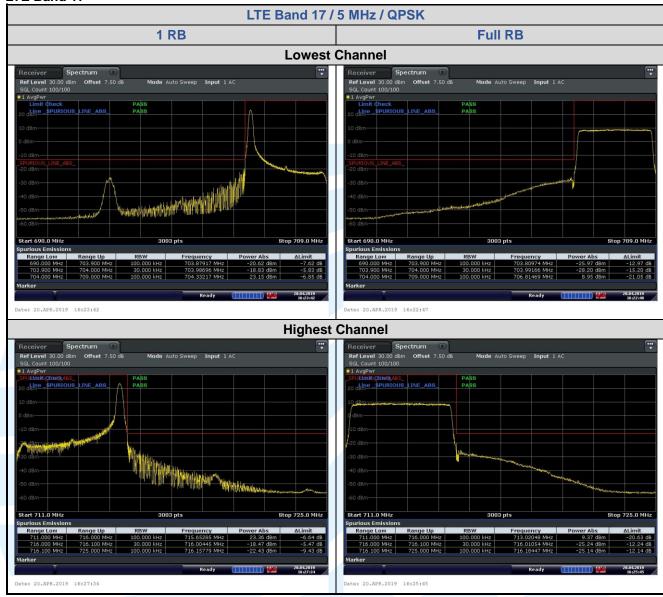
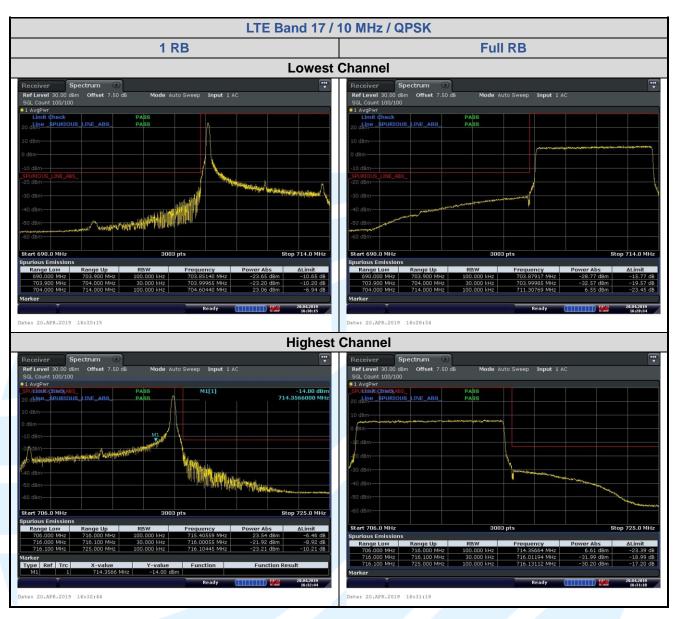
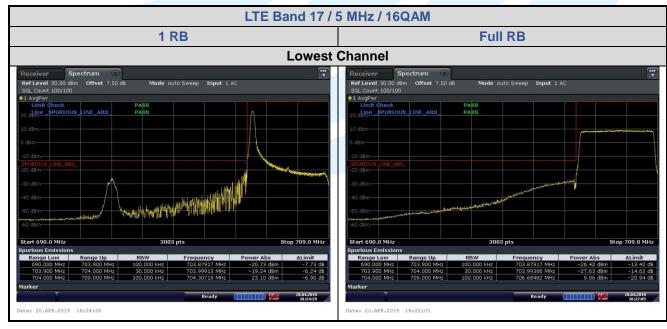


LTE Band 17



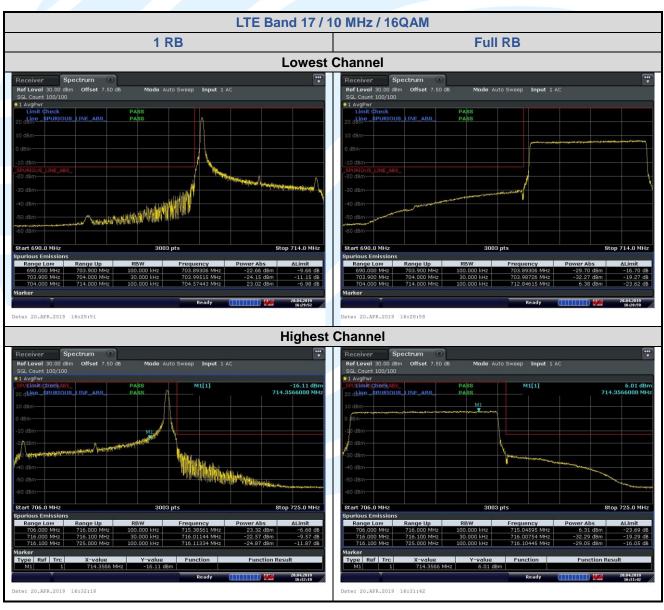












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5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

FCC 47 CFR Part 2.1051.

GSM 850 & WCDMA Band V & LTE Band 5: FCC 47 CFR Part 22.917(a)(b),

Test Requirement: GSM 1900 & WCDMA Band II & LTE Band 2: FCC 47 CFR Part 24.238(a)(b),

WCDMA Band IV & LTE Band 4: FCC 47 CFR Part 27.53(h)(1),

LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 22 & FCC 47 CFR Part 24: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(g): For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(h)(1): Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10 (P) dB. The emission limit equal to -13 dBm.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Link mode
Test Results: Pass



The test plots as follows: GSM 850 1Tx-slot **EDGE 850 1Tx-slot Lowest Channel** Avg Type: Log-Pwr Avg|Hold>50/50 Avg Type: Log-Pw Avg|Hold>50/50 Fast Trig: Free Run : Fast Trig: Free Run Ref Offset 15 dB Ref 35.00 dBm Next Pk Rigi Mkr→C Mkr→RefLv Mkr→RefL Stop 9.000 GH: Sweep 16.00 ms (40001 pts art 30 MHz es BW 1.0 MH **Middle Channel** Avg Type: Log-Pwr Avg|Hold>50/50 Marker 1 187.647750000 MHz Next Pea Next Pea Ref Offset 15 dB Ref 35.00 dBm Ref Offset 15 dB Ref 35.00 dBm Next Pk Rigi Marker De Mkr→C Stop 9.000 GHz Sweep 16.00 ms (40001 pts) #VBW 3.0 MHz #VBW 3.0 MHz **Highest Channel** larker 1 187.199250000 MHz arker 1 187.872000000 MHz Trig: Free Run 187.20 N -21.113 d Ref Offset 15 dB Ref 35.00 dBm Ref Offset 15 dB Ref 35.00 dBm Next Pk Le Marker Del Marker Delt #VBW 3.0 MHz



