VCCI DAYORI

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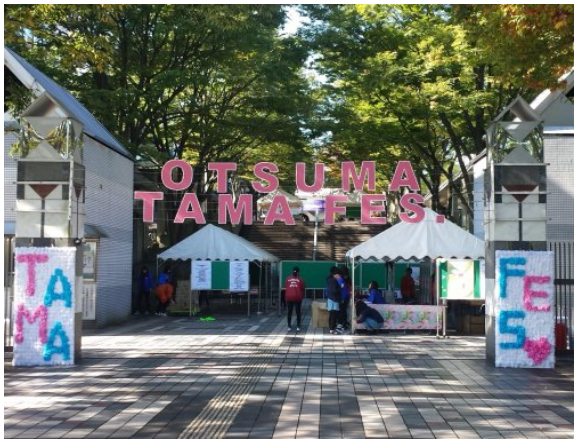
Contribution

What is "media influence"?

Tomokazu Makino

My name is Tomokazu Makino, and I teach sociology for the Faculty of Human Relations at Otsuma Women's University. When I was given the opportunity to contribute an article to this publication, I had a lot of trouble deciding what to write about. But then, I thought about why VCCI was established - to self-regulate the suppression of failures caused by electromagnetic interference from electronic and electrical equipment - and decided to use that as a springboard for my topic.



The students learn in a campus filled with lush greenery.

While failures caused by electronic and electrical equipment are an example of *things* influencing *things*, a topic that has sparked debate throughout the world is these *things'* influence on *humans*. Now, the influence of electromagnetic waves on the human body is certainly a concern..... but here, I'd like to share some words on a topic of ongoing research in sociology: the media's influence on human thought.

Just what kind of influence does the media have on humans? Maybe you imagine the media transmitting messages straight into people like bullets; that is, brainwashing them. This is an actual theoretical model from the early days of research on the effects of mass communication, known as the "magic bullet theory" or the "hypodermic needle theory". Spanning from World War I to World War II, this was an age concerned with wartime propaganda (information spread to increase the people's support for war). This model certainly might seem accurate when we think about wartime Japan, or Nazi Germany and Hitler.

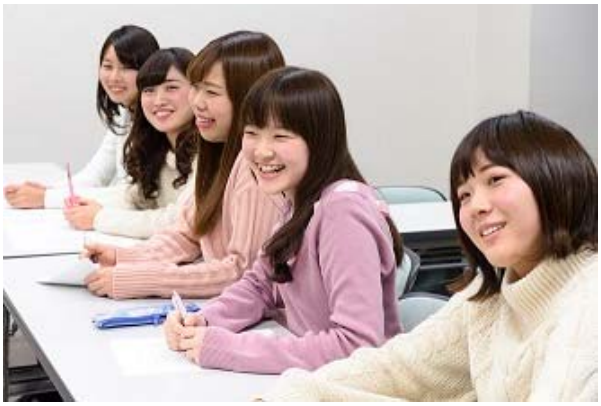
However, looking past the particular circumstances of war, and at the mounting research on our everyday interactions with mass media, we began to reject this sort of bullet theory. In its place arose "limited effects" theories. There was a famous investigation into the influence of the mass media on U.S. presidential elections in the interwar period. The resulting analysis made clear that people rarely make voting decisions based on direct influence from the mass media. Instead, they are influenced by trusted people in their lives (opinion leaders) who interpret the information given in the media for them.

Before long, though, came the television age. In 1953, NHK began officially broadcasting in Japan, achieving a 91% penetration rate within a decade. Unlike the newspapers and radio that had previously made up the mainstream media, television transmitted messages in both visual and audio format. The rise of television made us rethink the nature of the effects of mass media.

"Powerful effects" theories came back into favor. Famous theories include the "agenda-setting theory" and "spiral of silence theory". The former concerns the idea that the mass media picks and chooses what information

to present. Television and newspapers are both limited in the amount of information they can convey. Therefore, information worth communicating is chosen based on factors such as newsworthiness and novelty, and then conveyed to audiences. However, this selection process is invisible to the audience. As a result, we often assume that the information presented in the mass media is all the information there is. For example, I'm sure many of us have seen news relating to elections, and thought that it was missing the important issues at hand, or not covering issues it should. The same goes for other topics; we often see celebrity gossip in the news and think to ourselves, "that isn't worth reporting". But can we really feel that way about, say, news on other countries' political conflicts, or highly specialized science and technology? For the most part, we accept what the mass media tells us is "worth knowing on a topic", and this is all that informs our thinking.

The "spiral of silence theory" posits that when a viewpoint is accepted, it often continues to gain momentum and support from the majority of the population not because it is correct, but merely because it is the majority viewpoint. Meanwhile, those with minority viewpoints are discouraged to speak, spiralling further into silence. Although this theory was first published in 1966, it is becoming increasingly plausible in light of internet culture today.



Small class sizes are a feature of the Faculty of Human Relations at Otsuma Women's University.

Sociology is a broad area of study, covering the family, education, labor, culture, and all regions of the world. In the study of mass media, the basic theories I outlined are really only a backdrop to much more detailed research. Every year, students write their graduation theses on the topic of mass media. They write about the effects of violence in the media, the influence of new forms of media on young people's views on and approaches to romantic relationships, the differences between types of media in reporting crime, and the list goes on. I hope that with the guidance of such theses as well as my own published research, more and more people will be able to truly think about mass media based on solid evidence, without exaggerating or understating the media's influence.

Tomokazu Makino
Born in Tokyo, 1980
Graduated from the Department of Education, Waseda University
After completing his postgraduate education at Waseda,
he began a fellowship at the Japan Society for the Promotion of Science,
and is currently an Associate Professor and Professor of Education at the
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Committee Activities

● Steering Committee

Date	November 22 and December 22, 2017; January 17, 2018
Agenda items	● Agenda item 1 Discuss the business plan for FY 2018 ● Agenda item 2 Discuss the draft budgetary plan for FY 2018 ● Agenda item 3 Discuss the acceptance of VCCI membership applicants from October to December ● Agenda item 4 On the rules for appointing the chairperson for the next term of the Steering Committee
Continuing agenda items	● Agenda item 2
Decisions and reported items	● Agenda item 1 Plan was accepted ● Agenda item 3 Applicants were accepted ● Agenda item 4 A policy for appointment rules was approved ● Reported item 1 Activity reports for the period from October to December were made for each dedicated subcommittee (Technical, International Relations, Market Sampling Test, Education, Communication) ● Reported item 2 Status report for the period from October to December regarding secretariat work (trends in joining and leaving members, the number of compliance verification reports) ● Reported item 3 Progress report on the FY 2017 budget (membership fees and expenditure by project) for the period from October to December ● Reported item 4 Business trip report for the REDCA general assembly held in Porto in November (see page 16) ● Reported item 5 Report on the Kagawa "EMC training session" VCCI seminar (see page 20)

● Technical Subcommittee

Date	December 15, 2017; January 22, 2018
Agenda items	● Agenda item 1 Activities by the Technical Subcommittee and working groups in FY 2017 ● Agenda item 2 Technical symposium 2018 ● Agenda item 3 Review the documents regarding maintenance work for CISPR 32 Ed.2.0 ● Agenda item 4 Verification of the CISPR 32 Ed.2.0 maintenance cable layout ● Agenda item 5 Proposal for inclusion of VHF-LISN in the CISPR standards ● Agenda item 6 On the February 2018 CISPR SC-I/MT7 and SC-A&I J-AHG (Milan meeting) ● Agenda item 7 On the Technical Subcommittee's planned activities for FY 2018
Continuing agenda items	● Agenda item 3 ● Agenda item 4 ● Agenda item 5 ● Agenda item 7
Decisions and reported items	● Reported item The 2018 technical symposium will be held on January 12.

● International Relations Subcommittee

Date	November 10 and December 14, 2017; January 12, 2018
Agenda items	● Agenda item 1 Investigation into trends in world EMC standards ● Agenda item 2 Planned activities for FY 2018
Continuing agenda items	● Agenda item 1 Creation of materials for investigation into trends in world EMC standards
Decisions and reported items	● Materials on the investigation into trends in world EMC standards were published on the members-only page "The study of EMC regulations in the world" on November 10.

● Market Sampling Test Subcommittee

Date	November 1 and December 8, 2017; January 12, 2018
Agenda items	● Agenda item 1 Document examination ● Agenda item 2 Action on cases of "Failed – tentative" ● Agenda item 3 Consideration of preferential treatment ● Agenda item 4 Business plan and budget for FY 2018 ● Agenda item 5 Compliance examinations for non-member products ● Agenda item 6 Consideration of the sampling test method in line with the new version of "Technical Requirements"
Continuing agenda items	● Agenda item 2 There were six cases of "Failed – tentative". Two of these were determined to be faulty by the members who supplied the samples. Two were evaluated as "Failed" and now failure corrective actions are under way. The remaining two cases are now being investigated by the members. ● Agenda item 3 There are two applications stating that EMI quality checks are periodically performed on mass-produced products, and we are now discussing whether these cases can be made exempt from testing. One has been exempted, while the other is awaiting a test in January. ● Agenda item 5 We are planning a compliance examination for non-member products. Selected products include those that display VCCI logos improperly. ● Agenda item 6 We have summarized the changes in the new version of "Technical Requirements", and inquired of the Technical Subcommittee.
Decisions and reported items	● Agenda item 1 16 application documents were examined. We have pointed out our concerns, for example, regarding operation modes, testing conditions, and warning notes in instruction manuals, and clarified everything based on the replies to our concerns. We have finished examining the 40 documents planned for this fiscal year. ● Agenda item 4 Discuss our business plan and budget for FY 2018: We plan to conduct 100 sampling tests. For preferential treatment, we will extend the experimental period.

● Education Subcommittee

Date	November 8 and December 14, 2017; January 12, 2018
Agenda items	● Agenda item 1 On considerations to review textbooks for education and training planned for FY 2018 ● Agenda item 2 On the survey results for the 45th and 46th measurement engineer training sessions for up to 1GHz, and the third automatic/manual measurement application course ● Agenda item 3 On revising the sample equipment supplied for education and training ● Agenda item 4 On our plans for the education and training business in FY 2018
Continuing agenda items	● Agenda item 1 Textbooks for the new "Uncertainty in EMI Measurements" and "Measurement of Radiated Emissions above 1GHz" sessions to be held in FY 2018 will be discussed in the next session. ● Agenda item 3 ● Agenda item 4
Decisions and reported items	● Education and training business for FY 2017 • The 45th measurement engineer training session for up to 1GHz was held on October 19, 20, 26, and 27, and 12 people attended. • The 46th measurement engineer training session for up to 1GHz was held on October 19 and 20, and November 1 and 2, and 12 people attended. • The third automatic/manual measurement application course was held on December 1, and 18 people attended. • All survey results show that participants were satisfied. • All education and training planned for FY 2017 has been completed.

● Communication Subcommittee

Date	November 2 and December 8, 2017; January 12, 2018
Agenda items	● Agenda item 1 On the sign in JR Osaka station (new) ● Agenda item 2 On videos ● Agenda item 3 On the planned activities for FY 2018 ● Agenda item 4 On the activity budget for FY 2018 ● Agenda item 5 On the overseas exhibition in FY 2018
Continuing agenda items	● Agenda item 2 ● Agenda item 3 ● Agenda item 4
Decisions and reported items	● Agenda item 1 The secretariat has reported the placement of a sign in JR Osaka station on December 1. ● Agenda item 5 The secretariat has reported that they have applied for an exhibit in COMPUTEX TAIPEI 2018, which will be held in June this year.

● Measurement Facility Registration Committee

Date	November 20, 2017
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions	Conformity certified (including cases certified with qualification comments after checking of supplementary papers): 27 companies Radiated EMI measuring facilities: 11 Mains ports conducted EMI measuring facilities: 12 Telecommunication ports conducted EMI measuring facilities: 10 Radiated EMI measurement facilities above 1GHz: 13 Applications returned with comments: None Applications carried over to the next meeting: 1
Date	December 11, 2017
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions	Conformity certified (including cases certified with qualification comments after checking of supplementary papers): 19 companies Radiated EMI measuring facilities: 7 Mains ports conducted EMI measuring facilities: 4 Telecommunication ports conducted EMI measuring facilities: 9 Radiated EMI measurement facilities above 1GHz: 9 Applications returned with comments: None Applications carried over to the next meeting: None
Date	January 22, 2018
Agenda items	Reviewed the result of deliberations by the Measurement Facility Examination WG and concluded as follows
Decisions	Conformity certified (including cases certified with qualification comments after checking of supplementary papers): 24 companies Radiated EMI measuring facilities: 14 Mains ports conducted EMI measuring facilities: 7 Telecommunication ports conducted EMI measuring facilities: 6 Radiated EMI measurement facilities above 1GHz: 8 Applications returned with comments: None Applications carried over to the next meeting: None

●LIST OF ABBREVIATIONS used in Committee Activities section

Abbreviation	Full Name
AAN	Asymmetric Artificial Network
AMN	Artificial Mains Network
ANSI	American National Standards Institute
APD	Amplitude Probability Distribution
APLAC	Asia Pacific Laboratory Accreditation Corporation
AQSIQ	General Administration of Quality Supervision , Inspection and Quarantine of the People's Republic of China
BSMI	Bureau of Standards, Metrology and Inspection
CALTS	Calibration Test Site
CB	Certification Body
CB	Competent Body
CCC	China Compulsory Product Certification
CD	Committee Draft
CDN	Coupling Decoupling Network
CDNE	Coupling Decoupling Network for Emission
CDV	Committee Draft for Vote
CEMC	China Certification Center for Electromagnetic Compatibility
CEN	European Committee for Standardization
CENELEC	European Committee for Electro Technical Standardization
CISPR	International Special Committee on Radio Interference
CMAD	Common Mode Absorbing Device
CQC	China Quality Certification Center
CSA	Classical (Conventional) Site Attenuation
CSA	Canadian Standards Association
DAF	Dual Antenna Factor
DC	Document for Comment
DoC	Declaration of Conformity
DOW	Date of Withdrawal
DTI	Department of Trade and Industry
DUT	Device Under Test
ECANB	EC Association of Notified Bodies
Ecma	Ecma International
EICTA	European Information, Communications and Consumer Electronics Technology Industry Association
EMCC	Electro Magnetic Compability Conference
EMCAB	Electromagnetic Compatibility Advisory Bulletin
EMF	Electromagnetic Field
EMF	Electromotive Force
ETSI	European Telecommunication Standards Institute
EUANB	European Union Association of Notified Bodies
EUT	Equipment Under Test
FAR	Fully Anechoic Room
FDIS	Final Draft International Standard
GB	guo jia biao zhun（National Standard of China）
GSO	Gulf Cooperation Council Standardization Organization
ICES	Interference-Causing Equipment Standards
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IS	International Standard
ISM	Industrial Scientific and Medical
ITE	Information Technology Equipment
LCL	Longitudinal Conversion Loss
MME	Multimedia Equipment
MOU	Memorandum of Understanding
MP（法）	Magnetic Probe

Abbreviation	Full Name
MRA	Mutual Recognition Agreement/Arrangement
NCB	National Certification Body
NICT	National Institute of Information and Communications Technology
NIST	National Institute of Standards and Technology
NP	New Work Item Proposal
NSA	Normalized Site Attenuation
OFDM	Orthogonal Frequency Division Multiplex
PAS	Publicly Available Specification
PLT	Power Line Telecommunication
R&TTE	Radio & Telecommunications Terminal Equipment
RBW	Resolution Band Width
REF	Reference
RRA	Radio Research Agency
RRT	Round Robin Test
RSM	Reference Site Method
RVC	Reverberation Chamber
SAC	Semi Anechoic Chamber
S/N	Signal to Noise ratio
TF	Task Force
TG	Tracking Generator
UPS	Uninterruptible Power Supply
VBW	Video Band Width
VHF-LISN	Very High Frequency-Line Impedance Stabilization Network
VSWR	Voltage Standing Wave Ratio
WG	Working Group
WP	Working Party

Serial Article – 12

EMC product family standards developed by CISPR

By Masamitsu Tokuda

1. Foreword

CISPR (International Special Committee on Radio Interference) develops the basic standards and common standards on emissions, and the product family standards, Technical Reports (TRs), and Publicly Available Specifications (PASs) on emissions and immunity. This article discusses the product family standards, TRs, and PASs on emissions and immunity.

2. EMC product family standards, TRs, and PASs developed by CISPR

Table 1 lists the product family standards on emissions and immunity in the CISPR standards. Many of the CISPR standards concern emissions as one would expect considering the reason for CISPR's establishment. CISPR 11 (industrial, scientific, and medical equipment), CISPR 12 (vehicles), CISPR 13 (broadcast receivers), CISPR 14-1 (household appliances), CISPR 15 (electrical lighting equipment), CISPR 22 (information technology equipment), and CISPR 32 (multimedia equipment) are product family standards on emissions. Note that CISPR 13 and CISPR 22 were abolished in March 2017 because they were integrated into CISPR 32. CISPR also develops product family standards on immunity including CISPR 14-2 (household appliances), CISPR 20 (broadcast receivers), CISPR 24 (information technology equipment), and CISPR 35 (multimedia equipment).

The TRs include the CISPR TR 18 series which specifies interference from overhead power lines and high voltage equipment and the CISPR TR 30 series which specifies the methods for testing electromagnetic emissions from fluorescent lamps. As for the PASs, there are IEC PAS 62437 on vehicles and IEC PAS 62825 on plasma display panel TVs.

Subcommittees (SCs) create CISPR product family standards. These subcommittees include CIS/B (interference relating to industrial, scientific and medical radio-frequency apparatus, to other (heavy) industrial equipment, to overhead power lines, to high voltage equipment, and to electric traction), CIS/D (electromagnetic disturbances related to electric/electronic equipment on vehicles and internal combustion engine powered devices), CIS/F (interference relating to household appliances tools, lighting equipment and similar apparatus), and CIS/I (electromagnetic compatibility of information technology equipment, multimedia equipment and receivers). Table 1 shows which subcommittees are responsible for respective standards.

3. Japanese version of EMC product family standards developed by CISPR

Major CISPR international standards were discussed at the Information and Communications Council, by the Information Communication Technology Subcommittee, and by the Radio Wave Utilization Environment Subcommittee for the Ministry of Internal Affairs and Communications (MIC). The results have been posted on the MIC website as recommendations. Table 1 lists the CISPR-developed EMC product family standards which

were discussed at and recommended by the Information and Communications Council. The recommendations are referenced in Japanese laws and regulations such as the Radio Act and the Electrical Appliances and Material Safety Act. They are also reflected in self-regulation by the VCCI Council.

In the Radio Act, which was developed by the MIC, one of the conditions (high-frequency equipment other than communication equipment (including induction heating cooktops)) was revised in 2015, reflecting chapters 6 to 10 in the recommendation based on CISPR 11 which covers industrial, scientific, and medical equipment. In addition, the conditions for specifying the types of electrodeless discharge lamps was revised in 2016, reflecting "4.3 Interference voltage" and "4.4 Radiated electromagnetic interferences" in the recommendation based on CISPR 15 which covers lighting equipment.

Table 1　EMC product family standards, TRs, and PASs developed by CISPR, and recommendations for Japan (as of January 2018)

International standard (latest edition: year of publication) [responsible SC]	Name of standard	Recommendation for Japan (year of recommendation) Japanese law/regulation (year of enforcement or revision)	Applicable international standard (edition: year of publication)
CISPR 11 (Ed.6.1: 2016-06) [CIS/B]	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Recommendation by Information and Communications Council in FY2013 (Electromagnetic Environment Division, MIC) (Recommendation: March 2014)	CISPR 11 (Ed.5.1: 2010-05)
		Ordinance of MIC No. 57: Order for Enforcement of the Radio Act - Partial revision of Radio Equipment Regulations[*1] (Promulgation and enforcement: June 2015)	CISPR 11 (Ed.5.1: 2010-05)
		J55011 (2015) (Application: December 2015) (Product Safety Division, Ministry of Economy, Trade and Industry (METI))	CISPR 11 (Ed.5.1: 2010-05)
CISPR TR 28 (Ed.1.0: 1997-04) [CIS/B]	Industrial, scientific and medical equipment (ISM) – Guidelines for emission levels within the bands designated by the ITU	—	—
CISPR TR 18-1 (Ed.3.0: 2017-10) [CIS/B]	Radio interference characteristics of overhead power lines and high voltage equipment - Part 1: Description of phenomena	—	—
CISPR TR 18-2 (Ed.3.0: 2017-10) [CIS/B]	Radio interference characteristics of overhead power lines and high voltage equipment - Part 2: Methods of measurement and procedures for determining limits	—	—
CISPR TR 18-3 (Ed.3.0: 2017-10) [CIS/B]	Radio interference characteristics of overhead power lines and high voltage equipment - Part 3: Code of practice for minimizing the generation of radio noise	—	—

CISPR 12 (Ed.6.1: 2009-03) [CIS/D]	Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of off-board receivers	Recommendation by Telecommunications Technology Council in FY1993 (Electromagnetic Environment Division, MIC) (Recommendation: June 1993)	CISPR 12 (Ed.3: 1990)
		Vehicles are covered by UN ECE Regulation No. 10 (R10) based on the 1958 Agreement.	CISPR12 (Ed.5: 2001+Amd.1: 2005[*2])
CISPR 25 (Ed.4.0: 2016-10) [CIS/D]	Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers	Recommendation by Telecommunications Technology Council in FY1997 (Electromagnetic Environment Division, MIC) (Recommendation: September 1997)	CISPR 25 (Ed.1: 1995)
		Vehicles are covered by UN ECE Regulation No. 10 (R10) based on the 1958 Agreement.	CISPR 25 (Ed.2: 2002+Cor.: 2004[*2])
IEC PAS 62437 (Ed.1.0: 2005-09) [CIS/D]	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices – Limits and methods of measurement – Specifications for active antennas	—	—
CISPR 14-1 (Ed.6.0: 2016-08) [CIS/F]	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission	Recommendation by Information and Communications Council in FY2011 (Electromagnetic Environment Division, MIC) (Recommendation: September 2011)	CISPR 14-1 (Ed.5.1: 2009-02)
		J55014-1 (2015) (Application: December 2015) (Product Safety Division, METI)	CISPR 14-1 (Ed.5.1: 2009-02)
CISPR 14-2 (Ed.2.0: 2015-02) [CIS/F]	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standards	—	—
CISPR 15 (Ed.8.1: 2015-03) [CIS/F]	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	Recommendation by Information and Communications Council in FY2015 (Electromagnetic Environment Division, MIC) (Recommendation: September 2015)	CISPR 15 (Ed.8.0: 2013-05)
		Ordinance of MIC No. 47: Partial revision of Order for Enforcement of the Radio Act[*3] (Promulgation and enforcement: April 2016)	CISPR 15 (Ed.8.0: 2013-05)
		CISPRJ 15:2017 (Revision and enforcement: December 2017) (Product Safety Division, METI)	CISPR 15 (Ed.8.0: 2013-05)

Table 1　EMC product family standards, TRs, and PASs developed by CISPR, and recommendations for Japan (as of January 2018)

International standard (latest edition: year of publication) [responsible SC]	Name of standard	Recommendation for Japan (year of recommendation) / Japanese law/regulation (year of enforcement or revision)	Applicable international standard (edition: year of publication)
CISPR TR 30-1 (Ed.1.0: 2012-08) [CIS/F]	Test method on electromagnetic emissions - Part 1: Electronic control gear for single- and double-capped fluorescent lamps	—	—
CISPR TR 30-2 (Ed.1.0: 2012-08) [CIS/F]	Test method on electromagnetic emissions - Part 2: Electronic control gear for discharge lamps excluding fluorescent lamps	—	—
CISPR 13 (Ed.5.1: 2015-01) [CIS/I]	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics – Limits and methods of measurement	Recommendation by Telecommunications Technology Council in FY2007 (Electromagnetic Environment Division, MIC) (Recommendation: July 2007)	CISPR 13 (Ed.4.2: 2006-03)
		J55013 (2010) (Enforcement: October 2010) (Product Safety Division, METI)	CISPR 13 (Ed.4.2: 2006-03)
CISPR 20 (Ed.6.1: 2013-10) [CIS/I]	Sound and television broadcast receivers and associated equipment - Immunity characteristics – Limits and methods of measurement	—	—
CISPR TR 29 (Ed.1.0: 2004-08) [CIS/I]	Television broadcast receivers and associated equipment - Immunity characteristics – Methods of objective picture assessment	—	—
CISPR 22 (Ed.6.0: 2008-09) [CIS/I]	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	Recommendation by Information and Communications Council in FY2010 (Electromagnetic Environment Division, MIC) (Recommendation: December 2010)	CISPR 22 (Ed.6.0: 2008-09)
		J55022 (2010) (Enforcement: October 2010) (Product Safety Division, METI)	CISPR 22 (Ed.5.2: 2006-03)
CISPR 24 (Ed.2.1: 2015-04) [CIS/I]	Information technology equipment – Immunity characteristics – Limits and methods of measurement	Recommendation by Telecommunications Technology Council in FY1998 (Electromagnetic Environment Division, MIC) (Recommendation: September 1998)	CISPR 24 (Ed.1.0: 1997-09)

CISPR 32 (Ed.2.0: 2015-03) [CIS/I]	EMC of multimedia equipment – Emission requirements	Recommendation by Information and Communications Council in FY2015 (Electromagnetic Environment Division, MIC) (Recommendation: December 2015)	CISPR 32 (Ed.2.0: 2015-03)
		CISPRJ 32:2017 (Revision and enforcement: December 2017) (Product Safety Division, METI)	CISPR 32 (Ed.2.0: 2015-03)
CISPR 35 (Ed.1.0: 2016-08) [CIS/I]	EMC of multimedia equipment – Immunity requirements	Recommendation drafts are currently under consideration.	—
IEC PAS 62825 (Ed.1.0: 2013-01) [CIS/I]	Methods of measurement and limits for radiated disturbances from plasma display panel TVs in the frequency range 150 kHz to 30 MHz	—	—

*1: One condition (high-frequency equipment other than communication equipment (including induction heating cooktops)) was revised, reflecting chapters 6 to 10 in the recommendation.

*2: If the regulation differs from the applicable international standard, specific test methods are included in R10.

*3: The conditions related to electrodeless discharge lamps (Item 8, Paragraph 1, Part 2, Article 46 of the Order for Enforcement of the Radio Act) were revised, reflecting sections 4.3 and 4.4 in the recommendation.

Appendix 12 for the Technical Standards interpretations for the Electrical Appliances and Material Safety Act, which was developed by the Ministry of Economy, Trade and Industry, regulates radio noise based on J Standards (Japanese national standards based on the CISPR standards, which are endorsed by the Ministry of Internal Affairs and Communications). So far, CISPR 11, CISPR 13, CISPR 14-1, CISPR 15, and CISPR 22 were applied or enforced as J55011 (2015), J55013 (2010), J55014-1 (2015), J55015 (2008), and J55022 (2010) respectively. J55015 (2008) shifted to J55015 (2017) and was replaced by CISPRJ 15 (2017) as explained below. In the meantime, the Ministry of Economy, Trade and Industry has been planning to prepare harmonized standards and adopt private standards that are set by private standard-setting bodies (other than JIS) as J Standards for radio noise. CISPRJ 15:2017 which corresponds to J55015 (2017), and CISPRJ 32:2017 which corresponds to J55032 (2017) were enforced as harmonized standards in December 2017.

For CISPR 22, which is an emission standard for information technology equipment, the VCCI Council (general incorporated foundation) created Technical Standards based on the endorsement by the Ministry of Internal Affairs and Communications and implemented self-regulation. However, CISPR 22 was abolished in March 2017. The VCCI Council created the VCCI-CISPR 32 Technical Standard conforming to CISPR 32 Edition 2.0 (emission standard on multimedia equipment) endorsed by the Ministry of Internal Affairs and Communications and started implementation in November 2016[1]. As an immunity standard, only CISPR 24 for information technology equipment is presently recommended for Japan. Related industry associations created

guidelines and standards, and are voluntarily implementing them now. CISPR 20 and CISPR 24 are integrated into CISPR 35. Recommendation drafts for CISPR 35 are currently under consideration.

CISPR 12 (emission standard for vehicles) was discussed at the Telecommunications Technology Council for the Ministry of Internal Affairs and Communications in 1993, and CISPR 25 (emission standard for protecting on-board receivers) was discussed at the same council in 1997. However, vehicles are internationally regulated by UN ECE Regulation No. 10 (R10). If the regulation differs from applicable international standards, specific test methods are described in R10.

References (only those in English):

1) Rules of VCCI https://www.vcci.jp/member/regulation/index.html

Masamitsu Tokuda

1967 Graduated from Electronics Engineering Department of Hokkaido University
1969 Joined NTT, assigned to the Electrical Communications Laboratories
1987 Leader of EMC Study Group, NTT Telecommunication Networks Laboratories
1996 Professor of Electric Engineering Department, Kyushu Institute of Technology
2001 Professor of Electronic Communication Department, Musashi Engineering University
2010 Professor emeritus of Tokyo City University, visiting co-researcher of the Graduate School of Frontier Sciences, University of Tokyo

Major prizes received

1986 Merit award – IEICE (on the design theory and evaluation method for optical fiber cables)
1997 Information communication merit award by MPT (on EMC technology development)
2003 Industrial standard merit award by the minister of METI
2004 IEICE fellow
2007 Promoted to IEEE fellow

Report on the 35th REDCA General Assembly Meeting

Steering Committee

Date and time:	Wednesday, November 8, 2017, from 13: 00 to 17: 00, and Thursday, 9, from 9: 00 to 17: 00
Location:	Holiday Inn Porto Gaia, Porto, Portugal
Chairman:	Mr. Nick Hooper
Secretary:	Mr. Jan Coenraads
Number of participant:	100 members and observers from Europe, the United States of America, Canada, China, Korea, and Japan
VCCI participants:	Shinji Mine (steering committee chairman) (NEC Platforms, Ltd.) Akira Oda (executive director of the VCCI Council) Naoyuki Tsurumi (secretary general of the VCCI Council)

Reference: REDCA membership is about 240 organizations
(both full members and observers, as of November 8, 2017)
Full members: 229 organizations (including 15 Japanese organizations)
New full members (approved in this meeting): 24 organizations (including 2 Japanese organizations)
Withdrawing full members (approved in this meeting): 9 organizations (no Japanese organizations)
Observers: 8 organizations (including 2 Japanese organizations [Ministry of Internal Affairs and Communications, etc.])

1. Introduction

The REDCA (The Radio Equipment Directive Compliance Association) is organized based on the requirements of RE Directives (2014/53/EU). It holds general meetings twice a year for members concerned with the regulations and technical standards in the European Economic Area (EEA). These meetings also address the suitability of wireless devices in countries that have a mutual recognition agreement with the EU, such as the USA, Canada, Japan, New Zealand, and Australia.

The VCCI is a REDCA member and has participated in the general meetings since 2011 with the objective of understanding the latest trends in the European regulatory and market surveillance conditions. The information gained in these meetings is passed on to the VCCI members.

2. Summary the General Assembly Meeting

A report was given on new full members and on members having withdrawn since the last Cobham meeting. Also, 17 more organizations were approved for membership at the meeting. In addition, administrative reports on items such as accounting were made.

(1) REDCA management report, changes in the membership list, and administrative report

The minutes of the last Warsaw meeting, new full members of 24 organizations, and withdrawing members of 9 organizations were reported and approved.

① The REDCA officer appointment as of January 1, 2018 was explained. A proposal to change the chairman from Mr. Nick Hooper to Mr. Pieter de Beer, and the secretary from Mr. Jan Coenraads to Mr. Nick Hooper was approved. The term of officers is two years.

② Mr. Dave Imeson, who is in charge of accounting, reported that the financial situation of the REDCA is sound.

(2) Outline of discussion on R&TTE/RED and TCAM

① Report from the EU Committee (Mr. Pier Francesco Sammartino)
The EU Committee has been asked to clarify issues involved in application of RE Directives. The expert group is discussing the delegated acts concerning software uploading to hardware.

② Report from the TCAM (Telecommunication Conformity Assessment and Market Surveillance Committee) meeting (June 2017)
The REDCA chairman summarized TCAM WG11 (held from June 1 to 2, 2017).

3. Discussion on TGN (Technical guidance note)

① Descriptions overlapping with the RED Guide should be removed from the draft version of the TGN. In addition, there was a discussion about whether the frequency range for product evaluation and transmission intermodulation should be covered by the TGN. Further review of the contents will be necessary.

4. Main Subjects Discussed among Members

① Report on the results of activities of important working groups

- Working group developing the TGN on vehicles:

The first edition of the draft was distributed to the working group members, and now suggestions for improvement are being reflected in the second edition. Some issues were raised. For example, when a wireless device is embedded in a vehicle, another approval scheme rather than RE Directives may apply. Therefore, the scope of the RE Directives might have to be made clearer. The EU committee commented as follows: "The RE Directives apply to products defined by the

RE Directives. The RED Guide is not law but guidance. If there is any problem, it should be forwarded to the TCAM committee and the contents of the guide should be reviewed."

- Working group for devices with multiple transmitters (receivers) in their enclosure:

The TGN for devices which contain multiple wireless modules, such as laptop PCs and mobile phones, is being created. EN 303 446-1 (for combined and/or integrated radio and non-radio equipment; 2017.3) is helpful.

5. Reports from Other Organizations

① Summary of the TCB meeting in the United States (October 2017) and revisions of the FCC rules

Mr. Bill Graff, the US TCB President, explained the current state of North American radio regulations.

② Japanese regulation information

Mr. Fukatsu, the assistant manager of the radio environment section of the MIC, explained the latest regulation information pertaining to Japanese radio equipment.

From April 2018, a test report, photograph of EUT, and a copy of certification will be newly required for application for technical regulations conformity certification. In addition, "MIC MRA Workshop 2018" to be held in Japan in March 2018 was introduced. Mr. Jan Coenraads will give a presentation.

③ Latest information on Canadian regulations

Mr. Michael Derby explained changes in Canadian laboratory accreditation.

6. Next Meeting

The next meeting will be held in Copenhagen in May 2018.

A workshop on risk assessment, SAR, and related items will be held simultaneously with the meeting.

Impressions

Under the current circumstances where the development of harmonized standards is insufficient, there is no choice but to leave the procedure for complying with the RE Directive to the discretion of the Notified Bodies (NB). Therefore, the NB has a heavy responsibility. In the meeting, no decisions were reached on any subjects, but progress was confirmed on each task and there was active discussion between members. In addition, there was also a struggle between requests to establish guidance and the discretion of the NB in the situation where harmonized standards were insufficient. It is clear that there are still many problems to be solved.

The VCCI will continue to participate in the REDCA, strengthen cooperative relationship with associated organizations, deepen mutual friendships, and provide feedback about the latest trends of European regulations which can be obtained from those organizations.

Lastly, Mr. Jan Coenraads, who has been devoted to the establishment of R&TTE CA, the predecessor of the REDCA, and the development of the REDCA, retired from the position of secretary general as of the end of 2017.

He also made a significant contribution to the development of the VCCI. We appreciate his activities and efforts over the years.

From the left, Secretary general Mr. Tsurumi,
Secretary Mr. Jan Coenraads,
Executive director Mr. Oda,
Chairman Mr. Nick Hooper,
Steering committee chairman Mr. Mine

REDCA meeting chairpersons

Scene of the REDCA meeting

"EMC Workshop" VCCI Seminar Report

Steering Committee

Host: Kagawa EMC Technology Study Group

Co-host: VCCI Council

Sponsor: Kagawa Prefecture

"EMC Workshop", a VCCI seminar provided by the Steering Committee was held at the Kagawa Industrial Intelligence Center.

1. Event details

Date and time: Friday, November 17, 2017 13:30 to 17: 00

Location: Training room on the second floor in the Kagawa Industrial Intelligence Center

Participants: 52

Members: Minoru Hirahara, the chairman of the Technical Subcommittee (FUJITSU ADVANCED TECHNOLOGIES LIMITED)

Minoru Hirata, the chairman of the Education Subcommittee (Hitachi, Ltd.)

Masanori Yamaguchi, a member of the Technical Subcommittee and the Education Subcommittee

Akira Oda (executive director of the VCCI Council)

2. Program

Time	Theme	Presenter
13:30 to 13:35	Opening address	Public interest incorporated foundation Kagawa Industry Support Foundation Director Yoshihiro Otsu
13:35 to 14:15	(1) Introduction of VCCI activities and future trends in regulations, introduction of new regulations, and introduction of regulations in the world - Membership system and self-regulation, an overview of VCCI activities - Future EMI regulations (Electrical Appliances and Materials Safety Act, multimedia standards) - About new regulations - Introduction of regulations about electromagnetic interference in the world	VCCI Council Executive director Akira Oda

Time	Theme	Presenter
14:15 to 15:00	(2) Precautions on measurement based on the new Technical Requirements issued by the VCCI Council and future efforts - VCCI CISPR32: Changes in the new Technical Requirements - Changes in the interpretation of the new Rules - Future trends in standards	VCCI Council Chairman of the Technical Subcommittee Minoru Hirahara
15:15 to 15:55	(3) EMI education training and notes on measurement - VCCI training project - Overview of the basic course - Report of conformity verification - Test report	VCCI Council Chairman of the Education Subcommittee Minoru Hirata
15:55 to 16:45	(4) Easy method for extracting EMI defects	VCCI Council Member of the Technical/Education Subcommittee Masanori Yamaguchi
16:45 to 17:00	Question and answer session	Presenters

3. Impressions

In Kagawa where this event was held, the Kagawa Industry Support Foundation has established the "Kagawa EMC Technology Study Group" and supports advancement of technologies of companies and forays into new fields. This foundation works under the leadership of Next Kagawa, which has EMC-related facilities, and strives to enhance the EMC countermeasure technologies of companies in Kagawa and to improve research and development power.

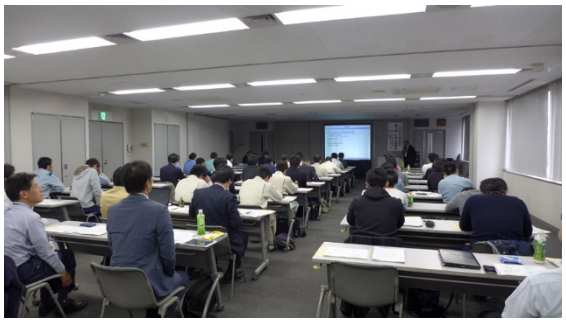
In this event, we asked mainly the members of "Kagawa EMC Technology Study Group" to attend in cooperation with the Kagawa Industry Support Foundation, and explained regulations related to electromagnetic interference with a focus on the new Rules and Interpretations provided by the council, precautions on measurement of such interference, and an easy method for extracting EMI defects.

Most of the participants were not the members of the council, but we got their opinion that they could understand the actual EMI countermeasures well, and that the introduction of world standards and the easy method for EMI extraction were very helpful to them.

Since 2006, the VCCI Council has presented the activities of the council and held seminars on EMC technologies in industrial centers or the like in various prefectures. It will continue to hold such seminars based on prefectural needs.

Lastly, we would like to take this opportunity to express our appreciation to everyone in the Kagawa Industry Support Foundation for their cooperation in this event.


かがわEMC技術研究会
第5回 EMC講習会
主催 かがわEMC技術研究会
共催 一般財団法人 VCCI協会
後援 香川県



Report on VCCI International Forum 2017

International Relations Subcommittee

The VCCI provides its members with information about the situations in countries or regions that regulate EMC or are considering doing so. The International Forum, which is held annually, provides a convenient venue for timely dissemination of the latest information to the members. VCCI International Forum 2017 was held on 6 October, 2017. As in the previous year, it was held at CEATEC JAPAN.

In this international forum, guest speakers from the EU, Taiwan, and GCC (Gulf Cooperation Council) gave presentations on trends in regulations in each country and region.

[Invited countries, regions, and presentation themes]

- EU: EU trends, European Commission, Department for growth (DG GROW)
- Taiwan: Story behind adoption of CISPR 32 for Taiwan EMI request
- GCC: GSO (GCC Standardization Organization)
  Regulation system, especially focused on regulations on low voltage and EMC technologies

The presentations fully utilized the scheduled time and provided information useful for participants in the forum. After each presentation, a Q&A session enabled interaction between the guest speaker and the participants. The Q&A sessions let the participants get answers to their questions directly from the guest speakers, resulting in a deeper understanding of the information and issues. The guest speakers and program were as follows.

The VCCI International Relations Subcommittee is planning to hold an international forum and will select a theme for the next forum based on the needs of the members to encourage more participation. We hope members will contact the VCCI secretariat if there is a country, region, or theme about which they want someone to make a presentation.

VCCI International Forum 2017 Program

Time	Minutes	Item
13:00 to 13:05	5 min	"VCCI Update" Mr. Keiichi Kawakami, VCCI Council Mr. Akira Oda, VCCI Council
13:05 to 13:55	50 min	"EU updates EUROPEAN COMMISSION DG GROW" Mr. Gwenole Cozigou Director Industrial Transformation and Advanced Value Chains DG for Internal Market, Industry, Entrepreneurship and SME's, European Commission, EU
13:55 to 14:45	50 min	"How to Adopt CISPR 32 into Taiwan EMI Requirement" Mr. Lin, Liang-Yang Technical specialist EMC section of 6th division Bureau of Standards, Metrology and Inspections (BSMI), Taiwan
14:45 to 15:10	25 min	Coffee break
15:10 to 16:00	50 min	"GSO regulatory system Particularly focus on LV and EMC Technical regulations" His Excellency Mr. Nabil A. Molla Secretary General Mr. Basem H. Salameh Conformity Specialist, Conformity Department GCC Standardization Organization (GSO)
16:00 to 16:50	50 min	Q&A Hosted by Mr. Yukio Uchida (Chairman of VCCI IRSC)
16:50 to 17:05	15 min	Appreciation to the guests and wrap up

About 70 people including overseas members and members of domestic manufacturers and testing laboratories participated in a very successful forum.

Overview of Q&A

Here we provide the contents of Q&A for the VCCI members as a reference. Please make final decisions at your company.

◆ Q&A on "EU trend, European Commission, Department for growth (DG GROW)" (speaker: Mr. Gwenole Cozigou)

Q1: The latest harmonized standard list of the EMC Directive was issued on August 12, 2016. When will be the next issuance?

A1: It is difficult to say a specific date. That will depend on the actions of the organization for standardization.

◆ Q&A on "Story behind adoption of CISPR 32 for Taiwan EMI request" (speaker: Mr. Lin, Liang-Yang)

Q1: Is it necessary to retest and reacquire a certificate and declaration based on the new standards for products that got a certificate or declaration of conformity with the old standards?

A1: Usually, reacquisition of a certificate with the new standards is required.

Q2: The CNS standards corresponding to IEC 62368 were promulgated. In the transition period, should I perform the procedure at the next renewal of the 3rd or 6th year? Or, should additional tests be done before that period?

A2: Such matters are discussed at monthly technical meetings. Details will be discussed at the next meeting.

Q3: When there are RoHS requirements, can the declarations of conformity with EMC and RoHS be combined for products categorized as DoC? Is it acceptable to issue the declarations of conformity collectively at the time of the application of RoHS?

A3: I think that both EMC and RoHs should be declared at the time of renewal. Two declarations can be combined into one. You can put two declarations together in one page.

◆ Q&A on "Regulation system, especially focused on regulations on low voltage and EMC technologies" (speaker: His Excellency Mr. Nabil A. Molla, Mr. Basem H. Salameh)

Q1: When will List 1 be issued? Which fields are devices to be targeted contained in?

A1: There is no plan to issue List 1, and the implementation of List 2 will take precedence. The implementation may start from around 2019.

Q2: Do we need to comply with regulations of each country before GSO regulations are enforced?

A2: If regulations other than EMC and safety exist in countries (such as labeling requirements for efficiency), you need to comply with the domestic regulations of the export destination. For the EMC and safety requirements, no domestic restrictions are imposed separately because seven countries have adopted GCTS.

Q3: Are regulations on medical devices going to be issued by the end of 2018? Does the regulation target assume the same form as Europe? Or, is the target item list yet to be created?

A3: We are currently considering regulations based on the draft of the European medical device directive. When the final draft is made, the target products will be examined. When regulations are issued, a transition period (experimental period) of six months to a year and a half will be set. After that period, regulations will be forcibly applied.

Q4: Does the safety information need to be on paper? Is it also acceptable to pack a CD or electronic medium with products?

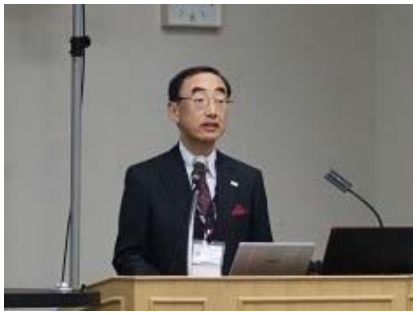
A4: Any format, such as paper, CD, or diagram may be used, but the safety information needs to be provided with products.

Q5: We are exporting to Saudi Arabia using the Saudi Conformity Assessment Program (SCAP). Will SCAP be abolished when this new system is introduced?

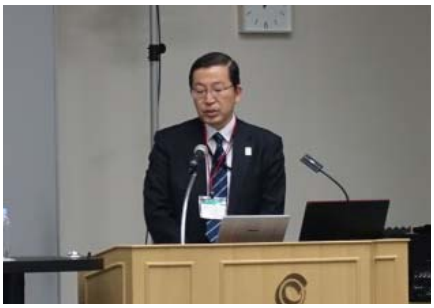
A5: It depends on products. For products in List 2, the GSO system will replace the other systems. For products not in List 2, you will need to follow the regulations in each country.

Q6: Will product category in the List 2 increase? Is there a possibility that a number of HS code will increase amoung prodcts already in the List 2?

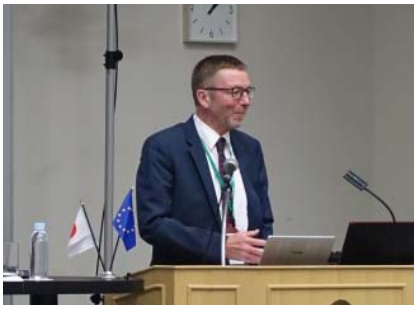
A6: Implementation will be in stages, so we think that products in the same category (products in List 2) will increase. In the first quarter of 2018, products related to new HS code will be added. When a product is added, a transition period of six months to a year will be set. After that period, enforcement will start.



VCCI representative director Mr. Kawakami

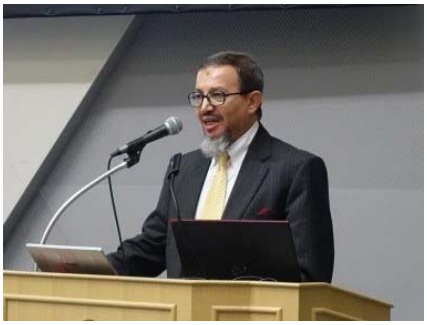


VCCI executive director Mr. Oda



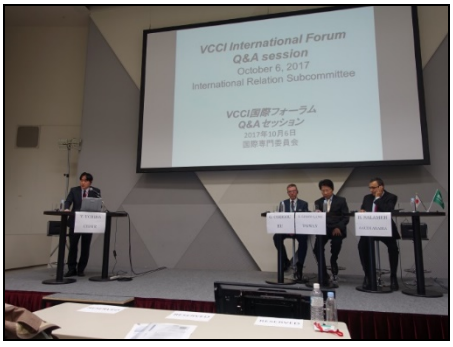
Mr. Gwenole Cozigou

Mr. Lin, Liang-Yang



His Excellency Mr. Nabil A. Molla

Mr. Basem H. Salameh



Q&A Session

VCCI Council　About Public Advertisement

Communication Subcommittee

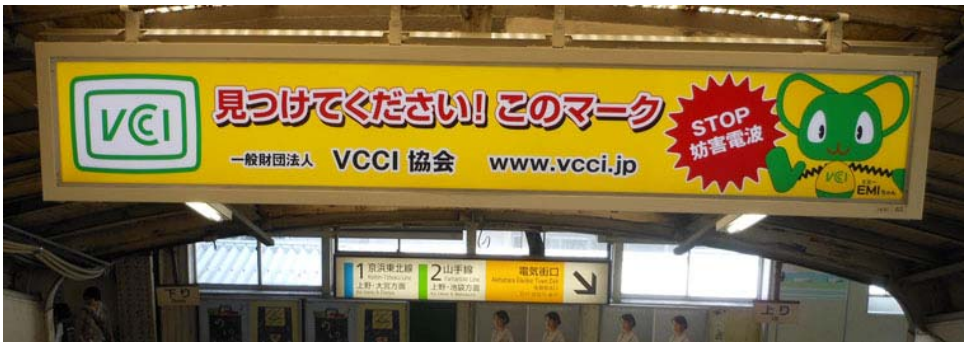
On December 1, 2017, we placed the VCCI Council's new illuminated advertisement in the passageway from the JR Osaka station's Central gate to the Daimaru Department.

We hope it will be seen by those who travel to the Kansai region for business as well as those from member companies and organizations in the Kansai region.

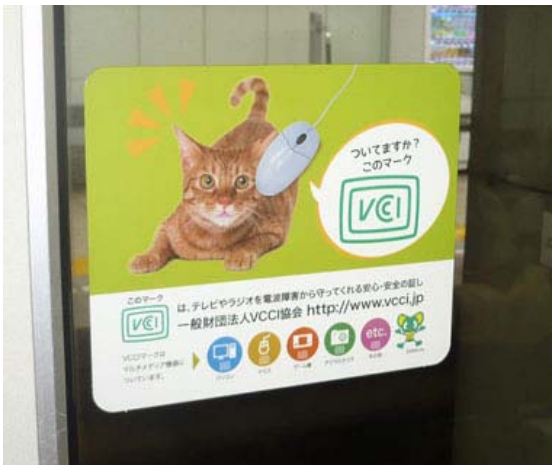
Currently, the VCCI Council has placed advertisements such as a signboard in the JR Akihabara station, stickers on door windows of the Hibiya line trains, and a VCCI introduction video played in the television sales floors of Bic Camera.

The Communication Subcommittee will continue to promote public relations activities to help members, non-members, and general consumers understand the activities of the VCCI Council. We appreciate your understanding and cooperation.

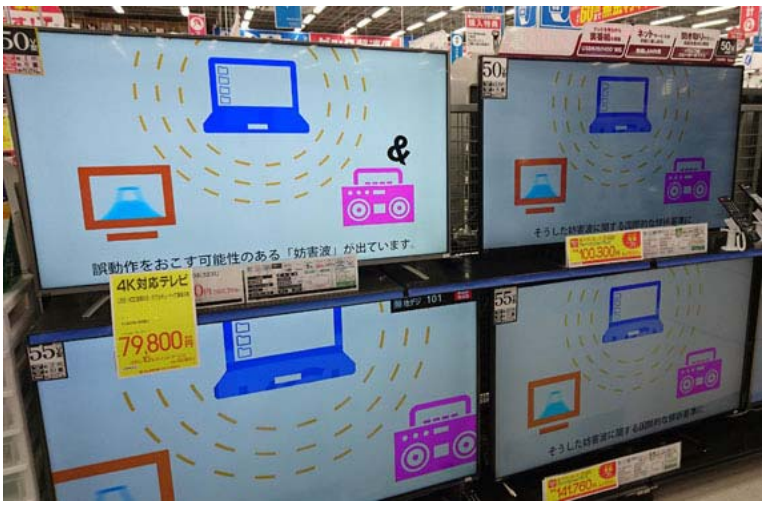
JR Osaka station



JR Akihabara station



Sticker on the door window of Hibiya line train



TV sales floor of Bic Camera

Status on FY2017 Market Sampling Test Operations

Market Sampling Test Subcommittee

As of January 31, 2018

Planned number of Market Sampling Tests	Loan-based	45	100
	Purchase-based	55	

Sampling test Grand total	Selected	Cancelled (unrealized shipment, etc.)	Owner's consent pending	Testable samples	Test completed	Judgment awaited	Judgment			
							Passed	Failed - tentative		
								Finally passed	Finally failed	Pending
Grand total	108	8	1	99	83	6	71	2	2	2
Previous month grand total	83	4	10	69	48	0	42	0	0	5
Loan-based testing total	53	8	0	45	36	2	31	1	1	1
1st Quarter	12	3	0	9	7	0	6	0	1	0
2nd Quarter	12	2	0	10	9	0	8	1	0	0
3rd Quarter	22	3	0	19	18	0	17	0	0	1
4th Quarter	7	0	0	7	2	2	0	0	0	0
Purchase-based testing total	55	0	1	54	47	4	40	1	1	1
1st Quarter	20	0	0	20	20	0	18	1	1	0
2nd Quarter	6	0	0	6	6	0	5	0	0	1
3rd Quarter	19	0	1	18	15	1	14	0	0	0
4th Quarter	10	0	0	10	6	3	3	0	0	0

Final Result

Passed	Failed	Pending
73	2	2

.

Document inspection	Selected	Cancelled (withdrawal, etc.)	Owner's consent pending	Inspectable samples	Pre-check completed	Judgment awaited	Judgment completed	Judgment	
								Cleared	Problems identified
	41	1	0	40	40	0	40	38	2

Report from the Secretariat

● List of Members (November 2017 ～ January 2018)

New Members

Membership	Member No.	Company Name	Country
Regular	3849	KANAI ELECTRONIC APPLIANCE Co., Ltd.	JAPAN
Regular	3854	SHINKA INFORMATION SYSTEM CO., LTD.	JAPAN
Regular	3856	ECO LIFE ENGINEERING CO., LTD.	JAPAN
Regular	3864	Southco Japan Limited	JAPAN
Regular	3866	Mobile Techno Corp.	JAPAN
Regular	3870	NEC Communication Systems, Ltd.	JAPAN
Supporting	3862	Oita Industrial Research Institute	JAPAN
Regular	3830	Mionix AB	SWEDEN
Regular	3846	Winner Wave Limited	CHINESE TAIPEI
Regular	3850	Manufacturing Resources International	USA
Regular	3851	PERVASIVE DISPLAYS INC.	CHINESE TAIPEI
Regular	3852	WAWGD, Inc. d.b.a. Foresight Sports	USA
Regular	3853	Acrox Technologies Co., Ltd	CHINESE TAIPEI
Regular	3855	Nebbiolo Technologies Inc.	USA
Regular	3857	Ponte Technologies Co., Ltd.	CHINA
Regular	3858	Applied Medical Resources Corporation	USA
Regular	3860	SPOTLIGHT CARRY CORP. LIMITED.	HONG KONG
Regular	3861	COMPUCASE ENTERPRISE CO., LTD.	CHINESE TAIPEI
Regular	3865	NETWORK INTEGRITY SYSTEMS	USA
Regular	3867	Tempered Networks, Inc	USA
Regular	3868	DUPLICALL CO., LIMITED	CHINA
Regular	3869	Reach Robotics Ltd	U.K.
Supporting	3859	BTL Inc.	CHINA
Supporting	3863	Shenzhen Huaxia Testing Technology Co., Ltd	CHINA

Withdrawal Members

Membership	Member No.	Company Name	Country
Regular	2816	King Tech Corp.	JAPAN
Regular	2969	Eye-Fi, Inc.	USA
Supporting	935	VDE Testing and Certification Institute	GERMANY

Change of Company Name

Membership	Member No.	Company Name	Country	Former Company Name
Regular	2085	BARCO, INC.	USA	ADVAN INT'L CORP.
Regular	2766	Brocade Communications Systems LLC	USA	Brocade Communications Systems Inc.
Regular	3640	Nokia of America Corporation	USA	Alcatel-Lucent IP R&T
Regular	3773	SonicWall Inc.	USA	Sonicwall, Inc.
Regular	3798	NextDrive Co., LTD	CHINESE TAIPEI	LINKNEXT TECHNOLOGIES CO., LTD.
Supporting	2213	Bureau Veritas Consumer Products Services Germany GmbH	GERMANY	Bureau Veritas Consumer Products Services

Request : In case of any change in your company name, please kindly advise VCCI.
Use the "Notice of Change" at VCCI Website.

● VCCI Events Calendar

FY2018

April ・Exhibition at TECHNO FRONTIER	**May** ・Measurement engineer course "The basic technique of EMI measurement"	**June** ・Exhibition at COMPUTEX TAIPEI ・Measurement engineer course "The basic of electromagnetic waves, EMI measurement technique below 1 GHz" ・Release VCCI Dayori No.129
July ・VCCI Business Reporting Meeting ・Release Annual Report	**August**	**September** ・Release VCCI Dayori No.130
October ・Exhibition at CEATEC JAPAN ・VCCI International Forum ・Measurement engineer course "The basic technique of EMI measurement"	**November** ・Measurement engineer course "The basic of electromagnetic waves, EMI measurement technique below 1 GHz" ・Measurement engineer course "The EMI measurement technique above 1 GHz"	**December** ・Measurement engineer course "The level up of EMI measurement technique" ・Release VCCI Dayori No.131
January ・VCCI Technical Symposium	**February** ・Measurement engineer course "The uncertainty of EMI Measurement Instrumentation"	**March** ・Release VCCI Dayori No.132

● State of Conformance Report Submitted（V-2+VCCI 32-1）

（October 2017 ～ December 2017）

					October 2017			November 2017			December 2017		
			Class A	Class B	Class A	Class B	Total	Class A	Class B	Total	Class A	Class B	Total
Computer	Server	Super Computer, Server, etc.	A 2	a 2	21	0	21	32	1	33	14	6	20
	Tabletop type	WS, Desk-top PCs, etc.	B 2	b 2	0	6	6	1	22	23	2	16	18
	Portable type	Note PCs, Tablet PCs, etc.	C 2	c 2	0	21	21	0	35	35	0	45	45
	Others	Office Computer, Wearable computers, etc.	E 2	e 2	5	5	10	1	1	2	6	2	8
Peripherals/Terminals Equipment	Storage Device	HDD, SSD, USB Memory, Media drives, etc. Disk drives, NAS, DAS, SAN, etc.	G 2	g 2	10	10	20	9	19	28	12	37	49
	Printer	Printer (Compound equipment included), etc.	H 2	h 2	4	3	7	7	15	22	5	6	11
	Display	CRT displays, Monitor, projector, etc.	J 2	j 2	20	34	54	13	43	56	4	36	40
	Input/Output Device （excluding Auxiliary Memory, Printer, Display）	Image scanners, OCR, etc.	M 2	m 2	4	6	10	2	12	14	8	10	18
	General Purpose Terminal	Display control terminals, etc.	N 2	n 2	0	3	3	0	1	1	0	0	0
	Exclusive Terminal	POS, Terminal for Financial and Insurance use, etc.	Q 2	q 2	8	1	9	9	3	12	6	0	6
	Other Peripherals Equipment	Others (PCI cards, Graphics cards, Mouse, Keyboard, etc.)	R 2	r 2	4	36	40	7	45	52	13	20	33
Audio visual equipment	Broadcast receivers	Television, Radio, Tuner, Video recorder, Set-top Boxes, etc.	K 2	k 2	0	0	0	0	0	0	0	2	2
	Audio equipment	Speaker, Amplifier, IC recorder, MP3 player, Headsets, etc.	L 2	l 2	0	6	6	0	6	6	4	3	7
	Video/Camera equipment	Digital video cameras, Web cameras, Network cameras, Video players, Photo frames, Digital-camera, etc.	I 2	i 2	10	6	16	6	8	14	6	12	18
	Others	Other Audio visual equipment	P 2	p 2	1	0	1	2	2	4	3	2	5
Copying Machine/ Compound equipment	-	Copying Machine/Compound equipment, etc.	S 2	s 2	9	0	9	11	5	16	2	0	2
Communications Equipment	Terminal equipment	Mobilephone, Smartphone, PHS telephones	T 2	t 2	0	4	4	0	3	3	0	3	3
		Telephone Equipment (PBX, FAX, Key Telephone System, etc.), Cordless telephones	U 2	u 2	1	0	1	3	1	4	2	2	4
	Network related equipment	Network Channel Terminating Equipment (Modem, Digital Transmission Equipment, DSU, TA, etc.)	V 2	v 2	2	10	12	20	1	21	2	2	4
		LAN Equipment (Rooter, HUB, etc.), Switching-node, etc.	W 2	w 2	54	14	68	51	11	62	61	17	78
	Others	Other Communications Equipment	X 2	x 2	6	12	18	18	10	28	35	11	46
Entertainment and educational equipment	Electronic stationeries	Electronic dictionaries, Electronic book readers, etc.	D 2	d 2	0	0	0	0	2	2	0	2	2
	Electronic toys	Game machines, Game pads, Toy drones, etc.	Y 2	y 2	0	2	2	0	1	1	0	1	1
	Lighting control equipment for entertainment	Lighting control equipment for entertainment	Z 2	z 2	0	0	0	0	0	0	0	0	0
	Others	Others (Navigator, etc.)	F 2	f 2	0	0	0	0	3	3	0	0	0
Others			O 2	o 2	6	6	12	9	5	14	6	8	14
Total					165	185	350	201	255	456	191	243	434

● State of Conformance Report Submitted（VCCI 32-1）

（October 2017 ～ December 2017）

					October 2017			November 2017			December 2017		
			Class A	Class B	Class A	Class B	Total	Class A	Class B	Total	Class A	Class B	Total
Computer	Server	Super Computer, Server, etc.	A 2	a 2	14	0	14	22	1	23	10	4	14
	Tabletop type	WS, Desk-top PCs, etc.	B 2	b 2	0	3	3	1	14	15	1	13	14
	Portable type	Note PCs, Tablet PCs, etc.	C 2	c 2	0	14	14	0	28	28	0	35	35
	Others	Office Computer, Wearable computers, etc.	E 2	e 2	2	4	6	1	0	1	5	2	7
Peripherals/Terminals Equipment	Storage Device	HDD, SSD, USB Memory, Media drives, etc. Disk drives, NAS, DAS, SAN, etc.	G 2	g 2	2	6	8	3	10	13	8	27	35
	Printer	Printer (Compound equipment included), etc.	H 2	h 2	0	3	3	4	4	8	1	2	3
	Display	CRT displays, Monitor, projector, etc.	J 2	j 2	2	4	6	6	15	21	2	8	10
	Input/Output Device （excluding Auxiliary Memory, Printer, Display）	Image scanners, OCR, etc.	M 2	m 2	2	3	5	1	9	10	8	9	17
	General Purpose Terminal	Display control terminals, etc.	N 2	n 2	0	0	0	0	0	0	0	0	0
	Exclusive Terminal	POS, Terminal for Financial and Insurance use, etc.	Q 2	q 2	4	0	4	3	3	6	2	0	2
	Other Peripherals Equipment	Others (PCI cards, Graphics cards, Mouse, Keyboard, etc.)	R 2	r 2	2	20	22	4	38	42	6	14	20
Audio visual equipment	Broadcast receivers	Television, Radio, Tuner, Video recorder, Set-top Boxes, etc.	K 2	k 2	0	0	0	0	0	0	0	1	1
	Audio equipment	Speaker, Amplifier, IC recorder, MP3 player, Headsets, etc.	L 2	l 2	0	2	2	0	5	5	0	3	3
	Video/Camera equipment	Digital video cameras, Web cameras, Network cameras, Video players, Photo frames, Digital-camera, etc.	I 2	i 2	7	4	11	1	2	3	1	4	5
	Others	Other Audio visual equipment	P 2	p 2	1	0	1	1	0	1	3	2	5
Copying Machine/ Compound equipment	-	Copying Machine/Compound equipment, etc.	S 2	s 2	2	0	2	0	1	1	1	0	1
Communications Equipment	Terminal equipment	Mobilephone, Smartphone, PHS telephones	T 2	t 2	0	4	4	0	3	3	0	3	3
		Telephone Equipment (PBX, FAX, Key Telephone System, etc.), Cordless telephones	U 2	u 2	0	0	0	1	0	1	2	2	4
	Network related equipment	Network Channel Terminating Equipment (Modem, Digital Transmission Equipment, DSU, TA, etc.)	V 2	v 2	0	1	1	5	1	6	1	1	2
		LAN Equipment (Rooter, HUB, etc.), Switching-node, etc.	W 2	w 2	38	6	44	27	3	30	29	6	35
	Others	Other Communications Equipment	X 2	x 2	5	8	13	12	4	16	19	5	24
Entertainment and educational equipment	Electronic stationeries	Electronic dictionaries, Electronic book readers, etc.	D 2	d 2	0	0	0	0	0	0	0	0	0
	Electronic toys	Game machines, Game pads, Toy drones, etc.	Y 2	y 2	0	2	2	0	1	1	0	1	1
	Lighting control equipment for entertainment	Lighting control equipment for entertainment	Z 2	z 2	0	0	0	0	0	0	0	0	0
	Others	Others (Navigator, etc.)	F 2	f 2	0	0	0	0	3	3	0	0	0
Others			O 2	o 2	4	4	8	2	2	4	5	5	10
Total					85	88	173	94	147	241	104	147	251

● State of Registration of Measurement Facilities (Newly registered or renewed)

The following table indicates the status on registration of measuring facilities in the most recent three months.

Facilities listed here are only those made open by registering members in principle. Members with those facilities whose valid period expired are kindly advised to contact VCCI to inform of the status they are in. Status to choose from are, renewal application being filed, new application being filed, waiting for the next issue to carry, or terminating the registration (all facilities are posted in the Web site).

Facilities in Japan are listed in Japanese.

List of newly registered or renewed facilities (November 2017 – January 2018)

R: Field strength measuring facility C: Mains Port Conducted interference measuring facility T: Communication Port Conducted interference measuring facility G: Radiated EMI measurement facilities above 1GHz

Company name	Equipment name	3 m	10 m	30 m	Dark 3m	Dark 10m	Registration number	Effective date	Location	Contact to:
BTL Inc.	CB18	-	-	-	-	-	G-20028	2020/11/19	No.18,Ln.171,Sec.2,Jiuzong Rd.,Neihu Dist.,Taipei	886-2-2646-5426
BTL Inc.	CB19	-	-	-	-	-	G-20029	2020/11/19	No.18,Ln.171,Sec.2,Jiuzong Rd.,Neihu Dist.,Taipei	886-2-2646-5426
BTL Inc.	C03	-	-	-	-	-	C-20022	2020/11/19	No.18,Ln.171,Sec.2,Jiuzong Rd.,Neihu Dist.,Taipei	886-2-2646-5426
ESTECH Co.,Ltd.	Conducted disturbance mains	-	-	-	-	-	C-20021	2020/11/19	140-16,Eongmalli-ro,Majang-myeon, Icheon-si, Gyeonggi-do, 17382 REPUBLIC OF KOREA	82-31-631-8037
ESTECH Co.,Ltd.	3 m Semi-anechoic chamber	-	-	-	-	-	G-20033	2020/11/19	140-16,Eongmalli-ro,Majang-myeon, Icheon-si, Gyeonggi-do, 17382 REPUBLIC OF KOREA	82-31-631-8037
Global EMC Standard Tech. Corp.	A9	-	-	-	-	-	T-20024	2020/11/19	No.3, Baodoucuokeng, Linkou Dist., New Taipei City 244, Taiwan ,R.O.C.	886-2-26035321 #391
Shenzhen BALUN Technology Co., Ltd.	Shenzhen BALUN Technology Co., Ltd.	-	○	-	-	-	R-4487	2020/12/10	Block B, FL1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdon Province, P.R.China 518055	86-755-66850100Ext8113
Shenzhen BALUN Technology Co., Ltd.	Shenzhen BALUN Technology Co., Ltd.	-	-	-	-	-	C-4956	2020/12/10	Block B, FL1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdon Province, P.R.China 518055	86-755-66850100Ext8113
Shenzhen BALUN Technology Co., Ltd.	Shenzhen BALUN Technology Co., Ltd.	-	-	-	-	-	T-2428	2020/12/10	Block B, FL1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdon Province, P.R.China 518055	86-755-66850100Ext8113
SGS-CSTC Standards Technical Services Co., Ltd.	3m Semi-Anechonic Chamber above 1GHz	-	-	-	-	-	G-20026	2020/12/10	No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China	86 0755 2532 8629
BTL Inc.	CB16	-	-	-	-	-	G-20030	2020/12/10	No.68-1, Ln. 169, Sec. 2,Datong Rd., Xizhi Dist., New Taipei City, Taiwan (R.O.C)	886 26418198
BTL Inc.	CB15	-	-	-	-	-	G-20031	2020/12/10	No.68-1, Ln. 169, Sec. 2,Datong Rd., Xizhi Dist., New Taipei City, Taiwan (R.O.C)	886 26418198

Company name	Equipment name	3 m	10 m	30 m	Dark 3m	Dark 10m	Registration number	Effective date	Location	Contact to:
BTL Inc.	CB15	-	-	-	○	-	R-20020	2020/12/10	No.68-1, Ln. 169, Sec. 2,Datong Rd., Xizhi Dist., New Taipei City, Taiwan (R.O.C)	886-2-26418198
Shenzhen BALUN Technology Co., Ltd.	Shenzhen BALUN Technology Co., Ltd.	-	-	-	-	-	G-20032	2020/12/10	Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, ShenZhen, GuangDong Province, P. R. China	86 755 66850100
Worldwide Testing Services (Taiwan) Co., Ltd.	Worldwide Testing Services (Taiwan) Co., Ltd.	-	-	-	○	-	R-20019	2020/12/10	No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City, Taiwan (R.O.C.)	886-2-6613-0228
Nemko Korea Co., Ltd.	Third building 3 m Chamber above 1 GHz	-	-	-	-	-	G-20027	2021/1/21	155, Osan-ro, Mohyeon-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea	82-31-330-1741
BTL Inc.	C03	-	-	-	-	-	T-20021	2021/1/21	No.18,Ln.171,Sec.2,Jiuzong Rd.,Neihu Dist.,Taipei	886-2-2657-3299
QAI Laboratories, Ltd.	QAI Laboratories, Ltd.	-	-	-	○	-	R-20011	2021/1/21	3980 North Fraser Way, Burnaby BC Canada V5J5K5	6045278378

Before putting down a pen

Impressionism

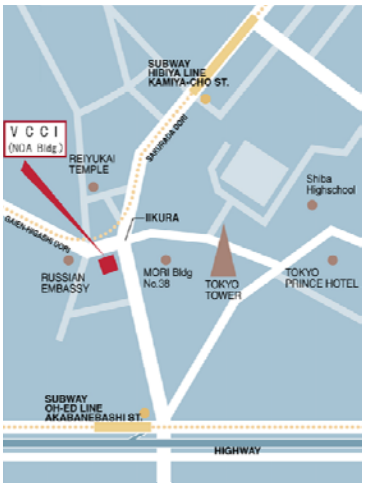
The other day, I visited a local regional museum and enjoyed viewing an exhibit titled "From Turner to Monet" from the collection of the National Museum of Wales. About 70 paintings in the collection of the National Museum of Wales were exhibited, and the purpose of the exhibit was to trace the transition of art from the 19th to the 20th century. The National Museum of Wales is known for collections of excellent French modern artists such as Monet and Renoir, as well as British masters including Turner.

By the way, Impressionist paintings were harshly criticized by the conservative French art world at that time because of their unique expression technique. They said that for example, Monet's paintings were sketches at best and could not be said as complete works.... The Impressionist painters created an organization on their own and arranged exhibitions by themselves because they were rejected by the "Salon de Paris" hosted by the French Art Academy. As a result of these exhibitions, public interest in new art increased, the market expanded gradually, and Impressionism was accepted by the masses.

Well, I am unfamiliar with painting, so I do not know anything about academic things at all, but when I examined an Impressionist painting closely, I felt that it was depicted with a rough touch which was far from a faithful portrayal, and that it was vague on the whole. However, when I looked at the painting from a little distance, I felt that there is a world that stands out (as an impression) in a vague picture, and in a sense, the thing that the painter wanted to express emerges more clearly than a painting more faithful in detail.

In fact, my favorite of the day was "Palazzo Dario" by Claude Monet. The "Impression" given by the gondola floating on a canal in Venice Italy, which seemed to be slightly misty, is clearly shown in the mist with the expression of the beautifully glistening water surface, was excellent! I sat down on a sofa in the center of the exhibition room and spent some time appreciating the painting.

In this year, 2018, I am planning to visit some museums which have exhibits I want to check out. Why don't you visit a museum if you are interested in art? (Y.H.)



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