



COST Action IC 1407

“Advanced Characterisation and Classification of Radiated Emissions in Densely Integrated Technologies (ACCREDIT)”

WG-4: Guidelines for the formulation of standards
(activity progress)

Barcelona, February 8th, 2018

V. Mariani Primiani



COST is supported by
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Horizon 2020

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Summary of Angers meeting decisions (Sept. 4th 2017)

- Chapter assignment to WGs
- Chapter planning proposals expected from each WG Chair
- P2718 officer designations:
 - Chair: Valter Mariani Primiani
 - Vice Chair: Dave Thomas
 - Secretary: Franco Moglie
- On line meeting of P2718 on December 12 to discuss/approve chapter plans (**Done**)
- A doddle to choose the IEEE EMCS conference for the second face-to-face meeting (2018) has been **done**. The Long Beach Symp. was chosen
- Face-to-face P2718 meeting on February 2018 in conjunction to the COST meeting (**this afternoon**)
- Round Robin Test starts with traditional measurement techniques firstly (for future comparison)





Niš. Meeting in October

- No particular decisions were taken (limited number of participants)
- A further encouragement to participate to the guide development was done





Chapter assignment to WGs for the P2718 Guide

- | | |
|---|------------------|
| 4. Preparing for emission measurements – preliminary procedures | WG 4 |
| 5. Measurement instrumentation | WG 2 |
| 6. Measurement uncertainty | WG 4 |
| 7. Test procedures | WG 2 |
| 8. Characterisation | (WG1 and WG3???) |
| 9. Quality assurance technical report | WG 4 |
| Annex A: mathematical formulas for NF | WG 1 & WG 3 |
| Annex B: mathematical formulas for FF | WG 1 & WG 3 |

A discussion started during the
P2718 on-line meeting in
December

Not yet started

To be discussed this afternoon





Round Robin Test using traditional methods

Valter Mariani Primiani

Da: Frank Leferink <frank.leferink@utwente.nl>
Inviato: Thursday, September 28, 2017 3:31 PM
A: David Thomas; damienne.bajon@isae.fr; davy.pissoort@kuleuven.be;

Dear All,

As was mentioned during the meeting we had in Angers: we have sufficient budget for many Short Term Scientific Missions (STSM). We agreed that, if possible, these should be focused on a sort of "Round Robin Test" (RRT). RRT is normally focusing on the similarities between test houses using the same test method. Our "sort of RRT" will be focused on the similarities between test methods.

The aim of this message is to initiate more STSMs. Please make use of these budgets! The procedure is shown in the attached document.

Framework for the RRT:

1. Use the STSM funding to perform the measurements at other institutes
2. Use the devices (Arduino) from the University of Nottingham
3. Reference test standard EN55022 (and if possible also towards higher frequencies)
4. For all frequencies Pk and Av, for 30 max frequencies also QP
5. Conversion of measurement data to the EN55022 via for instance IEC 61000-4-20 annex H (?), IEC 61000-4-21
6. Presentation of measured data referred to 55022
7. Available sites with capabilities:
 - York: reverberation chamber
 - Nottingham: NF scan, GTEM
 - Wroclaw: RC, anechoic, semi-anechoic
 - Twente: VIRC, within THALES also the others, but dependent of availability

- Munich: NF
- Delta: RC, anechoic, semi-anechoic
- NXP
and maybe others.

I suggest to plan ASAP!

Kind regards

Frank



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Round Robin Test using traditional methods

A	B	C	D	E	F	G	H	
1	COST IC 1407/IEEE_SA_P2718 ? Round Robin Test applying traditional methods							
2								
3	Order	Institution	Reference People	Method	Frequency range	Frequency step	Detector (Pk, Av, and 30 freq. In QP)	Correlation to distant E-field of E
4		York						
5		Nottingham						
6		Wroclaw						
7		Twente						
8		TUM						
9		Delta						
10		NXP						
11		USV, Suceava						
12								
13								
14								
15								





Dissemination activity

- Why don't propose a joint Workshop (IC 1407/P2718) during the next EMC Europe Conf. (Amsterdam) ?
- Usually many people of the COST Action attend this Conference
- Tentative title "Characterization of stochastic emissions: a new challenge for standardization"

