complemented by the allocated 28GHz band, allowing customers to enjoy 5G speeds."





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