

North America EMC Testing Market Forecast to 2030 - Regional Analysis - by Offering (Hardware & Software and Services), Service Type (Testing Services, Inspection Services, Certification Services, and Others), and End Use (Consumer Appliances & Electronics, Automotive, IT & Telecommunications, Medical, Industrial, Military & Aerospace, and Others)

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Abstracts

The North America EMC testing market was valued at US\$ 632.77 million in 2022 and is expected to reach US\$ 910.62 million by 2030; it is estimated to record a CAGR of 4.7% from 2022 to 2030.

Advancements in 5G Infrastructure Fuels North America EMC Testing Market

Electrical and electronic devices generate some form of unwanted interference/radiation that is unavoidable. As these gadgets are increasingly being used in proximity to one another, they are required to function normally without interfering with or being hampered by other devices. Thus, electromagnetic compatibility (EMC) is a critical feature of electrical and electronic devices. They require, however, release limited radiation and be impervious to a particular degree of electromagnetic radiation to ensure proper functioning. As different electronic devices play pivotal roles in the business environment, compliance demands pertaining to EMC and electromagnetic immunity (EMI) testing are becoming highly challenging with the introduction of new business rules. The ability of the EMC testing chamber(s) to be certified ensures that the items will be precisely measured for EMC approval. Certification services are expected to increase at a rapid pace during the forecast period. These services ensure the functionality and safety of products. They entail aspects such as safety and health,

quality, environment, social responsibility, and customized audits. Businesses buy certification services to bind to present processes to improve their business performance with testing. Thus, a surge in demand for certification services propels the electromagnetic compatibility (EMC) testing market growth.

North America EMC Testing Market Overview

The US, Canada, and Mexico are among the major economies in North America. Favorable economic and social conditions for the development and adoption of modern technologies, including supportive government policies, vast industrialization, developed infrastructure, and robust electronics industry, are driving the EMC testing market in North America. The consumer electronics industry is booming in the region due to the high adoption of devices such as smartphones, tablets, personal computers, HVAC systems, washing machines, and television sets. For instance, according to The White House report of August 2023, the electronics manufacturing sector invested US\$ 1.8 billion for the capacity expansion of computer and electronic products in 2022. The growing capacity expansion of computer and electronic products is increasing the adoption of EMC testing to identify the issues that affect the performance of electronic devices and systems. It also helps electronics manufacturers modify product designs by improving the reliability and performance of electronic devices and systems, which is expected to drive the EMC testing market during the forecast period. Moreover, the continuous progress in the adoption of 5G networks is creating strong opportunities for electromagnetic compatibility (EMC) testing market players. According to Ericsson's mobility report, North America has the second-largest penetration of 5G devices. Several network providers have already rolled out 5G services focusing on fixed wireless access (FWA) and mobile broadband. North America reached 35% of 5G subscription penetration in 2022 and is projected to have the highest 5G penetration of 91% by the end of 2028, which increases the demand for EMC testing in the telecommunication sector for achieving modulation, frequency band requirements, and field strength.

North America EMC Testing Market Revenue and Forecast to 2030 (US\$ Million)

North America EMC Testing Market Segmentation

The North America EMC testing market is segmented based on offering, service type, end use, and country. Based on offering, the North America EMC testing market is bifurcated into hardware & software and services. The hardware & software segment held a larger market share in 2022.

Based on service type, the North America EMC testing market is segmented into testing services, inspection services, certification services, and others. The testing services held the largest market share in 2022.

By end use, the North America EMC testing market is segmented into consumer appliances & electronics, automotive, IT & telecommunications, medical, industrial, military & aerospace, and others. The consumer appliances & electronics held the largest market share in 2022.

Based on country, the North America EMC testing market is segmented into the US, Canada, and Mexico. The US dominated the North America EMC testing market share in 2022.

Ametek Inc, Element Material Technology Group Ltd, Bureau Veritas SA, Eurofins Scientific SE, Intertek Group PLC, TUV Nord Group, Rohde & Schwarz GmbH & Co KG, SGS SA, TUV SUD AG, and UL LLC are some of the leading companies operating in the North America EMC testing market.

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