T-Mobile Stays Compatible with Adjacent Allocations

FCC GPS Workshop
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T-Mobile bands are distant from RNSS/GPS

• T-Mobile bands are 100 MHz or farther away from the RNSS/GPS band, should have little concern to the RNSS/GPS band

• T-Mobile operating bands:
  - The AWS-1 band: 1710-1755; 2110-2155
  - The PCS band: 1850-1910; 1930-1990
  - Band 12: 699-716; 729-746

  The RNSS/GPS band is in 1559-1610
  - GPS receiver centered at 1575.4 MHz
T-Mobile compatible with adjacent allocations

- T-Mobile manages interference and stays compatible with adjacent allocations, compliant with the FCC rules and 3GPP standards

- FCC OOB rule
  - $43 + 10 \times \log(P)$,
  - or -13 dBm/MHz

- 3GPP requirements
  - Out of band emissions
  - Spurious emissions
T-Mobile Band 4 LTE UE Compliant with FCC OOBE

- Source: Measurement Report, FCC part 22, 24, & 27 LTE
  - EUT: Samsung portable handset, FCC ID: A3SLMG386T

Note: the spectrum analyzer noise may have some effect on the spurious emissions power measurement. The true spurious emissions levels may be lower.
T-Mobile Band 2 LTE UE Compliant with FCC OOB

- Source: Measurement Report, FCC part 22, 24, & 27 LTE
  - EUT: Samsung portable handset, FCC ID: A3SLMG386T

Note: the spectrum analyzer noise may have some effect on the spurious emissions power measurement. The true spurious emissions levels may be lower.
T-Mobile Band 12 LTE UE Compliant with FCC OOBE

- Source: Measurement Report, FCC part 22, 24, & 27 LTE
  - EUT: Samsung portable handset, FCC ID: A3SLMG386T

Note: the spectrum analyzer noise may have some effect on the spurious emissions power measurement. The true spurious emissions levels may be lower.