



VCCI Council

VCCI

English

Annual Report 2023

April 2023 - March 2024



VCCI Council
<https://www.vcci.jp/>



VEGETABLE
OIL INK

VCCI Council

The purpose of this corporate body is to promote, in cooperation with related industries, the voluntary control of radio disturbances emitted from multimedia equipment (MME) on the one hand, and improvement of robustness of MME against radio disturbances on the other hand, so that the interests of Japanese consumers are protected with respect to anxiety-free use of MME.

» Description

- | | |
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| <p>1 Formulate basic policies on voluntary control of electromagnetic disturbances emitted by multimedia equipment</p> <p>2 Coordinate the interest of member organizations and liaise with the government and related agencies</p> <p>3 Receive and file Conformity verification report with the voluntary control standards and issue reception acknowledgement in return</p> <p>4 Carry out market surveillance (with sampling test commissioned to third party testing laboratories)</p> <p>5 Regularly review the suitability of the Technical Requirements for necessary revisions by research and experiments and share the results with members</p> | <p>6 Hold measurement skills courses to prepare members' engineers for adequate conformity assessment</p> <p>7 Study trends in overseas EMC regulations and seek opportunities for mutual recognition agreement</p> <p>8 Examine credentials of measurement laboratories and facilities based on the measurement facilities registration system</p> <p>9 Do PR activities for general consumers and reach out to potential companies and associations for encouraging them to join VCCI</p> <p>10 Administer other programs for effective operations of the voluntary control</p> |
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» Greetings

Thank you for your continuing support for the activities of VCCI Council. Here, I would like to deliver a report on our FY 2023 activities, and I look forward to your continued support.

The spread of social digitalization trends such as remote work and online meetings sparked by the COVID-19 pandemic seems to have taken hold as a new work style, even after the reclassification of COVID-19 to Class 5. Although VCCI Council has also experienced a rise in office attendance rates, we have retained the work-from-home system, and worked to maintain our work environment and improve work efficiency by implementing various digital technologies. Meanwhile, there has been a gradual recovery in social interaction. In FY 2023, VCCI Council, like many other organizations, resumed activities that had been canceled or postponed due to the COVID-19 pandemic. We also returned to holding some events face to face, that had previously been held in on-demand format (in video format on the VCCI Council website). Going forward, we expect digital socioeconomic transformation to continue to accelerate as we capitalize on both the convenience of online spaces and the benefits of real-life interaction while incorporating digital technologies such as artificial intelligence (AI) and robotics. Accordingly, we expect the communication environments underpinning this transformation to grow increasingly important in the future.

CEATEC 2023, held in October 2023, returned to its pre-COVID format, while also being made available online. CEATEC's mission is to bring together people, technologies, and information from a variety of industries and occupations to provide a space for innovators to "co-create" the future, to build "Society 5.0", a two-pronged solution to economic-development and social issues. This is none other than a call to action for us all to collaborate on building the new social and economic visions emerging from the post-pandemic "new normal".

The key to achieving Society 5.0, such as the realization of the "Vision for a Digital Garden City Nation", will be digital technologies. Communication infrastructure, alongside semiconductors and other devices, will be fundamental to materializing this vision. For example, the government's integrated innovation strategy adopts "digital social infrastructure" alongside AI, semiconductor, and quantum technologies as a major field. The strategy states that "as cyberspace and physical space combine, we will ensure further data enhancement and sound information distribution" and "securing an industrial foundation for our digital society, and maintaining and upgrading information and communication infrastructure will be essential".

Additionally, a diversity of technologies will be implemented in society based on concepts like the "Super City" to be highlighted at the Osaka, Kansai expo in 2025, and the results of various demonstration experiments. Needless to say, clean electromagnetic environments will be crucial to using the wireless and radio technologies essential to these advancements. We believe that VCCI Council's role and responsibilities will only grow more important going forward.

Since the 1985 founding of our predecessor, the Voluntary Control Council for Interference by Information Technology Equipment, VCCI Council has been working to prevent interference caused by information technology devices. VCCI Council has also been engaged in activities to protect the interests of users and consumers of electrical and electronic devices. Compared to those early days, CPU operating frequencies have improved from the order of MHz to the order of GHz, and advancements in the internet have popularized the use of LANs not just in offices, but also in the home. 2015 saw the publication of CISPR 32 Edition 2, an international standard for electromagnetic emissions from multimedia equipment. These standards are being increasingly applied within Japan based on a recommendation submitted to the Information and Communications Council of the Ministry of Internal Affairs and Communications. VCCI Council's new Rules for Voluntary Control Measures, based on these multimedia EMC standards, were published and enforced from November 2016. I would like to thank all of our members for their



VCCI Council
President:
HIRAI Atsuo

thorough understanding and smooth implementation of these Rules for Voluntary Control Measures. Currently, we are actively participating in international conferences for international standardization in preparation for CISPR 32 Edition 3, which is scheduled to be issued in FY 2026. In recent years, the number of new "Registration of Product Conformity" submissions has remained steady at about 5,000 per year. Additionally, we are seeing more and more new members from countries overseas that previously had no members at all. Our membership now spans 30 countries and regions.

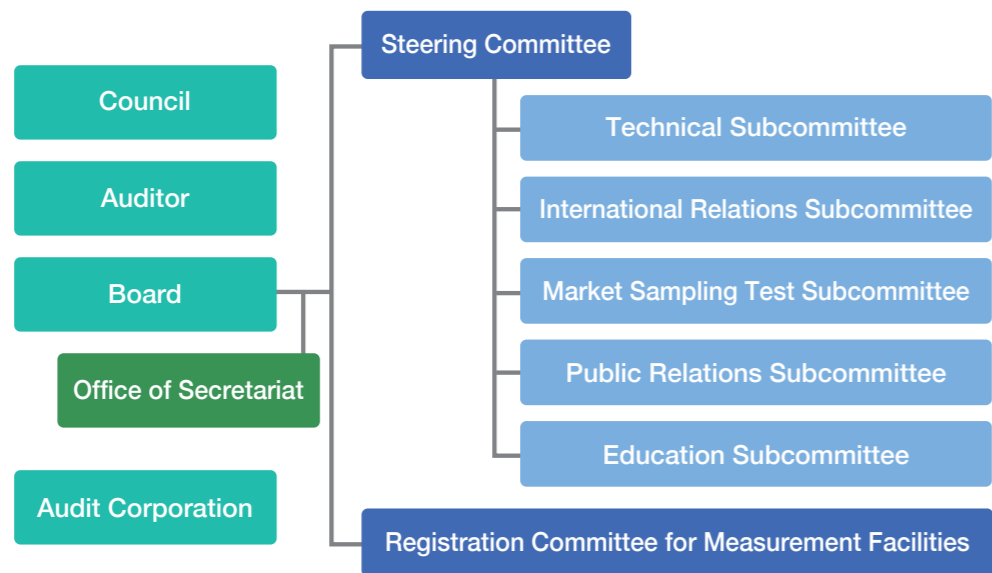
VCCI Council's activities are driven by the trust inspired by the VCCI mark. Specifically, our operation is underpinned by our three "pillars" of regulation: our system for registering measurement facilities, our system of voluntary conformity declaration by member-filed registration of product conformity, and our fair market sampling tests. I am convinced that the VCCI mark could only earn its trust thanks to all of our members' earnest support and excellent compliance with our regulations. Going forward, we will continue to help build clean electromagnetic environments through these activities.

Improving awareness of the VCCI mark worldwide and contributing to the enactment of international standards for electromagnetic interference are an important part of VCCI Council's promotion of voluntary control. In FY 2023, we held our first face-to-face international forum in four years, inviting overseas electromagnetic interference regulatory authorities, in a format that facilitated direct discussion with speakers from the US and EU. The forum was also available online in on-demand format to interested parties, including those overseas. Every year, research results learned in the course of VCCI's activities are compiled into papers and presented at relevant conferences in Europe, the US, and the Asia-Pacific. We feel that these kinds of activities have been well-received, raising awareness of VCCI Council both in Japan and overseas.

In Japan, we held Business Report Meetings and VCCI seminars as part of the Info-Communications Promotion Month held by the Ministry of Internal Affairs and Communications. While small in scale, these were our first face-to-face events in four years. For regions that requested it, in this case Gifu and Chiba Prefectures, we also visited locations such as industrial testing laboratories to hold VCCI seminars, again for the first time in four years. As for the educational and training business, we have resumed face-to-face training seminars alongside our hands-on training. We held online classroom lectures, some of which offered a hybrid format, as part of our educational and awareness-raising activities regarding electromagnetic-interference technologies. We will continue to raise awareness of the VCCI mark and improve the technical skill of engineers involved in electromagnetic interference, for example through PR activities such as our participation in technology exhibitions.

With the cooperation of our members and of relevant government agencies and groups, we hope to continue addressing trends in technological innovation which will be integral to radio applications, and their social implementation, thereby helping to build clean electromagnetic environments as a foundation for Society 5.0. We will make sure these kinds of activities prove meaningful to our members, and in turn to Japanese consumers. I hope you will continue to support our activities going forward.

» Organization



Board of councilors

Chairman of Councilor

TOKUDA Masamitsu

Honorary Professor, Tokyo City University; Visiting Co-researcher, Graduate School of the University of Tokyo

Councilor

OHYA Akira

Formerly of the Japan Broadcasting Corporation

Councilor

KOGA Ryuji

Honorary Professor, Okayama University

Councilor

FUJIWARA Osamu

Honorary Professor, Nagoya Institute of Technology

Councilor

OHSAKI Hiroyuki

Researcher and Professor, Graduate School of Frontier Sciences, The University of Tokyo

Councilor

KANEKO Kazuo

Former President, The Association for Overseas Technical Cooperation and Sustainable Partnerships

Councilor

HASEYAMA Miki

Vice President, Hokkaido University
Professor, Faculty of Information Science and Technology
Director, Data-Driven Interdisciplinary Research Emergence Department (D-RED)

Councilor

FURUTANI Takeshi (until June 28, 2024)

YAJIMA Hidehiro (from June 28, 2024)

Former Executive Director, Japan Electrical Safety & Environment Technology Laboratories

Directors and auditors

President

HIRAI Atsuo

Japan Electronics and Information Technology Industries Association

Director

ISHII Yoshinori

Communications and Information Network Association of Japan

Auditor

SHIBATA Satoshi

Formerly of Panasonic Corporation

Director

TANAKA Hirotoshi (until June 28, 2024)

HAYASHI Shoichiro (from June 28, 2024)

Japan Business Machine and Information System Industries Association

Executive Director

ODA Akira

VCCI Council

Auditor

HASEGAWA Hiroaki

Formerly of DOCOMO Datacom, Inc.

Accounting Auditor

Miogi Audit Corporation

» VCCI Council Committees and Activities

Steering Committee

Oversees subcommittees' activities and endorses their resolutions, handles general managerial matters of VCCI Council, and makes proposals to the Board of Directors.

General operations

(1) Establishment of the new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2.0

The new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2.0 (which is most recent) were enacted and enforced in November 2016. Acceptance of registration of product conformity based on the old V-2 "Rules for Voluntary Control Measures" terminated at the end of March 2019. This fiscal year is the fifth year since the period allowing overlap between the new and old rules ended. Judging from the volume of registration of product conformity and other documents, we can assume that VCCI members have made a smooth transition to the new rules, which are now firmly established.

(2) Dissemination and awareness-raising activities on the new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2.0

This fiscal year, we revised two guidance documents. "Guidance for Preparing Test Report (for VCCI-CISPR 32)" (VCCI 32-1-A:2023) is a revision of the previous guidance document "Guidance for Preparing Test Report (for VCCI-CISPR 32)" (VCCI 32-1-A:2020). This revision includes additional details on test conditions for testing laboratory descriptions and power supply voltage, which had been revised for ISO 17025. "Guidance for Rules for Voluntary Control Measures" (VCCI 32-1-J:2023) explains all items of "Rules for Voluntary Control Measures" (VCCI 32-1:2016). This revision focuses on our most frequently received member inquiries regarding the previous fiscal year's "Guidance for Rules for Voluntary Control Measures" (VCCI 32-1-J:2022), and applies to the operation of the "Rules for Voluntary Control Measures". Both revised documents came into effect starting December 20, 2023.

We also held a VCCI seminar as the 2023 Info-Communications Promotion Month Event for MIC. From FY 2020, this seminar had been held in on-demand format on the VCCI Council website as a measure against the COVID-19 pandemic. However, this fiscal year, the seminar was held face to face on July 7, 2023 at Kikai Shinko Kaikan for the first time in four years. The seminar's purpose was to introduce VCCI Council's activities for overseas members and provide the latest news, and was streamed as "VCCI Seminar 2023" from November 13 to 24, 2023 on the VCCI Council website. 41 members (including 12 from Taiwan, 8 from the US, 5 from South Korea, 4 from China and Germany respectively, 1 from Canada, Hong Kong, Singapore, and Denmark respectively, and 4 from Japan) participated in the seminar.

Additionally, we held our first "regional seminars" in four years. These were VCCI seminars held at public testing laboratories in regions interested in becoming VCCI members or hosting VCCI seminars. One seminar was held at Gifu Prefectural Industrial Technology Center (Seki City) on July 21, 2023, and another was held in Tokatsu Techno Plaza (Kashiwa City) on February 29, 2024.

(3) MOU operation and talks with overseas institutions

Ongoing MOU operations have been conducted between Japan and the U.S. to mutually recognize data measured in laboratories in both countries. As of the end of March 2024, the numbers of laboratories registered using this system have reached 67 in the U.S., and 56 in Japan. During the international EMC symposium IEEE EMC+SIPI 2023, we exchanged information face to face with three US laboratory-accreditation bodies (A2LA, NVLAP, ANAB). We also participated face-to-face REDCA meetings in May 2023 (Brussels) and November (Lisbon), and gathered reference information on trends in market sampling tests and international standard formulation.

In June 2023, BSMI, CTCA, and VCCI jointly held a technical seminar in Taiwan.

(4) Enhancement of IT infrastructure security and compliance

Regarding mission-critical system restructuring (to build a new integrated system), we have conducted basic and detailed design, integration testing, and other work, aiming to begin operation in the first half of FY 2024. As in the previous fiscal year, we took thorough measures to prevent the spread of COVID-19 within the office and to ensure readiness in the event of an earthquake.

Technical Subcommittee

Sets and maintains the VCCI Technical Requirements covering standardized EMI limits, measurement methods, and conformity verification procedures which underpin the scheme of voluntary control of electromagnetic interference to preserve sustainable radio environments surrounding multimedia equipment.

Standards setting

(1) Activities for proposing international standardization

VCCI Council participated in EMC-related committees in Japan and overseas, promoting activities to reflect its opinions in the short-term and long-term challenges raised for next term's revisions to the CISPR 32 standard (planned to be issued around December 2026). VCCI Council also promoted activities to propose international standardization of power cable termination conditions at the CISPR, SC-A&I, and JAHG6 conferences.

First, we submitted Japan's proposal for power cable termination conditions for radiated-emission measurement in the CD document for CISPR 32 Ed. 3.0. Regarding the addition of power cable termination condition devices to CISPR/SC-A&I/JAHG6 in preparation for the issuing of CISPR 16-1-4 Ed. 5.0, a CDV document was issued in January 2024, and approved in April. For radiated emission measurement in CISPR 16-2-3, we created a draft CD using power cable termination devices, which is currently under review by CISPR/SC-A&I/JAHG6.

We also addressed important issues relating to future revisions to standards. Specifically, for CISPR/SC-A&I/JTF (which integrates the CISPR 32 and CISPR 16 series), we proposed narrowing down AANs used to measure wired network ports stipulated in CISPR 32 to the CISPR 16 series. For CISPR/SC-A/AHG7 (measurement instrumentation from 18 GHz to 40 GHz), we are considering extending the maximum frequency range for radiated emissions measurements to 40 GHz. Regarding this issue, VCCI Council participated in domestic round robin testing (RRT) led by the National Institute of Information and Communications Technology (NICT). VCCI Council also promoted standardization activities related to the introduction of conducted emissions below 150 kHz to CISPR/SC-H/WG1 (which revises the common standards).

Finally, we participated in the standardization activities of national standards, and submitted our feedback in a CISPR deliberation document.

(2) Hosting of the Technical Symposium

To share information on the results achieved by the Technical Subcommittee with VCCI members, we held the Technical Symposium on February 8, 2024 face to face for the first time in three years. 58 members participated. Theses released by international academic associations were also explained at the Symposium.

(3) Main activities of the Technical Subcommittee and each working group

(a) Technical Subcommittee

We created a document about the international standardization of power cable termination conditions and a contributed document about the addition of power cable termination conditions to the CD document for CISPR 32 Ed. 3.0.

(b) CISPR Project Working Group

The working group discussed revisions to the CISPR 32 standard for Edition 3.0 and a contributed document and work documents for CISPR SC-A/I JAHG6. Based on the result of the deliberations, VCCI Council submitted comments. In addition, experts who attended CISPR conferences reported to members on what was discussed and shared, then reported to members at the technical symposium.

(c) Radiated EMI Working Group

CISPR 32 Ed. 2.1 cites CISPR 16-4-2 Ed. 2.2, and adds calculations of measurement instrumentation uncertainty in the measurement of radiated emissions from hybrid antennas. The application of these standards requires the phase center correction to be calculated. Therefore, we considered methods such as calculation from antenna dimensions, actual measurements, and simulations, and reported the results to members at the technical symposium.

(d) Conducted EMI Working Group

In transformer-coupled AANs, which have been used up until CISPR 32 Ed. 2.0, the voltage/current conversion ratio varied widely depending on the EUT's common-mode impedance, impacting measurement variability and uncertainty. To address this, we prototyped an improved transformer-coupled 8W-AAN, verified whether the voltage/current conversion ratio was improved, and reported the results to members at technical symposium.

(e) Antenna Calibration and Site Validation Working Group

In the interest of protecting radio services, we considered an issue regarding the next revision (CISPR 16 (standards defining measurement methods and measurement-facility validation conditions)): evaluation methods of measurement site validity for measurement of emissions from above 18 GHz to below 40 GHz. We participated in RRT (round robin testing) led by NICT, and found that if site VSWR results up to 18 GHz satisfied the CISPR limit (6 dB), site VSWR validation measurements for the 18-GHz to 40-GHz band could be omitted. This finding was reported at technical symposium.

(f) VHF-LISN Working Group

The working group reported, to VCCI members at the technical

symposium, on its activities in the Joint Ad Hoc Group (JAHG6) (consisting of CISPR SC-A and SC-I) for promoting VHF-LISN international standardization, including addition of devices to CISPR 16-1-4 Ed.5.0 initiated by VCCI Council and proposal for measurement using power cable termination devices for radiated disturbance measurements to CISPR 16-2-3. The working group also reported on content of papers posted to international EMC symposiums in 2023 at technical symposium.

(4) Activities with academic associations (adoption and posting of three papers)

We presented the following papers at the following international symposiums:

- (a) 2023 APEMC & INCEMIC (Bengaluru, India) (May 2023)
 - Investigation of Influence on Radiated Emission Measurement by Unbalanced VHF-LISN
- (b) 2023 IEEE EMC+SIPI (Michigan, USA) (July to August 2023)
 - Issues on AC Mains Cable Termination by CMAD
 - Influence of Antenna Height Scan in Radiated Emission Measurement above 1 GHz

NOTE · CD : Committee Draft · CDV : Committee Draft for Vote
 · EUT : Equipment Under Test · SAC : Semi-Anechoic Chamber
 · AAN : Asymmetric Artificial Network
 · FSOATS : Free Space Open Area Test Site
 · OATS : Open Area Test Site
 · VHF-LISN : Very High Frequency – Line Impedance Stabilization Network
 · JAHG6 : Joint ad hoc group 6

International Relations Subcommittee

Through the promotion of cooperation and collaboration with related organizations around the world, the subcommittee contributes to the proper operation of the VCCI Council and provides highly accurate information to our members by investigating standards and operational rules in various countries and regions.

Overseas situational awareness activities

(1) Hosting of the International Forum

VCCI International Forum 2024 was held in face-to-face format at the United Nations University on March 8, 2024. We invited one speaker each from the US (ANSI C63.4WG) and the European Union (EU Commission), who held lectures at the event.

There were 56 member attendees; mostly manufacturers and testing laboratories in Japan, but also overseas members. The total number of attendees, including affiliates, was 85. Footage of the lectures were recorded, and the video and audio edited into Japanese and English versions. The resulting lecture videos were also made available on demand to members in Japan and overseas. These videos were accessed 247 times.

(2) Update to the world ITE/MME standards table

A survey on the status of emission standards and immunity standards was held in 25 countries and regions including Japan, the U.S., Europe, China, and Australia, and results were published on the website in July 2023.

(3) Provision of updates to members regarding trends in EMC regulations

Survey information on world EMC trends was entered into a database, for provision to members. Information whose provision began in April 2016 was updated as needed. Updates were made in April, May, September, October, November, and December 2023, as well as February 2024.

(4) Overseas surveys

This fiscal year's survey was postponed.

NOTE · ANSI : American National Standards Institute



Mr. Akira Oda, Executive Director | Mr. Andy Griffin | Mr. Luis Miguel VEGA FIDALGO
International Forum

Market Sampling Test Subcommittee

Checks if registration of product conformity filed to VCCI Council are conducted properly. Pass or fail is determined based on the results of measuring market samples in designated testing laboratories.

Market surveillance

(1) Market sampling tests

Market sampling tests were conducted in accordance with the Rules for Voluntary Control Measures. A total of 100 products were

tested (of which 35 were loaned and 65 were purchased), and products included personal computers, peripheral terminals, digital cameras, and LAN-related devices. Of the 100 products, registration of product conformity were filed based on the VCCI 32-1 current rules for 98 products. The test results are shown in the table below. In the first round of judgment, 94 of 100 products passed, and 6 products were "Failed-tentative". Of the 6 "Failed-tentative" products, 3 products responsible VCCI member admitted to failing after detailed investigation into the product's conformity with the rules. 1 "Failed-tentative" product subsequently passed after detailed investigation. The remaining 2 "Failed-tentative" product is being investigated in detail by the members.

The results at the end of March 2024 show that of the selected items for FY 2023, 95 passed, 3 failed, and 2 are being investigated in detail by the members in question (to undergo additional investigation in FY 2024). Furthermore, 1 product that was "Failed-tentative" in FY 2022 and underwent additional detailed investigation in FY 2023 was admitted to have failed by the member in question. This brings the total number of failed products for FY 2023 to 4. Information on failed products such as company name, model name, and other details is planned to be published in "VCCI Dayori" No. 152 (April 2024) onward with consent from the members in question.

Sampling tests found more products than the previous fiscal year, but no serious violations. In the course of the tests, all VCCI members were very cooperative in complying with our requests such as submitting test reports. We believe our members are observing the rules diligently as always.

Table Market sampling test results

| Quarter | Tests on loaned samples | | | | Tests on purchased samples | | | | Total |
|---|-------------------------|----------|----------|-----------|----------------------------|-----------|-----------|-----------|------------|
| | I | II | III | IV | I | II | III | IV | |
| Passed | 7 | 8 | 9 | 9 | 9 | 15 | 19 | 19 | 95 |
| Failed | 0 | 0 | 0 | 0 | 1 | 1* | 1 | 1 | 4 |
| Pending ("Failed-tentative" survey in progress) | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Total | 7 | 9 | 9 | 10 | 10 | 16 | 20 | 20 | 101 |

* 1: Product that "Failed-tentative" in FY 2022 and is being additionally investigated in FY 2023

(2) Document Inspection

From members, we received 40 test reports filed with conformity verification reports, and our inspection results show that 82 issues relating to electrical characteristics were identified. Of these, 1 report had insufficient test items and 1 report had inappropriate test conditions. We requested the members in question to conduct additional tests and re-inspected the results. New test reports for 2 products were re-examined and confirmed to satisfy the standard. Regarding issues other than electrical characteristics, 1 product had an inappropriate VCCI mark or warning statement displayed on the equipment, and 14 had inappropriate warning statements in instruction manuals. The members in question were notified and asked to take corrective measures, and the corrections have been confirmed.

(3) Survey of use of the VCCI mark in the market

A fact-finding survey was conducted on the use of VCCI marks in the market (1,257 models from 92 members) by checking store shelves of mass retailers. 928 products (73.8%) were confirmed to have the VCCI mark, while 329 products (26.2%) could not be confirmed to have the mark in stores because the products were mockups or electronically displayed.

In regard to VCCI-member products with VCCI marks, we identified 20 products from 8 companies whose consistency with the submitted information was not immediately apparent. The breakdown is as follows: 7 companies failed to file necessary information, and 1 company was found to have already submitted the information upon later investigation. The 7 companies that failed to file necessary information have all completed their submissions.

Additionally, upon investigation, we found a non-member product displaying the VCCI mark. The company in question will be invited to become a member of VCCI.

(4) Improvement activities

At the VCCI seminar held at the Info-Communications Promotion Month event and the regional seminars held at Gifu and Chiba Prefectures, we talked about the status of sampling tests, document inspections, and surveys on display of the VCCI mark in regard to market surveys.

At the collaborative seminar held by CTCA, BSMI, and VCCI in June 2023 in Taiwan, we talked about VCCI market sampling tests.

Additionally, a revised version of "Guidance for Rules for Voluntary Control Measures" was issued in December 2023. At the technical symposium held in February 2024, we gave a talk about this guidance document to disseminate this information to members.

Public Relations Subcommittee

Promotes awareness of VCCI Council and its activities, for example by working as creator and admin of the VCCI Council website, issuing the seasonal newsletter "VCCI Dayori" and "Annual Report" in Japanese and English, creating and distributing PR brochures and calendars, and participating in exhibitions.

Public relations activities

(1) TECHNO-FRONTIER 2023 (venue: Tokyo Big Sight)

- Face-to-face exhibition: July 26 to July 28
 - Online exhibition: August 1 to August 31
 TECHNO-FRONTIER was held for a third time in a mixed online-and-offline (face-to-face) format. At the online exhibition, relevant VCCI materials were published.

(2) CEATEC 2023 (venue: Makuhari Messe)

- Face-to-face exhibition: October 16 to October 20
 We received answers to our questionnaire from 202 participants. We no longer hold this exhibition online, and only provide a web page containing exhibitor information.

(3) COMPUTEX TAIPEI 2023 (venue: Taipei Nangang Exhibition Center)

- Period: May 30 to June 2

This event was held for the first time in five years. We held a VCCI seminar for startups at our booth.



Seminar for Startups

(4) Illuminated billboard advertising

To raise awareness of the VCCI mark, VCCI Council continued to post illuminated billboard advertisements in both the baggage claim area of Haneda Airport Terminal 1 and JR Osaka Station.

(5) Advertising in the Tokyo Metro Hibiya line (train cars passing through Tobu Railway)

We continued to post door-window stickers in Tobu Railway's 7000-series train cars, which also run on the Tokyo Metro Hibiya line.

(6) Vision for Regional Cities

We periodically broadcast our 30-second video at Vision for Regional Cities in a total of 12 cities across the country.

- Broadcast cities: Shizuoka, Sapporo, Sendai, Nagoya, Naha, Kanazawa, Takamatsu, Okayama, Hakata, Kumamoto, Hiroshima, Koriyama (Fukushima).

(7) Issuing of the newsletter "VCCI Dayori" and annual report

VCCI Council issued "VCCI Dayori" (Japanese and English versions) No.148 to No.151, and published them on the VCCI Council website. The 2022 annual report (Japanese and English versions) was also issued in August 2023 and posted on the website.

(8) Creation of 2024 desktop calendars, and wall calendars for overseas members

We created desktop calendars for distribution at future exhibitions and for visitors. We also created wall calendars and sent them to overseas members.

(9) Partial website translation into multiple languages

Regarding the text language for the VCCI Council website: Topics for which we receive relatively frequent inquiries such as joining or leaving VCCI, applicable scope, and flow of voluntary-control implementation were translated into multiple languages, leading up to FY 2023. These languages were Chinese (simplified), Taiwanese (traditional), and Korean (hangul).

Education Subcommittee

Educates and trains EMC managers and measurement engineers on VCCI rules and requirements while improving measurement techniques, by organizing technical courses and seminars.

Technical training seminars

As part of the environmental improvements and awareness-raising activities to establish the "Rules for Voluntary Control Measures" (VCCI 32-1), four types of education and training seminars were held according to the "Technical Requirements" (VCCI-CISPR 32).

Training seminars consisting only of classroom lectures were held in online format (livestreaming) to prevent the spread of the COVID-19 pandemic. Training seminars including hands-on training were conducted face to face in line with the approach taken by the government and municipalities. The seminars were held in collaboration with three testing laboratories (JQA, TELEC, and KEC) that served as the venues for the hands-on training, with COVID-19-prevention measures put in place.

This fiscal year, we completed the establishment of the task forces that had been under consideration since FY 2022, and held two types of updated training seminars. Specifically, we integrated the common aspects of our training seminars, which until FY 2022 had been divided into two categories. These categories were "below 1 GHz" (2 days: classroom lectures, 2 days: hands-on training) and "above 1 GHz" (1 day: classroom lectures, 1 day: hands-on training). Post-integration, these common aspects are now available as one training seminar (2 days: classroom lectures, 2 days: hands-on training). This means that attendees can learn about all measurement methods stipulated in the "Technical Requirements" in one seminar, improving the cost-effectiveness of seminars. Next, we extended the period of the "EMI measurement instrumentation uncertainty" training seminar from one to two days in order to provide plenty of MIU-calculation exercise problems and ensure that attendees have enough time to do their own MIU calculations. This secured enough time for attendees to calculate the MIU for each measurement method and solve exercise problems during sessions, a much-requested improvement in last year's attendee questionnaire, and improved attendee satisfaction. Also, we now

officially conduct comprehension checks, which we tried in FY 2022, at the end of each training seminar, thus enabling attendees to reflect on what they learned. Lecturers can also analyze the results of these comprehension checks to identify which points to emphasize in their explanations.

Textbooks for each lecture were revised to reflect the guidance document issued in FY 2022 and feedback from the FY-2022 questionnaire results.

(1) Education and training seminars

(a) The basic technique of EMI measurement (1 day: Classroom lectures): Held twice a year

We held training seminars for teaching the basics of the course for beginner measurement engineers and the knowledge necessary to proceed to the education and training seminar "The basic of electromagnetic waves, EMI measurement technique". One seminar was held in May, and another in October 2023, with certificates of attendance given to a total of 26 attendees.

(b) The basic of electromagnetic waves, EMI measurement technique

(4 days: Classroom lectures + hands-on training): Held twice a year
 Two training seminars including hands-on training were held in November 2023. These seminars provided technical instruction for radiated (below 1 GHz and above 1 GHz) and conducted emissions measurement and validation of test sites necessary when conducting conformity confirmation tests. A total of 15 attendees received completion certificates.

(c) The level up of the EMI measurement technique (1 day: Classroom lectures): Held once a year

This training seminar was for promoting a deeper understanding of measurement procedures needed to correctly measure the maximum emission level, automatic and manual measurement setting methods, and handling of measurement instruments. The seminar was held once in January 2024, with certificates of attendance given to 9 attendees.

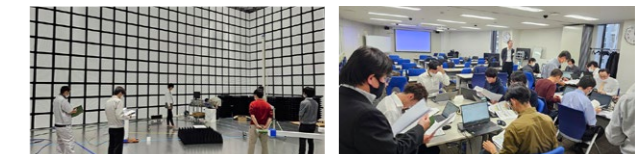
(d) EMI measurement instrumentation uncertainty (MIU) (2 days: Classroom lectures): Held once a year

This training seminar was for teaching how to calculate measurement instrumentation uncertainty (MIU) used in conformity confirmation tests according to the "Technical Requirements" (VCCI-CISPR 32). The seminar was held once in February 2024, with certificates of attendance given to 15 attendees.

(2) PR activities for training seminars

Information on the training seminars was published on the VCCI Council website (in the event calendar for training seminars) and distributed via email. We also widely publicized the content of the seminars not only to members but also to non-members, for example by individually emailing information on these training seminars to last fiscal year's attendees, and conducted strategic activities to promote attendance.

NOTE · JQA: Japan Quality Assurance Organization
 · TELEC: Telecom Engineering Center
 · KEC: Kansai Electronic Industry Development Center



Hands-on training

Training exercises

Registration Committee for Measurement Facilities

Inspects registered measurement facilities against the VCCI requirements, and determines the validity of their registration based on the results. This ensures that conformity verification is fulfilled for EMI measurement sites and instruments.

Operations such as measurement facilities registered for inspection (measuring site registration operations)

The status of registrations in FY 2023 is shown in the following section. Registrations are effective for a period of three years, and those who wish to stay members renew their registration every three years.

(1) Number of facilities registered in FY 2023

(a) Number of facilities registered via inspections: 500 (of which 352 were those renewed)

| Category of Measurement Facility | Number of Registered Facilities | (FY 2022) |
|--|---------------------------------|-----------|
| Radiated emissions (below 1 GHz) | 143 | (121) |
| Mains port conducted emissions | 125 | (107) |
| Telecommunication (wired network) port conducted emissions | 115 | (83) |
| Radiated emissions (above 1GHz) | 117 | (103) |

(b) Number of registered laboratories accredited by accreditation bodies: 90

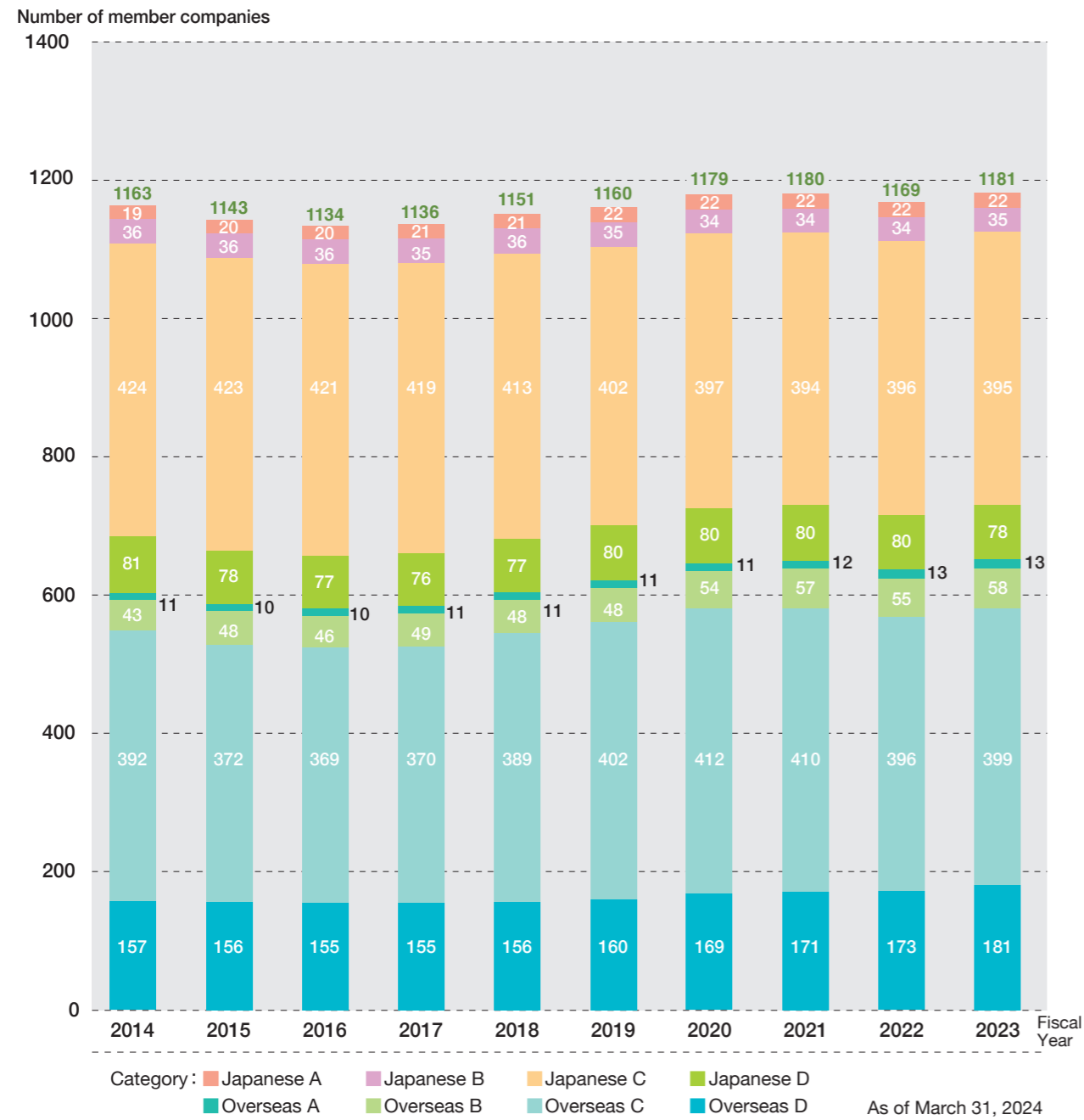
(2) Total number of facilities registered as of March 31, 2024

(a) Total number of facilities registered via inspections: 1,331

| Category of Measurement Facility | Number of Registered Facilities | (FY 2022) |
|--|---------------------------------|-----------|
| Radiated emissions (below 1 GHz) | 362 | (350) |
| Mains port conducted emissions | 335 | (326) |
| Telecommunication (wired network) port conducted emissions | 296 | (281) |
| Radiated emissions (above 1GHz) | 338 | (324) |

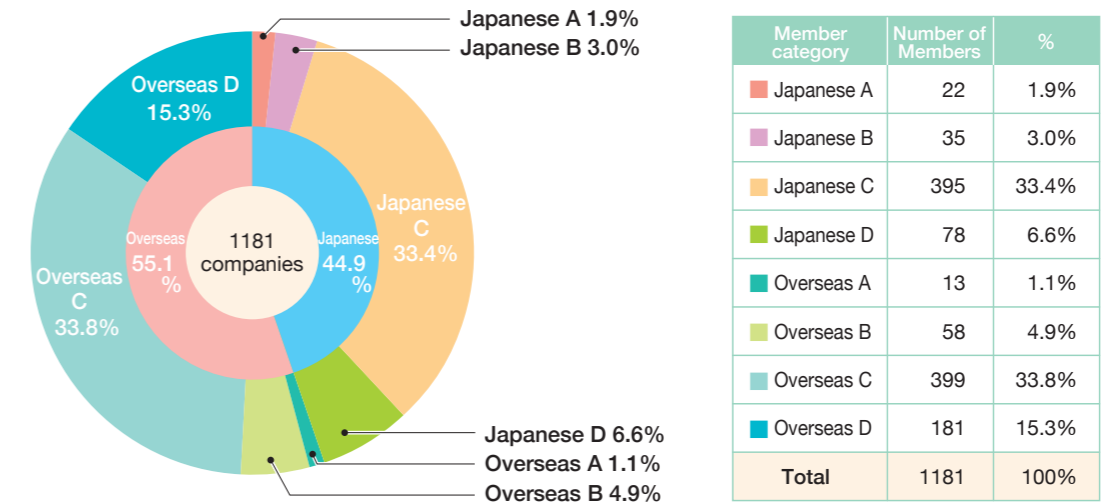
(b) Number of registered laboratories accredited by accreditation bodies: 123

» Trends in Membership

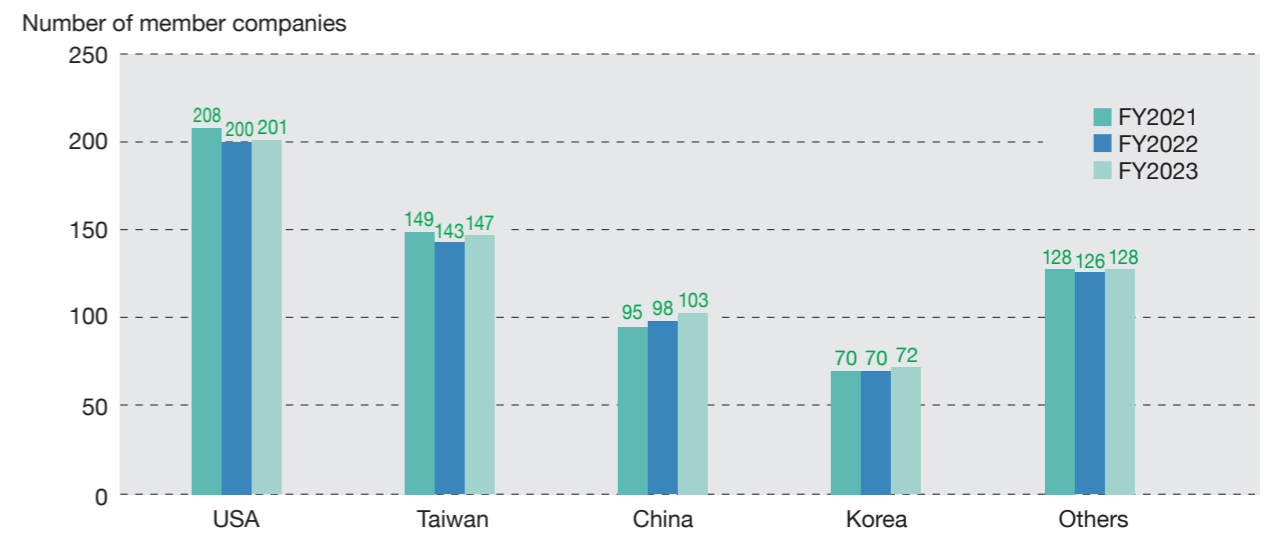
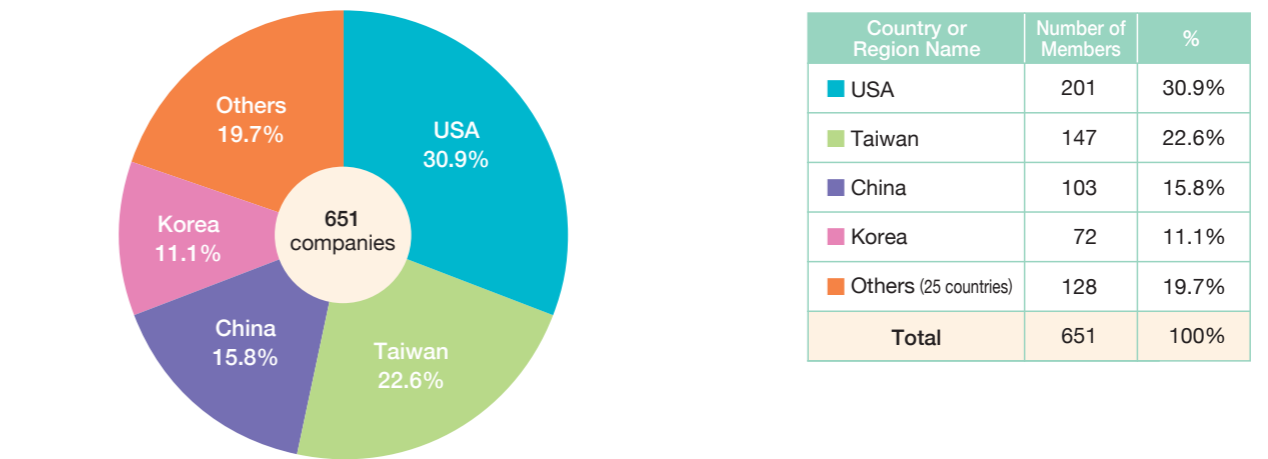


| Category | Applicable to - |
|---------------------------------------|---|
| A members (regular members) | Chairmen and Vice Chairmen of the three groups constituting VCCI (JEITA, JBMIA, CIAJ) and equivalent companies (companies that file 70 or more conformity reports a year) |
| B members (regular members) | Companies that file 10 or more conformity reports a year |
| C members (regular members) | Companies that file fewer than 10 conformity reports a year |
| D members (supporting members) | Companies that do not file conformity reports, or do not ship products (mainly measurement facility companies or companies that only collect information) |

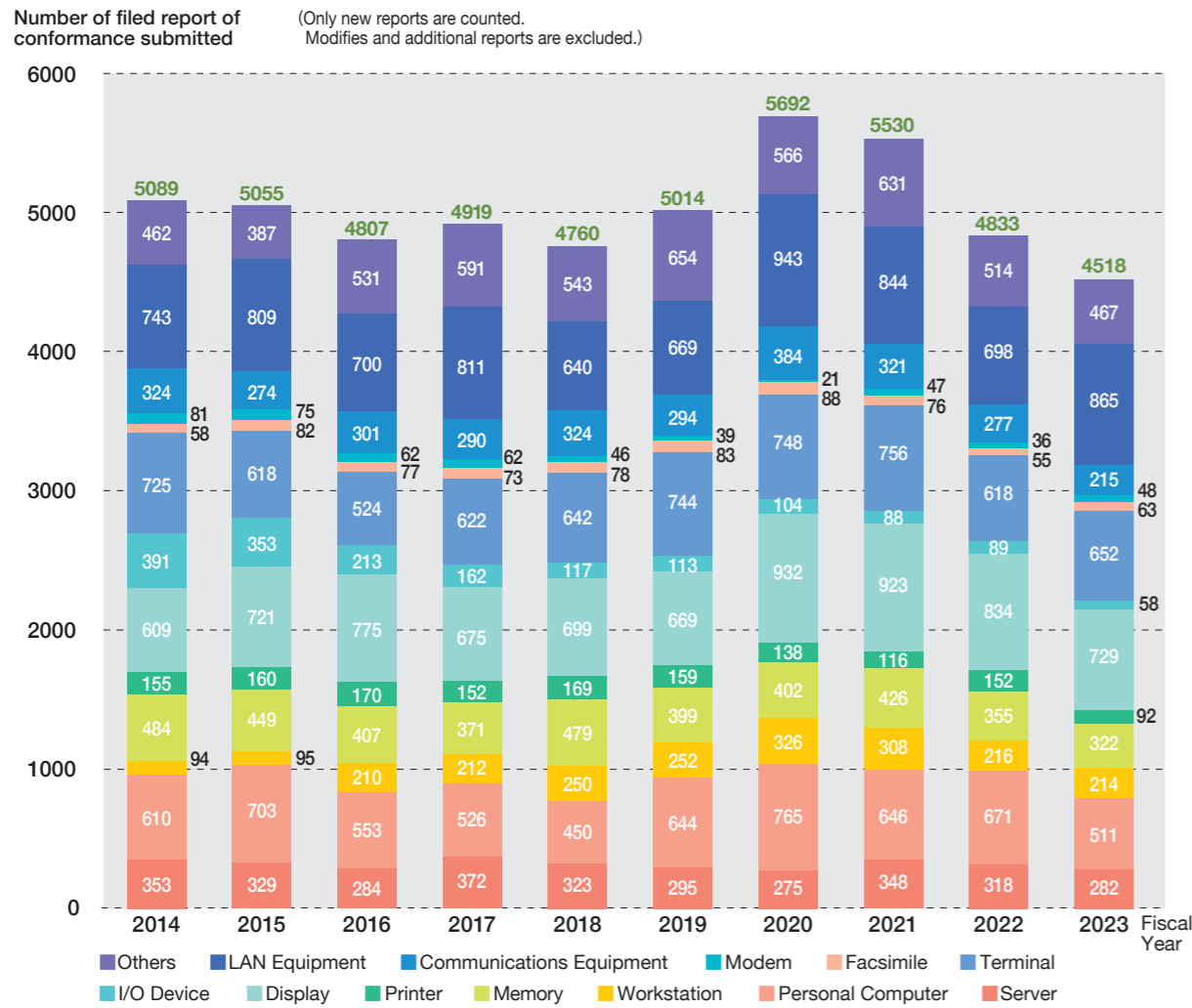
» Composition of Members



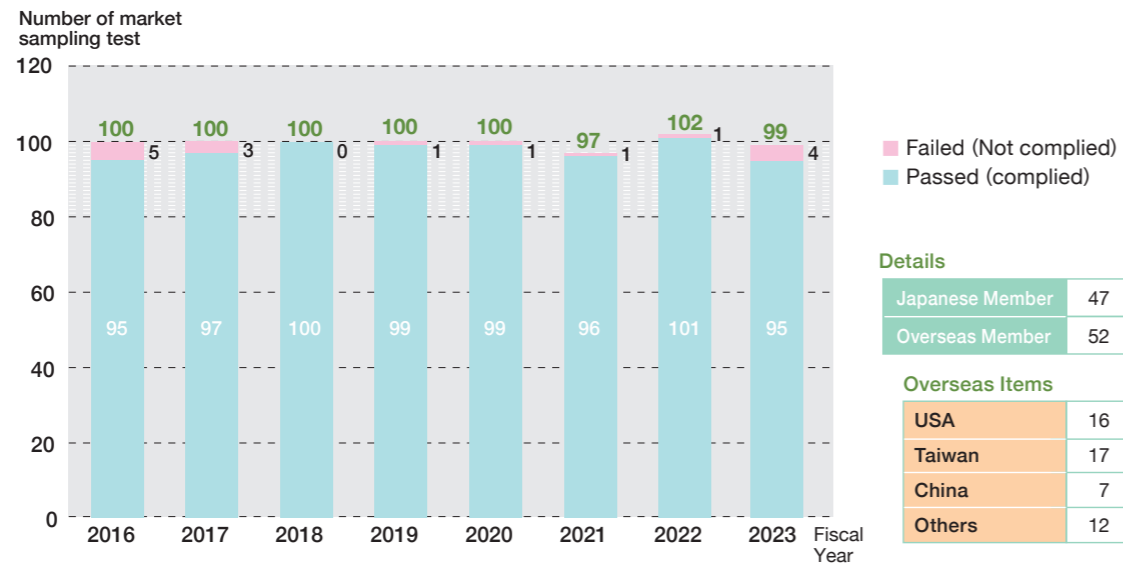
» Composition of Overseas Members



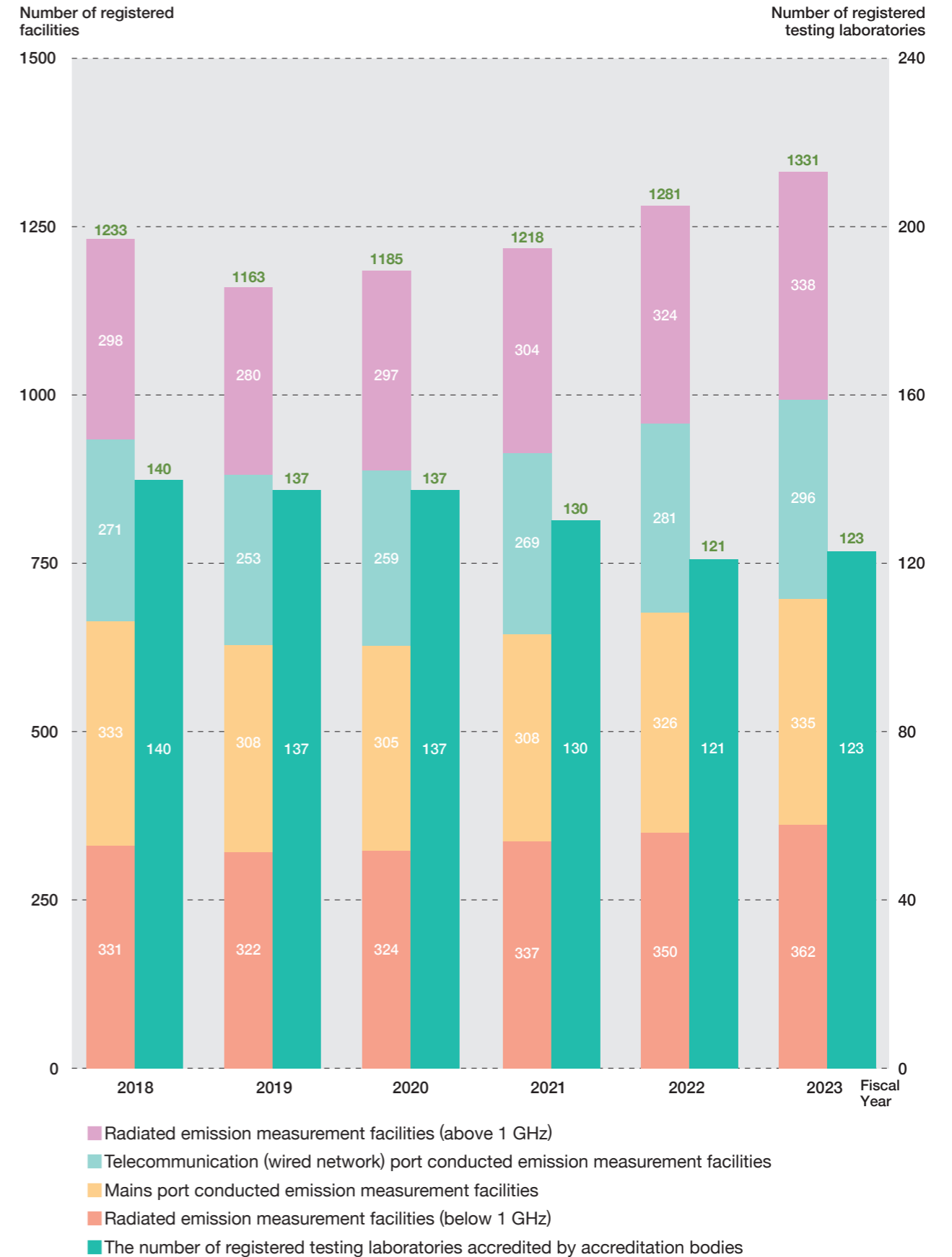
» Trends in Number of Filed Conformity Reports, by Product



» Trends in Market Sampling Test Results



» Trends in the Total Number of Registered Measurement Facilities and Laboratories as of the Fiscal Year End



3754 Kaga(H.K.) Electronics Limited (HONG KONG)
4186 Kaijet Technology International Corporation (TAIWAN)
4349 KanDao Technology Co., Ltd. (CHINA)
3683 KAON Group Co., Ltd. (KOREA)
4097 Kaonbroadband CO., LTD. (KOREA)
3339 Katron Technologies Inc. (TAIWAN)
3325 Kent Displays, Inc. (USA)
2845 Kingston Digital, Inc. (USA)
3788 KISAN TELECOM Co., LTD. (KOREA)
4056 Kontron Canada Inc. (CANADA)
[L]
3924 Lanner Electronics Inc. (TAIWAN)
2152 Lantronix, Inc. (USA)
3454 LCFC (Hefei) Electronics Technology Co., Ltd. (CHINA)
740 LEADTEK RESEARCH INC. (TAIWAN)
4266 LEDGER SAS (FRANCE)
1342 LEICA CAMERA AG (GERMANY)
4205 LEWITT GmbH (AUSTRIA)
674 Lexmark International, Inc. (USA)
4105 LG Display (KOREA)
256 LG Electronics Inc. (KOREA)
3926 LINKFLOW Co., Ltd. (KOREA)
4279 Linxee(Beijing) Technology Co., Ltd (CHINA)
4095 Lionix Corporation (TAIWAN)
495 Lite On Technology Corp. (TAIWAN)
4347 LK Ventures Seoul HeadQuarters (KOREA)
532 Logitech Inc. (USA)
3965 Luxshare Precision Limited (HONG KONG)
[M]
1133 Magic Control Technology Corporation (TAIWAN)
2105 Malvern Instruments Limited (U.K.)
1182 Marvell Semiconductor Inc. (USA)
4114 Matrixed Reality Technology Co., Ltd. (CHINA)
359 Matrox Central Services Inc. (CANADA)
3639 Matterport, Inc. (USA)
4292 MaxLinear, Inc. (USA)
3930 McDowell Signal Processing, LLC (dba McDSP) (USA)
4256 Mech-Mind Robotics Technolgies Ltd. (CHINA)
2863 Mellanox Technologies, Ltd. (ISRAEL)
1573 Micro-Star International Co., Ltd. (TAIWAN)
3921 Microchip (ISRAEL)
3102 Micron Technology, Inc. (USA)
1639 Microsemi (ISRAEL)
768 MICROSOFT CORPORATION (USA)
1433 MITAC COMPUTING TECHNOLOGY CORPORATION (TAIWAN)
1896 MitraStar Technology Corporation (TAIWAN)
4229 MJLINK Co., Ltd. (KOREA)
4230 Montblanc-Simplo GmbH (GERMANY)
3529 Moxa Inc. (TAIWAN)
1090 Musarubra US LLC (Trellix) (USA)
[N]
3778 Nacon (HK) Ltd (HONG KONG)
3002 NDS Surgical Imaging, LLC (USA)
1687 NetApp, Inc. (USA)
1418 NETGEAR, Inc. (USA)
1533 Netronix Inc. (TAIWAN)
3712 Netronome Systems, Inc. (USA)

667 NetScout Systems, Inc. (USA)
1316 Network Engines Inc, DBA "NEI", & DBA "Unicom Engineering Inc." (USA)
3865 Network Integrity Systems, Inc. (USA)
2608 New H3C Technologies Co., Ltd. (CHINA)
1961 NEXCOM International Co., LTD. (TAIWAN)
3798 NextDrive Co., LTD. (TAIWAN)
4289 Nile Global Inc (USA)
4199 Nix Sensor Ltd. (CANADA)
3640 Nokia of America Corporation (USA)
308 Nokia-Global Product Compliance Laboratory (USA)
3997 Nozomi Networks Inc. (USA)
3139 NT-ware Systemprogrammierung GmbH (GERMANY)
1904 NueTeq Technology, Inc. (TAIWAN)
3336 Nutanix, Inc. (USA)
1423 NVIDIA CORPORATION (USA)
4273 NZXT Inc. (TAIWAN)
[O]
4225 Octane Biotech Inc. -A Lonza Company (CANADA)
3827 One Stop Systems (USA)
3813 OnLogic Inc. DBA Logic Supply (USA)
3550 Opengear Inc. (USA)
241 Oracle America, Inc. (USA)
4135 Origin Wireless Taiwan Corp. (TAIWAN)
3062 Orion Technology Co., Ltd. (KOREA)
577 Overland Storage, Inc. (USA)
3657 OXTI PTE LTD (SINGAPORE)
[P]
3904 PAKERS CO., LTD (KOREA)
3441 Palo Alto Networks Inc. (USA)
3434 Panasas, Inc. (USA)
2372 Panduit Corp. (USA)
4156 PARTECH INC (USA)
1808 PARTNER TECH CORP. (TAIWAN)
3974 PAX Computer Technology (Shenzhen) Co., Ltd. (CHINA)
3360 PC WORTH INT'L CO., LTD. (TAIWAN)
2869 PEGATRON CORPORATION (TAIWAN)
3996 Pensando Systems, Inc. (USA)
3851 PERVASIVE DISPLAYS INC. (TAIWAN)
2614 Philips & Lite-On Digital Solutions Corp. (TAIWAN)
4346 Ping Services Pty Ltd (AUSTRALIA)
2181 PIOLINK, Inc. (KOREA)
3925 Pismo Labs Technology Limited (HONG KONG)
2524 Plantronics Inc. (USA)
4258 Plasmapp Co., Ltd. (KOREA)
4180 Pliops LTD (ISRAEL)
3642 PNY TECHNOLOGIES Asia Pacific Limited (TAIWAN)
3146 Power Quotient International Co., Ltd. (TAIWAN)
2062 POWERCOM CO., LTD. (TAIWAN)
3374 Pride Tech Corporation (TAIWAN)
851 Primax Electronics Ltd. (TAIWAN)
1910 PROMISE TECHNOLOGY, INC. (TAIWAN)
4018 Protempis LLC. (USA)
4326 Proto, Inc. (USA)
3726 PSI Laser GmbH (GERMANY)
3818 Pure Storage Inc. (USA)

[Q]
4281 QANBA USA, LLC (USA)
4011 Qbic Technology Co., Ltd. (TAIWAN)
2841 Qisda Corporation (TAIWAN)
3162 QNAP Systems, Inc. (TAIWAN)
2261 Qualys Inc. (USA)
726 QUANTA COMPUTER INC. (TAIWAN)
1012 Quantum Corporation (USA)
3842 Qucell Networks Co., Ltd. (KOREA)
[R]
2407 Radware Ltd. (ISRAEL)
3371 Rakuten Kobo Inc. (CANADA)
4262 Rakuten Symphony Singapore (SINGAPORE)
4118 Ramaxel Technology (Shenzhen) Co., Ltd (CHINA)
1895 Raritan International B.V. Taiwan Branch (TAIWAN)
3888 Rein Medical GmbH (GERMANY)
3947 REMOTEC TECHNOLOGY LTD. (HONG KONG)
3931 RetailNext, Inc. (USA)
3437 rf IDEAS, Inc. (USA)
1558 Ribbon Communications Inc. (USA)
2628 Ribbon Communications Operating Company, Inc. (USA)
2377 Rimage Corporation (USA)
2529 Riverbed Technology (USA)
3389 RSUPPORT CO., LTD. (KOREA)
2480 Ruckus Wireless LLC (USA)
4269 RuggON Corporation (TAIWAN)
4062 Ruijie Networks Co., Ltd. (CHINA)
[S]
4075 SambaNova Systems, Inc. (USA)
2750 SAMPO Corporation Ltd (TAIWAN)
271 SAMSUNG ELECTRONICS Co., Ltd. (KOREA)
3627 Sanmina Corp (USA)
4309 SD Optics, Inc. (KOREA)
1416 Seagate Cloud Systems, Inc. (USA)
3046 Seagate Technology (USA)
2552 SEH Computertechnik GmbH (GERMANY)
3239 SendTek Corporation (TAIWAN)
481 SerComm Corporation (TAIWAN)
4059 SGM, Co., Ltd. (KOREA)
4140 SHANGHAI CHINGMU VISION TECHNOLOGY CO., LTD (CHINA)
4320 Shenzhen 8k-link Optoelectronics Technology Co., Ltd. (CHINA)
4298 Shenzhen Horn Audio Co., Ltd. (CHINA)
4079 Shenzhen Longsys Electronics Co., Ltd. (CHINA)
4200 Shenzhen Unionmemory Information System Limited (CHINA)
4196 Shopify Inc. (CANADA)
3618 Shuttle Inc. (TAIWAN)
4331 SIG Co., Ltd. (KOREA)
2306 Silicom Ltd. (ISRAEL)
2535 Silver Peak Systems, LLC (USA)
3131 SK hynix Inc. (KOREA)
4233 SK hynix NAND Product Solutions Corp. (USA)
2276 SMART Embedded Computing, Inc. (USA)
1960 SMART Modular Technologies, Inc. (USA)
2501 SMART Technologies ULC (CANADA)
2597 Solace Corporation (CANADA)

4050 SOLID STATE STORAGE TECHNOLOGY CORPORATION (TAIWAN)
794 SOLID YEAR CO., LTD. (TAIWAN)
3158 SOLiD, Inc. (KOREA)
3773 SonicWall Inc. (USA)
4134 Sonnet Technologies, Inc. (USA)
3808 Sonos, Inc. (USA)
3249 Sophos Ltd. (U.K.)
3650 Spectra Logic Corporation (USA)
3752 ST Engineering iDirect, Inc. dba iDirect (USA)
3447 SteelSeries ApS (TAIWAN)
1498 Stratus Technologies, Inc. (USA)
3243 Sunix Co., Ltd. (TAIWAN)
2933 Sunrex Technology Corp (TAIWAN)
1880 SUPER MICRO COMPUTER INC. (USA)
3792 Suzhou Lehui Display Co., Ltd. (CHINA)
4340 Swissbit AG (SWITZERLAND)
3815 Synology Inc. (TAIWAN)
[T]
3838 T.I.T. ENG Co., Ltd. (KOREA)
3175 Taiwan BOE Vision-electronic Technology Co., Ltd. (TAIWAN)
4177 TAIWAN CONTEC CO., LTD. (TAIWAN)
1078 Tandberg Data GmbH (GERMANY)
3962 Tatung Technology Inc. (TAIWAN)
4203 Technologies Humanware (CANADA)
4215 Teradata Operations, Inc. (USA)
3782 Thales DIS CPL USA, Inc. (USA)
1524 Thales DIS France SAS (FRANCE)
3719 THINKWARE CORPORATION (KOREA)
3626 Tobii AB (SWEDEN)
1601 Top Victory Electronics Co., Ltd. (TAIWAN)
3652 TP-Link Corporation Limited (CHINA)
4120 TQ-Systems GmbH (GERMANY)
3542 TransAct Technologies Incorporated (USA)
3695 Trenton Systems (USA)
3761 Turtle Beach Europe, Ltd., Taiwan Branch (TAIWAN)
3565 Twinhead International Corp. (TAIWAN)
4252 2N TELEKOMUNIKACE a.s. (CZECH REPUBLIC)
4300 TXOne Networks Inc. (TAIWAN)
[U]
4216 Ubiquoss Inc. (KOREA)
4045 Ufi Space Co., Ltd. (TAIWAN)
886 Universal Global Scientific Industrial Co., Ltd. (TAIWAN)
3875 UPG Company LLC (USA)
4164 Utimaco, Inc. subsidiary of Utimaco GmbH (USA)
[V]
4160 VALTEC TECHNOLOGY CO., LTD. (TAIWAN)
4187 Vecima Networks Inc. (CANADA)
4235 Veo Technologies ApS (DENMARK)
3988 Verico International Co., LTD. (TAIWAN)
3668 Veritas Technologies LLC (USA)
4221 Verkada Inc. (USA)
3969 VERSA NETWORKS (USA)
585 Vertiv IT Systems, Inc. (USA)
2595 ViaScope Inc. (KOREA)
3613 ViewSonic International Corporation (TAIWAN)
4228 ViGEM GmbH (GERMANY)

3194 Vigilent Corporation (USA)
4162 Vinpower Inc. (USA)
3439 Virtual Instruments Corporation, DBA Virtana Corp (USA)
4311 VITURE Inc. (USA)
2443 VIVOTEK INC. (TAIWAN)
3730 Vmware LLC (USA)
3291 Voyetra Turtle Beach, Inc. (USA)
3125 Vuzix Corporation (USA)
[W]
3829 Warwick Acoustics Ltd. (U.K.)
3852 WAWGD, Inc. d.b.a. Foresight Sports (USA)
3666 Weifang GoerTek Electronics Co., Ltd. (CHINA)
3763 Weihai Daewoo Electronics Co., Ltd. (CHINA)
2432 Western Digital Technologies, Inc. (USA)
1718 WIBU-SYSTEMS Aktiengesellschaft (GERMANY)
2418 WIDE CORPORATION (KOREA)
4052 Wincomm Corporation (TAIWAN)
4246 WINGTECH GROUP (HONGKONG) LIMITED (HONG KONG)
2912 Wins Co., Ltd. (KOREA)
4124 WiSECURE Technologies (TAIWAN)
1767 Wistron Corporation (TAIWAN)
3423 Wiwynn Corporation (TAIWAN)
4318 Wooting Store B.V. (THE NETHERLANDS)
4227 Workaround GmbH (GERMANY)
4301 Wuhu Doking Electronic Technology Co., Ltd. (CHINA)
4282 Wuxi Taclink Optoelectronics Technology Co., Ltd. (CHINA)
[X]
3359 XAC Automation Corporation (TAIWAN)
2827 Xerox Corporation (USA)
4223 xFusion Digital Technologies Co., Limited (CHINA)
4345 XGIGA COMMUNICATION TECHNOLOGY CO., LTD (CHINA)
4171 Xiaomi Communications Co., Ltd. (CHINA)
3912 XILINX, INC. (USA)
[Y]
4191 Yellowbrick Data, Inc. (USA)
4260 Yibin Jiaxin Electronic Technology Co., Ltd. (CHINA)
[Z]
1143 Zebra Technologies Corporation (USA)
1229 Zebra Technologies Corporation (USA)
3729 ZPE Systems, Inc. (USA)
3956 ZT GROUP INT'L, INC. (USA)
3354 ZTE Corporation (CHINA)
3646 ZUNIDATA SYSTEMS INC. (TAIWAN)
2596 Zylux Acoustic Corporation (TAIWAN)

[C]
1192 Chiba Industry Advancement Center Tokatsu Techno Plaza
1846 Chokuan Information and Industry Development Association
755 COSMOS CORPORATION
[D]
3807 DENSO EMC ENGINEERING SERVICE CORPORATION
348 DMG MORI Digital Co., LTD.
[E]
300 e-OHTAMA, LTD.
997 E&C Engineering K.K.
1263 Ehime Institute of Industrial Technology
259 EMC Japan Corporation
1906 ETS-Lindgren Japan, Inc.
[F]
101 FOSTER ELECTRIC CO., LTD.
1115 FUJITSU GENERAL EMC LABORATORY LIMITED
3893 Fukushima medical device industry promotion agency
[G]
4041 Gifu Prefectural Industry Technology Center
[H]
423 HIROSHIMA-TECHNOPLAZA CORPORATION
3937 Hokkaido Research Organization, Industrial Research Institute
[I]
3234 Industrial Research Institute of Niigata Prefecture
397 Industrial Research Institute of Shizuoka Prefecture Hamamatsu Technical Support Center
742 Industrial Technology Center of OKAYAMA Pref.
575 Industrial Technology Institute Fukushima Prefectural Government
1213 Industrial Technology Institute, Miyagi Prefectural Government
999 Intertek Japan K.K.
579 IPS Corporation
2227 ISHIKAWA Co., Ltd.
3649 Iwate Industrial Research Institute
[J]
3619 Japan Automobile Research Institute
792 JAPAN ELECTRICAL SAFETY & ENVIRONMENT TECHNOLOGY LABORATORIES
3891 Japan Gas Appliances Inspection Association
140 JEL Limited
[K]
1251 Kagawa Industry Support Foundation (NEXT KAGAWA)

Supporting Members

<Japanese>
No. Company Name

[A]
3740 AKITA Industrial Technology Center
3196 ANRITSU CUSTOMER SUPPORT CO., LTD.
4003 AXELL CORPORATION

[C]
1192 Chiba Industry Advancement Center Tokatsu Techno Plaza
1846 Chokuan Information and Industry Development Association
755 COSMOS CORPORATION

[D]
3807 DENSO EMC ENGINEERING SERVICE CORPORATION
348 DMG MORI Digital Co., LTD.

[E]
300 e-OHTAMA, LTD.
997 E&C Engineering K.K.
1263 Ehime Institute of Industrial Technology
259 EMC Japan Corporation
1906 ETS-Lindgren Japan, Inc.

[F]
101 FOSTER ELECTRIC CO., LTD.
1115 FUJITSU GENERAL EMC LABORATORY LIMITED
3893 Fukushima medical device industry promotion agency

[G]
4041 Gifu Prefectural Industry Technology Center

[H]
423 HIROSHIMA-TECHNOPLAZA CORPORATION
3937 Hokkaido Research Organization, Industrial Research Institute

[I]
3234 Industrial Research Institute of Niigata Prefecture
397 Industrial Research Institute of Shizuoka Prefecture Hamamatsu Technical Support Center
742 Industrial Technology Center of OKAYAMA Pref.
575 Industrial Technology Institute Fukushima Prefectural Government
1213 Industrial Technology Institute, Miyagi Prefectural Government
999 Intertek Japan K.K.
579 IPS Corporation
2227 ISHIKAWA Co., Ltd.
3649 Iwate Industrial Research Institute

[J]
3619 Japan Automobile Research Institute
792 JAPAN ELECTRICAL SAFETY & ENVIRONMENT TECHNOLOGY LABORATORIES
3891 Japan Gas Appliances Inspection Association
140 JEL Limited

[K]
1251 Kagawa Industry Support Foundation (NEXT KAGAWA)

» Settlement of Accounts for FY 2023

(Statement of net assets)

From April 1, 2023 to March 31, 2024

(Unit: Japanese yen)

| Item | Current Fiscal Year | Previous Fiscal Year | Increase or Decrease |
|--|---------------------|----------------------|----------------------|
| I. Statement of general net assets | | | |
| 1. Ordinary increase and decrease | | | |
| (1) Ordinary earnings | | | |
| ① Admission fees received | (2,850,000) | (3,100,000) | (△ 250,000) |
| ② Membership fees received | (247,500,000) | (245,350,000) | (2,150,000) |
| ③ Earning on enterprise fees | (19,175,000) | (18,547,500) | (627,500) |
| Site registration fees | 16,735,000 | 14,177,500 | 2,557,500 |
| Seminar enrollment fees | 2,440,000 | 4,370,000 | △ 1,930,000 |
| ④ Miscellaneous earnings | (2,629,909) | (2,193,667) | (436,242) |
| Total ordinary earnings | 272,154,909 | 269,191,167 | 2,963,742 |
| (2) Ordinary expenditure | | | |
| ① Enterprise expenditure | (227,485,520) | (229,299,102) | (△ 1,813,582) |
| Labor | 69,507,341 | 67,143,639 | 2,363,702 |
| Enterprise overhead | 55,299,627 | 60,823,671 | △ 5,524,044 |
| Operating expenditure | 2,219,266 | 1,457,237 | 762,029 |
| Standards setting | 16,072,972 | 14,229,047 | 1,843,925 |
| Technical education and training | 1,572,229 | 5,395,251 | △ 3,823,022 |
| Market surveillance | 27,368,497 | 27,404,466 | △ 35,969 |
| International relations operation | 3,617,567 | 2,018,123 | 1,599,444 |
| Public relations | 14,596,581 | 15,235,328 | △ 638,747 |
| Site registration expenditure | 26,039,360 | 26,328,260 | △ 288,900 |
| Reserve funds including reserve fund for retirement allowances | 11,192,080 | 9,264,080 | 1,928,000 |
| ② Administrative expenditure | (31,622,473) | (31,785,385) | (△ 162,912) |
| Labor | 13,031,886 | 12,675,912 | 355,974 |
| Housekeeping | 15,792,567 | 16,793,453 | △ 1,000,886 |
| Reserve funds including reserve fund for retirement allowances | 2,798,020 | 2,316,020 | 482,000 |
| Total ordinary expenditure | 259,107,993 | 261,084,487 | △ 1,976,494 |
| Current fiscal year ordinary increase and decrease amount | 13,046,916 | 8,106,680 | 4,940,236 |
| General net assets before tax | 13,046,916 | 8,106,680 | 4,940,236 |
| Corporation tax, residential tax, and enterprise tax | 70,000 | 70,000 | 0 |
| Current fiscal year general net assets | 12,976,916 | 8,036,680 | 4,940,236 |
| Balance of general net assets at the beginning of the term | 490,209,561 | 482,172,881 | 8,036,680 |
| Balance of general net assets at the end of the term | 503,186,477 | 490,209,561 | 12,976,916 |
| II. Balance of net assets at the end of the term | 503,186,477 | 490,209,561 | 12,976,916 |

» VLAC (Voluntary EMC Laboratory Accreditation Center)

VLAC was established in April 1999 by VCCI Council as an independent organization providing laboratory accreditation VLAC accredits laboratories by inspecting whether they conform to international standards "ISO/IEC17025". The scope of accreditation covers emissions from multimedia devices demanded by VCCI Council, as well as laboratories focusing on: EMC testing (electrical and electronic devices, electrical devices for medical use, on-board electrical equipment for cars, railways, ships, and elevators, etc.), performance testing of telecommunications terminal equipment, electromagnetic field exposure testing, performance testing of wired communication terminals, air-conducted noise testing, power consumption testing of home-use electronic equipment, and safety testing of medical equipment and others. Laboratories accredited by VLAC are recognized anywhere in the world because VLAC is a signatory organization of ILAC MRA. Such laboratories enjoy the privilege of fast registration with VCCI Council, free of charge simply by sending their certificate to the website.

As of the end of FY 2023, 49 testing sites of 37 laboratories have been certified by VLAC.
For details, see the VLAC website <https://www.vlac.co.jp/>.



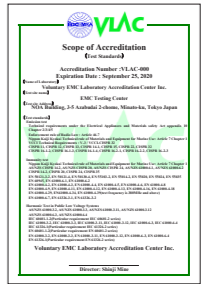
ILAC Combined MRA Mark



Certificate of Accreditation



Scope of Accreditation (Measurement Method)



Scope of Accreditation (Test Standards)

» VCCI Commissioned Testing Laboratories



TELEC (Telecom Engineering Center) - EMC Laboratory

URL : <https://www.telec.or.jp/>

Street address: 5-7-2 Yashio, Shinagawa-ku, Tokyo, Japan 140-0003

TELEC is a testing and accreditation body that performs Technical Regulations Conformity Certification and Construction Design Certification defined in the Radio Act, and technical standards conformity certification for terminal equipment as stipulated by the Telecommunications Business Law. It also tests (1) EMC for EU and FCC standards in the scope certified by the ISO/IEC 17025 laboratory, (2) radio, and (3) extremely low-power radio facilities as stipulated by the Radio Law. It also performs specified calibration of measuring instruments, testing for W-SUN certification, and SAR tests, tests WPT facilities and various facilities using high frequencies, and measures antenna characteristics and a variety of electromagnetic fields in open sites.



JQA (Japan Quality Assurance Organization) - Saito EMC Testing Laboratory

URL : <https://www.jqa.jp/>

Street address: 7-3-10 Saito-Asagi, Ibaraki-shi, Osaka-fu, Japan 567-0085

JQA is a fair and neutral third-party organization providing services such as: Inspection and registration of quality management systems such as ISO 9001 and environment management systems such as ISO 14001, EMC testing, product safety certification, measurement device calibration, and certification of daily-life service robots. The Saito laboratory is the biggest of JQA's EMC testing laboratories, and also deals with information, medical, and home appliances, and car- and ship-mounted equipment. JQA is also capable of testing radio equipment in Japan and overseas. JQA testing facilities are registered as qualified by VCCI and certified by VLAC and A2LA under ISO/IEC 17025.



KEC (Kansai Electronic Industry Development Center) - Testing Division

URL : <https://www.kec.jp/>

Street address: 3-2-2 Hikaridai, Seikacho, Sourakugun, Kyoto-fu, Japan 619-0237

This center is accredited as an ISO/IEC 17025 laboratory (by VLAC and JAB). The center performs EMC testing for home electrical appliances, industry and medical equipment, on-board electrical and electronic equipment for automobiles and planes, and defense-related equipment, as well as evaluation testing for radio equipment. The center has a diverse range of evaluation testing rooms including 11 anechoic chambers, 4 shielded rooms, and reverberation chambers, offering high-quality, reliable test results provided by iNARTE EMC engineers. In addition, KEC has JIS Q 17043 Proficiency Testing Scheme Provider Accreditation and offers highly-reliable EMC proficiency testing.



Intertek Japan - Kashima Testing Laboratory

URL : <https://intertekjp.com/>

Street address: 298-6 Sada, Kashima-shi, Ibaraki Prefecture, Japan 314-0027

Intertek Japan runs five testing sites in Japan, and is accredited by VLAC, NVLAP, and IECCE, among others. The laboratory provides EMC testing and accreditation for consumer, industry, medical, automobile, military, aviation, and telecommunications equipment, and specification and calibration services for various testing equipment. Intertek Japan also provides product safety testing, factory inspections, overseas safety certification, and various agent application and other services for telecommunications equipment. The Kashima laboratory, with its anechoic chamber and open site, has been engaged in EMC testing, mainly of consumer equipment, since 1984.



NOA Bldg.

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Participating organizations

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 Japan Business Machine and Information
 System Industries Association (JBMIA)
 Communications and Information network
 Association of Japan (CIAJ)

As of March 31, 2024

