

Class of emissions applicable for different radiocommunication systems

Radiocommunication services/ examples of systems	Description of emissions	Classes of emission
Mobile service		
GSM (2G), GPRS (2.5G), EDGE (2.75G), UMTS (3G)	Phase modulation multichannels containing quantized or digital information	G7W
Other systems	Amplitude-modulated, single-channel, continuous-wave telegraphy	A1A/ A1B/A2A/A2B
	Amplitude-modulated, double-sideband analogue telephony	A3E
	Frequency modulation containing quantized or digital information, telegraphy	F1B
	Frequency modulation analogue telephony	F3E
	Single channel phase modulation telegraphy	G1B
	Single-sideband and independent-sideband amplitude-modulated emissions for telephony or multi-channel voice-frequency telegraphy	J3E or J7B
	Single-sideband, suppressed carrier with single channel containing quantized or digital information for data transmission	J2D
Fixed service		
Digital Radio-relay system	Phase modulation with two or more channels with quantized or digital information	G7W
Digital Radio-relay system	Amplitude and angle-modulation with two or more channels with quantized or digital information	D7W
Radio-relay system	Pulse position modulated with two or more channels with quantized or digital information, telephony	M7E
Radiolocation service		
Radars	Unmodulated pulse emission	P0N
Radionavigation service		
Radionavigation radars	Pulses emission, angle-modulated, with a single channel containing analogue information	Q3N

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Aeronautical service		
VOR: VHF omnidirectional radio range	Amplitude-modulated, double-sideband with multichannel containing analogue information	A8W
Aeronautical radionavigation radars	Pulses emission, angle-modulated, with a single channel containing analogue information	Q3N
TV broadacsting		
ATSC	VSB	C7W
DVB-T	COFDM (QPSK, 16-QAM, 64-QAM)	X7F/X7FXF
DVB-T2	COFDM (QPSK, 16-QAM, 64-QAM, 256-QAM)	X7F/X7FXF
DVB-H	COFDM	X7F/X7FXF
ISDB-T	COFDM	X7F/X7FXF
MMDS	QAM	X7F/X7FXF
T-DAB	COFDM	X7E/X7EXF
Sound broadcasting		
LF/MF Bands	AM	A3E
Broadcasting in tropical zone	AM	A3E/A8E
FM Band	FM	F3E/F8E
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> References: Appendix 1 to the RR GE06 Agreement Recommendation ITU-R SM.328-11 Recommendation ITU-R SM.1138-2 </div>		