



Radiocommunications (Electromagnetic Radiation — Human Exposure) Amendment Standard 2020 (No. 1)

The Australian Communications and Media Authority makes this instrument under subsection 162(1) of the *Radiocommunications Act 1992*.

Dated: 9 April 2020

Nerida O'Loughlin
[signed]
Member

Linda Caruso
[signed]
~~Member~~/General Manager

Australian Communications and Media Authority

1 Name

This is the *Radiocommunications (Electromagnetic Radiation — Human Exposure) Amendment Standard 2020 (No. 1)*.

2 Commencement

This instrument commences at the start of the day after it is registered on the Federal Register of Legislation.

Note: The Federal Register of Legislation may be accessed free of charge at www.legislation.gov.au.

3 Authority

This instrument is made under subsection 162(1) of the *Radiocommunications Act 1992*.

4 Amendments

The instrument that is specified in Schedule 1 is amended as set out in the applicable items in that Schedule.

Schedule 1—Amendments

(section 4)

Radiocommunications (Electromagnetic Radiation — Human Exposure) *Standard 2014 (F2014L00960)*

1 Subsection 5(1) (after the definition of IEC 62209-2)

Insert:

IEC TR 63170 means:

- (a) *IEC TR 63170:2018 – Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz*, published by the International Electrotechnical Commission (IEC); or
- (b) if a later document published by the International Electrotechnical Commission (IEC) is expressed to replace the document mentioned in paragraph (a) – the later document.

Note *IEC TR 63170* may be obtained for a fee from a Standards Australia distributor listed on the Standards Australia website (<https://www.standards.org.au/search-for-a-standard>) or can otherwise be made available for viewing on prior request at an ACMA office, subject to licensing conditions.

2 Paragraph 6(2)(f)

Omit “subsections 9(1), 10(1) or 11(1)”, substitute “subsections 9(1), 9B(1), 10(1), 10A(1) or 11(1)”.

3 Subsection 8(1)

Omit “section 9, 10 or 11”, substitute “section 9, 9B, 10, 10A or 11”.

4 Subsection 8(2)

Omit “section 9, 10 or 11”, substitute “section 9, 9B, 10, 10A or 11”.

5 Section 9 (heading)

After “proximity to the human ear”, insert “– 300MHz to 6GHz”

6 Section 9A (heading)

After “proximity to the human ear”, insert “– 300MHz to 3GHz”

7 After section 9A

Insert:

9B Measurement methods for performance standards: aware user device or non-aware user device in close proximity to the human ear – 6GHz to 100GHz

- (1) Subject to section 9C, this section applies to an aware user device or non-aware user device to which this Standard applies that:
 - (a) is designed to be used or held with the radiating part of the aware user device or non-aware user device in close proximity to the human ear; and
 - (b) transmits on a frequency above 6GHz but less than or equal to 100GHz.

- (2) The measurement methods to determine if the aware user device or non-aware user device meets the standard for performance in subsection 8(1) or 8(2) are the measurement methods identified in IEC TR 63170.
- (3) A test report must comply with the requirements in IEC TR 63170 which contained the measurement methods identified in accordance with subsection (2).

Note In circumstances where a device transmits on frequencies between 300MHz to 6GHz (inclusive) and above 6GHz but less than or equal to 100GHz, both sections 9 (subject to section 9A) and 9B may apply.

9C Transitional arrangements for measurement methods for performance standards: aware user device or non-aware user device in close proximity to the human ear – 6GHz to 100GHz

- (1) This section applies to an aware user device or non-aware user device to which this Standard applies that:
 - (a) is designed to be used or held with the radiating part of the aware user device or non-aware user device in close proximity to the human ear; and
 - (b) transmits on a frequency above 6GHz but less than or equal to 100GHz; and
 - (c) was either:
 - (i) manufactured or imported not later than 3 months after the commencement of the *Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2020 (No. 1)*; or
 - (ii) altered or modified in a material way not later than 3 months after the commencement of the *Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2020 (No. 1)*.
- (2) This Standard does not set a measurement method to determine if an aware user device or non-aware user device to which this section applies meets the standard for performance in subsection 8(1) or 8(2).

8 Section 10 (heading)

After “**from the human body**”, insert “**– 30MHz to 6GHz**”.

9 After section 10

Insert:

10A Measurement methods for performance standards: aware user device or non-aware user device 20cm or less from the human body– 6GHz to 100GHz

- (1) Subject to section 10B, this section applies to an aware user device or non-aware user device to which this Standard applies that:
 - (a) is designed to be used or held with the radiating part of the aware user device or non-aware user device in close proximity to the human body but not more than 20cm from the human body; and
 - (b) transmits on a frequency above 6GHz but less than or equal to 100GHz; and
 - (c) is not mentioned in subsection 9B(1).
- (2) The measurement methods to determine if the aware user device or non-aware user device meets the standard for performance in subsection 8(1) or 8(2) are the measurement methods identified in IEC TR 63170.
- (3) A test report must comply with the requirements in IEC TR 63170 which contained the measurement methods identified in accordance with subsection (2).

Note	In circumstances where a device transmits on frequencies between 30MHz to 6GHz (inclusive) and above 6GHz but less than or equal to 100GHz, both sections 10 and 10A (subject to section 10B) may apply.
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10B Transitional arrangements for measurement methods for performance standards: aware user device or non-aware user device 20cm or less from the human body – 6GHz to 100GHz

- (1) This section applies to an aware user device or non-aware user device to which this Standard applies that:
 - (a) is designed to be used or held with the radiating part of the aware user device or non-aware user device in close proximity to the human body but not more than 20cm from the human body; and
 - (b) transmits on a frequency above 6GHz but less than or equal to 100GHz; and
 - (c) is not mentioned in subsection 9B(1); and
 - (d) was either:
 - (i) manufactured or imported not later than 3 months after the commencement of the *Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2020 (No. 1)*; or
 - (ii) altered or modified in a material way not later than 3 months after the commencement of the *Radiocommunications (Electromagnetic Radiation – Human Exposure) Amendment Standard 2020 (No. 1)*.
- (2) This Standard does not set a measurement method to determine if an aware user device or non-aware user device to which this section applies meets the standard for performance in subsection 8(1) or 8(2).