

Spectrometry Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029

Segmented By Type (Molecular Spectrometry, Mass Spectrometry (MS), Atomic Spectrometry), By Product (Instrument, Consumables, Services), By Application (Proteomics, Metabolomics, Pharmaceutical Analysis, Forensic Analysis, Others) Region and Competition

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Abstracts

Global Spectrometry Market was valued at USD 12.78 billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 6.56% through 2029. The Global Spectrometry Market has been experiencing significant growth and evolution, driven by advancements in analytical technologies, increasing research and development activities, and expanding applications across various industries. Spectrometry, the technique of analyzing the interaction between matter and electromagnetic radiation, plays a pivotal role in scientific research, pharmaceuticals, environmental monitoring, food safety, and other sectors. Key factors propelling the market include the growing demand for high-resolution and accurate analytical tools, rising concerns about food and environmental safety, and the continuous innovation in spectrometry technologies.

Mass spectrometry, chromatography, and nuclear magnetic resonance (NMR) spectroscopy are among the prominent spectrometry techniques contributing to the market's expansion. Mass spectrometry, in particular, has gained traction due to its ability to provide precise molecular information, making it invaluable in fields like proteomics and metabolomics. The pharmaceutical and biotechnology sectors are significant drivers of the spectrometry market, utilizing these technologies for drug discovery, development, and quality control processes.

Furthermore, the increasing emphasis on personalized medicine and the need for rapid and reliable analytical tools in clinical diagnostics have boosted the adoption of spectrometry in healthcare. The market has also witnessed a surge in demand from environmental testing laboratories, where spectrometry aids in detecting pollutants and ensuring regulatory compliance. Additionally, the integration of spectrometry with other technologies, such as artificial intelligence and machine learning, has enhanced data analysis capabilities, providing researchers with more comprehensive insights.

The Global Spectrometry Market is poised for continued growth, fueled by technological advancements, diverse applications across industries, and the global push for more accurate and efficient analytical solutions. As industries continue to prioritize precision and efficiency in their processes, spectrometry is likely to remain a cornerstone in scientific and industrial advancements.

Key Market Drivers

Advancements in Analytical Technologies

Advancements in analytical technologies have emerged as a driving force behind the unprecedented growth of the Global Spectrometry Market. Spectrometry, a fundamental technique in the realm of analytical sciences, has undergone a transformative evolution propelled by continuous innovations in technology. This paradigm shift in analytical capabilities is characterized by improvements in sensitivity, resolution, and speed, fundamentally altering the landscape of spectrometry applications across various industries.

Sensitivity, the ability to detect and quantify substances at lower concentrations, is a critical parameter for analytical techniques, especially in fields such as environmental monitoring, pharmaceuticals, and clinical diagnostics. Mass spectrometry, a cornerstone of spectrometry technologies, has witnessed remarkable improvements in sensitivity, enabling the detection of compounds at trace levels. This enhanced sensitivity not only broadens the scope of analytes that can be identified but also facilitates the analysis of complex samples with greater accuracy.

Resolution, another pivotal aspect of analytical technologies, defines the ability to distinguish between closely related compounds or spectral peaks. Advancements in resolution are particularly pertinent in disciplines like proteomics and metabolomics, where intricate molecular structures necessitate precise analytical tools. Mass

spectrometry, in particular, has seen significant strides in achieving high resolution, enabling researchers to unravel complex molecular interactions and identify subtle variations in biomolecules. This increased resolution contributes to a more comprehensive understanding of biological systems and facilitates targeted and nuanced analyses.

The speed at which analytical results are generated has become a key criterion in modern research and industry. Analytical technologies, including spectrometry, are continually pushing the boundaries of speed, driven by the demand for high-throughput screening and rapid data acquisition. This acceleration in analysis time is crucial in applications such as drug discovery, where the timely identification of potential compounds is imperative. The development of faster and more efficient spectrometry instruments not only expedites research processes but also enhances productivity across diverse industries.

Chromatography, another integral component of the spectrometry landscape, has not been immune to these technological advancements. High-performance liquid chromatography (HPLC) and gas chromatography (GC), coupled with mass spectrometry, have become powerful analytical tools. Innovations in chromatographic techniques have focused on improving separation efficiency, reducing analysis times, and enhancing the overall robustness of the systems. These improvements contribute to the accuracy and reliability of spectrometric analyses, making them indispensable in laboratories worldwide.

Expanding Applications across Industries

The Global Spectrometry Market is experiencing a remarkable surge in growth, propelled by the expanding applications of spectrometry across a diverse array of industries. Spectrometry, a powerful analytical technique, has transcended its traditional boundaries, finding versatile applications that span pharmaceuticals, biotechnology, environmental monitoring, food safety, clinical diagnostics, and beyond. This broadening scope of applications is a testament to the adaptability and efficacy of spectrometry technologies, making them indispensable tools in the modern industrial landscape.

In the pharmaceutical and biotechnology sectors, spectrometry has assumed a central role in drug discovery, development, and quality control processes. The precise molecular analysis capabilities of mass spectrometry, chromatography, and nuclear magnetic resonance (NMR) spectroscopy are instrumental in identifying and

characterizing compounds, ensuring the integrity of pharmaceutical products, and expediting the drug development pipeline. The demand for high-throughput screening and accurate analytical tools in these industries has significantly contributed to the growth of the spectrometry market.

Environmental monitoring represents another pivotal domain where spectrometry is making significant inroads. Governments and regulatory bodies worldwide are intensifying efforts to address environmental concerns and enforce stringent standards for pollution control. Spectrometry's ability to detect and analyze pollutants, contaminants, and hazardous substances at trace levels aligns perfectly with these regulatory requirements. From air and water quality assessments to soil analysis, spectrometry technologies play a crucial role in safeguarding the environment and ensuring compliance with environmental regulations.

Food safety has emerged as a paramount concern globally, and spectrometry is at the forefront of ensuring the quality and safety of food products. The ability to detect contaminants, pesticides, and adulterants in food samples with high precision makes spectrometry an invaluable tool in the food industry. Whether analyzing the composition of ingredients, identifying allergens, or ensuring compliance with food safety standards, spectrometry technologies contribute to the transparency and reliability of the food supply chain.

Clinical diagnostics and healthcare research have witnessed a paradigm shift with the increasing adoption of spectrometry. The emphasis on personalized medicine, wherein treatment plans are tailored to individual patients based on their molecular profiles, has heightened the importance of spectrometry in healthcare. Spectrometry techniques, particularly mass spectrometry, play a pivotal role in analyzing biomarkers, metabolites, and other molecular information critical for diagnostic purposes. The non-invasive nature of spectrometry and its ability to provide detailed insights into complex biological systems make it an essential tool in advancing medical research and improving patient outcomes.

Rising Concerns about Food and Environmental Safety

The Global Spectrometry Market is experiencing a substantial boost, propelled by the escalating concerns regarding food and environmental safety. As the global population burgeons, so does the demand for safe and secure food supplies, necessitating rigorous monitoring and analysis of food products. Simultaneously, the increasing awareness of environmental issues has led to a growing emphasis on the detection and

analysis of pollutants, contaminants, and hazardous substances to safeguard ecosystems and public health. In this context, spectrometry has emerged as a critical tool, providing precise and reliable analytical solutions that address the intricate challenges posed by food and environmental safety.

The global food industry faces unprecedented challenges in ensuring the safety and quality of the products reaching consumers. Spectrometry technologies, such as mass spectrometry and chromatography, have become indispensable instruments in this endeavor. Contaminants, pesticides, additives, and adulterants can compromise the safety of food products, leading to health hazards. Spectrometry's ability to detect and quantify these substances at trace levels offers a robust means of quality control and ensures compliance with stringent food safety standards. From analyzing the composition of raw materials to identifying potential allergens, spectrometry is instrumental in providing a comprehensive and accurate assessment of food products throughout the supply chain.

Environmental safety concerns have become increasingly prominent on the global stage, driven by the recognition of the profound impact of human activities on ecosystems and natural resources. Spectrometry plays a pivotal role in addressing these concerns by enabling the detection and analysis of environmental pollutants, including air and water contaminants, soil pollutants, and hazardous waste. Regulatory bodies worldwide are implementing stringent standards to curb pollution and protect ecosystems, and spectrometry technologies are at the forefront of ensuring compliance. The ability to identify and quantify pollutants with high sensitivity and precision positions spectrometry as a vital tool in environmental monitoring and remediation efforts.

Water quality assessment is a key application where spectrometry contributes significantly to environmental safety. The analysis of water samples for contaminants such as heavy metals, pesticides, and industrial chemicals is crucial for ensuring safe drinking water and preserving aquatic ecosystems. Spectrometry techniques, including inductively coupled plasma mass spectrometry (ICP-MS) and liquid chromatography-mass spectrometry (LC-MS), offer unparalleled sensitivity and accuracy in detecting trace levels of contaminants, making them invaluable tools for water quality analysis.

Key Market Challenges

High Initial Costs

High initial costs stand as a formidable obstacle hindering the widespread adoption and

growth of the Global Spectrometry Market. Spectrometry, a powerful analytical technique used in various industries for molecular analysis, faces a challenge in gaining traction due to the substantial upfront investments required for acquiring and implementing spectrometry instruments.

In industries such as pharmaceuticals, biotechnology, environmental monitoring, and healthcare, where spectrometry plays a crucial role, the cost of acquiring state-of-the-art spectrometry equipment can be prohibitive for many organizations, particularly smaller enterprises and research institutions with limited budgets. The sophisticated nature of spectrometry instruments, especially high-end mass spectrometers and advanced chromatography systems, contributes significantly to the elevated initial costs.

The need for precision and high-performance capabilities in spectrometry instruments, driven by the complexity and sensitivity of modern analytical requirements, often results in the development and manufacturing of sophisticated and technologically advanced systems. These cutting-edge technologies come at a price, making the initial capital investment a substantial barrier for entry or expansion within the market.

Moreover, the costs extend beyond the purchase of the instrument itself. Training personnel to operate and maintain these sophisticated systems, as well as ongoing expenses related to consumables, maintenance, and software updates, further contribute to the financial burden associated with adopting spectrometry technologies. This comprehensive cost structure can dissuade potential users from investing in spectrometry, particularly in regions or industries where budget constraints are prevalent.

Complexity of Instrumentation

The Global Spectrometry Market faces a significant challenge stemming from the complexity of instrumentation. Spectrometry, a powerful analytical technique widely used across various industries for molecular analysis, encounters obstacles related to the intricate nature of the instruments involved. The sophisticated design and intricacy of spectrometry equipment pose challenges for users in terms of operation, maintenance, and overall accessibility.

One aspect of the complexity issue revolves around the intricate nature of the instrumentation itself. High-end spectrometry instruments, such as mass spectrometers and advanced chromatography systems, are equipped with intricate components and advanced technologies to meet the demands of modern analytical applications. The

complexity is inherent in the need for precision, sensitivity, and high-performance capabilities to analyze diverse samples with accuracy.

The operation of these sophisticated instruments often requires specialized knowledge and training, creating a barrier for potential users who may lack the expertise to fully utilize the capabilities of the equipment. This complexity can be a hindrance, especially in academic and research settings where personnel may have diverse backgrounds and may not possess the extensive training needed to operate such advanced instruments effectively.

Maintenance of complex spectrometry instruments is another critical aspect contributing to the challenge. Routine maintenance and troubleshooting may require skilled technicians, and the intricacies involved can lead to extended downtime if issues arise. The costs associated with maintaining and servicing these advanced instruments can further strain budgets, particularly for smaller research institutions and laboratories.

Key Market Trends

Increasing Applications in Pharmaceutical and Biotechnology Sectors

The Global Spectrometry Market is experiencing a significant boost, driven by the increasing applications of spectrometry in the pharmaceutical and biotechnology sectors. Spectrometry, particularly mass spectrometry, has become an indispensable tool in various facets of drug discovery, development, and quality control processes. The pharmaceutical industry relies on spectrometry techniques to unravel the complex molecular structures of compounds, identify potential drug candidates, and ensure the integrity and purity of pharmaceutical products.

In drug discovery, spectrometry plays a pivotal role in the analysis of compounds at the molecular level, providing researchers with detailed information about their structure, composition, and properties. This analytical precision is crucial in identifying lead compounds, understanding their pharmacokinetics, and predicting their behavior in biological systems. The ability of mass spectrometry to analyze complex mixtures and quantify compounds with high sensitivity makes it an invaluable asset in the early stages of drug development.

Throughout the drug development pipeline, from preclinical studies to clinical trials, spectrometry techniques contribute to the characterization and validation of pharmaceutical compounds. The stringent regulatory requirements in the

pharmaceutical industry necessitate accurate and reliable analytical methods, and spectrometry, with its advanced capabilities, meets these demands effectively. The identification of impurities, determination of drug concentrations, and verification of product quality are among the critical applications of spectrometry in ensuring the safety and efficacy of pharmaceutical products.

In the biotechnology sector, spectrometry is integral to the analysis of biomolecules such as proteins, peptides, and nucleic acids. Proteomics and metabolomics studies leverage mass spectrometry for the identification and quantification of proteins and metabolites, providing insights into cellular functions and disease mechanisms. The ability to analyze complex biological samples with high throughput and precision positions spectrometry as a cornerstone in advancing biotechnological research.

Moreover, spectrometry techniques contribute significantly to the quality control processes in biopharmaceutical manufacturing. The analysis of biologics, including monoclonal antibodies and therapeutic proteins, involves ensuring the purity, stability, and structural integrity of these complex molecules. Mass spectrometry, with its ability to provide detailed structural information, is instrumental in verifying the identity and post-translational modifications of biopharmaceuticals, meeting the stringent requirements of regulatory authorities.

Growing Embrace of Ambient Ionization Techniques

The Global Spectrometry Market is experiencing a notable surge, fueled by the growing embrace of ambient ionization techniques. Ambient ionization represents a paradigm shift in spectrometry, offering real-time analysis of samples without the need for extensive sample preparation. Unlike traditional ionization methods that require vacuum conditions, ambient ionization allows for the direct analysis of samples in their native state, streamlining workflows and accelerating analytical processes.

Sample preparation is a time-consuming and resource-intensive step in traditional spectrometry methods. With ambient ionization, samples can be analyzed without the need for complex extraction, derivatization, or chromatographic separations. This not only reduces the overall analysis time but also minimizes the potential for sample degradation or alteration, preserving the integrity of the analytical results.

The versatility of ambient ionization techniques is another factor contributing to their widespread acceptance. Techniques such as direct analysis in real-time (DART), desorption electrospray ionization (DESI), and laser ablation electrospray ionization

(LAESI) cater to diverse applications across industries. From forensics and environmental monitoring to clinical diagnostics and food safety, ambient ionization enables rapid and on-site analysis, providing valuable insights for decision-making in real-world scenarios.

The accessibility and ease of use associated with ambient ionization techniques make spectrometry more approachable for a broader user base. The simplified operational requirements and reduced need for specialized training enable users with varying levels of expertise to leverage the benefits of spectrometry. This democratization of analytical capabilities has implications for industries where routine and rapid analyses are essential, expanding the reach of spectrometry beyond traditional laboratory settings.

Furthermore, ambient ionization techniques contribute to the conservation of resources by minimizing the consumption of solvents and reducing waste generation associated with sample preparation. The environmental sustainability aspect aligns with the growing global emphasis on green analytical chemistry practices, making ambient ionization techniques attractive from both efficiency and eco-friendly perspectives.

Segmental Insights

Type Insights

Molecular spectrometry emerged as the dominant force in the market, claiming the largest share of revenue in 2023. This can be attributed to its widespread application in the life science industries and the availability of technologically advanced products. One notable player in this arena is PerkinElmer, Inc., which provides a comprehensive range of instruments, accessories, consumables, and software in the field of molecular spectroscopy. Their offerings include infrared spectroscopy, fluorescence spectroscopy, ultraviolet-visible (UV-Vis) spectroscopy, and FT-IR microscopy and imaging systems.

The popularity of molecular spectroscopy has soared, especially in biotechnology, pharmaceutical, and forensic industries. This is due to innovations in infrared spectroscopy systems that enhance efficiency and reduce overall process costs. A study from June 2020 highlighted the utilization of near-infrared (NIR) spectroscopy for analyzing body fluids, distinguishing between normal and cancerous tissues, and various other bio-applications.

The Mass Spectrometry (MS) segment is poised for lucrative growth throughout the forecast period. MS serves as a powerful tool widely used for analyzing a diverse range

of molecules in forensic, biotechnology, pharmaceuticals, and clinical research. Advances in mass spectroscopy processes have facilitated the swift delivery of test results with high resolution.

As an illustration, in December 2020, Thermo Fisher introduced the Neoma multi-collector ICP-MS, an Inductively Coupled Plasma MS (ICP-MS) instrument. This product is anticipated to assist researchers in conducting reliable and highly accurate isotope ratio analysis for multiple research applications.

Product Insights

The category of instruments emerged as the market leader, capturing the highest revenue share in 2023. This significant share is attributed to the expanded utilization of spectrometry in biotechnology. Notably, researchers have recently identified 27 biomarkers using MS, aiding in predicting illness severity and designing therapies. MS is also employed in proteomic analysis for characterizing adoptive cell therapies in cancer treatment, such as CAR-T cell therapy, which is expected to contribute substantially to this segment's share during the forecast period.

The growing demand for spectrometers across various life science fields is poised to create lucrative opportunities for companies providing spectrometry services. Moreover, the persistent competitive landscape among private players is expected to drive the growth of the services segment in the forecast period. Major players like Charles River Laboratories offer a diverse range of analytical services using the MS technique.

Regional Insights

North America emerged as the dominant player in the Global Spectrometry Market in 2023, holding the largest market share. The presence of a well-established and technologically advanced healthcare and pharmaceutical sector in North America significantly drove the demand for spectrometry applications, particularly in drug discovery, clinical diagnostics, and biomedical research. The region's commitment to innovation, coupled with substantial investments in research and development, further propelled the adoption of advanced spectrometry instruments. Additionally, North America's leadership in environmental regulations and standards heightened the need for sophisticated analytical techniques, including spectrometry, in environmental monitoring and safety compliance. The region's stringent quality control measures in food safety, industrial processes, and forensic analysis also contributed to the dominance of the spectrometry market.

Key Market Players

Thermo Fisher Scientific, Inc

PerkinElmer, Inc.

Agilent Technologies

Waters Corporation

Shimadzu Corporation

Bruker Corporation

JEOL Ltd.

FLIR Systems, Inc.

Endress+Hauser Group

MKS Instruments, Inc.

Report Scope:

In this report, the Global Spectrometry Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Spectrometry Market, By Type:

Molecular Spectrometry

Mass Spectrometry (MS)

Atomic Spectrometry

???????%li%Spectrometry Market, By Product:

Instrument

Consumables

Services

????%li%Spectrometry Market, By Application:

Proteomics

Metabolomics

Pharmaceutical Analysis

Forensic Analysis

Others

Spectrometry Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Spectrometry Market.

Available Customizations:

Spectrometry Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By T...

Global Spectrometry Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. GLOBAL SPECTROMETRY MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Type (Molecular Spectrometry, Mass Spectrometry (MS), Atomic Spectrometry)
 - 4.2.2. By Product (Instrument, Consumables, Services)
 - 4.2.3. By Application (Proteomics, Metabolomics, Pharmaceutical Analysis, Forensic Analysis, Others)
 - 4.2.4. By Region
 - 4.2.5. By Company (2023)

4.3. Market Map

4.3.1. By Type

4.3.2. By Product

4.3.3. By Application

4.3.4. By Region

5. ASIA PACIFIC SPECTROMETRY MARKET OUTLOOK

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Type

5.2.2. By Product

5.2.3. By Application

5.2.4. By Country

5.3. Asia Pacific: Country Analysis

5.3.1. China Spectrometry Market Outlook

5.3.1.1. Market Size & Forecast

5.3.1.1.1. By Value

5.3.1.2. Market Share & Forecast

5.3.1.2.1. By Type

5.3.1.2.2. By Product

5.3.1.2.3. By Application

5.3.2. India Spectrometry Market Outlook

5.3.2.1. Market Size & Forecast

5.3.2.1.1. By Value

5.3.2.2. Market Share & Forecast

5.3.2.2.1. By Type

5.3.2.2.2. By Product

5.3.2.2.3. By Application

5.3.3. Australia Spectrometry Market Outlook

5.3.3.1. Market Size & Forecast

5.3.3.1.1. By Value

5.3.3.2. Market Share & Forecast

5.3.3.2.1. By Type

5.3.3.2.2. By Product

5.3.3.2.3. By Application

5.3.4. Japan Spectrometry Market Outlook

5.3.4.1. Market Size & Forecast

- 5.3.4.1.1. By Value
- 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Type
 - 5.3.4.2.2. By Product
 - 5.3.4.2.3. By Application
- 5.3.5. South Korea Spectrometry Market Outlook
 - 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
 - 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Type
 - 5.3.5.2.2. By Product
 - 5.3.5.2.3. By Application

6. EUROPE SPECTROMETRY MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Type
 - 6.2.2. By Product
 - 6.2.3. By Application
 - 6.2.4. By Country
- 6.3. Europe: Country Analysis
 - 6.3.1. France Spectrometry Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Type
 - 6.3.1.2.2. By Product
 - 6.3.1.2.3. By Application
 - 6.3.2. Germany Spectrometry Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Type
 - 6.3.2.2.2. By Product
 - 6.3.2.2.3. By Application
 - 6.3.3. Spain Spectrometry Market Outlook
 - 6.3.3.1. Market Size & Forecast

- 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Type
 - 6.3.3.2.2. By Product
 - 6.3.3.2.3. By Application
- 6.3.4. Italy Spectrometry Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Type
 - 6.3.4.2.2. By Product
 - 6.3.4.2.3. By Application
- 6.3.5. United Kingdom Spectrometry Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Type
 - 6.3.5.2.2. By Product
 - 6.3.5.2.3. By Application

7. NORTH AMERICA SPECTROMETRY MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Type
 - 7.2.2. By Product
 - 7.2.3. By Application
 - 7.2.4. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States Spectrometry Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Type
 - 7.3.1.2.2. By Product
 - 7.3.1.2.3. By Application
 - 7.3.2. Mexico Spectrometry Market Outlook
 - 7.3.2.1. Market Size & Forecast

- 7.3.2.1.1. By Value
- 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Type
 - 7.3.2.2.2. By Product
 - 7.3.2.2.3. By Application
- 7.3.3. Canada Spectrometry Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Type
 - 7.3.3.2.2. By Product
 - 7.3.3.2.3. By Application

8. SOUTH AMERICA SPECTROMETRY MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Type
 - 8.2.2. By Product
 - 8.2.3. By Application
 - 8.2.4. By Country
- 8.3. South America: Country Analysis
 - 8.3.1. Brazil Spectrometry Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Type
 - 8.3.1.2.2. By Product
 - 8.3.1.2.3. By Application
 - 8.3.2. Argentina Spectrometry Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Type
 - 8.3.2.2.2. By Product
 - 8.3.2.2.3. By Application
 - 8.3.3. Colombia Spectrometry Market Outlook
 - 8.3.3.1. Market Size & Forecast

- 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Type
 - 8.3.3.2.2. By Product
 - 8.3.3.2.3. By Application

9. MIDDLE EAST AND AFRICA SPECTROMETRY MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Type
 - 9.2.2. By Product
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. MEA: Country Analysis
 - 9.3.1. South Africa Spectrometry Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Type
 - 9.3.1.2.2. By Product
 - 9.3.1.2.3. By Application
 - 9.3.2. Saudi Arabia Spectrometry Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Type
 - 9.3.2.2.2. By Product
 - 9.3.2.2.3. By Application
 - 9.3.3. UAE Spectrometry Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Type
 - 9.3.3.2.2. By Product
 - 9.3.3.2.3. By Application
 - 9.3.4. Egypt Spectrometry Market Outlook
 - 9.3.4.1. Market Size & Forecast

- 9.3.4.1.1. By Value
- 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Type
 - 9.3.4.2.2. By Product
 - 9.3.4.2.3. By Application

10. MARKET DYNAMICS

- 10.1. Drivers
- 10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

- 11.1. Recent Developments
- 11.2. Product Launches
- 11.3. Mergers & Acquisitions

12. GLOBAL SPECTROMETRY MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

14. COMPETITIVE LANDSCAPE

- 14.1. Thermo Fisher Scientific, Inc
 - 14.1.1. Business Overview
 - 14.1.2. Company Snapshot
 - 14.1.3. Products & Services
 - 14.1.4. Financials (In case of listed)
 - 14.1.5. Recent Developments
 - 14.1.6. SWOT Analysis
- 14.2. PerkinElmer, Inc.
- 14.3. Agilent Technologies
- 14.4. Waters Corporation

- 14.5. Shimadzu Corporation
- 14.6. Bruker Corporation
- 14.7. JEOL Ltd.
- 14.8. FLIR Systems, Inc.
- 14.9. Endress+Hauser Group
- 14.10. MKS Instruments, Inc.

15. STRATEGIC RECOMMENDATIONS

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