

Ultra-Low Phase Noise RF Signal Generator Market by Form Factor (Benchtop, Portable, Modular), Type, Application (Radar Systems, Component Testing Equipment, Communication Systems), End Use and Region - Global Forecast to 2027

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Abstracts

The ultra-low phase noise RF signal generator market is projected to grow from USD 153 million in 2022 to USD 232 million by 2027; it is expected to grow at a CAGR of 8.7% from 2022 to 2027. Some major factors driving the market growth include the increasing need for testing electronic components or devices to ensure their high performance and accuracy. Wireless communication devices (including 5G-enabled devices), sensors, and touch displays are among a few critical components that require precise testing to measure sensitivity, performance, scalability, throughput, and capacity before mass production.

“Requirement for high-performance and mission-critical designs of next-generation aircraft to provide growth opportunities in aerospace and defense vertical.”

The aerospace and defence vertical require uncompromising high-precision signals for many of its operational assets to withstand harsh environmental conditions. Radar systems, radio monitoring systems, and satellite systems deployed in aircraft or military vehicles for tracking the position and velocity of targets in noisy environments, as well as for secure and long-distance communication, need to comply with stringent standards to achieve high-performance, reliable, and mission-critical designs. Numerous components such as radar and navigation systems, electronic countermeasures (ECMs), electronic counter-countermeasures (ECCMs), communications systems, and a variety of sensors are increasingly adopted to install in military and aerospace equipment. Testing all these components requires a high level of

accuracy; hence, the use of ultra-low phase noise RF signal generators has become highly essential to ensure the operational success of next-generation aircraft.

“Modular type ultra-low phase noise RF signal generator to witness higher growth due to its suitability for applications that require fast and high-quality measurements.”

Modular signal generators are ideal for applications that require fast and high-quality measurements, such as high-volume manufacturing, where quality control, product conformance, and test optimization are essential parameters. Modular equipment is available in multiple architectural designs, such as PXI, AXIe, and PCI Express. Keysight offers software-enabled and PXI-integrated RF test equipment, which are used to create an application-specific modular solution. PXI signal generators are built for applications that require multi-channel measurement capabilities, measurement speed, and a small footprint. They provide scalability and flexibility and create test systems with a shared processor, chassis, and other modular instruments. Keysight's modular PXI signal generators offer an additional benefit of measurement consistency with signal generators used on the bench and throughout the product development cycle.

“Synthesized RF signal generators likely to dominate the market during the forecast period.”

Synthesized RF ultra-low phase noise RF signal generators are expected to dominate the market during the forecast period. The segment held largest market share in 2021 and is likely to continue to lead the market throughout the forecast period due to the increasing use of this technology in high-speed, high-volume production testing. These signal generators also provide an extremely high level of accuracy with acceptable phase noise. Synthesized RF signal generators are available in two types—phase-locked loop (PLL) synthesizer and direct digital synthesizer (DDS). Phase locked loop synthesizers are deployed in most RF signal generators as they enable signals to be generated over a wide range of frequencies with low spurious signals. Phase locked loop synthesizer technology is well developed and enables the development of high-performance RF signal generators.

“Ultra-low phase noise RF signal generators market for communication application to witness highest growth rate between 2022 and 2027”

The demand for wireless products having diverse capabilities has surged to a great extent recently. Wireless technology is adopted for several applications, including remote utility reading and telephone services for entire neighbourhoods, paging,

cellular, and satellite global positioning systems. Most RF signal generators, including ultra-low phase noise RF signal generators, are used in testing communication systems for their amplitude modulation (AM), frequency modulation (FM), and pulse modulation (PM) capabilities. Increasing use of signal generators in testing digital wireless communication applications, and rising use of the 5G cellular network (local 5G/IoT) in telecom and non-telecom fields owing to its higher speed and lower latency (local 5G, IoT) is expected to boost the demand for ultra-low phase noise RF signal generators in the coming years.

A variety of executives from key organizations operating in the ultra-low phase noise RF signal generators market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.

By Company Type: Tier 1-20%, Tier 2-45%, and Tier 3-35%

By Designation: C-Level Executives-35%, Managers-25%, and Others- 40%

By Region: North America-45%, Asia Pacific - 20%, Europe-25%, and RoW -10%

Anritsu Corporation (Japan), Rohde & Schwarz (Germany), Keysight Technologies (US), Berkeley Nucleonics (US), B&K Precision Corporation (US), Tabor Electronics (Israel), and AnaPico AG (Switzerland) are the key players in the ultra-low phase noise RF signal generators market. These top players have strong portfolios of products and services and a presence in both mature and emerging markets.

The study includes an in-depth competitive analysis of these key players in the ultra-low phase noise RF signal generators market, with their company profiles, recent developments, and key market strategies.

Research Coverage

The report defines, describes, and forecasts the ultra-low phase noise RF signal generators market based on technology, data rate, channel, insulating material, application, vertical, and geography. It provides detailed information regarding factors such as drivers, restraints, opportunities, and challenges influencing the growth of the ultra-low phase noise RF signal generators market. It also analyzes competitive developments such as product launches, acquisitions, expansions, contracts,

partnerships, and developments carried out by the key players to grow in the market.

Key Benefits of Buying the Report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall ultra-low phase noise RF signal generators market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS AND EXCLUSIONS
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
- FIGURE 1 MARKET SEGMENTATION
- 1.3.2 GEOGRAPHIC SCOPE
- 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNIT CONSIDERED
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
- FIGURE 2 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET:
RESEARCH DESIGN
 - 2.1.1 SECONDARY AND PRIMARY RESEARCH
 - 2.1.2 SECONDARY DATA
 - 2.1.2.1 List of key secondary sources
 - 2.1.2.2 Key data from secondary sources
 - 2.1.3 PRIMARY DATA
 - 2.1.3.1 Breakdown of primaries
 - 2.1.3.2 List of key primary interview participants
 - 2.1.3.3 Key data from primary sources
 - 2.1.3.4 Key industry insights
- 2.2 FACTOR ANALYSIS
- FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: SUPPLY-SIDE ANALYSIS
– REVENUES GENERATED BY COMPANIES THROUGH SELLING ULTRA-LOW
PHASE NOISE RF SIGNAL GENERATORS AND RELATED PRODUCTS
- FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: DEMAND-SIDE ANALYSIS
- 2.3 MARKET SIZE ESTIMATION
 - 2.3.1 BOTTOM-UP APPROACH
- FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 7 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: DATA TRIANGULATION

2.5 RESEARCH ASSUMPTIONS

TABLE 1 KEY ASSUMPTIONS: MACRO- AND MICRO-ECONOMIC ENVIRONMENT

2.6 RISK ASSESSMENT

TABLE 2 RISK ASSESSMENT: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATORS MARKET

3 EXECUTIVE SUMMARY

FIGURE 8 GLOBAL ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, 2018–2027 (USD MILLION)

FIGURE 9 INFORMATION AND COMMUNICATION TECHNOLOGY SEGMENT TO HOLD LARGEST MARKET SHARE FROM 2022 TO 2027

FIGURE 10 COMPONENT TESTING SEGMENT TO CAPTURE MAJORITY OF MARKET SHARE IN 2027

FIGURE 11 BENCHTOP ULTRA-LOW PHASE NOISE RF SIGNAL GENERATORS TO HOLD LARGEST MARKET SHARE THROUGHOUT FORECAST PERIOD

FIGURE 12 SYNTHESIZED RF SIGNAL GENERATORS TO DOMINATE MARKET FROM 2022 TO 2027

FIGURE 13 ASIA PACIFIC TO BE FASTEST-GROWING MARKET FOR ULTRA-LOW PHASE NOISE RF SIGNAL GENERATORS DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET

FIGURE 14 ADOPTION OF 5G AND WIRELESS COMMUNICATION TECHNOLOGIES DRIVES MARKET GROWTH

4.2 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION

FIGURE 15 COMPONENT TESTING EQUIPMENT SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE THROUGHOUT FORECAST PERIOD

4.3 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR

FIGURE 16 BENCHTOP ULTRA-LOW PHASE NOISE RF SIGNAL GENERATORS TO

CAPTURE LARGEST MARKET SHARE IN 2027

4.4 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE
FIGURE 17 INFORMATION AND COMMUNICATION TECHNOLOGY TO DOMINATE
ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET THROUGHOUT
FORECAST PERIOD

4.5 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY TYPE
FIGURE 18 SYNTHESIZED RF SIGNAL GENERATORS TO HOLD LARGER MARKET
SHARE THAN FREE RUNNING RF SIGNAL GENERATORS IN 2027

4.6 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION
FIGURE 19 ASIA PACIFIC TO BE LARGEST MARKET FOR ULTRA-LOW PHASE
NOISE RF SIGNAL GENERATORS FROM 2022 TO 2027

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 20 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES FOR
ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET

5.2.1 DRIVERS

5.2.1.1 Rising adoption of smart and 5G-enabled devices

5.2.1.2 Increasing demand for portable and handheld RF signal generators

5.2.1.3 Surging utilization of synthesized RF signal generators

FIGURE 21 IMPACT ANALYSIS OF DRIVERS ON ULTRA-LOW PHASE NOISE RF
SIGNAL GENERATOR MARKET

5.2.2 RESTRAINTS

5.2.2.1 High synchronization cost of multiple signal generators employed to analyze
CA system performance

FIGURE 22 IMPACT ANALYSIS OF RESTRAINTS ON ULTRA-LOW PHASE NOISE
RF SIGNAL GENERATOR MARKET

5.2.3 OPPORTUNITIES

5.2.3.1 Growing use of RF technology in testing automotive systems

5.2.3.2 Increasing utilization of RF signal generators in aerospace and defense
applications

FIGURE 23 IMPACT ANALYSIS OF OPPORTUNITIES ON ULTRA-LOW PHASE
NOISE RF SIGNAL GENERATOR MARKET

5.2.4 CHALLENGES

5.2.4.1 Longer time required for research and development of new communication
technologies

FIGURE 24 IMPACT ANALYSIS OF CHALLENGES ON ULTRA-LOW PHASE NOISE

RF SIGNAL GENERATOR MARKET

5.3 VALUE CHAIN ANALYSIS

FIGURE 25 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM

TABLE 3 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: ECOSYSTEM

FIGURE 26 KEY PLAYERS IN ECOSYSTEM

5.5 PRICING ANALYSIS

FIGURE 27 AVERAGE SELLING PRICE OF RF SIGNAL GENERATORS WITH DIFFERENT FREQUENCY RANGES, BY END USE

TABLE 4 AVERAGE SELLING PRICE OF RF SIGNAL GENERATORS WITH DIFFERENT FREQUENCY RANGES FOR TOP THREE END USES (USD THOUSAND)

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 28 REVENUE SHIFT FOR ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET PLAYERS

5.7 KEY TECHNOLOGY TRENDS

5.7.1 TREND OF MODULAR TEST INSTRUMENTS

5.7.2 ADVENT OF MULTI-ANTENNA TECHNIQUES

TABLE 5 MULTI-ANTENNA TECHNIQUES, BY APPLICATION

5.8 PORTER'S FIVE FORCES ANALYSIS

FIGURE 29 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 30 IMPACT OF PORTER'S FIVE FORCES ON ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET

TABLE 6 IMPACT OF PORTER'S FIVE FORCES ON ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET

5.8.1 THREAT OF NEW ENTRANTS

5.8.2 THREAT OF SUBSTITUTES

5.8.3 BARGAINING POWER OF SUPPLIERS

5.8.4 BARGAINING POWER OF BUYERS

5.8.5 INTENSITY OF COMPETITIVE RIVALRY

5.9 KEY STAKEHOLDERS AND BUYING CRITERIA

5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 31 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END USES

TABLE 7 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 END USES (%)

5.9.2 BUYING CRITERIA

FIGURE 32 KEY BUYING CRITERIA FOR TOP 3 END USES

TABLE 8 KEY BUYING CRITERIA FOR TOP 3 END USERS

5.10 TRADE ANALYSIS

TABLE 9 IMPORT DATA FOR SIGNAL GENERATORS, HS CODE: 854320 (USD MILLION)

FIGURE 33 SIGNAL GENERATORS, IMPORT VALUES FOR MAJOR COUNTRIES, 2017–2021

TABLE 10 EXPORT DATA FOR SIGNAL GENERATORS, HS CODE: 854320 (USD MILLION)

FIGURE 34 SIGNAL GENERATORS, EXPORT VALUES FOR MAJOR COUNTRIES, 2017–2021

5.11 PATENT ANALYSIS

FIGURE 35 NUMBER OF PATENTS GRANTED FOR ULTRA-LOW PHASE NOISE RF SIGNAL GENERATORS, 2011–2021

FIGURE 36 GEOGRAPHIC ANALYSIS OF PATENTS GRANTED FOR RF SIGNAL GENERATORS, 2011–2021

TABLE 11 LIST OF FEW PATENTS IN ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, 2020–2022

5.12 KEY CONFERENCES AND EVENTS, 2022–2024

5.12.1 DETAILED LIST OF CONFERENCES AND EVENTS

5.13 TARIFF AND REGULATORY LANDSCAPE

5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 12 LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13.2 CODES AND STANDARDS RELATED TO RF SIGNAL GENERATORS

TABLE 13 CODES AND STANDARDS RELATED TO RF SIGNAL GENERATORS

6 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR

6.1 INTRODUCTION

TABLE 14 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2018–2021 (USD MILLION)

FIGURE 37 PORTABLE ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 15 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2022–2027 (USD MILLION)

6.2 BENCHTOP

6.2.1 HIGH-PERFORMANCE AND COST-EFFECTIVE SOLUTIONS

TABLE 16 BENCHTOP: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 17 BENCHTOP: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

6.3 PORTABLE

6.3.1 SUITABLE FOR AEROSPACE AND DEFENSE AND R&D LABORATORY APPLICATIONS

TABLE 18 PORTABLE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

FIGURE 38 ASIA PACIFIC TO WITNESS HIGHEST CAGR IN PORTABLE ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET FROM 2022 TO 2027

TABLE 19 PORTABLE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

6.4 MODULAR

6.4.1 IDEAL FOR APPLICATIONS REQUIRING FAST AND HIGH-QUALITY MEASUREMENTS

TABLE 20 MODULAR: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 21 MODULAR: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

7 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY TYPE

7.1 INTRODUCTION

TABLE 22 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY TYPE, 2018–2021 (USD MILLION)

FIGURE 39 SYNTHESIZED RF ULTRA-LOW PHASE NOISE SIGNAL GENERATORS TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 23 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY TYPE, 2022–2027 (USD MILLION)

7.2 SYNTHESIZED RF SIGNAL GENERATORS

7.2.1 ENABLE OUTPUT SIGNAL DETERMINATION AT GREATER ACCURACY

7.3 FREE RUNNING RF SIGNAL GENERATORS

7.3.1 DESIGNED FOR EXPERIMENTS CONDUCTED IN RESEARCH LABS

8 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION

8.1 INTRODUCTION

TABLE 24 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

FIGURE 40 COMMUNICATION SYSTEMS SEGMENT TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

TABLE 25 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

8.2 RADAR SYSTEMS

8.2.1 RISING USE OF RTE AT DEVELOPMENT, TESTING, EVALUATION, AND PRODUCTION STAGES TO SPUR MARKET GROWTH

TABLE 26 RADAR SYSTEMS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 27 RADAR SYSTEMS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

8.3 COMPONENT TESTING EQUIPMENT

8.3.1 CIRCUIT DESIGNING AND ELECTRICAL SIGNAL TESTING – KEY APPLICATIONS OF ULTRA-LOW PHASE NOISE RF SIGNAL GENERATORS

TABLE 28 COMPONENT TESTING EQUIPMENT: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

FIGURE 41 ASIA PACIFIC TO COMMAND MARKET FOR COMPONENT TESTING EQUIPMENT FROM 2022 TO 2027

TABLE 29 COMPONENT TESTING EQUIPMENT: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

8.4 COMMUNICATION SYSTEMS

8.4.1 INCREASING ADOPTION OF SIGNAL GENERATORS IN TESTING DIGITAL WIRELESS SYSTEMS TO SUPPORT MARKET GROWTH

TABLE 30 COMMUNICATION SYSTEMS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

FIGURE 42 ASIA PACIFIC TO WITNESS HIGHEST CAGR IN MARKET FOR COMMUNICATION SYSTEMS FROM 2022 TO 2027

TABLE 31 COMMUNICATION SYSTEMS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE

9.1 INTRODUCTION

TABLE 32 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2018–2021 (USD MILLION)

FIGURE 43 AUTOMOTIVE SEGMENT TO RECORD HIGHEST CAGR IN ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET DURING FORECAST PERIOD
TABLE 33 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2022–2027 (USD MILLION)

9.2 INFORMATION AND COMMUNICATION TECHNOLOGY

9.2.1 HIGH ADOPTION OF 5G AND WIRELESS COMMUNICATION

TECHNOLOGIES BOOSTS MARKET GROWTH

TABLE 34 INFORMATION AND COMMUNICATION TECHNOLOGY: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

FIGURE 44 ASIA PACIFIC TO LEAD MARKET FOR INFORMATION AND COMMUNICATION TECHNOLOGY SEGMENT THROUGHOUT FORECAST PERIOD

TABLE 35 INFORMATION AND COMMUNICATION TECHNOLOGY: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9.3 AEROSPACE AND DEFENSE

9.3.1 REQUIREMENT FOR HIGH-PERFORMANCE AND MISSION-CRITICAL DESIGNS OF NEXT-GENERATION AIRCRAFT TO PROVIDE GROWTH OPPORTUNITIES

TABLE 36 AEROSPACE AND DEFENSE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 37 AEROSPACE AND DEFENSE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9.4 SEMICONDUCTORS AND ELECTRONICS

9.4.1 HIGH ADOPTION OF SIGNAL GENERATORS TO CHECK PERFORMANCE OF AMPLIFIERS AND FILTERS TO SUPPORT MARKET GROWTH

TABLE 38 SEMICONDUCTORS AND ELECTRONICS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 39 SEMICONDUCTORS AND ELECTRONICS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9.5 AUTOMOTIVE

9.5.1 INTEGRATION OF BLUETOOTH-POWERED INFOTAINMENT AND RADIO SYSTEMS IN MODERN VEHICLES TO ACCELERATE MARKET GROWTH

TABLE 40 AUTOMOTIVE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

FIGURE 45 EUROPE TO WITNESS HIGHEST CAGR IN MARKET FOR AUTOMOTIVE SEGMENT DURING FORECAST PERIOD

TABLE 41 AUTOMOTIVE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9.6 RESEARCH AND DEVELOPMENT LABORATORIES

9.6.1 INCREASED USE OF SIGNAL GENERATORS IN TESTING LABORATORIES DEALING WITH RADIO EQUIPMENT TO PROPEL MARKET GROWTH

TABLE 42 RESEARCH AND DEVELOPMENT LABORATORIES: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 43 RESEARCH AND DEVELOPMENT LABORATORIES: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

9.7 OTHERS

TABLE 44 OTHERS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 45 OTHERS: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

10 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 46 SOUTH KOREA TO EXHIBIT HIGHEST CAGR IN GLOBAL ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET DURING FORECAST PERIOD

TABLE 46 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 47 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

TABLE 48 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (THOUSAND UNITS)

TABLE 49 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (THOUSAND UNITS)

10.2 NORTH AMERICA

FIGURE 47 SNAPSHOT OF ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET IN NORTH AMERICA

TABLE 50 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 51 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 52 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2018–2021 (USD MILLION)

TABLE 53 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2022–2027 (USD MILLION)

TABLE 54 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2018–2021 (USD MILLION)

TABLE 55 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2022–2027 (USD MILLION)

TABLE 56 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 57 NORTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

10.2.1 US

10.2.1.1 Presence of key market players to support market growth

TABLE 58 US: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 59 US: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

10.2.2 CANADA

10.2.2.1 Growing demand for high-speed communication services to create opportunities for signal generator providers

TABLE 60 CANADA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD THOUSAND)

TABLE 61 CANADA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD THOUSAND)

10.2.3 MEXICO

10.2.3.1 Surging demand for T&M equipment in telecommunications industry to accelerate market growth

TABLE 62 MEXICO: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD THOUSAND)

TABLE 63 MEXICO: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD THOUSAND)

10.3 EUROPE

FIGURE 48 SNAPSHOT OF ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET IN EUROPE

TABLE 64 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 65 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 66 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2018–2021 (USD MILLION)

TABLE 67 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2022–2027 (USD MILLION)

TABLE 68 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2018–2021 (USD MILLION)

TABLE 69 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2022–2027 (USD MILLION)

TABLE 70 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 71 EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

10.3.1 UK

10.3.1.1 Rising demand for wireless and cellular communication networks to propel market growth

TABLE 72 UK: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 73 UK: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

10.3.2 GERMANY

10.3.2.1 Flourishing automotive and robotics & automation industries to contribute to market growth

TABLE 74 GERMANY: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 75 GERMANY: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

10.3.3 FRANCE

10.3.3.1 Growing implementation of cloud computing and IoT technologies to create opportunities for RF product manufacturers

TABLE 76 FRANCE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 77 FRANCE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

10.3.4 ITALY

10.3.4.1 Government initiatives to fund patent applications to fuel market growth

TABLE 78 ITALY: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD THOUSAND)

TABLE 79 ITALY: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD THOUSAND)

10.3.5 REST OF EUROPE (ROE)

TABLE 80 REST OF EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD THOUSAND)

TABLE 81 REST OF EUROPE: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD THOUSAND)

10.4 ASIA PACIFIC

FIGURE 49 SNAPSHOT OF ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET IN ASIA PACIFIC**TABLE 82 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)****TABLE 83 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)****TABLE 84 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2018–2021 (USD MILLION)****TABLE 85 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2022–2027 (USD MILLION)****TABLE 86 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2018–2021 (USD MILLION)****TABLE 87 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2022–2027 (USD MILLION)****TABLE 88 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY COUNTRY, 2018–2021 (USD MILLION)****TABLE 89 ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY COUNTRY, 2022–2027 (USD MILLION)****10.4.1 CHINA****10.4.1.1 Increasing deployment of 5G networks to drive market growth****TABLE 90 CHINA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)****TABLE 91 CHINA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)****10.4.2 JAPAN****10.4.2.1 Strong focus of market players on launching innovative RF products to push market growth****TABLE 92 JAPAN: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)****TABLE 93 JAPAN: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)****10.4.3 SOUTH KOREA****10.4.3.1 Need for seamless connectivity services to augment demand for RF signal generators****TABLE 94 SOUTH KOREA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)****TABLE 95 SOUTH KOREA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)****10.4.4 REST OF ASIA PACIFIC**

TABLE 96 REST OF ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 97 REST OF ASIA PACIFIC: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

10.5 REST OF THE WORLD

TABLE 98 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 99 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 100 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2018–2021 (USD MILLION)

TABLE 101 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY END USE, 2022–2027 (USD MILLION)

TABLE 102 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2018–2021 (USD MILLION)

TABLE 103 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY FORM FACTOR, 2022–2027 (USD MILLION)

TABLE 104 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 105 REST OF THE WORLD: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY REGION, 2022–2027 (USD MILLION)

10.5.1 MIDDLE EAST & AFRICA

10.5.1.1 South Africa, UAE, and Saudi Arabia to contribute significantly to market growth

TABLE 106 MIDDLE EAST & AFRICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD THOUSAND)

TABLE 107 MIDDLE EAST & AFRICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD THOUSAND)

10.5.2 SOUTH AMERICA

10.5.2.1 Increasing adoption of wireless communication networks to foster market growth

TABLE 108 SOUTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 109 SOUTH AMERICA: ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 110 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET

11.2.1 PRODUCT PORTFOLIO

11.2.2 REGIONAL FOCUS

11.2.3 MANUFACTURING FOOTPRINT

11.2.4 ORGANIC/INORGANIC GROWTH STRATEGIES

11.3 MARKET SHARE ANALYSIS, 2021

TABLE 111 MARKET: DEGREE OF COMPETITION

11.4 REVENUE ANALYSIS OF TOP COMPANIES

FIGURE 50 FIVE-YEAR REVENUE ANALYSIS OF TOP PLAYERS IN ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET

11.5 COMPANY EVALUATION QUADRANT

11.5.1 STARS

11.5.2 PERVASIVE PLAYERS

11.5.3 EMERGING LEADERS

11.5.4 PARTICIPANTS

FIGURE 51 RF SIGNAL GENERATOR MARKET (GLOBAL): COMPANY EVALUATION QUADRANT

11.6 COMPANY FOOTPRINT

TABLE 112 COMPANY APPLICATION FOOTPRINT

TABLE 113 COMPANY END USE FOOTPRINT

TABLE 114 REGIONAL FOOTPRINT OF COMPANIES

TABLE 115 OVERALL FOOTPRINT OF COMPANIES

11.7 COMPETITIVE SCENARIOS AND TRENDS

11.7.1 PRODUCT LAUNCHES AND DEVELOPMENTS

TABLE 116 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: PRODUCT LAUNCHES AND DEVELOPMENTS, JANUARY 2018–JANUARY 2022

11.7.2 DEALS

TABLE 117 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: DEALS, JANUARY 2019–DECEMBER 2021

11.7.3 OTHERS

TABLE 118 ULTRA-LOW PHASE NOISE RF SIGNAL GENERATOR MARKET: OTHERS, JANUARY 2019–SEPTEMBER 2021

12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

12.1 KEY PLAYERS

12.1.1 ANRITSU CORPORATION

TABLE 119 ANRITSU CORPORATION: BUSINESS OVERVIEW

FIGURE 52 ANRITSU CORPORATION: COMPANY SNAPSHOT

TABLE 120 ANRITSU CORPORATION: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 121 ANRITSU CORPORATION: PRODUCT LAUNCHES

TABLE 122 ANRITSU CORPORATION: DEALS

12.1.2 ROHDE & SCHWARZ GMBH & CO KG

TABLE 123 ROHDE & SCHWARZ GMBH & CO KG: BUSINESS OVERVIEW

TABLE 124 ROHDE & SCHWARZ GMBH & CO KG: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 125 ROHDE & SCHWARZ GMBH & CO KG: PRODUCT LAUNCHES

12.1.3 KEYSIGHT TECHNOLOGIES

TABLE 126 KEYSIGHT TECHNOLOGIES: BUSINESS OVERVIEW

FIGURE 53 KEYSIGHT TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 127 KEYSIGHT TECHNOLOGIES: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 128 KEYSIGHT TECHNOLOGIES: PRODUCT LAUNCHES

12.1.4 BERKELEY NUCLEONICS CORPORATION

TABLE 129 BERKELEY NUCLEONICS CORPORATION: BUSINESS OVERVIEW

TABLE 130 BERKELEY NUCLEONICS CORPORATION: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 131 BERKELEY NUCLEONICS CORPORATION: PRODUCT LAUNCHES

TABLE 132 BERKELEY NUCLEONICS CORPORATION: DEALS

12.1.5 ANAPICO AG

TABLE 133 ANAPICO AG: BUSINESS OVERVIEW

TABLE 134 ANAPICO AG: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 135 ANAPICO AG: PRODUCT LAUNCHES

12.1.6 BOONTON ELECTRONICS

TABLE 136 BOONTON ELECTRONICS (PART OF WIRELESS TELECOM GROUP): BUSINESS OVERVIEW

TABLE 137 BOONTON ELECTRONICS: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 138 BOONTON ELECTRONICS: PRODUCTS LAUNCHED

TABLE 139 BOONTON ELECTRONICS: DEALS

12.1.7 TEXAS INSTRUMENTS

TABLE 140 TEXAS INSTRUMENTS: BUSINESS OVERVIEW

FIGURE 54 TEXAS INSTRUMENTS: COMPANY SNAPSHOT

TABLE 141 TEXAS INSTRUMENTS: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 142 TEXAS INSTRUMENTS: DEALS

12.1.8 TEKTRONIX, INC. (PART OF DANAHER CORPORATION)

TABLE 143 TEKTRONIX, INC. (PART OF DANAHER CORPORATION): BUSINESS OVERVIEW

FIGURE 55 TEKTRONIX, INC. (PART OF DANAHER CORPORATION): COMPANY SNAPSHOT

TABLE 144 TEKTRONIX INC (PART OF DANAHER CORPORATION): PRODUCT/SOLUTION/SERVICE OFFERINGS

12.1.9 B&K PRECISION CORPORATION

TABLE 145 B&K PRECISION CORPORATION: BUSINESS OVERVIEW

TABLE 146 B&K PRECISION CORPORATION: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 147 B&K PRECISION CORPORATION: PRODUCT LAUNCHES

12.1.10 TABOR ELECTRONICS LTD.

TABLE 148 TABOR ELECTRONICS LTD.: BUSINESS OVERVIEW

TABLE 149 TABOR ELECTRONICS LTD: PRODUCT/SOLUTION/SERVICE OFFERINGS

TABLE 150 TABOR ELECTRONICS LTD.: PRODUCT LAUNCHES

TABLE 151 TABOR ELECTRONICS LTD.: DEALS

TABLE 152 TABOR ELECTRONICS LTD.: OTHERS

12.2 OTHER PLAYERS

12.2.1 SIGNALCORE, INC.

12.2.2 DS INSTRUMENTS

12.2.3 RF LAMBDA

12.2.4 STANFORD RESEARCH SYSTEMS

12.2.5 NATIONAL INSTRUMENTS

12.2.6 PICO TECHNOLOGY

12.2.7 TRANSCOM INSTRUMENTS

12.2.8 NOVATECH INSTRUMENTS, INC.

12.2.9 VAUNIX TECHNOLOGY CORPORATION

12.2.10 SALUKI TECHNOLOGY INC.

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

13 APPENDIX

13.1 INSIGHTS FROM INDUSTRY EXPERTS

13.2 DISCUSSION GUIDE

13.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.4 CUSTOMIZATION OPTIONS

13.5 RELATED REPORTS

13.6 AUTHOR DETAILS

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