

Appendix A – Licence conditions 1800 MHz band

This document is a non-binding translation to English of the Swedish appendix (to the Open Invitation Part 2) published 28 May 2025.

Area of use and technical conditions

1. The licence is national.
2. The licence shall be used for terrestrial systems which can provide mobile broadband services.
3. Frequency Division Duplex (FDD) technology shall be used as the duplex method for downlink and uplink transmission respectively.

Base stations are radio transmitters whose transmission shall be in the downlink direction in the frequency range 1805–1875 MHz (Downlink FDD).

Terminals are radio transmitters whose transmission shall be in the uplink direction in the 1710–1780 MHz frequency range (Uplink FDD).

Repeaters¹ shall comply with the respective conditions for base stations and terminals.

4. In the frequency range 1805–1880 MHz, outside the assigned frequency block, base stations shall comply with power limits pursuant to Table 1.

Table 1 Power limits in the frequency range 1805–1880 MHz, outside the assigned frequency block

BEM ² element	Frequency range	Maximum mean EIRP ³ (non-AAS) per antenna	Maximum mean TRP ⁴ (AAS) per cell (*)
Transitional region	0 to 0.2 MHz outside the block edge	32.4 dBm/(0.2 MHz)	17.4 dBm/(0.2 MHz)

¹ Repeaters are radio transmitters that transmit both in the downlink and uplink direction.

² BEM – Block Edge Mask. BEM is a spectrum mask that defines power limits as a function of the frequency distance from the edge of a frequency block assigned to a license holder.

³ EIRP – Equivalent Isotropically Radiated Power.

⁴ TRP – Total Radiated Power.

	0.2 to 1 MHz outside the block edge	13.8 dBm/(0.8 MHz)	4.7 dBm/(0.8 MHz)
	1 to 5 MHz outside the block edge	5 dBm/MHz	-4 dBm/MHz
	5 to 10 MHz outside the block edge	12 dBm/(5 MHz)	3 dBm/(5 MHz)
Baseline	>10 MHz outside the block edge	3 dBm/MHz	-6 dBm/MHz
(*) In multi-sector base stations, the power limits apply to each of the individual sectors.			

5. If the licence holder has been assigned several contiguous frequency blocks, the restrictions on maximum average power (EIRP and TRP respectively) pursuant to condition 4 above apply only outside the contiguous frequency blocks.
6. The licence holder may, by agreement with other licence holders in 1710–1780/1805–1875 MHz, deviate from the conditions pursuant to condition 4 above, as far as the 1805–1875 MHz frequency range is concerned.
7. In the 1795–1805 MHz and 1880–1890 MHz frequency ranges, base stations shall comply with power limits as specified in Table 2.

Table 2 Power limits in the frequency ranges 1795–1805 MHz and 1880–1890 MHz

BEM element	Frequency range	Maximum mean EIRP (non-AAS) per antenna	Maximum mean TRP (AAS) per cell (*)
Additional baseline	0 to 0.2 MHz outside the block edge	32.4 dBm/(0.2 MHz)	17.4 dBm/(0.2 MHz)
	0.2 to 1 MHz outside the block edge	13.8 dBm/(0.8 MHz)	4.7 dBm/(0.8 MHz)
	1 to 5 MHz outside the block edge	5 dBm/MHz	-4 dBm/MHz
	5 to 10 MHz outside the block edge	12 dBm/(5 MHz)	3 dBm/(5 MHz)

	>10 MHz outside the block edge (**)	3 dBm/MHz	-6 dBm/MHz
<p>(*) In multi-sector base stations, the power limits apply to each of the individual sectors.</p> <p>(**) Beyond 10 MHz outside the band edge, <i>spurious limits</i> apply according to ERC Recommendation 74-01 (lower band edge 1805 MHz, upper band edge 1880 MHz).</p>			

8. Upon application to PTS, the licence holder may be allowed to exceed the specified power limits pursuant to condition 7 above, provided that neighbouring services, applications and networks remain protected.
9. The licence holder is responsible for planning the radio network.

Sharing conditions

10. The licence holder has, pursuant to this licence, priority in the assigned frequency range over licence holders who may be added later. The frequency range is shared with others provided that the licence holder, pursuant to this licence, is not subject to harmful interference.

Conditions on coordination

11. The licence holders shall obtain the consent from the Swedish Armed Forces for all new installations of radio transmitters and changes to existing installations of radio transmitters (e.g., updated technologies, directions/tilt, power, channel bandwidth) in the following municipalities: Ekerö, Gotland, Karlskrona, Kungsbacka, Simrishamn, Vellinge and Ystad.⁵
12. The licence holder shall comply with the conditions according to applicable coordination agreements between Sweden and other states.

Conditions regarding requirements that are of importance to the national security of Sweden

13. The licence holder shall take the technical and organisational measures required to ensure that the radio usage according to the licence does not cause harm to the national security of Sweden.
14. Conditions 15–17 apply to central functions, i.e., functions in:

⁵ There is currently a review of this process which may affect the wording and scope of this condition.

- the radio access network,
- the transmission networks,
- the core network, and
- the operation and maintenance network

that are necessary to maintain overall network functionality and electronic communications services provided by the holder of the licence.

15. Central functions used for the provision of services within frequency ranges according to the licence must not contain products from Huawei and ZTE.
16. If the primary source for the common time reference is reception of signals from satellite (GNSS), or if the source is otherwise located outside Sweden, then a redundant source located in Sweden shall be functionality-tested and ready to be put into service when needed.
17. Central functions must not be dependent on staff or functions located abroad.

FOR INFORMATION - NON-BINDING

Information

Notification obligation

Public communication networks of the type that are normally provided against payment or publicly available electronic communication services may only be provided after notification to PTS.

Information obligation

Anyone operating under the Electronic Communications Act is obliged to provide PTS, upon request, with the information and documents necessary for verifying compliance with the conditions imposed under the Act.

Changes of conditions

The licence conditions may be amended with regard to future changes in radio technology or changes in radio usage due to international agreements to which Sweden is a party or provisions adopted on the basis of the Treaty on the Functioning of the European Union.

Licence conditions may also be changed immediately if it can be assumed that the radio usage will cause harm to Sweden's security.

Protection of Onsala Space Observatory

PTS will assess the protection needs for Onsala Space Observatory in the frequency range 1718.8–1722.2 MHz (part of frequency blocks 1715–1720 MHz and 1720–1725 MHz) in connection with the award of the frequency range 1720–1755 MHz, for which licences expire on 31 December 2037. The assessment may result in additional conditions for the frequency block 1715–1720 MHz.

Coordination with the Swedish Armed Forces

Coordination with the Swedish Armed Forces pursuant to condition 11 must be initiated by the licence holder by contacting the Swedish Armed Forces' contact person, which is provided by PTS.

Existing coordination agreements

Information on existing coordination agreements for block licences can be found on PTS's website⁶.

⁶ <https://pts.se/radio/spektrumforvaltning/koordineringsavtal/>.