PIONEERS IN
VIRTUAL EMI/EMC LABORATORY

SimYog

Even the most groundbreaking hardware products face unforeseen challenges.

Your designs fuel the future of aerospace systems, next-gen automobiles, and cutting-edge technologies. But what if you could anticipate and address roadblocks before they derail delivery?

At SimYog, we tackle your biggest pain point head-on — EMI/EMC issues. They are the curveballs that disrupt timelines, inflate costs, and jeopardize critical deliveries.

A single compliance failure can set you back weeks, risking competitive advantage. That's why we're here: to keep your innovation on track, starting where it matters most — the early design stage.

Optimize Hardware Design at Every Step

Enabling 'Agile for Hardware Design' with EMI/EMC simulation software that seamlessly integrates into the early design process.

Our Journey

2017: Founding Year
- Incorporated as a spin-off from IISc

2018: Seed Funding & Recognition
- Raised seed capital from Bosch and Idea Spring Capital
- Won the KA Elevate award

2019: Commercial Engagements
- Received first purchase order from Cypress

2020: Product Launch
- Released Compliance-Scope production version

2021: Industry Recognition & Team Expansion
- Dr Pradip Dutta joined as Advisor to the Board
- Intel selected Simyog for the Intel startup program
- SimYog wins the NASSCOM Emerge 50 Award in the Enterprise category

2022: Strategic Partnerships & Industry Recognition
- Selected for IIT startups program
- Selected by Qualcomm for their startup program
- Won Tech30 award from YourStory TechSparks

2023: Customer Growth & Funding Milestones
- Reached 10 license customer companies spread across Semiconductor, Tier-1, OEMs
- Won SEMCEI industry award at APEMC-IN CEMIC 2023
- Secured Series-A funding from Mela Ventures, IdeaSpring Capital, and 1-crowd

2024: Year of Expansion
- Dr Krishnan Ramaswami joined as CTO
- India patent on IC-model granted
- Released SEM-Scope beta version
- Featured on Forbes
- Signed distribution agreement with Hexagon, India
- Rebranded SimYog logo
- Released MAX-Scope production version

Why Choose SimYog

Reduce BOM costs by **50%**

Accelerate time to market by **25%**

Lower R&D operational costs by **10%**

Trusted by Clients, Backed by Partners

Partner testimonial: "SimYog products are already in use at several top 10 semiconductor, Tier-1, OEM, and Defence companies. That's why we believe that SimYog is a great partner for us at Hexagon Manufacturing Intelligence and we look forward to creating a win-win situation for us and our customers."

- Sridhar Dharmarajan
Executive Vice President & Managing Director, Hexagon

Client Testimonial: "SimYog's EMI/EMC simulation at the design stage significantly reduces the risk of delays & higher verification costs during the certification stage. One can benefit from sample production cost savings, faster time-to-market, and improved product performance. SimYog plays a significant part in our product success, and we are excited about the promising roadmap."

- R. K. Shenoy
Ex-CTO, Bosch Global Software Technologies

Connect With Our Leadership

Dr Dipanjan Gope
CEO & Founder
IISC, Ex-Intel
University of Washington

Dr Krishnan Ramaswami
CTO
Ex-TESCO, IISC
Stanford University

Dr Pradip K. Dutta
Advisor to the Board
Ex- Synopsys
University of Maryland

Our Trusted Partners

BOSCH

INDIAN INSTITUTE OF SCIENCE
भारतीय विज्ञान संस्थान

Ventures

ideaspring CAPITAL

HEXAGON MANUFACTURING INTELLIGENCE

Our Clients

TEXAS INSTRUMENTS

Infineon

MICROCHIP

BOSCH

Panasonic

Mercedes-Benz

ST life.augmented

DRDO NSTL

RCI - DRDO

Schneider Electric

SAINT-GOBAIN

Transform What-If Into What's-Next

Our pioneering simulation technology ensures
the perfect harmony of design and compliance, allowing you
to focus on what matters most — innovation.

SimYog

Scan to learn more
or schedule a demo

Contact Us

📞 1800-309-0746

🌐 www.simyog.com

✉ info@simyog.com

📍 Simyog Technology Pvt. Ltd.
No.5/1, "Prestige Terraces" First floor,
Union Street, Bangalore 560001

SimYog

Compliance-Scope®: Virtual EMI/EMC Laboratory

What if the most elusive challenges could be uncovered during the earliest design stages?

Transition your ideas seamlessly from concept to reality — streamline workflows, mitigate risks, and accelerate your time to market with Compliance-Scope — your virtual EMI/EMC laboratory. Its predictive capabilities enable you to identify and resolve electromagnetic compliance issues early, ensuring you stay ahead of the curve with precision.
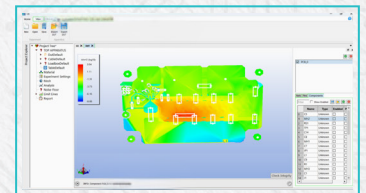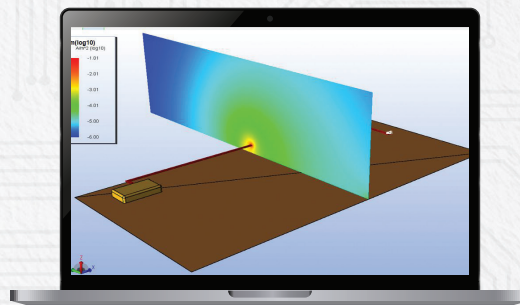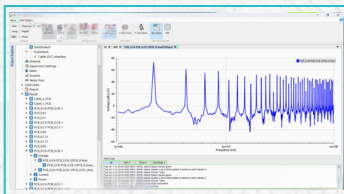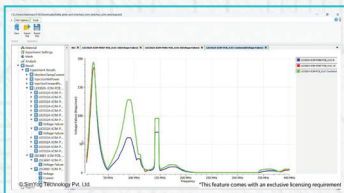
Key Advantages

Cut BOM Costs
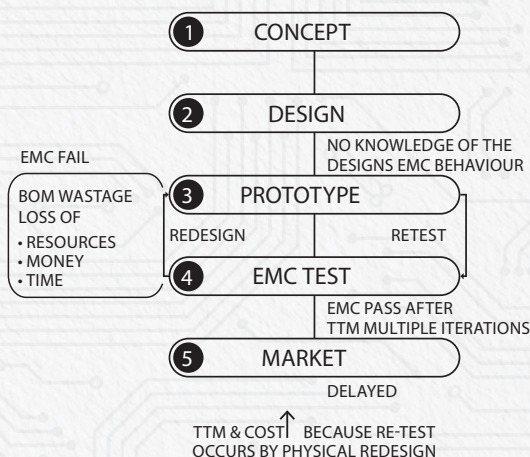Save up to 50% on additional components for compliance

Reduced Operational Costs
Accurate results enable over 10% savings in R&D

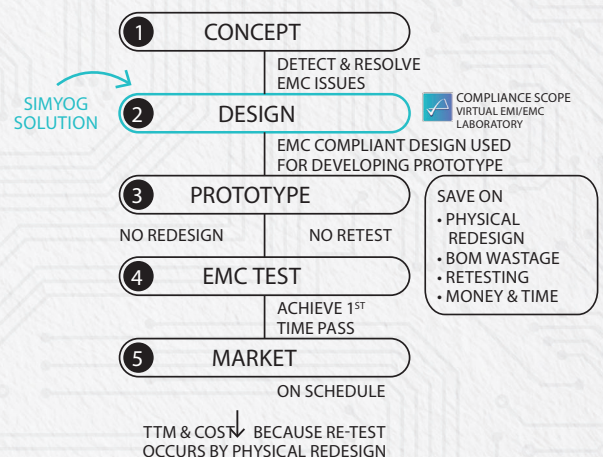**Faster Time to Market**
Reduce design cycles by 25%
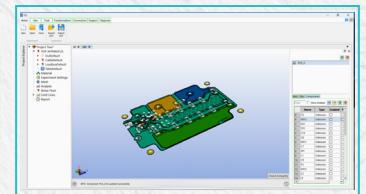
TRADITIONAL METHOD
PHYSICAL LAB WORKFLOW

1. CONCEPT
2. DESIGN

NO KNOWLEDGE OF THE DESIGNS EMC BEHAVIOUR

EMC FAIL

BOM WASTAGE
LOSS OF
• RESOURCES
• MONEY
• TIME

3. PROTOTYPE

REDESIGN   RETEST

4. EMC TEST

EMC PASS AFTER TTM MULTIPLE ITERATIONS

5. MARKET

DELAYED

TTM & COST↑ BECAUSE RE-TEST OCCURS BY PHYSICAL REDESIGN

VS

SIMYOG METHOD
SIMULATION WORKFLOW

1. CONCEPT

DETECT & RESOLVE EMC ISSUES

SIMYOG SOLUTION

2. DESIGN

COMPLIANCE SCOPE VIRTUAL EMI/EMC LABORATORY

EMC COMPLIANT DESIGN USED FOR DEVELOPING PROTOTYPE

3. PROTOTYPE

NO REDESIGN   NO RETEST

SAVE ON
• PHYSICAL REDESIGN
• BOM WASTAGE
• RETESTING
• MONEY & TIME

4. EMC TEST

ACHIEVE 1ST TIME PASS

5. MARKET

ON SCHEDULE

TTM & COST↓ BECAUSE RE-TEST OCCURS BY PHYSICAL REDESIGN

Why Compliance-Scope is a Game-Changer?

Key Features

▶ **Predictive Compliance Testing**
Analyze Radiated Emissions (RE), Conducted Emissions (CE), Radiated Susceptibility (RS), and Conducted Susceptibility (CS)

▶ **Automated Simulation**
Save engineering effort with fast 3D runtime and EMC-specific model libraries

▶ **Comprehensive Standards**
Supports CISPR25, CISPR32, ISO 11452, MIL-STD-461G, and more

▶ **Real-Time Diagnostics**
Visualize and address design bottlenecks instantly
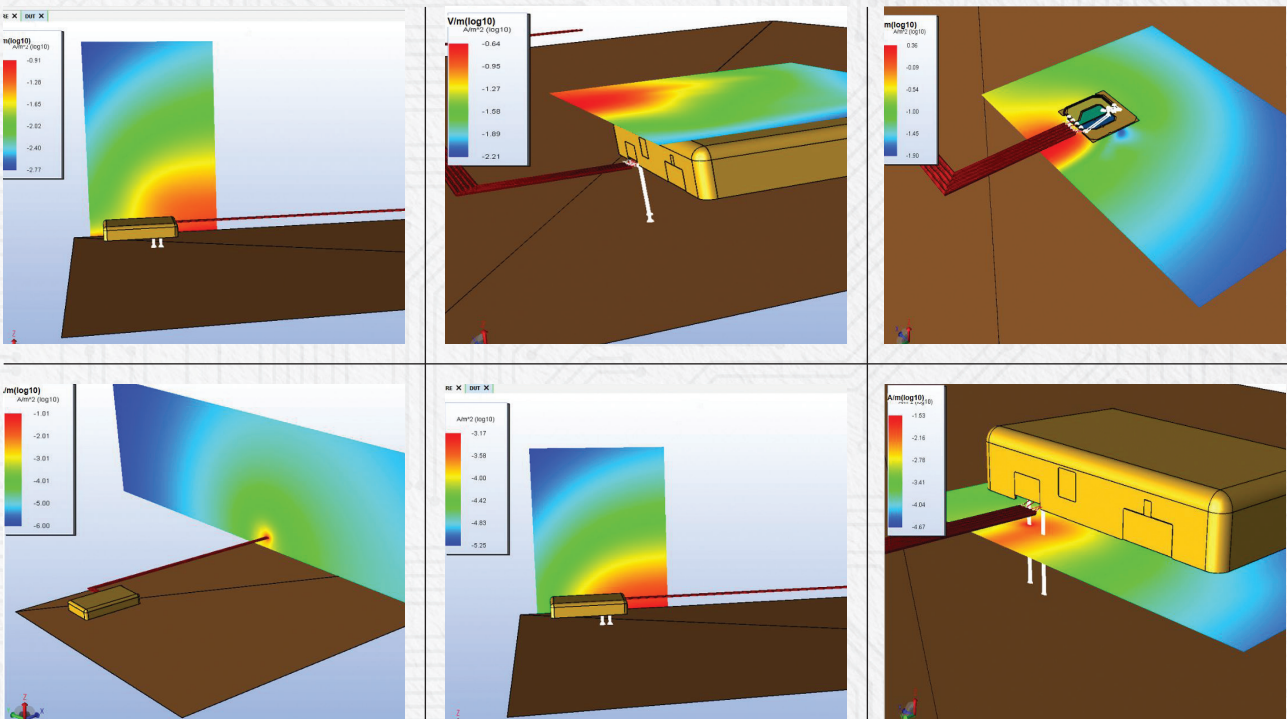
Clients

Our global marquee customers

Scan to learn more or schedule a demo

Contact Us

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SimYog

SEM-Scope™: Model-based System-level EMI/EMC Simulation

What if complex systems could be simplified at their core?

It's possible with SEM-Scope, the industry's first tool for model-based system-level EMI/EMC simulation. SEM-Scope revolutionizes how you address integration-level challenges by generating sub-system models and embedding them into system-level simulations.

This makes setting up, solving, and visualizing complex systems effortless. From streamlining design workflows to delivering precise insights, SEM-Scope empowers you to predict and design for system-level success.

Key Advantages

Simplified Setup
Streamline harness and geometry imports with intuitive tools

Comprehensive Analysis
Visualize system-level EMI/EMC behavior with precision

Enhanced Collaboration
Generate sub-system models without disclosing the internal details and share across teams/organisations for system-level results

Efficiency Gain
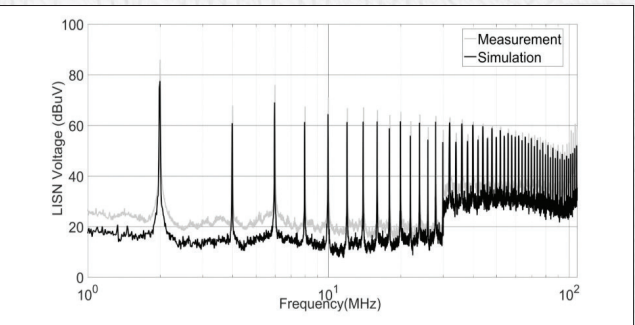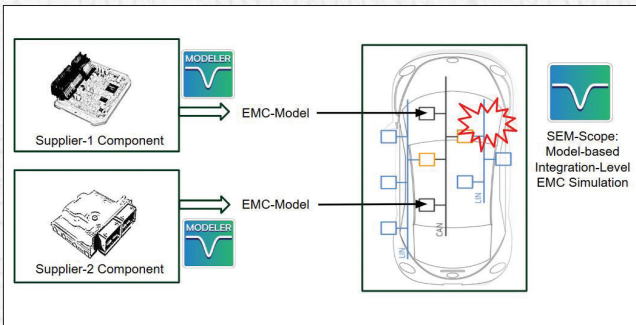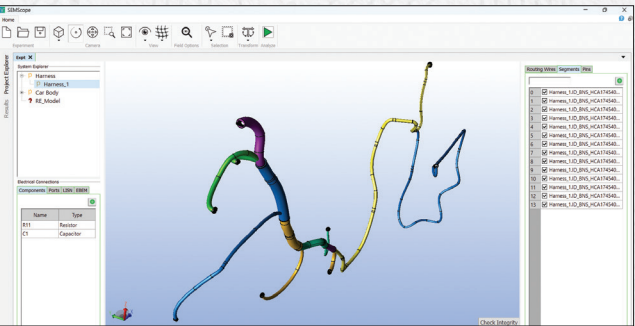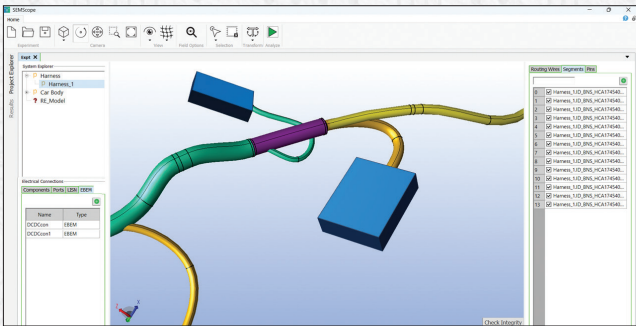Hybrid 2D/3D electromagnetic simulation setup for optimal efficiency
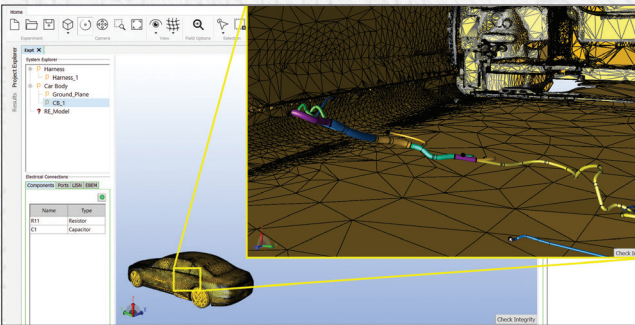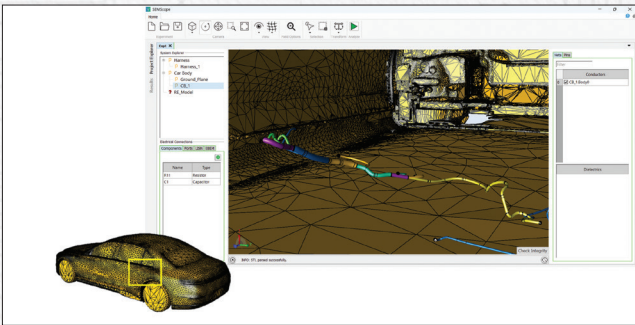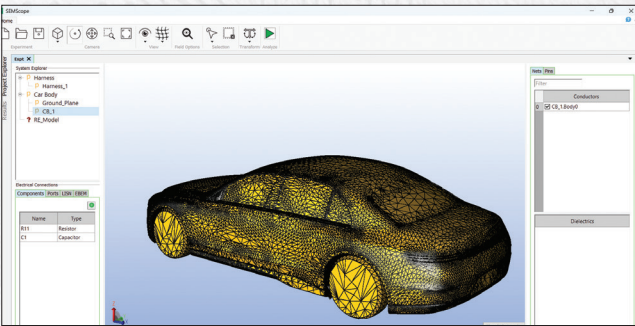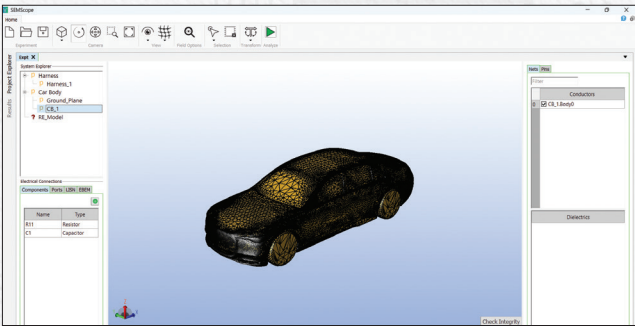
What makes SEM-Scope Essential for Complex Systems

Key Features

▶ **Sub-system Model Generation**
SEM-Scope provides the capability of generating Electronic Board Emission Models (EBEM) that do not disclose the internal details but is sufficient for system-level EMI/EMC analysis

▶ **Harness Integration**
Import KBL files with full cross-section data or path information, or create wiring harnesses from scratch using a cable library

▶ **3D Geometry Support**
Import SAT or STL files for detailed system visualization

▶ **Advanced Visualization**
Generate s-parameter and Eh/Ev field plots for comprehensive insights

▶ **Component Setup**
Add pins, ports, LISN, EBEM models, and other components easily

▶ **Dual Analysis Modes**
Switch between extraction and driven mode analysis with adaptive mesh refinement

SEM-Scope: Model-based Integration-Level EMC Simulation

Scan to learn more or schedule a demo

SimYog

Max-Scope®: Powering Precision in Electromagnetic Design

What if tackling electromagnetic challenges could be effortless and accurate — every single time?

Introducing Max-Scope, the next-gen 3D full-wave electromagnetic solver built on the Fast Method of Moments. Whether you are optimizing signal integrity or fine-tuning antenna designs, Max-Scope delivers precision and efficiency like never before. It transforms even the most complex simulations into actionable insights, empowering you to create designs that don't just meet expectations — they set new standards.

Key Advantages

Comprehensive Applications
Supports Signal Integrity, Power Integrity, EMI/EMC, and Antenna Analysis

Quick Results
Delivers S-parameter extraction, near and far field computation, and antenna parameters with precision

Optimized Inputs
Integrates PCB layout (ODB++ files), 3D geometry (SAT files), BOM for discrete components, and circuit or electromagnetic sources

Next-Generation Technology
Features a linear-scaling Fast Method of Moments solver and high-efficiency multicore and multi-machine parallelization

Technology Differentiators

Scalable Solutions
Linear scaling ensures fast, efficient simulations, even for large designs

Parallel Processing
Harness the power of multi-core and multi-machine setups for superior performance

Applications

Signal Integrity
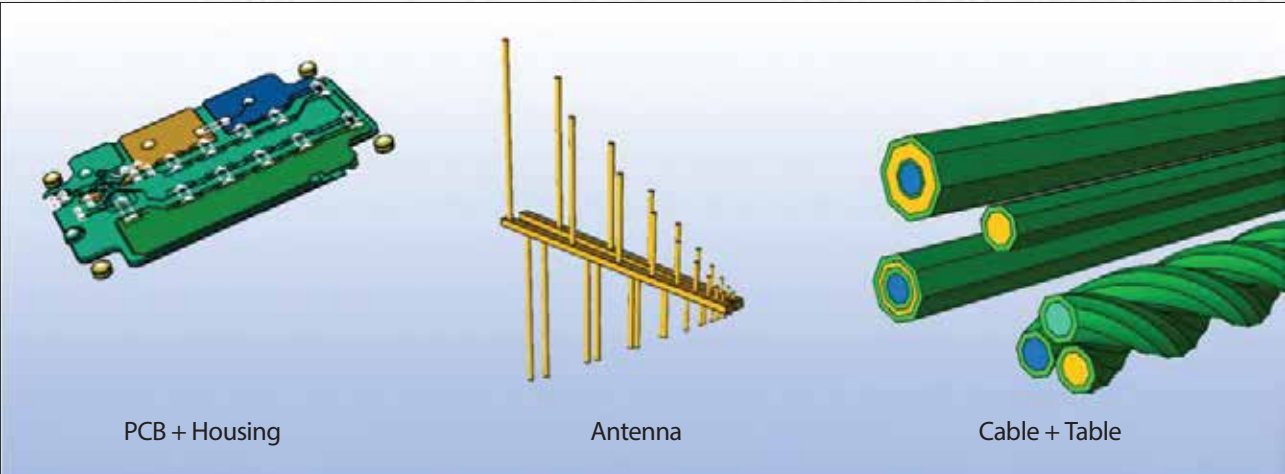Analysis

Power Integrity
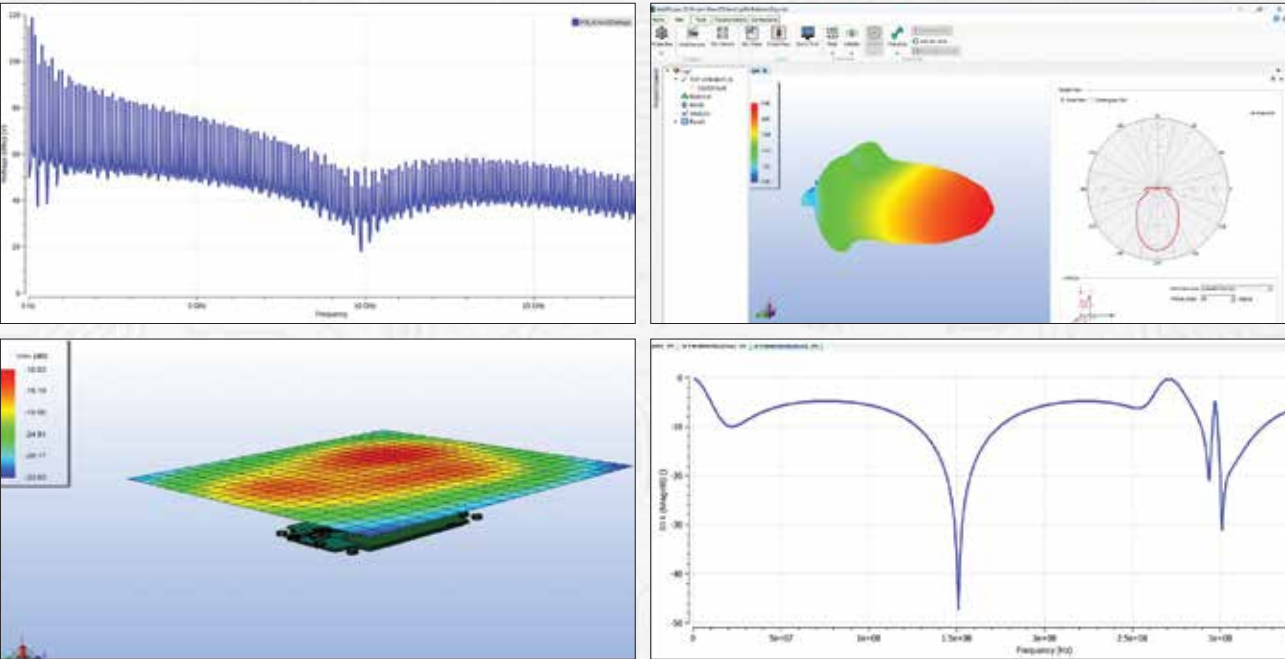Optimization

EMI/EMC
Simulations

Antenna Performance
Evaluation

Easy Setup and Editing

PCB + Housing   Antenna   Cable + Table

Visualization of Results

Why Max-Scope Stands Out

▶ Ahead of the Curve
Max-Scope leverages SimYog's deep domain expertise to deliver a revolutionary approach to electromagnetic simulations, combining speed, precision, and scalability in a way that redefines industry standards.

▶ Proven Performance
Built on years of cutting-edge research and development, Max-Scope empowers engineers with unparalleled insights and reliable results to meet even the most demanding design challenges.

Scan to learn more
or schedule a demo