



EMCC Annual Report 2019

Help and advice to members is provided through the EMC Helpdesk and the EMC Matters forum. Several leaflets have been updated to supplement this advice. Requests for help have reduced and we may need to revise these arrangements.

Dealings with Ofcom We have been working with Ofcom making joint measurements of HF RFI from VDSL2 Broadband. Our report on this work has been on the RSGB website for some time. Ofcom's report recognises Electromagnetic Disturbance is caused by VDSL but claims it would not be proportionate to take enforcement action against it. RSGB met with Ofcom and requested a letter explaining their approach. Our President challenged their response in a reply to CEO of Ofcom. An EMCC sub-committee has been formed "Action against RFI" which is preparing plans for action to be taken. This rise in background levels impacts all radiocommunication services. We must mobilise our members to complain about problems caused by RFI to Ofcom. Leaflets are being prepared on the specifics to include in these complaints.

Standards development RSGB has been active in IARU, representing the Amateur Service on working groups developing emission standards (CISPR and CEPT). Technical Report (TR 16-4-4) describes a statistical model for how emission limits should be set to reduce the risk of unreasonably high RFI limits. This TR is under review and the committee has been asked to take into account new protection requirements from ITU. There will also be a new TR defining how complaints should be recorded and managed. Currently many complaints get filtered out at the Regulator level and very few get to CISPR. This can result in the CISPR committee members underestimating the extent of real-world problems.

We also work with BSI on national standards. This year we lobbied against the relaxation of the CISPR standard for household appliances, including induction cookers.

Wireless charging of Electric Vehicles (WPT-EV) The limits being proposed are about 30dB higher than we consider acceptable. We are still working with other radio services and the ITU-R, to get this emission limit amended to properly protect radiocommunications services.

Investigations Our main areas for future investigations after VDSL will be air source heat pumps and Wireless Power Transfer. We are doing WPT measurements at a test site in the UK with IARU. So far these have only been on phone chargers which typically don't appear to be a problem, but we note that pilot trials of kerbside WPT systems are planned and we will be monitoring these closely.

The EMCC presented "How to locate and identify common sources of RFI" at the RSGB Convention based on EMC leaflet 4 and on using an SDR and spectrum analyser to derive a signature for the RFI. Then using the signal strength and direction of this signature to locate the source.

A Diverse workload

The EMC Committee has only eight members who have been very busy. This level of effort is a strain on our resources and more EMCC members are needed if we are to continue this crucial work. Can you help?

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