Appendix B - GNSS systems overview with signal notation and frequency

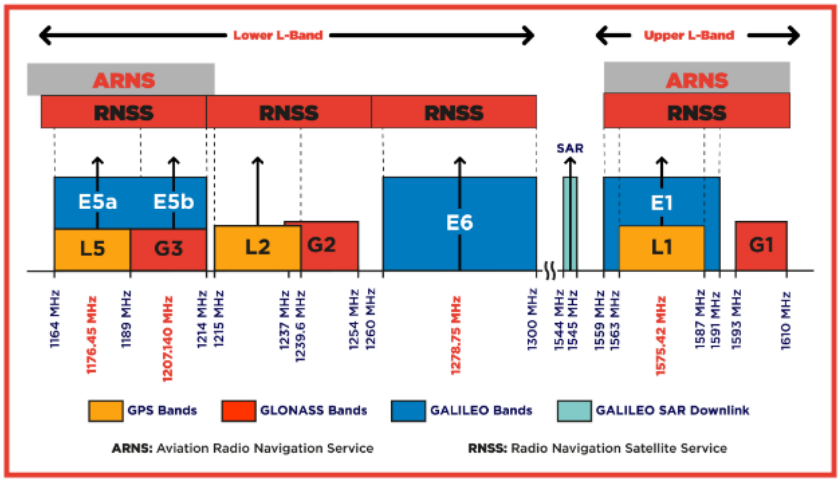
GNSS band acronym	Frequency band
L1 = GPS band L1,	1563 – 1587 MHz
L2 = GPS band L2,	1215 – 1240 MHz
L5 = GPS band L5,	1164 – 1189 MHz
G1 = Glonass band G1	1593 – 1610 MHz
G2 = Glonass band G2	1237 – 1254 MHz
G3 = Glonass band G3	1189 – 1214 MHz
B1L = Beidou legacy band B1I	1559 – 1563 MHz
B1C = Beidou band B1	1559 – 1592 MHz
B2a = Beidou band B2a	1166 – 1187 MHz
B2b = Beidou band B2b	1197 – 1217 MHz
B3l = Beidou band B3	1258 – 1279 MHz
E5a = Galileo band E5a	1164 – 1189 MHz
E5b = Galileo band E5b	1189 – 1214 MHz
E1 = Galileo band E1	1559 – 1591 MHz
E6 = Galileo band E6	1260 – 1300 MHz

Disclaimers:

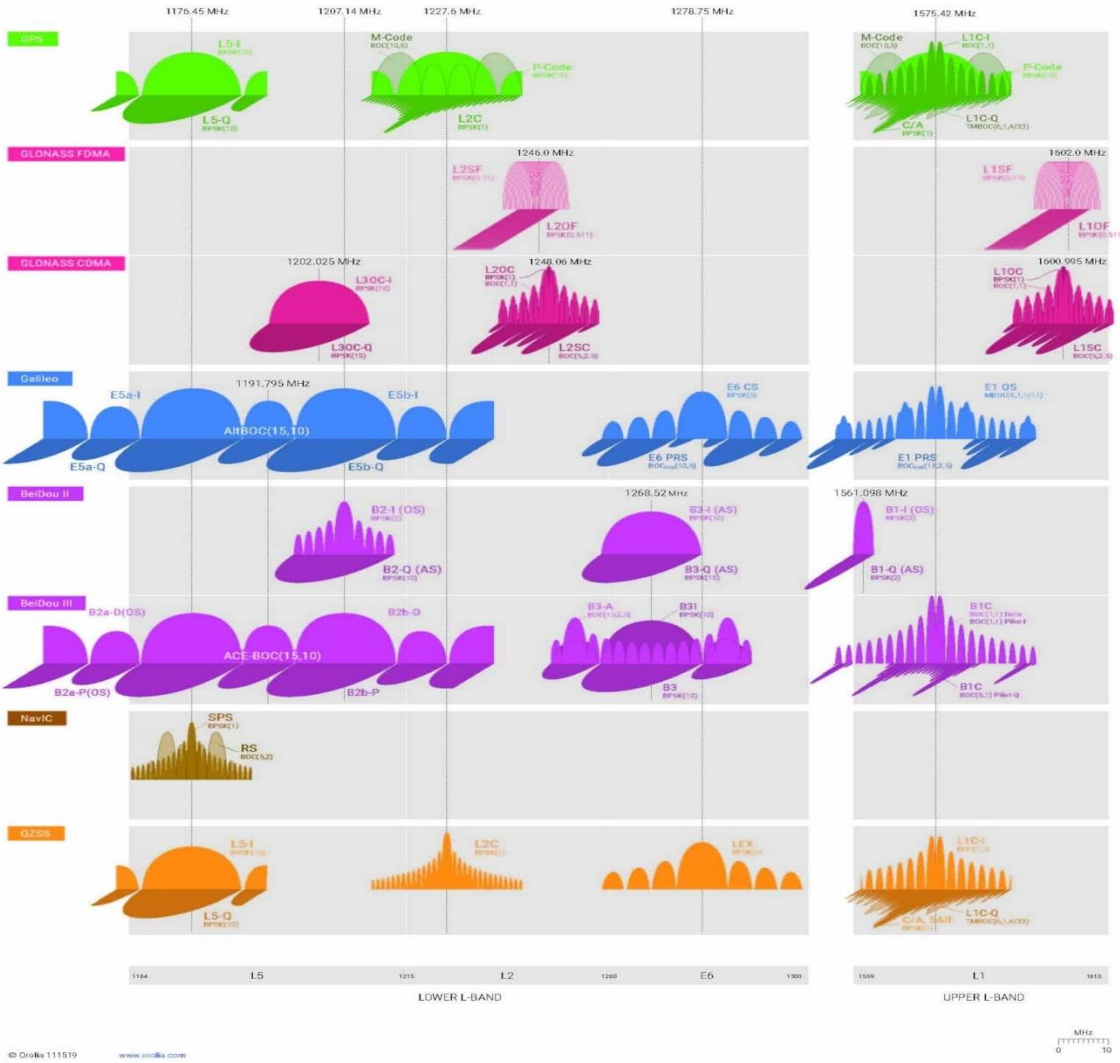
When GNSS bands are proclaimed in a given test, the transmissions will be somewhere in the above-mentioned frequency bandwidth.

We annotate a GNSS band as affected by GNSS RFI, if the jammer, spoofer or meaconing signal covers the centre frequency of the given GNSS band. Whether the GNSS band reception is affected is largely dependent on reception conditions, and the receiver equipment itself.

GNSS System	Signal Notation	Signal Frequency (MHz)
GPS	L1 C/A	1575.42
	L1C	1575.42
	L2 C	1227.6
	L2 P	1227.6
	L5	1176.45
GLONASS	L1 C/A	1598.0625-1609.3125
	L2 C	1242.9375-1251.6875
	L2 P	1242.9375-1251.6875
	L3 OC	1202.025
Galileo	E1	1575.42
	E5a	1176.45
	E5b	1207.14
	E5 AltBOC	1191.795
	E6	1278.75
BeiDou	B1I	1561.098
	B2I	1207.14
	B3I	1268.52
	B1C	1575.42
	B2a	1176.45
	B2b	1207.14
NAVIC	L5	1176.45
SBAS	L1	1575.42
	L5	1176.45
QZSS	L1 C/A	1575.42
	L1 C	1575.42
	L1S	1575.42
	L2C	1227.6
	L5	1176.45
	L6	1278.75



The GNSS Spectrum



www.orolia.com