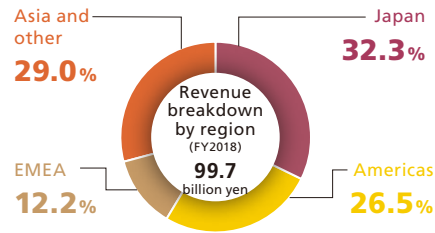
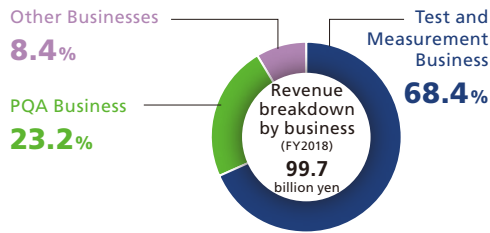


Business Summary



*EMEA: Europe, Middle East, Africa

Revenue/Operating profit	Field	Main customers
<p>Test and Measurement Business</p> <p>(billions of yen) (billions of yen)</p> <p>(FY) 2014 2015 2016 2017 2018 2019 (planned)</p> <p>■ Revenue (left axis) ● Operating profit (right axis)</p>	<p>Mobile market</p> <ul style="list-style-type: none"> • R&D of mobile communication standards, such as 5G and LTE • R&D of communication chipsets (communication semiconductors embedded in smartphones, etc.) • R&D and manufacturing of mobile devices, such as smartphones and tablets • Communication evaluation in the IoT/Automotive sector <p>Network infrastructure market</p> <ul style="list-style-type: none"> • R&D and manufacturing for optical and digital communications • R&D and manufacturing of communication equipment • Construction and maintenance of optical fiber communication networks • Construction and maintenance of wireless base stations • Network quality assurance (fault monitoring) <p>Electronics market</p> <ul style="list-style-type: none"> • General-purpose measurement used in a wide range of applications • R&D and manufacturing of communication-related electronic components • R&D and manufacturing of wireless communication devices • R&D and manufacturing of wireless base stations • R&D and manufacturing of smart appliances and vehicle-related equipment, etc. 	<ul style="list-style-type: none"> • Smartphone/tablet device manufacturers • EMS (electronics manufacturing services) • Chipset manufacturers • IT service providers • Telecommunications carriers • Manufacturers of automobiles and vehicle-related equipment • Telecommunications carriers • Communication-related construction companies • Communication equipment manufacturers • Electronic device/component manufacturers • Communication equipment manufacturers • Mobile device manufacturers • Electronic equipment manufacturers • Automobile and vehicle-related equipment manufacturers
<p>PQA Business</p> <p>(billions of yen) (billions of yen)</p> <p>(FY) 2014 2015 2016 2017 2018 2019 (planned)</p> <p>■ Revenue (left axis) ● Operating profit (right axis)</p> <p>*PQA: Product Quality Assurance</p>	<p>Quality assurance of food and pharmaceuticals</p> <ul style="list-style-type: none"> • Inspecting for contaminants, packaging form, etc. • Detection of metallic contaminants • Weighing and controlling filling weight • Checkweighing 	<ul style="list-style-type: none"> • Food manufacturers (Agricultural products, meat, processed food) • Pharmaceutical/cosmetics manufacturers (Tablets, capsules, liquids, and patches)
<p>Other Businesses</p> <p>(billions of yen) (billions of yen)</p> <p>(FY) 2014 2015 2016 2017 2018 2019 (planned)</p> <p>■ Revenue (left axis) ● Operating profit (right axis)</p>	<p>Data communication business</p> <ul style="list-style-type: none"> • Monitoring and control systems related to public infrastructure, such as rivers and waterworks • Bandwidth control devices for high-quality networks, such as financial systems and video distribution <p>Device business</p> <ul style="list-style-type: none"> • Optical/ultra-high-speed devices for optical communication networks and communication equipment 	<ul style="list-style-type: none"> • National and local governments • Financial institutions • Video distribution companies • Electric equipment manufacturers • Communication equipment manufacturers

* The method of allocating headquarters administration and other costs to each business segment was changed in FY2018, and the figures for FY2017 have been reclassified. Figures for FY2014 to FY2016 have not been reclassified.