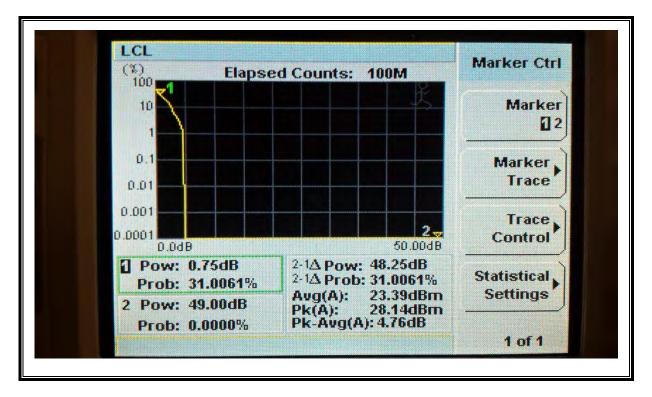
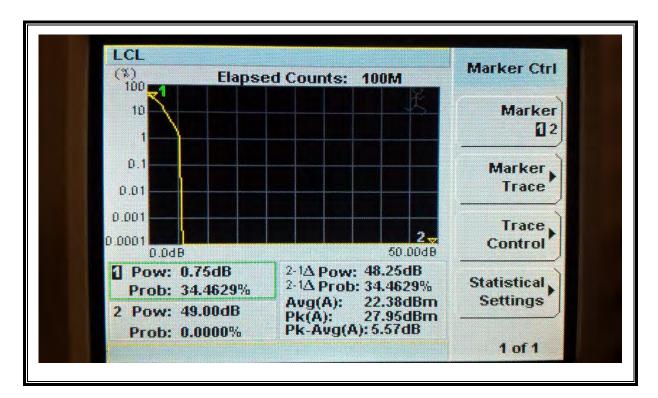
LTE QPSK Band 4 (15 MHz BAND WIDTH)

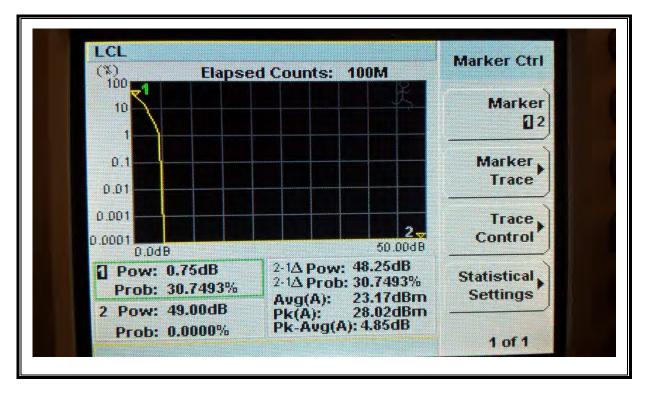


LTE 16QAM Band 4 (15 MHz BAND WIDTH)

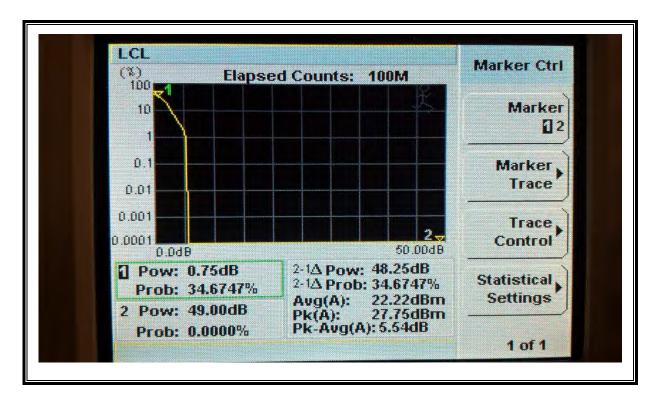


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LTE QPSK Band 4 (20 MHz BAND WIDTH)

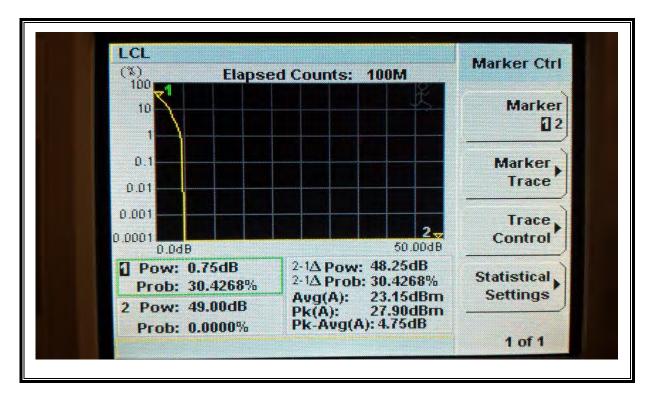


LTE 16QAM Band 4 (20 MHz BAND WIDTH)

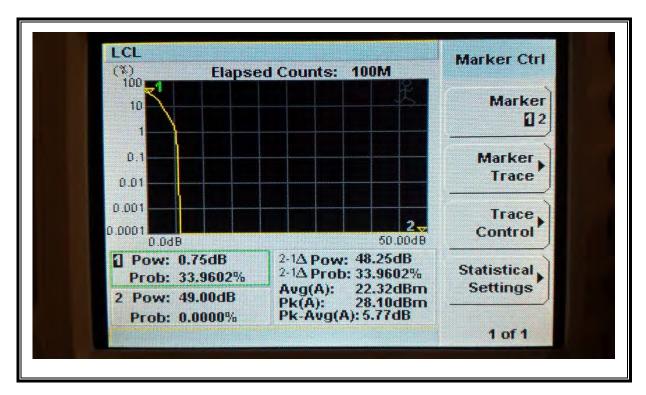


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QPSK Band 5 (1.4 MHz BAND WIDTH)

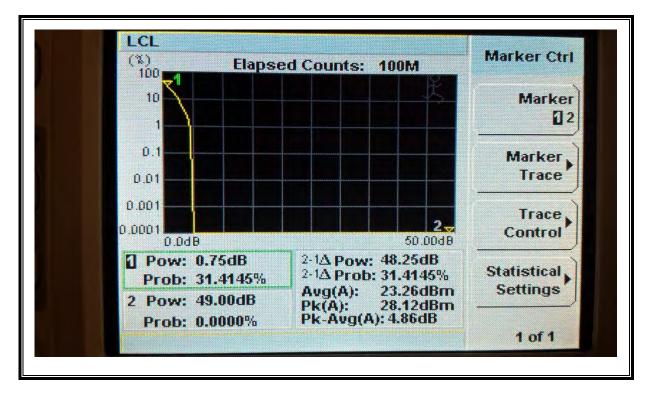


16QAM Band 5 (1.4 MHz BAND WIDTH)

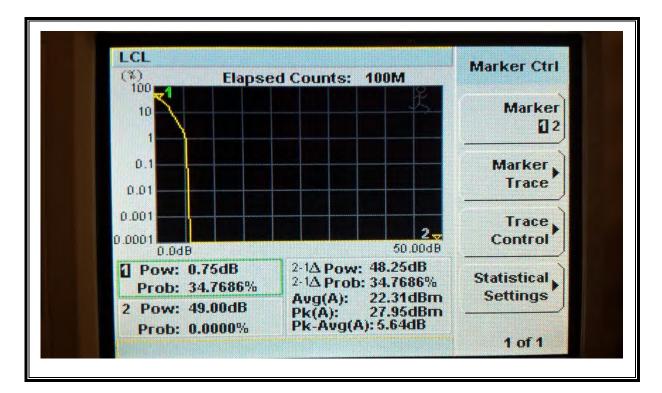


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LTE QPSK Band 5 (3 MHz BAND WIDTH)

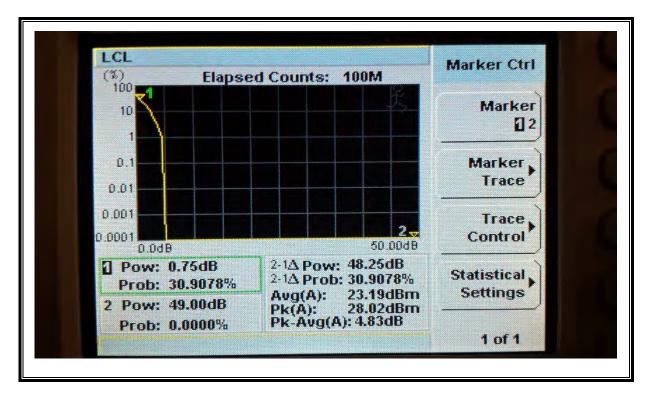


LTE 16QAM Band 5 (3 MHz BAND WIDTH)

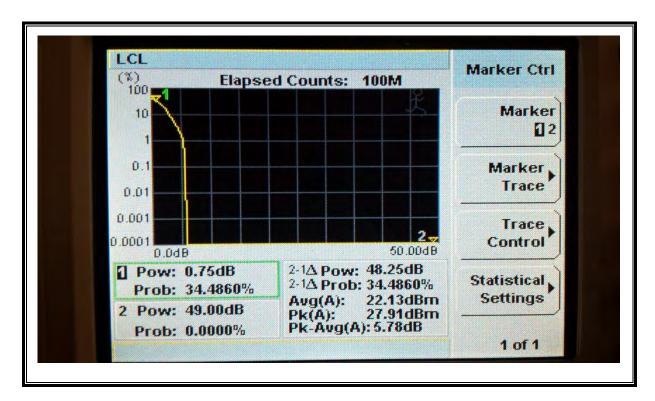


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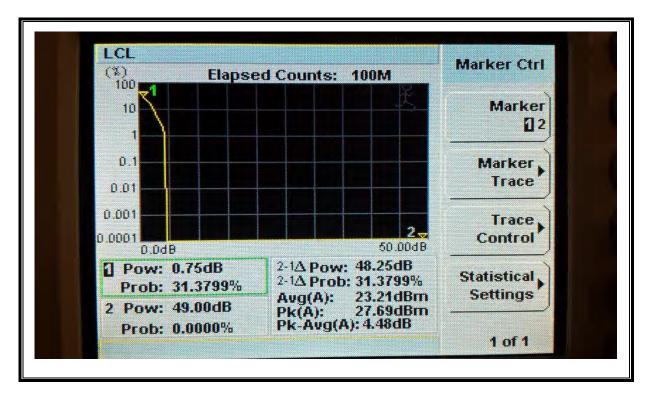
LTE QPSK Band 5 (5 MHz BAND WIDTH)



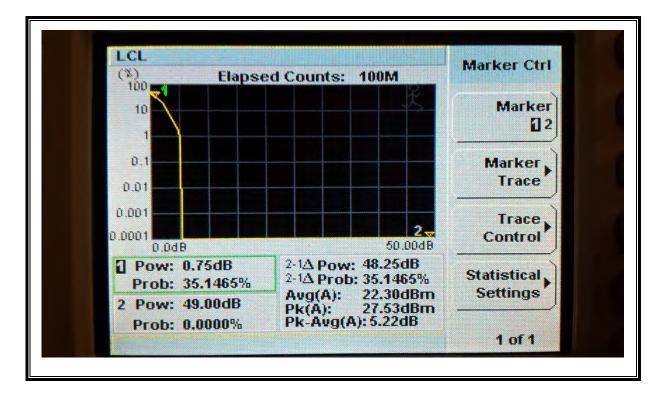
LTE 16QAM Band 5 (5 MHz BAND WIDTH)



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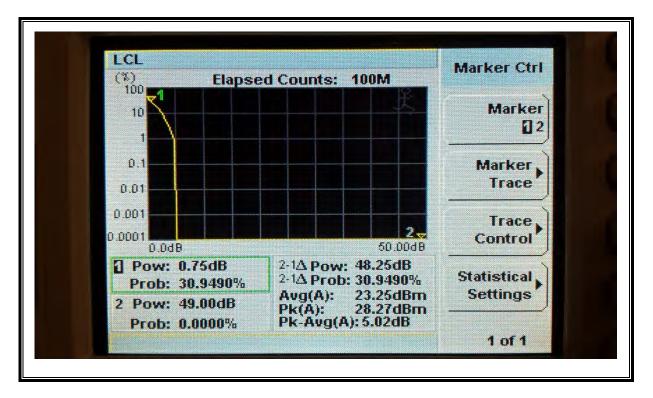


LTE 16QAM Band 5 (10 MHz BAND WIDTH)

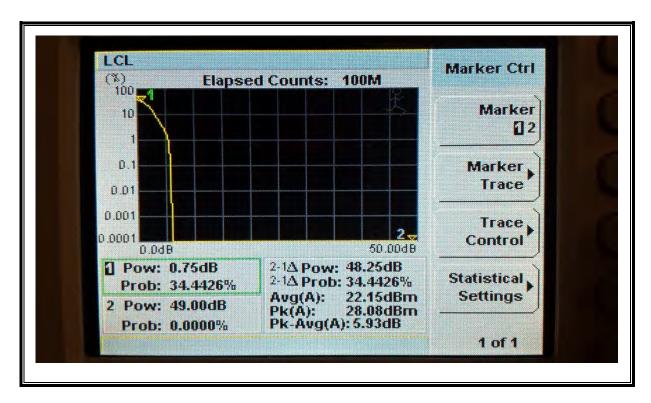


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LTE QPSK Band 13 (5 MHz BAND WIDTH)

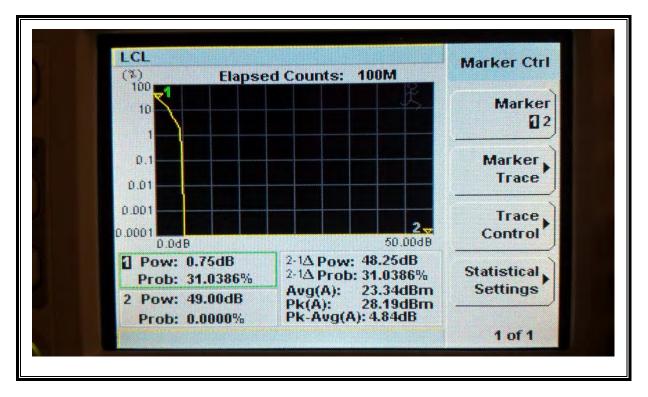


LTE 16QAM Band 13 (5 MHz BAND WIDTH)

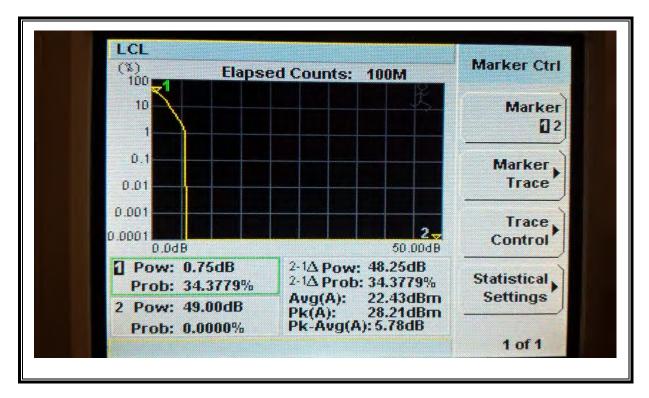


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LTE QPSK Band 13 (10 MHz BAND WIDTH)

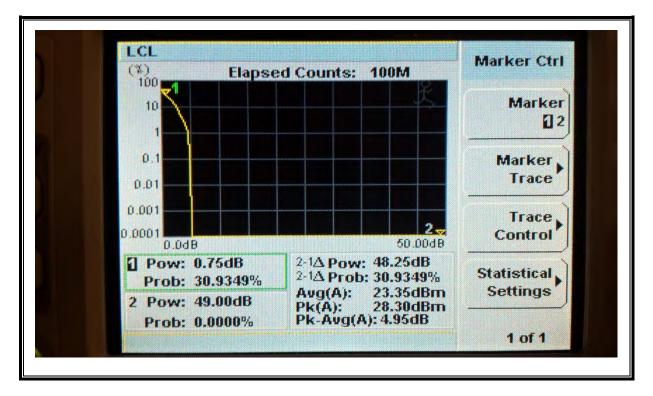


LTE 16QAM Band 13 (10 MHz BAND WIDTH)

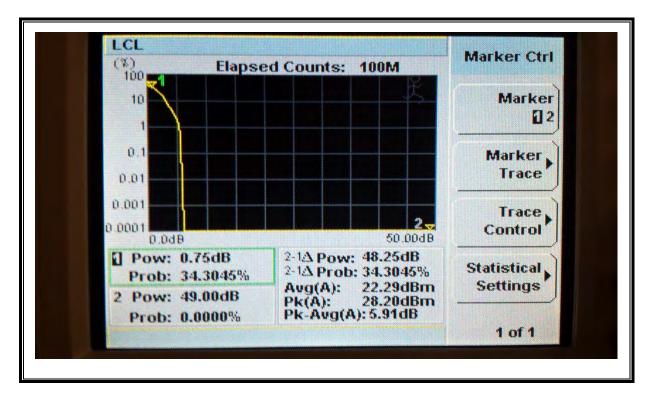


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LTE QPSK Band 17 (5 MHz BAND WIDTH)

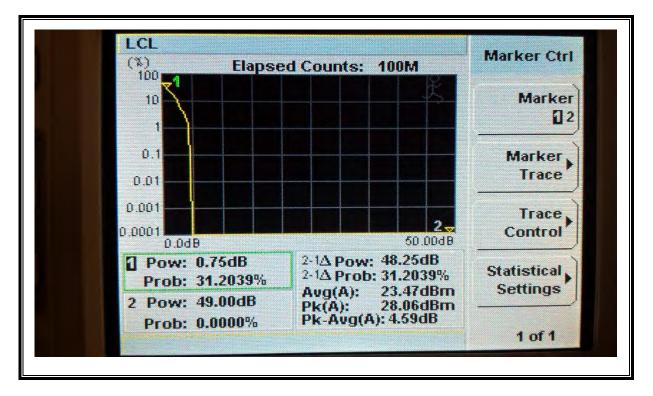


LTE 16QAM Band 17 (5 MHz BAND WIDTH)

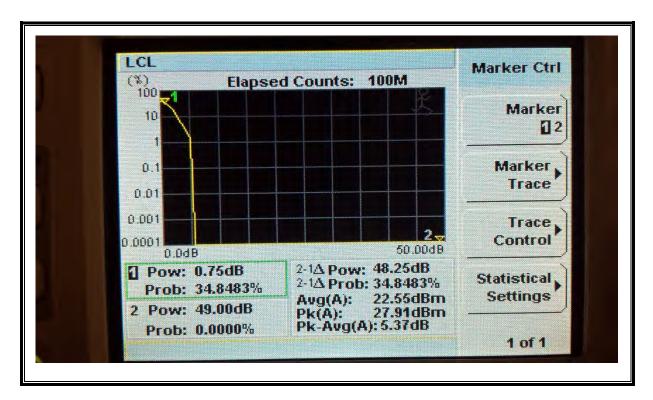


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LTE QPSK Band 17 (10 MHz BAND WIDTH)

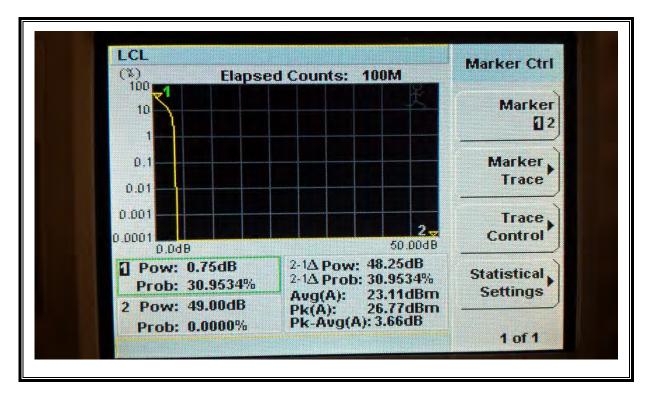


LTE 16QAM Band 17 (10 MHz BAND WIDTH)

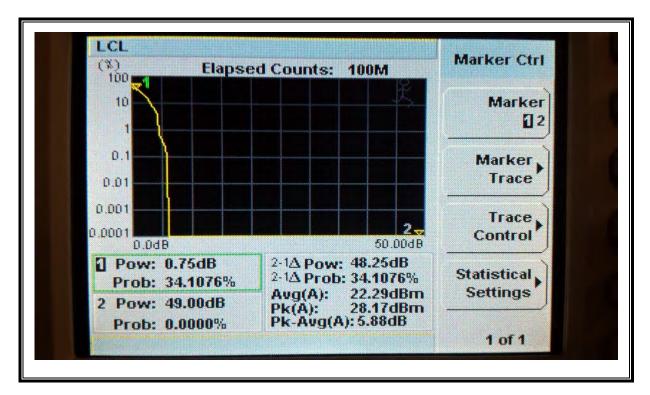


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QPSK Band 25 (1.4 MHz BAND WIDTH)

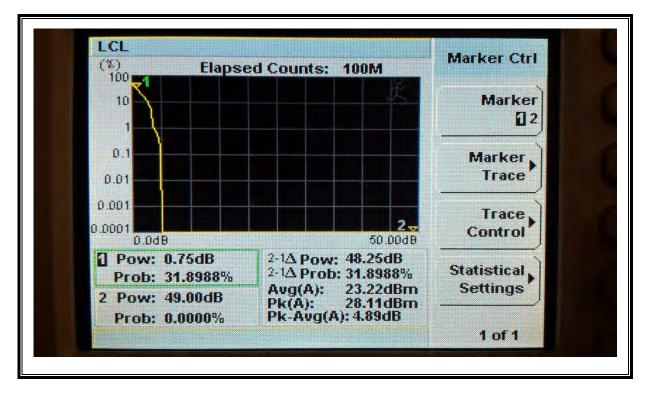


16QAM Band 25 (1.4 MHz BAND WIDTH)

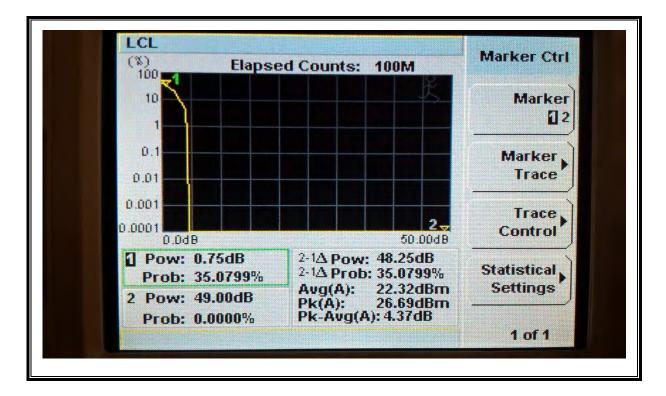


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LTE QPSK Band 25 (3 MHz BAND WIDTH)

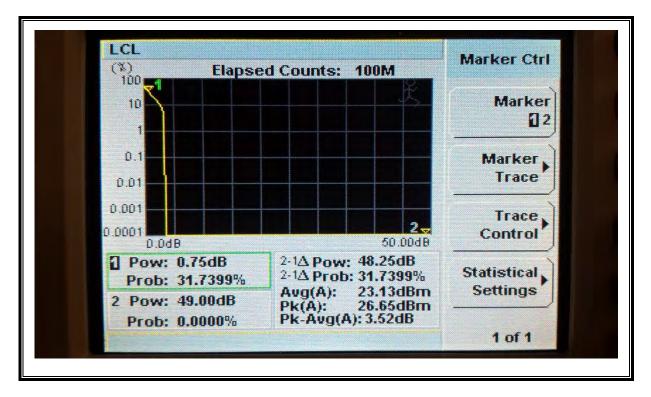


LTE 16QAM Band 25 (3 MHz BAND WIDTH)

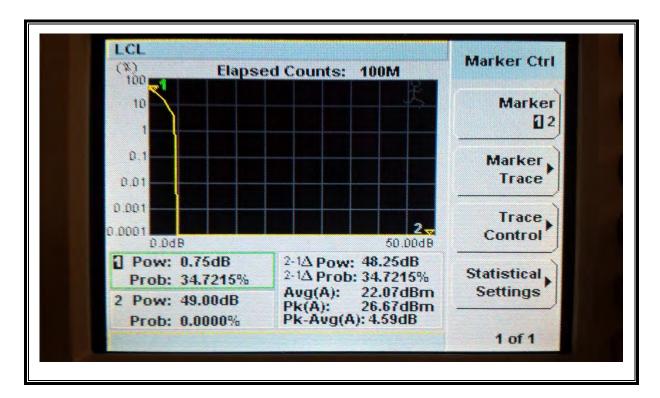


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LTE QPSK Band 25 (5 MHz BAND WIDTH)

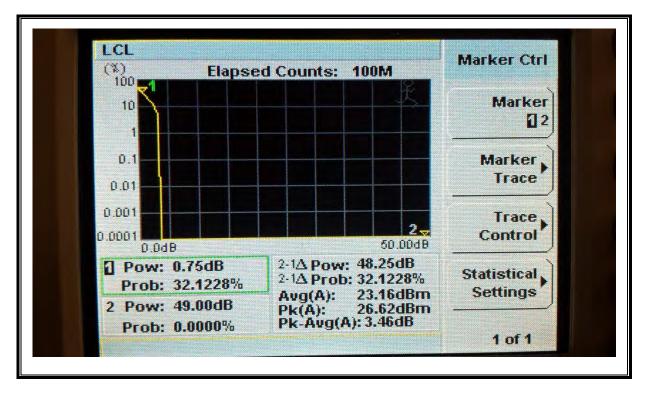


LTE 16QAM Band 25 (5 MHz BAND WIDTH)

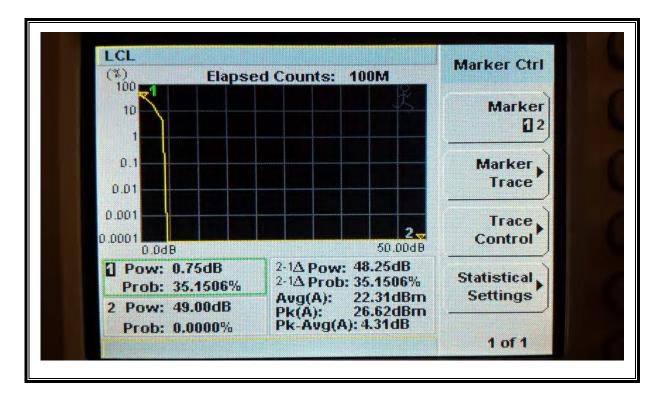


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LTE QPSK Band 25 (10 MHz BAND WIDTH)

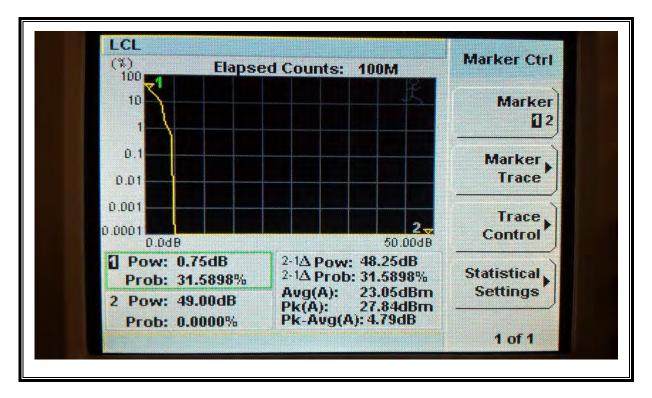


LTE 16QAM Band 25 (10 MHz BAND WIDTH)

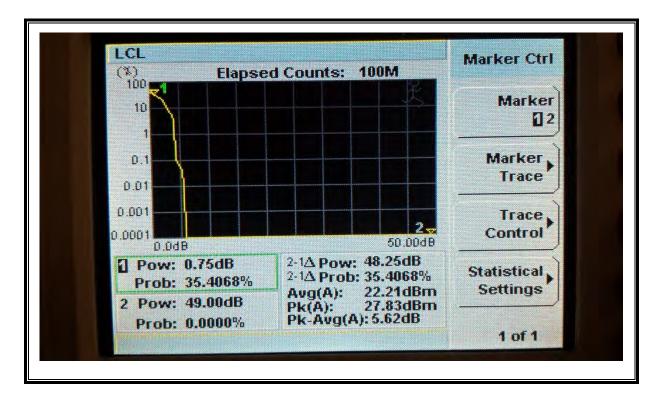


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LTE QPSK Band 25 (15 MHz BAND WIDTH)

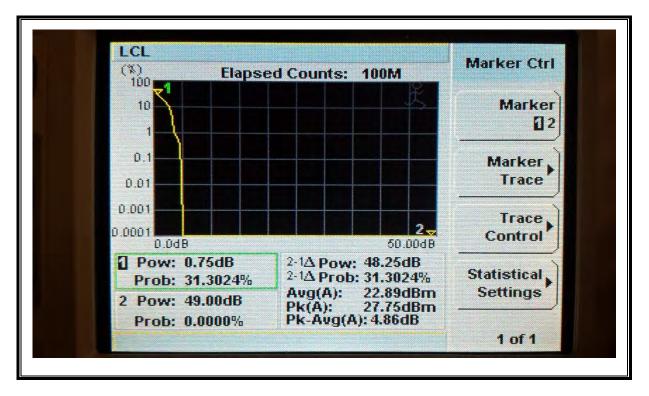


LTE 16QAM Band 25 (15 MHz BAND WIDTH)

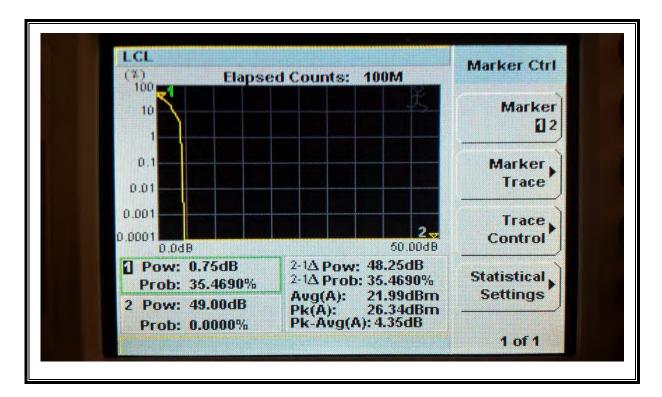


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LTE QPSK Band 25 (20 MHz BAND WIDTH)

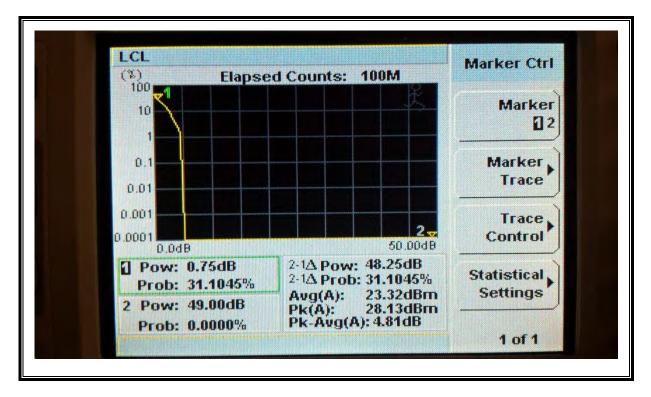


LTE 16QAM Band 25 (20 MHz BAND WIDTH)

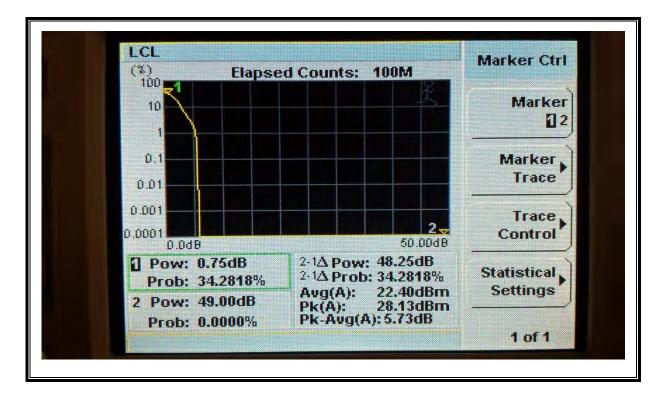


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LTE QPSK Band 26 (3 MHz BAND WIDTH)

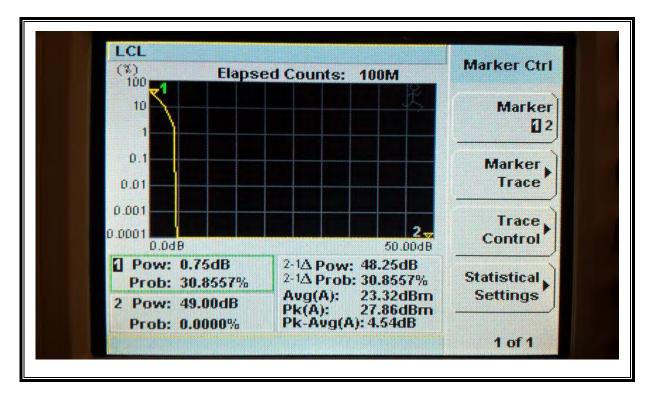


LTE 16QAM Band 26 (3 MHz BAND WIDTH)

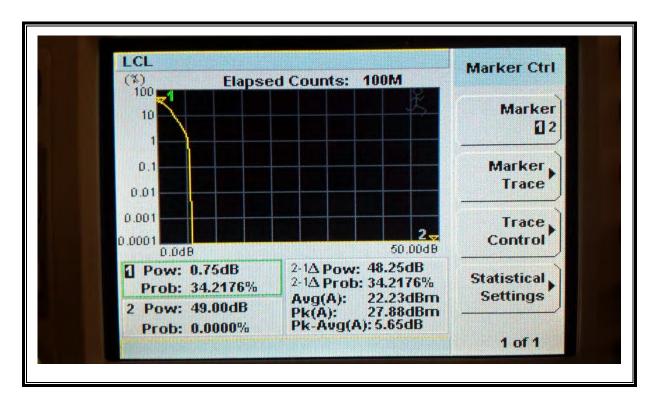


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LTE QPSK Band 26 (5 MHz BAND WIDTH)

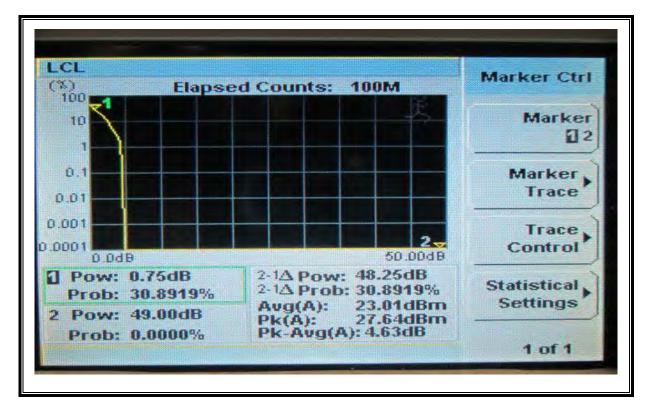


LTE 16QAM Band 26 (5 MHz BAND WIDTH)

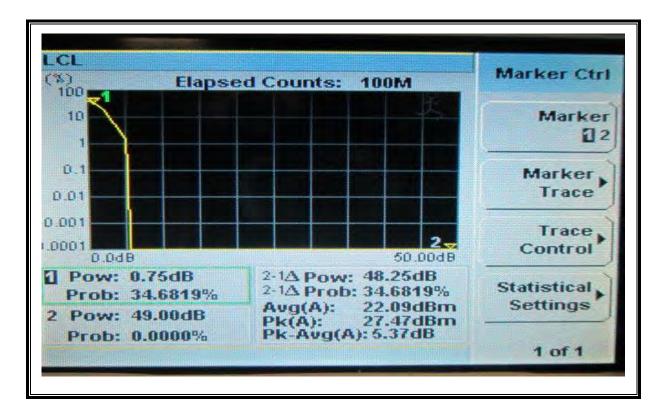


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LTE QPSK Band 26 (10.0 MHz BAND WIDTH)



LTE 16QAM Band 26 (10.0 MHz BAND WIDTH)



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9.3. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

<u>LIMIT</u>

§22.917 (e) and §24.238 (a): Out of band emissions. 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.

§27.53 (g) For operations in 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.

§27.53 (h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10 log10(P) dB.

TEST PROCEDURE

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.

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The unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth in the 1 MHz band immediately outside and adjacent to the channel edge of the equipment. Beyond the 1 MHz band immediately outside the channel edge of the equipment, a resolution bandwidth of 1 MHz shall be employed. A narrower resolution bandwidth is allowed to be used provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz or 1% of the occupied bandwidth as applicable.

The power of any unwanted emissions measured from the channel edge of the equipment shall be attenuated below the transmitter power, P (dBW), as follows:

a. for base station and subscriber equipment, other than mobile subscriber equipment, the attenuation shall not be less than 43 + 10 Log10 (p), dB; and

b. for mobile subscriber equipment, the attenuation shall not be less than 43 + 10 Log10 (p), dB at the channel edges and 55 + 10 Log10 (p) at 5.5 MHz away and beyond the channel edges where p in (a) and (b) is the transmitter power measured in watts.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26

RESULTS

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9.3.1. LTE BAND 2

LAT QPSK EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

| | | | | ted Emissions Substitution I | | | | | |
|---|--|------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|-------------------------|-------------------------|-------|
| Company: | | Apple | | | | | | | |
| Project #: | | 14U17673 | | | | | | | |
| Date: | | 06/09/14 | | | | | | | |
| Test Engine | or: | Ali Poushnejad | | | | | | | |
| Configuratio | | EUT only | | | | | | | |
| Sonfiguratio Mode: | | LTE Band 2, 1 | | | | | | | |
| est Equipm | | ubstitution. a | and 8ft SMA Ca | ble | | | | | |
| | Chamber | | Pre-a | mplifer | Filte | er | | Li | mit |
| | | | | | | | 4 | | |
| 3m C | hamber F | • | 3m Chan | nber F 🚽 | | • | • | Part 24 | - |
| Frequency | SG reading | Ant. Pol. | Distance | Preamp | Attenuator | EIRP | Limit | Delta | Notes |
| (GHz) | (dBm) | (H/V) | | | | | | | |
| ow Channel. | (1850.7MHz) | | | | | | | | |
| 3.70 | -14.3 | H | 3.0 | 36.3 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 5.55 | -13.2 | Н | 3.0 | 35.6 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 3.70 | -14.2 | V | 3.0 | 36.3 | 1.0 | -49.5 | -13.0 | -36.5 | |
| | -11.9 | V | 3.0 | 35.6 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 5.55 | 1880MHz) | | | | | | | | |
| 5.55 | | Н | 3.0 | 36.3 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 5.55 Mid Channel (| -13.4 | | | | 1.0 | -47.3 | -13.0 | -34.3 | |
| 5.55 Mid Channel (3.76 | -13.4 -12.7 | Н | 3.0 | 35.6 | | | | -36.0 | |
| 5.55 Aid Channel (| -13.4 -12.7 -13.7 | H V | 3.0 3.0 | 35.6 36.3 | 1.0 | -49.0 | -13.0 | -30.0 | |
| 5.55 Aid Channel (3.76 5.64 | -12.7 | | | | | | -13.0 -13.0 | -36.0 -34.2 | |
| 5.55 Mid Channel (3.76 5.64 3.76 5.64 | -12.7 -13.7 -12.6 | V | 3.0 | 36.3 | 1.0 | -49.0 | | | |
| 5.55 Aid Channel (3.76 5.64 3.76 5.64 5.64 High Channel | -12.7 -13.7 -12.6 (1909.3MHz) | V V | 3.0 3.0 | 36.3 35.6 | 1.0 1.0 | -49.0 -47.2 | -13.0 | -34.2 | |
| 5.55 Aid Channel (3.76 5.64 3.76 5.64 5.64 High Channel 3.82 | -12.7 -13.7 -12.6 (1909.3MHz) -14.0 | V V H | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 | -49.0 -47.2 -49.3 | -13.0 -13.0 | -34.2 -36.3 | |
| 5.55 Aid Channel (3.76 5.64 3.76 5.64 4 igh Channel 3.82 5.73 | -12.7 -13.7 -12.6 (1909.3MHz) -14.0 -12.1 | V V H H | 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 1.0 | 49.0 47.2 49.3 46.7 | -13.0 -13.0 -13.0 | -34.2 -36.3 -33.7 | |
| 5.55 Aid Channel (3.76 5.64 3.76 5.64 5.64 High Channel 3.82 | -12.7 -13.7 -12.6 (1909.3MHz) -14.0 | V V H | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 | -49.0 -47.2 -49.3 | -13.0 -13.0 | -34.2 -36.3 | |

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LAT 16QAM EIRP POWER FOR LTE BAND 2 (1.4MHZ BANDWIDTH)

| | | | | ited Emissions z Substitution N | | | | | |
|--|---|---|--|--|--|---|--|--|-------|
| company: | | Apple | | | | | | | |
| Project #: | | 14U17673 | | | | | | | |
| ate: | | 06/09/14 | | | | | | | |
| est Engine | | Ali Poushnejad | 1 | | | | | | |
| Configuratio | | EUT only | | | | | | | |
| lode: | | LTE Band 2, 1 | 4MHz 16QAM | | | | | | |
| | Chamber | | | amplifer | Filte | er | ļ | Lin | nit |
| 3m C | 3m Chamber F 🗸 🗸 | | 3m Chamber F 🗸 | | • | | | Part 24 🗸 | |
| | | | | | | | | | |
| | SG reading | | Distance | Preamp | Attenuator | EIRP | Limit | Delta | Notes |
| (GHz) | (dBm) | Ant. Pol. (H/V) | Distance | Preamp | Attenuator | EIRP | Limit | Delta | Notes |
| (GHz) | (dBm) | | Distance | Preamp | Attenuator | EIRP -50.8 | Limit -13.0 | Delta | Notes |
| (GHz) ow Channel 3.70 5.55 | (dBm) (1850.7MHz) -15.5 -13.2 | (H/V) H H | 3.0 3.0 | 36.3 35.6 | 1.0 1.0 | -50.8 -47.8 | -13.0 -13.0 | -37.8 -34.8 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 | (H/V) H H V | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 | -50.8 -47.8 -50.3 | -13.0 -13.0 -13.0 | -37.8 -34.8 -37.3 | Notes |
| (GHz) ow Channel 3.70 5.55 | (dBm) (1850.7MHz) -15.5 -13.2 | (H/V) H H | 3.0 3.0 | 36.3 35.6 | 1.0 1.0 | -50.8 -47.8 | -13.0 -13.0 | -37.8 -34.8 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 | (H/V) H H V | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 | -50.8 -47.8 -50.3 | -13.0 -13.0 -13.0 | -37.8 -34.8 -37.3 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 | (H/V) H H V | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 | -50.8 -47.8 -50.3 | -13.0 -13.0 -13.0 | -37.8 -34.8 -37.3 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 lid Channel (| (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 1880MHz) | (H/V) H H V V | 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 | -50.8 -47.8 -50.3 -48.1 | -13.0 -13.0 -13.0 -13.0 | -37.8 -34.8 -37.3 -35.1 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 id Channel (3.76 5.64 3.76 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 1880MHz) -14.9 -13.6 -13.9 | (H/V) H H V V V H H V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.8 -47.8 -50.3 -48.1 -50.2 -48.2 -49.2 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 37.8 34.8 37.3 35.1 37.2 35.2 36.2 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 1880MHz) -14.9 -13.6 | (H/V) H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 1.0 1.0 | -50.8 -47.8 -50.3 -48.1 -50.2 -48.2 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 37.8 34.8 37.3 35.1 37.2 35.2 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 idd Channel (3.76 5.64 3.76 5.64 3.76 5.64 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 1880MHz) -13.6 -13.9 -13.7 | (H/V) H H V V V H H V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.8 -47.8 -50.3 -48.1 -50.2 -48.2 -49.2 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 37.8 34.8 37.3 35.1 37.2 35.2 36.2 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 id Channel (3.76 5.64 3.76 5.64 3.76 5.64 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 1880MHz) -13.6 -13.9 -13.7 | (H/V) H H V V V H H V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.8 -47.8 -50.3 -48.1 -50.2 -48.2 -49.2 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 37.8 34.8 37.3 35.1 37.2 35.2 36.2 | Notes |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 iid Channel (3.76 5.64 3.76 5.64 3.76 5.64 iigh Channel | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 1880MHz) -14.9 -13.6 -13.9 -13.7 (1909.3MHz) | (H/V) H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 35.6 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.8 -47.8 -50.3 -48.1 -50.2 -48.2 -49.2 -48.3 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 37.8 34.8 37.3 35.1 37.2 35.2 36.2 35.3 | Notes |
| (GHz) w Channel 3.70 5.55 3.70 5.55 id Channel (3.76 5.64 3.76 5.64 3.76 5.64 3.76 5.64 gh Channel 3.82 | (dBm) (1850.7MHz) -15.5 -13.2 -15.0 -13.5 -13.5 -13.6 -13.6 -13.9 -13.7 (1909.3MHz) -15.1 | (H/V) H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.8 47.8 50.3 48.1 -50.2 48.2 49.2 48.3 -50.4 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 37.8 34.8 37.3 35.1 35.1 35.2 36.2 35.3 37.4 | Notes |

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LAT QPSK EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

| | | | | ated Emissions z Substitution I | | | | | |
|---|--|---------------------------------|--|--|--|--|--|--|-------|
| ompany: | | Apple | | | | | | | |
| roject #: | | 14U17673 | | | | | | | |
| ate: | | 06/09/14 | | | | | | | |
| est Engine | er: | A. Poushnejad | 1 | | | | | | |
| onfiguratio | n: | EUT only | | | | | | | |
| lode: | | LTE Band 2, 3 | MHz QPSK | | | | | | |
| <u>est Equipm</u> ubstitution: | | | and 8ft SMA C Pre-a | able amplifer | Filte | er | 1 | Lir | nit |
| 3m C | hamber F | - | 3m Chamber F 🚽 | | ▼ | | | Part 24 🗸 | |
| | SG reading | | Distance | Preamp | Attenuator | EIRP | Limit | Delta | Notes |
| (GHz) | (dBm) | (H/V) | | | | | 1 | | |
| our Channel | | | 3.0 | 36.3 | 1.0 | -49.8 | -13.0 | -36.8 | |
| | .14 5 | | | | | | | | |
| ow Channel 3.70 5.55 | -14.5 -13.6 | H | 3.0 | 35.6 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3.70 | | | | 35.6 36.3 | | -48.1 -49.3 | -13.0 -13.0 | -35.1 -36.3 | |
| 3.70 5.55 | -13.6 | Н | 3.0 | | 1.0 | | | | |
| 3.70 5.55 3.70 5.55 | -13.6 -14.0 -13.2 | H V | 3.0 3.0 | 36.3 | 1.0 1.0 | -49.3 | -13.0 | -36.3 | |
| 3.70 5.55 3.70 | -13.6 -14.0 -13.2 | H V | 3.0 3.0 | 36.3 | 1.0 1.0 | -49.3 | -13.0 | -36.3 | |
| 3.70 5.55 3.70 5.55 Iid Channel (3.76 5.64 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 | H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 | 49.3 47.7 49.4 48.1 | -13.0 -13.0 -13.0 -13.0 -13.0 | -36.3 -34.7 -36.4 -35.1 | |
| 3.70 5.55 3.70 5.55 Iid Channel (3.76 5.64 3.76 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 -13.8 | H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 | 49.3 47.7 49.4 49.4 48.1 49.1 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | -36.3 -34.7 -36.4 -35.1 -36.1 | |
| 3.70 5.55 3.70 5.55 Iid Channel (3.76 5.64 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 | H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 | 49.3 47.7 49.4 48.1 | -13.0 -13.0 -13.0 -13.0 -13.0 | -36.3 -34.7 -36.4 -35.1 | |
| 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 3.76 5.64 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 -13.8 -13.6 | H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 | 49.3 47.7 49.4 49.4 48.1 49.1 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | -36.3 -34.7 -36.4 -35.1 -36.1 | |
| 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 3.76 5.64 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 -13.8 -13.6 | H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 | 49.3 47.7 49.4 49.4 48.1 49.1 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | -36.3 -34.7 -36.4 -35.1 -36.1 | |
| 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 3.76 5.64 igh Channel 3.82 5.73 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 -13.8 -13.6 (1908.5MHz) -14.0 -11.4 | H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | 49.3 47.7 49.4 48.1 49.1 48.2 49.3 46.0 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 36.3 34.7 36.4 35.1 36.1 35.2 36.3 33.0 | |
| 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 3.76 5.64 3.76 5.64 3.76 5.64 | -13.6 -14.0 -13.2 1880MHz) -14.1 -13.5 -13.8 -13.6 (1908.5MHz) -14.0 | H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | _49.3 _47.7 _49.4 _48.1 _49.1 _48.2 _49.3 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | 36.3 34.7 36.4 35.1 36.1 35.2 36.3 | |

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LAT 16QAM EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

| | | | | ted Emissions Substitution I | | | | | | |
|--|---|---|--|--|--|---|--|---|-------|--|
| Company: | | Apple | | | | | | | | |
| Project #: | | 14U17673 | | | | | | | | |
| Date: | | 06/09/14 | | | | | | | | |
| Fest Engine | er: | A. Poushnejad | l | | | | | | | |
| Configuratio | | EUT only | | | | | | | | |
| lode: | | LTE Band 2, 3 | MHz 16QAM | | | | | | | |
| <u>est Equipm</u> ubstitution | | ubstitution, a | and 8ft SMA Ca | able | | | | | | |
| | Chamber | | | mplifer | Filter - | | | Limit | | |
| 3m C | 3m Chamber F 🗸 🗸 | | 3m Chamber F → | | | | | Part 24 | | |
| | | | Distance | Draaman | Attenuator | EIRP | Limit | Delta | Notes | |
| | SG reading | | Distance | Preamp | Attenuator | LINE | Limit | Deita | Notes | |
| (GHz) | (dBm) | Ant. Pol. (H/V) | Distance | Preamp | Attenuator | LINF | Limit | Deita | notes | |
| (GHz) ow Channel | (dBm) (1851.5MHz) | (H/V) | | - | | | | | notes | |
| (GHz) ow Channel 3.70 | (dBm) (1851.5MHz) -15.6 | (H/V) Н | 3.0 | 36.3 | 1.0 | -50.9 | -13.0 | -37.9 | Notes | |
| (GHz) ow Channel 3.70 5.55 | (dBm) (1851.5MHz) -15.6 -13.9 | (H/V) H H | 3.0 3.0 | 36.3 35.6 | 1.0 1.0 | -50.9 -48.4 | -13.0 -13.0 | -37.9 -35.4 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 | (H/V) H H V | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 | -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 | Notes | |
| (GHz) ow Channel 3.70 5.55 | (dBm) (1851.5MHz) -15.6 -13.9 | (H/V) H H | 3.0 3.0 | 36.3 35.6 | 1.0 1.0 | -50.9 -48.4 | -13.0 -13.0 | -37.9 -35.4 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 | (H/V) H H V | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 | -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 | (H/V) H H V V | 3.0 3.0 3.0 | 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 | -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 lid Channel (| (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 1880MHz) | (H/V) H H V | 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 | -13.0 -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 -35.1 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 id Channel (3.76 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 1880MHz) -15.5 | (H/V) H V V H | 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 -50.8 | -13.0 -13.0 -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 -35.1 -37.8 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 1880MHz) -15.5 -12.9 | (H/V) H V V H H | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 -50.8 -47.5 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 -35.1 -37.8 -34.5 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 id Channel 3.76 5.64 3.76 5.64 3.76 5.64 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 -13.5 -1880MHz) -15.5 -12.9 -13.4 -12.0 | (H/V) H H V V V H H V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 -50.8 -47.5 -48.7 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 -35.1 -37.8 -34.5 -35.7 | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 id Channel 3.76 5.64 3.76 5.64 3.76 5.64 | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 1880MHz) -15.5 -12.9 -13.4 -12.0 (1908.5MHz) | (H/V) H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 -50.8 -47.5 -48.7 -46.6 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | | Notes | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 lid Channel (3.76 5.64 3.76 5.64 3.76 5.64 3.76 5.64 3.76 5.64 | (dBm) (1851.5MHz) .15.6 .13.9 .14.8 .13.5 .15.5 .12.9 .13.4 .12.0 (1908.5MHz) .13.3 | (H/V) H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 -50.8 -47.5 -48.7 -46.6 -48.5 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | -37.9 -35.4 -37.1 -35.1 | | |
| (GHz) ow Channel 3.70 5.55 3.70 5.55 lid Channel 3.76 5.64 3.76 5.64 3.76 5.64 igh Channel | (dBm) (1851.5MHz) -15.6 -13.9 -14.8 -13.5 1880MHz) -15.5 -12.9 -13.4 -12.0 (1908.5MHz) | (H/V) H V V H H V V | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 36.3 35.6 | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | -50.9 -48.4 -50.1 -48.1 -50.8 -47.5 -48.7 -46.6 | -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 | | Notes | |

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