

Issued: X.X.XXXX
Enters into force: X.X.XXXX
Validity: until further notice

Legal basis:
Section 96(1) and section 97(2) of the Act on Electronic Communications Services (917/2014).

Provisions on sanctions for operations violating this Regulation are laid down in: Section 348(1) of the Act on Electronic Communications Services (917/2014).

Implemented EU legislation:
The European Commission will be notified of the Regulation in accordance with Directive (EU) 2015/1535.

Modification details:
The amendments made to the previous Regulation are listed as part of the Frequency Allocation Table appended to the Regulation.

This Regulation repeals the previous Regulation 4 AE/2024M issued on 16 February 2024.

RADIO FREQUENCY REGULATION 4 AF/2025M

Scope of application

This Regulation applies to the radio frequency spectrum 100 Hz – 400 GHz.

Radio transmitters intended for use on the radio frequencies must meet the requirements of this Regulation for transmitting and receiving frequencies, channel spacing, bandwidth of transmission, duplex separation, transmitted powers and other corresponding radio characteristics (radio interfaces).

Electrical equipment other than radio equipment (ISM equipment), designated to generate radio frequency energy and used for scientific, industrial, medical or other similar purposes may only be used on the radio frequencies and on the conditions determined in this Regulation.

Objective of the Regulation

The radio frequencies are used as this Regulation provides to safeguard the fair availability, efficient, appropriate and sufficiently interference-free use of radio frequencies.

Definitions

The Frequency Allocation Table, as given in annex, contains provisions on the allocation of radio frequencies, frequency bands and sub-bands for different purposes of use. The radio interface requirements and the frequency bands designated for ISM equipment, and the terms of use of this

equipment, referred to in section 1, are also included in the Frequency Allocation Table.

Entry into force

This Regulation enters into force on x x 2025 and will remain in force until further notice.

This Regulation repeals the Regulation bearing the same title (The Finnish Transport and Communications Agency 4 AE/2024M) issued by the Finnish Transport and Communications Agency on 16 February 2024.

In Helsinki on x x 2025

Forename Surname

title

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Enclosures

Amendments made to the Radio Frequency Regulation

Inductive equipment, NMR equipment, ultra-wideband equipment (UWB) and wide-band data transmission equipment (WAS/RLAN) 57–71 GHz and Amateur radio transmitters

Frequency Allocation Table

Definitions (Appendix 1 to Frequency Allocation Table)

List of abbreviations (Appendix 2 to Frequency Allocation Table)

PMR standards (Appendix 3 to Frequency Allocation Table)

Maritime HF channel tables (Appendix 4 to Frequency Allocation Table)

Amendments made to the Radio Frequency Regulation 4 AE since 19 February 2024

Fixed service

Radio link antenna requirements have been harmonised. Frequency bands under 10 GHz and frequency bands of 13 GHz will allow radiation pattern envelope class 3 in concurrence with other frequency bands.

Removed allocation of fixed service (radio links) from the frequency band 3800–4200 MHz.

Mobile service

Added allocation of primary mobile service to the sub-band 3800–4200 MHz. Allocation scheme for the sub-band is being prepared.

Removed the transmitter power and bandwidth of transmission from business voice communications (PMR/DMR/dPMR) sub-bands and sub-bands 'Control/alarm/telemetry/telecommand/data transmission', 'Authorities', 'Taxis', 'Energy supply' and 'Analogue PMR446'.

'Control, alarm, telemetry, telecommand, data transmission' sub-bands' fixed stations' radiation power 2 W ERP is converted to radiated power 25 W ERP and, in the absence of radiation power, added 25 W ERP.

Sub-band 167.700–168.550 MHz / 172.300–173.150 MHz ('Use and maintenance of railway network') opened for general PMR duplex use.

Removed 'Military use' from sub-bands 154.900–155.475 MHz and 155.500–155.825 MHz. It has been replaced by 'Digital PMR (DMR, dPMR)' in the sub-band 154.90625–155.46875 / 150.30625–150.86875 MHz and for the other remaining sub-bands allocation scheme is being prepared.

Primary use of 'Mobile Service' in the frequency band 150.050–154.000 MHz is converted to primary use of 'Land Mobile Service'.

The note 'EPIRB, emergency position-indicating radio beacon and radiotelephones' and the reference 'Standard EN 300 152' are removed from the frequency 243 MHz.

Changed the reference number of Appendix 'PMR Standards' of the Frequency Allocation Table from 1 to 3.

Maritime mobile

The Appendix 4 'Maritime HF Channel Tables' of the Frequency Allocation Table contains updated frequency and usage information for the HF frequency band channels of vessels and coast radio stations.

Satellite service

Opened in the frequency band 8500–10000 MHz the sub-bands 9200–9300 MHz and 9900–10000 MHz for the primary earth exploration satellite service.

Additionally, added to the frequency band 8500–10000 MHz a new secondary earth exploration satellite service and opened the sub-band 9800–9900 MHz.

Added to the frequency band 10.000–10.450 GHz a new primary earth exploration satellite service and opened the sub-band 10.000–10.400 GHz.

Added a note to all the above-mentioned sub-bands referring to the provisions (footnotes) of the ITU Radio Regulations in that sub-band.

Amateur radio

Added 25 kHz wide radio repeater station channels to the sub-band 433.075–433.150 MHz / 438.075–438.150 MHz.

Added a note to all sub-bands of amateur radio repeater stations that the frequencies mentioned in that sub-band are the centre frequencies of the extreme channels of that sub-band.

Short-range devices

The Annex 'Inductive equipment, NMR equipment, ultra-wideband equipment (UWB) and wideband data transmission equipment (WAS/RLAN) 57–71 GHz and Amateur radio transmitters' of the Radio Frequency Regulation has been updated regarding UWB equipment to correspond to Commission Implementing Decision (EU) 2019/785 on the harmonisation of radio spectrum for equipment using ultra-wideband technology in the Union, which has been amended with Commission Implementing Decision (EU) 2024/1467.

Military use

Added a note to the sub-band 1350–1375 MHz: 'Also military use in Inari area.'

Inductive equipment, NMR equipment, ultra-wideband equipment (UWB) and wide-band data transmission equipment (WAS/RLAN) 57-71 GHz and Amateur radio transmitters

1 Inductive equipment

The frequency bands in the 100 Hz – 30 MHz frequency range typically assigned for inductive equipment in Europe are listed in the ECC Recommendation ERC/REC 70-03 on the use of Short Range Equipment (<https://cept.org/eco/>). Inductive equipment complying with Recommendation ERC/REC 70-03 and European Commission Implementing Decision (EU) 2022/180 may be used in Finland. The use of other inductive equipment that meet the requirements of standard EN 300 330 or another similar European harmonised standard on inductive equipment and whose conformity has been verified in accordance with section 255 of the Act on Electronic Communications Services is not restricted in Finland, either. For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15.

2 NMR equipment

Enclosed Nuclear Magnetic Resonance (NMR) equipment in the frequency range 9 kHz – 130 MHz in accordance with Commission Implementing Decision (EU) 2022/180. NMR equipment can be used to investigate the properties of different materials, for example. For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15.

3 Ultra-wideband equipment (UWB) and wide-band data transmission equipment (WAS/RLAN) 57-71 GHz

3.1 Generic UWB usage

Frequency band	Conditions for use
3.1-4.8 GHz 6.0-9.0 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.2 Location tracking systems Type 1 (LT1)

Frequency band	Conditions for use
6.0-9.0 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.3 UWB devices installed in motor and railway vehicles

3.3.1 Generic use

Frequency band	Conditions for use
3.1–4.8 GHz 6.0–9.0 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.3.2 Specific vehicular access systems

Frequency band	Conditions for use
3.8–4.2 GHz 6.0–8.5 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.3.3 Other vehicular applications including applications that involve infrastructure-to-vehicle and vehicle-to-vehicle communications

Frequency band	Conditions for use
6.0–8.5 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.4 Specific radiodetermination, location tracking, tracing and data acquisition applications in the 6.0–8.5 GHz band

3.4.1 Specific applications that involve fixed outdoor installations

Frequency band	Conditions for use
6.0–8.5 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.4.2 Specific applications that involve enhanced indoor devices

Frequency band	Conditions for use
6.0–8.5 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.5 UWB onboard aircraft

Frequency band	Conditions for use
6.0–8.5 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(06)04.

	Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.
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3.6 Material sensing devices using UWB technology

Frequency band	Conditions for use
2.2–9.0 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. ECC Decision ECC/DEC/(07)01. Standard EN 302 065 as applicable. European Commission Implementing Decision (EU) 2019/785 supplemented by Implementing Decision (EU) 2024/1467.

3.7 Tank level probing radars

Frequency band	Conditions for use
4.5–7.0 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Tank level probing radars. Spectral power density outside the tank ≤ -41.3 dBm/MHz EIRP. Radiated power inside the tank $\leq +24$ dBm EIRP. Standard EN 302 372. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
8.5–10.6 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Tank level probing radars. Spectral power density outside the tank ≤ -41.3 dBm/MHz EIRP. Radiated power inside the tank $\leq +30$ dBm EIRP. Standard EN 302 372. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
24.05–27.00 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Tank level probing radars. Spectral power density outside the tank ≤ -41.3 dBm/MHz EIRP. Radiated power inside the tank $\leq +43$ dBm EIRP. Standard EN 302 372. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
57–64 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Tank level probing radars. Spectral power density outside the tank ≤ -41.3 dBm/MHz EIRP. Radiated power inside the tank $\leq +43$ dBm EIRP. Standard EN 302 372. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
75–85 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Tank level probing radars. Spectral power density outside the tank ≤ -41.3 dBm/MHz EIRP. Radiated power inside the tank $\leq +43$ dBm EIRP. Standard EN 302 372. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.

3.8 Level probing radars

Frequency band	Conditions for use
6.0–8.5 GHz	For licence-exempt equipment, see Finnish Transport and

	Communications Agency Regulation 15. Level probing radars. Standard EN 302 729. ECC Decision ECC/DEC/(11)02. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
24.05–26.50 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Level probing radars. Standard EN 302 729. ECC Decision ECC/DEC/(11)02. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
57–64 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Level probing radars. Standard EN 302 729. ECC Decision ECC/DEC/(11)02. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
75–85 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Level probing radars. Standard EN 302 729. ECC Decision ECC/DEC/(11)02. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.

3.9 GPR/WPR equipment

Frequency band	Conditions for use
30–12400 MHz	GPR/WPR equipment intended for professional use in accordance with Decision ECC/DEC/(06)08. For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Standard EN 302 066.

3.10 Wide-band data transmission equipment (WAS/RLAN) 57–71 GHz

Frequency band	Conditions for use
57–71 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Radiated power ≤ 40 dBm EIRP, spectral power density of transmission ≤ 23 dBm/MHz EIRP. Fixed outdoor installations not permitted. Standard EN 302 567. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
57–71 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Radiated power ≤ 40 dBm EIRP, spectral power density of transmission ≤ 23 dBm/MHz EIRP and transmit power ≤ 27 dBm. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.
57–71 GHz	For licence-exempt equipment, see Finnish Transport and Communications Agency Regulation 15. Radiated power ≤ 55 dBm EIRP, spectral power density of transmission ≤ 38 dBm/MHz EIRP and minimum transmitting antenna gain 30 dBi. Only fixed outdoor installations. European Commission Decision 2006/771/EC, supplemented by Implementing Decision (EU) 2022/180.

3.11 Amateur radio transmitters

For justified reasons and for experimental purposes, the radio licence may entitle a radio amateur of general class to use higher transmitter power in a frequency band assigned for amateur radio communication than stipulated in the Frequency Allocation Table. The terms of an amateur radio station licence may also contain exceptions as to the provisions on amateur radio transmitters in this Table.

DEFINITIONS

Frequency band. Services in Finland

Frequency band and services in use or intended to be used in this frequency band in Finland. The frequency bands and services are based on the Radio Regulations (RR) and the ERC Report25.

In the Frequency Allocation Table, primary services are written with upper case letters (e.g. MOBILE) and secondary services with lower case letters (e.g. Mobile).

Sub-band, its width and usage

Sub-bands, their width and intended use. In mobile and fixed services, the centre frequencies of the extreme channels are the lower and upper limits of a sub-band. In other radio services, the sub-band limits form the limits for the given usage.

Mode of traffic

Mode of traffic of a sub-band is either simplex (use of one frequency) or duplex (use of two frequencies).

Class of station

Class of station is based on the Radio Regulations (RR). In the land mobile service, for instance, the class of station of a base station is FB.

Direction

Defines the direction of transmission, i.e. whether the frequency is used for transmitting (TX) or receiving (RX) or both (TXRX).

Channel width

States the frequency separation between the centre frequencies of two adjacent channels.

Bandwidth

States the bandwidth allowed for a transmission using the channel (i.e. necessary bandwidth).

Class of emission

Determines, for instance, type of modulation and type of information to be transmitted.

1

Duplex separation and paired band

The corresponding frequency band (paired band) is situated at the distance given by the duplex separation either on higher frequencies (+) or on lower frequencies (-) than the band given in the table.

Standard type

Gives information on the most essential properties of radio link equipment (e.g. DRS 34/18000= capacity 34 Mbit/s, frequency range 18000 MHz or FM 4/419 = modulation FM, capacity 4speech channels and frequency range 419 MHz).

Radiated power

The sum of the transmitter power and the antenna gain subtracted by the attenuation of the transmission lines is the radio transmitter's radiated power. The maximum radiated power is stated as W ERP units when it is compared to a dipole antenna (gain dBd) or as W EIRP units when it is compared to an isotropic antenna (gain dBi).

Radio Regulations, RR

The mandatory (binding) Annex to the Constitution and Convention of the International Telecommunications Union (ITU Radio Regulations).

Duty cycle

The duty cycle is defined as the ratio of the maximum transmitter "on" time, relative to a one-hour period.

Output power of radio link

If no maximum output power is mentioned for the transmitter of a radio link, the value given in the standard reference is applicable. The standard reference concerning the radiation pattern envelope of a radio link antenna defines the required maximum side lobe attenuation, which can be relaxed depending on the usage environment of the system in question.

References to standards

The standard references are only for informative purposes and they do not set compulsory requirements for placing of equipment on the market. When there are references to standards or other comparable specifications in the Radio Frequency Plan, this implies that they have been used as assumptions for equipment performance in an interference analysis concerning a new frequency assignment or as a technical basis for compatibility studies between different radio communications services or as a technical basis for coordination agreements with other countries. Standard references may in some cases also be used to define a channel access procedure, the use of which is a condition for the use of certain frequency bands.

The standard references do not specify the version of the standard. Reference means the latest version published in the Official Journal of the European Union.

LYHENNELUETTELO / TABELL ÖVER FÖRKORTNINGAR / LIST OF ABBREVIATIONS

Termi / Term	Selite / Förklaring / Definition
ADS-B	Automatic Dependent Surveillance-Broadcast
AVI	Automatic Vehicle Identification
BFWA	Broadband Fixed Wireless Access
CENELEC	European Committee for Electrotechnical Standardization
CEPT	The European Conference of Postal and Telecommunications Administration
DAB	Digital Audio Broadcasting
DEC	Decision
DECT	Digital European Cordless Telecommunication system
DGPS	Differential GPS
DME	Distance Measuring Equipment
DSC	Digital Selective Calling
EC	European Commission
ECA	European Common Allocation
ECC	Electronic Communications Committee
EG	Europeiska kommissionen
EIRP	Equivalent Isotropically Radiated Power
EN xxx	European Norm xxx standardit / standarder / standards
ENG/OB	Electronic News Gathering/Outside Broadcasting
EPIRB	Emergency Position-Indicating RadioBeacon
ERC	European Radiocommunications Committee
ERP	Equivalent Radiated Power
ETSI	European Telecommunications Standards Institute
EY	Euroopan yhteisö / Europeiska gemenskapen / European Community
EU	Euroopan unioni / Europeiska unionen / European Union
FM	Frequency Modulation
FWA	Fixed Wireless Access
FWS	Fixed Wireless Systems
GBAS	Ground Based Augmentation System
GMDSS	Global Maritime Distress and safety System
GPS	Global Positioning System
HEST	High EIRP Satellite Terminals
HDFSS	High Density Fixed Satellite Service
IALA	International Association of Lighthouse Authorities
ILS	Instrument Landing System
IMT-2000	International Mobile Telecommunications
ISM	Industrial, Scientific and Medical applications
ITU-R	International Telecommunication Union - Radiocommunication sector
LA	AM/DSB CB
LEST	Low EIRP Satellite Terminals
LR	Radiolocation Land Station
MLS	Microwave Landing System
MVDS	Multipoint Video Distribution System
MWS	Multimedia Wireless Systems
NDB	Non-Directional Radio Beacon
NMT	Nordic Mobile Telephone
OB	Outside Broadcasting
OR	Off-Route
PMR	Professional / Private Mobile Radio
R	Route
REC	Recommendation
RES	Resolution
RHA68	Harrastuskäyttöön varatut kanavat taajuusalueella 68–72 MHz / Fritidsbruk reserverade kanaler inom frekvensbandet 68–72 MHz / Channels in the 68–72 MHz frequency band reserved for recreational usage
RLAN	Radio Local Area Network
RR	Radio Regulations
RR AP30B	Appendix 30B of the ITU Radio Regulations
RTTT	Road Transport and Traffic Telematics
SAR	Search And Rescue, Synthetic Aperture Radar
SRD	Short Range Devices
SRR	Short Range Radar

SSR	Secondary Surveillance Radar
TETRA	Terrestrial Trunked Radio
TRAFICOM	Liikenne- ja viestintävirasto Traficom / Transport- och kommunikationsverket Traficom / Finnish Transport and Communications Agency
TV	Television
UWB	Ultra Wideband
VDL	VHF Data Link
VIRVE	Viranomaisverkko / Myndigheternas radionät / Finland's Public Authority Network, emergency services network
VLBI	Very Long Baseline Interferometry
WLAN	Wireless Local Area Network
WLL	Wireless Local Loop
VOR	VHF Omnidirectional Radio Range

PMR STANDARDS

The standard references are only for informative purposes and they do not set compulsory requirements for placing of equipment on the market. When there are references to standards or other comparable specifications in the Radio Frequency Plan, this implies that they have been used as assumptions for equipment performance in an interference analysis concerning a new frequency assignment or as a technical basis for compatibility studies between different radio communications services or as a technical basis for coordination agreements with other countries. Standard references may in some cases also be used to define a channel access procedure, the use of which is a condition for the use of certain frequency bands.

The standard references do not specify the version of the standard. Reference means the latest version published in the Official Journal of the European Union.

1. Radiotelephone Base Stations only for Analogue Speech Transmission

- 1.1 Radiotelephone base stations
Standard EN 300 086
Equipment with selectivity call: Standard EN 300 219
- 1.2 Vehicle-mounted radiotelephones
Standard EN 300 086
Equipment with selectivity call: Standard EN 300 219
- 1.3 Portable radiotelephones
 - a) equipment with antenna connector
Standard EN 300 086
Equipment with selectivity call: Standard EN 300 219
 - b) equipment with integral antenna
Standard EN 300 296
Equipment with selectivity call: Standard EN 300 341

2. Radiotelephones for analogue Speech and/or Data Transmission

- 2.1 Radiotelephone base stations
 - a) channel spacing ≥ 25 kHz:
Standard EN 300 394-1
Standard EN 302 561
 - b) channel spacing 25 kHz or 12.5 kHz:
Standard EN 300 113
 - c) channel spacing ≤ 10 kHz
Standard EN 301 166
- 2.2 Vehicle-mounted radiotelephones
 - a) channel spacing ≥ 25 kHz:
Standard EN 300 394-1
Standard EN 302 561
 - b) channel spacing 25 kHz or 12.5 kHz:
Standard EN 300 113
 - c) channel spacing ≤ 10 kHz
Standard EN 301 166

2.3 Portable radiotelephones

- a) channel spacing ≥ 25 kHz:
Standard EN 300 394-1
Standard EN 302 561
- b) channel spacing 25 kHz or 12.5 kHz:
Equipment with antenna connector: Standard EN 300 113
Equipment with integral antenna: Standard EN 300 390
- c) channel spacing ≤ 10 kHz:
Standard EN 301 166

3. Telecommand and Telemetry Equipment and Data Transmission Systems

3.1 Standard EN 300 220 or EN 302 561 with the following specifications:

These standards are applied to equipment with transmission power below 0.5 W in the frequency bands 29.810–29.940 MHz and 161.4125–161.4625 MHz and in the sub-bands within the frequency band 406–470 MHz identified by Finnish Transport and Communication Agency for this purpose.

3.2 Standard EN 300 113 or standard EN 302 561 applies to all other frequency ranges than those mentioned above, or to equipment with a transmission power exceeding 0.5 W.

MARITIME HF CHANNEL TABLES

Paired radiotelephony channels in the 4 MHz band

Channel number	Coast stations		Ships		Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
401	4357	4358.4	4065	4066.4	416	4402	4403.4	4110	4111.4
402	4360	4361.4	4068	4069.4	417	4405	4406.4	4113	4114.4
403	4363	4364.4	4071	4072.4	418	4408	4409.4	4116	4117.4
404	4366	4367.4	4074	4075.4	419	4411	4412.4	4119	4120.4
405	4369	4370.4	4077	4078.4	420	4414	4415.4	4122	4123.4
406	4372	4373.4	4080	4081.4	421 ¹⁾	4417	4418.4	4125	4126.4
407	4375	4376.4	4083	4084.4	422	4420	4421.4	4128	4129.4
408	4378	4379.4	4086	4087.4	423	4423	4424.4	4131	4132.4
409	4381	4382.4	4089	4090.4	424	4426	4427.4	4134	4135.4
410	4384	4385.4	4092	4093.4	425	4429	4430.4	4137	4138.4
411	4387	4388.4	4095	4096.4	426	4432	4433.4	4140	4141.4
412	4390	4391.4	4098	4099.4	427	4435	4436.4	4143	4144.4
413	4393	4394.4	4101	4102.4	428	4351	4352.4	-	-
414	4396	4397.4	4104	4105.4	429	4354	4355.4	-	-
415	4399	4400.4	4107	4108.4					

¹⁾ Channel 421 (coast station carrier frequency 4417 kHz and ship station carrier frequency 4125 kHz) is the calling channel in radiotelephony.

The ship station TX frequency 4125 kHz of channel 421 is used as the distress and safety frequency in radiotelephony.

Paired radiotelephony channels in the 6 MHz band

Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
601	6501	6502.4	6200	6201.4
602	6504	6505.4	6203	6204.4
603	6507	6508.4	6206	6207.4
604	6510	6511.4	6209	6210.4
605	6513	6514.4	6212	6213.4
606 ²⁾	6516	6517.4	6215	6216.4
607	6519	6520.4	6218	6219.4
608	6522	6523.4	6221	6222.4

²⁾ Channel 606 (coast station carrier frequency 6516 kHz and ship station carrier frequency 6215 kHz) is the calling channel in radiotelephony.

The ship station TX frequency 6215 kHz of channel 606 is used as the distress and safety frequency in radiotelephony.

Paired radiotelephony channels in the 8 MHz band

Channel number	Coast stations		Ships		Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
801	8719	8720.4	8195	8196.4	820	8776	8777.4	8252	8253.4
802	8722	8723.4	8198	8199.4	821 ¹⁾	8779	8780.4	8255	8256.4
803	8725	8726.4	8201	8202.4	822	8782	8783.4	8258	8259.4
804	8728	8729.4	8204	8205.4	823	8785	8786.4	8261	8262.4
805	8731	8732.4	8207	8208.4	824	8788	8789.4	8264	8265.4
806	8734	8735.4	8210	8211.4	825	8791	8792.4	8267	8268.4
807	8737	8738.4	8213	8214.4	826	8794	8795.4	8270	8271.4
808	8740	8741.4	8216	8217.4	827	8797	8798.4	8273	8274.4
809	8743	8744.4	8219	8220.4	828	8800	8801.4	8276	8277.4
810	8746	8747.4	8222	8223.4	829	8803	8804.4	8279	8280.4
811	8749	8750.4	8225	8226.4	830	8806	8807.4	8282	8283.4
812	8752	8753.4	8228	8229.4	831	8809	8810.4	8285	8286.4
813	8755	8756.4	8231	8232.4	832	8812	8813.4	8288	8289.4
814	8758	8759.4	8234	8235.4	833 ²⁾	8291	8292.4	8291	8292.4
815	8761	8762.4	8237	8238.4	834	8707	8708.4	-	-
816	8764	8765.4	8240	8241.4	835	8710	8711.4	-	-
817	8767	8768.4	8243	8244.4	836	8713	8714.4	-	-
818	8770	8771.4	8246	8247.4	837	8716	8717.4	-	-
819	8773	8774.4	8249	8250.4					

¹⁾ Channel 821 (coast station carrier frequency 8779 kHz and ship station carrier frequency 8255 kHz) is the calling channel in radiotelephony.

²⁾ The ship station TX frequency 8291 kHz of channel 833 is used as the distress and safety frequency in radiotelephony.

Paired radiotelephony channels in the 12 MHz band

Channel number	Coast stations		Ships		Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1201	13077	13078.4	12230	12231.4	1222	13140	13141.4	12293	12294.4
1202	13080	13081.4	12233	12234.4	1223	13143	13144.4	12296	12297.4
1203	13083	13084.4	12236	12237.4	1224	13146	13147.4	12299	12300.4
1204	13086	13087.4	12239	12240.4	1225	13149	13150.4	12302	12303.4
1205	13089	13090.4	12242	12243.4	1226	13152	13153.4	12305	12306.4
1206	13092	13093.4	12245	12246.4	1227	13155	13156.4	12308	12309.4

1207	13095	13096.4	12248	12249.4	1228	13158	13159.4	12311	12312.4
1208	13098	13099.4	12251	12252.4	1229	13161	13162.4	12314	12315.4
1209	13101	13102.4	12254	12255.4	1230	13164	13165.4	12317	12318.4
1210	13104	13117.4	12269	12270.4	1231	13167	13168.4	12320	12321.4
1211	13107	13105.4	12257	12258.4	1232	13170	13171.4	12323	12324.4
1212	13110	13108.4	12260	12261.4	1233	13173	13174.4	12326	12327.4
1213	13113	13111.4	12263	12264.4	1234	13176	13177.4	12329	12330.4
1214	13116	13114.4	12266	12267.4	1235	13179	13180.4	12332	12333.4
1215	13119	13120.4	12272	12273.4	1236	13182	13183.4	12335	12336.4
1216	13122	13123.4	12275	12276.4	1237	13185	13186.4	12338	12339.4
1217	13125	13126.4	12278	12279.4	1238	13188	13189.4	12341	12342.4
1218	13128	13129.4	12281	12282.4	1239	13191	13192.4	12344	12345.4
1219	13131	13132.4	12284	12285.4	1240	13194	13195.4	12347	12348.4
1220	13134	13135.4	12287	12288.4	1241	13197	13198.4	12350	12351.4
1221 ³⁾	13137	13138.4	12290	12291.4					

³⁾ Channel 1221 (coast station carrier frequency 13137 kHz and ship station carrier frequency 12290 kHz) is the calling channel in radiotelephony.

The ship station TX frequency 12290 kHz of channel 1221 is used as the distress and safety frequency in radiotelephony.

Paired radiotelephony channels in the 16 MHz band

Channel number	Coast stations		Ships		Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1601	17242	17243.4	16360	16361.4	1631	17332	17333.4	16450	16451.4
1602	17245	17246.4	16363	16364.4	1632	17335	17336.4	16453	16454.4
1603	17248	17249.4	16366	16367.4	1633	17338	17339.4	16456	16457.4
1604	17251	17252.4	16369	16370.4	1634	17341	17342.4	16459	16460.4
1605	17254	17255.4	16372	16373.4	1635	17344	17345.4	16462	16463.4
1606	17257	17258.4	16375	16376.4	1636	17347	17348.4	16465	16466.4
1607	17260	17261.4	16378	16379.4	1637	17350	17351.4	16468	16469.4
1608	17263	17264.4	16381	16382.4	1638	17353	17354.4	16471	16472.4
1609	17266	17267.4	16384	16385.4	1639	17356	17357.4	16474	16475.4
1610	17269	17270.4	16387	16388.4	1640	17359	17360.4	16477	16478.4
1611	17272	17273.4	16390	16391.4	1641	17362	17363.4	16480	16481.4
1612	17275	17276.4	16393	16394.4	1642	17365	17366.4	16483	16484.4
1613	17278	17279.4	16396	16397.4	1643	17368	17369.4	16486	16487.4
1614	17281	17282.4	16399	16400.4	1644	17371	17372.4	16489	16490.4
1615	17284	17285.4	16402	16403.4	1645	17374	17375.4	16492	16493.4
1616	17287	17288.4	16405	16406.4	1646	17377	17378.4	16495	16496.4
1617	17290	17291.4	16408	16409.4	1647	17380	17381.4	16498	16499.4
1618	17293	17294.4	16411	16412.4	1648	17383	17384.4	16501	16502.4
1619	17296	17297.4	16414	16415.4	1649	17386	17387.4	16504	16505.4
1620	17299	17300.4	16417	16418.4	1650	17389	17390.4	16507	16508.4
1621 ¹⁾	17302	17303.4	16420	16421.4	1651	17392	17393.4	16510	16511.4
1622	17305	17306.4	16423	16424.4	1652	17395	17396.4	16513	16514.4
1623	17308	17309.4	16426	16427.4	1653	17398	17399.4	16516	16517.4
1624	17311	17312.4	16429	16430.4	1654	17401	17402.4	16519	16520.4
1625	17314	17315.4	16432	16433.4	1655	17404	17405.4	16522	16523.4
1626	17317	17318.4	16435	16436.4	1656	17407	17408.4	16525	16526.4
1627	17320	17321.4	16438	16439.4					

1628	17323	17324.4	16441	16442.4			
1629	17326	17327.4	16444	16445.4			
1630	17329	17330.4	16447	16448.4			

¹⁾ Channel 1621 (coast station carrier frequency 17302 kHz and ship station carrier frequency 16420 kHz) is the calling channel in radiotelephony.

The ship station TX frequency 16420 kHz of channel 1621 is used as the distress and safety frequency in radiotelephony.

Paired radiotelephony channels in the 18/19 MHz band

Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
1801	19755	19756.4	18780	18781.4
1802	19758	19759.4	18783	18784.4
1803	19761	19762.4	18786	18787.4
1804	19764	19765.4	18789	18790.4
1805	19767	19768.4	18792	18793.4
1806 ²⁾	19770	19771.4	18795	18796.4
1807	19773	19774.4	18798	18799.4
1808	19776	19777.4	18801	18802.4
1809	19779	19780.4	18804	18805.4
1810	19782	19783.4	18807	18808.4
1811	19785	19786.4	18810	18811.4
1812	19788	19789.4	18813	18814.4
1813	19791	19792.4	18816	18817.4
1814	19794	19795.4	18819	18820.4
1815	19797	19798.4	18822	18823.4

²⁾ Channel 1806 (coast station carrier frequency 19770 kHz and ship station carrier frequency 18795 kHz) is the calling channel in radiotelephony.

Paired radiotelephony channels in the 22 MHz band

Channel number	Coast stations		Ships		Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency		Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
2201	22696	22697.4	22000	22001.4	2231	22786	22787.4	22090	22091.4
2202	22699	22700.4	22003	22004.4	2232	22789	22790.4	22093	22094.4
2203	22702	22703.4	22006	22007.4	2233	22792	22793.4	22096	22097.4
2204	22705	22706.4	22009	22010.4	2234	22795	22796.4	22099	22100.4
2205	22708	22709.4	22012	22013.4	2235	22798	22799.4	22102	22103.4
2206	22711	22712.4	22015	22016.4	2236	22801	22802.4	22105	22106.4
2207	22714	22715.4	22018	22019.4	2237	22804	22805.4	22108	22109.4
2208	22717	22718.4	22021	22022.4	2238	22807	22808.4	22111	22112.4
2209	22720	22721.4	22024	22025.4	2239	22810	22811.4	22114	22115.4
2210	22723	22724.4	22027	22028.4	2240	22813	22814.4	22117	22118.4
2211	22726	22727.4	22030	22031.4	2241	22816	22817.4	22120	22121.4
2212	22729	22730.4	22033	22034.4	2242	22819	22820.4	22123	22124.4
2213	22732	22733.4	22036	22037.4	2243	22822	22823.4	22126	22127.4
2214	22735	22736.4	22039	22040.4	2244	22825	22826.4	22129	22130.4

2215	22738	22739.4	22042	22043.4	2245	22828	22829.4	22132	22133.4
2216	22741	22742.4	22045	22046.4	2246	22831	22832.4	22135	22136.4
2217	22744	22745.4	22048	22049.4	2247	22834	22835.4	22138	22139.4
2218	22747	22748.4	22051	22052.4	2248	22837	22838.4	22141	22142.4
2219	22750	22751.4	22054	22055.4	2249	22840	22841.4	22144	22145.4
2220	22753	22754.4	22057	22058.4	2250	22843	22844.4	22147	22148.4
2221 ¹⁾	22756	22757.4	22060	22061.4	2251	22846	22847.4	22150	22151.4
2222	22759	22760.4	22063	22064.4	2252	22849	22850.4	22153	22154.4
2223	22762	22763.4	22066	22067.4	2253	22852	22853.4	22156	22157.4
2224	22765	22766.4	22069	22070.4					
2225	22768	22769.4	22072	22073.4					
2226	22771	22772.4	22075	22076.4					
2227	22774	22775.4	22078	22076.4					
2228	22777	22778.4	22081	22082.4					
2229	22780	22781.4	22084	22085.4					
2230	22783	22784.4	22087	22088.4					

¹⁾ Channel 2221 (coast station carrier frequency 22756 kHz and ship station carrier frequency 22060 kHz) is the calling channel in radiotelephony.

Paired radiotelephony channels in the 25 MHz band

Channel number	Coast stations		Ships	
	Carrier frequency	Assigned frequency	Carrier frequency	Assigned frequency
2501	26145	26146.4	25070	25071.4
2502	26148	26149.4	25073	25074.4
2503	26151	26152.4	25076	25077.4
2504	26154	26155.4	25079	25080.4
2505	26157	26158.4	25082	25083.4
2506	26160	26161.4	25085	25086.4
2507	26163	26164.4	25088	25089.4
2508	26166	26167.4	25091	25092.4
2509	26169	26170.4	25094	25095.4
2510 ²⁾	26172	26173.4	25097	25098.4

²⁾ Channel 2510 (coast station carrier frequency 26172 kHz and ship station carrier frequency 25097 kHz) is the calling channel in radiotelephony.

Unpaired radiotelephony frequencies (3JE) in bands 4, 6, 8, 12, 16, 18, 22 and 25 MHz

These frequencies are used for ship-to-ship communications. When required, they can be used also for communications between a ship and a coast station.

The frequencies can be used for simplex communicating also by coast station when the transmitting power does not exceed 1 kW.

4 MHz f_c	4 MHz f_a	6 MHz f_c	6 MHz f_a	8 MHz f_c	8 MHz f_a	12 MHz f_c	12 MHz f_a
4146	4147.4	6224	6225.4	8294	8295.4	12353	12354.4
4149	4150.4	6227	6228.4	8297	8298.4	12356	12357.4
		6230	6231.4			12359	12360.4
						12362	12363.4
						12365	12366.4

16 MHz f_c	16 MHz f_a	18 MHz f_c	18 MHz f_a	22 MHz f_c	22 MHz f_a	25 MHz f_c	25 MHz f_a
16528	16529.4	18825	18826.4	22159	22160.4	25100	25101.4
16531	16532.4	18828	18829.4	22162	22163.4	25103	25104.4
16534	16535.4	18831	18832.4	22165	22166.4	25106	25107.4
16537	16538.4	18834	18835.4	22168	22169.4	25109	25110.4
16540	16541.4	18837	18838.4	22171	22172.4	25112	25113.4
16543	16544.4	18840	18841.4	22174	22175.4	25115	25116.4
16546	16547.4	18843	18844.4	22177	22178.4	25118	25119.4

f_c = carrier frequency

f_a = assigned frequency

Additional unpaired frequencies (J3E) shared with fixed service in the 4 and 8 MHz bands

These frequencies are used for ship-to-ship communications. When required, they can be used also for communications between a ship and a coast station.

4 MHz f_c	4 MHz f_a	4 MHz f_c	4 MHz f_a	8 MHz f_c	8 MHz f_a	8 MHz f_c	8 MHz f_a
4000	4001.3	4033	4034.4	8101	8102.4	8149	8150.4
4003	4004.3	4036	4037.4	8104	8105.4	8152	8153.4
4006	4007.3	4039	4040.4	8107	8108.4	8155	8156.4
4009	4010.3	4042	4043.4	8110	8111.4	8158	8159.4
4012	4013.3	4045	4046.4	8113	8114.4	8161	8162.4
4015	4016.3	4048	4049.4	8116	8117.4	8164	8165.4
4018	4019.3	4051	4052.4	8119	8120.4	8167	8168.4
4021	4022.3	4054	4055.4	8122	8123.4	8170	8171.4
4024	4025.3	4057	4058.4	8125	8126.4	8173	8174.4
4027	4028.3	4060	4061.4	8128	8129.4	8176	8177.4
4030	4031.3			8131	8132.4	8179	8180.4
				8134	8135.4	8182	8183.4
				8137	8138.4	8185	8186.4
				8140	8141.4	8188	8189.4
				8143	8144.4	8191	8192.4
				8146	8147.4		

f_c = carrier frequency

f_a = assigned frequency

Paired telex frequencies (NBDP) 4 MHz

All frequencies are assigned frequencies.

Channel number	Coast station TX (kHz)	Ship TX (kHz)
1	4210.5	4172.5
2	4211	4173
3	4211.5	4173.5
4	4212	4174
5	4212.5	4174.5
6	4213	4175
7	4213.5	4175.5

Channel number	Coast station TX (kHz)	Ship TX (kHz)
8	4214	4176
9	4214.5	4176.5
10	4215	4177
11 ¹⁾	4177.5	4177.5
12	4215.5	4178
13	4216	4178.5

¹⁾ 4177.5 kHz is the distress frequency for telex communications.

Paired telex frequencies (NBDP) 6 MHz

All frequencies are assigned frequencies.

Channel number	Coast station TX (kHz)	Ship TX (kHz)
1	6314.5	6263
2	6315	6263.5
3	6315.5	6264
4	6316	6264.5
5	6316.5	6265
6	6317	6265.5
7	6317.5	6266
8	6318	6266.5
9	6318.5	6267
10	6319	6267.5
11 ²⁾	6268	6268
12	6319.5	6268.5

Channel number	Coast station TX (kHz)	Ship TX (kHz)
13	6320	6269
14	6320.5	6269.5

²⁾ 6268 kHz is the distress frequency for telex communications.

Paired telex frequencies (NBDP) 8 MHz

All frequencies are assigned frequencies.

Channel number	Coast station TX (kHz)	Ship TX (kHz)
1 ³⁾	8376.5	8376.5
2	8417	8377
3	8417.5	8377.5
4	8418	8378
5	8418.5	8378.5

6	8419	8379
7	8419.5	8379.5
8	8420	8380
9	8420.5	8380.5
10	8421	8381
11	8421.5	8381.5
12	8422	8382
13	8422.5	8382.5
14	8423	8383
15	8423.5	8383.5

³⁾ 8376.5 kHz is the distress frequency for telex communications.

Paired telex frequencies (NBDP) 12 MHz

All frequencies are assigned frequencies.

Channel number	Coast station TX (kHz)	Ship TX (kHz)	Channel number	Coast station TX (kHz)	Ship TX (kHz)
1	12579.5	12477	61	12609.5	12507
2	12580	12477.5	62	12610	12507.5
3	12580.5	12478	63	12610.5	12508
4	12581	12478.5	64	12611	12508.5
5	12581.5	12479	65	12611.5	12509
6	12582	12479.5	66	12612	12509.5
7	12582.5	12480	67	12612.5	12510
8	12583	12480.5	68	12613	12510.5
9	12583.5	12481	69	12613.5	12511
10	12584	12481.5	70	12614	12511.5
11	12584.5	12482	71	12614.5	12512
12	12585	12482.5	72	12615	12512.5
13	12585.5	12483	73	12615.5	12513
14	12586	12483.5	74	12616	12513.5
15	12586.5	12484	75	12616.5	12514
16	12587	12484.5	76	12617	12514.5
17	12587.5	12485	77	12617.5	12515
18	12588	12485.5	78	12618	12515.5
19	12588.5	12486	79	12618.5	12516
20	12589	12486.5	80	12619	12516.5
21	12589.5	12487	81	12619.5	12517
22	12590	12487.5	82	12620	12517.5
23	12590.5	12488	83	12620.5	12518
24	12591	12488.5	84	12621	12518.5
25	12591.5	12489	85	12621.5	12519
26	12592	12489.5	86	12622	12519.5
27	12592.5	12490	87 ¹⁾	12520	12520
28	12593	12490.5	88	12622.5	12520.5
29	12593.5	12491	89	12623	12521
30	12594	12491.5	90	12623.5	12521.5
31	12594.5	12492	91	12624	12522
32	12595	12492.5	92	12624.5	12522.5
33	12595.5	12493			
34	12596	12493.5			
35	12596.5	12494			
36	12597	12494.5			
37	12597.5	12495			
38	12598	12495.5			

39	12598.5	12496		
40	12599	12496.5		
41	12599.5	12497		
42	12600	12497.5		
43	12600.5	12498		
44	12601	12498.5		
45	12601.5	12499		
46	12602	12499.5		
47	12602.5	12500		
48	12603	12500.5		
49	12603.5	12501		
50	12604	12501.5		
51	12604.5	12502		
52	12605	12502.5		
53	12605.5	12503		
54	12606	12503.5		
55	12606.5	12504		
56	12607	12504.5		
57	12607.5	12505		
58	12608	12505.5		
59	12608.5	12506		
60	12609	12506.5		

¹⁾ 12520 kHz is the distress frequency for telex communications.

Paired telex frequencies (NBDP) 16 MHz

All frequencies are assigned frequencies.

Channel number	Coast station TX (kHz)	Ship TX (kHz)
1	16807	16683.5
2	16807.5	16684
3	16808	16684.5
4	16808.5	16685
5	16809	16685.5
6	16809.5	16686
7	16810	16686.5
8	16810.5	16687
9	16811	16687.5
10	16811.5	16688
11	16812	16688.5
12	16812.5	16689
13	16813	16689.5
14	16813.5	16690
15	16814	16690.5
16	16814.5	16691
17	16815	16691.5
18	16815.5	16692
19	16816	16692.5
20	16816.5	16693
21	16817	16693.5
22	16817.5	16694
23	16818	16694.5
24 ¹⁾	16695	16695
25	16818.5	16695.5
26	16819	16696

27	16819.5	16696.5
28	16820	16697
29	16820.5	16697.5
30	16821	16698
31	16821.5	16698.5

¹⁾ 16695 kHz is the distress frequency for telex communications.

Paired telex frequencies (NBDP) 18/19 MHz

All frequencies are assigned frequencies.

Channel number	Coast station TX (kHz)	Ship TX (kHz)
7	19684	18873.5
8	19684.5	18874
9	19685	18874.5
10	19685.5	18875
11	19686	18875.5
12	19686.5	18876
13	19687	18876.5
14	19687.5	18877
15	19688	18877.5
16	19688.5	18878
17	19689	18878.5
18	19689.5	18879
19	19690	18879.5
20	19690.5	18880

Paired telex frequencies (NBDP) 22 MHz

All frequencies are assigned frequencies

Channel number	Coast station TX (kHz)	Ship TX (kHz)
13	22382.5	22290.5
14	22383	22291
15	22383.5	22291.5
16	22384	22292
17	22384.5	22292.5
18	22385	22293
19	22385.5	22293.5
20	22386	22294
21	22386.5	22294.5
22	22387	22295
23	22387.5	22295.5
24	22388	22296
25	22388.5	22296.5
26	22389	22297

Unpaired telex frequencies (NBDP) 4, 6, 8, 12, 16, 18, 22 and 25 MHz

All frequencies are assigned frequencies.

In addition to telex traffic these frequencies can be used for morse telegraphy working (AIA).

The frequencies are intended primarily for ship-to-ship communications.

They can also be used as ship station TX frequencies in ship-to-shore communications.

Channel number	Ship TX (kHz)	Ship TX (kHz)	Ship TX (kHz)	Ship TX (kHz)	Ship TX (kHz)	Ship TX (kHz)	Ship TX (kHz)	Ship TX (kHz)
1	4170.5	6260.25	8339.25	12419.25	16615.25	19961	22290	26101
2	4171	6260.75	8339.75	12419.75	16615.75		22297.5	26101.5
3	4171.5	63221	8375	12422	16616.25		22298	26102
4	4172	6321.5	8375.5	12476.5	16616.75		22298.5	26102.5
5	4179		8376	12655	16682		22299	
6	4179.5			12655.5	16682.5		22443.5	
7	4180			12656	16683			
8				12656.5				

Frequencies for data transmission ¹⁾**4-8 MHz**

Channel number	Coast station TX (kHz)	Ship TX (kHz)	Coast station TX (kHz)	Ship TX (kHz)	Coast station TX (kHz)	Ship TX (kHz)
1		4153.5 3) 4)		6234.5 3) 4)		8301.5 3) 4)
2		4156.5 3) 4)		6237.5 3) 4)		8304.5 3) 4)
3		4159.5 3) 4)		6240.5 3) 4)		8307.5 3) 4)

4		4162.5	3) 4)		6243.5	3) 4)		8310.5	3) 4)
5		4165.5	3) 4)		6246.5	3) 4)		8313.5	3) 4)
6		4168.5	3) 4)		6249.5	3) 4)		8316.5	3) 4)
7	4199.75	4181.75			6252.5	3) 4)		8319.5	3) 4)
8	4202.75	4184.75			6255.5	3) 4)		8322.5	3) 4)
9	4205.75	4187.75			6258.5	3) 4)		8325.5	3) 4)
10	4190.75	4190.75	2) 3)	6323.25	6271.25			8328.5	3) 4)
11	4103.75	4193.75	2) 3)	6326.25	6274.25			8331.5	3) 4)
12	4196.75	4196.75	2) 3)	6329.25	6277.25			8334.5	3) 4)
13	4217.75	4217.75	2)	6380.25	6280.25	2) 3)		8337.5	3) 4)
14				6283.25	6283.25	2) 3)	8409.5	8343.25	
15				6286.25	6286.25	2) 3)	8412.5	8346.25	
16				6289.25	6289.25	2) 3)	8425.5	8349.25	
17				6292.25	6292.25	2) 3)	8428.5	8352.25	3)
18				6295.25	6295.25	2) 3)	8431.5	8355.25	3)
19				6298.25	6298.25	2) 3)	8434.5	8358.25	3)
20				6301.25	6301.25	2) 3)	8361.25	8361.25	2) 3)
21				6304.25	6304.25	2) 3)	8364.25	8364.25	2) 3)
22				6307.25	6307.25	2) 3)	8367.25	8367.25	2) 3)
23				6310.25	6310.25	2) 3)	8370.25	8370.25	2) 3)
24							8373.25	8373.25	2) 3)
25							8385.25	8385.25	2) 3)
26							8388.25	8388.25	2) 3)
27							8391.25	8391.25	2) 3)
28							8394.25	8394.25	2) 3)
29							8397.25	8397.25	2) 3)
30							8400.25	8400.25	2) 3)
31							8403.25	8403.25	2) 3)
32							8406.25	8406.25	2) 3)

12-18 MHz

Channel number	Coast station TX (kHz)	Ship TX (kHz)	Coast station TX (kHz)	Ship TX (kHz)	Coast station TX (kHz)	Ship TX (kHz)
1		12369.5 3) 4)		16550.5 3) 4)		18847.2 3) 4)
2		12372.5 3) 4)		16553.5 3) 4)		18850.5 3) 4)
3		12375.5 3) 4)		16556.5 3) 4)		18853.5 3) 4)
4		12378.5 3) 4)		16559.5 3) 4)		18856.5 3) 4)
5		12381.5 3) 4)		16562.5 3) 4)		18859.5 3) 4)
6		12384.5 3) 4)		16565.5 3) 4)		18862.5 3) 4)
7		12387.5 3) 4)		16568.5 3) 4)		18865.5 3) 4)
8		12390.5 3) 4)		16571.5 3) 4)		18868.5 3) 4)
9		12393.5 3) 4)		16574.5 3) 4)		18871.5 3) 4)
10		12396.5 3) 4)		16577.5 3) 4)	19682.25	18881.75
11		12399.5 3) 4)		16580.5 3) 4)	19692.75	18884.75
12		12402.5 3) 4)		16583.5 3) 4)	19695.75	18887.75 3)
13		12405.5 3) 4)		16586.5 3) 4)	19698.75	18890.75 3)
14		12408.4 3) 4)		16589.5 3) 4)	19701.75	18893.75 3)
15		12411.5 3) 4)		16592.5 3) 4)	18896.75	18896.75 2)
16		12414.5 3) 4)		16595.5 3) 4)		
17		12417.5 3) 4)		16598.5 3) 4)		
18	12626.25	12423.75		16601.5 3) 4)		
19	12629.25	12426.75		16604.5 3) 4)		
20	12632.25	12429.75		16607.5 3) 4)		
21	12635.25	12432.75		16610.5 3) 4)		
22	12638.25	12435.75		16613.5 3) 4)		

Channel number	Coast station TX (kHz)	Ship TX (kHz)	Coast station TX (kHz)	Ship TX (kHz)
23	12641.25	12438.75	16841.25	16620.25
24	12644.25	12441.75	16844.25	16623.25
25	12647.25	12444.75	16847.25	16626.25
26	12650.25	12447.75	16850.25	16629.25
27	12653.25	12450.75	16853.25	16632.25
28	12453.75	12453.75 2) 3)	16856.25	16635.25
29	12456.75	12456.75 2) 3)	16859.25	16638.25
30	12459.75	12459.75 2) 3)	16862.25	16641.25
31	12462.75	12462.75 2) 3)	16865.25	16644.25
32	12465.75	12465.75 2) 3)	16868.25	16647.25 3)
33	12468.75	12468.75 2) 3)	16871.25	16650.25 3)
34	12471.75	12471.75 2) 3)	16874.25	16653.25 3)
35	12474.75	12474.75 2) 3)	16877.25	16656.25 3)
36	12524.25	12524.25 2) 3)	16880.25	16659.25 3)
37	12527.25	12527.25 2) 3)	16883.25	16662.25 3)
38	12530.25	12530.25 2) 3)	16886.25	16665.25 3)
39	12533.25	12533.25 2) 3)	16889.25	16668.25 3)
40	12536.25	12536.25 2) 3)	16892.25	16671.25 3)
41	12539.25	12539.25 2) 3)	16895.25	16674.25 3)
42	12542.25	12542.25 2) 3)	16898.25	16677.25 3)
43	12545.25	12545.25 2) 3)	16901.25	16680.25 3)
44	12548.25	12548.25 2) 3)	16700.5	16700.5 2) 3)
45	12551.25	12551.25 2) 3)	16703.5	16703.5 2) 3)
46	12554.25	12554.25 2) 3)	16706.15	16706.15 2) 3)
47	12557.25	12557.25 2) 3)	16709.5	16709.5 2) 3)
48	12560.25	12560.25 2) 3)	16712.5	16712.5 2) 3)
49	12563.25	12563.25 2) 3)	16715.5	16715.5 2) 3)
50	12566.25	12566.25 2) 3)	16718.5	16718.5 2) 3)
51	12569.25	12569.25 2) 3)	16721.5	16721.5 2) 3)
52	12572.25	12572.25 2) 3)	16724.5	16724.5 2) 3)
53	12575.25	12575.25 2) 3)	16727.5	16727.5 2) 3)
54			16730.5	16730.5 2) 3)
55			16733.5	16733.5 2) 3)
56			16736.5	16736.5 2) 3)
57			16739.5	16739.5 2) 3)
58			16742.5	16742.5 2) 3)
59			16745.5	16745.5 2) 3)
60			16748.4	16748.4 2) 3)
61			16751.5	16751.5 2) 3)
62			16754.5	16754.5 2) 3)
63			16757.5	16757.5 2) 3)
64			16760.5	16760.5 2) 3)
65			16763.5	16763.5 2) 3)
66			16766.5	16766.5 2) 3)
67			16769.5	16769.5 2) 3)
68			16772.5	16772.5 2) 3)
69			16775.5	16775.5 2) 3)
70			16778.5	16778.5 2) 3)
71			16781.5	16781.5 2) 3)
72			16784.5	16784.5 2) 3)
73			16787.5	16787.5 2) 3)
74			16790.5	16790.5 2) 3)
75			16793.5	16793.5 2) 3)
76			16796.5	16796.5 2) 3)
77			16799.5	16799.5 2) 3)
78			16802.5	16802.5 2) 3)
79			16823.5	16823.5 2) 3)

80		16826.5	16826.5	2) 3)
81		16829.5	16829.5	2) 3)
82		16832.5	16832.5	2) 3)
83		16835.5	16835.5	2) 3)
84		16838.5	16838.5	2) 3)

22-25 MHz

Channel number	Coast station TX (kHz)	Ship TX (kHz)	Coast station TX (kHz)	Ship TX (kHz)
1		22181.5 3) 4)		25122.5 3) 4)
2		22184.5 3) 4)		25125.5 3) 4)
3		22187.5 3) 4)		25128.5 3) 4)
4		22190.5 3) 4)		25131.5 3) 4)
5		22193.5 3) 4)		25134.5 3) 4)
6		22196.5 3) 4)		25137.5 3) 4)
7		22199.5 3) 4)		25140.5 3) 4)
8		22202.5 3) 4)		25143.5 3) 4)
9		22205.5 3) 4)		25146.5 3) 4)
10		22208.5 3) 4)		25149.5 3) 4)
11		22211.5 3) 4)		25152.5 3) 4)
12		22214.5 3) 4)		25155.5 3) 4)
13		22217.5 3) 4)		25158.5 3) 4)
14		22220.5 3) 4)	26104.25	25161.5
15		22223.5 3) 4)	26107.25	25164.5
16		22226.5 3) 4)	26110.25	25167.5
17		22229.5 3) 4)	26113.25	25170.5 3)
18		22232.5 3) 4)	26116.25	25173.5 3)
19		22235.5 3) 4)	26119.25	25176.5 3)
20		22238.5 3) 4)	25179.5	25179.5 2) 3)
21	22390.75	22243.25	25182.5	15182.5 2) 3)
22	22393.75	22246.25	25185.5	25185.5 2) 3)
23	22396.75	22249.25	25188.5	25188.5 2) 3)
24	22399.75	22252.25	25191.5	25191.5 2) 3)
25	22402.75	22255.25	25194.5	25194.5 2) 3)
26	22405.75	22258.25	25197.5	25197.5 2) 3)
27	22408.75	22261.25 3)	25200.5	25200.5 2) 3)
28	22411.75	22264.25 3)	25203.5	25203.5 2) 3)
29	22414.75	22267.25 3)	25206.5	25206.5 2) 3)
30	22417.75	22270.25 3)		
31	22420.75	22273.25 3)		
32	22423.75	22276.25 3)		
33	22426.75	22279.25 3)		
34	22429.75	22282.25 3)		
35	22432.75	22285.25 3)		
36	22435.75	22288.25 3)		
37	22300.75	22300.75 2) 3)		
38	22303.75	22303.75 2) 3)		
39	22306.75	22306.75 2) 3)		
40	22309.75	22309.75 2) 3)		
41	22312.75	22312.75 2) 3)		
42	22315.75	22315.75 2) 3)		
43	22318.75	22318.75 2) 3)		
44	22321.75	22321.75 2) 3)		
45	22324.75	22324.75 2) 3)		
46	22327.75	22327.75 2) 3)		
47	22330.75	22330.75 2) 3)		
48	22333.75	22333.75 2) 3)		

49	22336.75	22336.75	2) ¹⁾ 3)
50	22339.75	22339.75	2) ¹⁾ 3)
51	22342.75	22342.75	2) ¹⁾ 3)
52	22345.75	22345.75	2) ¹⁾ 3)
53	22348.75	22348.75	2) ¹⁾ 3)
54	22351.75	22351.75	2) ¹⁾ 3)
55	22354.75	22354.75	2) ¹⁾ 3)
56	22357.75	22357.75	2) ¹⁾ 3)
57	22360.75	22360.75	2) ¹⁾ 3)
58	22363.75	22363.75	2) ¹⁾ 3)
59	22366.75	22366.75	2) ¹⁾ 3)
60	22369.75	22369.75	2) ¹⁾ 3)
61	22372.75	22372.75	2) ¹⁾ 3)
62	22438.75	22377.75	
63	22441.75	22380.75	

¹⁾ The data transmission should be according to the newest version of the Recommendation ITU-R M.1798.

²⁾ Only unpaired simplex use.

³⁾ Can be used in broadband use by connecting several adjacent 3 kHz channels.

⁴⁾ Can be used as a channel pair with broadband coast station channels on the same frequency band.