Overview
One Resonance Sensors, LLC (ORS) is a leader in developing and manufacturing advanced instrumentation that uses magnetic resonance (MR) technologies to provide rapid detection of explosives and chemical analysis for security screening and industrial applications.

ORS was founded in 2011 and headquartered in San Diego, California by an experienced team of technologists with an established track record of success in designing and engineering advanced security and analytical instrumentation.

Markets Served
Security
Since 9/11, the threat of terrorist activity has intensified as terrorist organizations devise more sophisticated methods of attack. To counter emerging threats, security operators require advanced technologies to detect and thwart terrorist attacks at airports as well as other vulnerable targets such as sport and concert venues and theme parks.

In response to a recent security threat, electronic devices have been banned on certain flights to the U.S. and U.K., and the ban may be expanded to flights from European airports and other regions, which will impact many more flights and millions of travelers. The electronics ban and its expansion is highly disruptive and costly to airport and air carrier bottom lines and operations, reduces business traveler productivity and severely degrades the passenger experience.

Industrial, Scientific
Conventional magnetic resonance-based (MR) chemical analysis equipment requires dedicated laboratories, highly trained personnel, costly cryogenic fluids such as liquid nitrogen and liquid helium, and extensive safety requirements. Growing demand for magnetic resonance molecular analysis from scientific and industrial markets has created a shortage of cryogenic liquids, forcing companies to retire equipment or delay key purchases due to the costs of the systems and process which results in restricted research and development activities.
**Products**
ORS develops and manufactures durable, high-performance analytical equipment that can be connected to a network for real-time data delivery and delivers low total cost of ownership.

*MobiLab® ES Electronics Scanner* is the only device that screens electronics in seconds to detect concealed hazardous materials and explosives at security checkpoints using chemical-specific radio-frequency technology. This proven screening system has demonstrated effectiveness in expediting airport security inspection of electronic items - a top global security concern. Its small size, easy-to-use single-touch operation, and self-calibration make it a clear and immediately implementable choice as a security solution for airports and other security screening operations.

*MobiLab® BLS Bottled-Liquid Scanner* for security checkpoints provides an automated screening solution for rapid detection of liquid explosives and other hazardous liquids. Endorsed by the European Civil Aviation Conference (ECAC), this easy-to-maintain device works with all glass, plastic, ceramic and paper-wrapped containers.

*MobiLab® 130 Elemental Analyzer* for mining and food industries is a portable device that, in seconds, measures concentration of elements in solution, from ppm to saturation in any environment. Highly efficient and easy to operate, the device can be used in the lab and in the field and requires no sample preparation. Users can select a single or multi-element analysis from Li, B, Na, Cl, Al, P and more.

**Technology**
Magnetic Resonance (MR) is the technology of choice for efficient chemical analysis. ORS’ MR-based instruments introduce highly disruptive security and analytical solutions within multiple industries. To date, these types of solutions have only been possible using superconductor-based magnetic resonance instruments or by less practical and less efficient technologies.

Harnessing its innovative, patented technology, ORS’ instruments provide highly accurate and complex analysis capability in a small, highly efficient system. Their compact size and next-generation design enable lab-quality chemical analysis in the field. By eliminating the need for cryogenic cooling, the system delivers portable, high-quality capability at a significantly lower cost with low maintenance costs.

**Selected Customers**
- NASA Jet Propulsion Laboratory
- U.S. Department of Agriculture
- U.S. Army
- U.S. Department of Homeland Security, Security and Technology
- Transportation Security Administration
- Rio Tinto
- Baxter Healthcare
- Del Monte
- Nongshim
- Eramet
- Rockwood Lithium
Funding Support, Certifications and Field Deployments

**May 2014:** European Civil Aviation Conference (ECAC) grants MobiLab® BLS Bottled Liquid Scanner Type B certification.

**February 2015:** U.S. Department of Homeland Security (DHS), Science and Technology Directorate (S&T) signs agreement to fund evaluation of MobiLab® ES at a number of government facilities in the U.S. and Europe.

**February 2016:** Live trials of MobiLab® BLS and MobiLab® ES scanners security scanners begin at Hamad International Airport in Doha, Qatar, passenger departure security checkpoints.

**June 2016:** U.S. Transportation Security Administration approves contract for ORS to complete new version of the MobiLab BLS bottled liquid scanner.

**March 2017:** MobiLab® ES scanner successfully completed second phase of testing at DHS Transportation Security Laboratories.

**June 2017:** MobiLab® ES evaluation by TSA commences

**Sales/Support**
ORS sells directly to customers and delivers service directly by its team of specialized service engineers.

**Management**
Pablo J. Prado, Founder and CEO
Greg Holifield, Founder and Managing Member
Shaun O’Brien, CFO
Robert Lown, Principal Engineer

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