

# EMC requirements for sound and television broadcast receivers and associated equipment

The ACMA has regulatory arrangements covering a wide range of equipment supplied to the Australian market. Products must comply with relevant standards made under these arrangements for radiocommunications, electromagnetic radiation (EMR), electromagnetic compatibility (EMC) and telecommunications.

## EMC standards for receivers

Sound and television broadcast receivers and associated equipment are covered by the EMC regulatory arrangements. The applicable EMC standard is AS/NZS CISPR 13. International standards CISPR 13 and EN 55013 are considered as equivalent, and test reports demonstrating compliance with these international standards are acceptable under the arrangements.

AS/NZS CISPR 13 applies to the generation of electromagnetic energy from sound and television receivers and from associated equipment for reception of broadcast and similar transmissions. The frequency range covered by this EMC standard extends from 9 kHz to 400 GHz. No measurements need to be performed at frequencies where no limits are specified.

'Sound broadcast receivers' are defined as appliances intended for the reception of sound broadcast and similar services for terrestrial, cable and satellite transmission, whether input signals are digital or analog.

'Television receivers' are appliances intended for the reception of television broadcast and similar services for terrestrial, cable and satellite transmissions, whether input signals are digital or analog.

'Associated equipment' relates to equipment either intended to be connected directly to sound or television broadcast receivers, or to generate or reproduce audio or visual information. They can be tuners with broadcast satellite receiving stage, and with demodulators, decoders, demultiplexers and encoders. Also included are audio amplifiers, infrared headphones and remote controls, audio tape recorders, compact disc players, camcorders, video tape players,

laser disc players, electrical organs, frequency converters, personal computer tuner cards and television broadcast receiver cards.

## Multifunctional equipment

According to the standard AS/NZS CISPR 13, multifunctional equipment subject to different clauses of this or other standards must be tested with each function operated in isolation, if this can be achieved without modifying the equipment.

Multifunctional equipment includes appliances with two or more functions in the same unit, for example, a radio that is also a digital clock, tape recorder or disc player.

## Compliance records

Under the EMC regulatory arrangements, compliance level 2 applies to receivers and associated equipment. For this level, the supplier must ensure that the product complies with an applicable standard and hold compliance records containing:

- a completed Declaration of Conformity;
- a product description; and
- a test report or technical construction file (TCF).

## Labelling

The supplier—an Australian manufacturer, an importer of products manufactured overseas or an agent—is responsible for ensuring products meet appropriate ACMA regulatory requirements and for applying the correct labels.

The C-Tick label is used on products to indicate compliance with the ACMA's radiocommunications, EMR and EMC standards. The A-Tick label is used to show compliance with telecommunications standards.

Products may be labelled with the C-Tick to meet either the radiocommunications or EMC regulatory arrangements. Receivers not covered by the ACMA's radiocommunications regulatory arrangements are covered by EMC regulatory arrangements.

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## More information

See the EMC web page for more information about [EMC C-Tick regulatory arrangements](#).

Information about the use of the [compliance marks,regulatory arrangements](#) and radiocommunications licensing is also on the ACMA website.

You can also contact any ACMA office or the Standards Section on (03) 9963 6800 or by email to [emc@acma.gov.au](mailto:emc@acma.gov.au).

*Please note: this document is intended as a guide only and should not be relied on as legal advice or regarded as a substitute for legal advice in individual cases.*