EMC – CISPR 16

Radiated Emission Proficiency Testing
Information Sheet

The purpose of this PT round is to assess the competence of laboratories in performing measurements under standardized conditions and to support continuous improvement and compliance with international standards in the field of EMC interference field strength – radiated emission according to CISPR 16-2-3.

Scope

Testing field	Electromagnetic compatibility
Test item	Comb generator
Frequency range	30 MHz – 1 GHz
Test sites	OATS, SAC
Test distance	10 m
Expected uncertainty of assigned value (k=2)	< 3.5 dB

Participation requirements

This PT is developed for ISO/IEC 17025 accredited laboratories. To maintain metrological traceability, all participants shall use calibrated equipment for the subject of assessment.

Schedule

Round	RR003
Round start	Sep. 2027
Duration of measurement slots	1 week
Logistics between measurement slots	2 weeks
Expected participants	5 - 8
Draft report	4 weeks after last result submitted
Final report	4 weeks after draft report

Participants will be contacted before start of the round for time slot assignment.

Proficiency test item

The proficiency test item, a comb generator, will be made available by Seibersdorf Laboratories.

Measurements

The measurement of the electric field strength is performed according to CISPR 16-2-3 on a test site with conducting ground plane. A height scan between 1 m and 4 m shall be performed and the maximum voltage recorded. Due to the circular H-field pattern of the test item, a rotation of the turntable is not required and should not be carried out. The item shall be measured in the frequency range from 30 MHz to 1 GHz at various frequencies.

Results

Each participant will be assigned a unique identification code. All results will be treated confidentially and reported anonymously in the final summary report. The assigned values will be consensus values and performance will be assessed using the E_n score method.

Confidentiality

Participants shall treat all information obtained within this proficiency testing round as confidential.

Contact

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