

## Commonly notified classes of emission

Examples of radio systems	Description of emissions	Classes of emission
<b>Mobile service – IMT systems</b> (e.g. GSM (2G), GPRS (2.5G), EDGE (2.75G), UMTS (3G), CDMA (3G), IMT-Adv. (4G) and etc.)	Phase modulation multichannel containing quantized or digital information	G7W
<b>Other mobile systems</b>	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/J7B
	Single-sideband, suppressed carrier with single channel containing quantized or digital information for data transmission	J2D

Examples of radio systems	Description of emissions	Classes of emission
<b>Fixed service systems</b>	Phase modulation with two or more channels with quantized or digital information for digital radio-relay system	G7W
	Amplitude and angle-modulation with two or more channels with quantized or digital information for digital radio-relay system	D7W
	Pulse position modulated with two or more channels with quantized or digital information, telephony for radio-relay system	M7E
<b>Radiolocation service systems</b>	Unmodulated pulse emission for Radars	P0N
<b>Radionavigation service systems</b>	Pulses emission, angle-modulated, with a single channel containing analogue information for radionavigation radars	Q3N
<b>Aeronautical service systems</b>	Amplitude-modulated, double-sideband with multichannel containing analogue information for VOR: VHF omnidirectional radio range	A8W
	Pulses emission, angle-modulated, with a single channel containing analogue information for Aeronautical radionavigation radars	Q3N

Examples of radio systems	Description of emissions	Classes of emission
<b>TV broadcastings Systems</b>		
ATSC 1.0	VSB	C7W
ATSC 3.0	OFDM	D7W
DVB-T	OFDM (QPSK, 16-QAM, 64-QAM)	X7FXF
DVB-T2	COFDM (QPSK, 16-QAM, 64-QAM, 256-QAM)	X7FXF
DVB-H	OFDM	X7F
ISDB-T	SOFDM	X7F
ISDB-T(Multimedia System F)	OFDM	X7WXF
T-DMB	COFDM	X7WXF
<b>Sound broadcasting Systems</b>		
T-DAB	COFDM	X7EXF
T-DMB	COFDM	X7WXF
DRM	COFDM	X7WWF
LF/MF Bands	AM	A3E
Broadcasting in tropical zone	AM	A3E/A8E
FM Band	FM	F3E/F8E

References:

- Appendix 1 to the Radio Regulations
- GE06 Agreement
- Recommendations ITU-R SM.328, SM.1138, M.1823, BT.1306, BT.2016 and BS.1114
- Preface to the BR IFIC