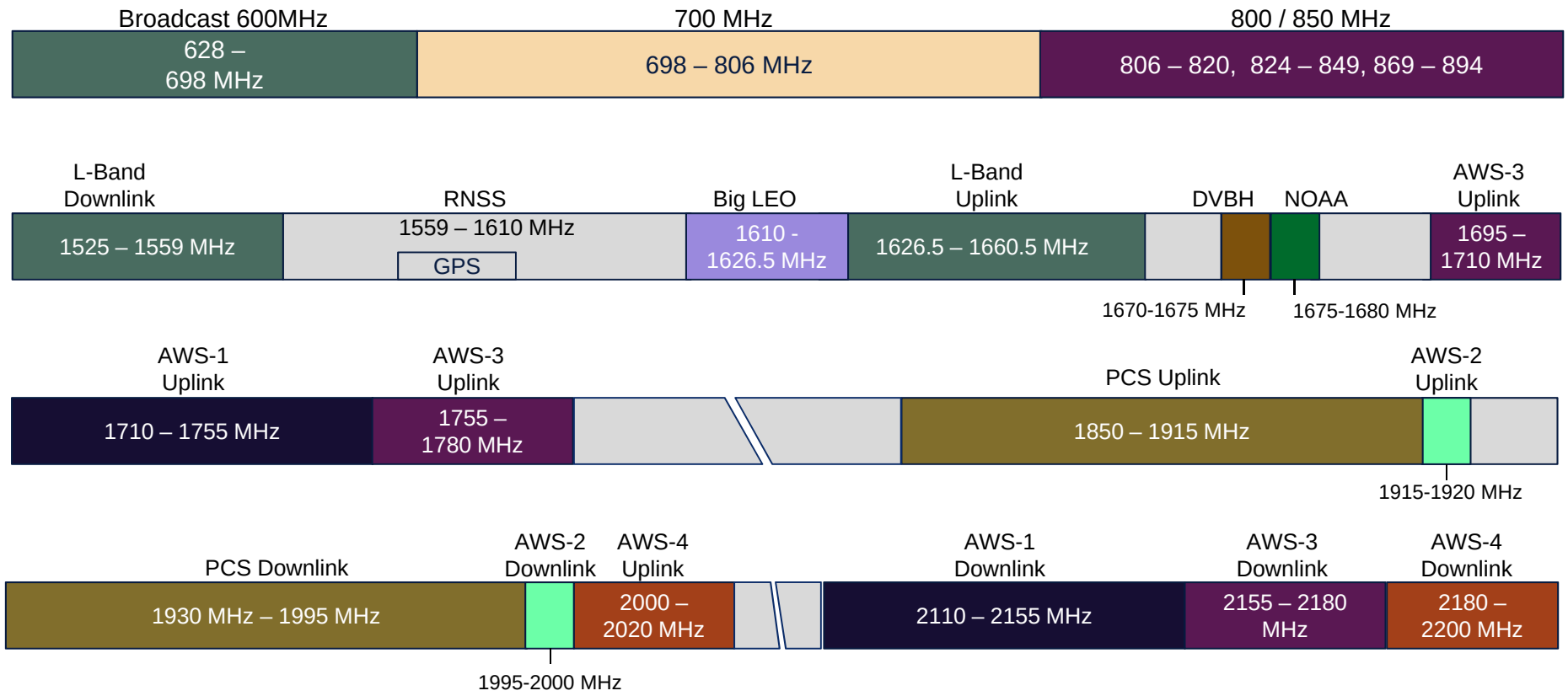
FCC Workshop on GPS Protection and Receiver Performance

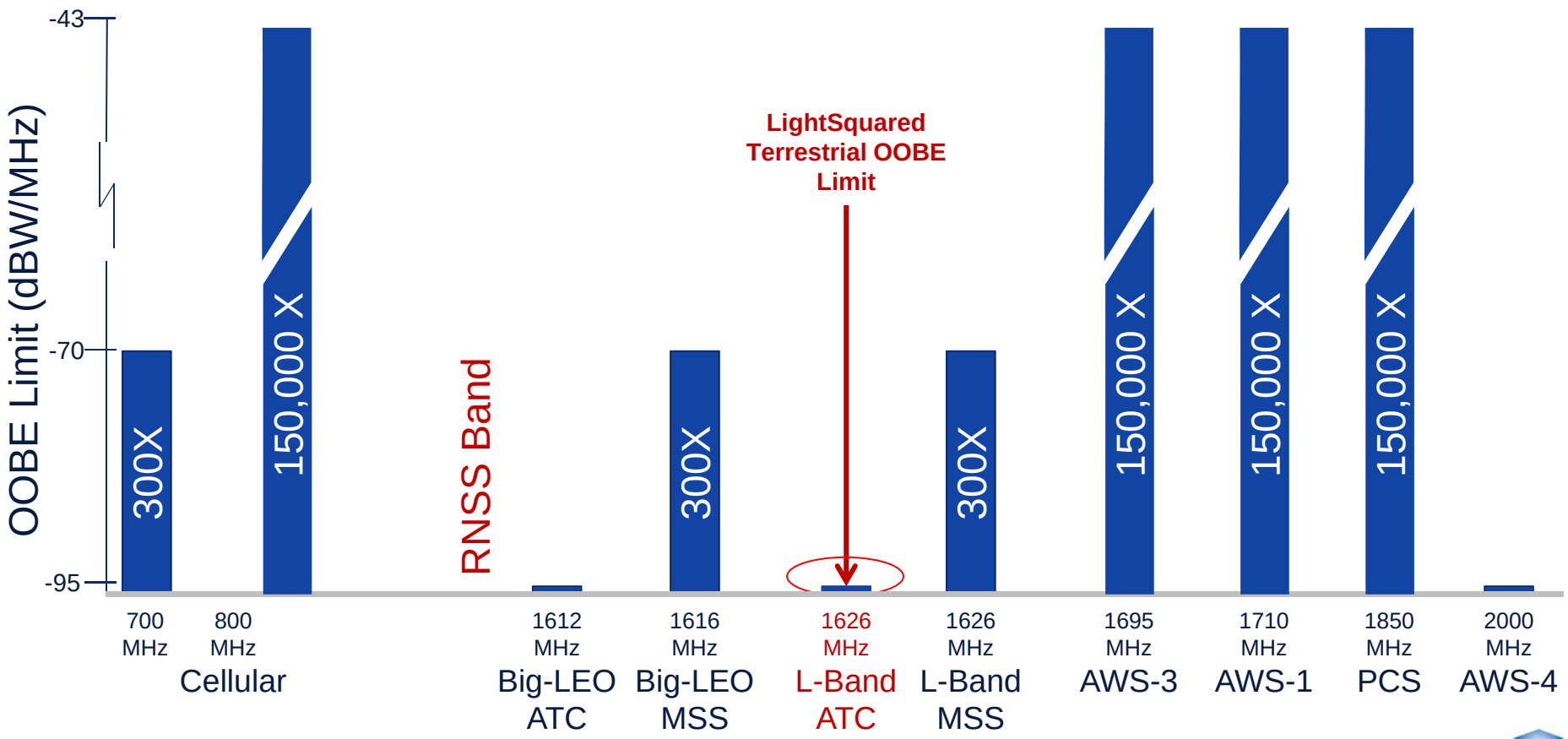
Geoffrey Stearn
Vice President Spectrum Development
LightSquared

June 20, 2014

Spectrum Neighborhood



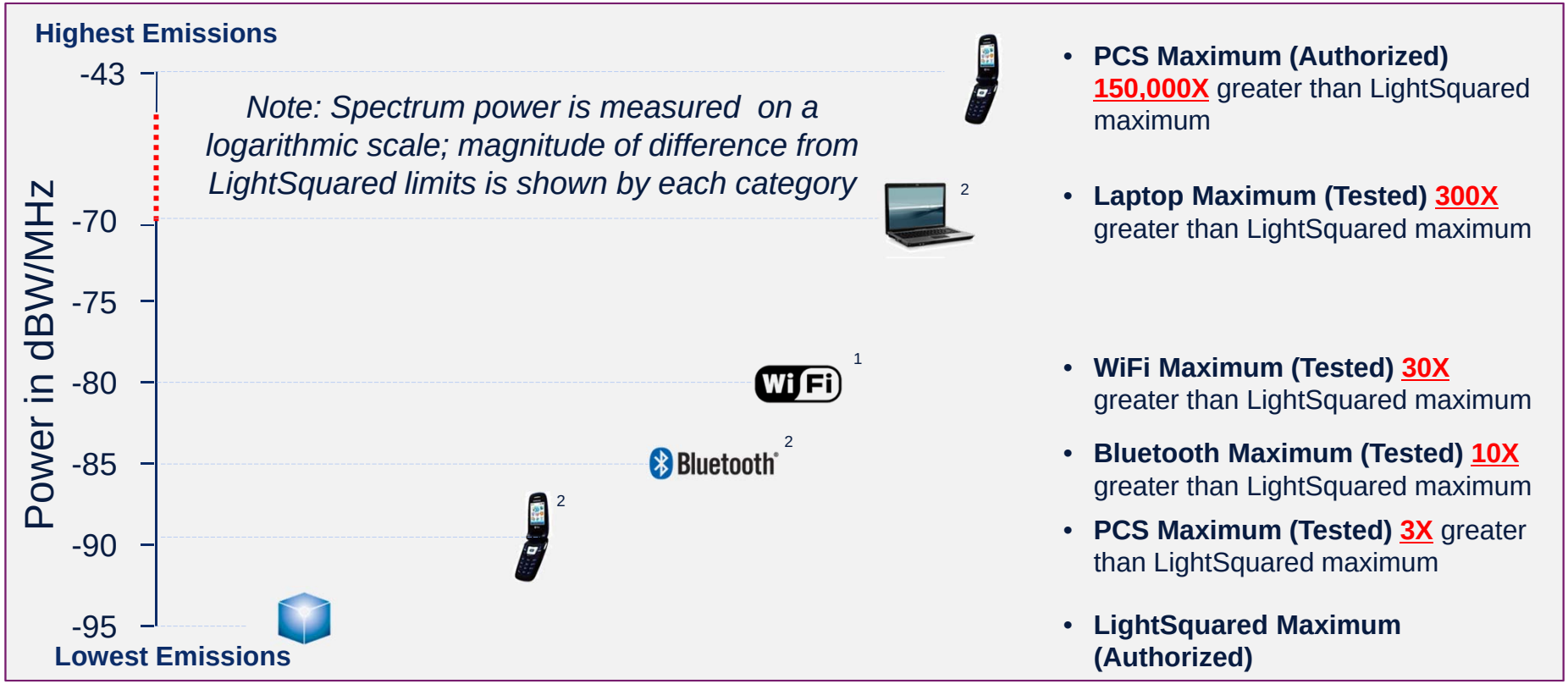
FCC Permitted OOBE Limits Into RNSS Band By Service



Distances Between Spectrum Bands Are Not To Scale

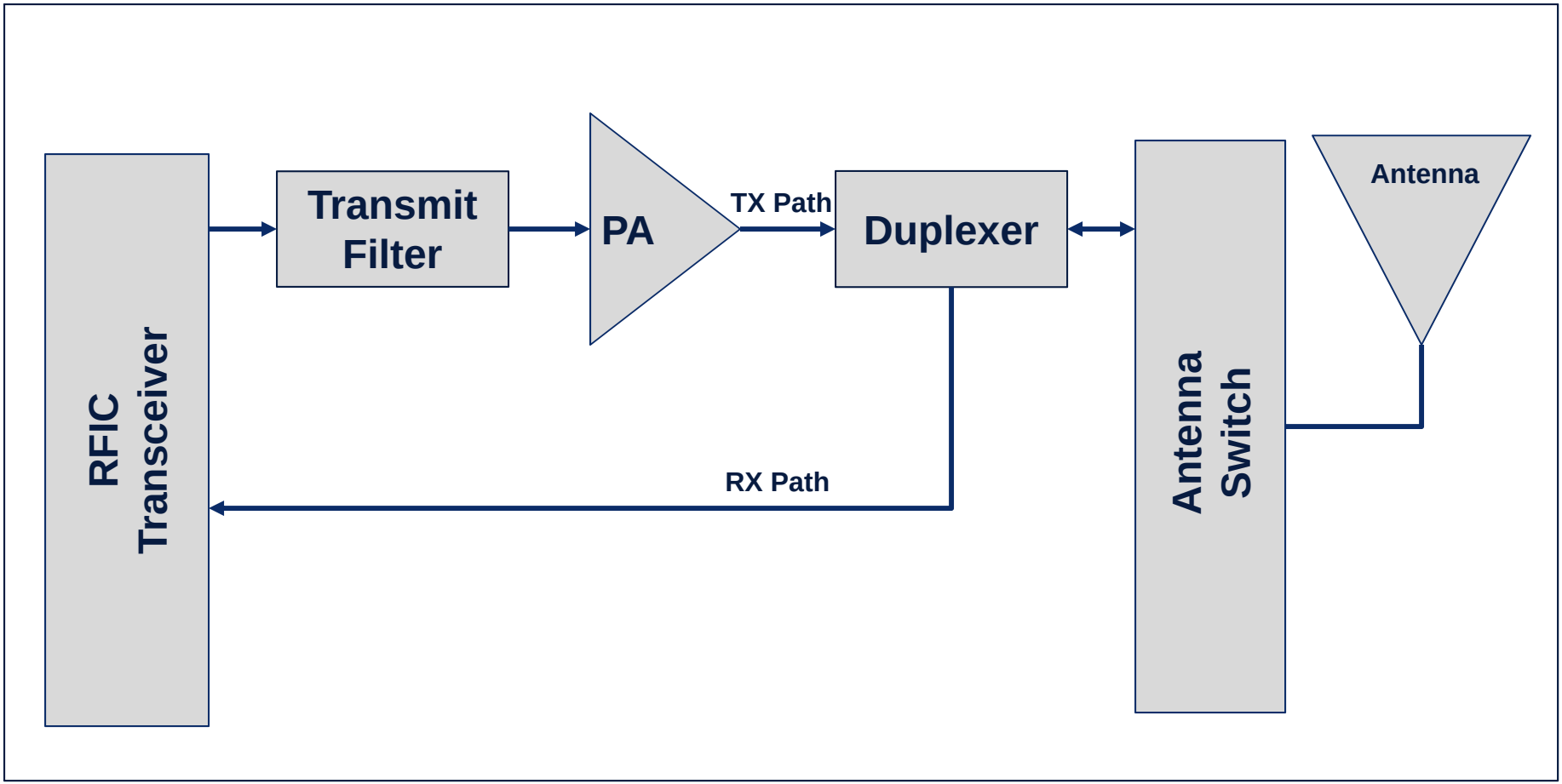
LightSquared

Comparison of Power into the GPS Band (Wideband)



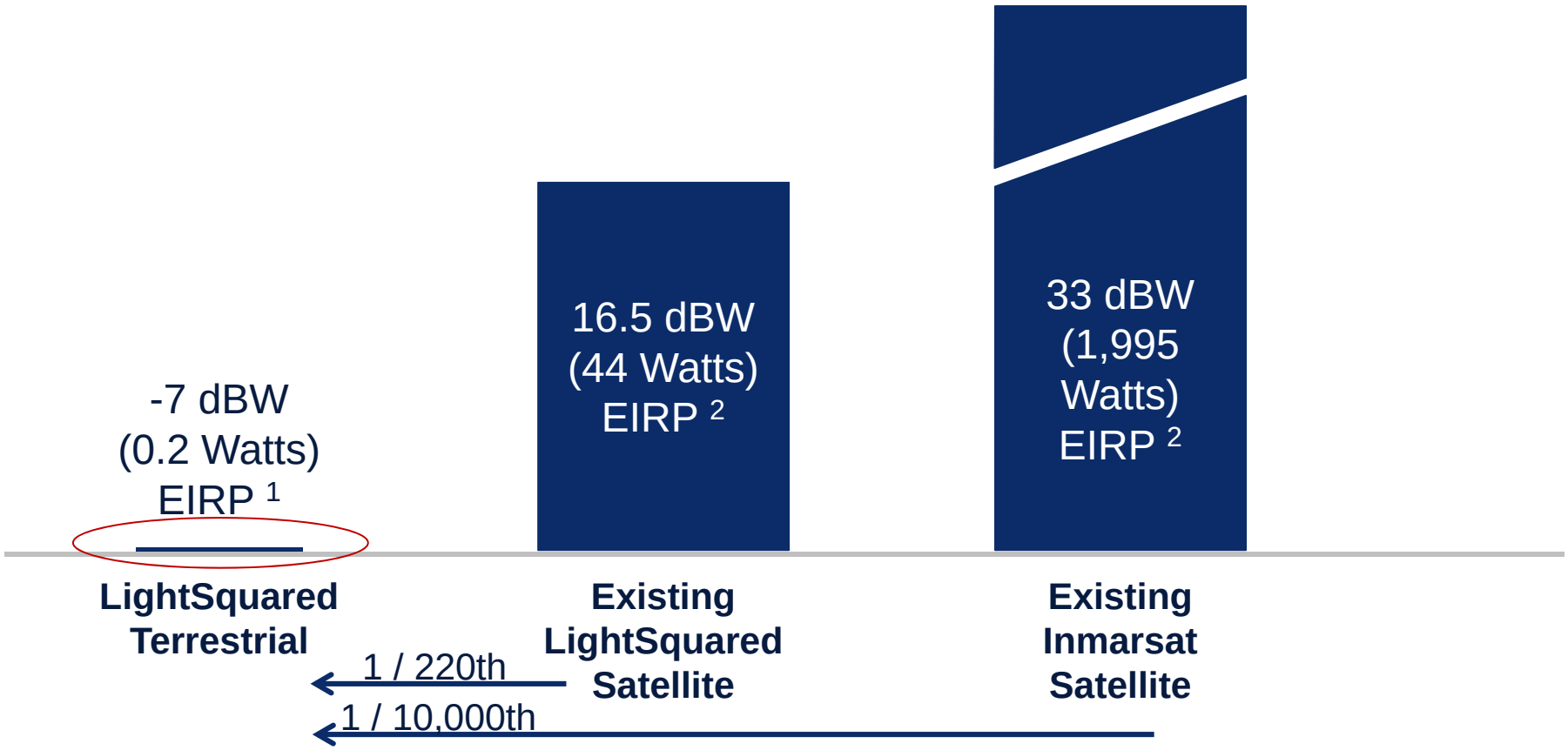
[1] Source: NASA Report CR-2004-213513, December 2004
[2] Source: NASA Report TP-2005-213537, March 2005

Typical Device Transmit Line-Up



LightSquared

Comparison of Maximum Uplink EIRP in MSS L-Band



[1] Maximum proposed operating EIRP

[2] Maximum value listed on carrier licenses