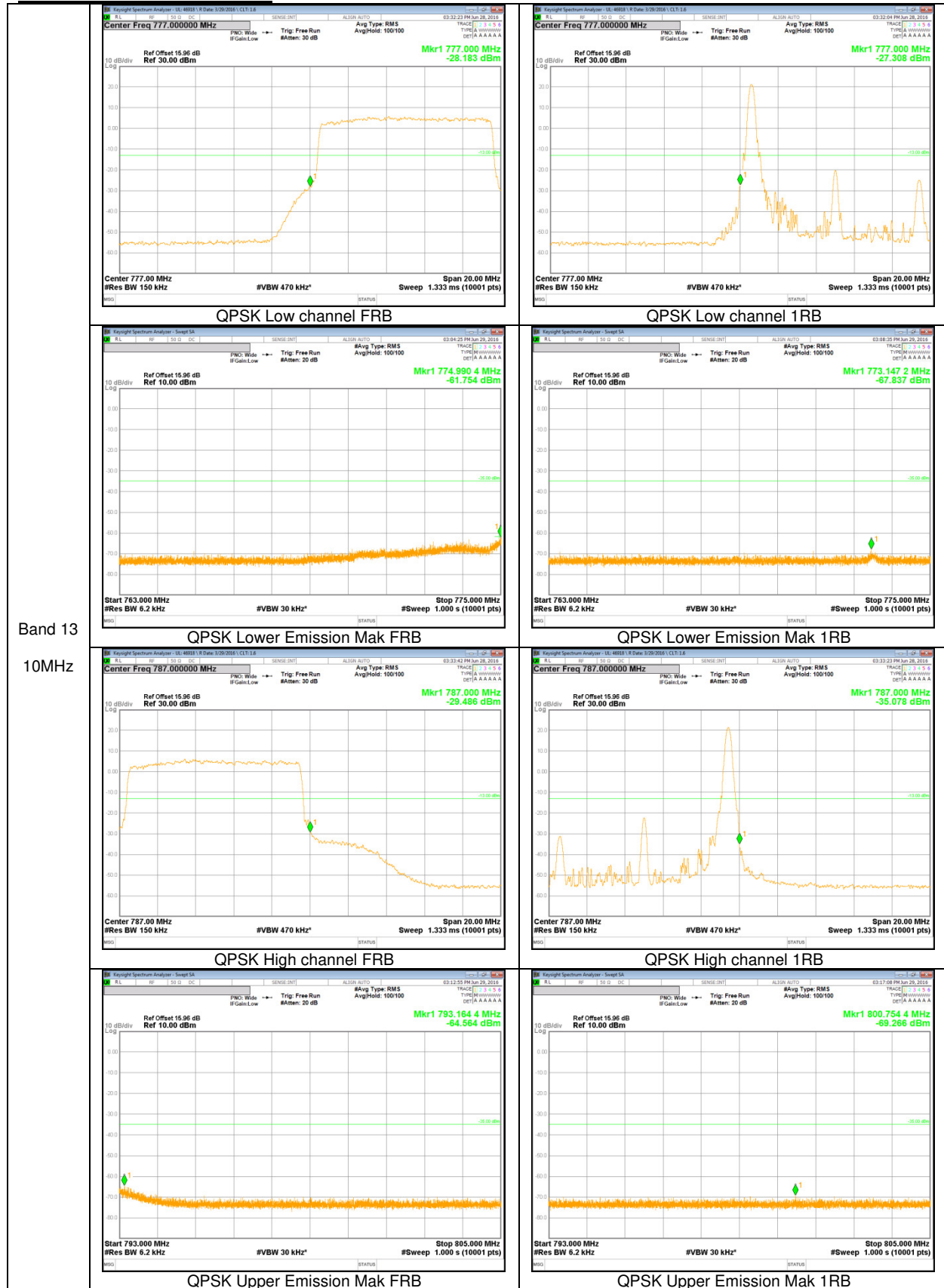
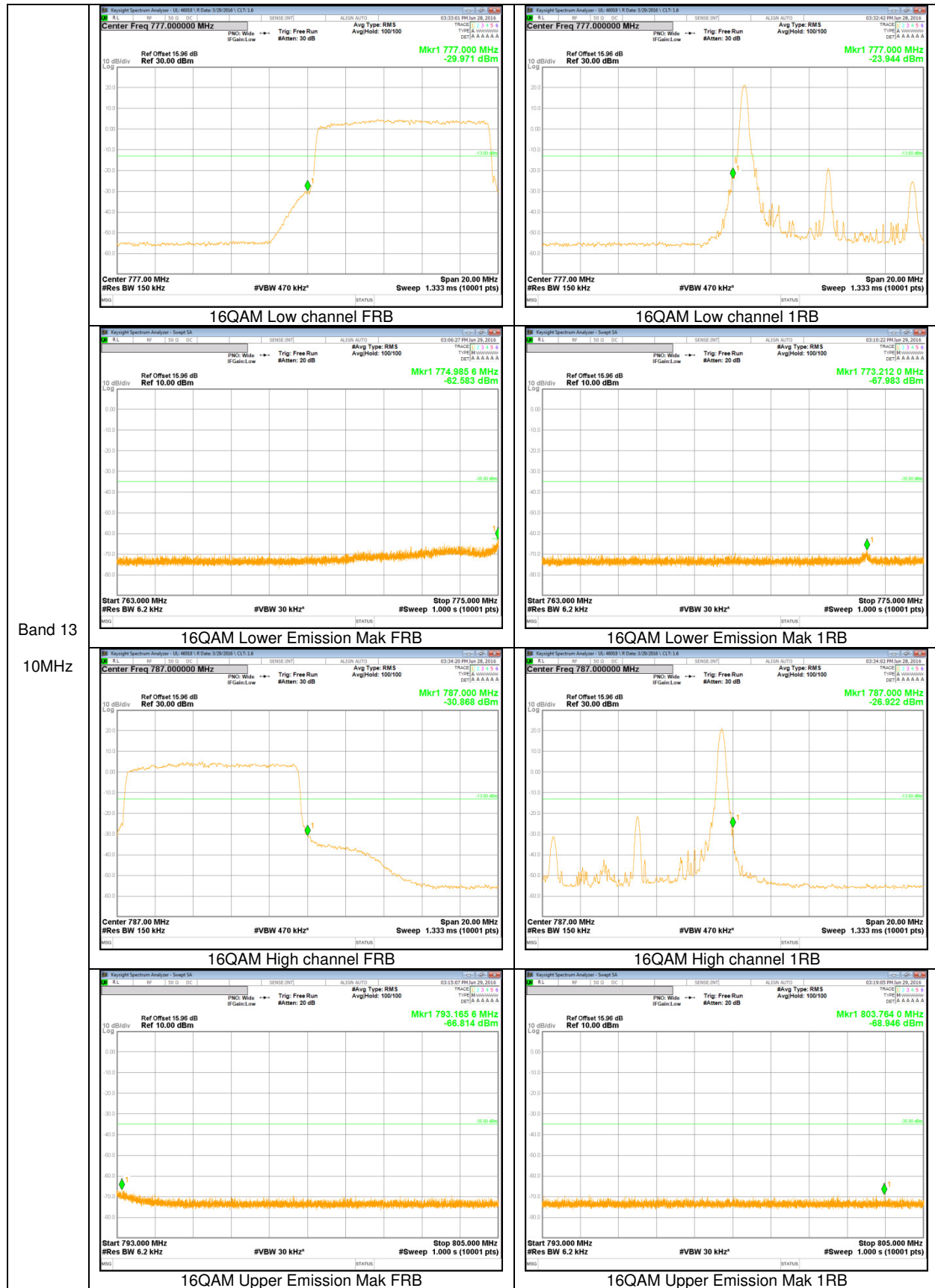
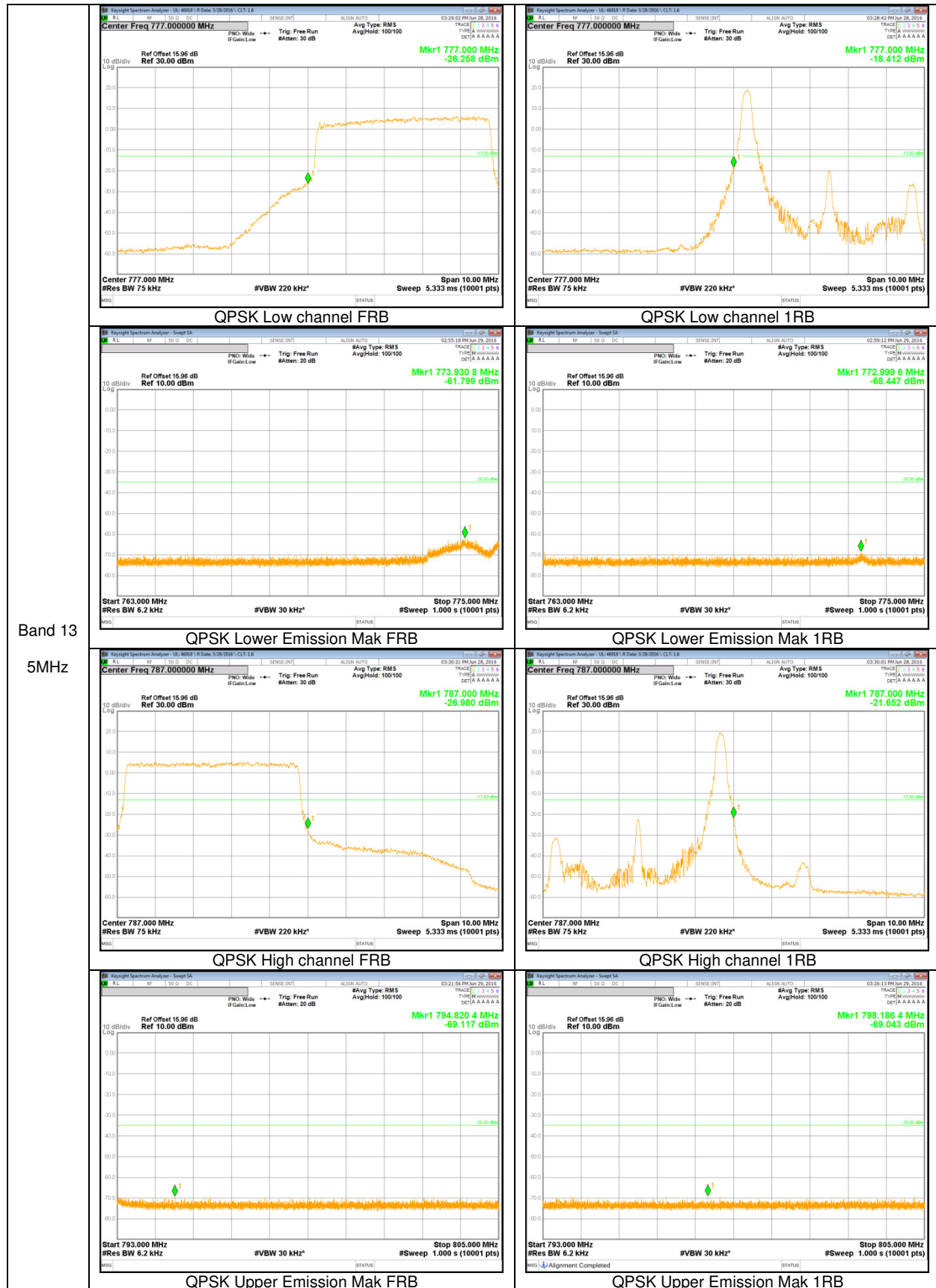


Band 12
1.4MHz

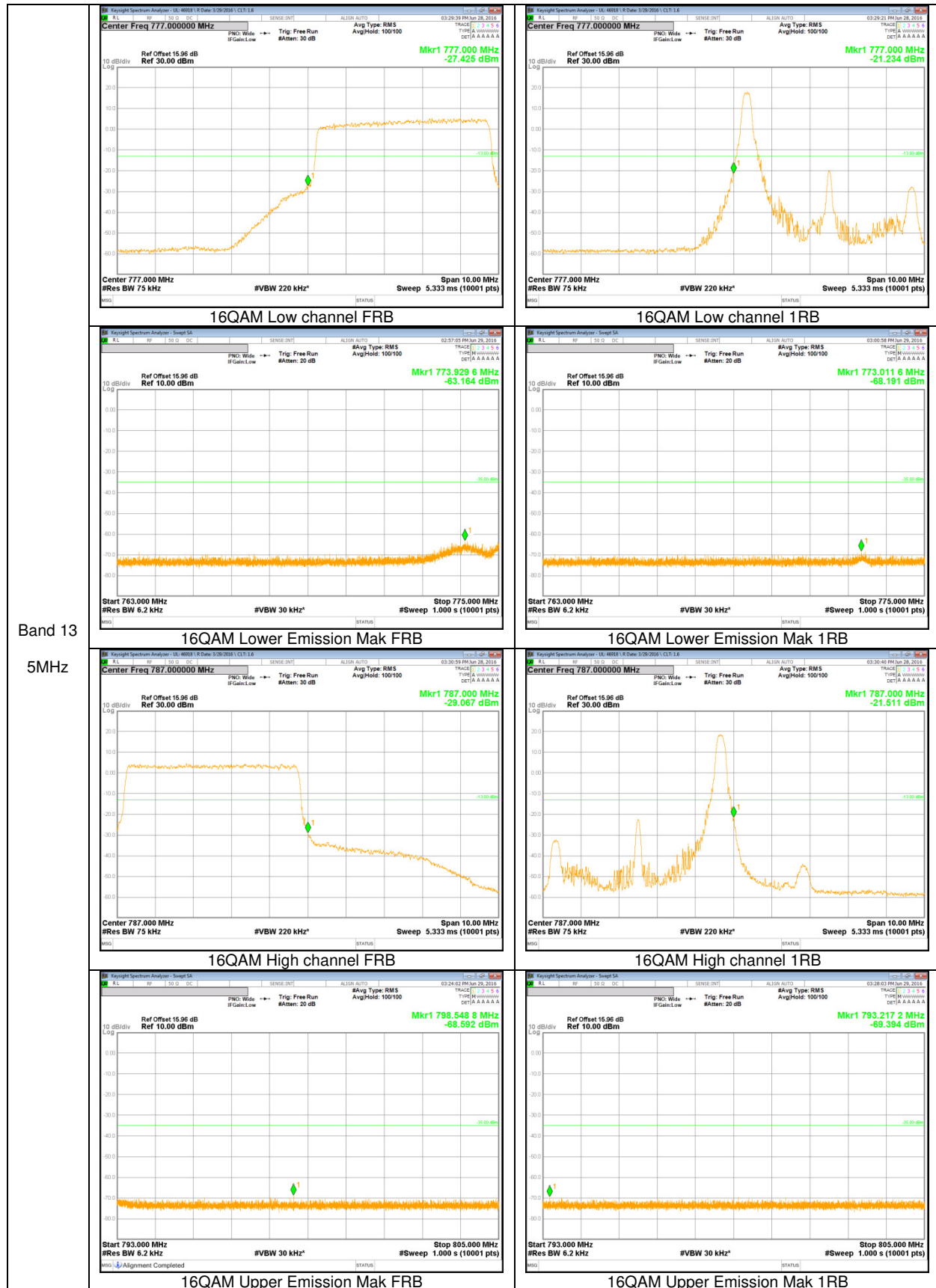
LTE Band 13 BAND EDGE







Band 13
 5MHz



8. RADIATED TEST RESULTS

8.1. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27.53

LIMIT

Part 22.917(a) & Part 24.238(a) 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.

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.

Part 27.53(h) *AWS emission limits*—(1) *General protection levels*. 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 $43 + 10 \log_{10} (P)$ dB.

TEST PROCEDURE

KDB 971168 D01 v02r02 - Section 5.8

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RESULTS

8.1.1. SPURIOUS RADIATION PLOTS

GSM1900

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------|------------------|--|---|---------------|-------------|------------|-------------|------------|-------|--|--|--|
| | | Date: | 06-03-16 | | | | | | | | | |
| | | Test Engineer: | YH Lim | | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Earphone, Z Position | | | | | | | | | |
| | | Mode: | GSM 1900 | | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | Part 24 | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | |
| Low Ch, 1850.2MHz | | | | | | | | | | | | |
| 3.7004 | -13.1 | V | 3.0 | 40.5 | 1.0 | -52.6 | -13.0 | -39.6 | | | | |
| 5.5506 | -12.4 | V | 3.0 | 40.8 | 1.0 | -52.3 | -13.0 | -39.3 | | | | |
| 7.4008 | -10.8 | V | 3.0 | 40.8 | 1.0 | -50.6 | -13.0 | -37.6 | | | | |
| 3.7000 | -8.9 | H | 3.0 | 40.5 | 1.0 | -48.4 | -13.0 | -35.4 | | | | |
| 5.5506 | -12.6 | H | 3.0 | 40.8 | 1.0 | -52.4 | -13.0 | -39.4 | | | | |
| 7.4008 | -10.4 | H | 3.0 | 40.8 | 1.0 | -50.2 | -13.0 | -37.2 | | | | |
| Mid Ch, 1880.0MHz | | | | | | | | | | | | |
| 3.7600 | -10.8 | V | 3.0 | 40.5 | 1.0 | -50.3 | -13.0 | -37.3 | | | | |
| 5.6400 | -12.8 | V | 3.0 | 40.8 | 1.0 | -52.6 | -13.0 | -39.6 | | | | |
| 7.5200 | -10.2 | V | 3.0 | 40.7 | 1.0 | -49.9 | -13.0 | -36.9 | | | | |
| 3.7600 | -5.6 | H | 3.0 | 40.5 | 1.0 | -45.1 | -13.0 | -32.1 | | | | |
| 5.6400 | -12.7 | H | 3.0 | 40.8 | 1.0 | -52.5 | -13.0 | -39.5 | | | | |
| 7.5200 | -10.0 | H | 3.0 | 40.7 | 1.0 | -49.7 | -13.0 | -36.7 | | | | |
| High Ch, 1909.8 MHz | | | | | | | | | | | | |
| 3.8196 | -11.5 | V | 3.0 | 40.6 | 1.0 | -51.1 | -13.0 | -38.1 | | | | |
| 5.7294 | -12.6 | V | 3.0 | 40.8 | 1.0 | -52.4 | -13.0 | -39.4 | | | | |
| 7.6392 | -10.1 | V | 3.0 | 40.7 | 1.0 | -49.8 | -13.0 | -36.8 | | | | |
| 3.8196 | -8.4 | H | 3.0 | 40.6 | 1.0 | -48.0 | -13.0 | -35.0 | | | | |
| 5.7294 | -12.4 | H | 3.0 | 40.8 | 1.0 | -52.2 | -13.0 | -39.2 | | | | |
| 7.6392 | -9.9 | H | 3.0 | 40.7 | 1.0 | -49.6 | -13.0 | -36.6 | | | | |
| | | Rev. 03.03.09 | | | | | | | | | | |
| | | Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

GSM850

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|-------------------|------------------|--|---|---------------|-------------|------------|-------------|------------|-------|--|--|--|
| | | Date: | 06-03-16 | | | | | | | | | |
| | | Test Engineer: | YH Lim | | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Earphone, Z Position | | | | | | | | | |
| | | Mode: | GSM 850 | | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | Part 22 | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | |
| Low Ch, 824.2MHz | | | | | | | | | | | | |
| 1.6484 | -13.6 | V | 3.0 | 39.1 | 1.0 | -51.7 | -13.0 | -38.7 | | | | |
| 2.4726 | -19.6 | V | 3.0 | 39.5 | 1.0 | -58.1 | -13.0 | -45.1 | | | | |
| 3.2968 | -18.3 | V | 3.0 | 40.1 | 1.0 | -57.4 | -13.0 | -44.4 | | | | |
| 1.6484 | -7.1 | H | 3.0 | 39.1 | 1.0 | -45.2 | -13.0 | -32.2 | | | | |
| 2.4726 | -18.1 | H | 3.0 | 39.5 | 1.0 | -56.7 | -13.0 | -43.7 | | | | |
| 3.2968 | -17.7 | H | 3.0 | 40.1 | 1.0 | -56.8 | -13.0 | -43.8 | | | | |
| Mid Ch, 836.6MHz | | | | | | | | | | | | |
| 1.6730 | -15.2 | V | 3.0 | 39.1 | 1.0 | -53.3 | -13.0 | -40.3 | | | | |
| 2.5098 | -18.7 | V | 3.0 | 39.5 | 1.0 | -57.3 | -13.0 | -44.3 | | | | |
| 3.3464 | -17.5 | V | 3.0 | 40.1 | 1.0 | -56.6 | -13.0 | -43.6 | | | | |
| 1.6730 | -10.1 | H | 3.0 | 39.1 | 1.0 | -48.2 | -13.0 | -35.2 | | | | |
| 2.5098 | -19.1 | H | 3.0 | 39.5 | 1.0 | -57.7 | -13.0 | -44.7 | | | | |
| 3.3464 | -17.6 | H | 3.0 | 40.1 | 1.0 | -56.8 | -13.0 | -43.8 | | | | |
| High Ch, 848.8MHz | | | | | | | | | | | | |
| 1.6976 | -8.6 | V | 3.0 | 39.1 | 1.0 | -46.8 | -13.0 | -33.8 | | | | |
| 2.5466 | -18.9 | V | 3.0 | 39.6 | 1.0 | -57.5 | -13.0 | -44.5 | | | | |
| 3.3952 | -16.9 | V | 3.0 | 40.2 | 1.0 | -56.1 | -13.0 | -43.1 | | | | |
| 1.6976 | -10.0 | H | 3.0 | 39.1 | 1.0 | -48.2 | -13.0 | -35.2 | | | | |
| 2.5466 | -19.0 | H | 3.0 | 39.6 | 1.0 | -57.6 | -13.0 | -44.6 | | | | |
| 3.3952 | -17.2 | H | 3.0 | 40.2 | 1.0 | -56.4 | -13.0 | -43.4 | | | | |
| | | Rev. 03.03.09 | | | | | | | | | | |
| | | Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

WCDMA Band 5

| f GHz | | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---|--|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| | | | | | | | | | | |
| Date: 06-03-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone / Z Position Mode: Tx, HSUPA,1900MHz | | | | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | Part 24 | | | | |
| Low Ch. 1852.4MHz | | | | | | | | | | |
| 3.7048 | | -15.3 | V | 3.0 | 40.5 | 1.0 | -54.8 | -13.0 | -41.8 | |
| 5.572 | | -10.7 | V | 3.0 | 40.8 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 7.4096 | | -9.9 | V | 3.0 | 40.8 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 3.7048 | | -14.6 | H | 3.0 | 40.5 | 1.0 | -54.1 | -13.0 | -41.1 | |
| 5.572 | | -10.4 | H | 3.0 | 40.8 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 7.4096 | | -9.7 | H | 3.0 | 40.8 | 1.0 | -49.5 | -13.0 | -36.5 | |
| Mid Ch. 1880MHz | | | | | | | | | | |
| 3.7600 | | -14.7 | V | 3.0 | 40.5 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 5.6400 | | -11.8 | V | 3.0 | 40.8 | 1.0 | -51.6 | -13.0 | -38.6 | |
| 7.5200 | | -9.4 | V | 3.0 | 40.7 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3.7600 | | -12.2 | H | 3.0 | 40.5 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 5.6400 | | -10.2 | H | 3.0 | 40.8 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 7.5200 | | -9.2 | H | 3.0 | 40.7 | 1.0 | -49.0 | -13.0 | -36.0 | |
| High Ch. 1907.6MHz | | | | | | | | | | |
| 3.8152 | | -13.9 | V | 3.0 | 40.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 5.7228 | | -9.8 | V | 3.0 | 40.8 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 7.6304 | | -9.2 | V | 3.0 | 40.7 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 3.8152 | | -11.7 | H | 3.0 | 40.6 | 1.0 | -51.3 | -13.0 | -38.3 | |
| 5.7228 | | -10.7 | H | 3.0 | 40.8 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 7.6304 | | -8.9 | H | 3.0 | 40.7 | 1.0 | -48.6 | -13.0 | -35.6 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

WCDMA Band 4

| f GHz | | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---|--|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| | | | | | | | | | | |
| UL Korea, Ltd Suwon Laboratory Date: 06-07-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Earphone / Z Position Mode: Tx, HSUPA,1700MHz | | | | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | Part 27 | | | | |
| Low Ch. 1712.4MHz | | | | | | | | | | |
| 3.4248 | | -14.4 | V | 3.0 | 40.2 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5.1372 | | -11.9 | V | 3.0 | 40.9 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 6.8496 | | -10.3 | V | 3.0 | 41.0 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 3.4248 | | -14.5 | H | 3.0 | 40.2 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5.1372 | | -10.9 | H | 3.0 | 40.9 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 6.8496 | | -10.3 | H | 3.0 | 41.0 | 1.0 | -50.3 | -13.0 | -37.3 | |
| Mid Ch. 1732.6MHz | | | | | | | | | | |
| 3.4652 | | -14.5 | V | 3.0 | 40.3 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5.1978 | | -12.7 | V | 3.0 | 40.9 | 1.0 | -52.6 | -13.0 | -39.6 | |
| 6.9304 | | -9.6 | V | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 3.4652 | | -15.2 | H | 3.0 | 40.3 | 1.0 | -54.4 | -13.0 | -41.4 | |
| 5.1978 | | -10.8 | H | 3.0 | 40.9 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 6.9304 | | -10.3 | H | 3.0 | 41.0 | 1.0 | -50.3 | -13.0 | -37.3 | |
| High Ch. 1752.6MHz | | | | | | | | | | |
| 3.5052 | | -14.5 | V | 3.0 | 40.3 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5.2578 | | -12.5 | V | 3.0 | 40.9 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 7.0104 | | -10.8 | V | 3.0 | 41.0 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 3.5052 | | -14.4 | H | 3.0 | 40.3 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5.2578 | | -10.3 | H | 3.0 | 40.9 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 7.0104 | | -10.5 | H | 3.0 | 41.0 | 1.0 | -50.6 | -13.0 | -37.6 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

WCDMA Band 5

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--------------------------|------------------|--|-----------------------|---|------------------------|--------------------|-------------|----------------------|-------|------------------|--|
| | | Date: 06-03-16 | Test Engineer: YH Lim | Configuration: EUT / AC Adapter / Earphone / Z Position | Mode: Tx, HSUPA,850MHz | Chamber: Chamber 2 | | Pre-amplifier: AFS42 | | Filter: Filter 1 | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| Low Ch, 826.40MHz | | | | | | | | | | | |
| 1.6520 | -19.8 | V | 3.0 | 39.1 | 1.0 | -57.9 | -13.0 | -44.9 | | | |
| 2.4790 | -18.1 | V | 3.0 | 39.5 | 1.0 | -56.6 | -13.0 | -43.6 | | | |
| 3.3056 | -16.2 | V | 3.0 | 40.1 | 1.0 | -55.3 | -13.0 | -42.3 | | | |
| 1.6520 | -20.7 | H | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 | | | |
| 2.4790 | -18.6 | H | 3.0 | 39.5 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| 3.3056 | -17.2 | H | 3.0 | 40.1 | 1.0 | -56.3 | -13.0 | -43.3 | | | |
| Mid Ch, 836.6MHz | | | | | | | | | | | |
| 1.6732 | -17.4 | V | 3.0 | 39.1 | 1.0 | -55.5 | -13.0 | -42.5 | | | |
| 2.5098 | -17.9 | V | 3.0 | 39.5 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| 3.3464 | -16.1 | V | 3.0 | 40.1 | 1.0 | -55.2 | -13.0 | -42.2 | | | |
| 1.6732 | -18.8 | H | 3.0 | 39.1 | 1.0 | -56.9 | -13.0 | -43.9 | | | |
| 2.5098 | -18.4 | H | 3.0 | 39.5 | 1.0 | -56.9 | -13.0 | -43.9 | | | |
| 3.3464 | -16.4 | H | 3.0 | 40.1 | 1.0 | -55.5 | -13.0 | -42.5 | | | |
| High Ch, 846.6MHz | | | | | | | | | | | |
| 1.6932 | -17.2 | V | 3.0 | 39.1 | 1.0 | -55.4 | -13.0 | -42.4 | | | |
| 2.5390 | -18.0 | V | 3.0 | 39.6 | 1.0 | -56.5 | -13.0 | -43.5 | | | |
| 3.3860 | -15.8 | V | 3.0 | 40.2 | 1.0 | -55.0 | -13.0 | -42.0 | | | |
| 1.6932 | -16.8 | H | 3.0 | 39.1 | 1.0 | -55.0 | -13.0 | -42.0 | | | |
| 2.5390 | -18.4 | H | 3.0 | 39.6 | 1.0 | -56.9 | -13.0 | -43.9 | | | |
| 3.3860 | -16.2 | H | 3.0 | 40.2 | 1.0 | -55.4 | -13.0 | -42.4 | | | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

LTE Band 5

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------------------|-------------------------|--|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|--|
| | | Date: 05-31-16 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 5, 1.4MHz BW,QPSK | | | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | Part 22 | | | | |
| LTE Band 5 1.4MHz QPSK | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (824.7MHz) | | | | | | | | | | | |
| | | 1.6494 | -14.5 | V | 3.0 | 39.1 | 1.0 | -52.6 | -13.0 | -39.6 | | |
| | | 2.4741 | -16.5 | V | 3.0 | 39.5 | 1.0 | -55.1 | -13.0 | -42.1 | | |
| | | 3.2988 | -16.7 | V | 3.0 | 40.1 | 1.0 | -55.8 | -13.0 | -42.8 | | |
| | | 1.6494 | -13.2 | H | 3.0 | 39.1 | 1.0 | -51.3 | -13.0 | -38.3 | | |
| | | 2.4741 | -15.3 | H | 3.0 | 39.5 | 1.0 | -53.8 | -13.0 | -40.8 | | |
| | | 3.2988 | -16.1 | H | 3.0 | 40.1 | 1.0 | -55.2 | -13.0 | -42.2 | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | | |
| | | 1.6730 | -11.2 | V | 3.0 | 39.1 | 1.0 | -49.3 | -13.0 | -36.3 | | |
| | | 2.5090 | -18.9 | V | 3.0 | 39.5 | 1.0 | -57.4 | -13.0 | -44.4 | | |
| | | 3.3460 | -16.4 | V | 3.0 | 40.1 | 1.0 | -55.5 | -13.0 | -42.5 | | |
| | | 1.6730 | -11.7 | H | 3.0 | 39.1 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| | | 2.5090 | -19.0 | H | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | |
| | | 3.3460 | -16.9 | H | 3.0 | 40.1 | 1.0 | -56.0 | -13.0 | -43.0 | | |
| | High Channel (848.3MHz) | | | | | | | | | | | |
| | | 1.6966 | -13.4 | V | 3.0 | 39.1 | 1.0 | -51.6 | -13.0 | -38.6 | | |
| | | 2.5449 | -15.7 | V | 3.0 | 39.6 | 1.0 | -54.3 | -13.0 | -41.3 | | |
| | | 3.3932 | -14.8 | V | 3.0 | 40.2 | 1.0 | -54.0 | -13.0 | -41.0 | | |
| | | 1.6966 | -14.0 | H | 3.0 | 39.1 | 1.0 | -52.1 | -13.0 | -39.1 | | |
| | | 2.5449 | -15.6 | H | 3.0 | 39.6 | 1.0 | -54.1 | -13.0 | -41.1 | | |
| | | 3.3932 | -14.8 | H | 3.0 | 40.2 | 1.0 | -54.0 | -13.0 | -41.0 | | |
| | | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--------------------------------|------------------------|---|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|--|
| | | Date: 06-02-16 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 5, 10MHz BW,QPSK | | | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | Part 22 | | | | |
| LTE Band 5 10MHz QPSK | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (829MHz) | | | | | | | | | | | |
| | | 1.6580 | -14.6 | V | 3.0 | 39.1 | 1.0 | -52.7 | -13.0 | -39.7 | | |
| | | 2.4870 | -17.3 | V | 3.0 | 39.5 | 1.0 | -55.8 | -13.0 | -42.8 | | |
| | | 3.3160 | -15.7 | V | 3.0 | 40.1 | 1.0 | -54.8 | -13.0 | -41.8 | | |
| | | 1.6580 | -13.3 | H | 3.0 | 39.1 | 1.0 | -51.4 | -13.0 | -38.4 | | |
| | | 2.4870 | -15.5 | H | 3.0 | 39.5 | 1.0 | -54.0 | -13.0 | -41.0 | | |
| | | 3.3160 | -16.0 | H | 3.0 | 40.1 | 1.0 | -55.1 | -13.0 | -42.1 | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | | |
| | | 1.6730 | -11.3 | V | 3.0 | 39.1 | 1.0 | -49.4 | -13.0 | -36.4 | | |
| | | 2.5090 | -18.8 | V | 3.0 | 39.5 | 1.0 | -57.3 | -13.0 | -44.3 | | |
| | | 3.3460 | -15.5 | V | 3.0 | 40.1 | 1.0 | -54.6 | -13.0 | -41.6 | | |
| | | 1.6730 | -10.1 | H | 3.0 | 39.1 | 1.0 | -48.2 | -13.0 | -35.2 | | |
| | | 2.5090 | -18.7 | H | 3.0 | 39.5 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| | | 3.3460 | -15.3 | H | 3.0 | 40.1 | 1.0 | -54.5 | -13.0 | -41.5 | | |
| | High Channel (844MHz) | | | | | | | | | | | |
| | | 1.6880 | -11.1 | V | 3.0 | 39.1 | 1.0 | -49.2 | -13.0 | -36.2 | | |
| | | 2.5320 | -16.0 | V | 3.0 | 39.5 | 1.0 | -54.5 | -13.0 | -41.5 | | |
| | | 3.3760 | -16.2 | V | 3.0 | 40.2 | 1.0 | -55.4 | -13.0 | -42.4 | | |
| | | 1.6880 | -11.2 | H | 3.0 | 39.1 | 1.0 | -49.3 | -13.0 | -36.3 | | |
| | | 2.5320 | -14.6 | H | 3.0 | 39.5 | 1.0 | -53.1 | -13.0 | -40.1 | | |
| | | 3.3760 | -15.8 | H | 3.0 | 40.2 | 1.0 | -55.0 | -13.0 | -42.0 | | |
| | | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE Band 2

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|-------------|-------------|------------|-------|
| Date: | | 05-27-16 | | | | | | | |
| Test Engineer: | | JH Park | | | | | | | |
| Configuration: | | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | |
| Mode: | | TX, LTE BAND 2, 15MHz BW, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 24 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Channel (1857.5MHz) | | | | | | | | | |
| 3.7150 | -17.5 | V | 3.0 | 40.5 | 1.0 | -57.0 | -13.0 | -44.0 | |
| 5.7225 | -13.2 | V | 3.0 | 40.8 | 1.0 | -53.1 | -13.0 | -40.1 | |
| 7.4300 | -12.6 | V | 3.0 | 40.8 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 3.7150 | -15.1 | H | 3.0 | 40.5 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 5.7225 | -8.4 | H | 3.0 | 40.8 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 7.4300 | -12.5 | H | 3.0 | 40.8 | 1.0 | -52.3 | -13.0 | -39.3 | |
| Mid Channel (1880MHz) | | | | | | | | | |
| 3.7600 | -13.3 | V | 3.0 | 40.5 | 1.0 | -52.8 | -13.0 | -39.8 | |
| 5.6400 | -13.8 | V | 3.0 | 40.8 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 7.5200 | -12.1 | V | 3.0 | 40.7 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 3.7600 | -8.9 | H | 3.0 | 40.5 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 5.6400 | -11.4 | H | 3.0 | 40.8 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 7.5200 | -11.9 | H | 3.0 | 40.7 | 1.0 | -51.6 | -13.0 | -38.6 | |
| High Channel (1902.5MHz) | | | | | | | | | |
| 3.8050 | -11.0 | V | 3.0 | 40.6 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 5.7075 | -14.4 | V | 3.0 | 40.8 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 7.6100 | -12.0 | V | 3.0 | 40.7 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 3.8050 | -6.8 | H | 3.0 | 40.6 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 5.7075 | -10.3 | H | 3.0 | 40.8 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 7.6100 | -11.4 | H | 3.0 | 40.7 | 1.0 | -51.1 | -13.0 | -38.1 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE
 Band 2
 15MHz
 QPSK

LTE Band 25

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---------------------------------|--|---|---|-----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|
| | | Date: | 05-31-16 | | | | | | | | |
| LTE Band 25 20MHz QPSK | | Test Engineer: | JH Park | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | |
| | | Mode: | TX, LTE BAND 25, 20MHz BW, QPSK | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| | | Chamber 2 | | AF S42 | | Filter 1 | | FCC Part 24 | | | |
| | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1860MHz) | | | | | | | | | |
| | | 3.7200 | -9.8 | V | 3.0 | 40.5 | 1.0 | -49.3 | -13.0 | -36.3 | |
| | | 5.5800 | -13.6 | V | 3.0 | 40.8 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | | 7.4400 | -13.9 | V | 3.0 | 40.8 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | | 3.7200 | -4.7 | H | 3.0 | 40.5 | 1.0 | -44.2 | -13.0 | -31.2 | |
| | | 5.5800 | -8.5 | H | 3.0 | 40.8 | 1.0 | -48.3 | -13.0 | -35.3 | |
| | | 7.4400 | -23.0 | H | 3.0 | 40.8 | 1.0 | -62.8 | -13.0 | -49.8 | |
| | | Mid Channel (1882.5MHz) | | | | | | | | | |
| | | 3.7650 | -10.2 | V | 3.0 | 40.5 | 1.0 | -49.8 | -13.0 | -36.8 | |
| | | 5.6475 | -12.1 | V | 3.0 | 40.8 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | | 7.5300 | -13.3 | V | 3.0 | 40.7 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | 3.7650 | -4.3 | H | 3.0 | 40.5 | 1.0 | -43.9 | -13.0 | -30.9 | |
| | | 5.6475 | -9.1 | H | 3.0 | 40.8 | 1.0 | -48.9 | -13.0 | -35.9 | |
| | | 7.5300 | -12.7 | H | 3.0 | 40.7 | 1.0 | -52.4 | -13.0 | -39.4 | |
| | | High Channel (1905MHz) | | | | | | | | | |
| | | 3.8100 | -5.8 | V | 3.0 | 40.6 | 1.0 | -45.3 | -13.0 | -32.3 | |
| | | 5.7150 | -13.2 | V | 3.0 | 40.8 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | 7.6200 | -13.2 | V | 3.0 | 40.7 | 1.0 | -52.9 | -13.0 | -39.9 | |
| | | 3.8100 | 0.7 | H | 3.0 | 40.6 | 1.0 | -38.9 | -13.0 | -25.9 | |
| | | 5.7150 | -5.7 | H | 3.0 | 40.8 | 1.0 | -45.4 | -13.0 | -32.4 | |
| | | 7.6200 | -13.3 | H | 3.0 | 40.7 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|----------------------------------|--|---|---|-----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|
| | | Date: | 05-31-16 | | | | | | | | |
| LTE Band 25 20MHz 16QAM | | Test Engineer: | JH Park | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | |
| | | Mode: | TX, LTE BAND 25, 20MHz BW, 16QAM | | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| | | Chamber 2 | | AF S42 | | Filter 1 | | FCC Part 24 | | | |
| | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1860MHz) | | | | | | | | | |
| | | 3.7200 | -9.8 | V | 3.0 | 40.5 | 1.0 | -49.3 | -13.0 | -36.3 | |
| | | 5.5800 | -14.9 | V | 3.0 | 40.8 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | | 7.4400 | -13.8 | V | 3.0 | 40.8 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | | 3.7200 | -3.7 | H | 3.0 | 40.5 | 1.0 | -43.2 | -13.0 | -30.2 | |
| | | 5.5800 | -7.3 | H | 3.0 | 40.8 | 1.0 | -47.1 | -13.0 | -34.1 | |
| | | 7.4400 | -13.2 | H | 3.0 | 40.8 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | Mid Channel (1882.5MHz) | | | | | | | | | |
| | | 3.7650 | -10.8 | V | 3.0 | 40.5 | 1.0 | -50.3 | -13.0 | -37.3 | |
| | | 5.6475 | -13.8 | V | 3.0 | 40.8 | 1.0 | -53.6 | -13.0 | -40.6 | |
| | | 7.5300 | -13.3 | V | 3.0 | 40.7 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | 3.7650 | -3.0 | H | 3.0 | 40.5 | 1.0 | -42.5 | -13.0 | -29.5 | |
| | | 5.6475 | -7.2 | H | 3.0 | 40.8 | 1.0 | -47.1 | -13.0 | -34.1 | |
| | | 7.5300 | -13.1 | H | 3.0 | 40.7 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | | High Channel (1905MHz) | | | | | | | | | |
| | | 3.8100 | -6.4 | V | 3.0 | 40.6 | 1.0 | -46.0 | -13.0 | -33.0 | |
| | | 5.7150 | -11.4 | V | 3.0 | 40.8 | 1.0 | -51.2 | -13.0 | -38.2 | |
| | | 7.6200 | -13.2 | V | 3.0 | 40.7 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | | 3.8100 | -1.5 | H | 3.0 | 40.6 | 1.0 | -41.1 | -13.0 | -28.1 | |
| | | 5.7150 | -5.7 | H | 3.0 | 40.8 | 1.0 | -45.5 | -13.0 | -32.5 | |
| | | 7.6200 | -13.3 | H | 3.0 | 40.7 | 1.0 | -52.9 | -13.0 | -39.9 | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE Band 26

| LTE Band 26 5MHz QPSK | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--------------------------------|--------|---|---|-----------------|---------------|-------------|-------------|------------|-------------|------------|-------|---------|--|
| | | Date: | 06-02-16 | | | | | | | | | | |
| | | Test Engineer: | JH Park | | | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Earphone, Z Position | | | | | | | | | | |
| | | Mode: | TX, LTE BAND 26, 5MHz BW, QPSK | | | | | | | | | | |
| | | Chamber | Chamber 2 | | Pre-amplifier | AFS42 | | Filter | Filter 1 | | Limit | Part 22 | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| Low Channel (816.5MHz) | | | | | | | | | | | | | |
| | 1.6330 | -13.0 | V | 3.0 | 39.1 | 1.0 | -51.1 | -13.0 | -38.1 | | | | |
| | 2.4495 | -17.3 | V | 3.0 | 39.5 | 1.0 | -55.8 | -13.0 | -42.8 | | | | |
| | 3.2660 | -15.0 | V | 3.0 | 40.1 | 1.0 | -54.1 | -13.0 | -41.1 | | | | |
| | 1.6330 | -9.7 | H | 3.0 | 39.1 | 1.0 | -47.8 | -13.0 | -34.8 | | | | |
| | 2.4495 | -15.5 | H | 3.0 | 39.5 | 1.0 | -54.0 | -13.0 | -41.0 | | | | |
| | 3.2660 | -15.1 | H | 3.0 | 40.1 | 1.0 | -54.2 | -13.0 | -41.2 | | | | |
| Mid Channel (831.5MHz) | | | | | | | | | | | | | |
| | 1.6630 | -10.2 | V | 3.0 | 39.1 | 1.0 | -48.4 | -13.0 | -35.4 | | | | |
| | 2.4945 | -16.0 | V | 3.0 | 39.5 | 1.0 | -54.6 | -13.0 | -41.6 | | | | |
| | 3.3260 | -15.1 | V | 3.0 | 40.1 | 1.0 | -54.2 | -13.0 | -41.2 | | | | |
| | 1.6630 | -10.4 | H | 3.0 | 39.1 | 1.0 | -48.5 | -13.0 | -35.5 | | | | |
| | 2.4945 | -17.2 | H | 3.0 | 39.5 | 1.0 | -55.7 | -13.0 | -42.7 | | | | |
| | 3.3260 | -16.0 | H | 3.0 | 40.1 | 1.0 | -55.1 | -13.0 | -42.1 | | | | |
| High Channel (846.5MHz) | | | | | | | | | | | | | |
| | 1.6930 | -12.1 | V | 3.0 | 39.1 | 1.0 | -50.2 | -13.0 | -37.2 | | | | |
| | 2.5390 | -16.7 | V | 3.0 | 39.6 | 1.0 | -55.2 | -13.0 | -42.2 | | | | |
| | 3.3860 | -14.9 | V | 3.0 | 40.2 | 1.0 | -54.0 | -13.0 | -41.0 | | | | |
| | 1.6930 | -10.2 | H | 3.0 | 39.1 | 1.0 | -48.4 | -13.0 | -35.4 | | | | |
| | 2.5390 | -17.3 | H | 3.0 | 39.6 | 1.0 | -55.8 | -13.0 | -42.8 | | | | |
| | 3.3860 | -15.4 | H | 3.0 | 40.2 | 1.0 | -54.6 | -13.0 | -41.6 | | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| LTE Band 26 15MHz QPSK | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|---------------------------------|--------|---|---|-----------------|---------------|-------------|-------------|-----------|-------------|------------|-------|-------------|--|
| | | Date: | 07-01-16 | | | | | | | | | | |
| | | Test Engineer: | YH Lim | | | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Earphone, Z Position | | | | | | | | | | |
| | | Mode: | TX, LTE BAND 26, 15MHz BW, QPSK | | | | | | | | | | |
| | | Chamber | Chamber 2 | | Pre-amplifier | AFS42 | | Filter | Filter 1 | | Limit | FCC Part 22 | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| Low Channel (821.5MHz) | | | | | | | | | | | | | |
| | 1.6430 | -28.3 | V | 3.0 | 39.1 | 1.0 | -66.4 | -13.0 | -53.4 | | | | |
| | 2.4645 | -17.8 | V | 3.0 | 39.5 | 1.0 | -56.3 | -13.0 | -43.3 | | | | |
| | 3.2860 | -27.6 | V | 3.0 | 40.1 | 1.0 | -66.7 | -13.0 | -53.7 | | | | |
| | 1.6430 | -25.2 | H | 3.0 | 39.1 | 1.0 | -63.3 | -13.0 | -50.3 | | | | |
| | 2.4645 | -19.3 | H | 3.0 | 39.5 | 1.0 | -57.8 | -13.0 | -44.8 | | | | |
| | 3.2860 | -28.0 | H | 3.0 | 40.1 | 1.0 | -67.1 | -13.0 | -54.1 | | | | |
| Mid Channel (831.5MHz) | | | | | | | | | | | | | |
| | 1.6630 | -26.4 | V | 3.0 | 39.1 | 1.0 | -64.6 | -13.0 | -51.6 | | | | |
| | 2.4945 | -15.1 | V | 3.0 | 39.5 | 1.0 | -53.6 | -13.0 | -40.6 | | | | |
| | 3.3260 | -27.5 | V | 3.0 | 40.1 | 1.0 | -66.6 | -13.0 | -53.6 | | | | |
| | 1.6630 | -22.5 | H | 3.0 | 39.1 | 1.0 | -60.6 | -13.0 | -47.6 | | | | |
| | 2.4945 | -17.0 | H | 3.0 | 39.5 | 1.0 | -55.6 | -13.0 | -42.6 | | | | |
| | 3.3260 | -28.0 | H | 3.0 | 40.1 | 1.0 | -67.1 | -13.0 | -54.1 | | | | |
| High Channel (841.5MHz) | | | | | | | | | | | | | |
| | 1.6830 | -29.0 | V | 3.0 | 39.1 | 1.0 | -67.1 | -13.0 | -54.1 | | | | |
| | 2.5245 | -15.2 | V | 3.0 | 39.5 | 1.0 | -53.7 | -13.0 | -40.7 | | | | |
| | 3.3660 | -27.8 | V | 3.0 | 40.2 | 1.0 | -67.0 | -13.0 | -54.0 | | | | |
| | 1.6830 | -17.5 | H | 3.0 | 39.1 | 1.0 | -55.7 | -13.0 | -42.7 | | | | |
| | 2.5245 | -13.3 | H | 3.0 | 39.5 | 1.0 | -51.9 | -13.0 | -38.9 | | | | |
| | 3.3660 | -28.1 | H | 3.0 | 40.2 | 1.0 | -67.2 | -13.0 | -54.2 | | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

LTE Band 17

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|---|--------------|---------------|-------------|--------------|-------------|------------|-------|
| Date: | | 06-01-16 | | | | | | | |
| Test Engineer: | | JH Park | | | | | | | |
| Configuration: | | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | |
| Mode: | | TX, LTE BAND 17, 10MHz BW, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Channel (709MHz) | | | | | | | | | |
| 1.4180 | -18.4 | V | 3.0 | 39.0 | 1.0 | -56.4 | -13.0 | -43.4 | |
| 2.1270 | -11.9 | V | 3.0 | 39.3 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 2.8360 | -17.3 | V | 3.0 | 39.7 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 1.4180 | -21.0 | H | 3.0 | 39.0 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 2.1270 | -8.9 | H | 3.0 | 39.3 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 2.8360 | -16.5 | H | 3.0 | 39.7 | 1.0 | -55.2 | -13.0 | -42.2 | |
| Mid Channel (710MHz) | | | | | | | | | |
| 1.4200 | -20.4 | V | 3.0 | 39.0 | 1.0 | -58.4 | -13.0 | -45.4 | |
| 2.1300 | -10.9 | V | 3.0 | 39.3 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 2.8400 | -16.7 | V | 3.0 | 39.7 | 1.0 | -55.4 | -13.0 | -42.4 | |
| 1.4200 | -21.1 | H | 3.0 | 39.0 | 1.0 | -59.1 | -13.0 | -46.1 | |
| 2.1300 | -7.5 | H | 3.0 | 39.3 | 1.0 | -45.8 | -13.0 | -32.8 | |
| 2.8400 | -16.0 | H | 3.0 | 39.7 | 1.0 | -54.8 | -13.0 | -41.8 | |
| High Channel (711MHz) | | | | | | | | | |
| 1.4220 | -20.5 | V | 3.0 | 39.0 | 1.0 | -58.5 | -13.0 | -45.5 | |
| 2.1330 | -10.7 | V | 3.0 | 39.3 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 2.8440 | -17.1 | V | 3.0 | 39.7 | 1.0 | -55.8 | -13.0 | -42.8 | |
| 1.4220 | -20.3 | H | 3.0 | 39.0 | 1.0 | -58.3 | -13.0 | -45.3 | |
| 2.1330 | -6.8 | H | 3.0 | 39.3 | 1.0 | -45.1 | -13.0 | -32.1 | |
| 2.8440 | -15.9 | H | 3.0 | 39.7 | 1.0 | -54.6 | -13.0 | -41.6 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE
 Band 2
 15MHz
 QPSK

LTE Band 4

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------------------|------------------|--|--|-------------|---------------|-----------|--------------|------------|-------|--|--|--|
| | | Date: | 05-27-16 | | | | | | | | | |
| | | Test Engineer: | JH Park | | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | |
| | | Mode: | TX, LTE BAND 4, 15MHz BW,QPSK | | | | | | | | | |
| | | Chamber | Pre-amplifier | | Filter | | Limit | | | | | |
| | | Chamber 2 | AFS42 | | Filter 1 | | FCC Part 27 | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | |
| Low Channel (1717.5MHz) | | | | | | | | | | | | |
| 3.4350 | 0.4 | V | 3.0 | 40.2 | 1.0 | -38.9 | -13.0 | -25.9 | | | | |
| 5.1525 | -11.2 | V | 3.0 | 40.9 | 1.0 | -51.1 | -13.0 | -38.1 | | | | |
| 6.8700 | -12.8 | V | 3.0 | 41.0 | 1.0 | -52.5 | -13.0 | -39.6 | | | | |
| 3.4350 | -3.0 | H | 3.0 | 40.2 | 1.0 | -42.3 | -13.0 | -29.3 | | | | |
| 5.1525 | -4.9 | H | 3.0 | 40.9 | 1.0 | -44.8 | -13.0 | -31.8 | | | | |
| 6.8700 | -12.3 | H | 3.0 | 41.0 | 1.0 | -52.2 | -13.0 | -39.2 | | | | |
| Mid Channel (1732.5MHz) | | | | | | | | | | | | |
| 3.4650 | -0.7 | V | 3.0 | 40.3 | 1.0 | -39.9 | -13.0 | -26.9 | | | | |
| 5.1975 | -10.3 | V | 3.0 | 40.9 | 1.0 | -50.2 | -13.0 | -37.2 | | | | |
| 6.9300 | -12.9 | V | 3.0 | 41.0 | 1.0 | -52.9 | -13.0 | -39.9 | | | | |
| 3.4650 | -3.2 | H | 3.0 | 40.3 | 1.0 | -42.5 | -13.0 | -29.5 | | | | |
| 5.1975 | -4.3 | H | 3.0 | 40.9 | 1.0 | -44.2 | -13.0 | -31.2 | | | | |
| 6.9300 | -13.0 | H | 3.0 | 41.0 | 1.0 | -53.0 | -13.0 | -40.0 | | | | |
| High Channel (1747.5MHz) | | | | | | | | | | | | |
| 3.4950 | -1.0 | V | 3.0 | 40.3 | 1.0 | -40.3 | -13.0 | -27.3 | | | | |
| 5.2425 | -9.1 | V | 3.0 | 40.9 | 1.0 | -48.9 | -13.0 | -35.9 | | | | |
| 6.9900 | -13.0 | V | 3.0 | 41.0 | 1.0 | -53.0 | -13.0 | -40.0 | | | | |
| 3.4950 | -1.3 | H | 3.0 | 40.3 | 1.0 | -40.6 | -13.0 | -27.6 | | | | |
| 5.2425 | -2.3 | H | 3.0 | 40.9 | 1.0 | -42.1 | -13.0 | -29.1 | | | | |
| 6.9900 | -13.1 | H | 3.0 | 41.0 | 1.0 | -53.1 | -13.0 | -40.1 | | | | |
| | | Rev. 03.03.09 | | | | | | | | | | |
| | | Note: | No other emissions were detected above the system noise floor. | | | | | | | | | |
| LTE Band 4 15MHz QPSK | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------------------|------------------|--|--|-------------|---------------|-----------|--------------|------------|-------|--|--|--|
| | | Date: | 05-31-16 | | | | | | | | | |
| | | Test Engineer: | JH Park | | | | | | | | | |
| | | Configuration: | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | |
| | | Mode: | TX, LTE BAND 4, 20MHz BW, QPSK | | | | | | | | | |
| | | Chamber | Pre-amplifier | | Filter | | Limit | | | | | |
| | | Chamber 2 | AFS42 | | Filter 1 | | FCC Part 27 | | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | |
| Low Channel (1720MHz) | | | | | | | | | | | | |
| 3.4400 | 1.6 | V | 3.0 | 40.2 | 1.0 | -37.6 | -13.0 | -24.6 | | | | |
| 5.1600 | -12.2 | V | 3.0 | 40.9 | 1.0 | -52.1 | -13.0 | -39.1 | | | | |
| 6.8800 | -13.9 | V | 3.0 | 41.0 | 1.0 | -53.9 | -13.0 | -40.9 | | | | |
| 3.4400 | 0.8 | H | 3.0 | 40.2 | 1.0 | -38.4 | -13.0 | -25.4 | | | | |
| 5.1600 | -3.0 | H | 3.0 | 40.9 | 1.0 | -42.9 | -13.0 | -29.9 | | | | |
| 6.8800 | -13.3 | H | 3.0 | 41.0 | 1.0 | -53.3 | -13.0 | -40.3 | | | | |
| Mid Channel (1732.5MHz) | | | | | | | | | | | | |
| 3.4650 | 0.6 | V | 3.0 | 40.3 | 1.0 | -38.6 | -13.0 | -25.6 | | | | |
| 5.1975 | -10.0 | V | 3.0 | 40.9 | 1.0 | -49.9 | -13.0 | -36.9 | | | | |
| 6.9300 | -13.6 | V | 3.0 | 41.0 | 1.0 | -53.6 | -13.0 | -40.6 | | | | |
| 3.4650 | 0.3 | H | 3.0 | 40.3 | 1.0 | -38.9 | -13.0 | -25.9 | | | | |
| 5.1975 | -3.6 | H | 3.0 | 40.9 | 1.0 | -43.5 | -13.0 | -30.5 | | | | |
| 6.9300 | -13.4 | H | 3.0 | 41.0 | 1.0 | -53.4 | -13.0 | -40.4 | | | | |
| High Channel (1745MHz) | | | | | | | | | | | | |
| 3.4900 | 0.5 | V | 3.0 | 40.3 | 1.0 | -38.8 | -13.0 | -25.8 | | | | |
| 5.2350 | -9.9 | V | 3.0 | 40.9 | 1.0 | -49.8 | -13.0 | -36.8 | | | | |
| 6.9800 | -14.1 | V | 3.0 | 41.0 | 1.0 | -54.1 | -13.0 | -41.1 | | | | |
| 3.4900 | -2.8 | H | 3.0 | 40.3 | 1.0 | -42.1 | -13.0 | -29.1 | | | | |
| 5.2350 | -1.4 | H | 3.0 | 40.9 | 1.0 | -41.3 | -13.0 | -28.3 | | | | |
| 6.9800 | -13.7 | H | 3.0 | 41.0 | 1.0 | -53.7 | -13.0 | -40.7 | | | | |
| | | Rev. 03.03.09 | | | | | | | | | | |
| | | Note: | No other emissions were detected above the system noise floor. | | | | | | | | | |
| LTE Band 26 20MHz QPSK | | | | | | | | | | | | |

LTE Band 7

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|-----------------|---|--------------|-------------|-------------|-------------|-------------|------------|-------|
| Date: | | 06-02-16 | | | | | | | |
| Test Engineer: | | JH Park | | | | | | | |
| Configuration: | | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | |
| Mode: | | TX, LTE BAND 7, 20MHz BW, QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | |
| f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch. (2510 MHz) | | | | | | | | | |
| 5.0200 | -10.1 | V | 3.0 | 40.9 | 1.0 | -50.1 | -25.0 | -25.1 | |
| 7.5300 | -10.8 | V | 3.0 | 40.7 | 1.0 | -50.6 | -25.0 | -25.6 | |
| 10.0400 | -9.7 | V | 3.0 | 39.7 | 1.0 | -48.4 | -25.0 | -23.4 | |
| 5.0200 | -9.2 | H | 3.0 | 40.9 | 1.0 | -49.1 | -25.0 | -24.1 | |
| 7.5300 | -7.7 | H | 3.0 | 40.7 | 1.0 | -47.5 | -25.0 | -22.5 | |
| 10.0400 | -13.8 | H | 3.0 | 39.7 | 1.0 | -52.4 | -25.0 | -27.4 | |
| Mid Ch. (2535 MHz) | | | | | | | | | |
| 5.0700 | -5.0 | V | 3.0 | 40.9 | 1.0 | -44.9 | -25.0 | -19.9 | |
| 7.6050 | -11.8 | V | 3.0 | 40.7 | 1.0 | -51.5 | -25.0 | -26.5 | |
| 10.1400 | -10.8 | V | 3.0 | 39.6 | 1.0 | -49.4 | -25.0 | -24.4 | |
| 5.0700 | 1.2 | H | 3.0 | 40.9 | 1.0 | -38.7 | -25.0 | -13.7 | |
| 7.6050 | -9.2 | H | 3.0 | 40.7 | 1.0 | -48.8 | -25.0 | -23.8 | |
| 10.1400 | -11.2 | H | 3.0 | 39.6 | 1.0 | -49.8 | -25.0 | -24.8 | |
| High Ch. (2560 MHz) | | | | | | | | | |
| 5.1200 | -5.5 | V | 3.0 | 40.9 | 1.0 | -45.4 | -25.0 | -20.4 | |
| 7.6800 | -9.8 | V | 3.0 | 40.6 | 1.0 | -49.4 | -25.0 | -24.4 | |
| 10.2400 | -9.9 | V | 3.0 | 39.5 | 1.0 | -48.4 | -25.0 | -23.4 | |
| 5.1200 | 0.5 | H | 3.0 | 40.9 | 1.0 | -39.4 | -25.0 | -14.4 | |
| 7.6800 | -6.3 | H | 3.0 | 40.6 | 1.0 | -45.9 | -25.0 | -20.9 | |
| 10.2400 | -6.2 | H | 3.0 | 39.5 | 1.0 | -44.7 | -25.0 | -19.7 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE
 Band 7
 20MHz
 QPSK

LTE Band 30

| LTE Band 30 5MHz QPSK | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|---|--|------------------|---|--------------|-------------|-------------|-----------|-------------|-------------|-------|--|--|
| | Date: | | 06-07-16 | | | | | | | | | |
| | Test Engineer: | | JH Park | | | | | | | | | |
| | Configuration: | | EUT / AC Adapter / Ear Phone / Z-Position | | | | | | | | | |
| | Mode: | | TX, LTE BAND 30, 5MHz BW, QPSK | | | | | | | | | |
| | Chamber | | Pre-amplifier | | | Filter | | | Limit | | | |
| | Chamber 2 | | AFS42 | | | Filter 1 | | | FCC Part 27 | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| | Low Ch, (2307.5 MHz) | | | | | | | | | | | |
| | 4.6150 | -11.9 | V | 3.0 | 40.9 | 1.0 | -51.8 | -40.0 | -11.8 | | | |
| 6.9225 | -8.2 | V | 3.0 | 41.0 | 1.0 | -48.2 | -40.0 | -8.2 | | | | |
| 9.2300 | -10.2 | V | 3.0 | 39.6 | 1.0 | -48.8 | -40.0 | -8.8 | | | | |
| 4.6150 | -10.0 | H | 3.0 | 40.9 | 1.0 | -49.8 | -40.0 | -9.8 | | | | |
| 6.9225 | -5.5 | H | 3.0 | 41.0 | 1.0 | -45.5 | -40.0 | -5.5 | | | | |
| 9.2300 | -10.2 | H | 3.0 | 39.6 | 1.0 | -48.9 | -40.0 | -8.9 | | | | |
| Mid Ch, (2310 MHz) | | | | | | | | | | | | |
| 4.6200 | -10.9 | V | 3.0 | 40.9 | 1.0 | -50.8 | -40.0 | -10.8 | | | | |
| 6.9300 | -5.5 | V | 3.0 | 41.0 | 1.0 | -45.5 | -40.0 | -5.5 | | | | |
| 9.2400 | -9.3 | V | 3.0 | 39.6 | 1.0 | -48.0 | -40.0 | -8.0 | | | | |
| 4.6200 | -11.3 | H | 3.0 | 40.9 | 1.0 | -51.2 | -40.0 | -11.2 | | | | |
| 6.9300 | -1.2 | H | 3.0 | 41.0 | 1.0 | -41.2 | -40.0 | -1.2 | | | | |
| 9.2400 | -10.5 | H | 3.0 | 39.6 | 1.0 | -49.2 | -40.0 | -9.2 | | | | |
| High Ch, (2312.5 MHz) | | | | | | | | | | | | |
| 4.6250 | -11.3 | V | 3.0 | 40.9 | 1.0 | -51.2 | -40.0 | -11.2 | | | | |
| 6.9375 | -1.5 | V | 3.0 | 41.0 | 1.0 | -41.5 | -40.0 | -1.5 | | | | |
| 9.2500 | -9.0 | V | 3.0 | 39.6 | 1.0 | -47.7 | -40.0 | -7.7 | | | | |
| 4.6250 | -10.6 | H | 3.0 | 40.9 | 1.0 | -50.5 | -40.0 | -10.5 | | | | |
| 6.9375 | -2.2 | H | 3.0 | 41.0 | 1.0 | -42.3 | -40.0 | -2.3 | | | | |
| 9.2500 | -11.0 | H | 3.0 | 39.6 | 1.0 | -49.7 | -40.0 | -9.7 | | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | |

LTE Band 41

UL Korea, Ltd Suwon Laboratory
 Above 1GHz High Frequency Substitution Measurement

Date: 06-02-16
 Test Engineer: JH Park
 Configuration: EUT / AC Adapter / Ear Phone / Z-Position
 Mode: TX, LTE BAND 41, 15MHz BW, QPSK

Chamber
Chamber 2

Pre-amplifier
AFS42

Filter
Filter 1

Limit
FCC Part 27

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Ch, (2503.5 MHz) | | | | | | | | | |
| 5.0070 | -8.6 | V | 3.0 | 40.9 | 1.0 | -48.5 | -25.0 | -23.5 | |
| 7.5100 | -8.0 | V | 3.0 | 40.7 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10.0140 | -10.1 | V | 3.0 | 39.7 | 1.0 | -48.8 | -25.0 | -23.8 | |
| 5.0070 | -6.8 | H | 3.0 | 40.9 | 1.0 | -46.8 | -25.0 | -21.8 | |
| 7.5100 | -3.7 | H | 3.0 | 40.7 | 1.0 | -43.5 | -25.0 | -18.5 | |
| 10.0140 | -10.6 | H | 3.0 | 39.7 | 1.0 | -49.3 | -25.0 | -24.3 | |
| Mid Ch, (2593 MHz) | | | | | | | | | |
| 5.1860 | -5.1 | V | 3.0 | 40.9 | 1.0 | -44.9 | -25.0 | -19.9 | |
| 7.7790 | -7.6 | V | 3.0 | 40.6 | 1.0 | -47.2 | -25.0 | -22.2 | |
| 10.3720 | -8.4 | V | 3.0 | 39.4 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 5.1860 | 1.0 | H | 3.0 | 40.9 | 1.0 | -38.9 | -25.0 | -13.9 | |
| 7.7790 | -3.8 | H | 3.0 | 40.6 | 1.0 | -43.4 | -25.0 | -18.4 | |
| 10.3720 | -11.9 | H | 3.0 | 39.4 | 1.0 | -50.3 | -25.0 | -25.3 | |
| High Ch, (2682.5 MHz) | | | | | | | | | |
| 5.3650 | -3.5 | V | 3.0 | 40.9 | 1.0 | -43.4 | -25.0 | -18.4 | |
| 8.0470 | -4.0 | V | 3.0 | 40.4 | 1.0 | -43.4 | -25.0 | -18.4 | |
| 10.7300 | -6.3 | V | 3.0 | 39.2 | 1.0 | -44.5 | -25.0 | -19.5 | |
| 5.3650 | 0.5 | H | 3.0 | 40.9 | 1.0 | -39.4 | -25.0 | -14.4 | |
| 8.0470 | 0.0 | H | 3.0 | 40.4 | 1.0 | -39.4 | -25.0 | -14.4 | |
| 10.7300 | -6.2 | H | 3.0 | 39.2 | 1.0 | -44.3 | -25.0 | -19.3 | |

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

LTE
 Band 41
 15MHz
 QPSK

LTE Band 12

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|-------|---|------------------|-----------------|--------------|-------------|-------------|------------|-------------|
| LTE Band 12 10MHz QPSK | | Date: 06-01-16 Test Engineer: JH Park Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 12, 10MHz BW, QPSK | | | | | | | |
| | | Chamber | | Pre-amplifier | | Filter | | Limit | |
| | | Chamber 2 | | AFS42 | | Filter 1 | | Part 27 | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) |
| Low Channel (704MHz) | | | | | | | | | |
| 1.4080 | -19.7 | V | 3.0 | 39.0 | 1.0 | -57.7 | -13.0 | -44.7 | |
| 2.1120 | -11.2 | V | 3.0 | 39.3 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 2.8160 | -17.1 | V | 3.0 | 39.7 | 1.0 | -55.8 | -13.0 | -42.8 | |
| 1.4080 | -17.2 | H | 3.0 | 39.0 | 1.0 | -55.3 | -13.0 | -42.3 | |
| 2.1120 | -7.5 | H | 3.0 | 39.3 | 1.0 | -45.9 | -13.0 | -32.9 | |
| 2.8160 | -17.0 | H | 3.0 | 39.7 | 1.0 | -55.7 | -13.0 | -42.7 | |
| Mid Channel (707.5MHz) | | | | | | | | | |
| 1.4150 | -18.7 | V | 3.0 | 39.0 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 2.1225 | -14.6 | V | 3.0 | 39.3 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 2.8300 | -17.5 | V | 3.0 | 39.7 | 1.0 | -56.2 | -13.0 | -43.2 | |
| 1.4150 | -13.5 | H | 3.0 | 39.0 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 2.1225 | -8.9 | H | 3.0 | 39.3 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 2.8300 | -16.7 | H | 3.0 | 39.7 | 1.0 | -55.4 | -13.0 | -42.4 | |
| High Channel (711MHz) | | | | | | | | | |
| 1.4220 | -19.9 | V | 3.0 | 39.0 | 1.0 | -57.9 | -13.0 | -44.9 | |
| 2.1330 | -12.2 | V | 3.0 | 39.3 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 2.8440 | -17.2 | V | 3.0 | 39.7 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 1.4220 | -19.4 | H | 3.0 | 39.0 | 1.0 | -57.4 | -13.0 | -44.4 | |
| 2.1330 | -6.8 | H | 3.0 | 39.3 | 1.0 | -45.1 | -13.0 | -32.1 | |
| 2.8440 | -16.0 | H | 3.0 | 39.7 | 1.0 | -54.7 | -13.0 | -41.7 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE Band 13

| UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|--------------|
| Date: | | 06-01-16 | | | | | | | |
| Test Engineer: | | JH Park | | | | | | | |
| Configuration: | | EUT / AC Adapter / Earphone, Z Position | | | | | | | |
| Mode: | | TX, LTE BAND 13, 5MHz BW,QPSK | | | | | | | |
| Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| Chamber 2 | | AFS42 | | Filter 1 | | Part 27 | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Channel (779.5MHz) | | | | | | | | | |
| 1.5590 | -16.3 | V | 3.0 | 39.1 | 1.0 | -54.4 | -40.0 | -14.4 | 1559-1610MHz |
| 2.3385 | -17.8 | V | 3.0 | 39.4 | 1.0 | -56.3 | -13.0 | -43.3 | |
| 3.1180 | -16.6 | V | 3.0 | 39.9 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 1.5590 | -15.6 | H | 3.0 | 39.1 | 1.0 | -53.7 | -40.0 | -13.7 | 1559-1610MHz |
| 2.3385 | -15.2 | H | 3.0 | 39.4 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 3.1180 | -16.5 | H | 3.0 | 39.9 | 1.0 | -55.5 | -13.0 | -42.5 | |
| Mid Channel (782MHz) | | | | | | | | | |
| 1.5640 | -19.2 | V | 3.0 | 39.1 | 1.0 | -57.2 | -40.0 | -17.2 | 1559-1610MHz |
| 2.3460 | -16.1 | V | 3.0 | 39.4 | 1.0 | -54.5 | -13.0 | -41.5 | |
| 3.1280 | -16.9 | V | 3.0 | 39.9 | 1.0 | -55.8 | -13.0 | -42.8 | |
| 1.5640 | -18.5 | H | 3.0 | 39.1 | 1.0 | -56.6 | -40.0 | -16.6 | 1559-1610MHz |
| 2.3460 | -14.6 | H | 3.0 | 39.4 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 3.1280 | -16.7 | H | 3.0 | 39.9 | 1.0 | -55.6 | -13.0 | -42.6 | |
| High Channel (784.5MHz) | | | | | | | | | |
| 1.5690 | -15.4 | V | 3.0 | 39.1 | 1.0 | -53.5 | -40.0 | -13.5 | 1559-1610MHz |
| 2.3535 | -16.4 | V | 3.0 | 39.4 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 3.1380 | -16.4 | V | 3.0 | 39.9 | 1.0 | -55.4 | -13.0 | -42.4 | |
| 1.5690 | -15.7 | H | 3.0 | 39.1 | 1.0 | -53.8 | -40.0 | -13.8 | 1559-1610MHz |
| 2.3535 | -15.7 | H | 3.0 | 39.4 | 1.0 | -54.1 | -13.0 | -41.1 | |
| 3.1380 | -16.8 | H | 3.0 | 39.9 | 1.0 | -55.7 | -13.0 | -42.7 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

LTE
 Band 13
 5MHz
 QPSK