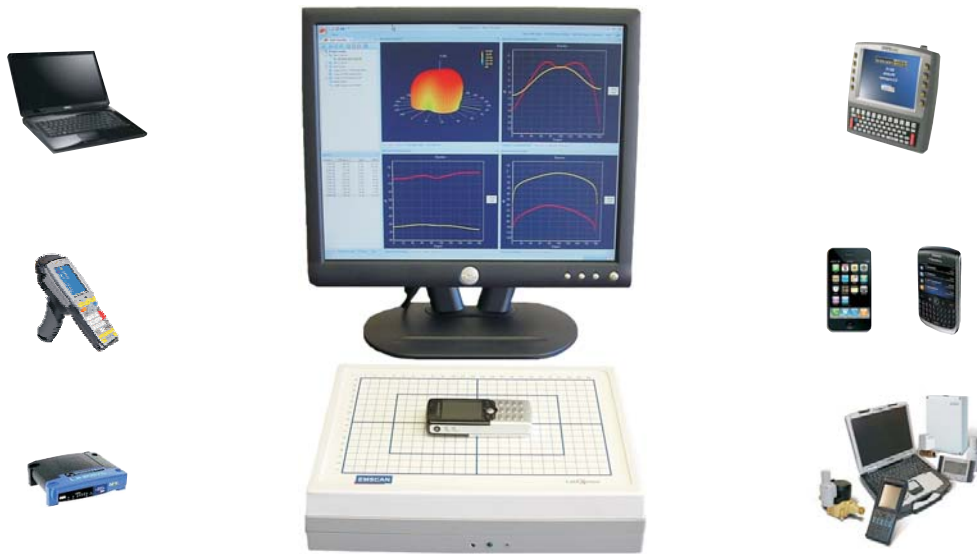




Paradigm Shift in Antenna Pattern Measurements



Rapidly and accurately measure:

- 2D and 3D near field patterns (amplitude, phase)
- Broad frequency coverage: 700 MHz - 6 GHz
- Polarization diversity
- EIRP, radiated power
- Far field patterns and bi-sections
- Designate Golden Samples and make comparisons

Optimally integrate antennas into complex structures

Integrate with NA and BSE for rapid measurements

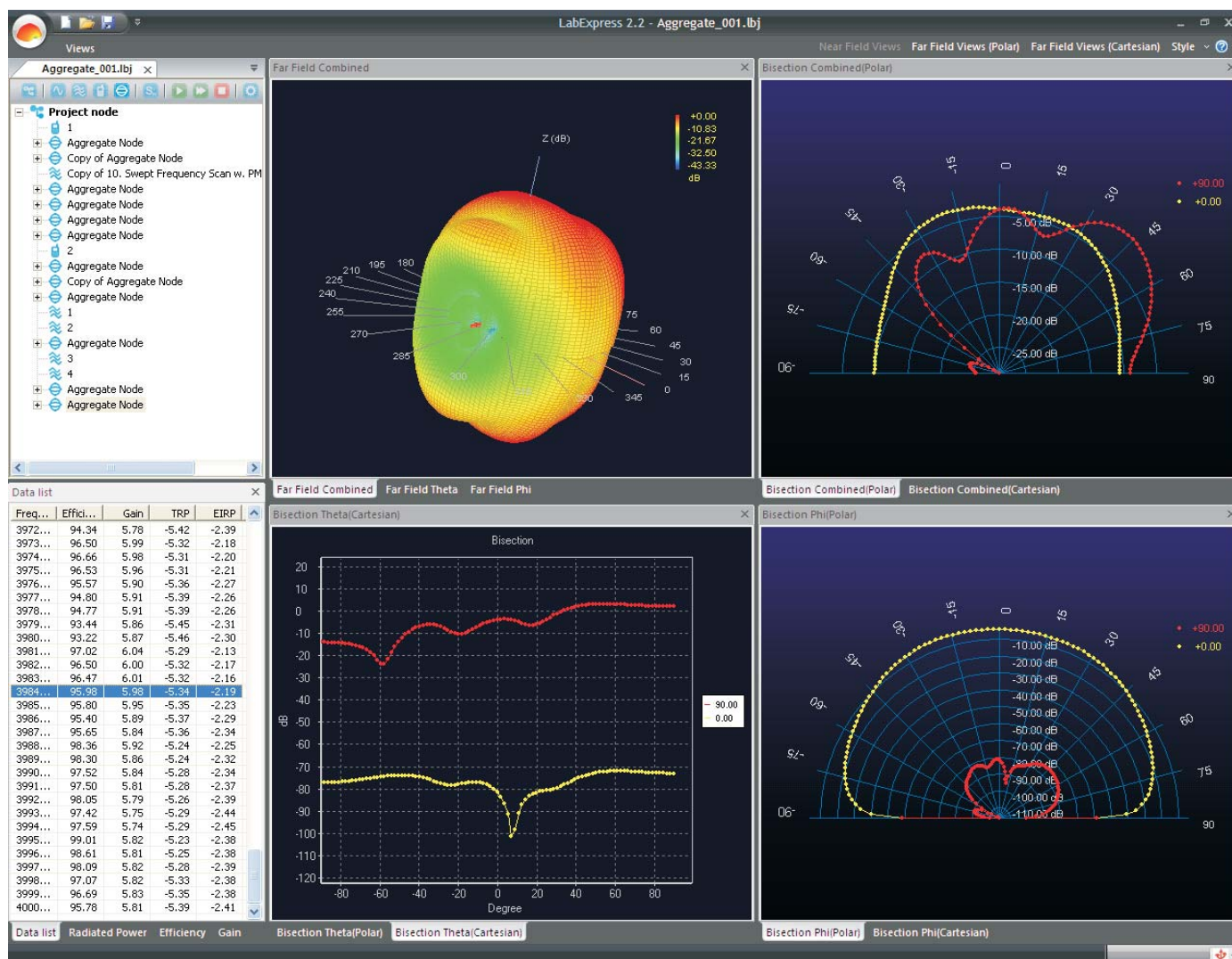
Lead Customers



www.emscan.com



Features



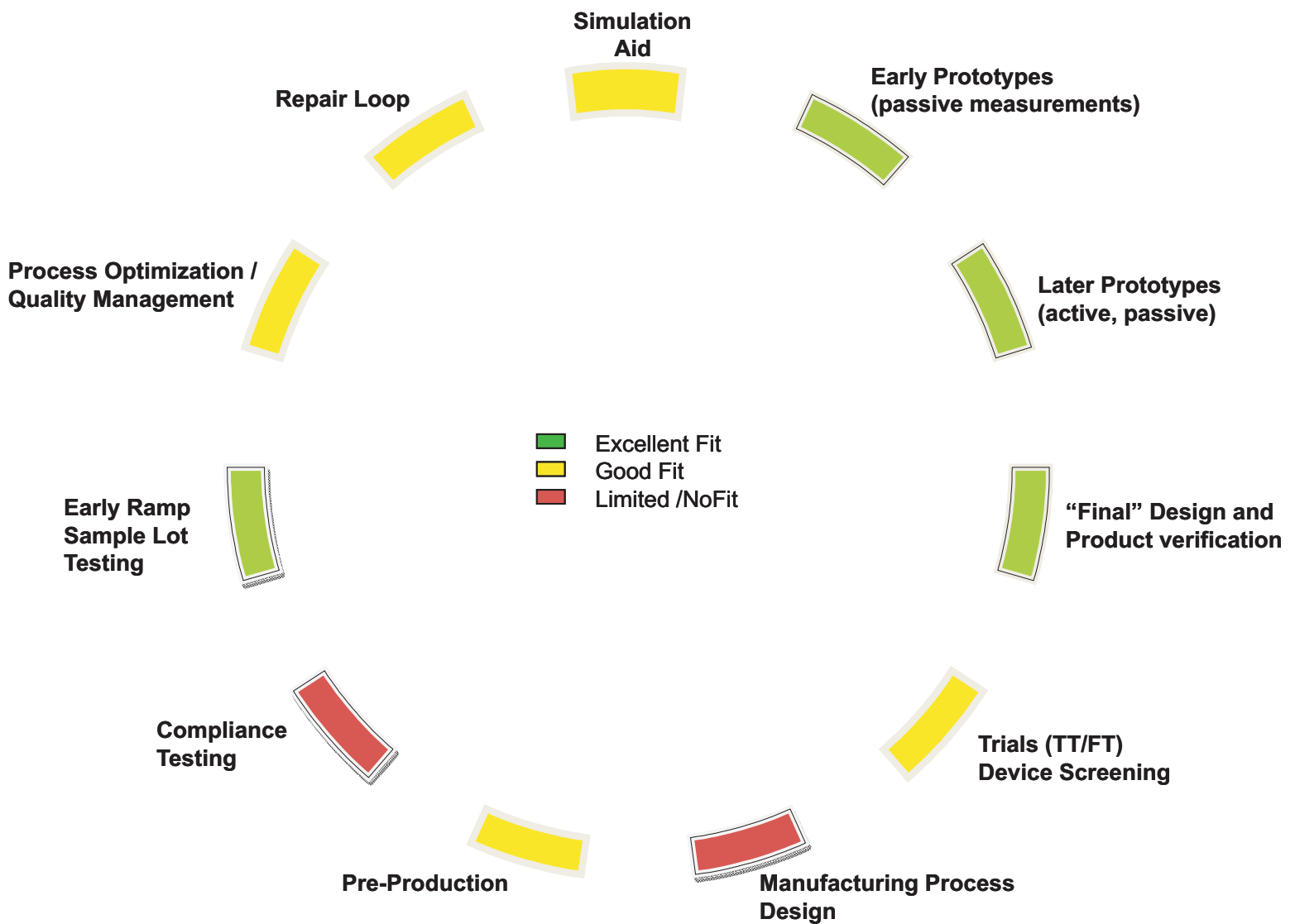
Optimized for designer use in a lab environment

- Ease of Use (unpack and use in 30 min.)
- Results highlight radiator behavior & unwanted coupling mechanisms
- Optimize embedded antenna performance
- Tune/optimize complex antenna structures e.g. MIMO

Very Competitive vs Traditional solutions (Chambers)

- Measurements take from 1% to 10% of the time
- Purchase price typically : < 30%
- Est. recurring cost of ownership savings vs competition of > \$100k / year

Application Segments - Product Cycle Fit



Solution Attributes

Specification

High Accuracy Radiated Power Measurements	EIRP Typically ± 1.5 dB
High Measurement Repeatability	± 0.2 dB (temp, time, DUT position offsets)
Captures other important parameters	NF Distributions (Amp, Phase), FF Patterns, FF Bisections, Radiated Power, Measure S11, Calculate Gain and Efficiency
Broad Frequency Coverage	700 MHz to 6.0 Ghz
Fast Measurement Cycle Time	< 2 sec for a complete measurement test cycle
Accommodates a variety of modulation formats	CW, CDMA, GSM / Edge, B/T, 802.11, UMTS variants
Scanner Size	~30 x 23 x 8 cm
Golden sample store and comparison capabilities	Sample lot testing rules and comparisons Production test rules and comparisons
Unshielded, side by side testing	Yes, with coordination of channels and PCL levels
Usable for a variety of wireless devices	Cellular, WiFi, WiMax, GPS, Custom applications
Optimize MIMO antenna designs	Immediate feedback: phased array designs

Applications

Embedded Antenna and Phased Array Designs

3G and 4G Cellular Mobile Devices Design and Production Test

Wi-Fi and Wi-Max (MIMO) Devices Design and Production Test

Custom small form factor designs

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