

MMEXIO

Webinar

How can near-field measurement revolutionize our EMC analysis?

Speaker: Maxime Blin – Software Developer







- ≥ 30 Min Presentation
- ➤ 15 Min Questions





Rules

- > Webcam and microphones are disabled
- ➤ Use the chat to ask questions during the presentation (english only)
- ➤ My colleagues will provide the answers





Webinar Agenda

- 1. Who is Nexio
- 2. Near-field measurements Introduction
- 3. Near-field measurements Solution
- 4. Business Case

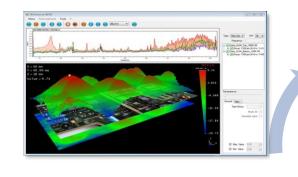




Since 2003: Electromagnetism is our thing

INTERFERENCES

EMC Lightning ESD



Products Test & Mesurement

every labs are different

PROPAGATION

Antenna Radio Frequency Stealthiness (RCS)

Employees: 90 – Turnover: 7M€ 250 Clients- 25 countries

Products Simulation

Analysis Simulation

Tests

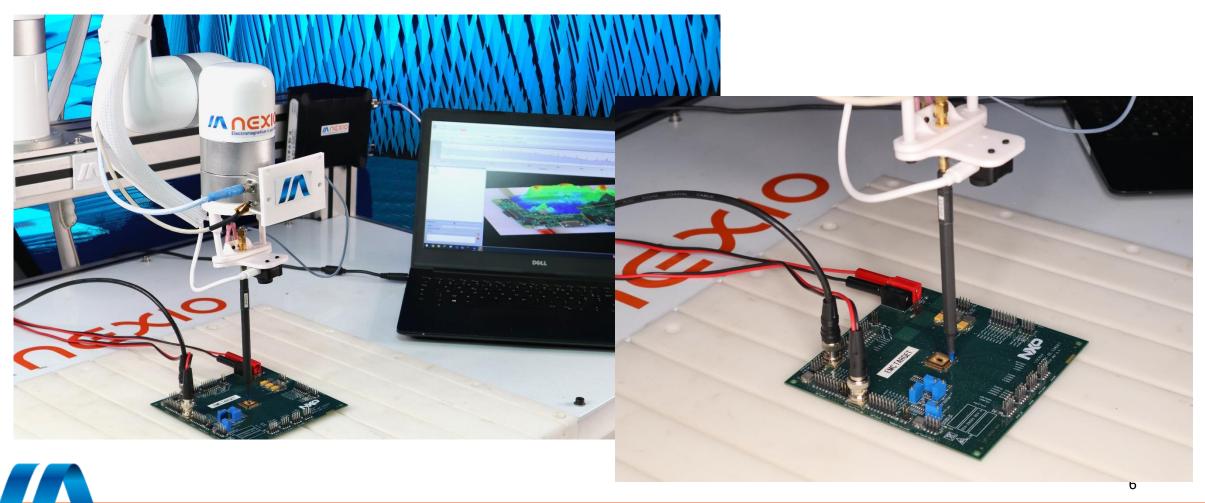
Engineering

15 R&D Projects since 2008



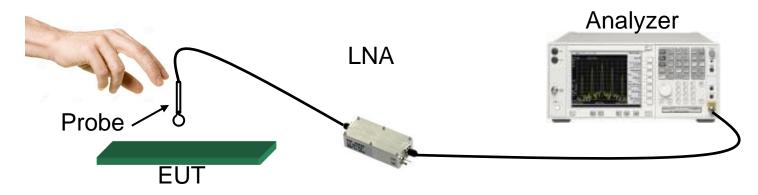


Why Near-field measurement?

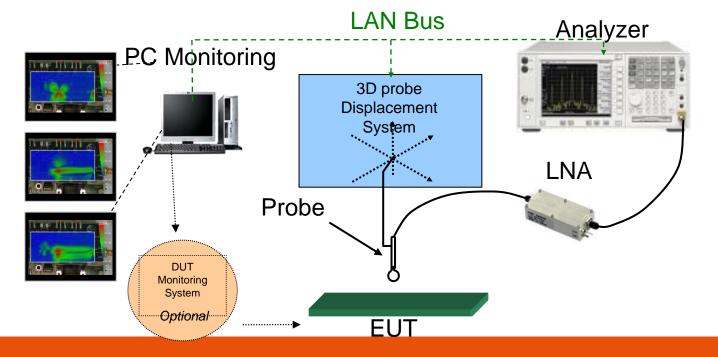




Before the near field scanner system



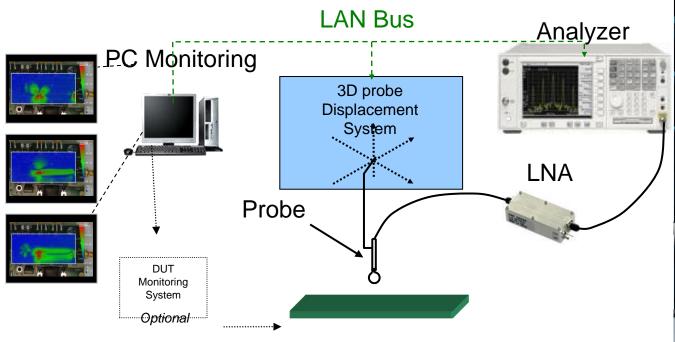
Today ...

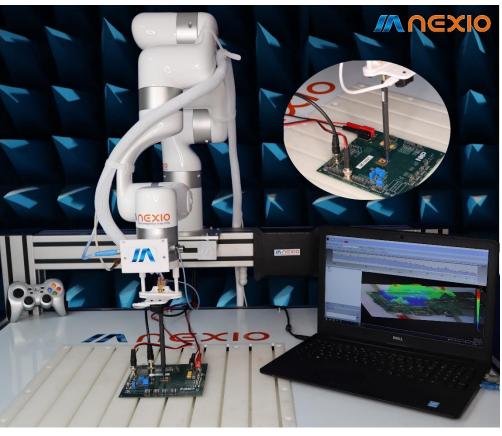






Near field Scanner







Height

Product Calibration

In this step, you will change the calibration of the product
You must match 3 points of the image with 3 points of the scanner.

Probe :	17_Coax46-D4.5t-Hz-Coax46-D4	.5t
---------	------------------------------	-----

	11 1100	IN THE RESTRICT OF THE COURSE OF		
v	Informations			
	Orientation	0		
	Measured Fie	ld		
	Unit	dBμNm		
~	Measuring Point			
	DeltaX	0		
	DeltaY	0		
	Delta Z	45,75		
~	Probe Dimensions			
	Min X	0		
	Max X	0		
	Min Y	0		
	Max Y	0		

46,5

Point 1

	New	Old	
x :		223,59 mm	Save

173,92 mm

23,00 mm

Product Copy Zone 1 Copy Zone 2

Product
Match the point 1 of the image with the point on the scanner, then click here.

Scanner control

Slow Fast Speed:

1 ÷ mm

Parameters

Step:

Scanner







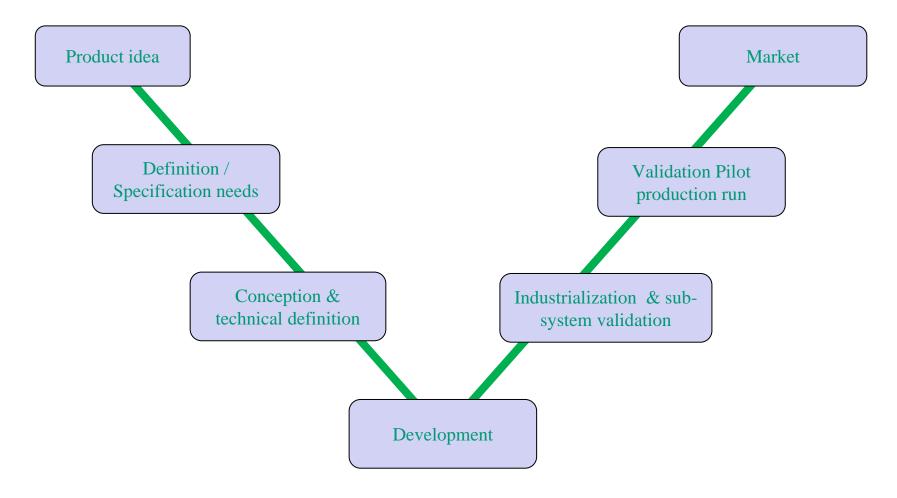
Manual

- 0 X

Cancel



Useful during the product life

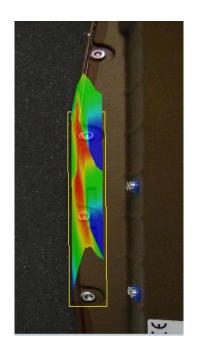


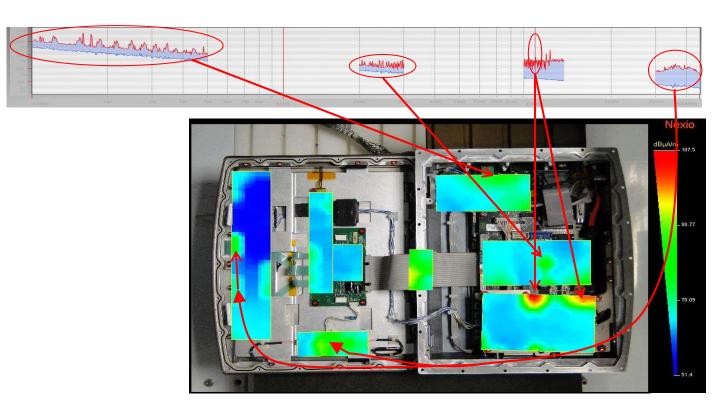




EMC Nonconformity Investigation (Radiated and Conducted Emission/Immunity, ESD)

Duration of study: 1 day

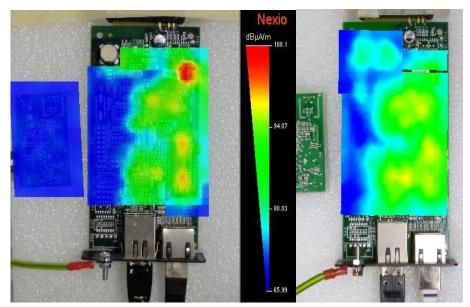






EMC Nonconformity Investigation (Radiated and Conducted Emission/Immunity, ESD)

Duration of study: 1 days



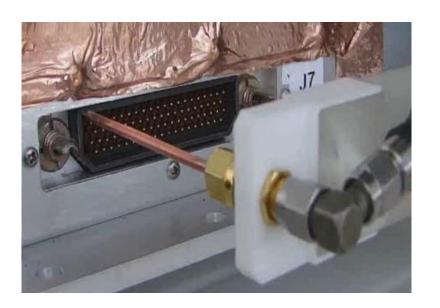
Second Run v1 (6 month after):

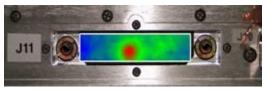
- ✓ Hot spot on flash memory -10dB
- ✓ Numeric noise on regulator -5dB
- ✓ EMI on numeric device <1dB
 </p>
- ✓ Reproducibility: 0.3dB between both measurements



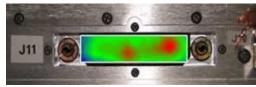


EMC Nonconformity Investigation (Radiated and Conducted Emission/Immunity, ESD)





Connecteur J11 - Ez- 498MHz-503MHz



Connecteur J11 - Ez- 560MHz-565MHz

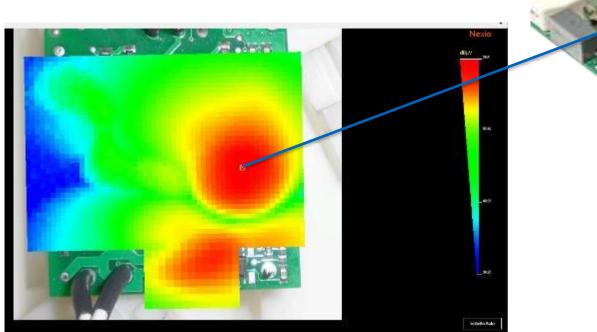




Evolutions management

(Second sources, obsolescence, evolution, production checking)

Duration of study: ½ day

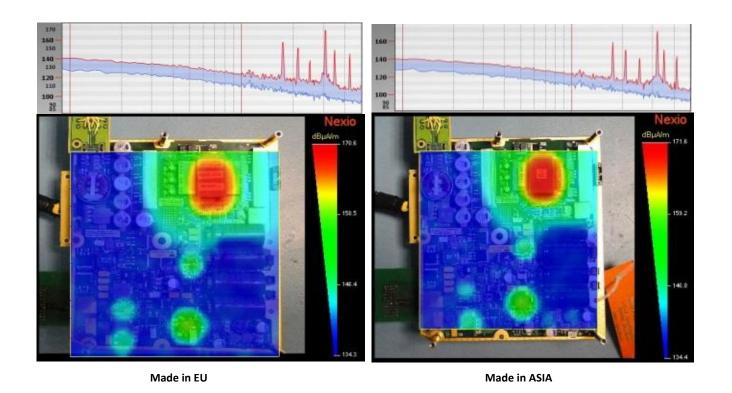






Evolutions management

(Second sources, obsolescence, evolution, production checking)

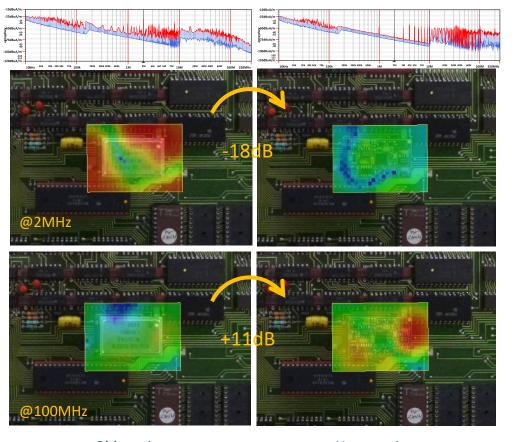






Evolutions management

(Second sources, obsolescence, evolution, production checking)

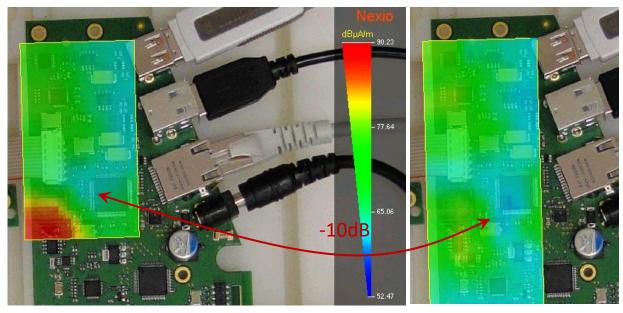






EMC design support

(Technology selection, Cost reduction, Protection optimization)



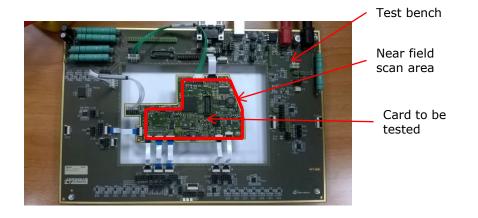
Reference

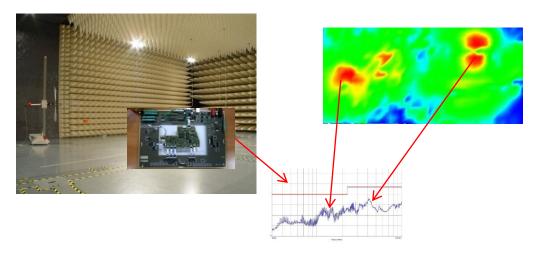
Reference+snubber





Industrialization and Validation of subsystems

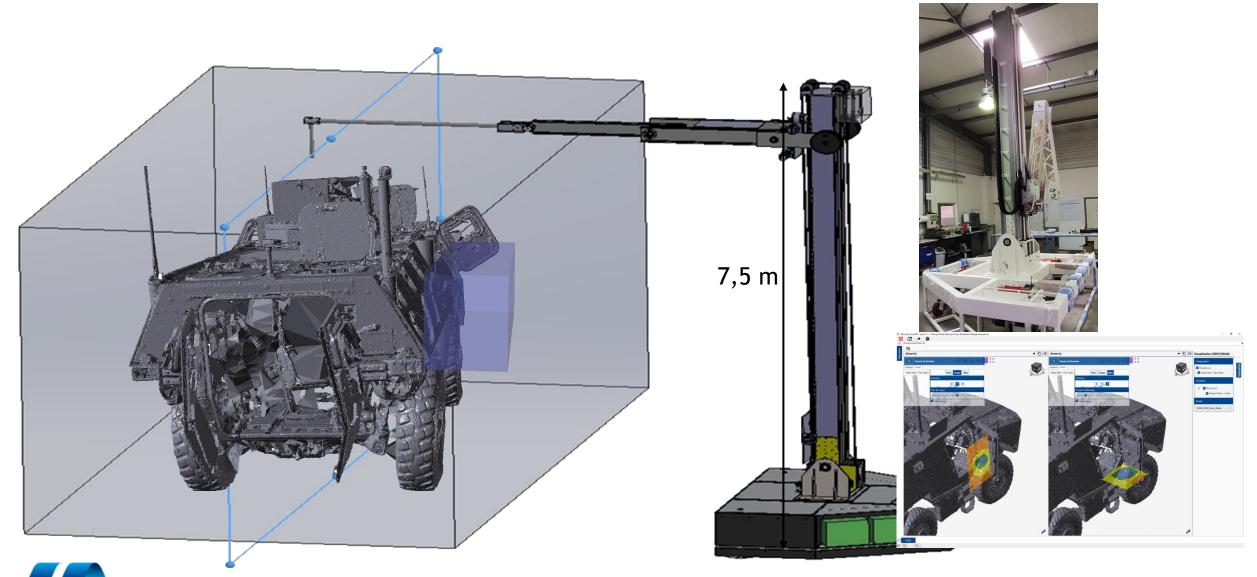




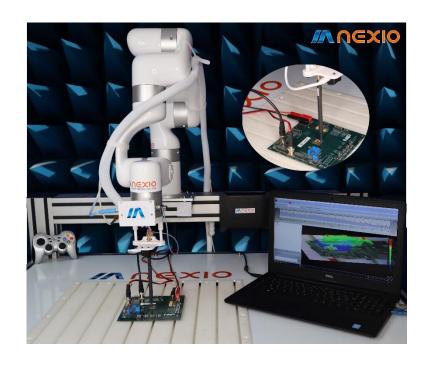


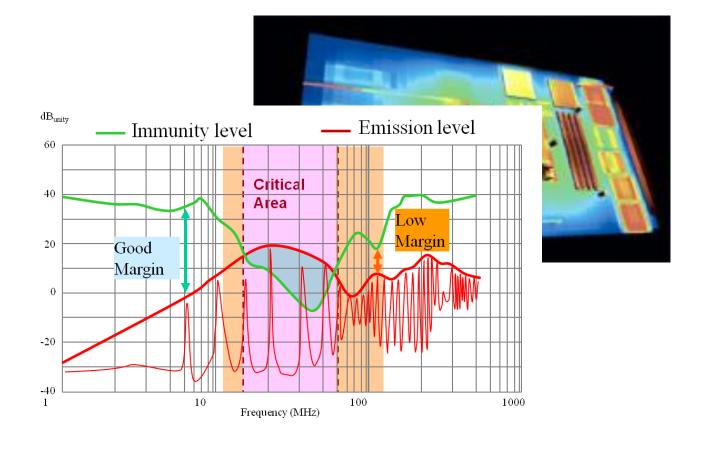


Another Near Field Scanner



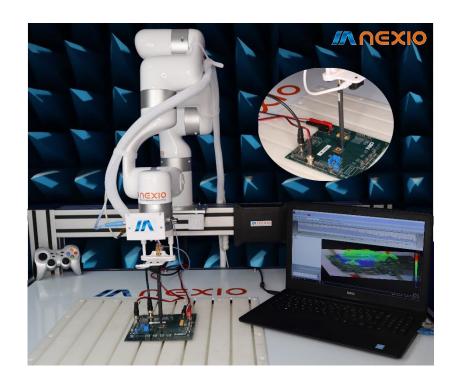


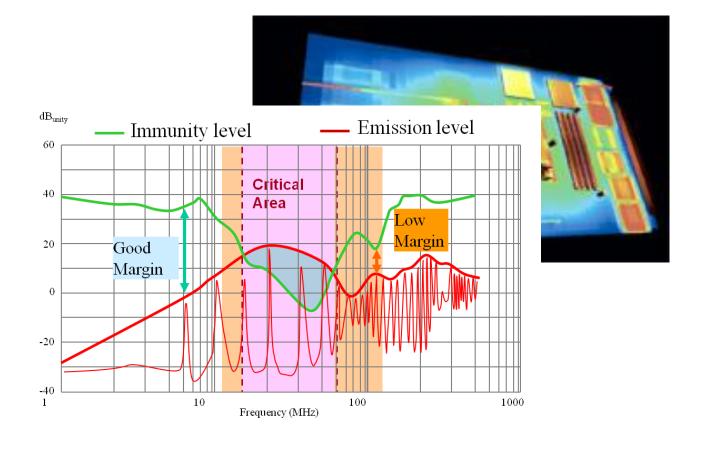






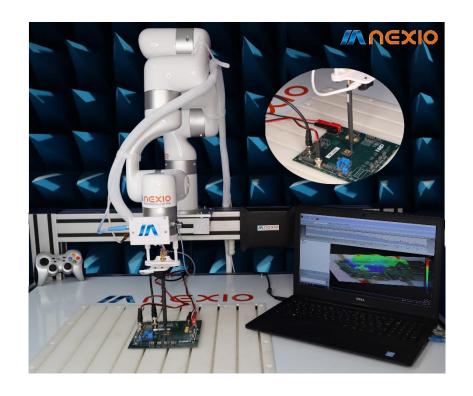


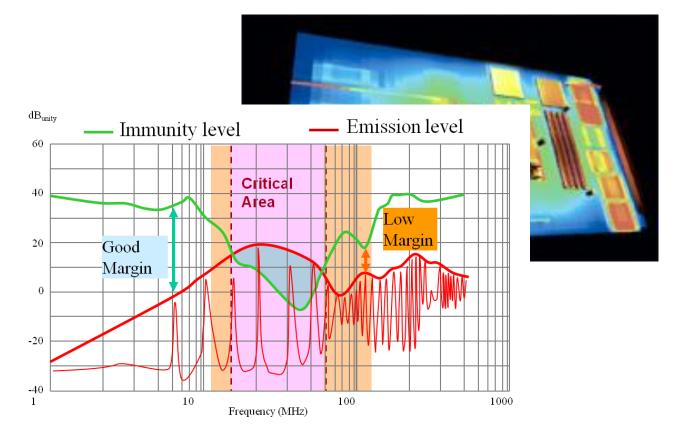






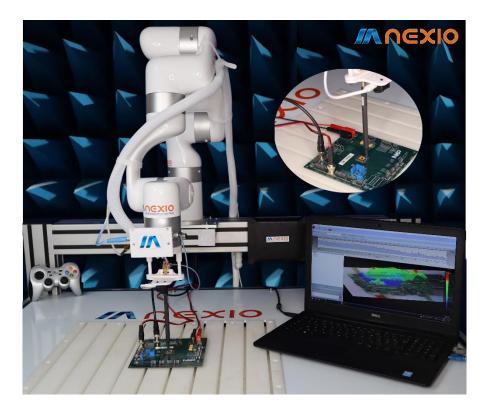


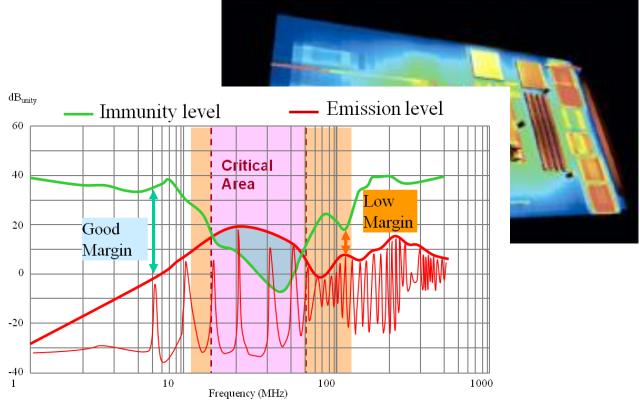








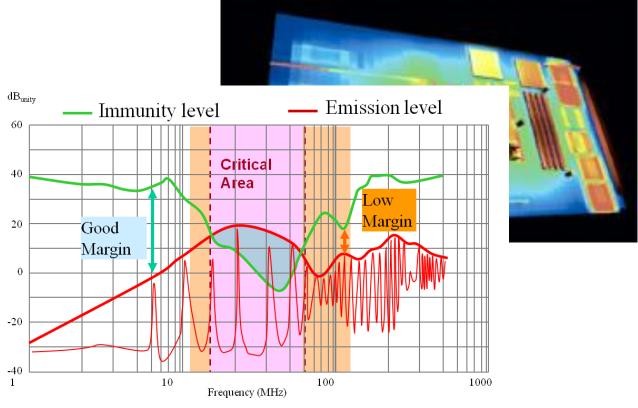








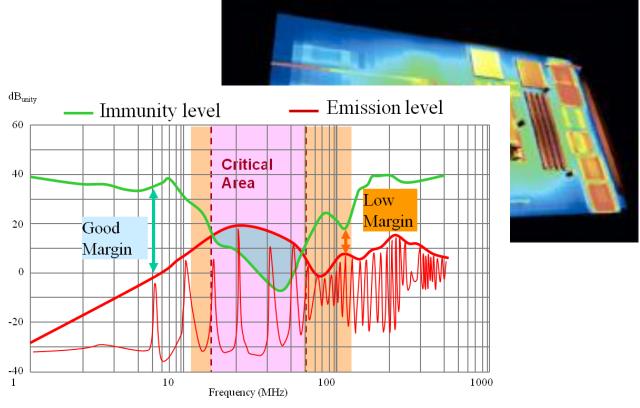






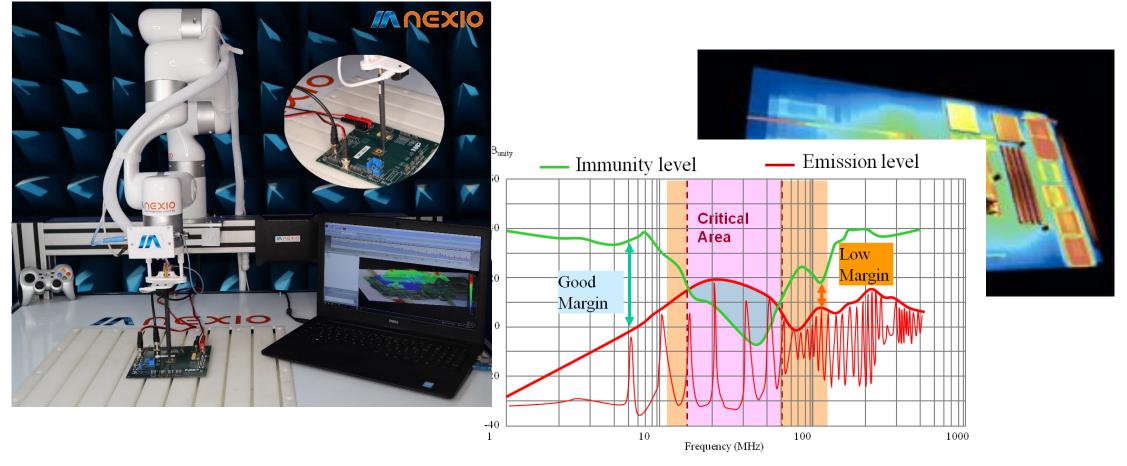






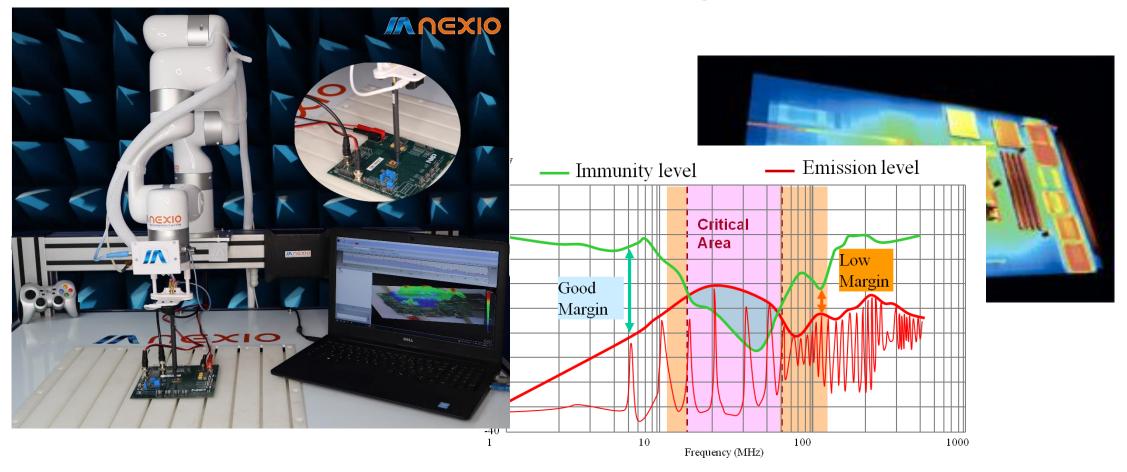






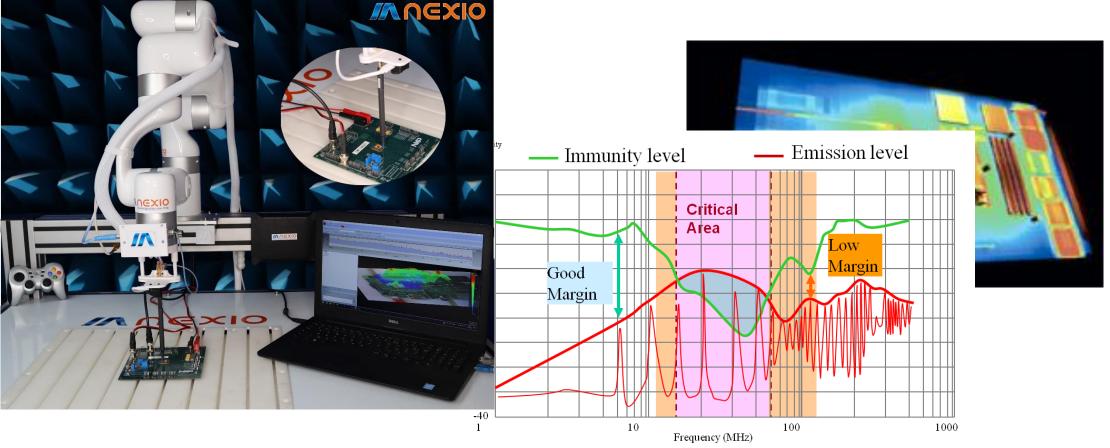






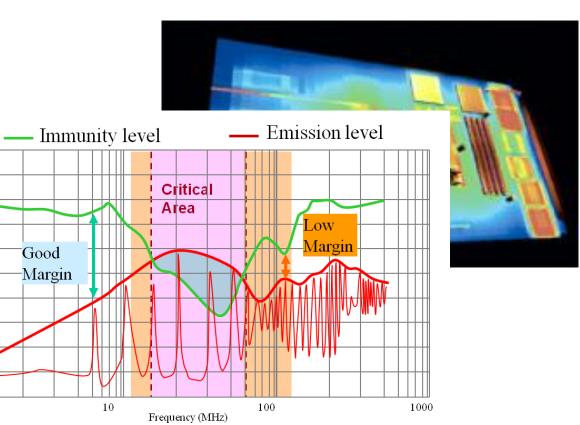








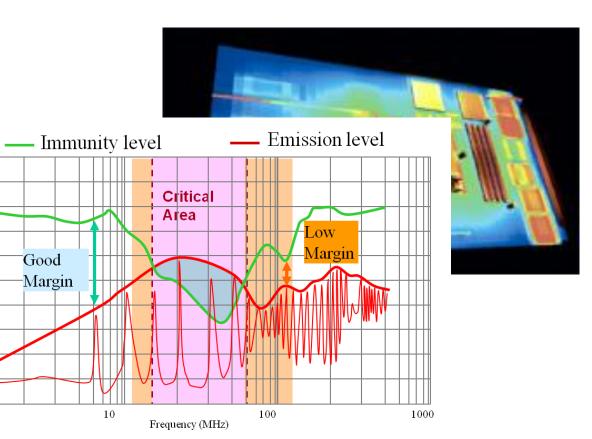








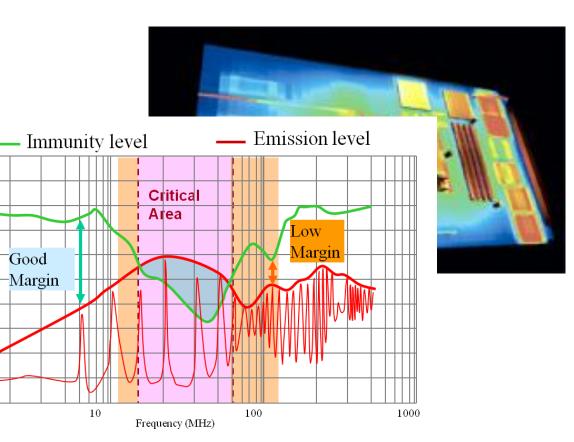
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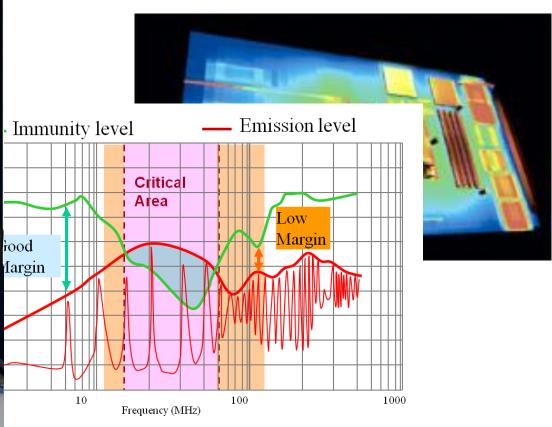
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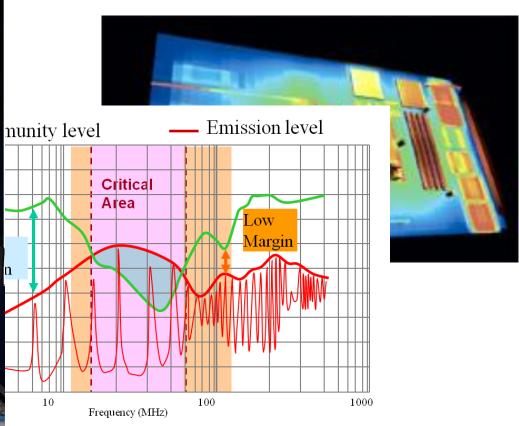


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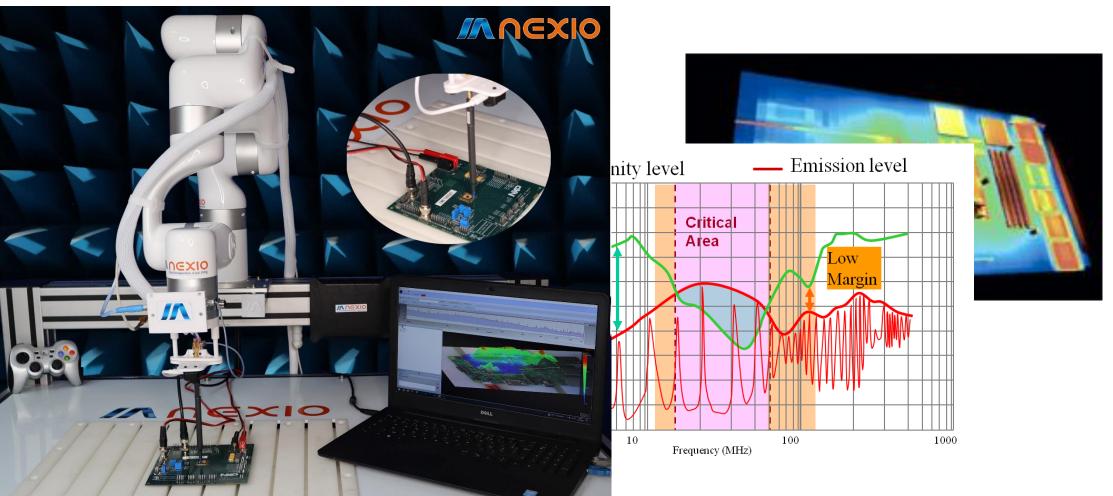




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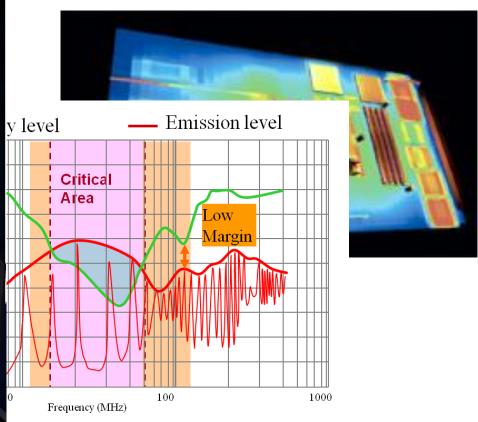




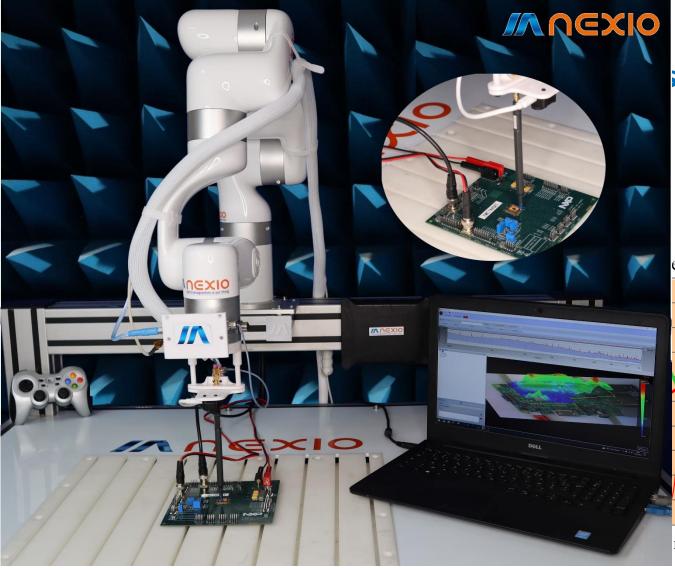


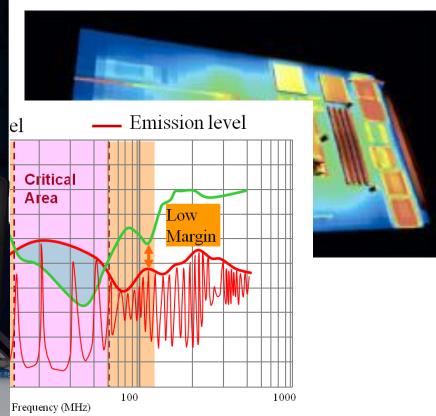


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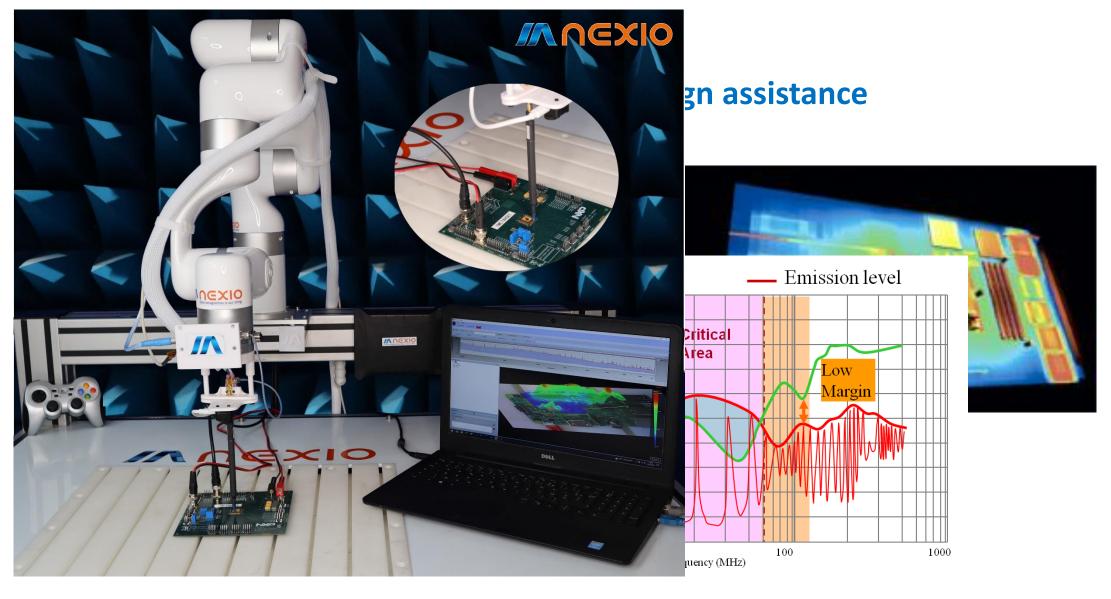






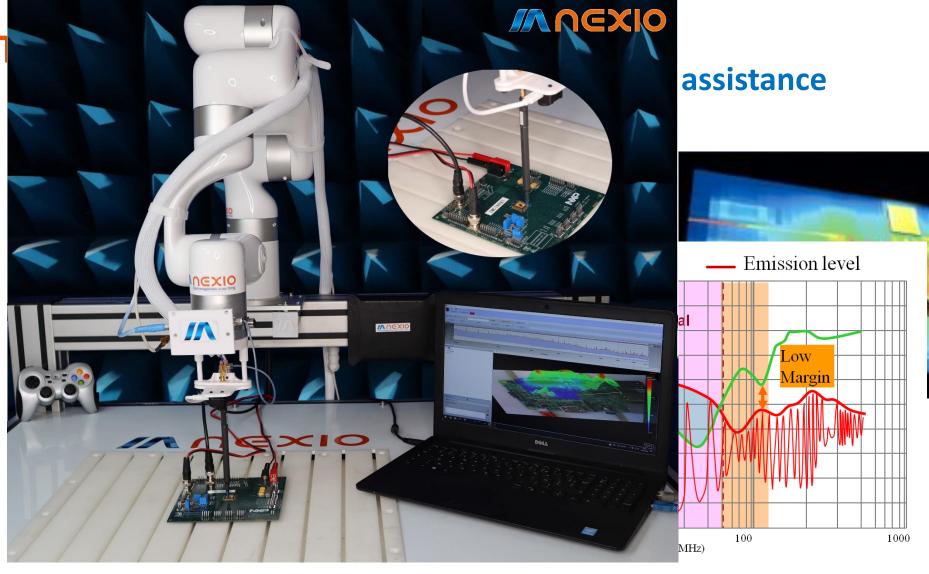






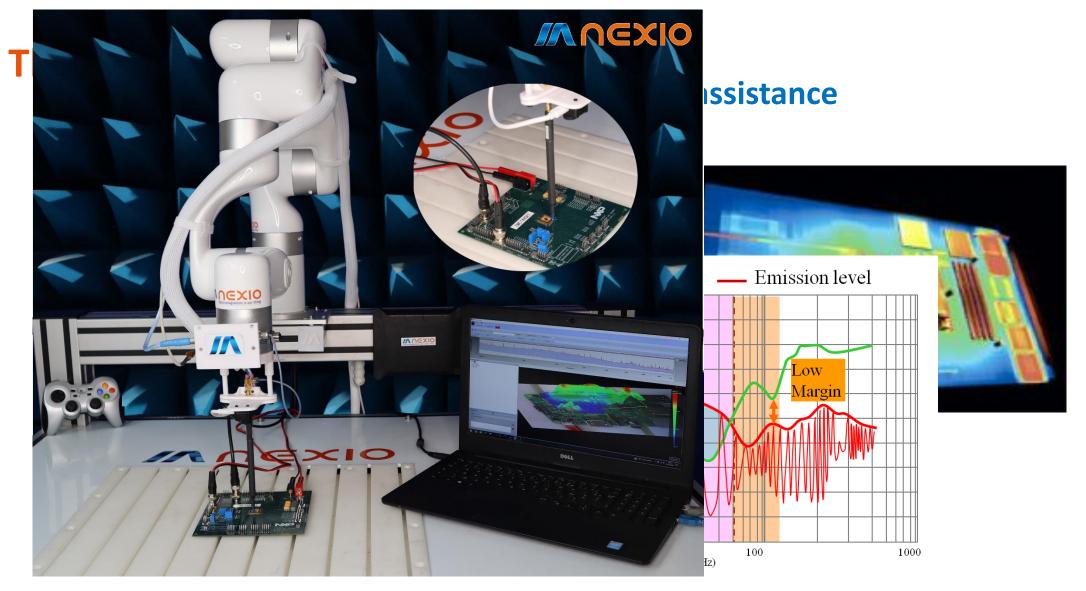






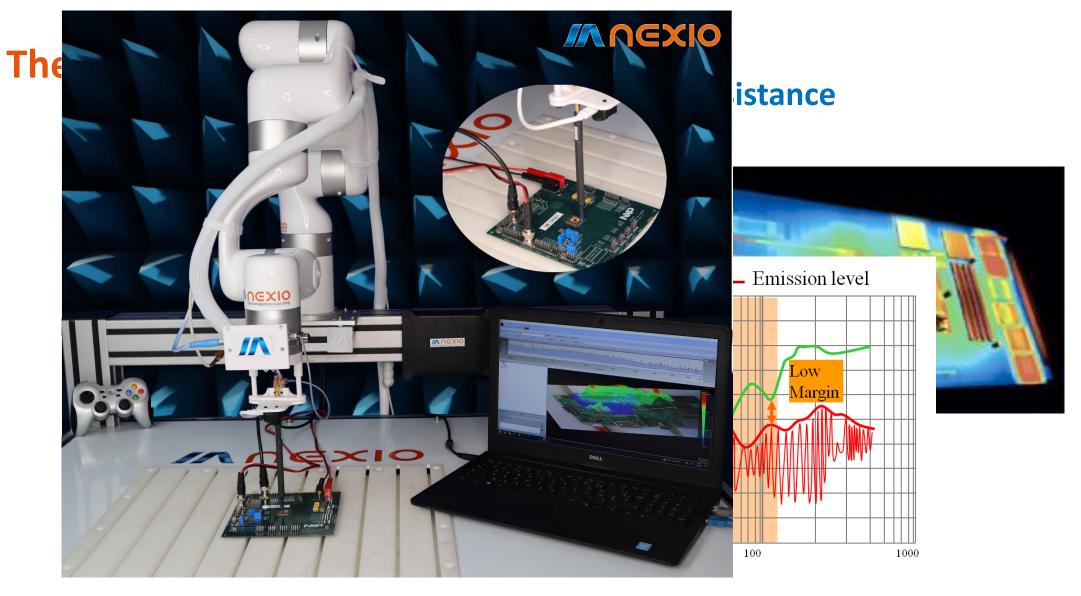








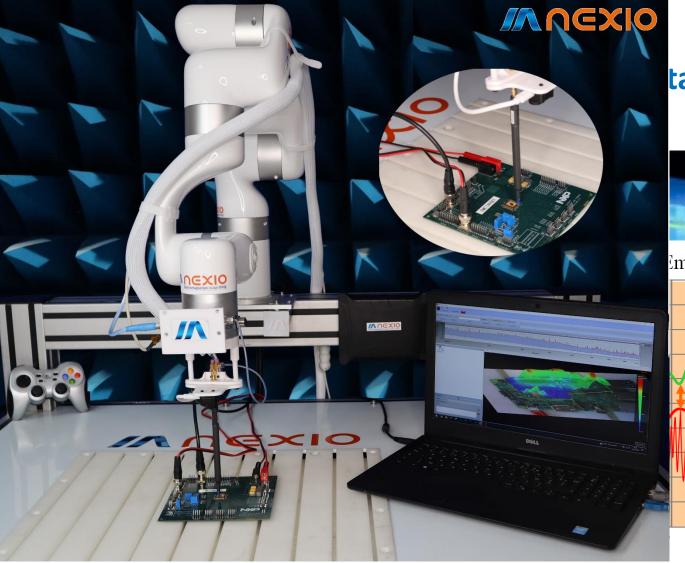




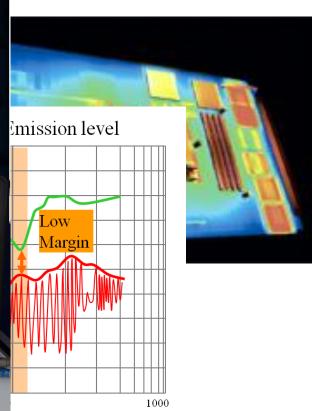




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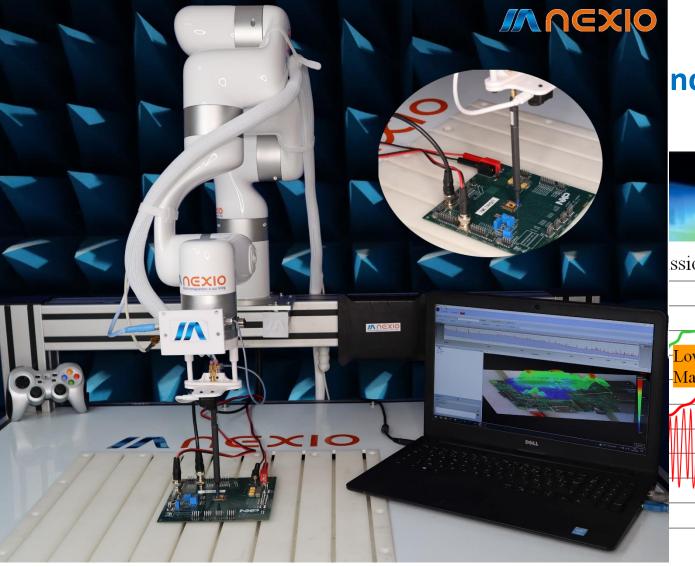
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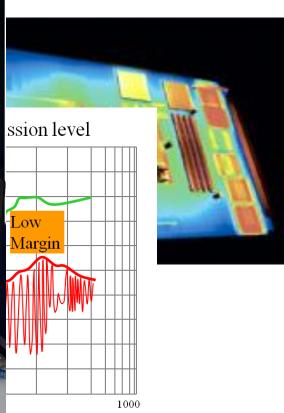




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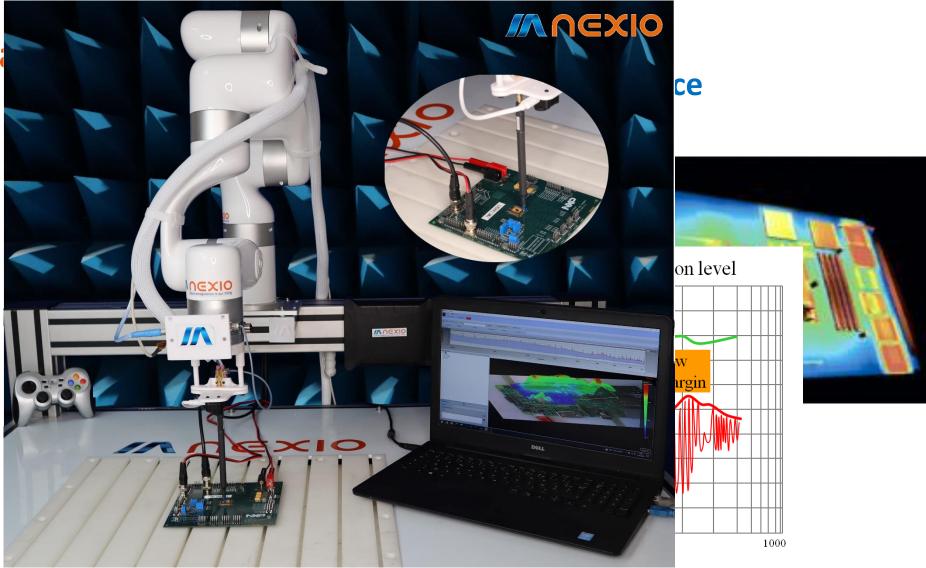


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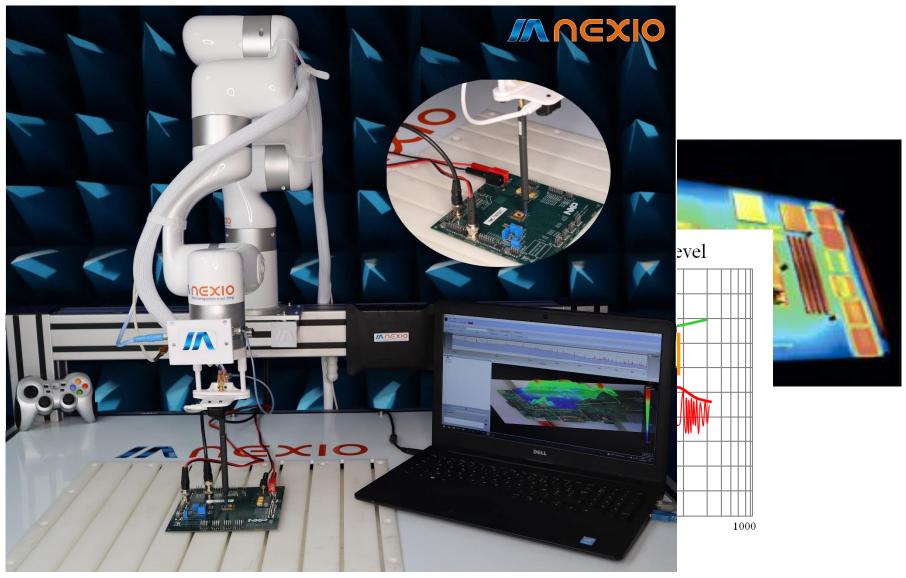


The Go



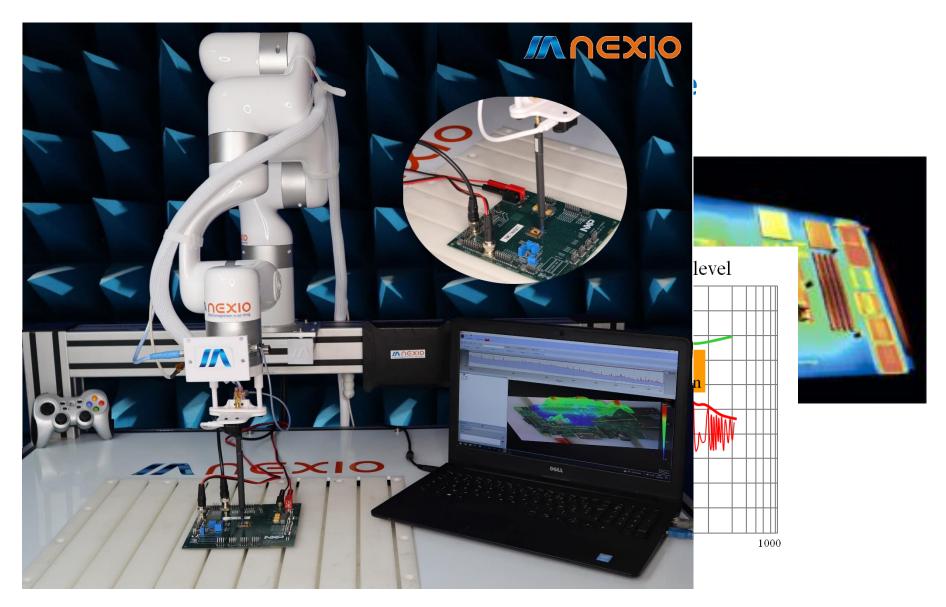






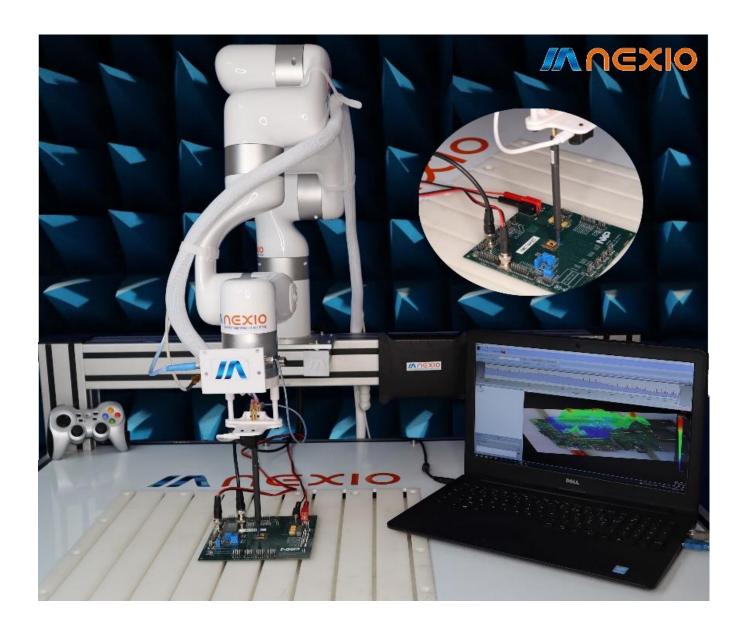
















To go further

Contact us for quotation

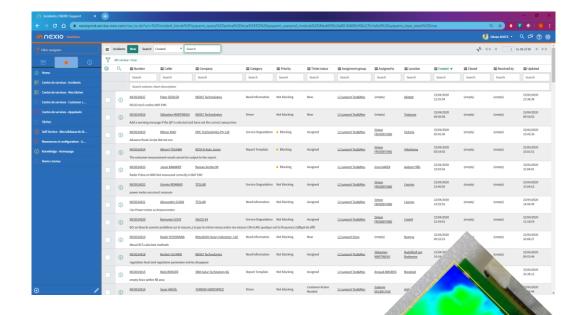


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Thank you for your participation!

Any questions?



