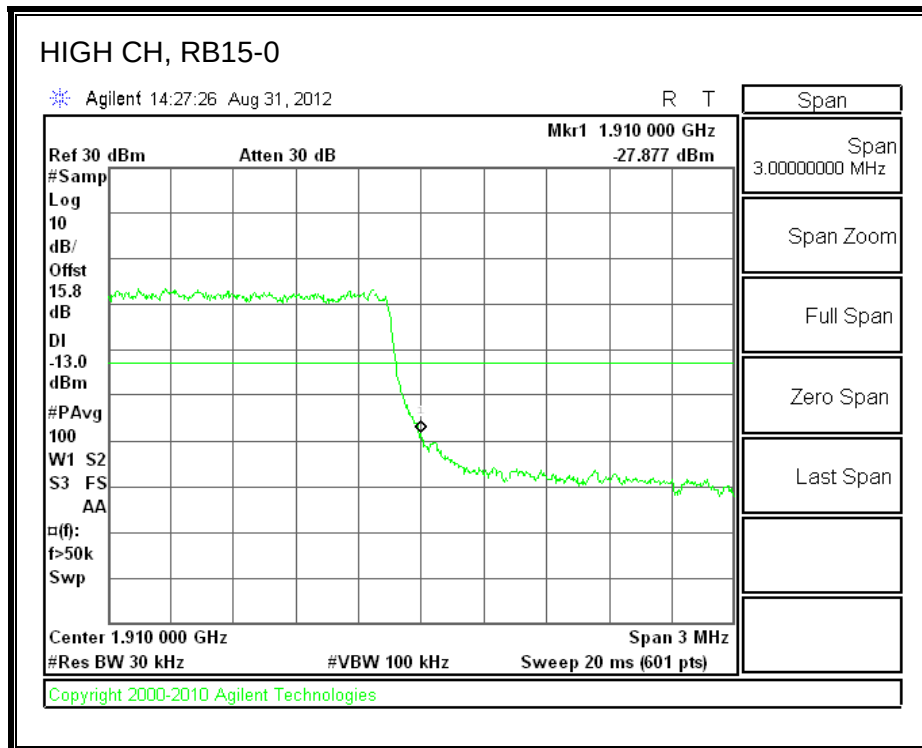
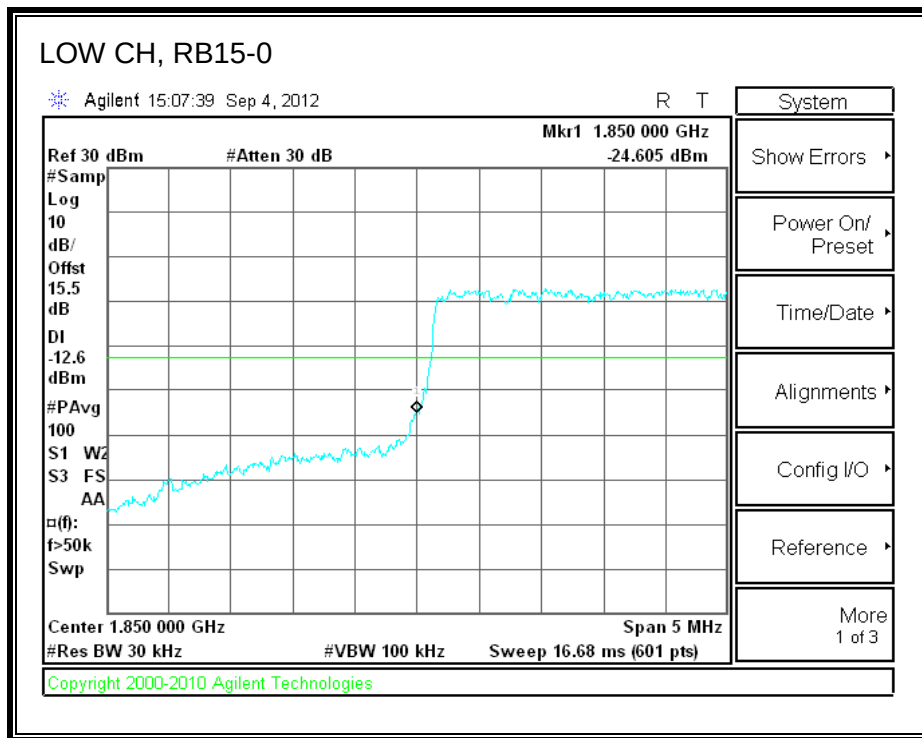
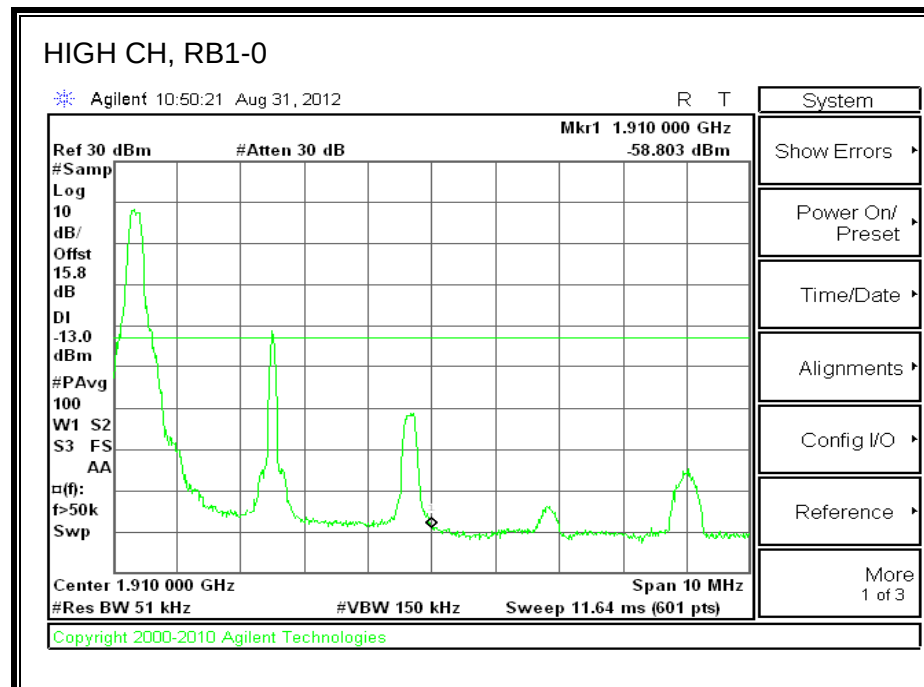
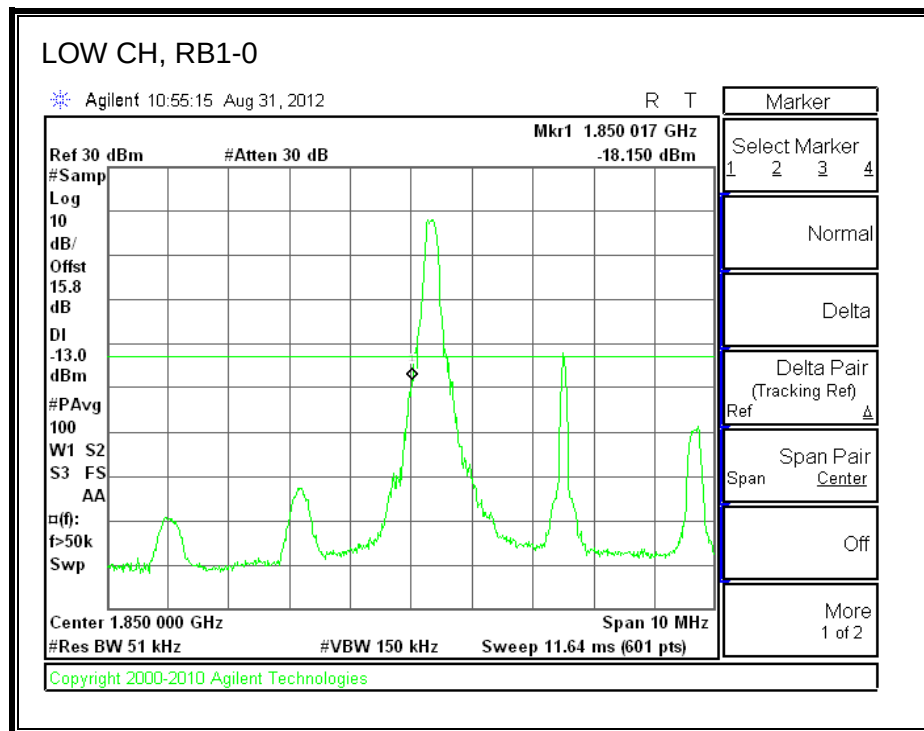
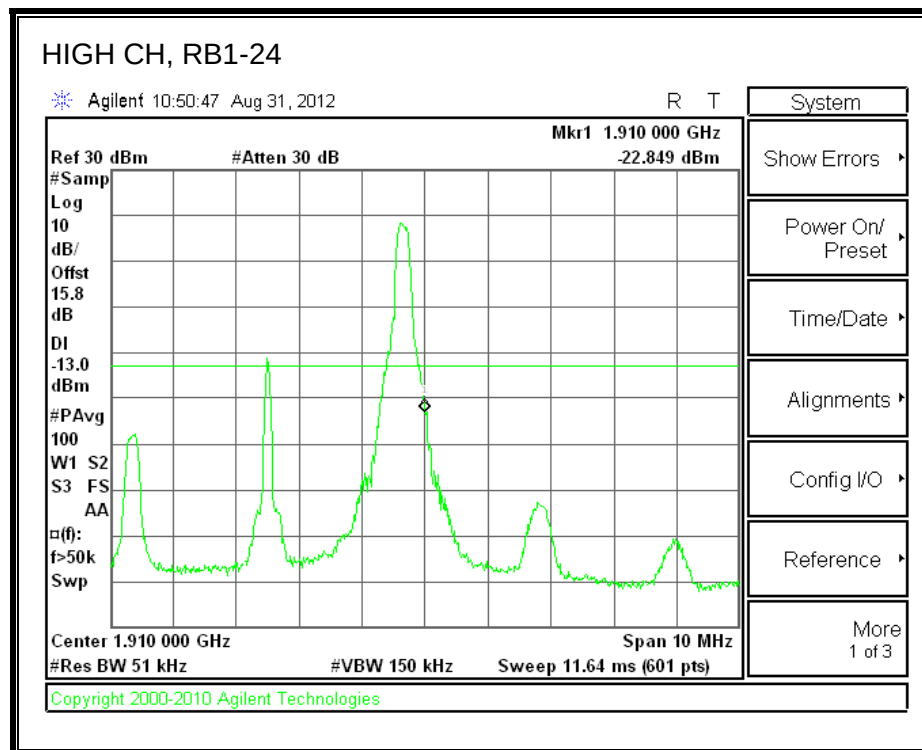
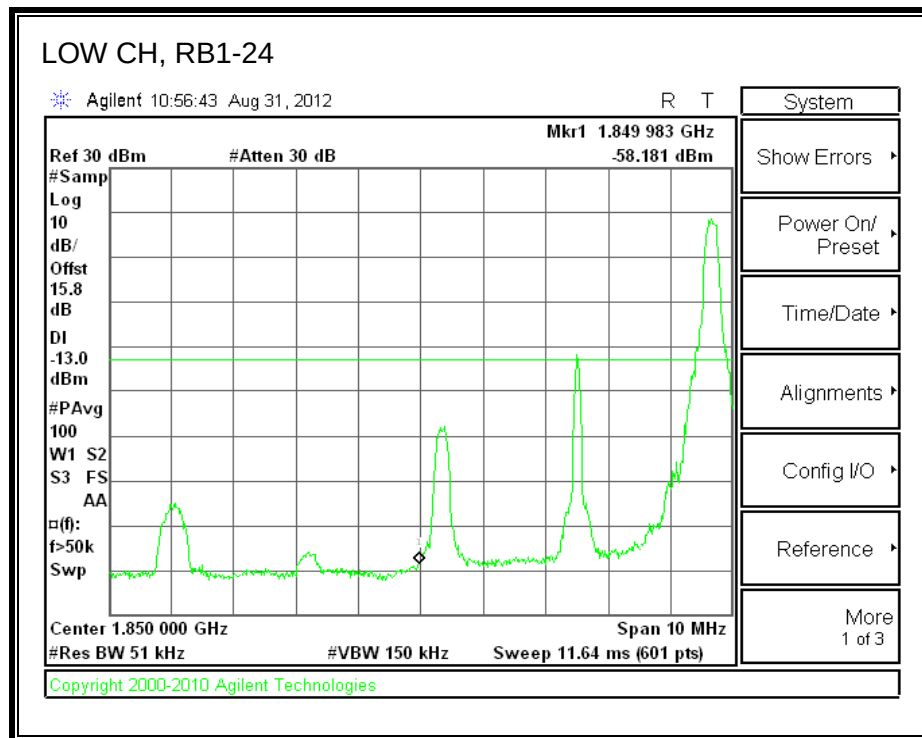
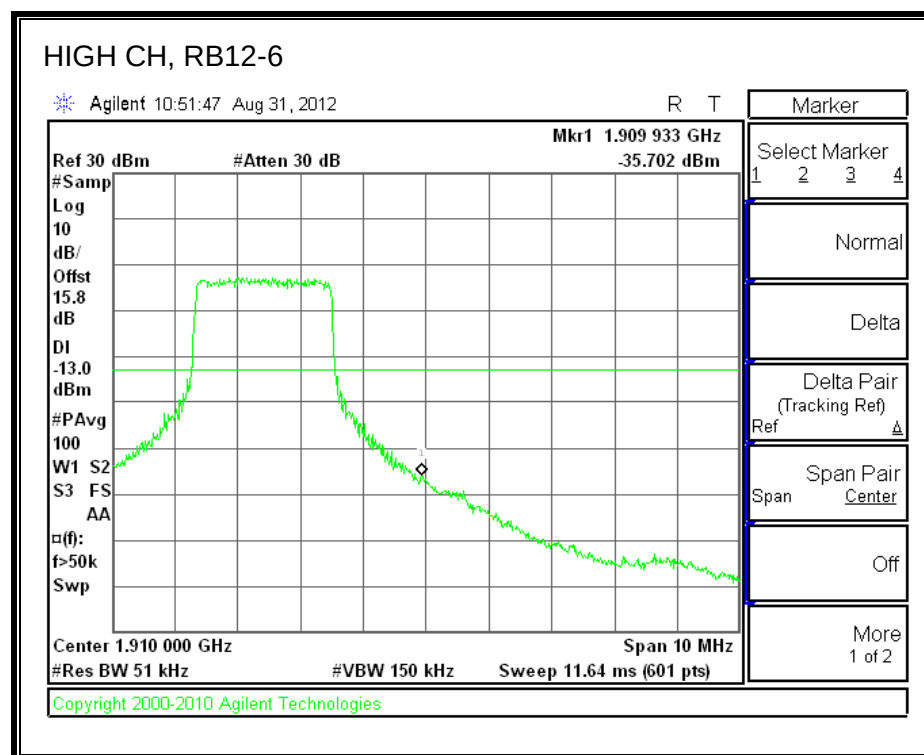
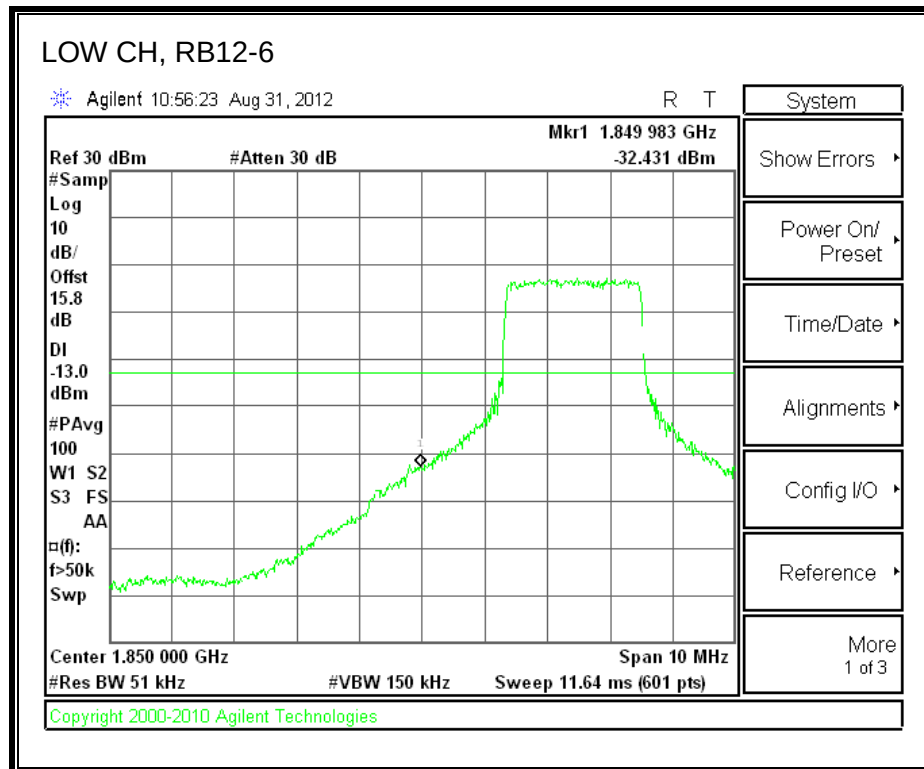


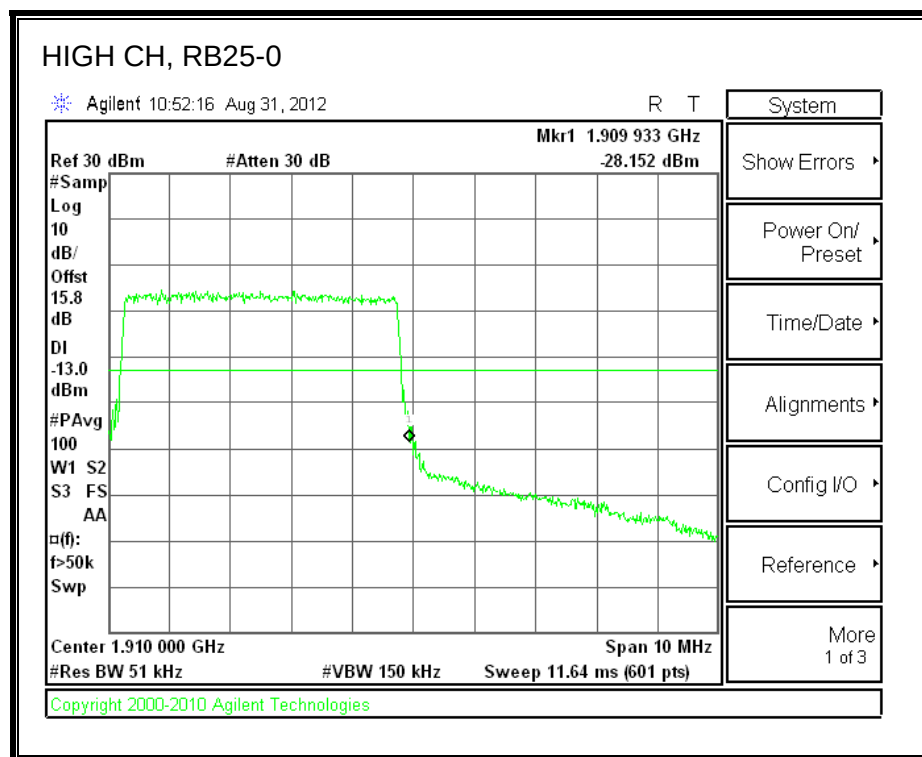
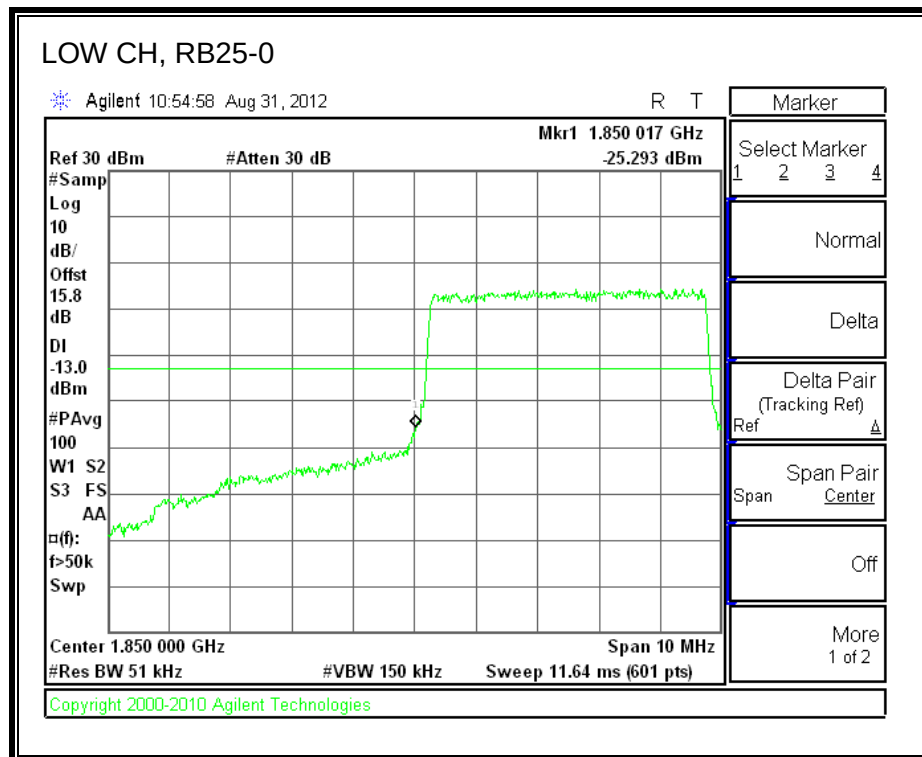


LTE QPSK Band 2 (5 MHz BANDWIDTH)

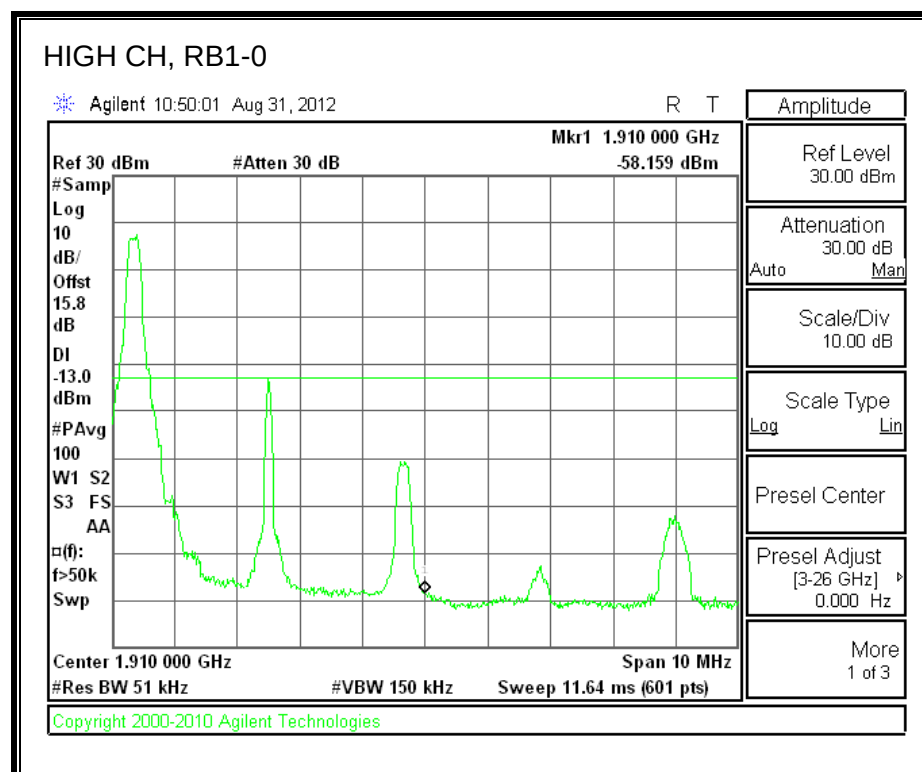
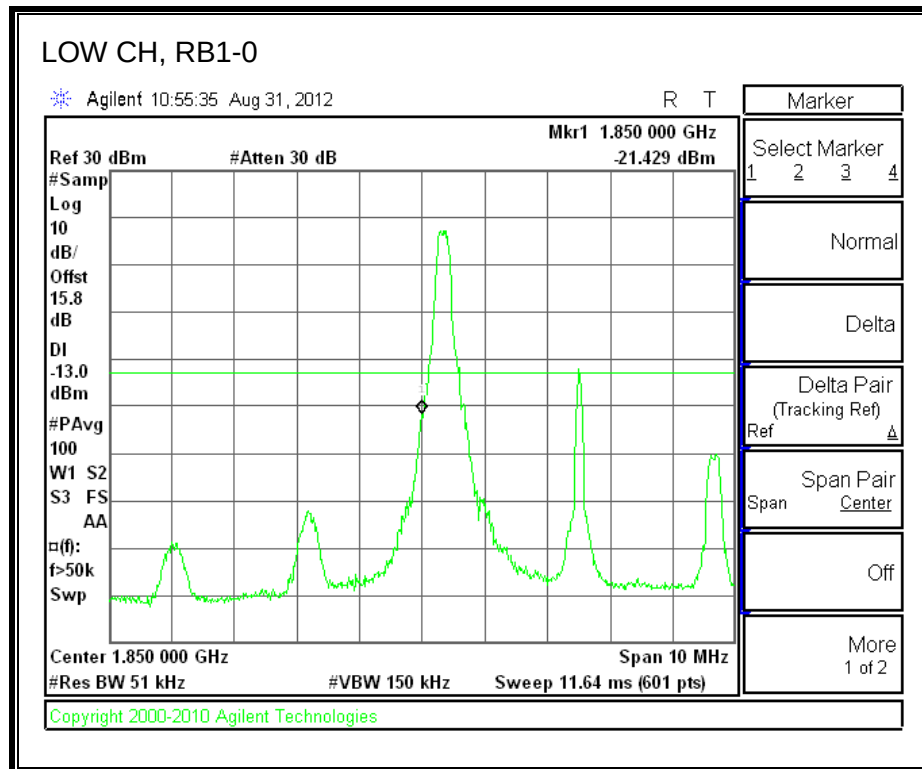


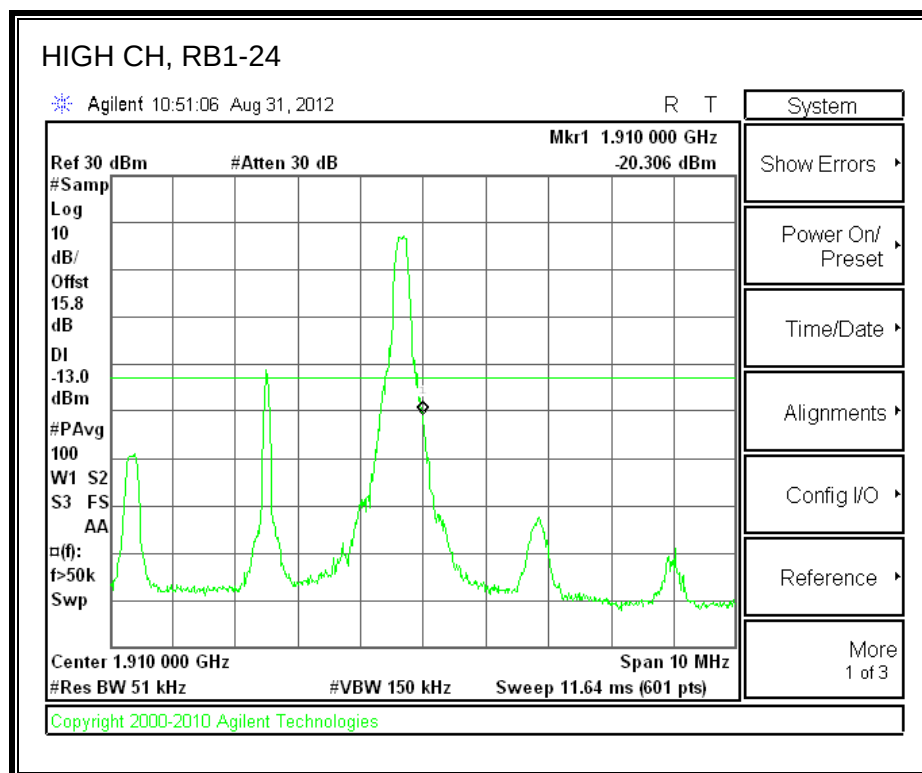
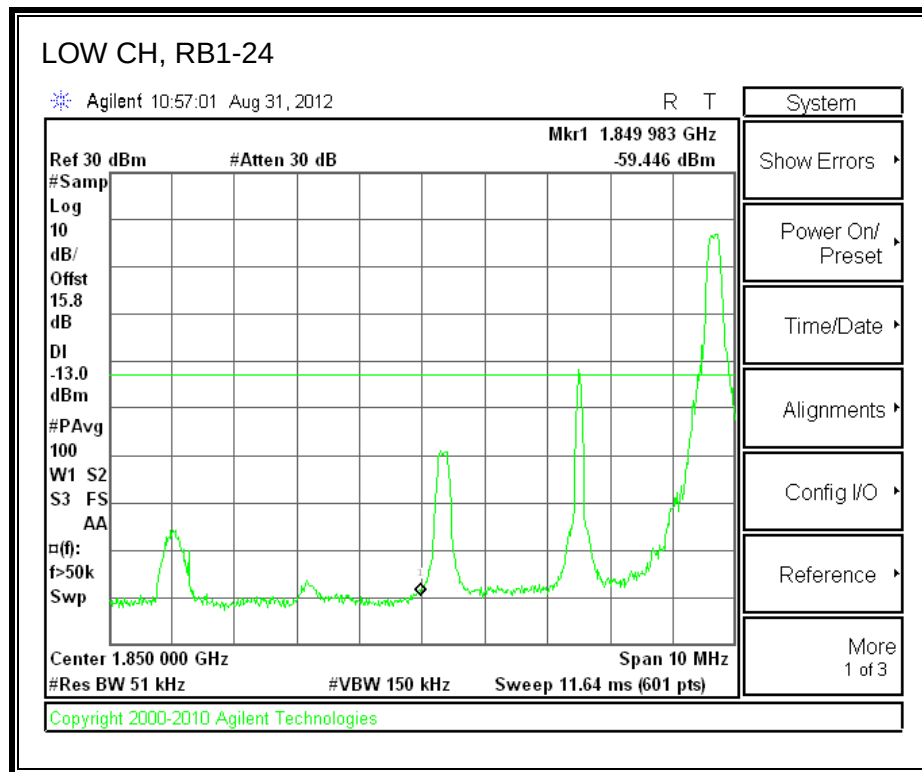


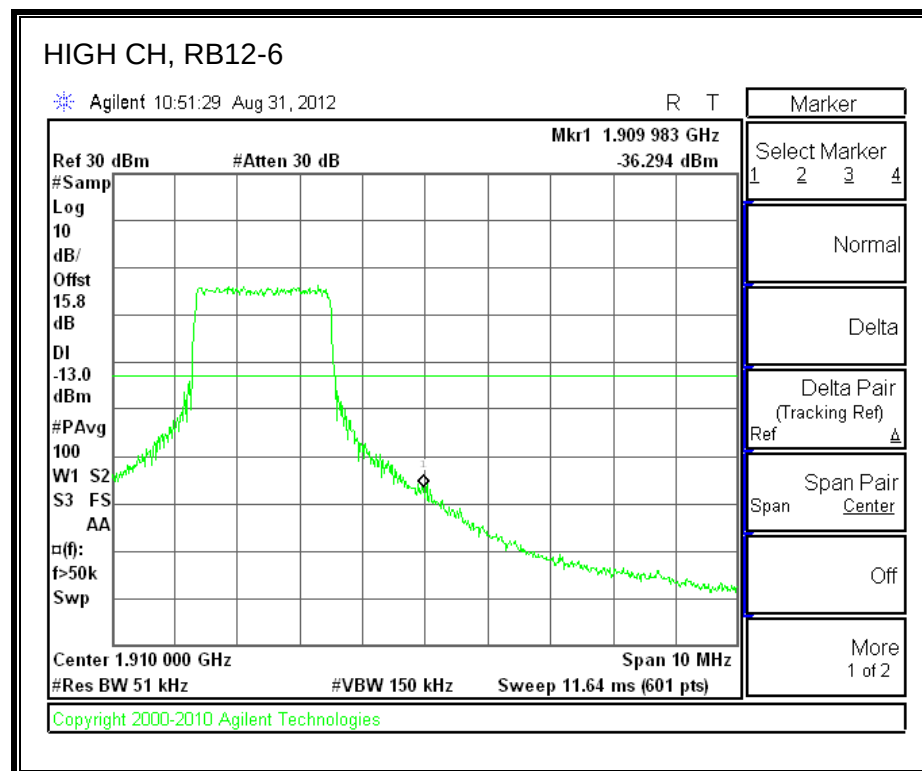
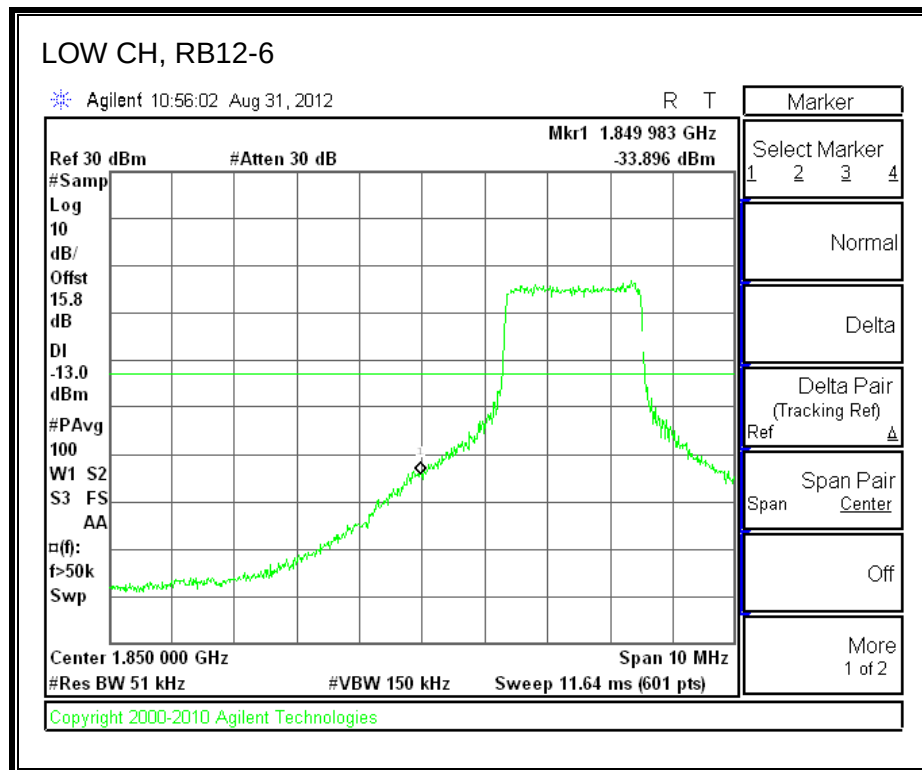


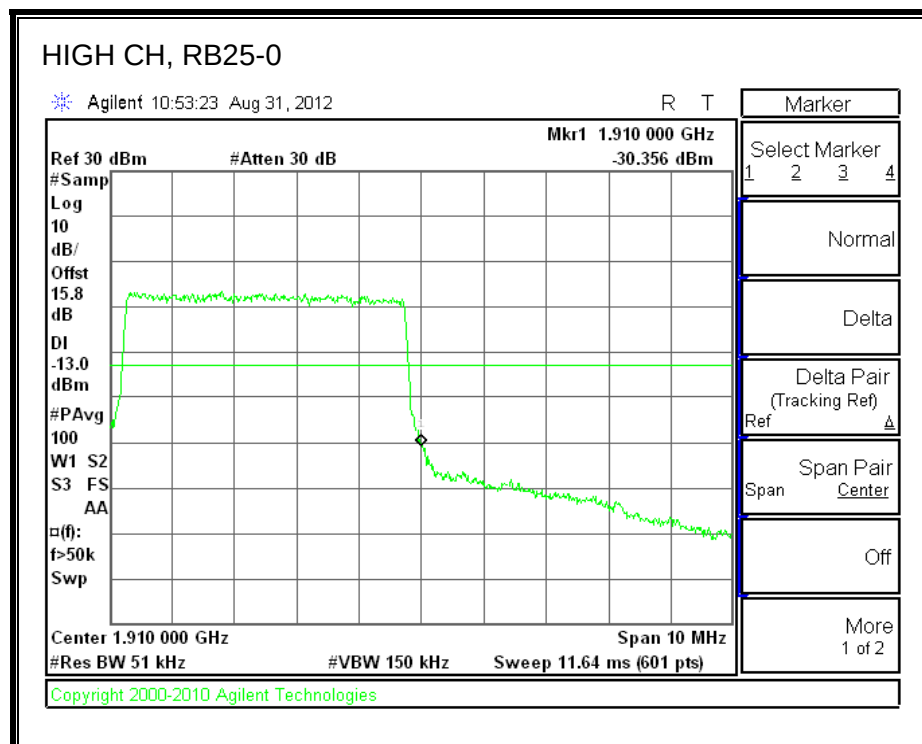
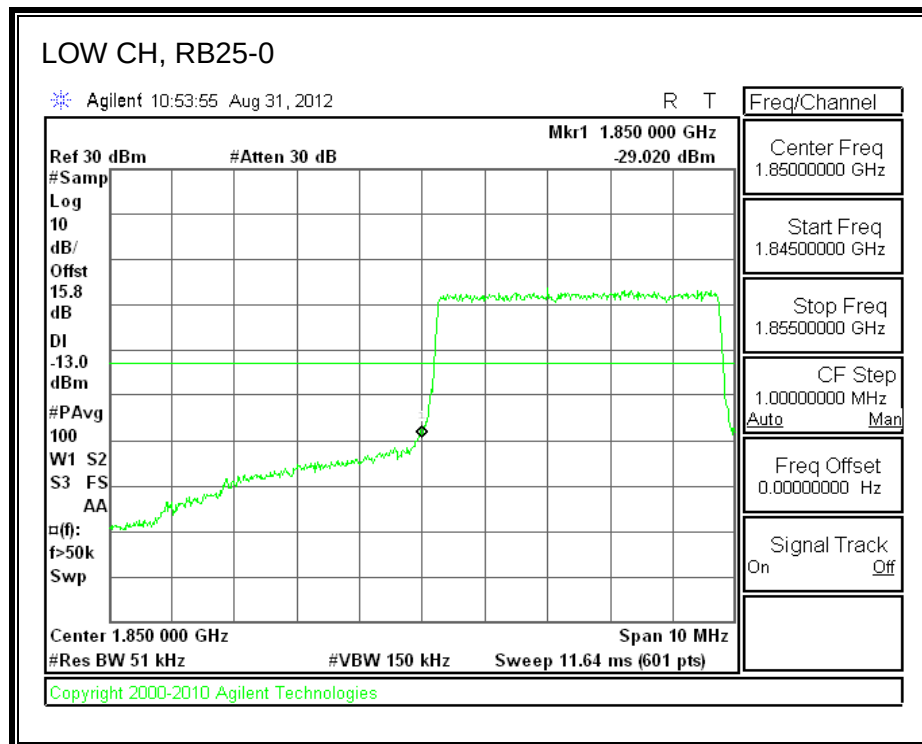


LTE 16QAM Band 2 (5 MHz BANDWIDTH)

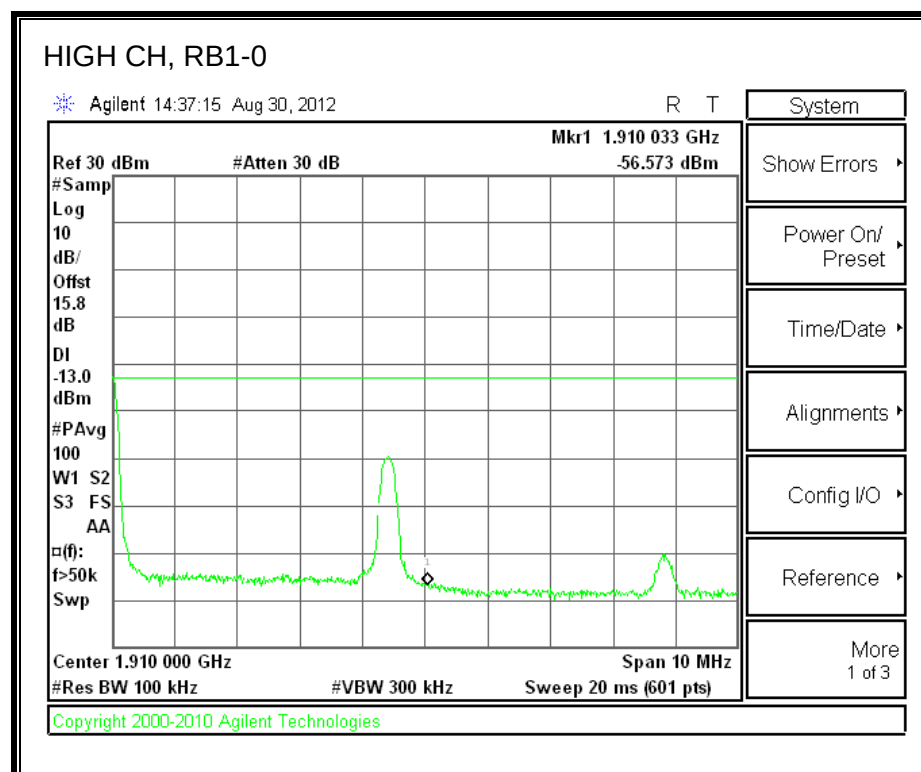
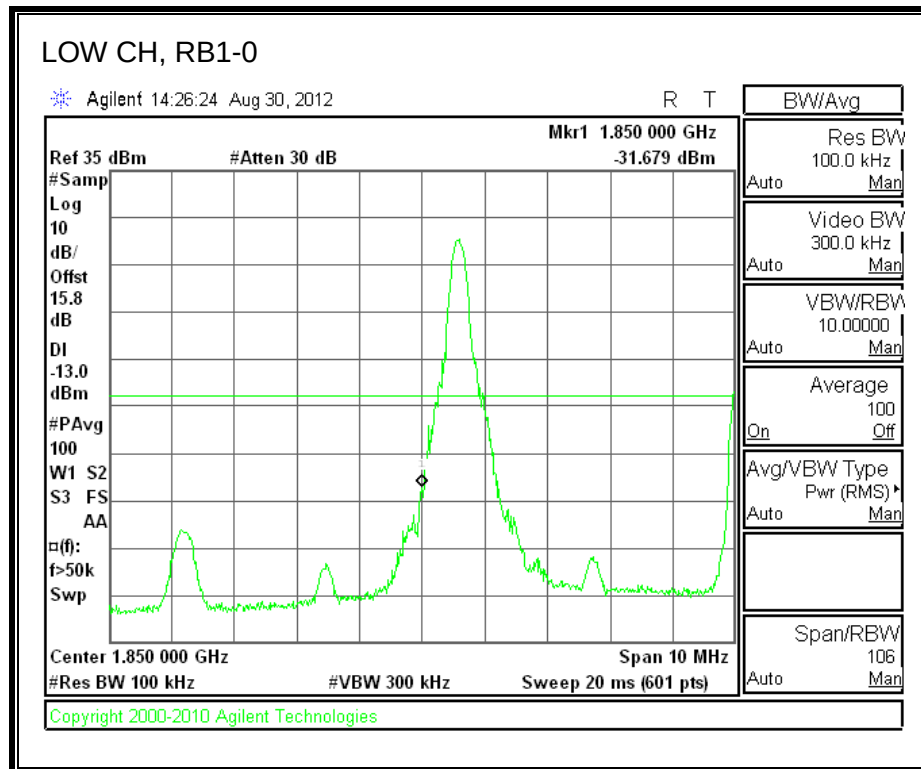


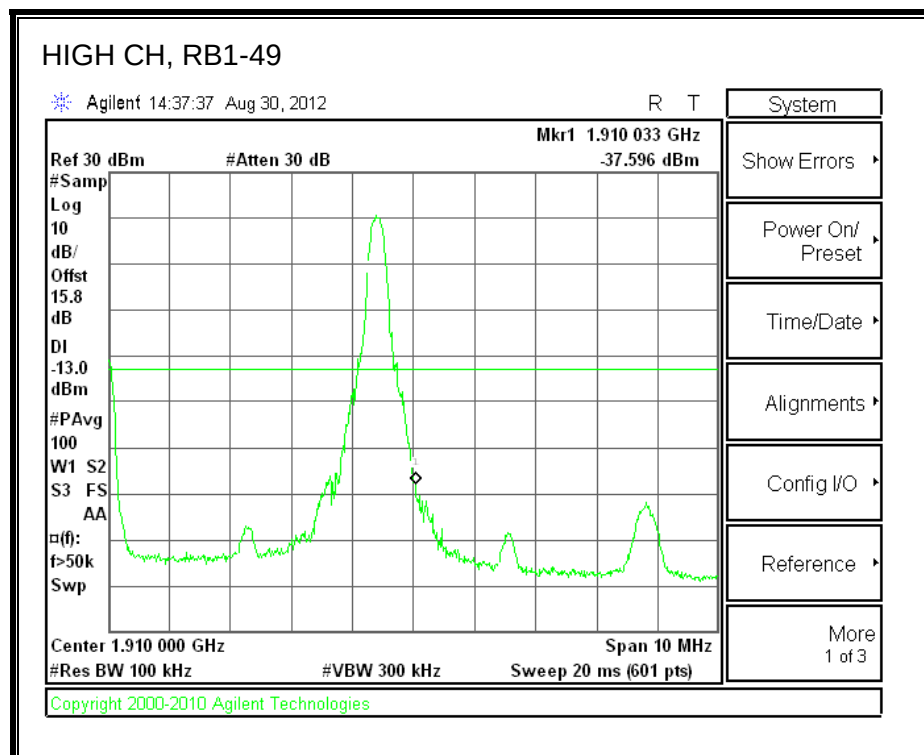
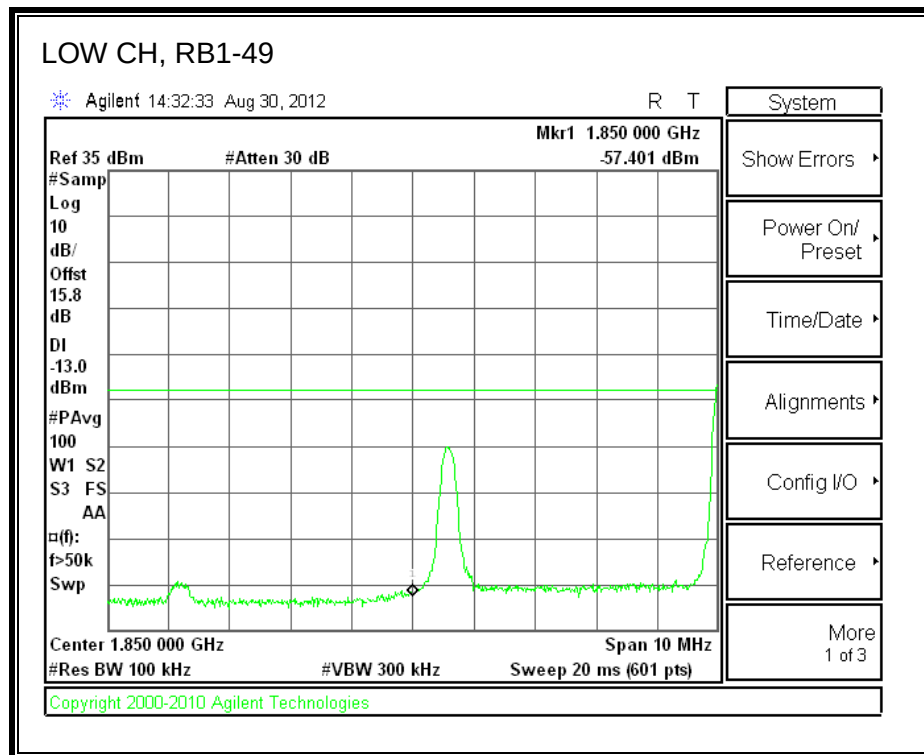


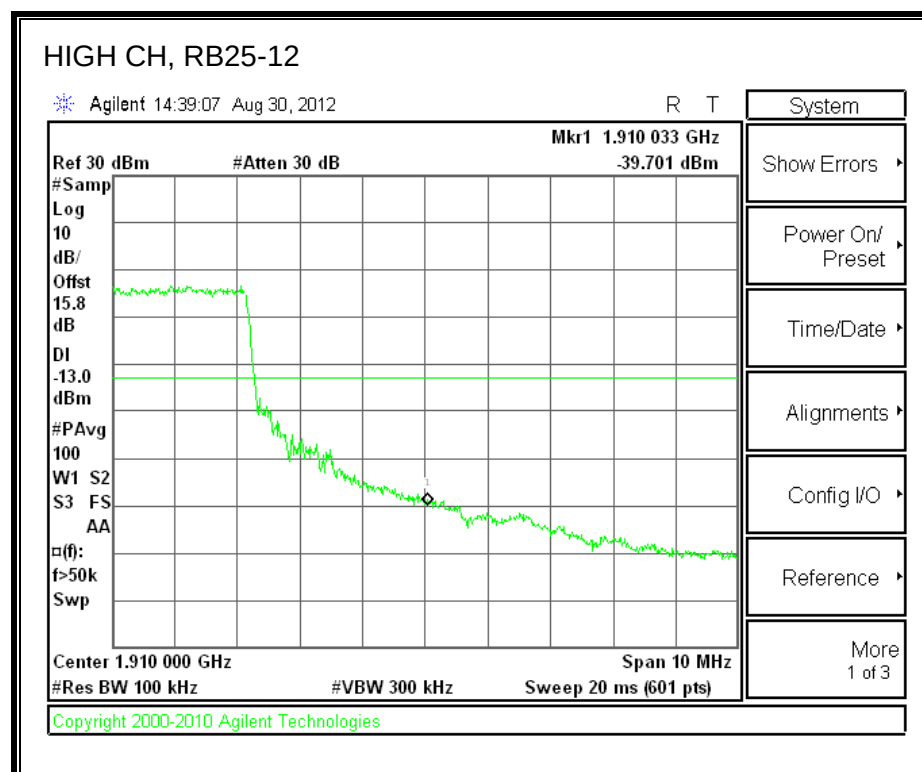
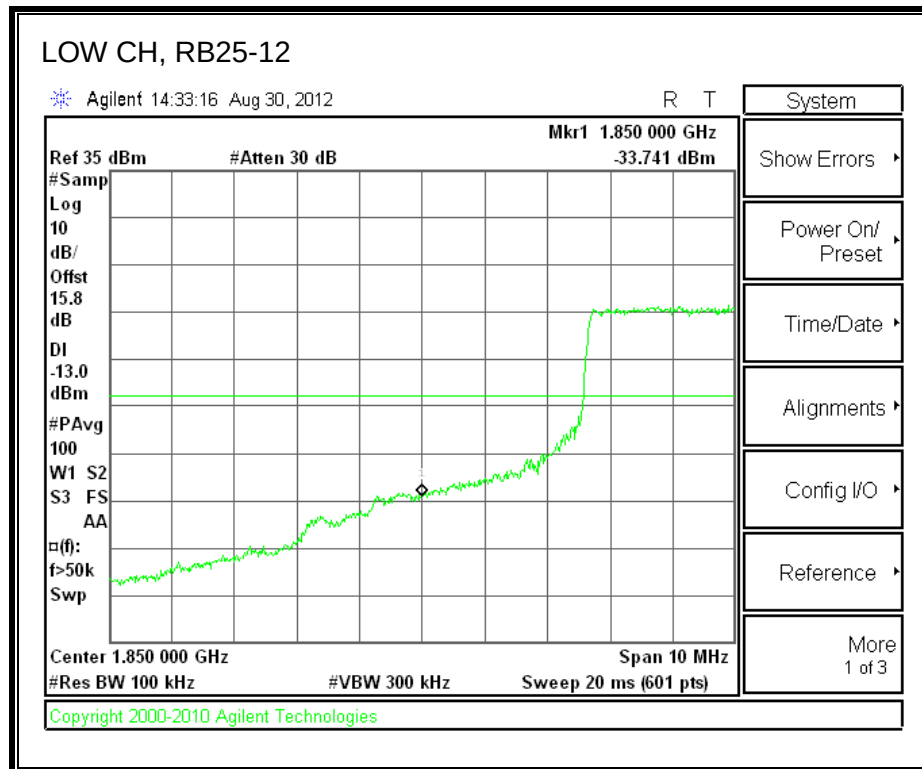


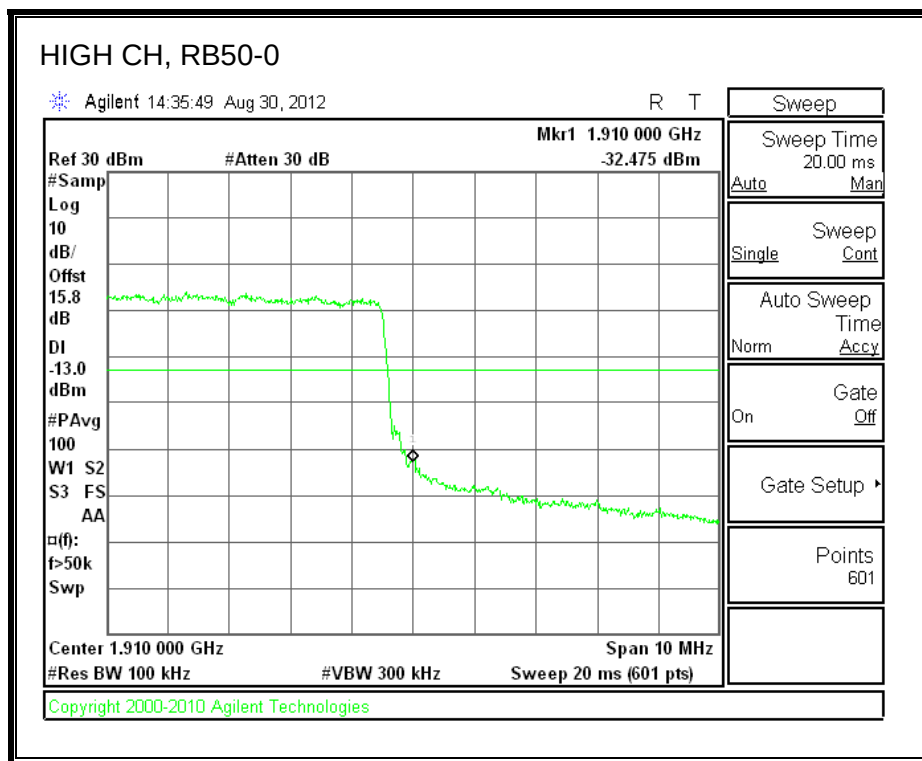
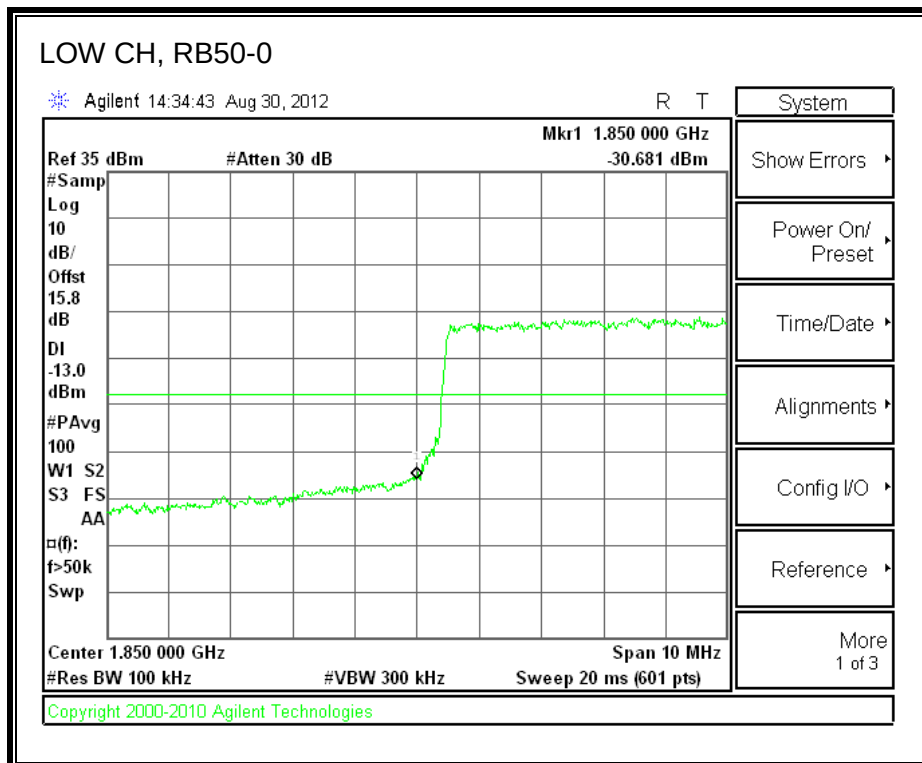


LTE QPSK Band 2 (10 MHz BANDWIDTH)

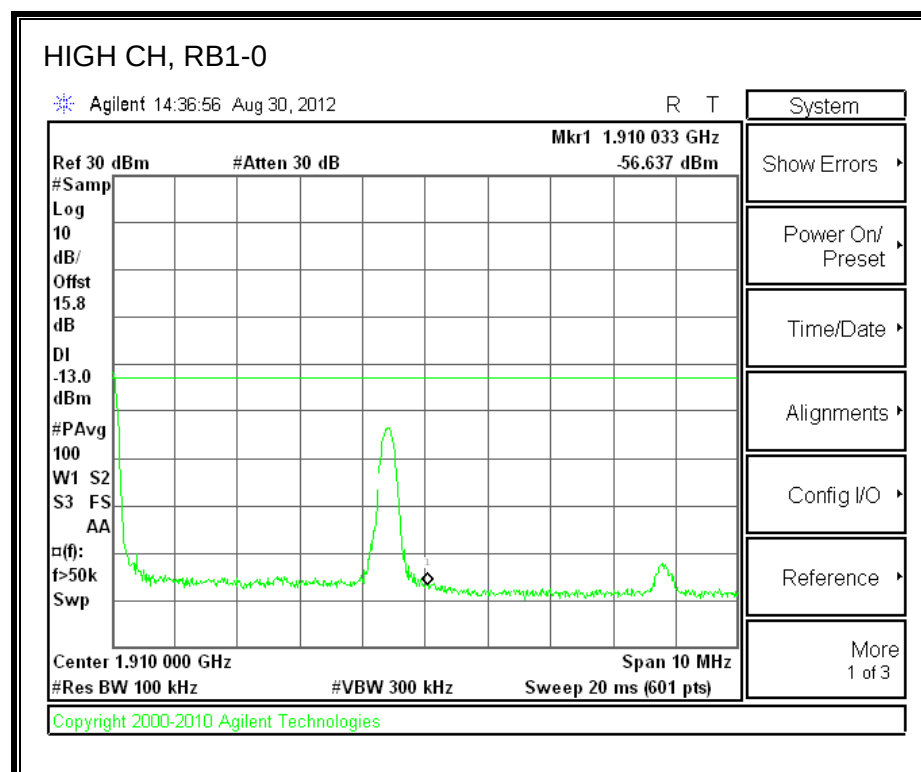
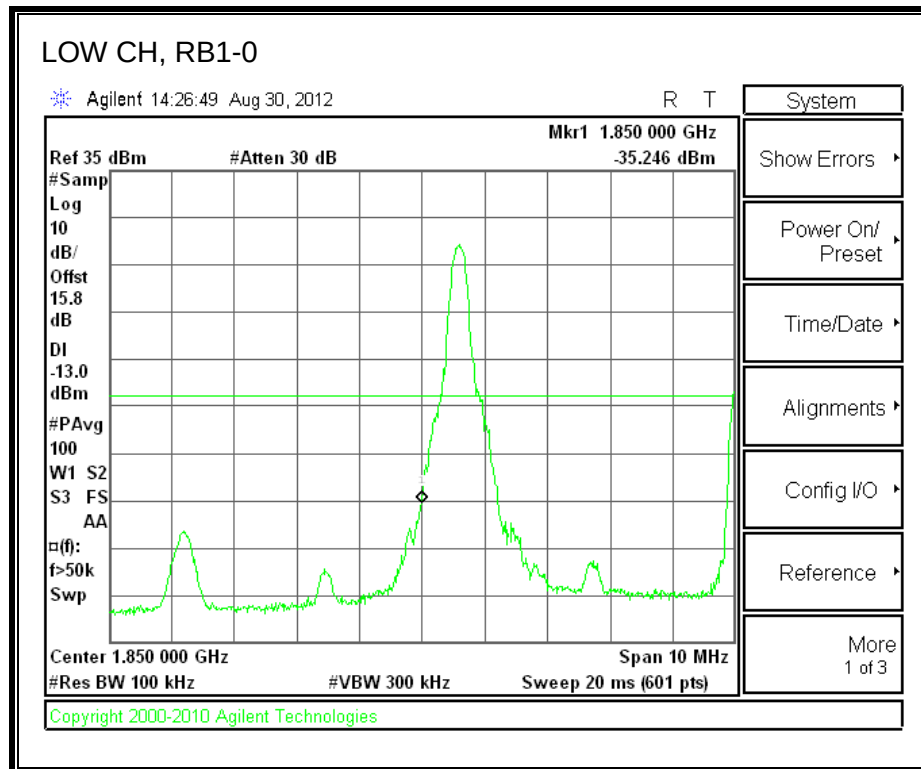


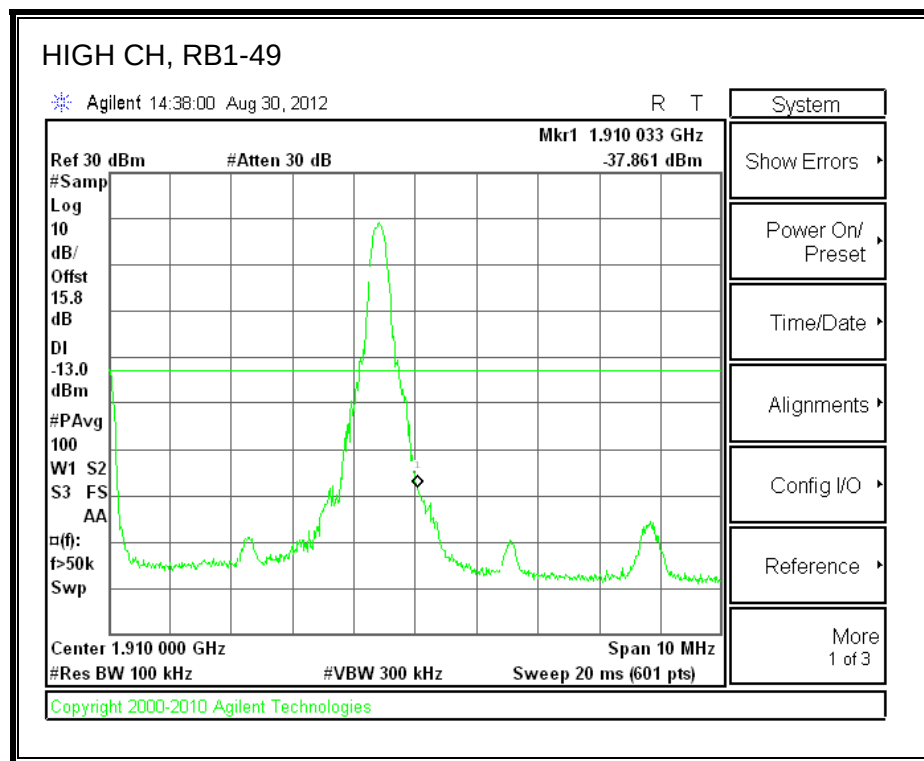
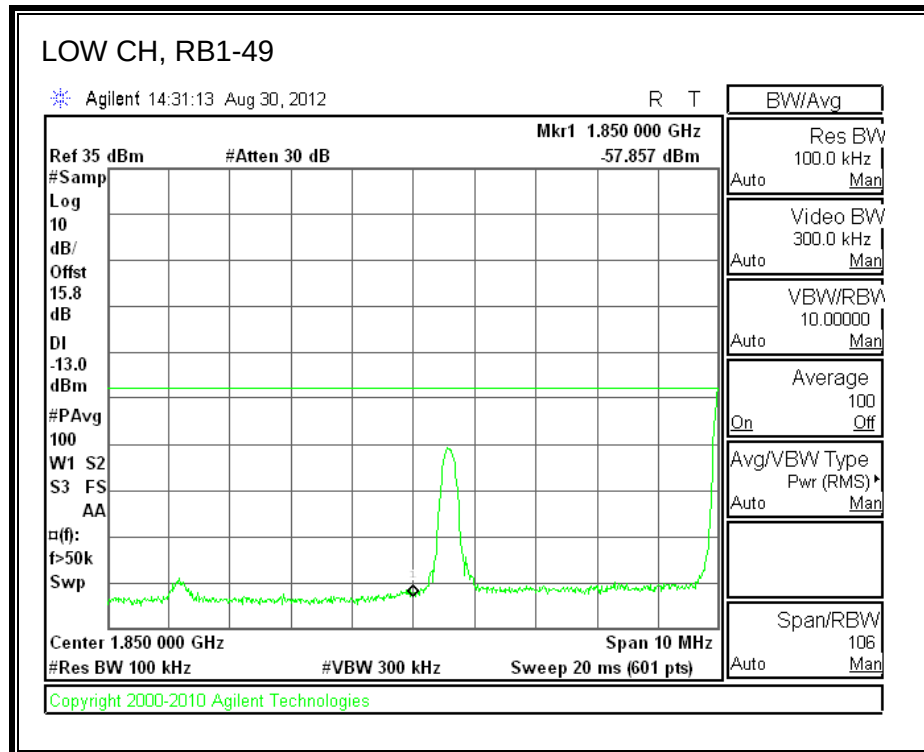


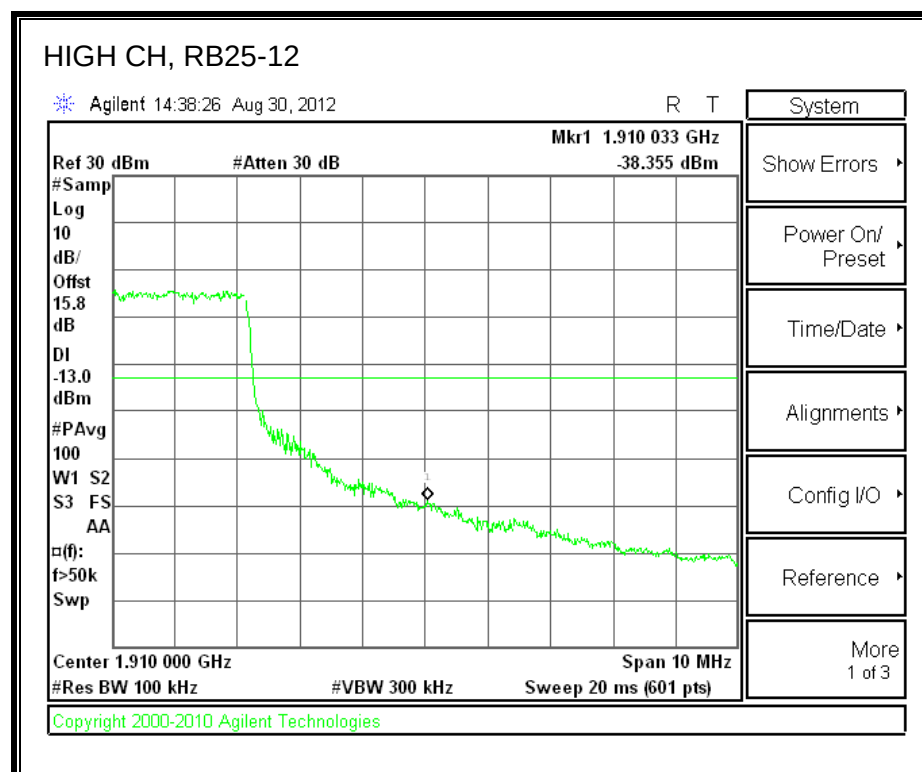
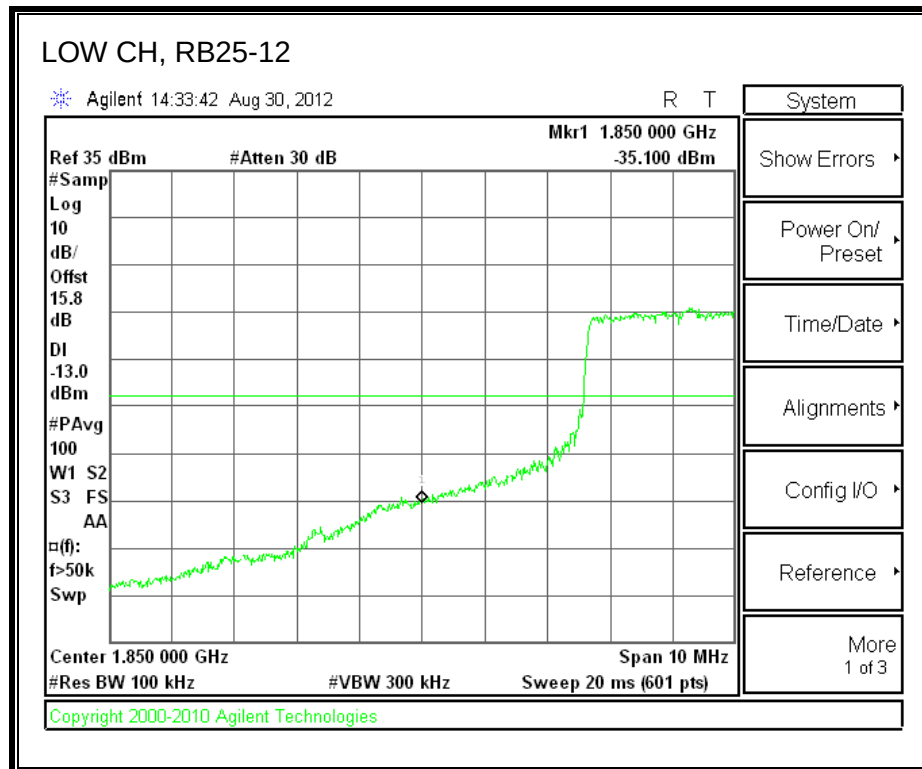


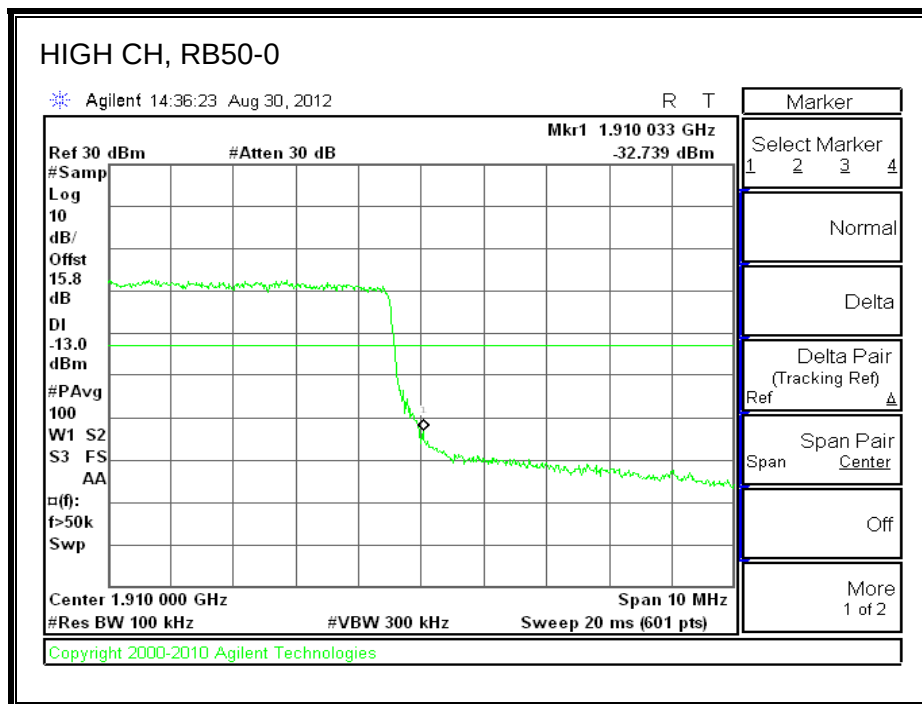
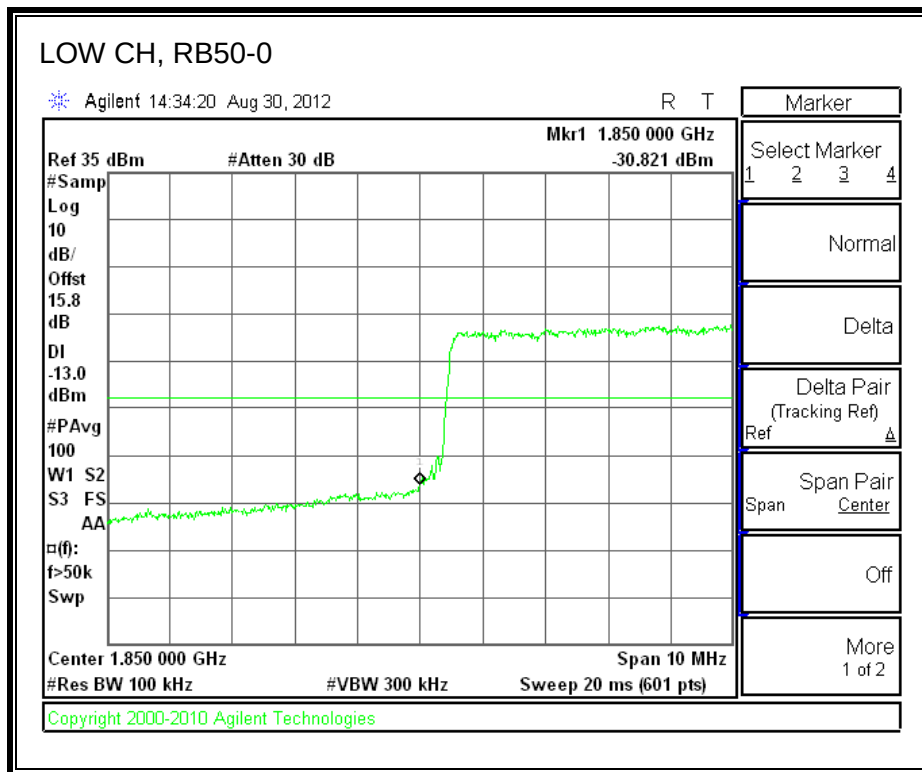


LTE 16QAM Band 2 (10 MHz BANDWIDTH)

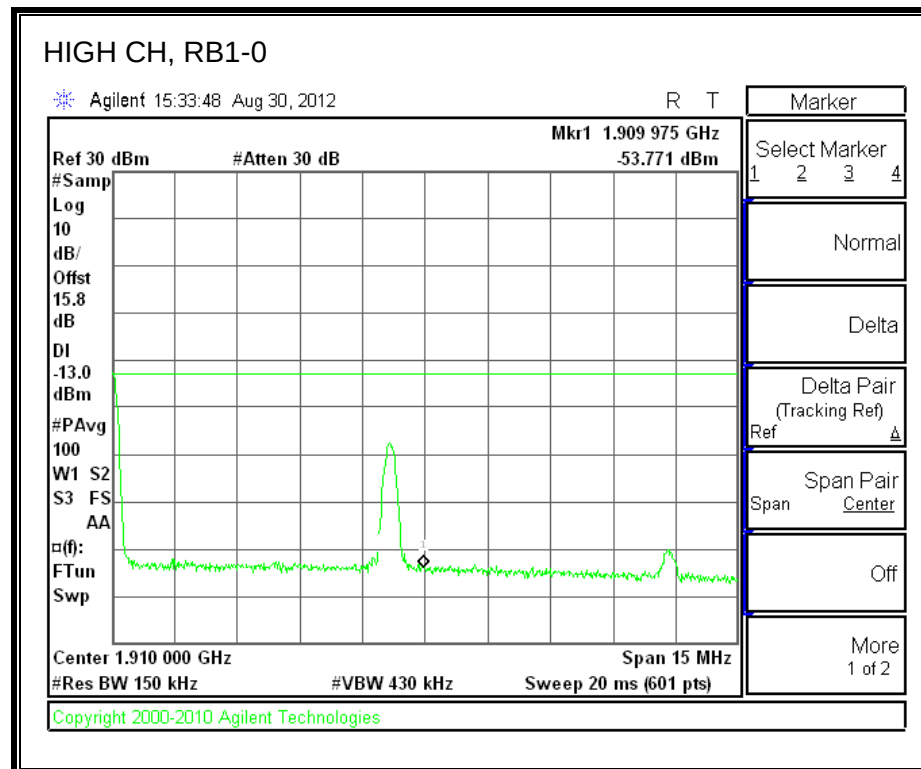
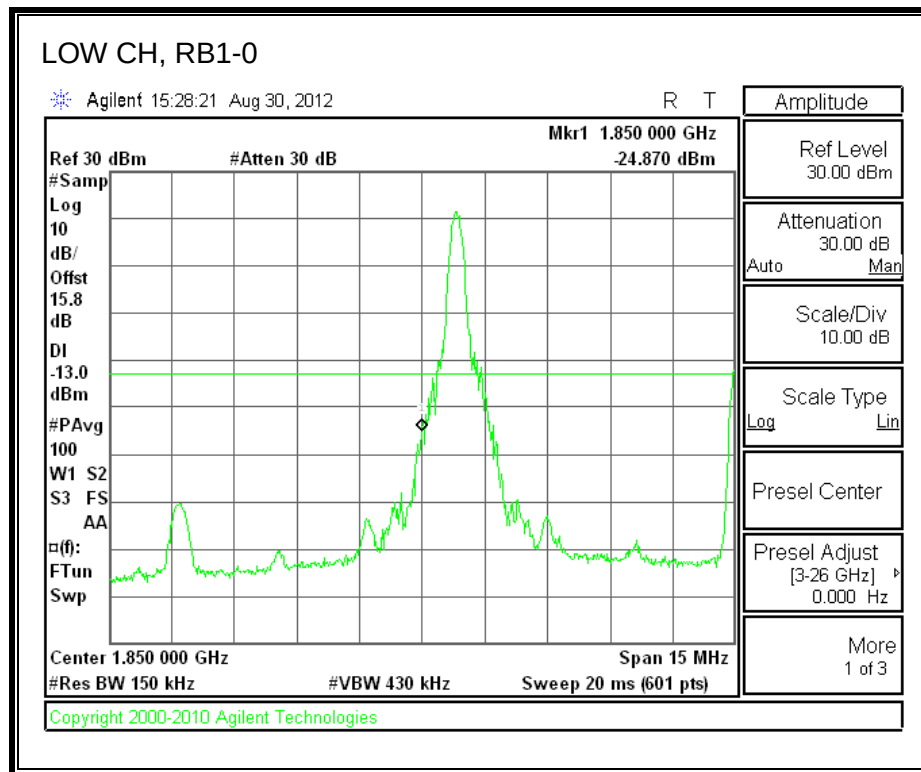


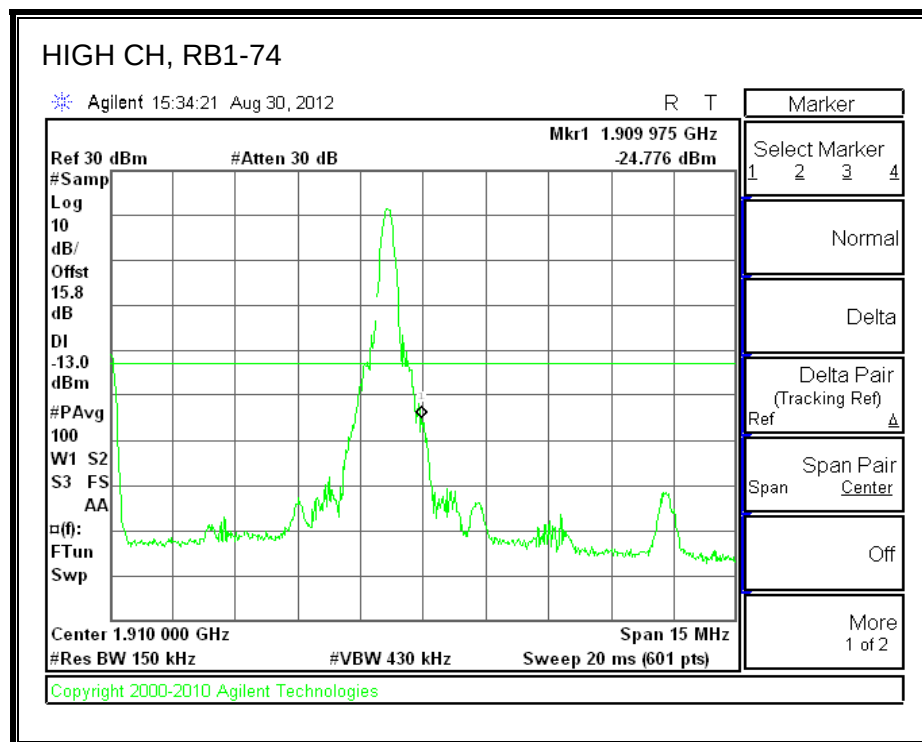
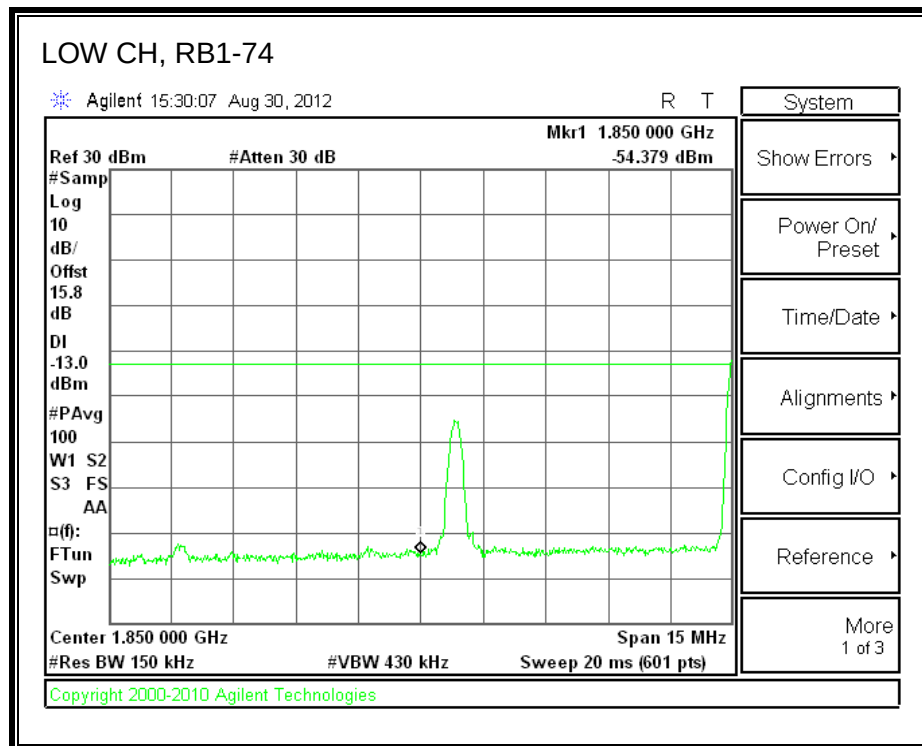


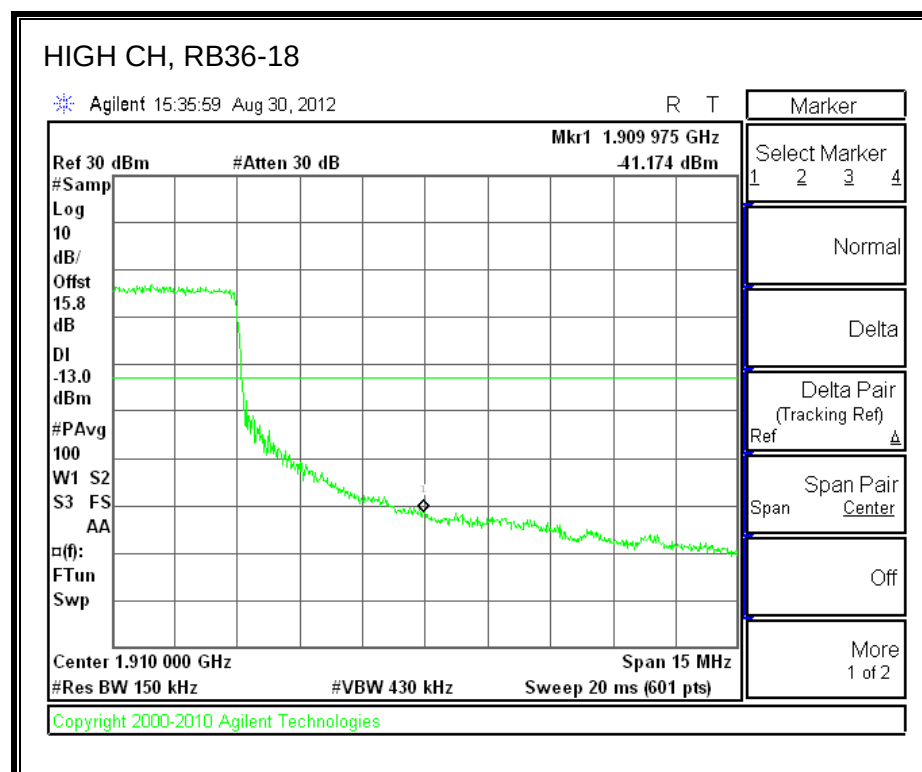
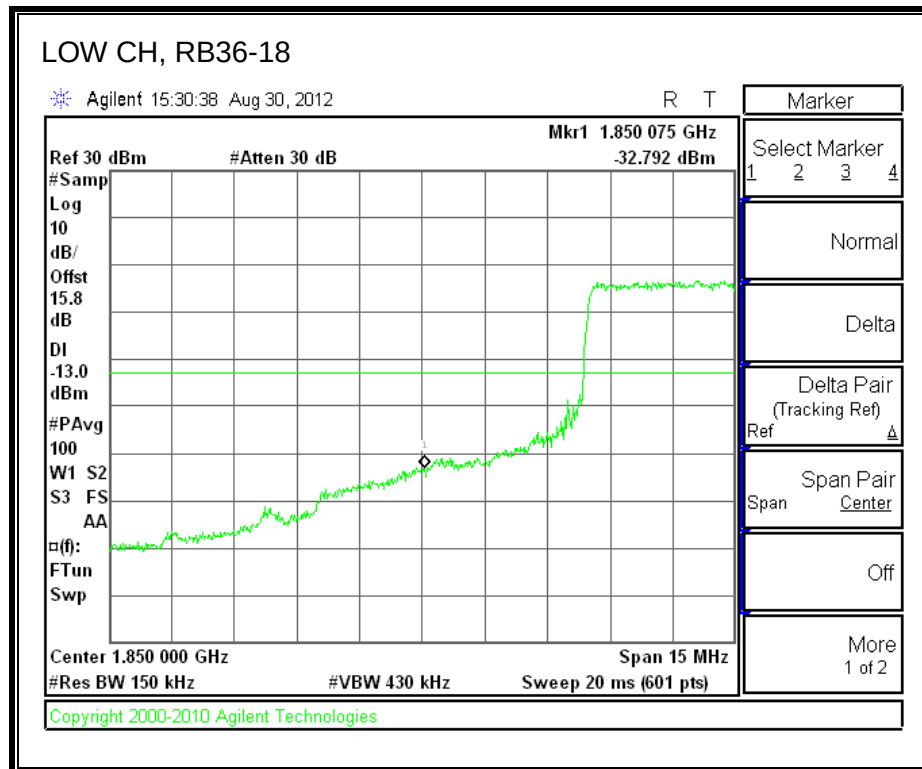


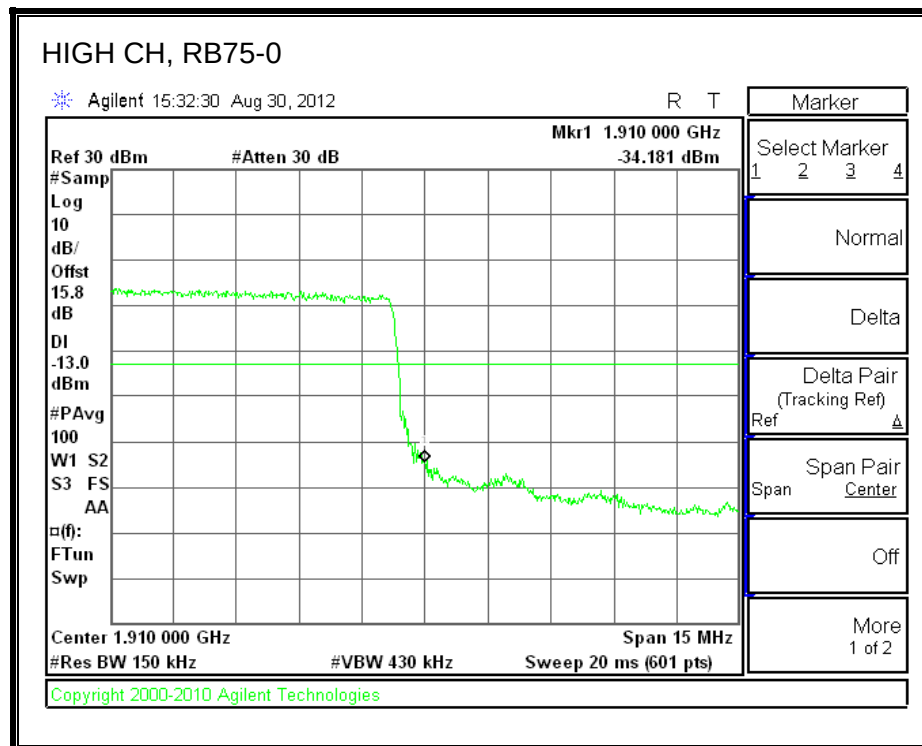
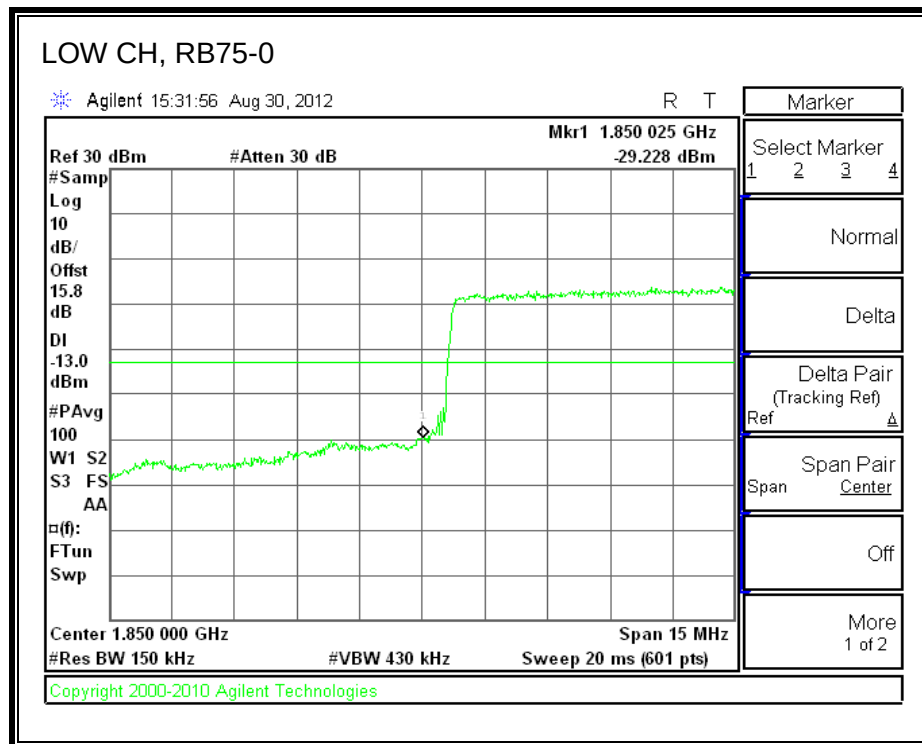


LTE QPSK Band 2 (15 MHz BANDWIDTH)

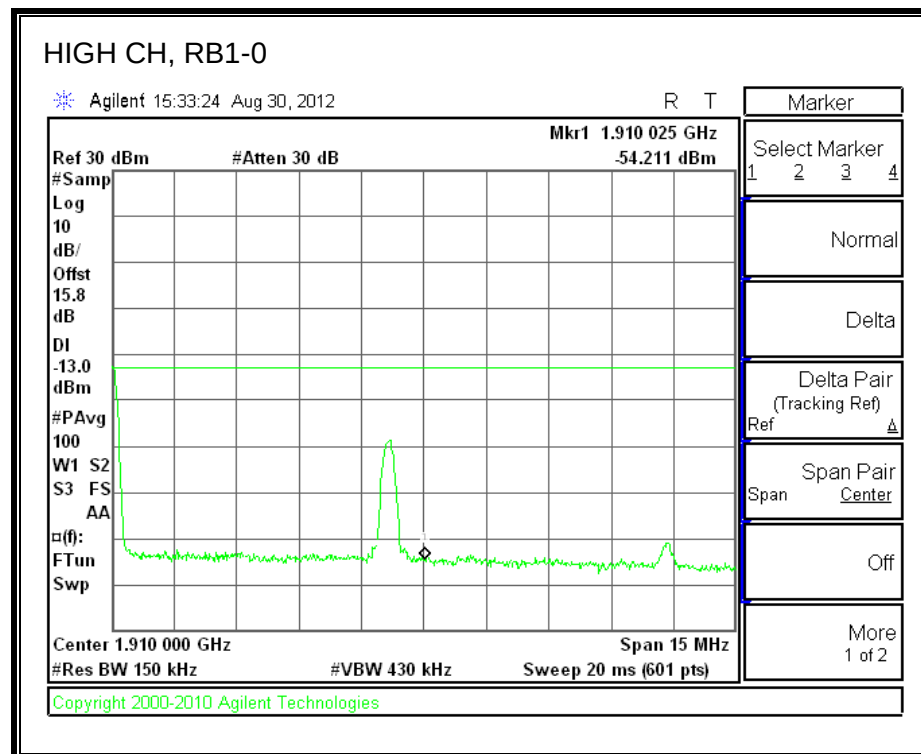
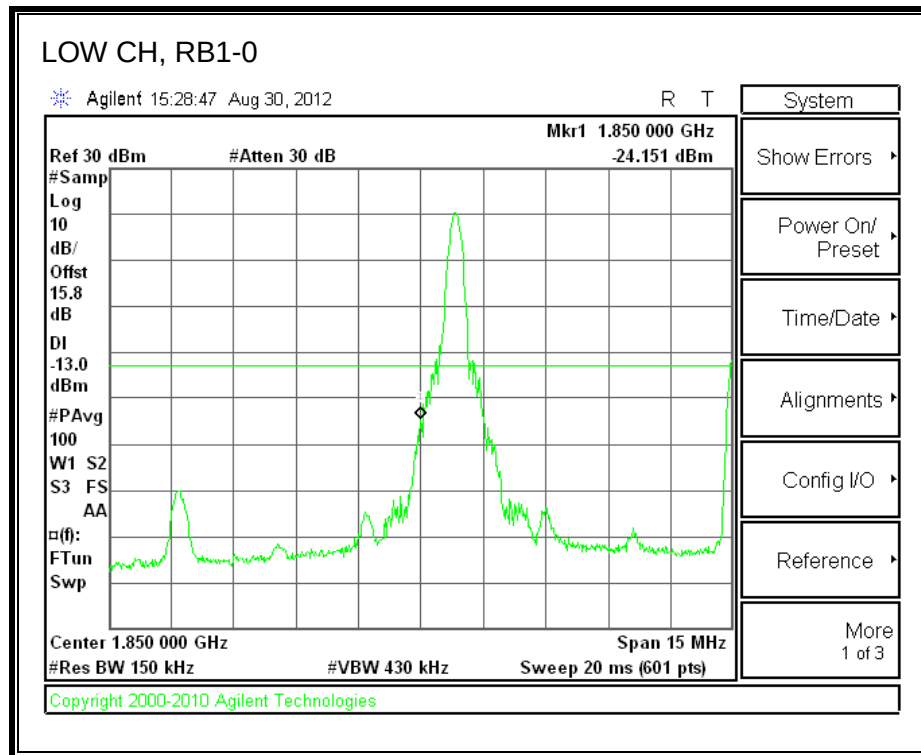


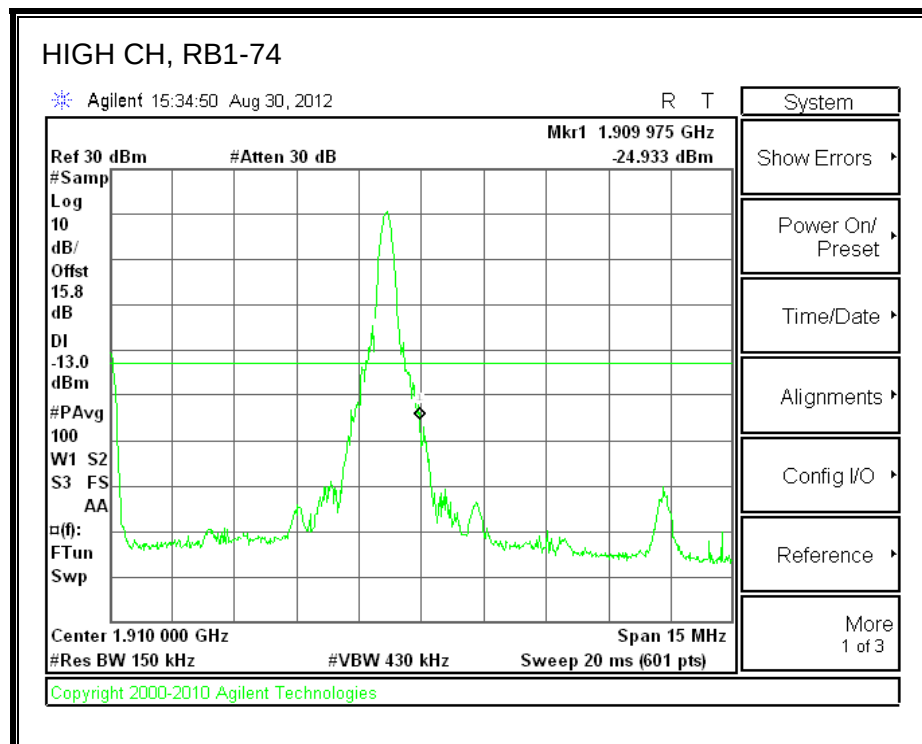
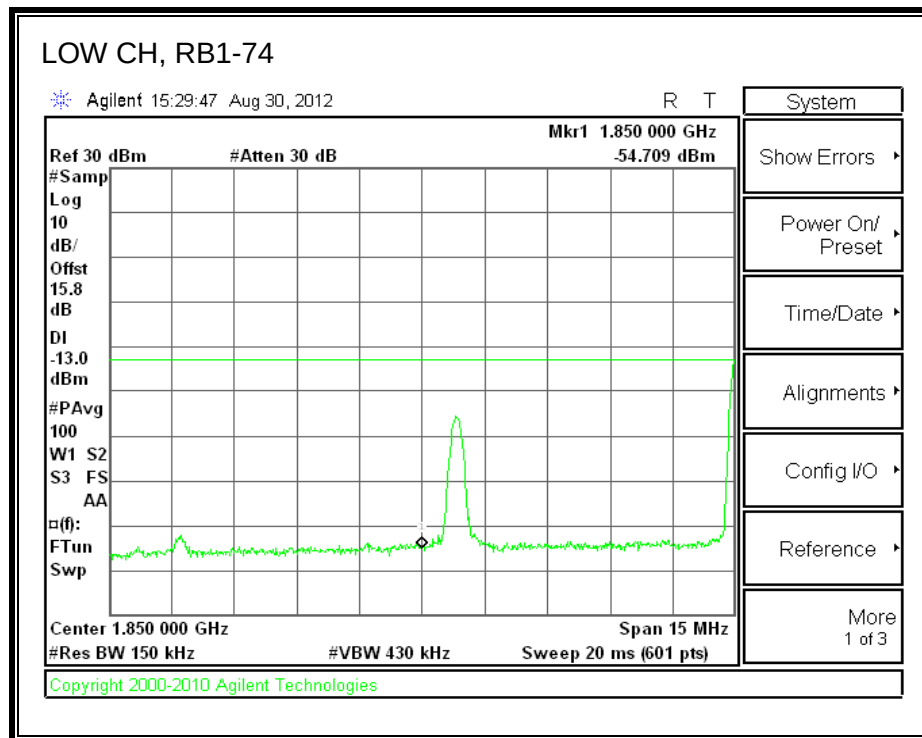


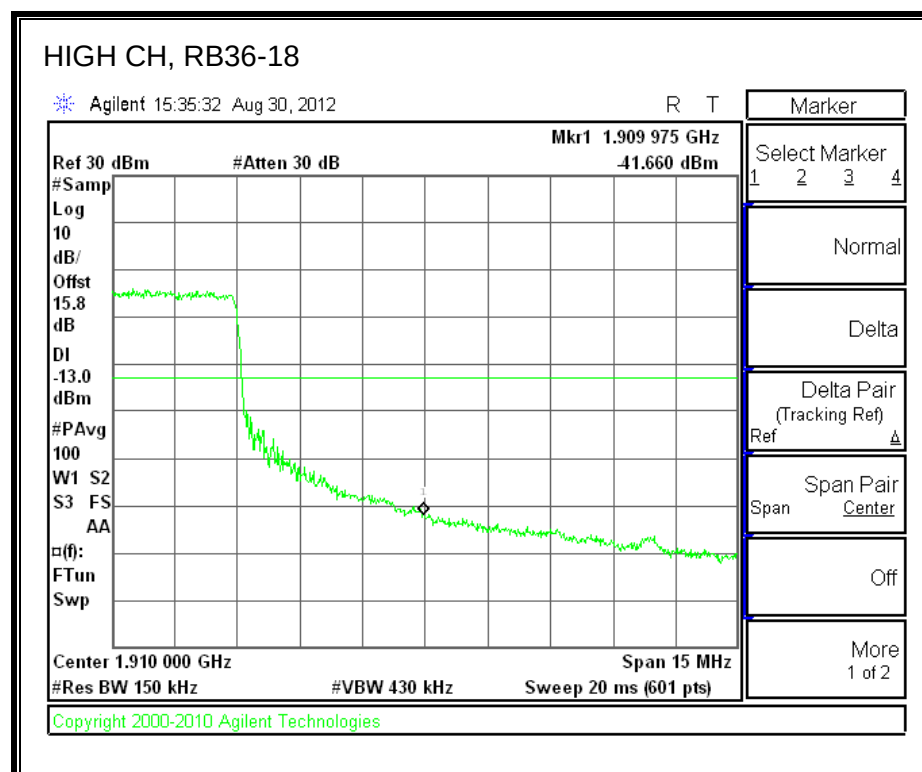
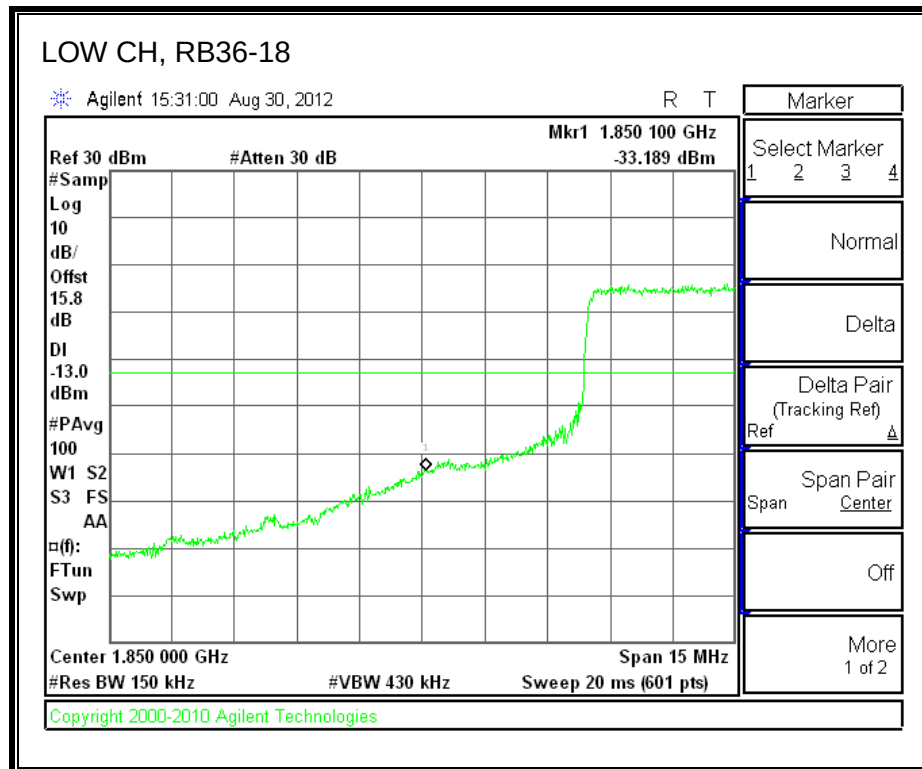


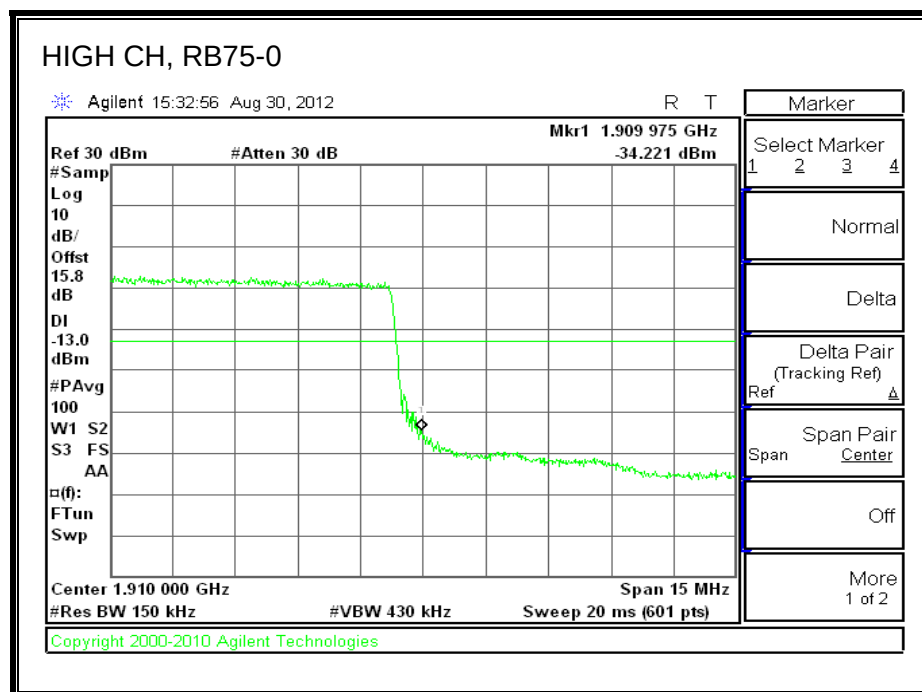
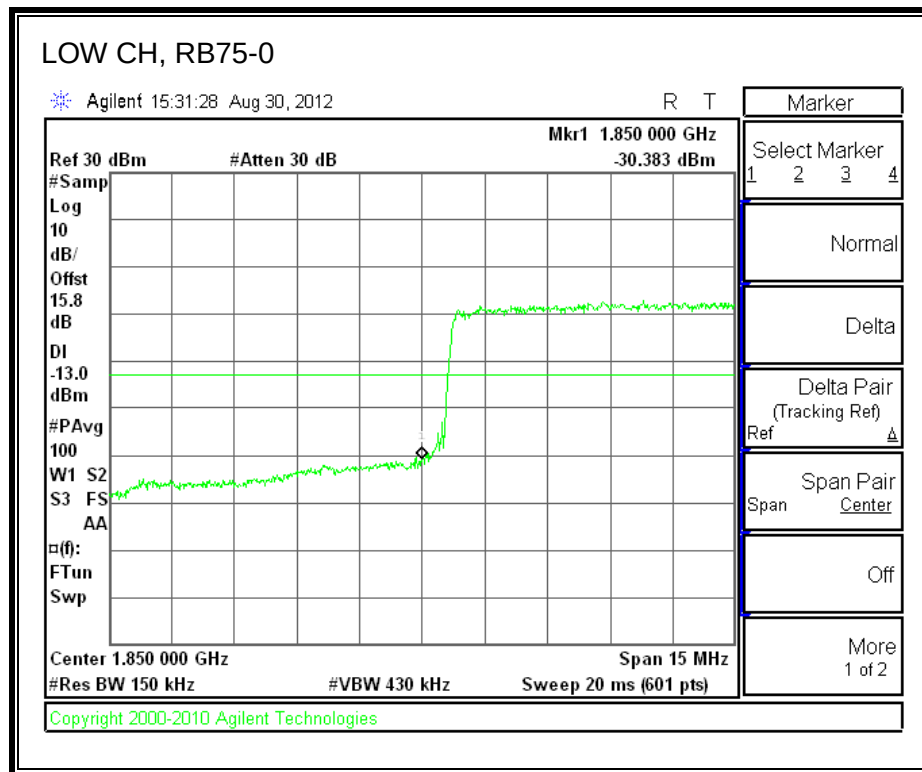


LTE 16QAM Band 2 (15 MHz BANDWIDTH)

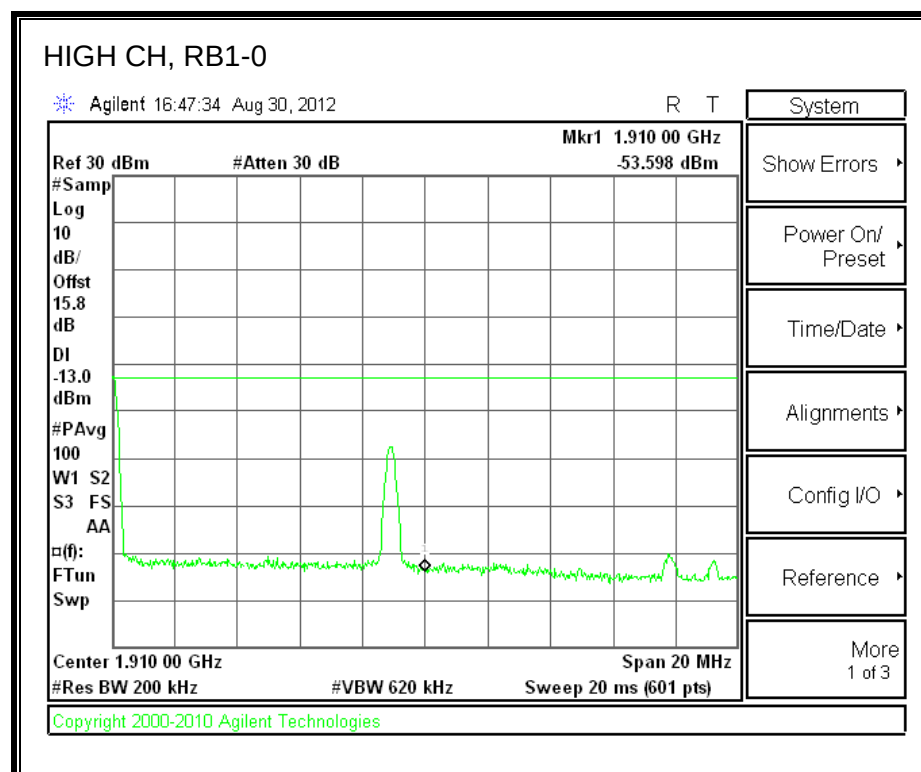
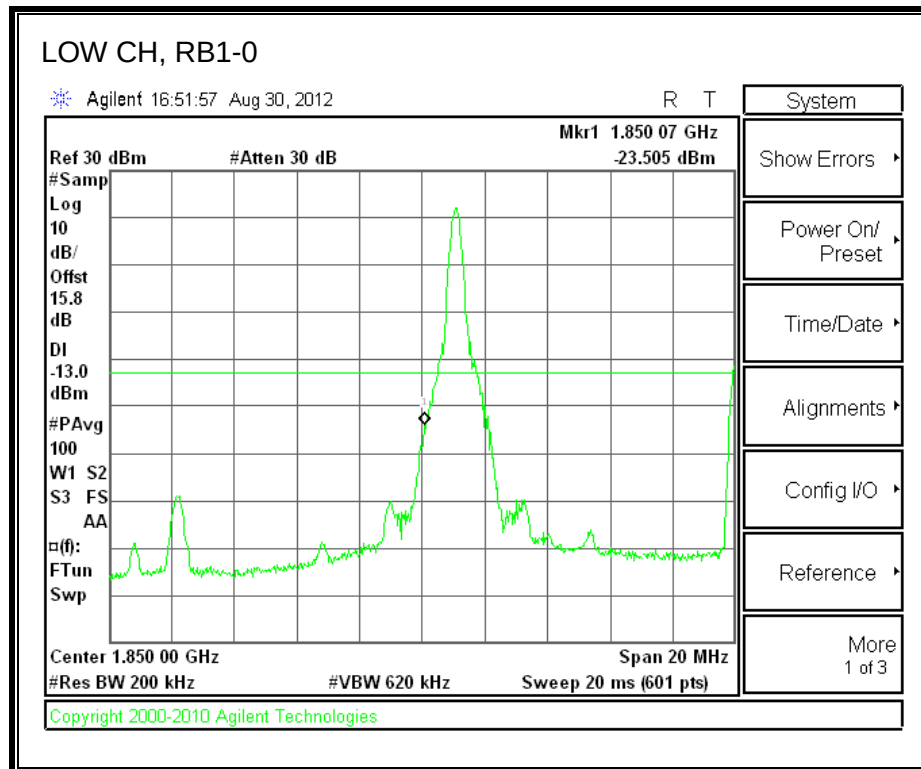


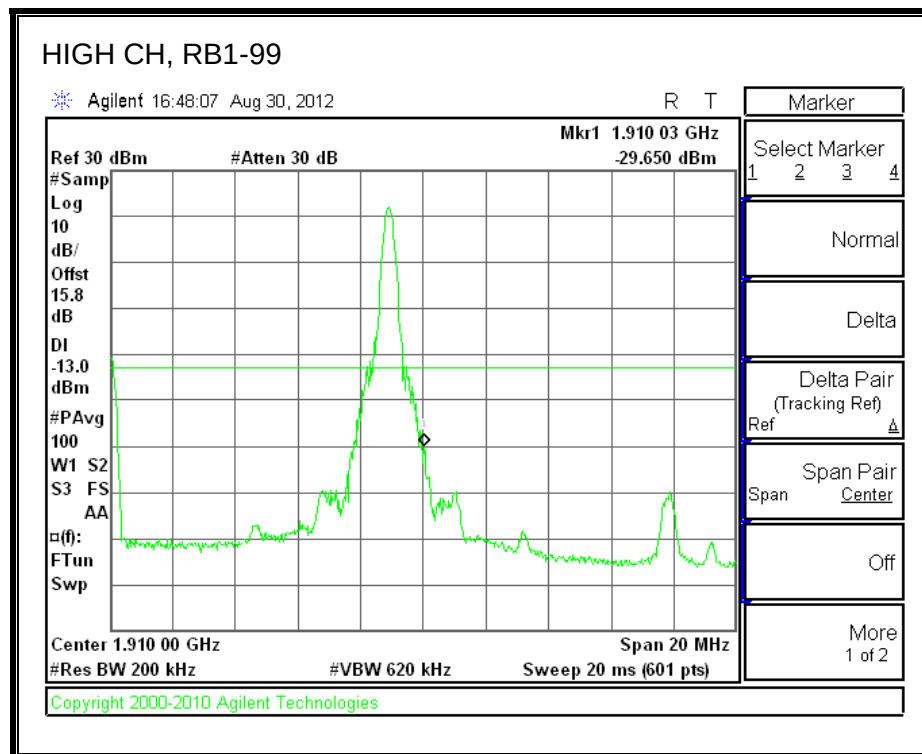
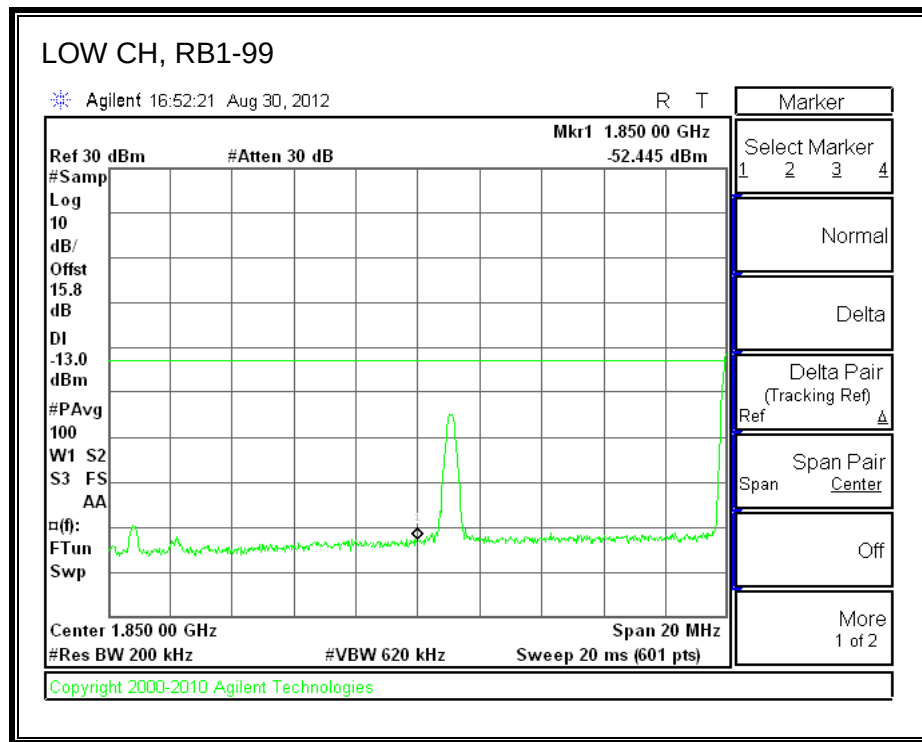


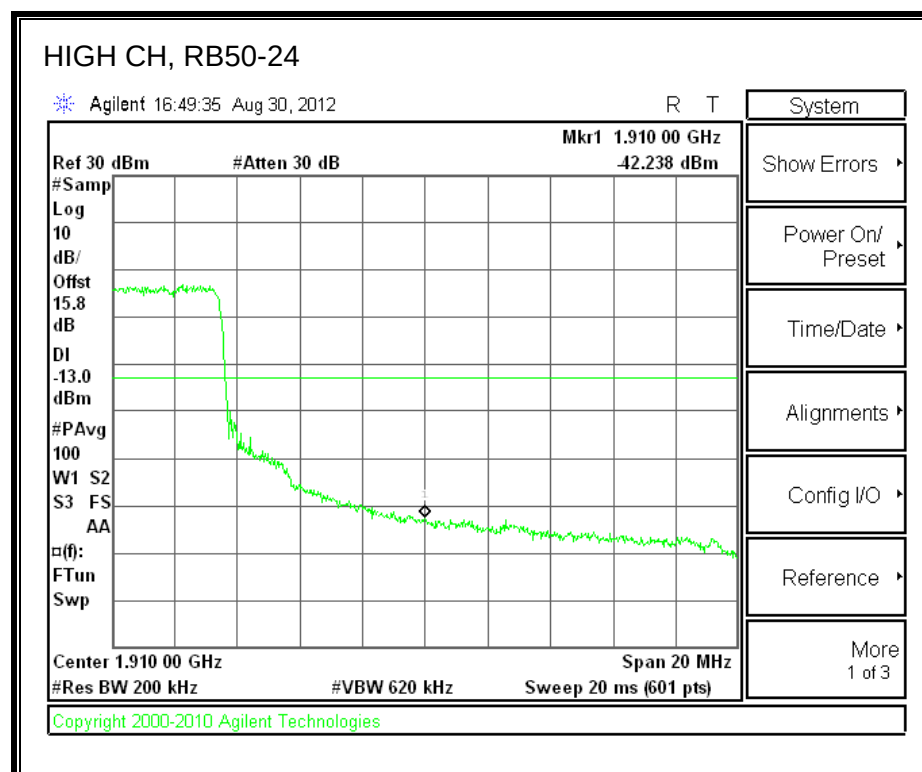
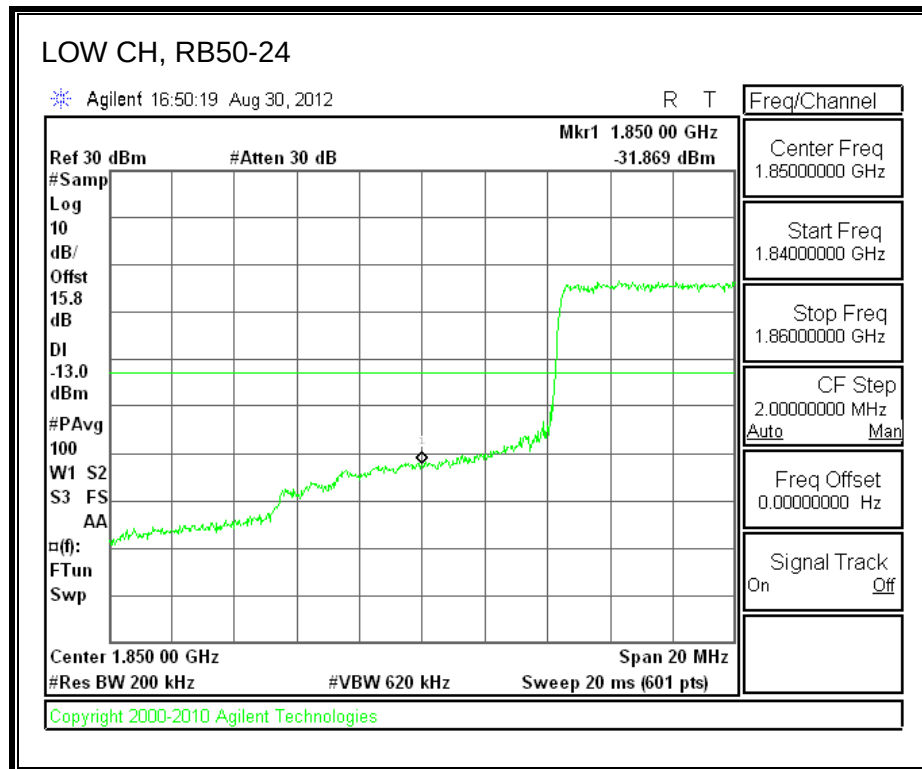


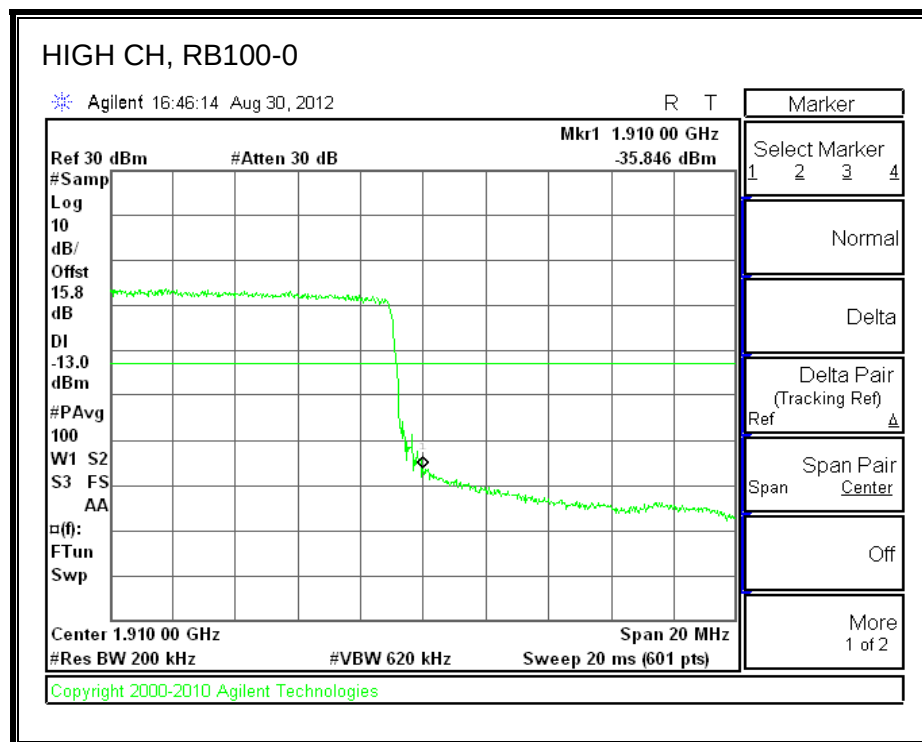
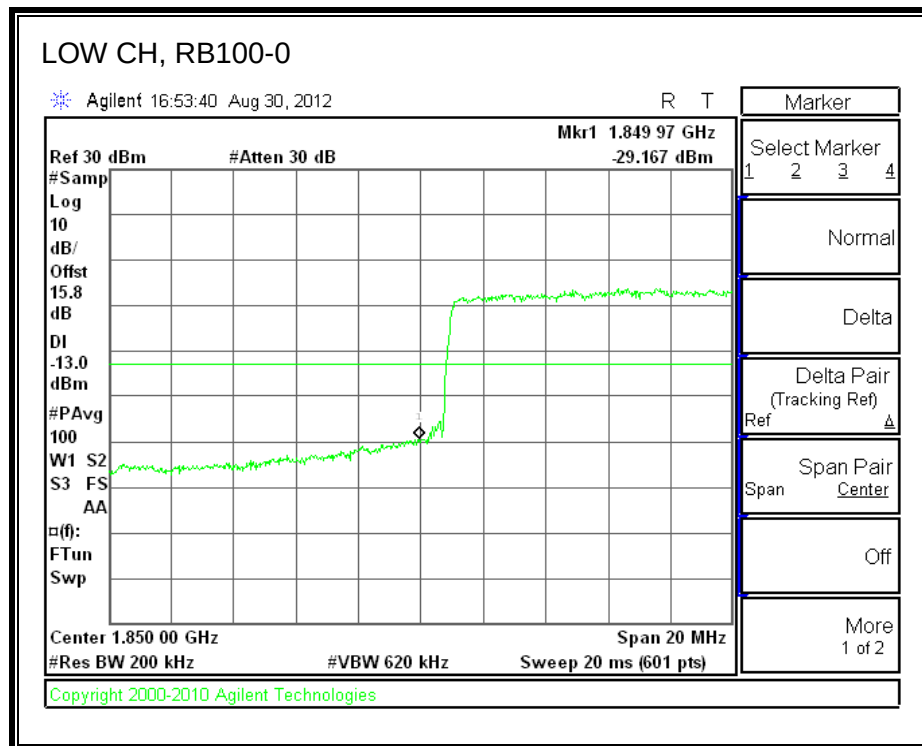


LTE QPSK Band 2 (20 MHz BANDWIDTH)

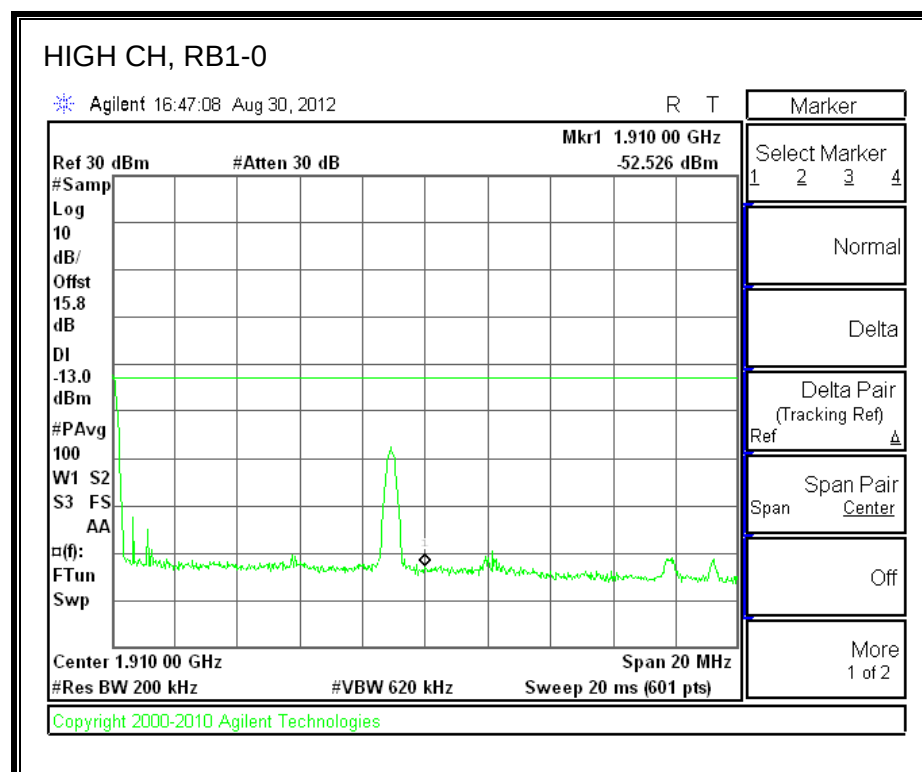
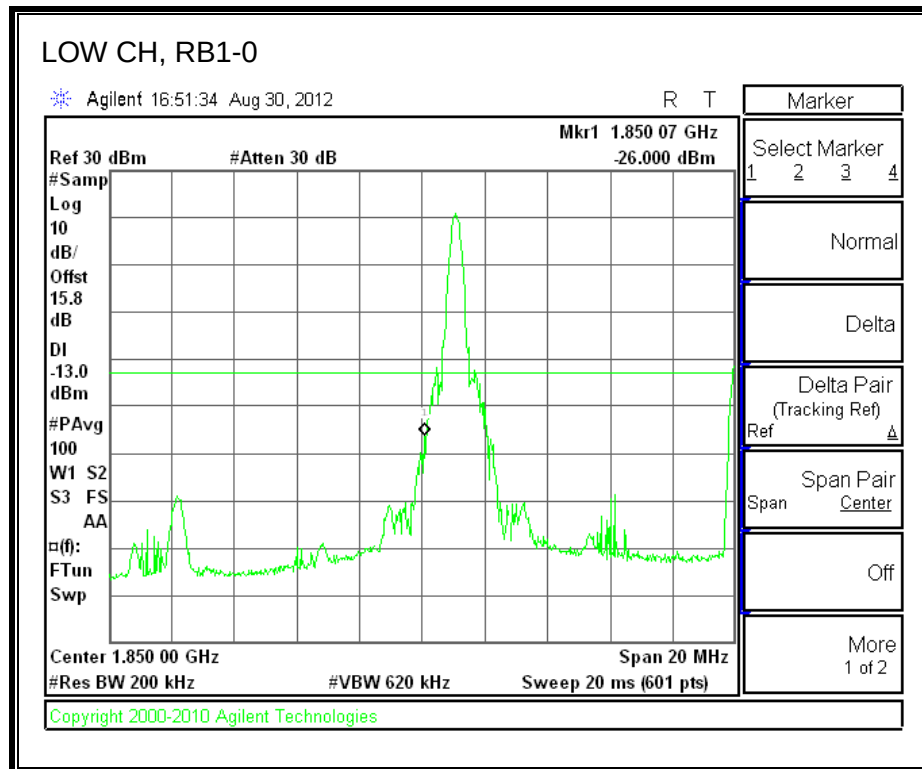


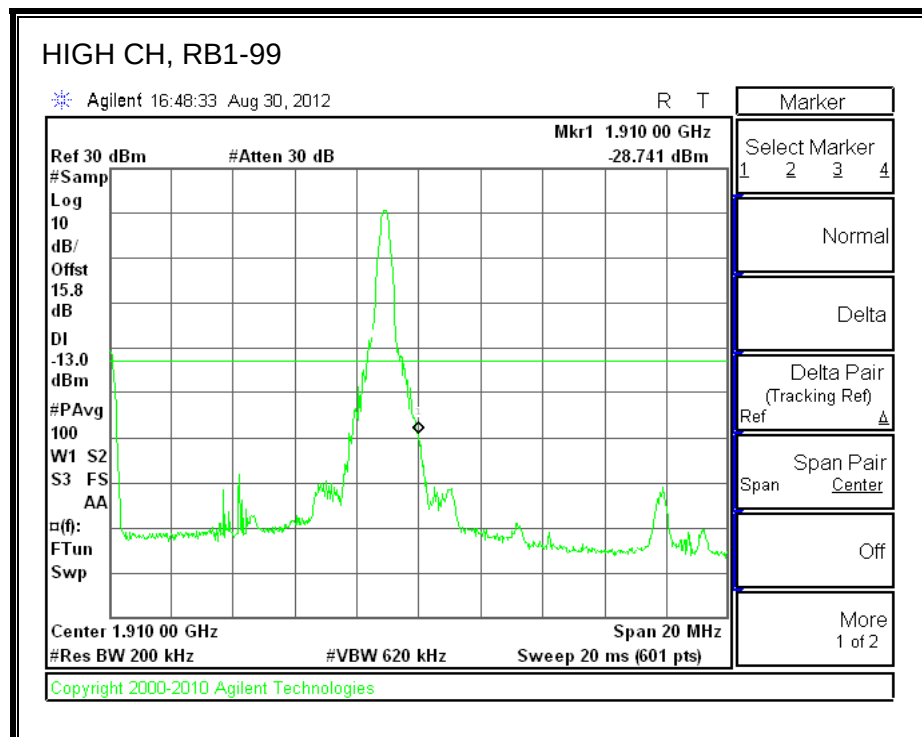
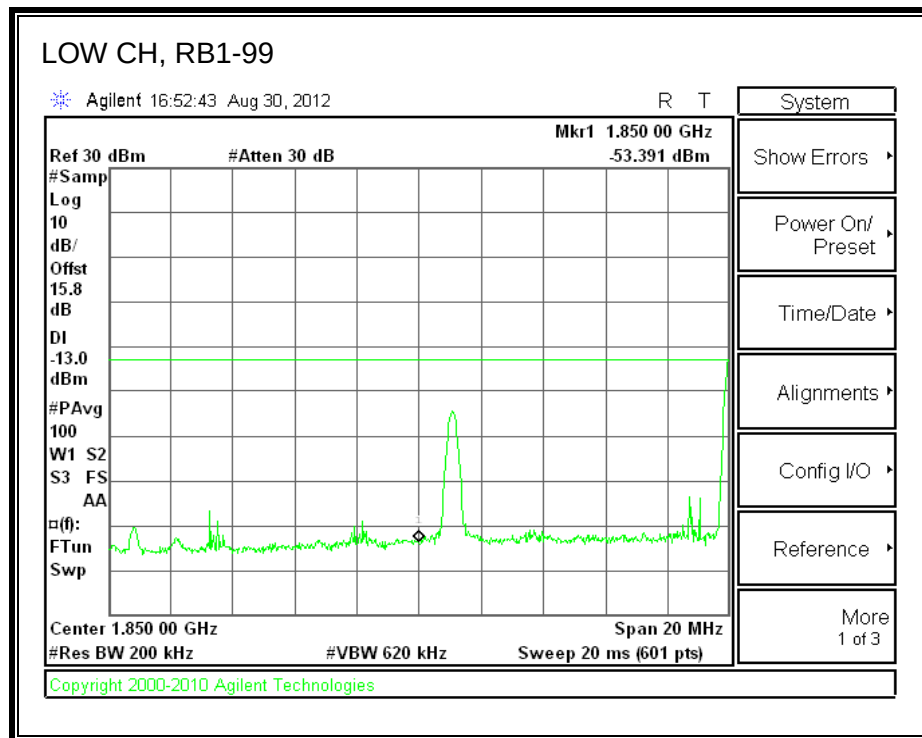


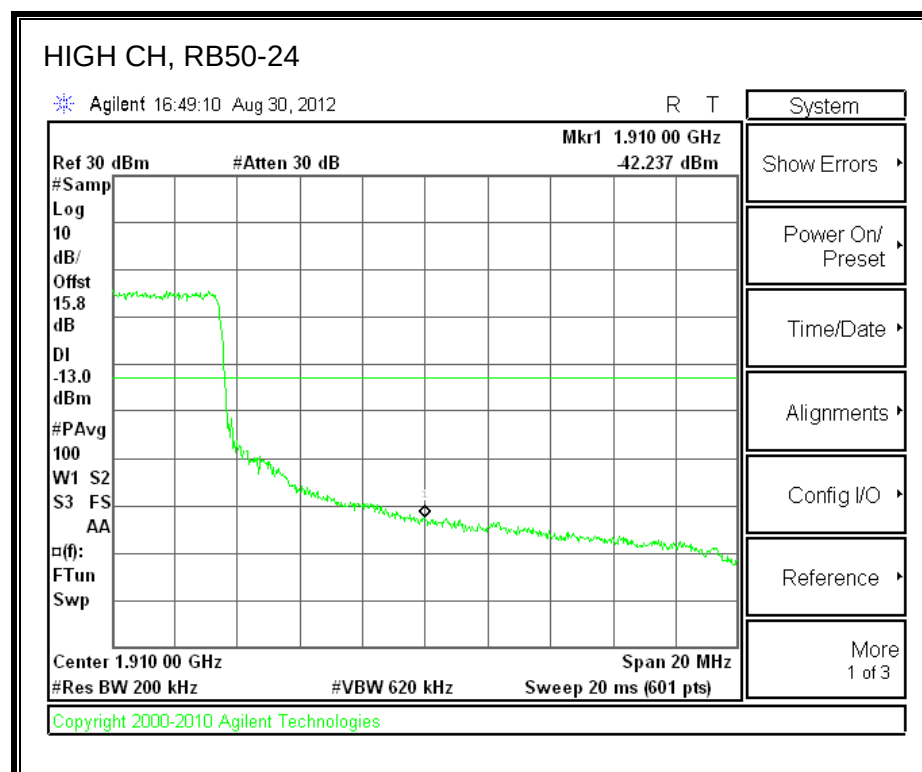
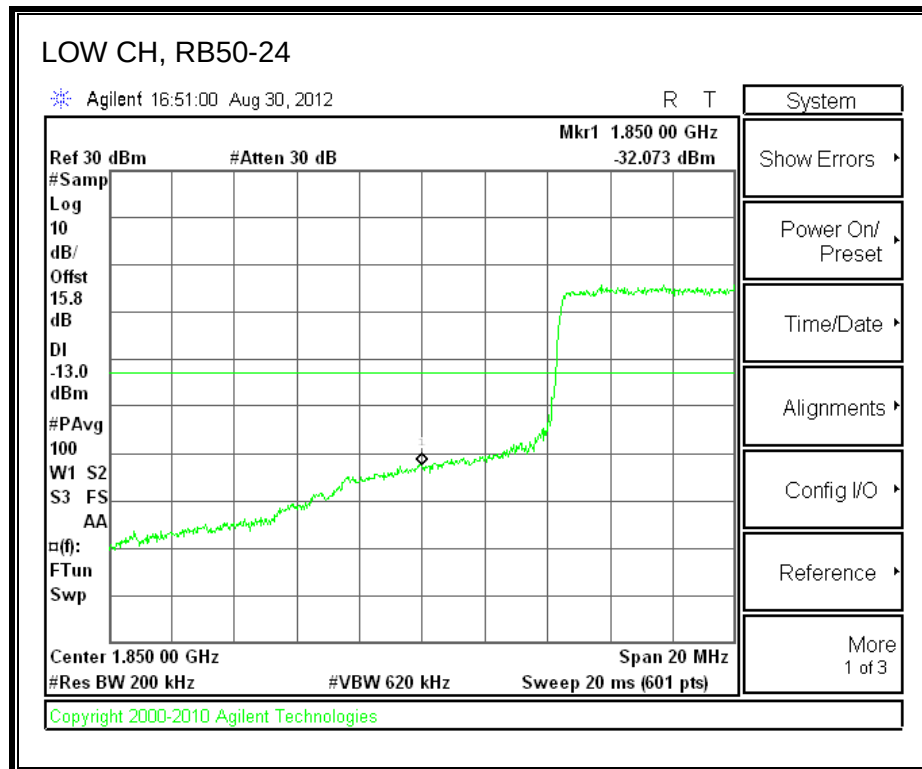


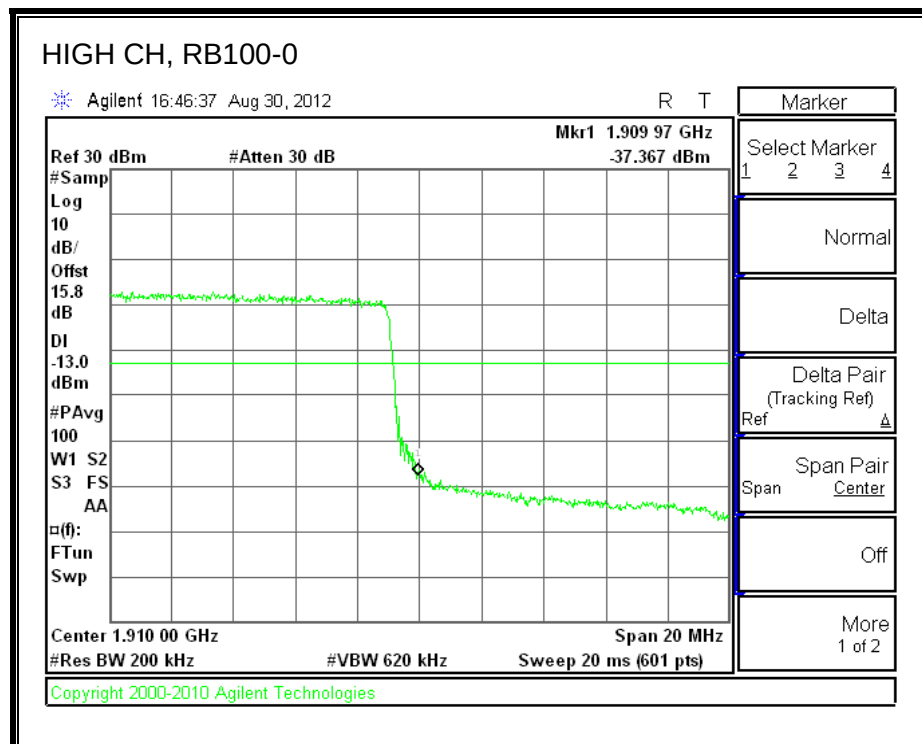
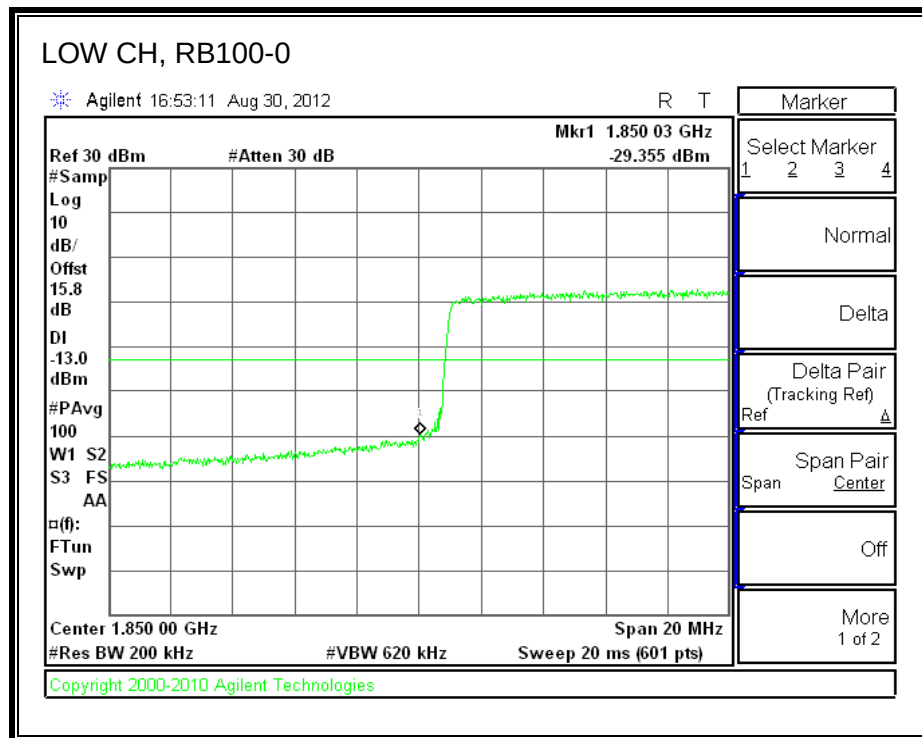


LTE 16QAM Band 2 (15 MHz BANDWIDTH)



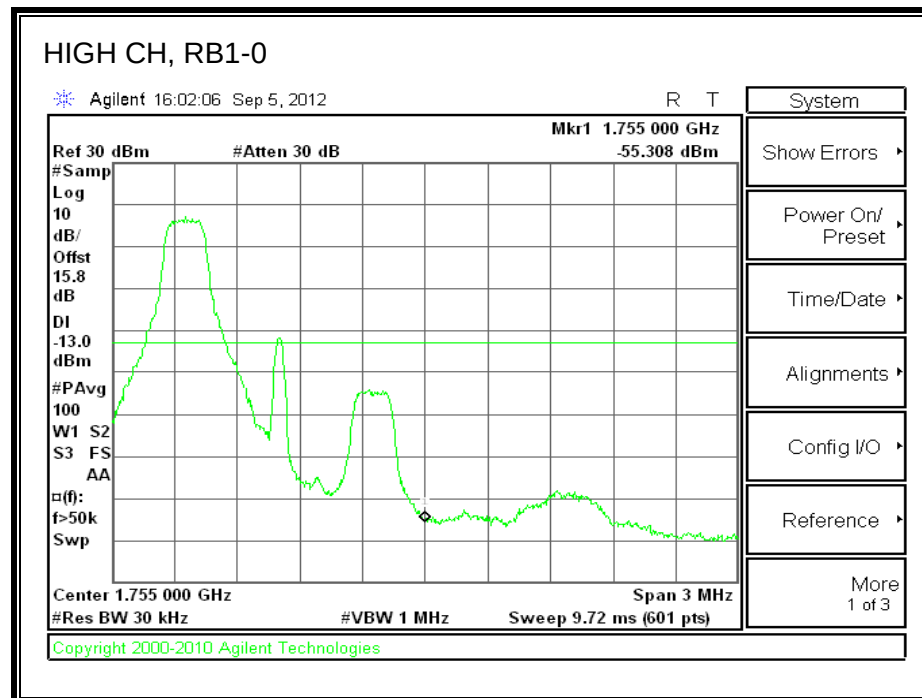
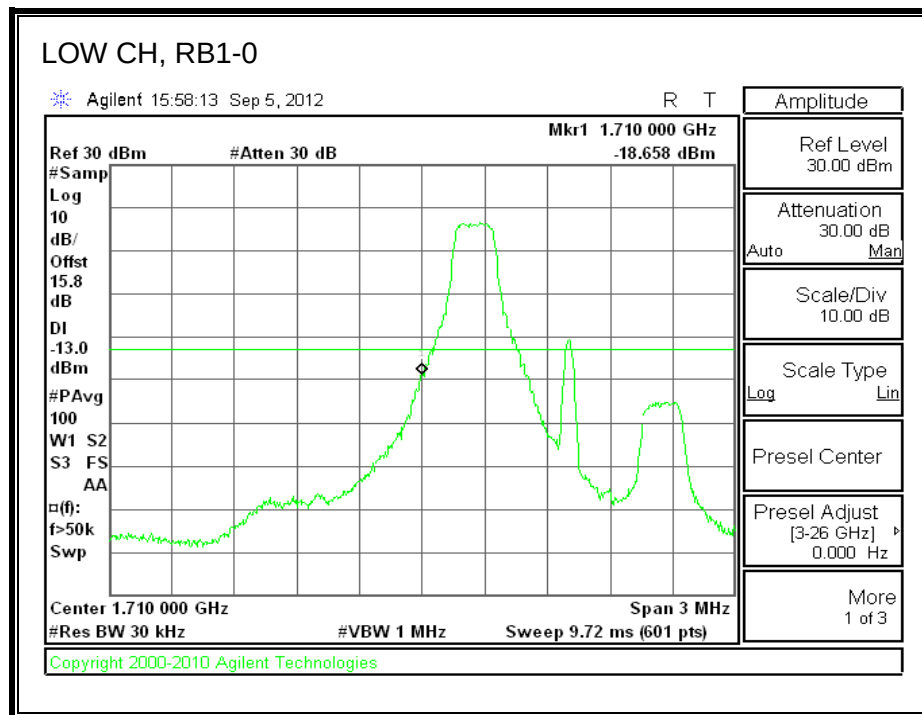


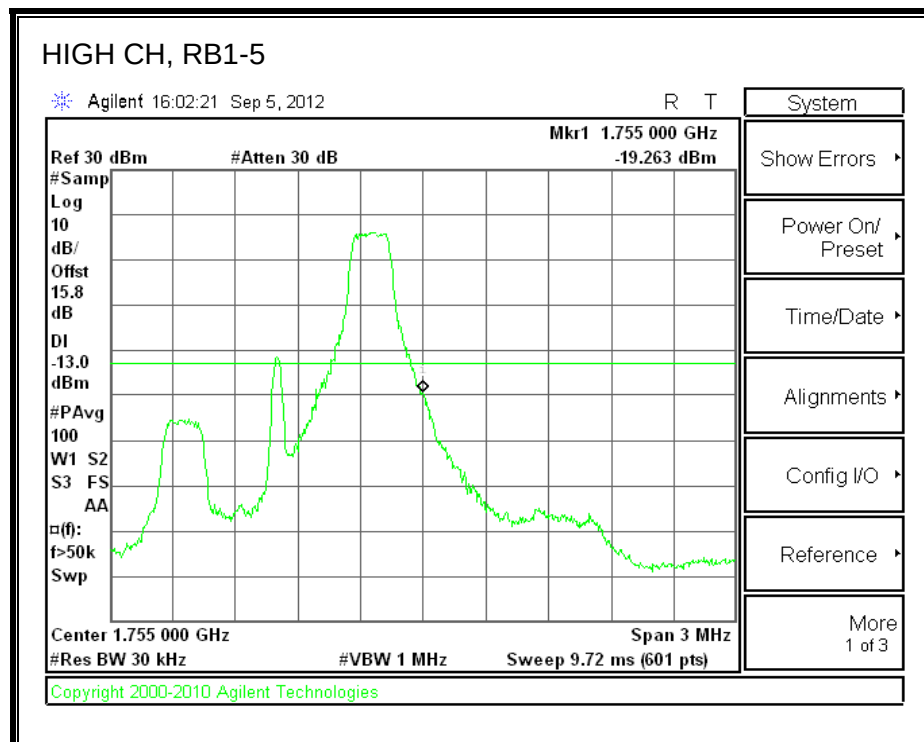
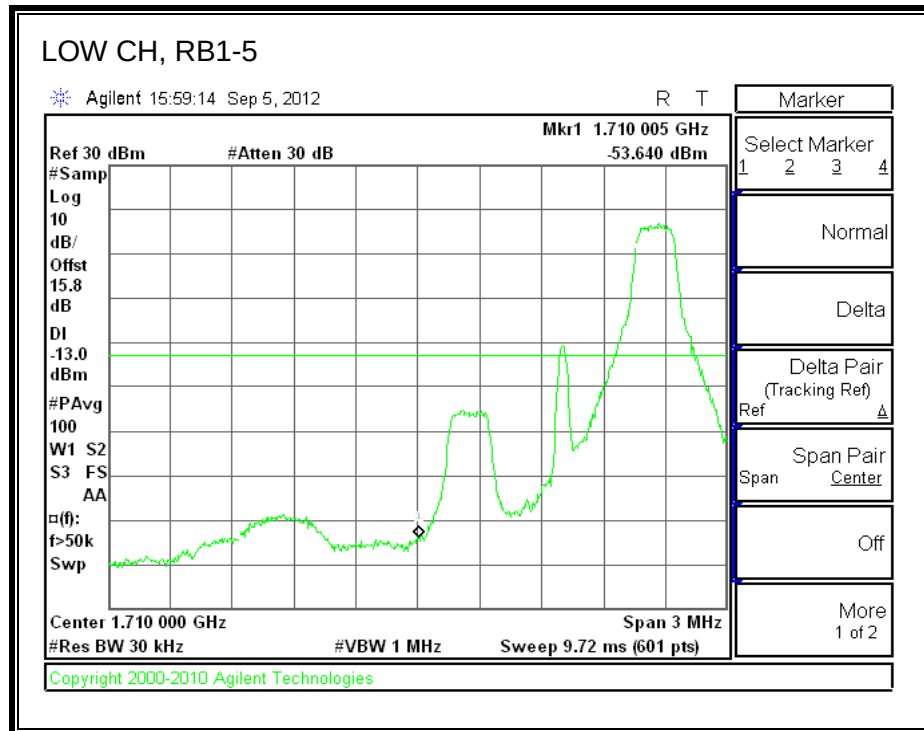


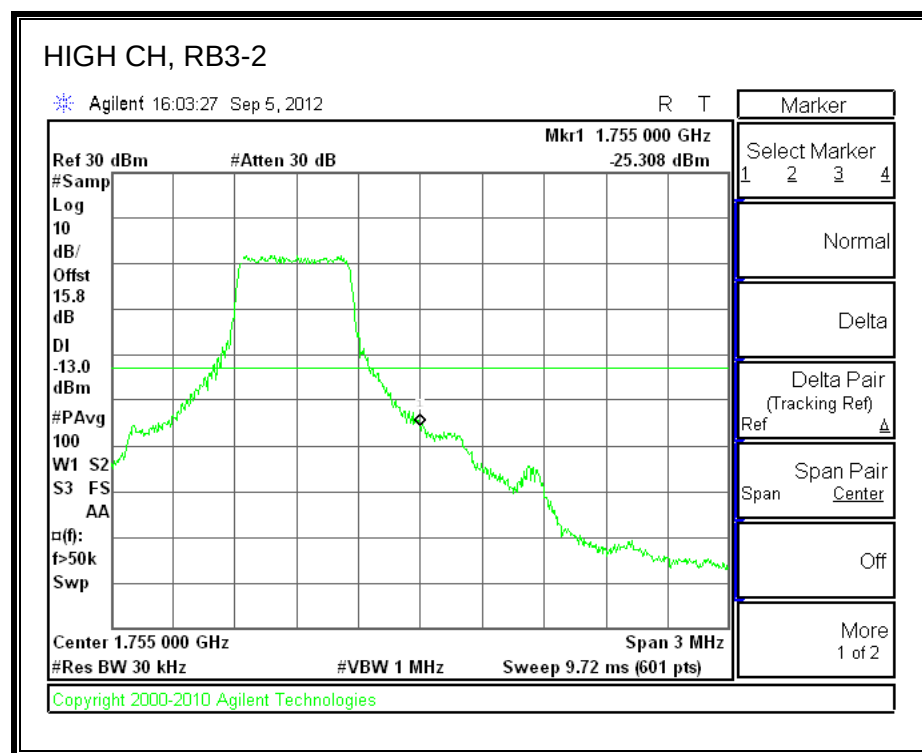
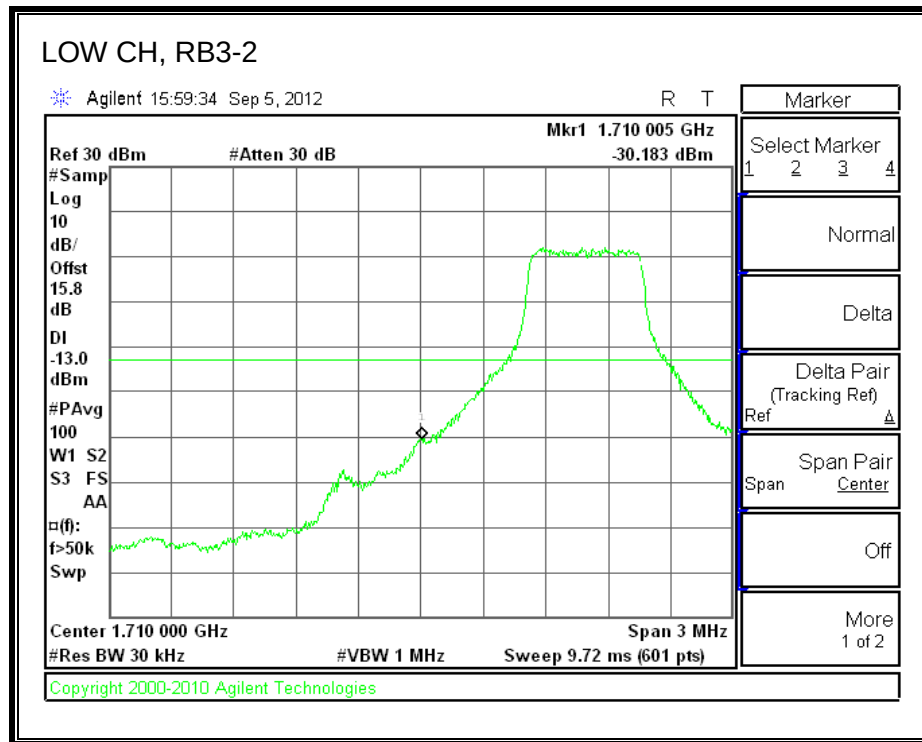


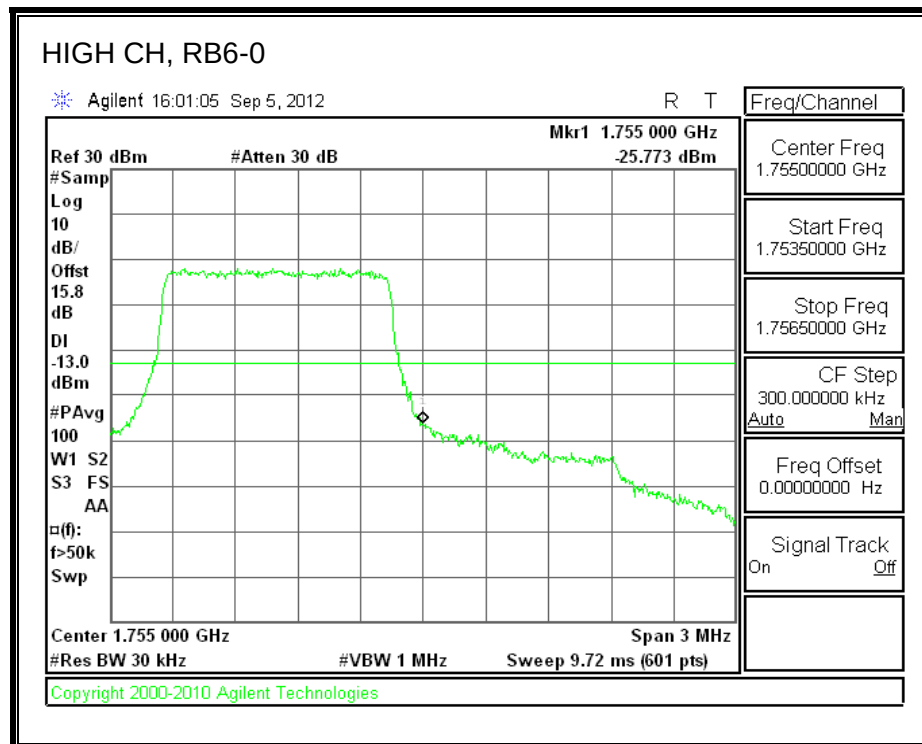
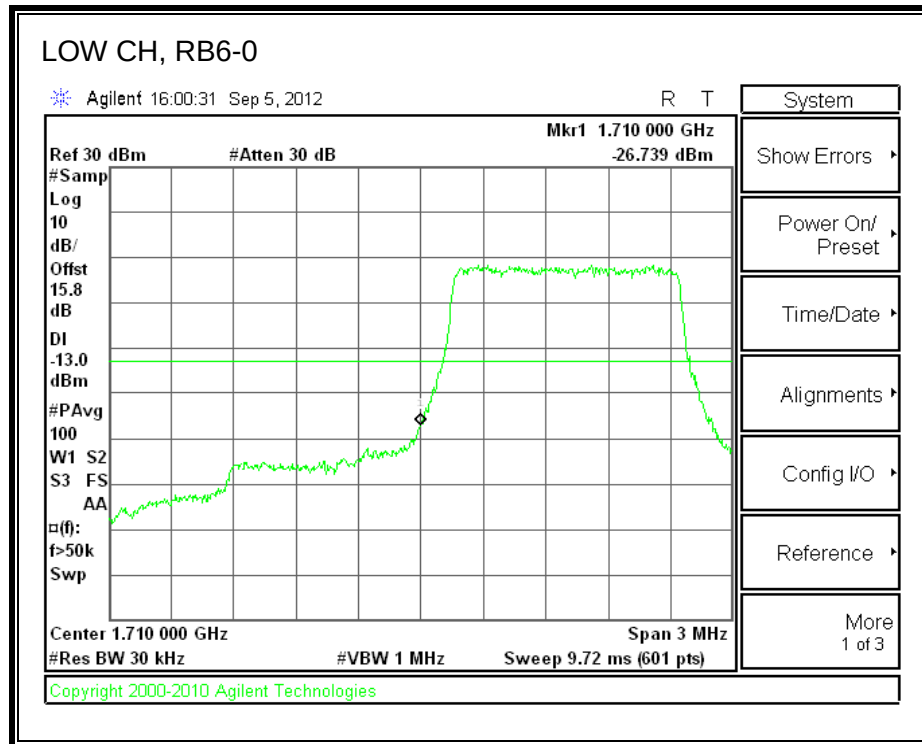
8.2.4. LTE BAND 4

LTE QPSK Band 4 (1.4 MHz BANDWIDTH)

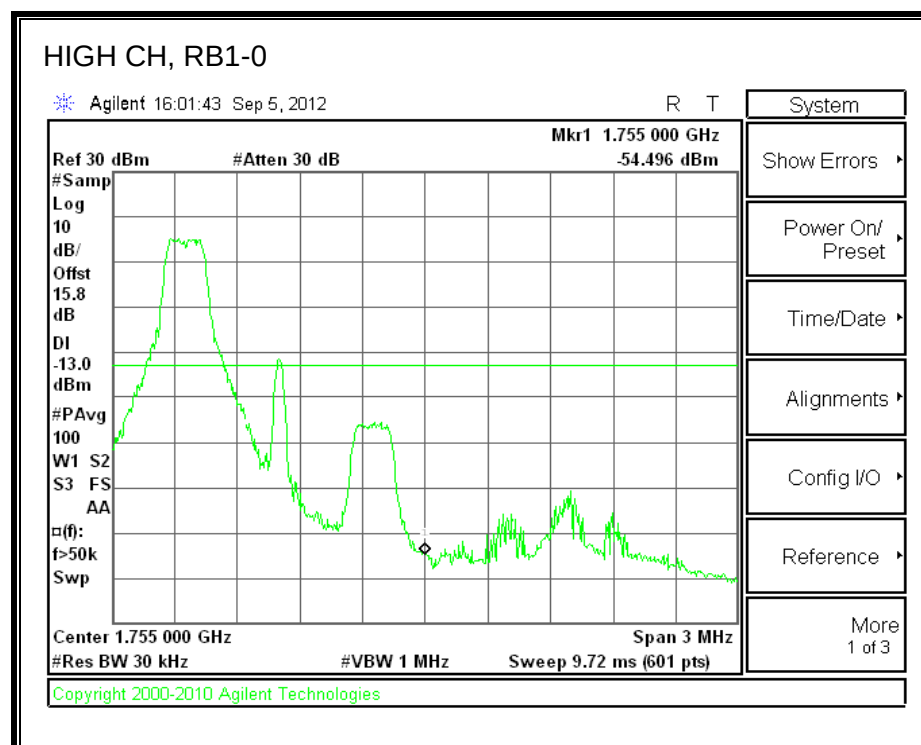
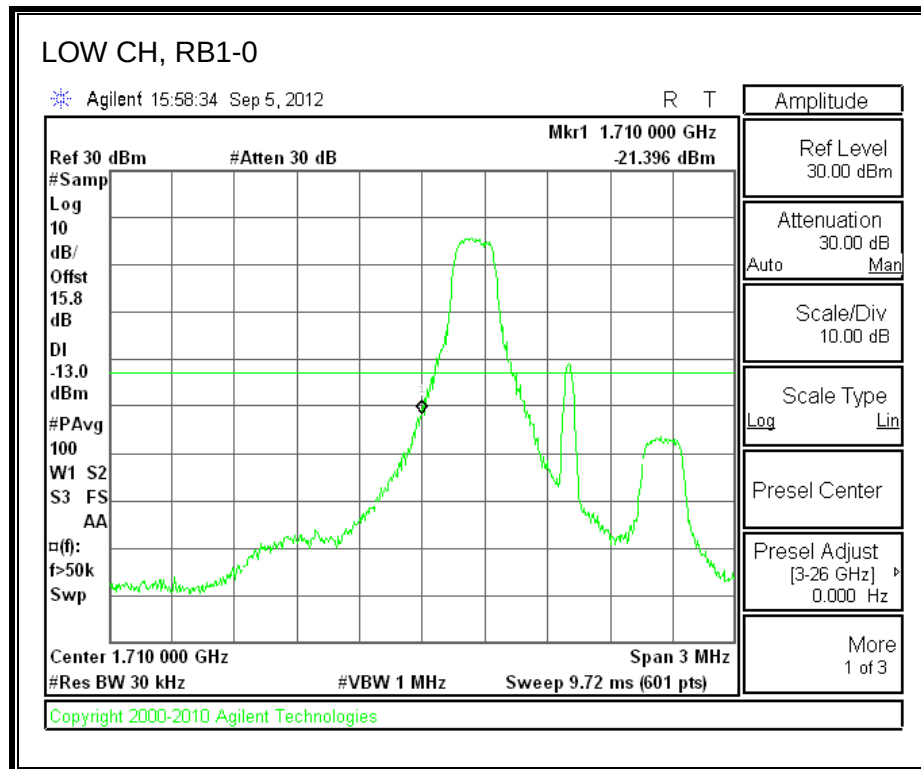


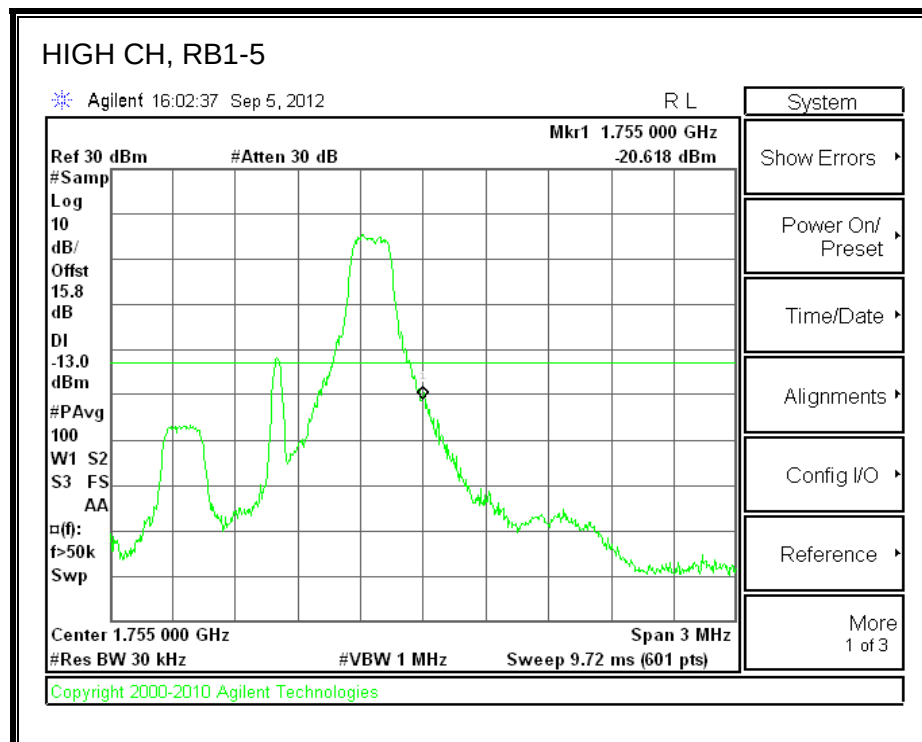
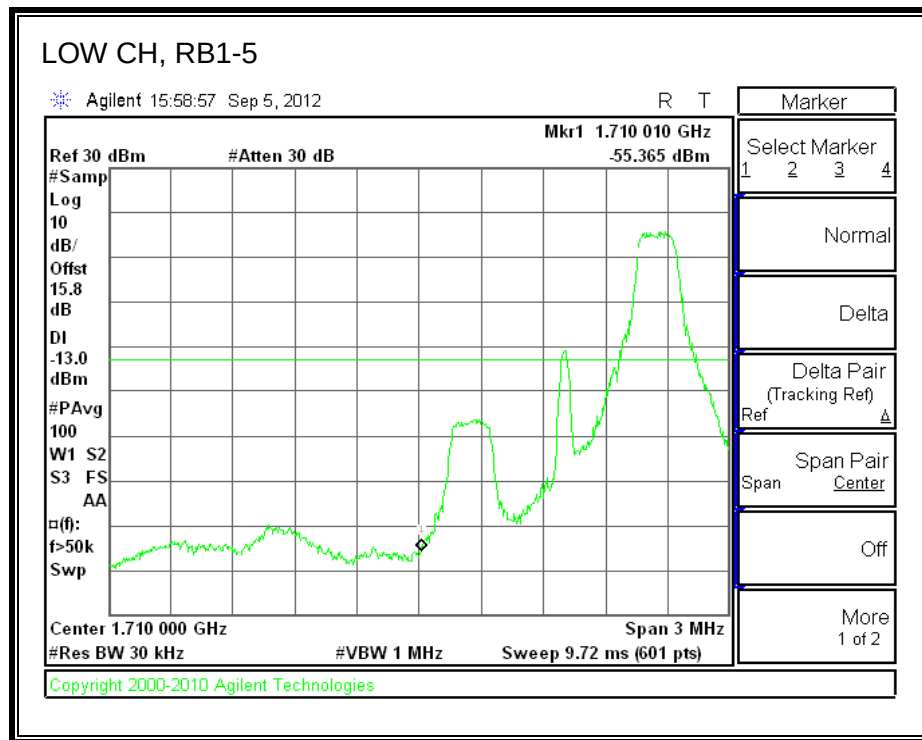


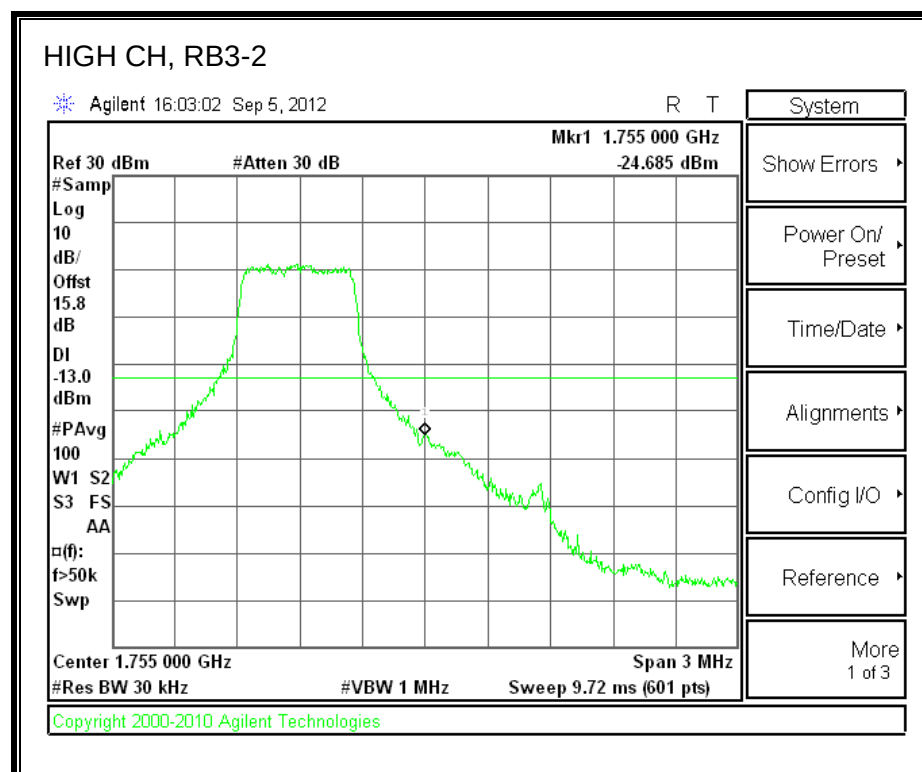
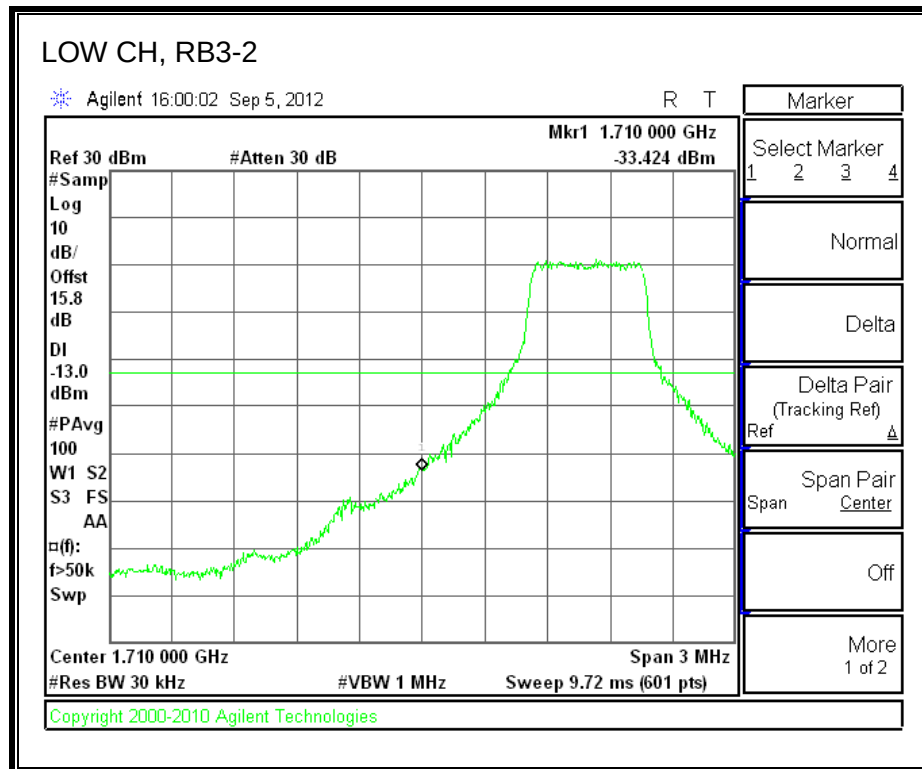


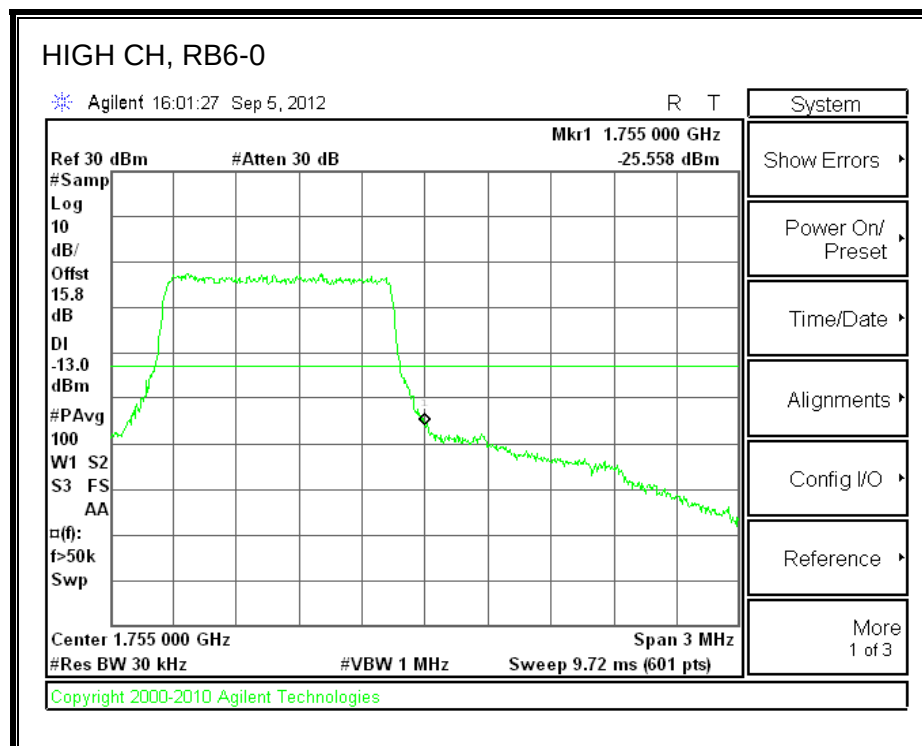
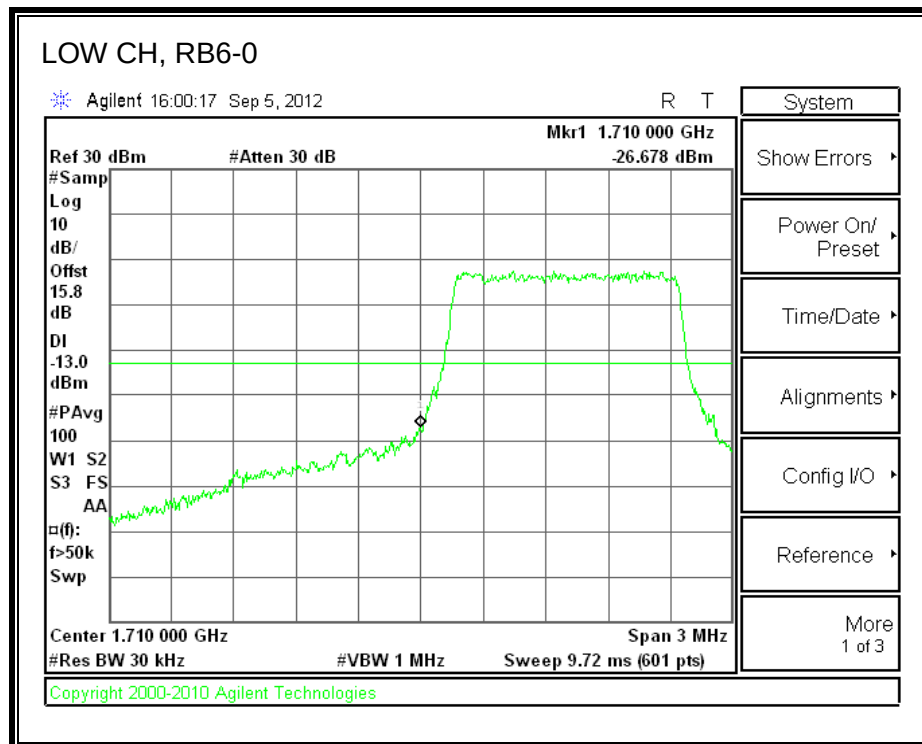


LTE 16QAM Band 4 (1.4 MHz BANDWIDTH)

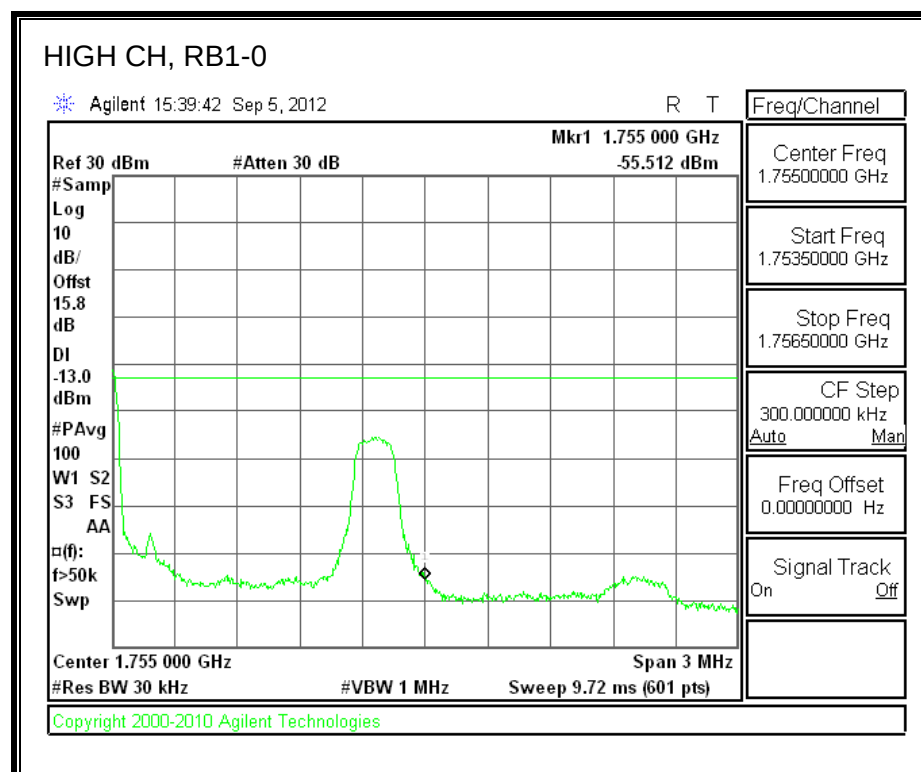
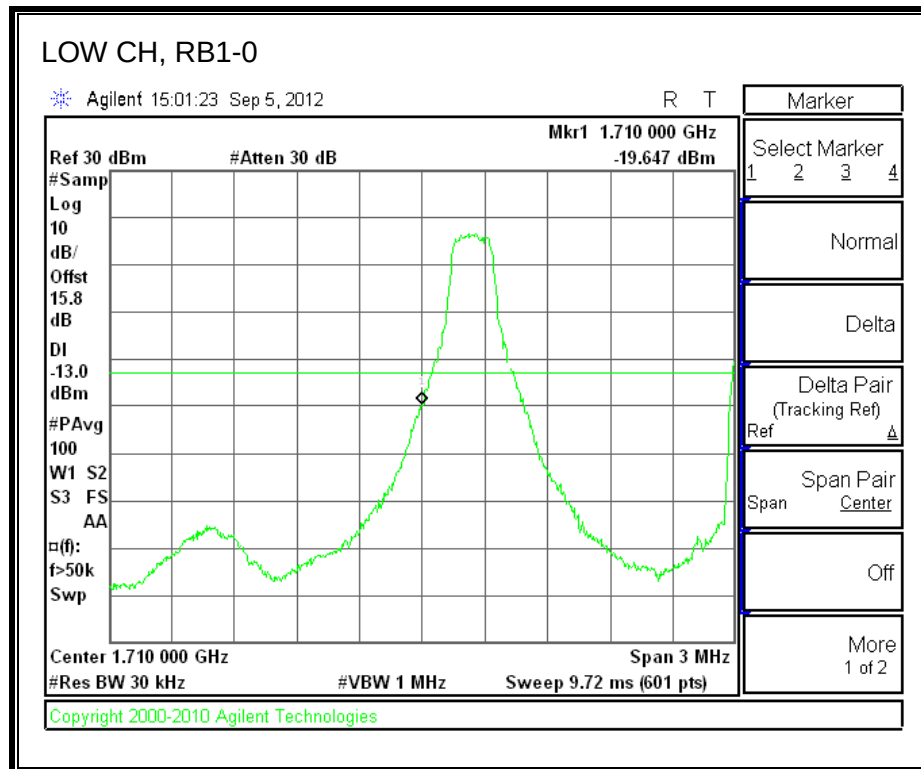


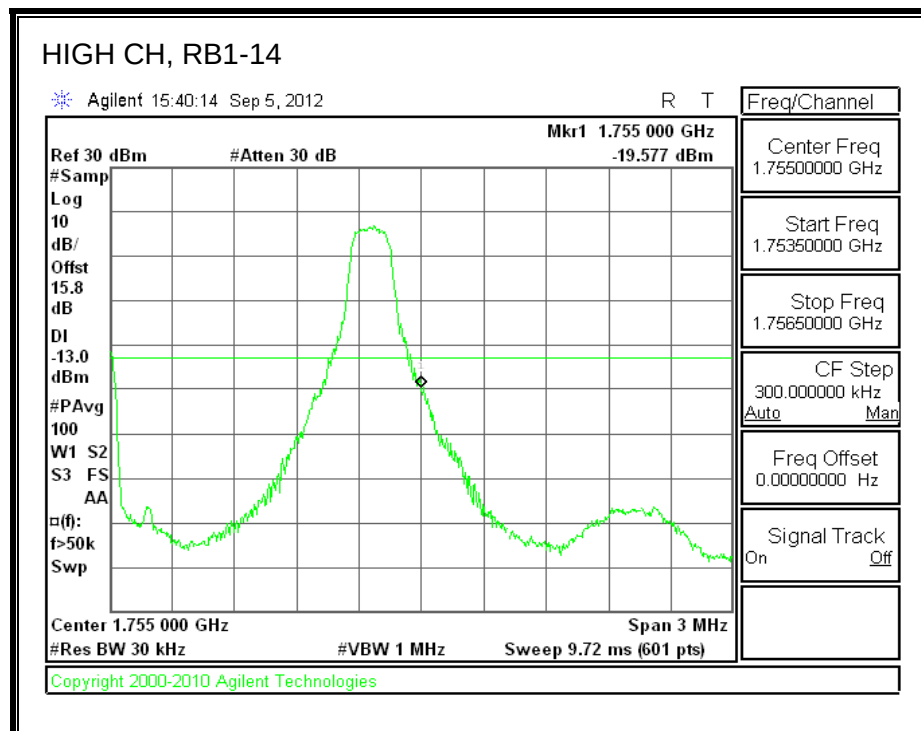
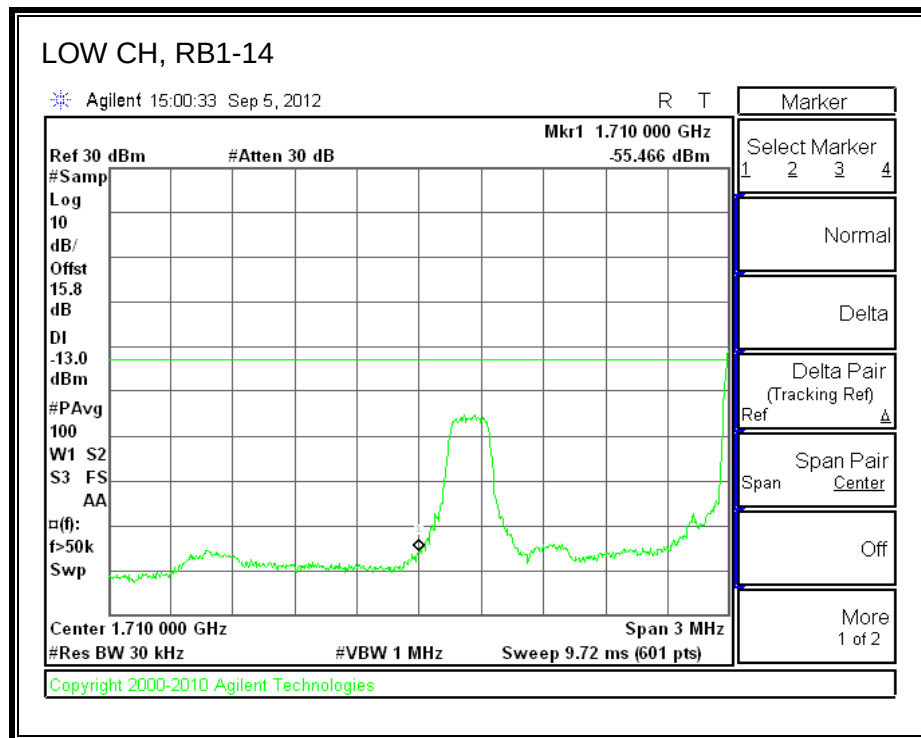


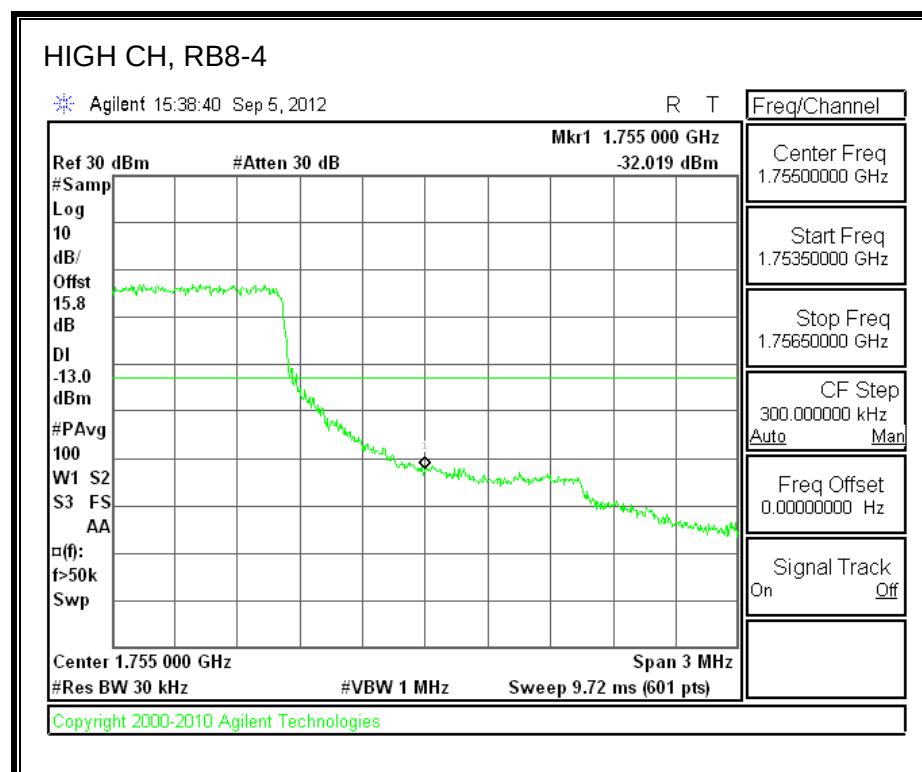
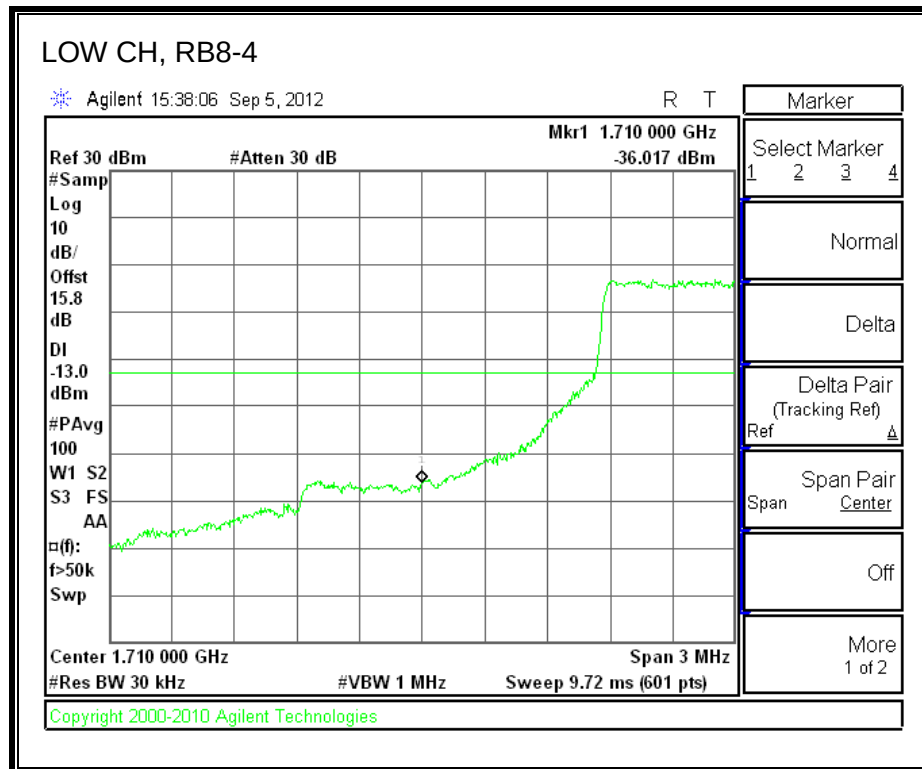


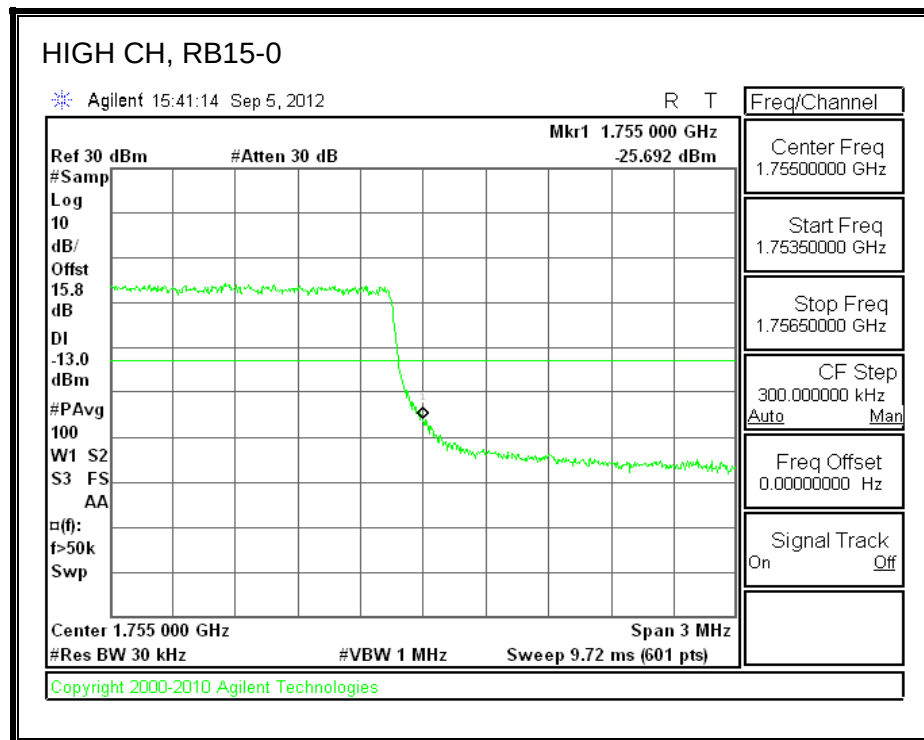
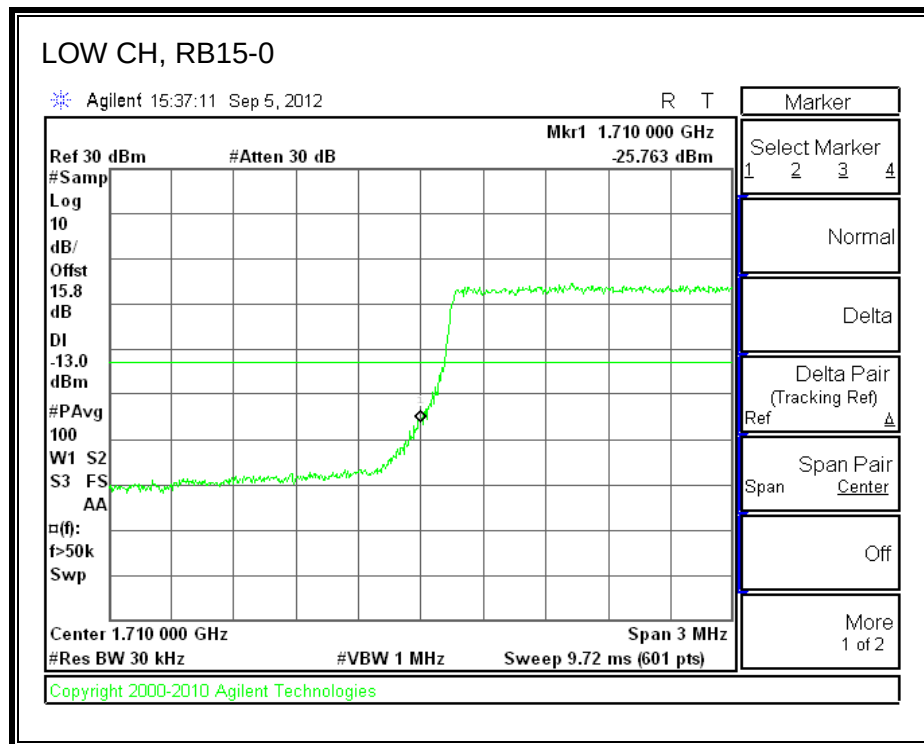


LTE QPSK Band 4 (3 MHz BANDWIDTH)

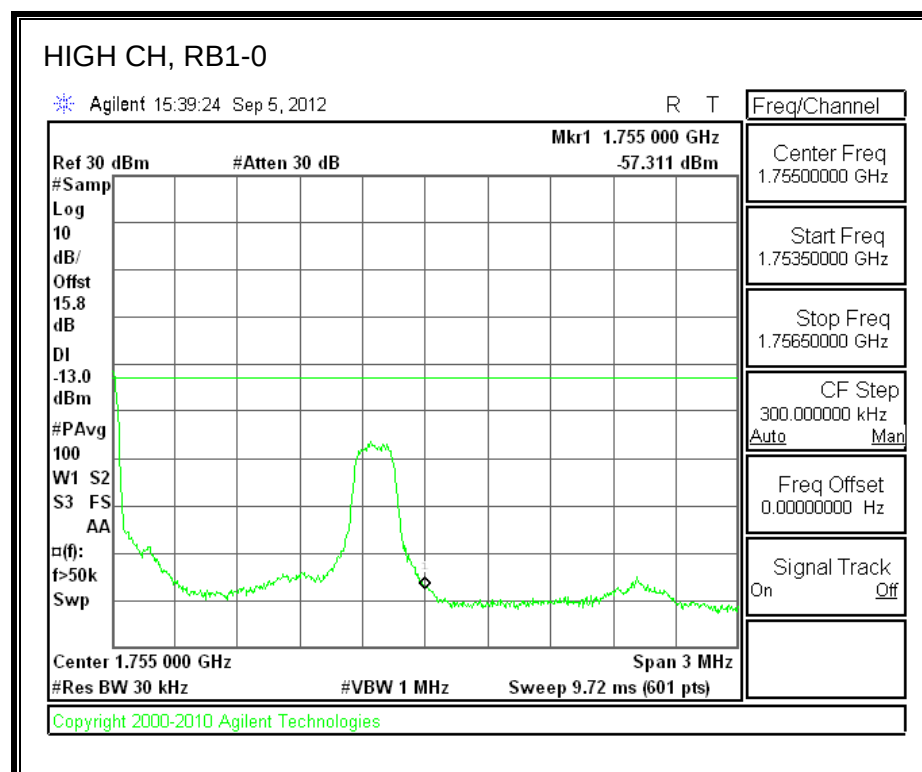
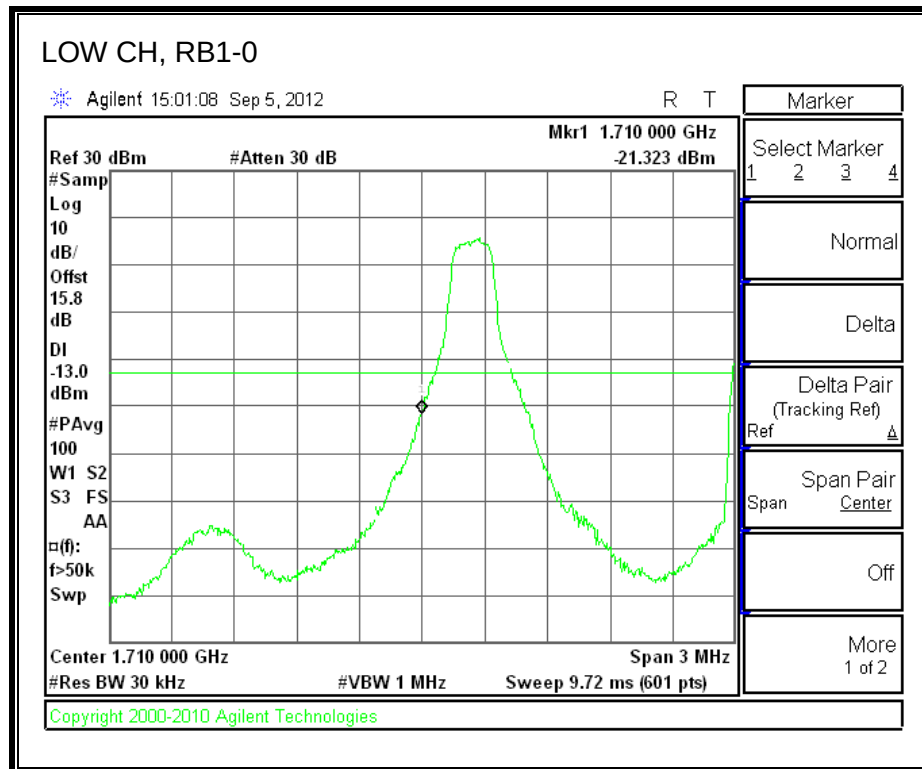


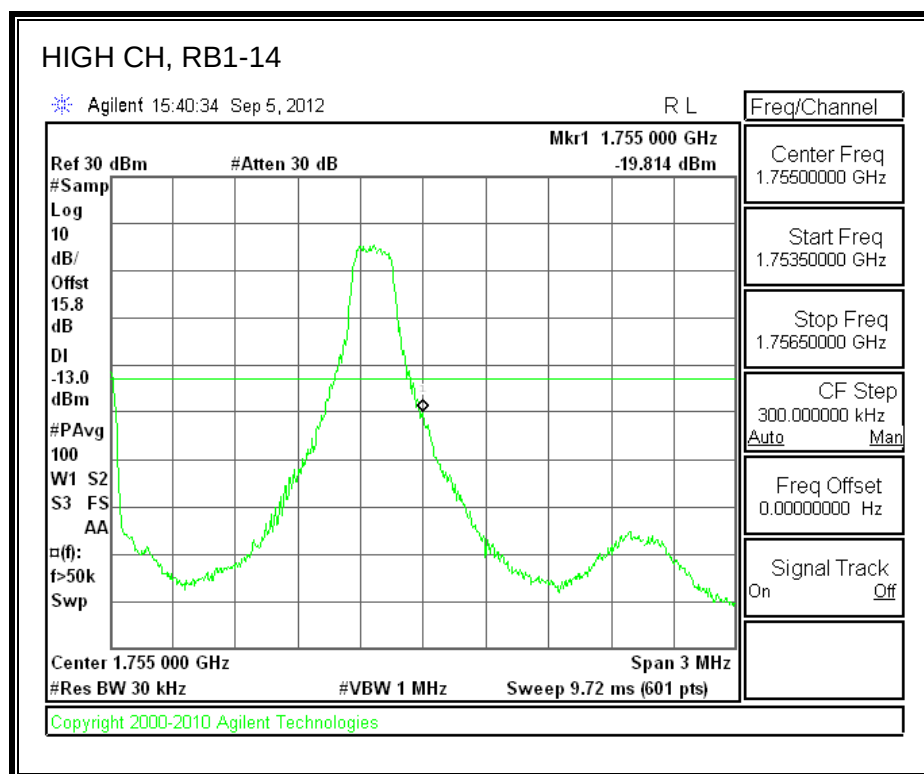
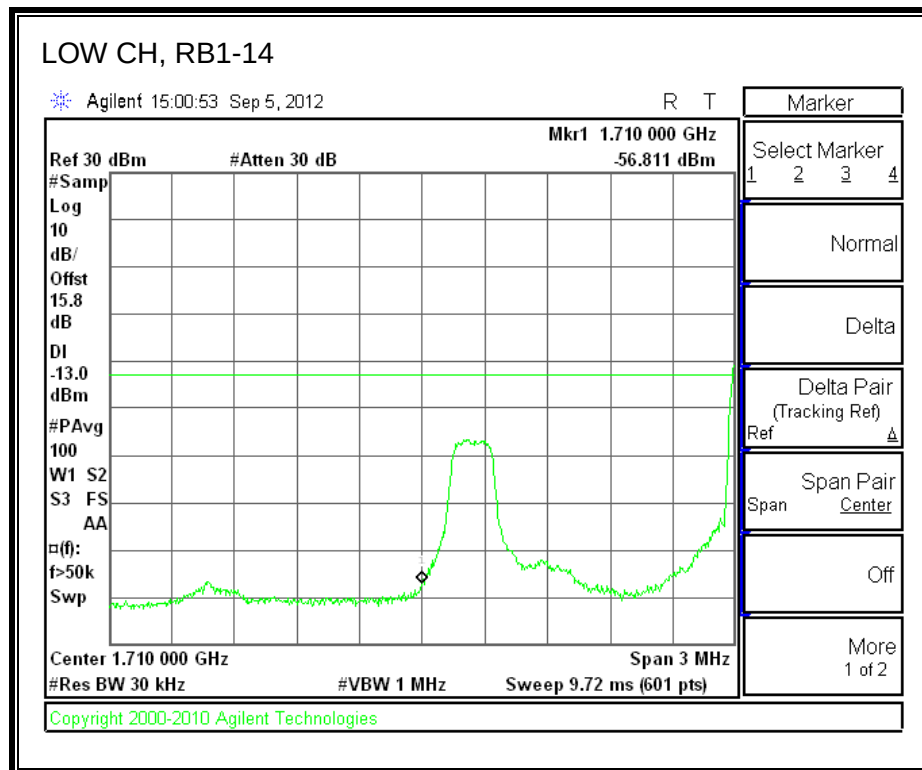


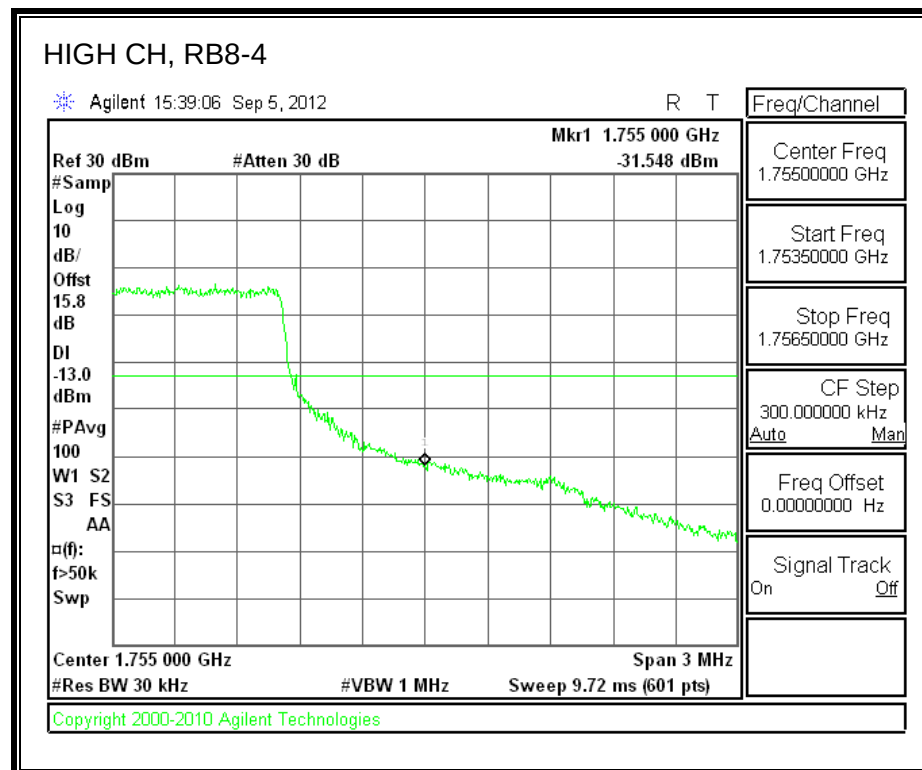
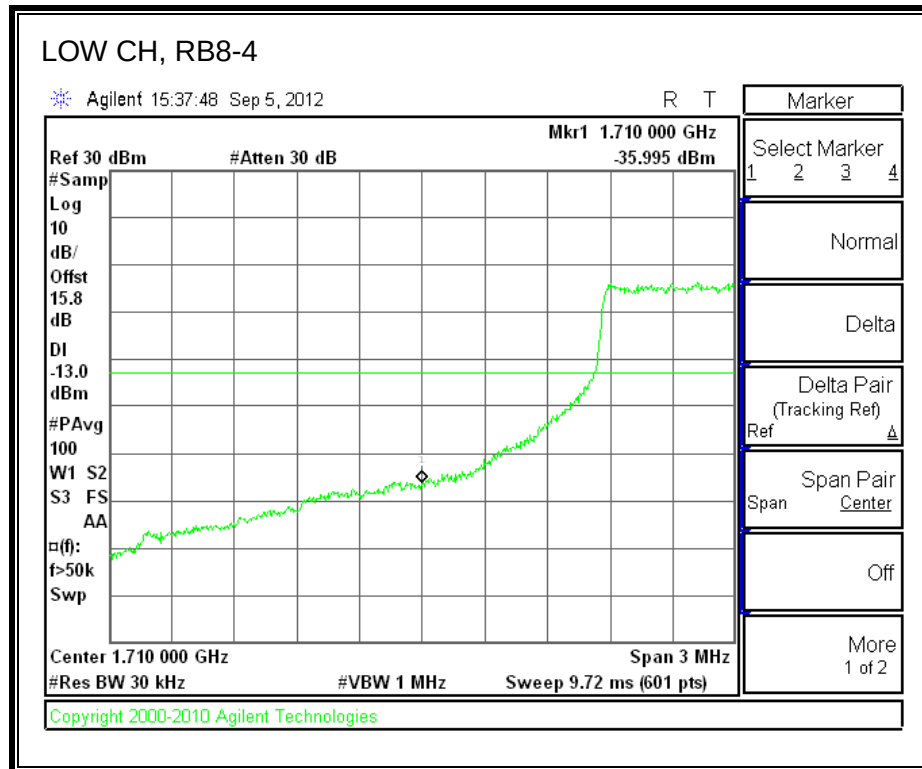


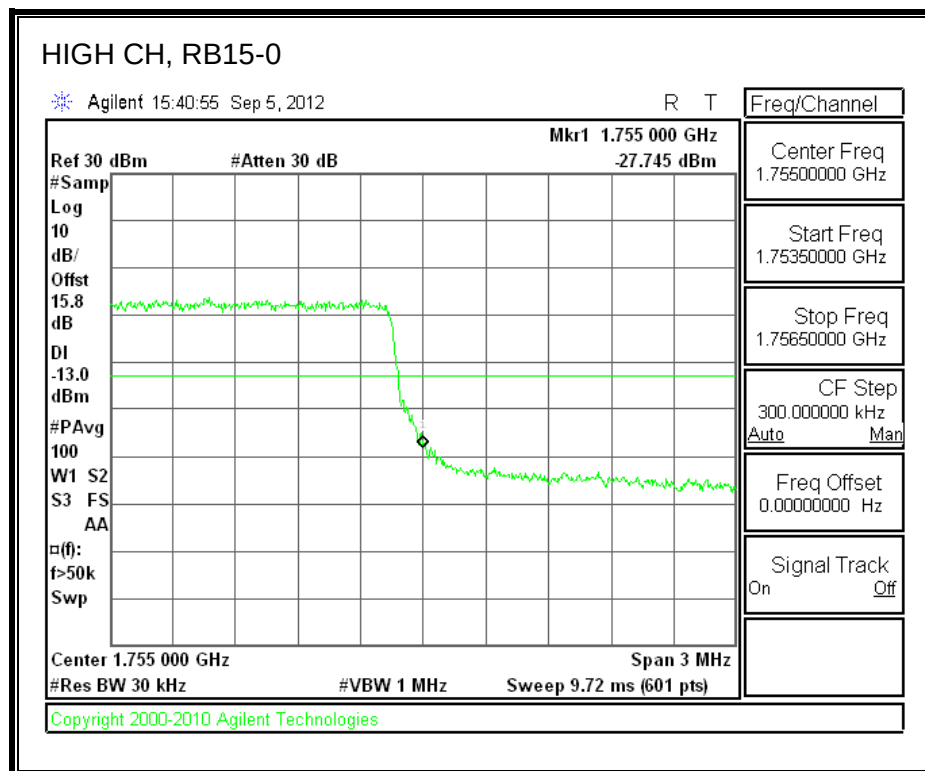
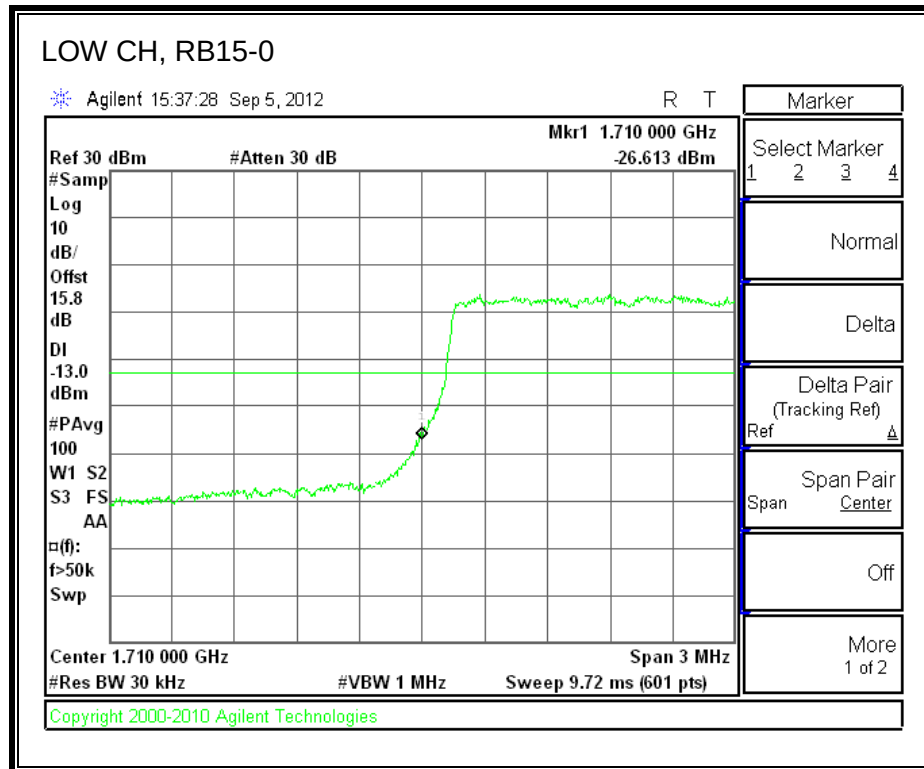


LTE 16QAM Band 4 (3 MHz BANDWIDTH)

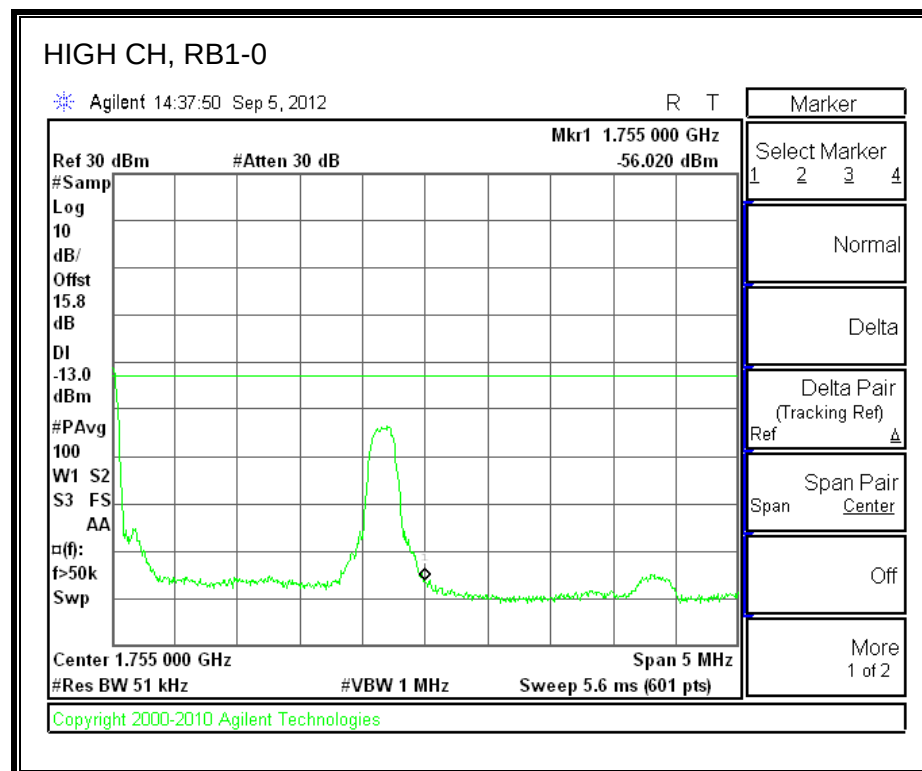
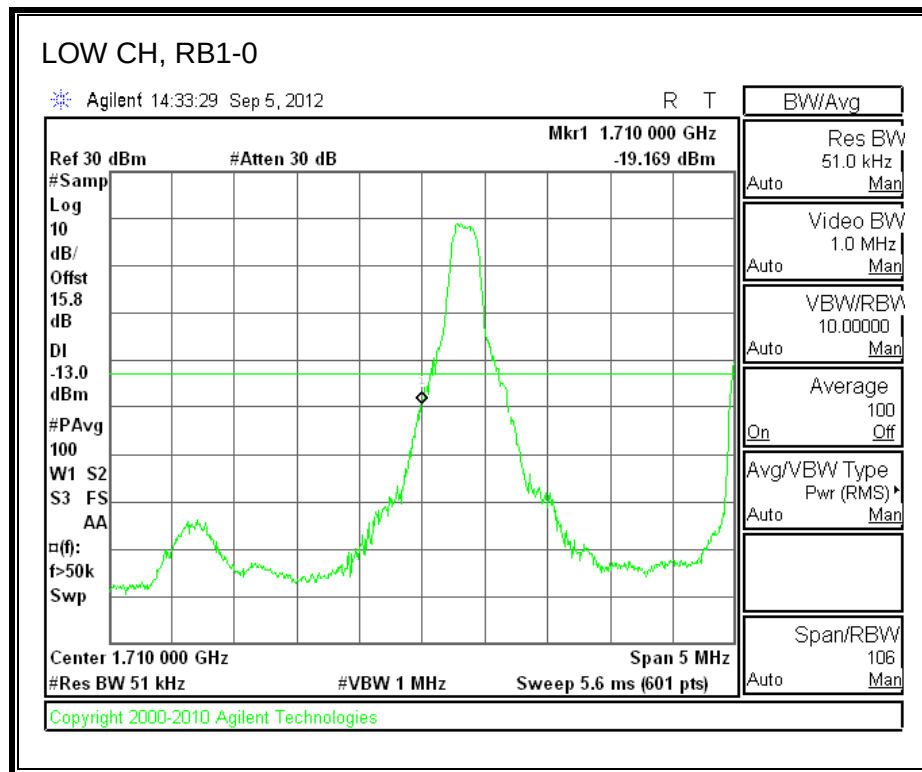


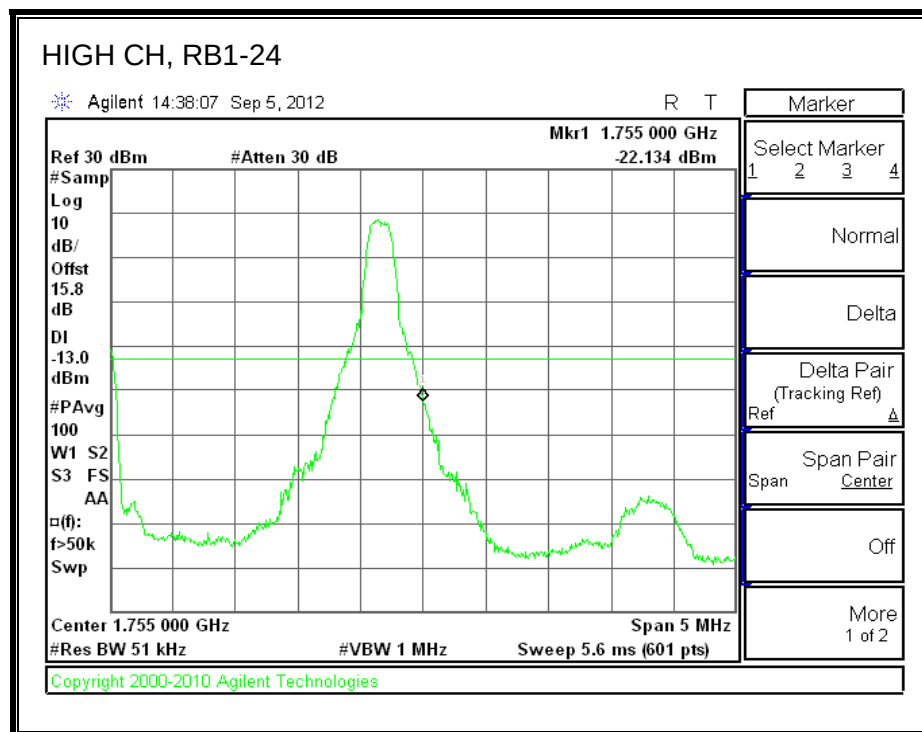
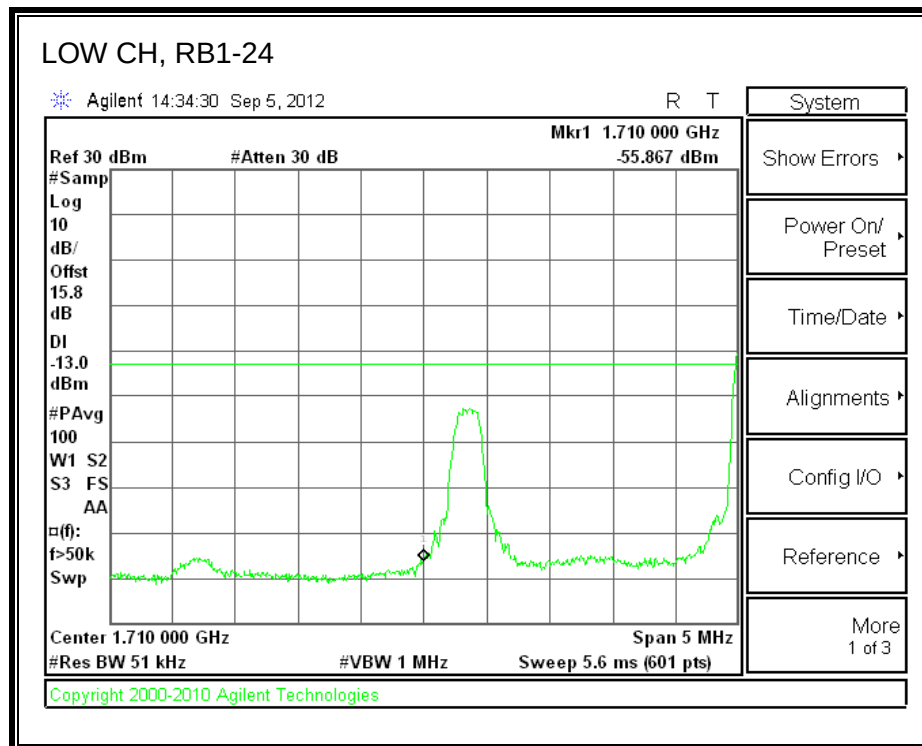


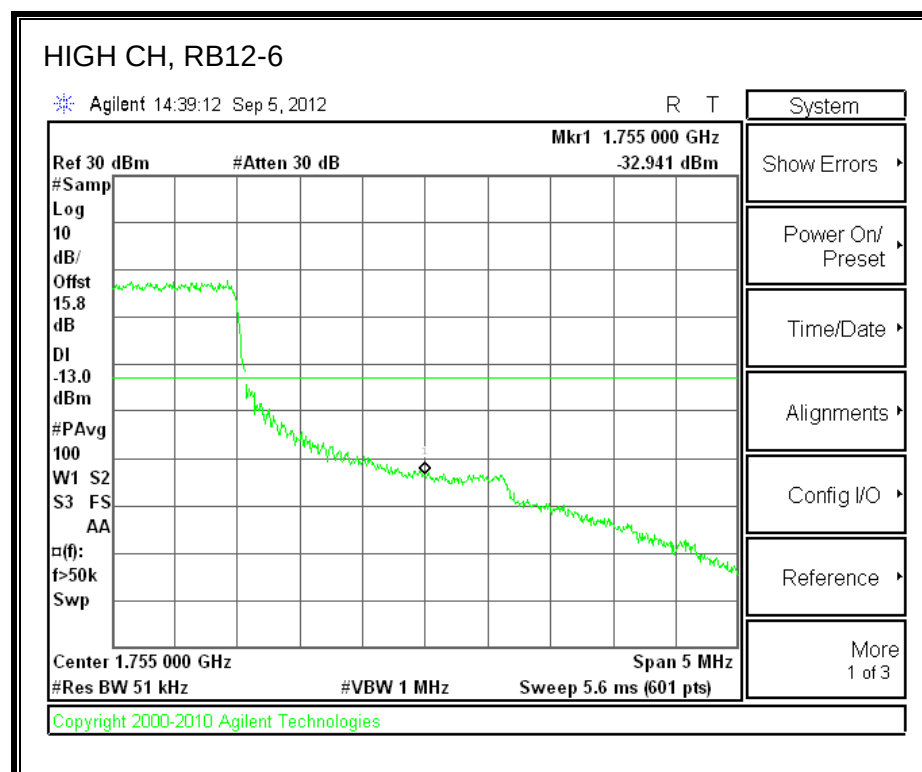
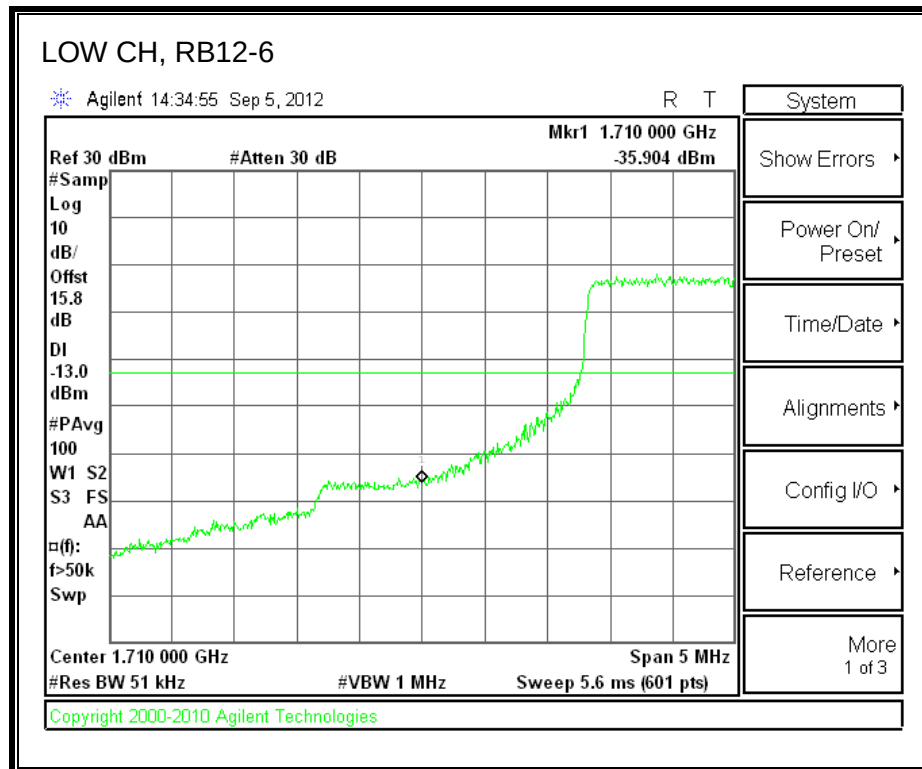


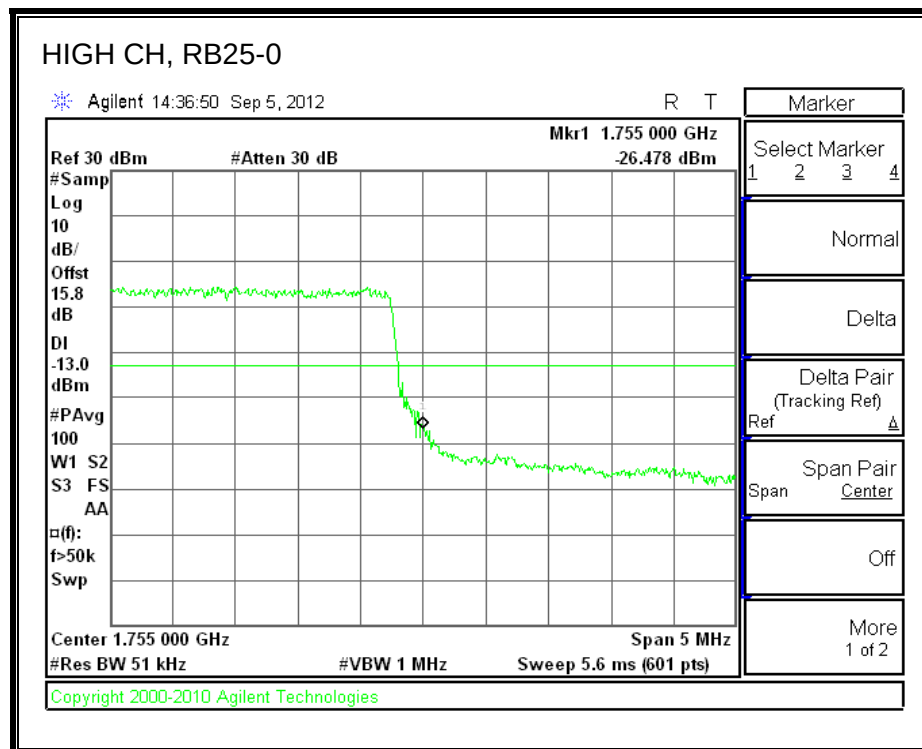
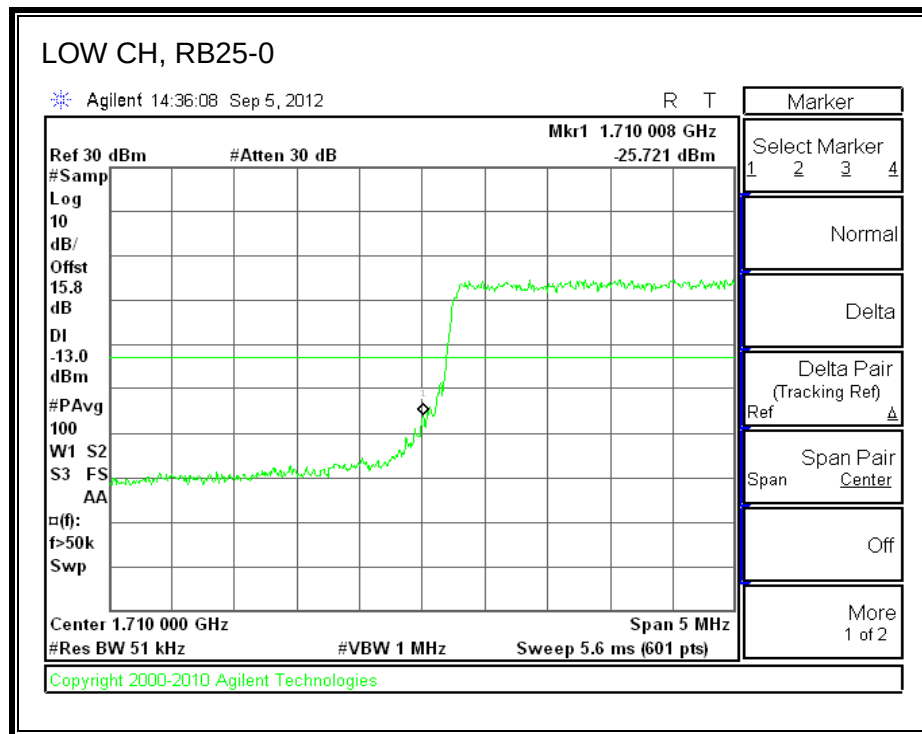


LTE QPSK Band 4 (5 MHz BANDWIDTH)

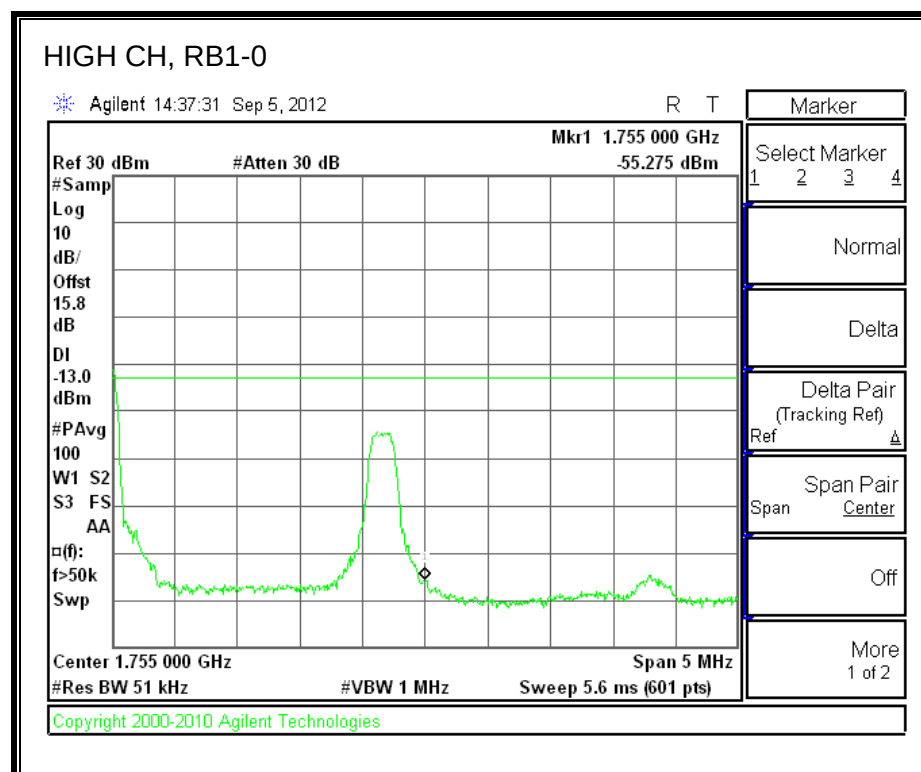
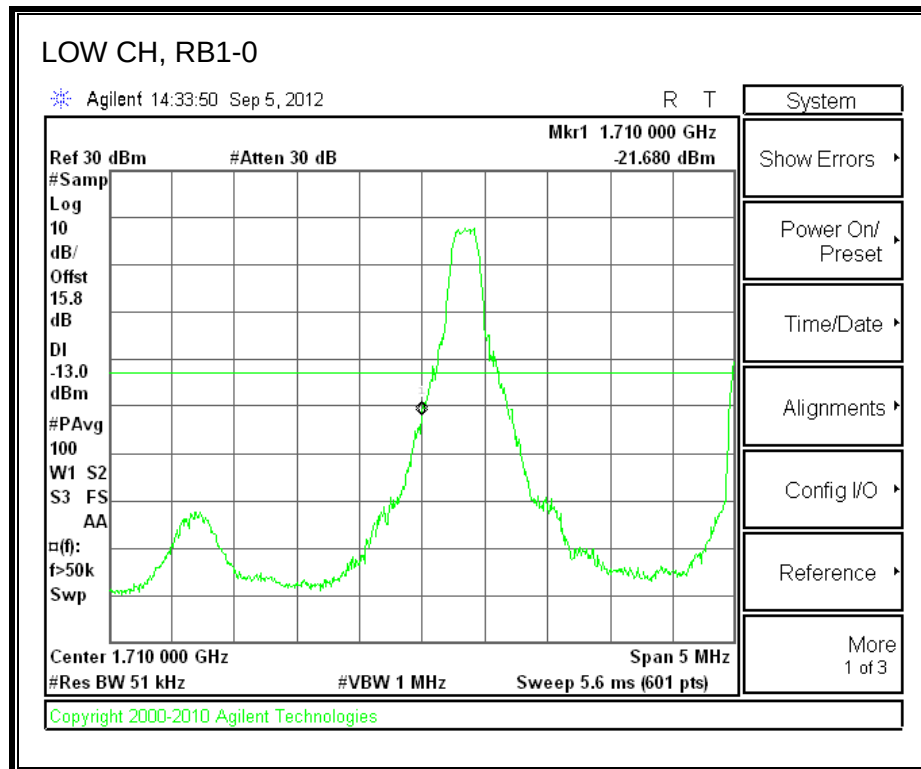


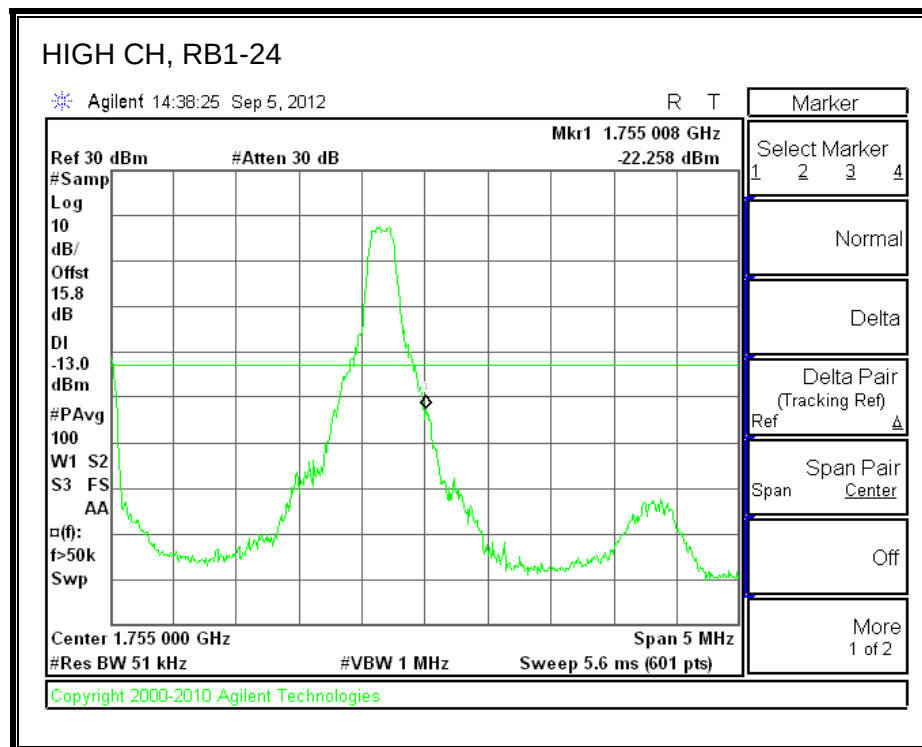
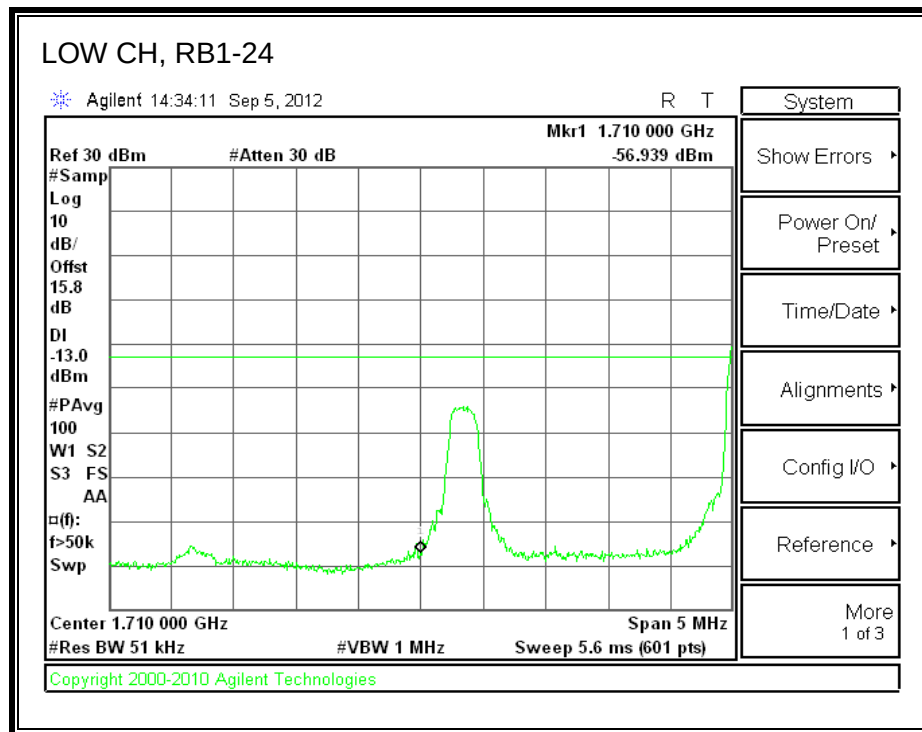


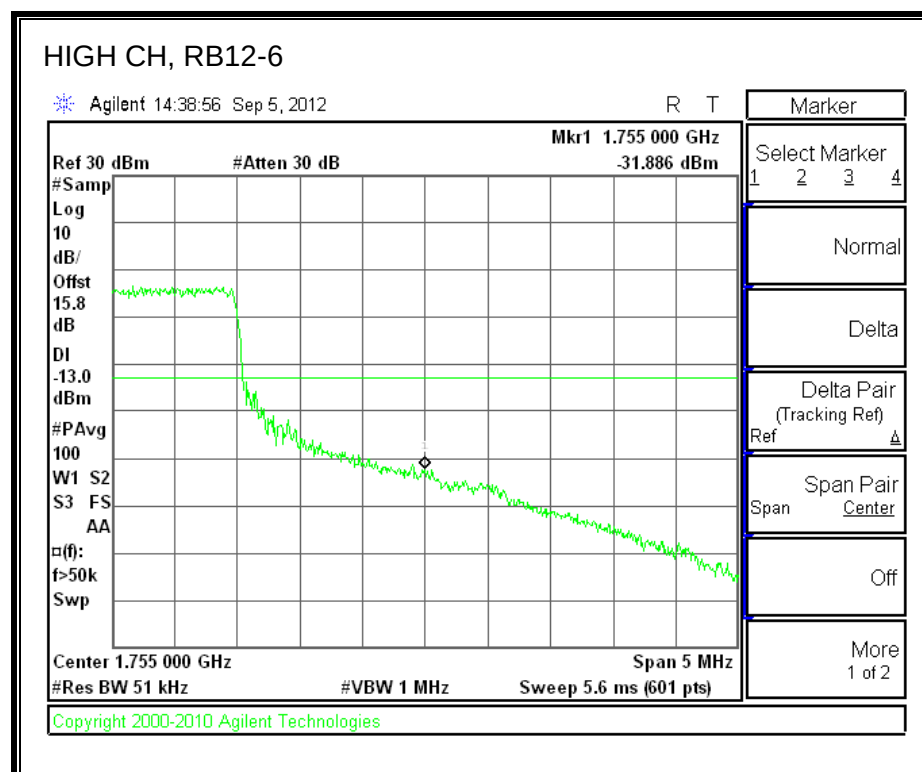
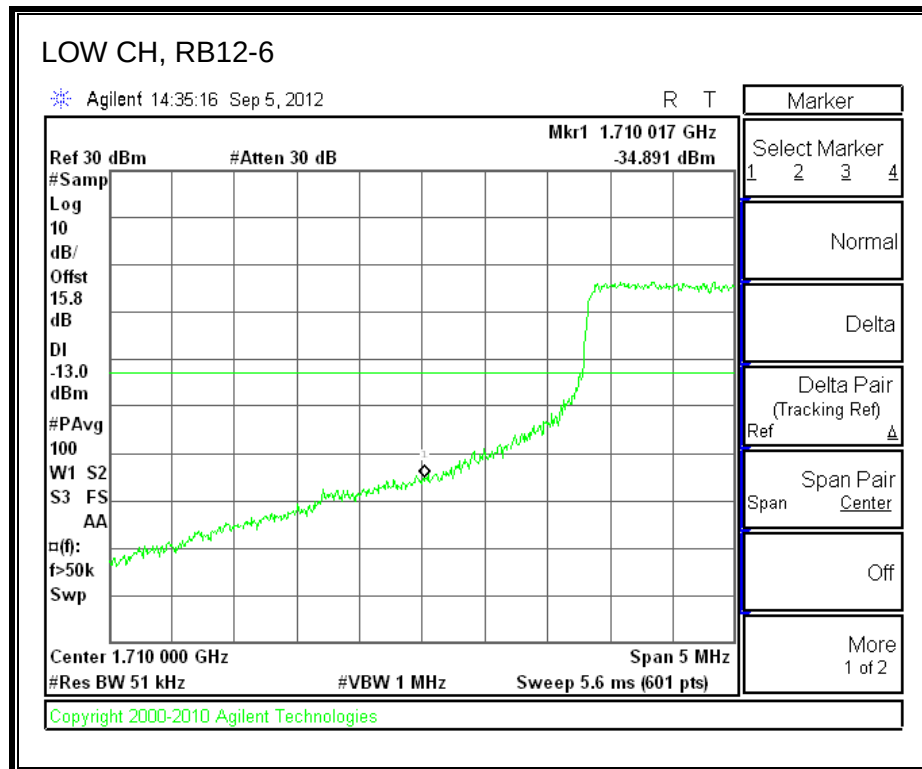


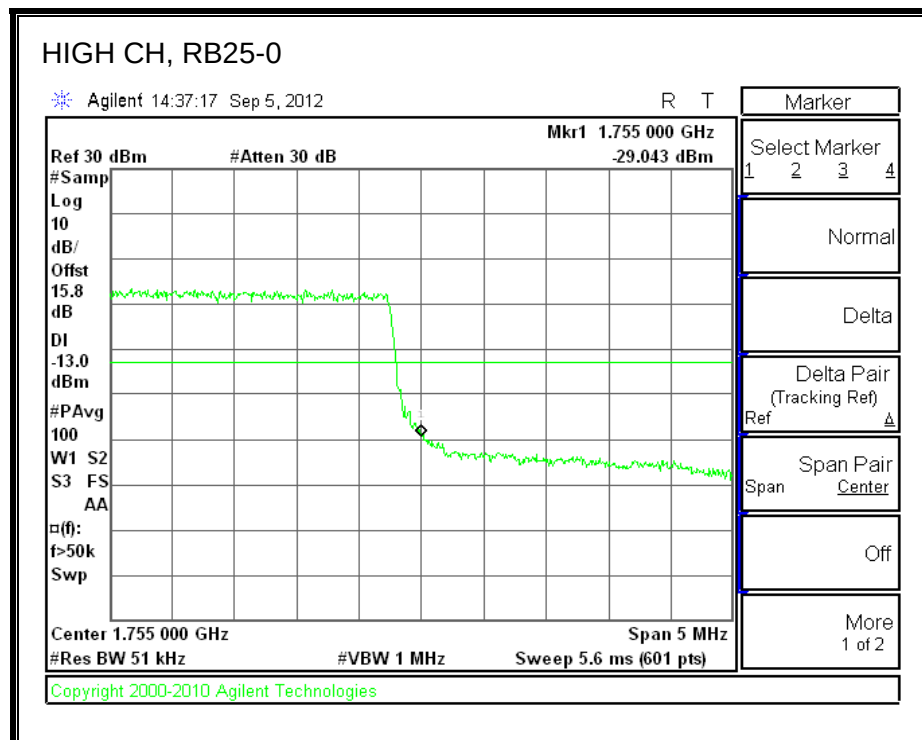
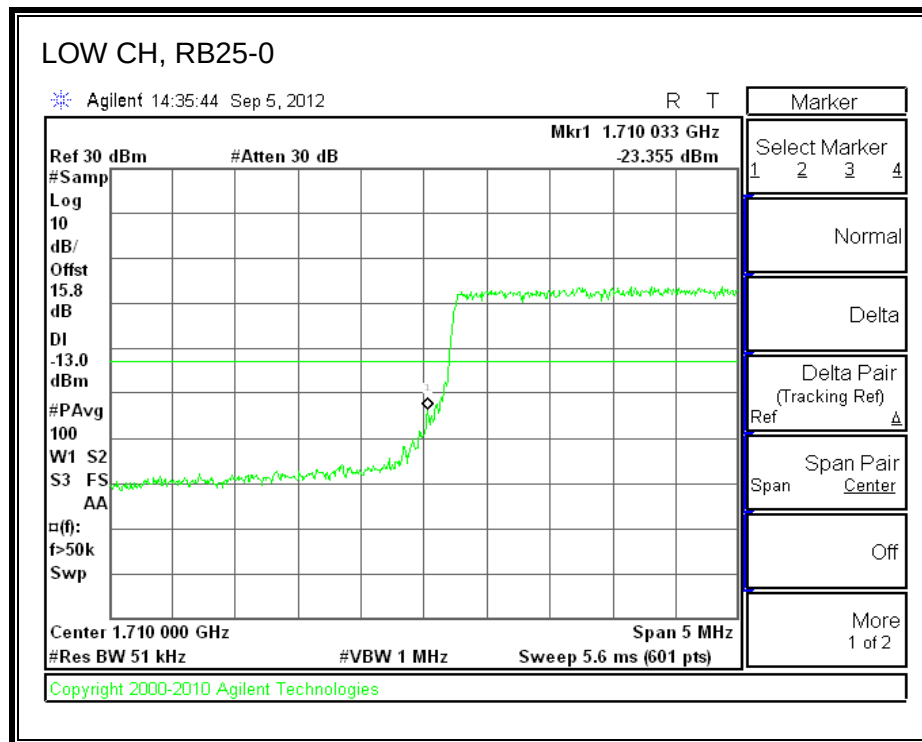


LTE 16QAM Band 4 (5 MHz BANDWIDTH)

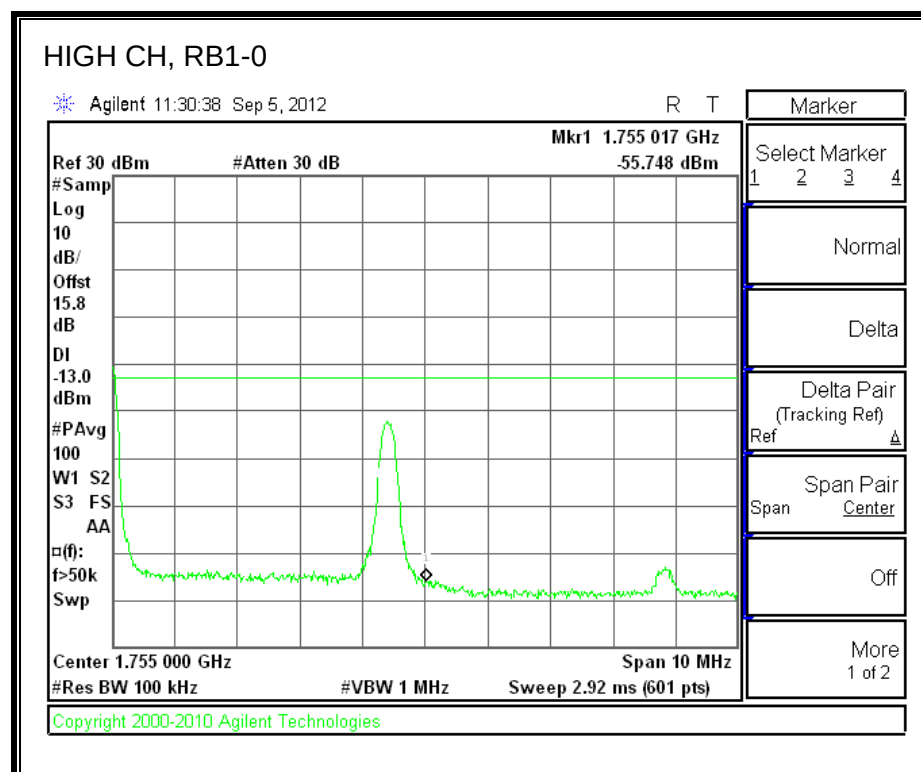
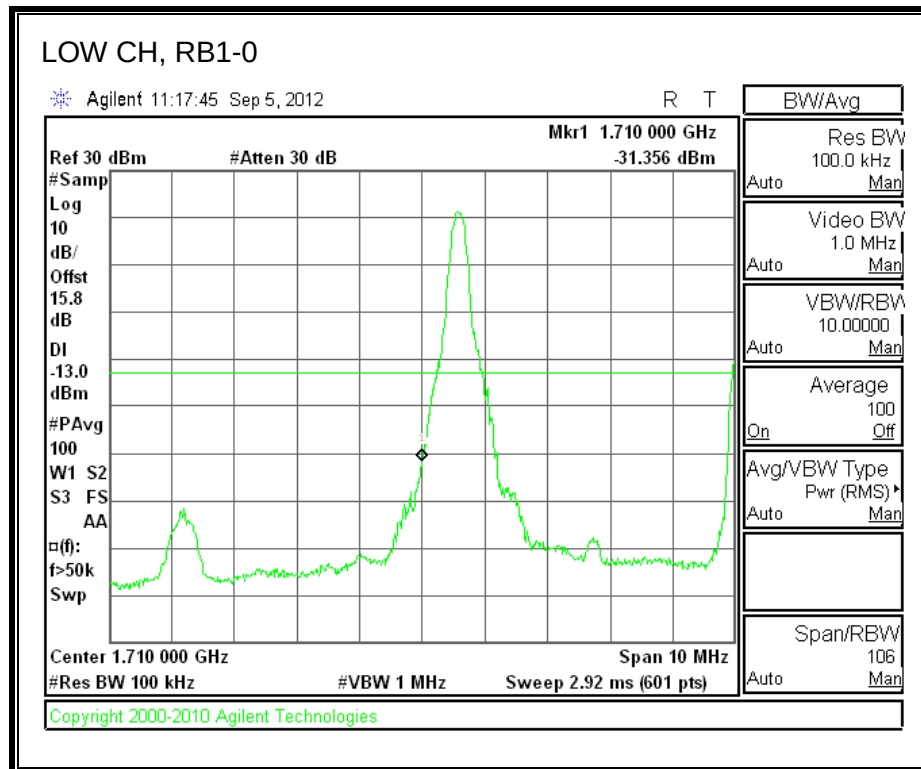


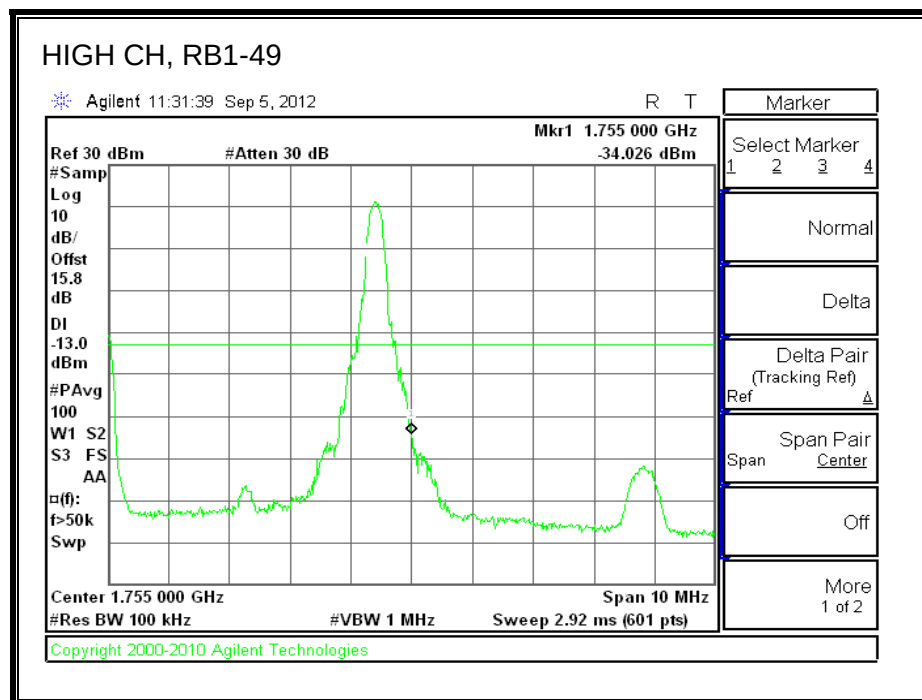
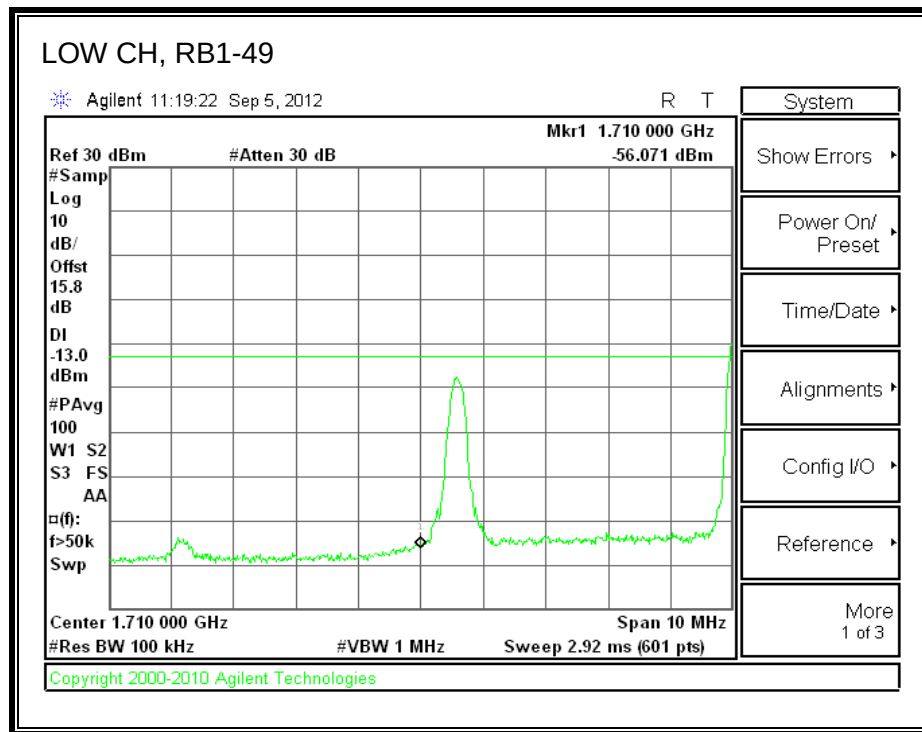


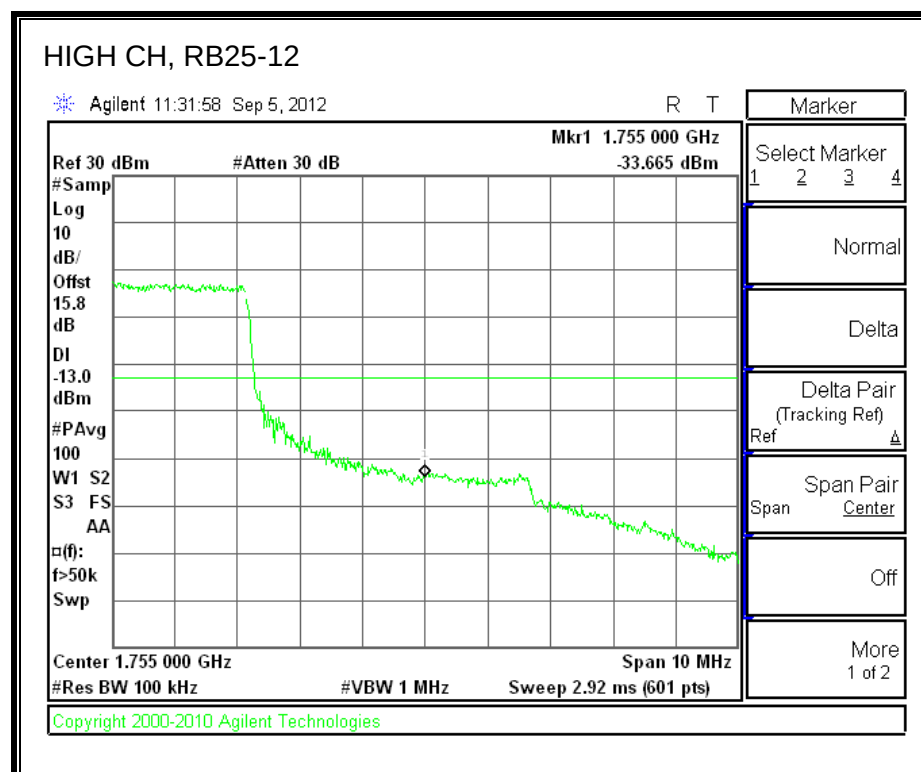
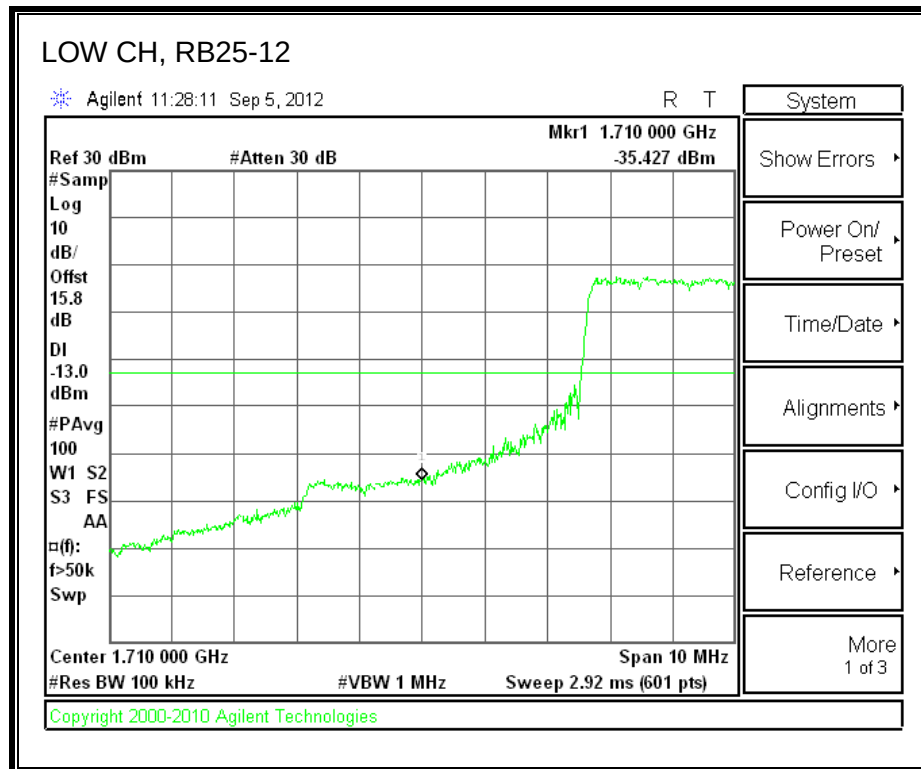


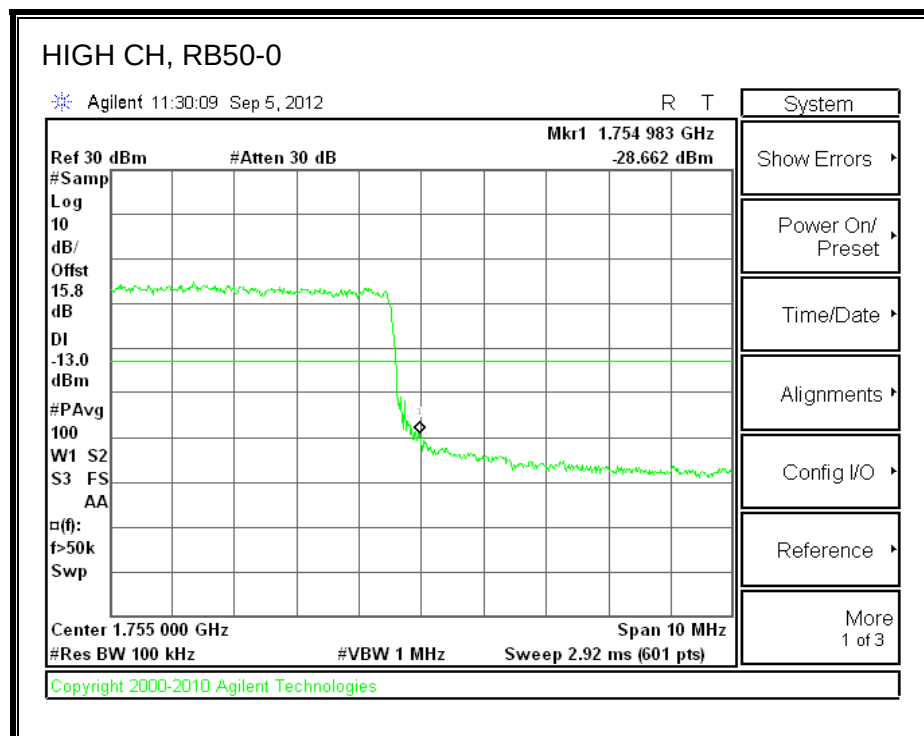
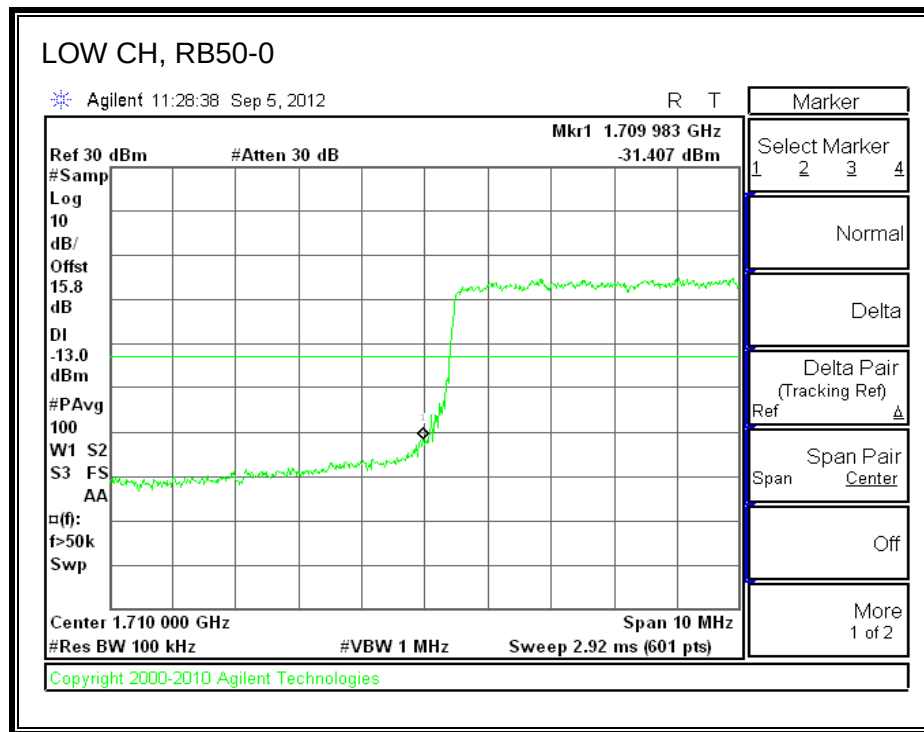


LTE QPSK Band 4 (10 MHz BANDWIDTH)

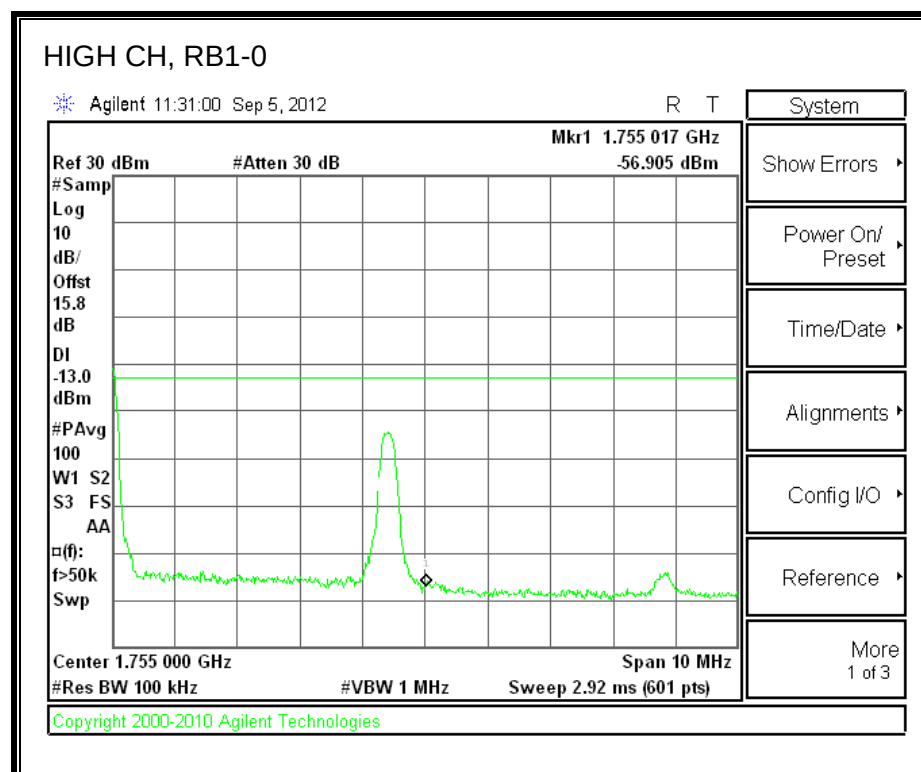
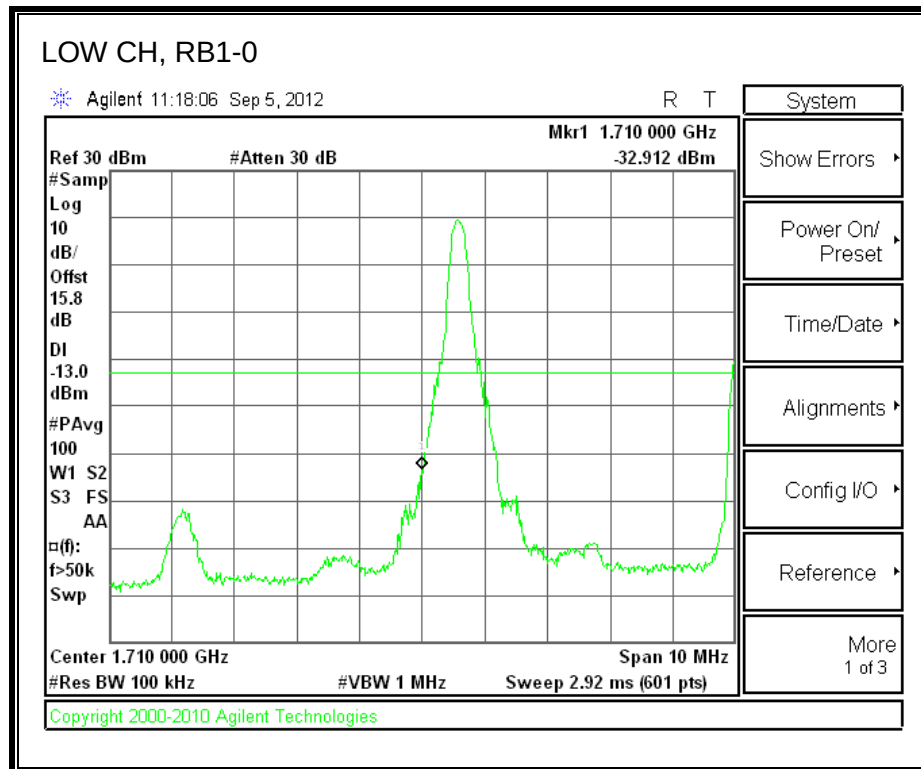


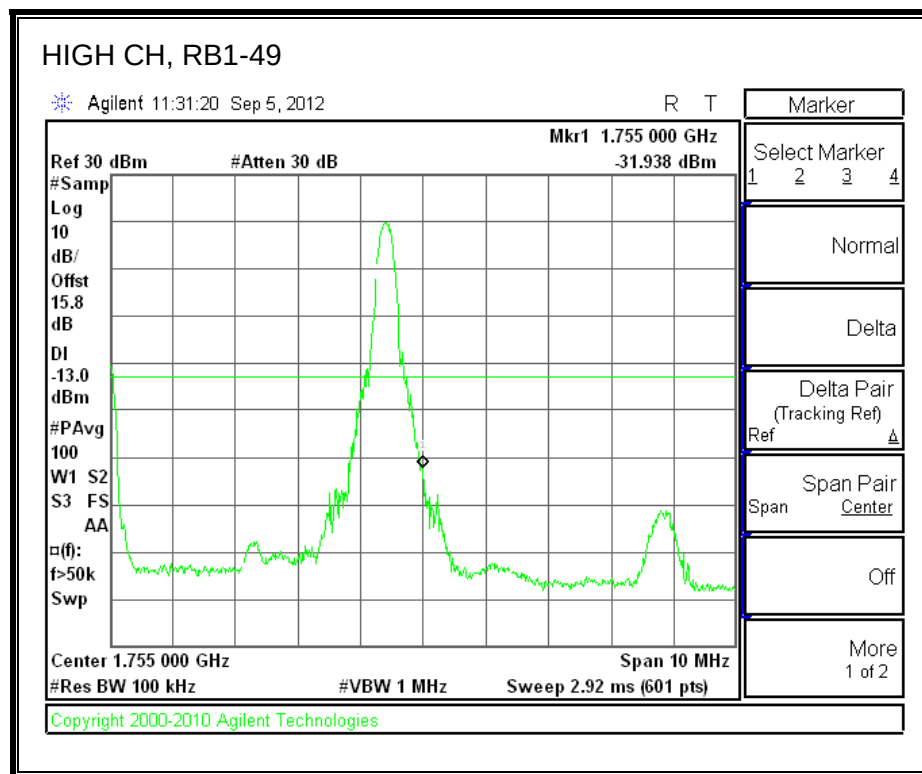
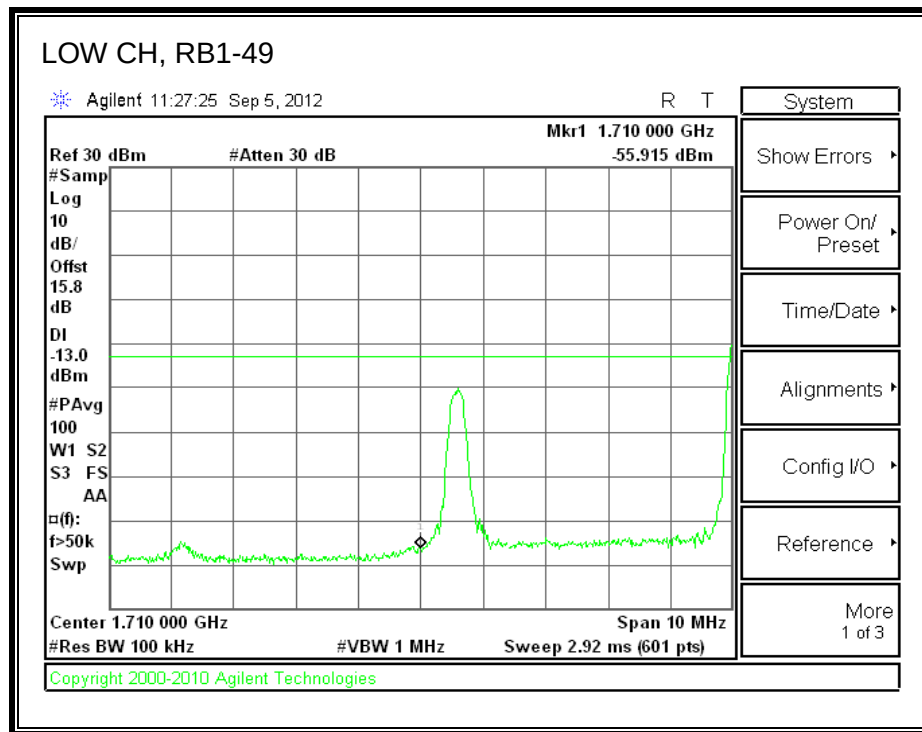


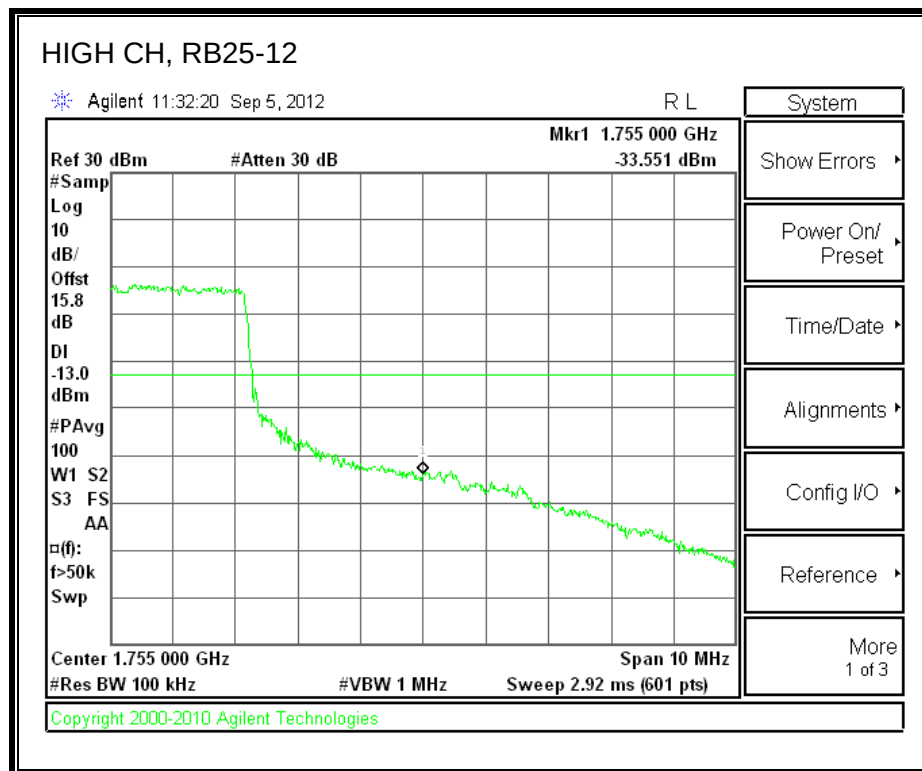
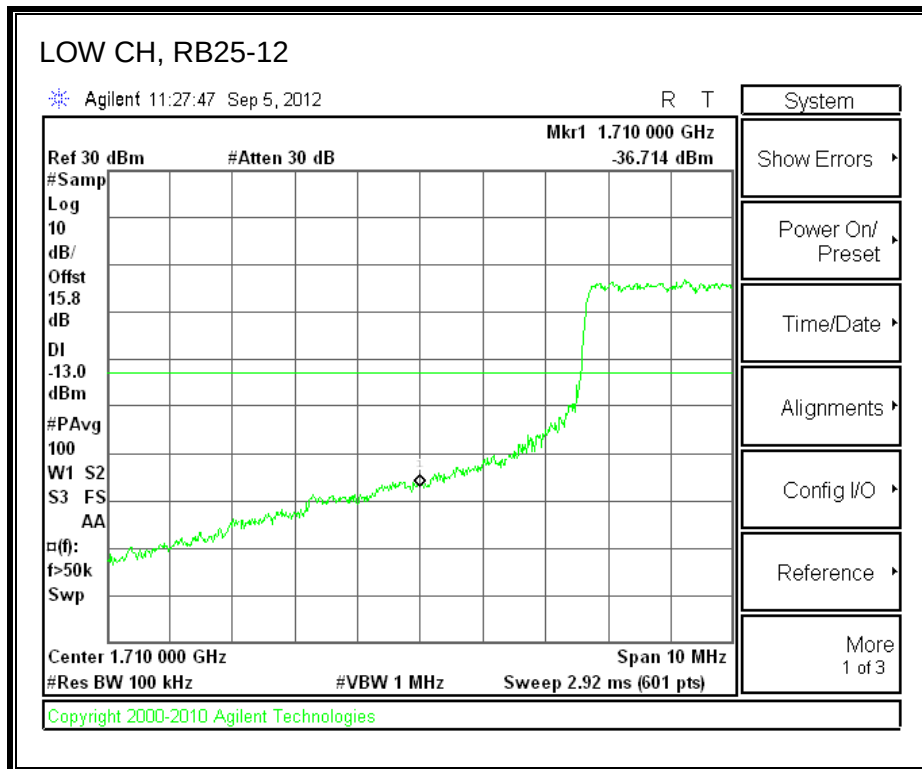


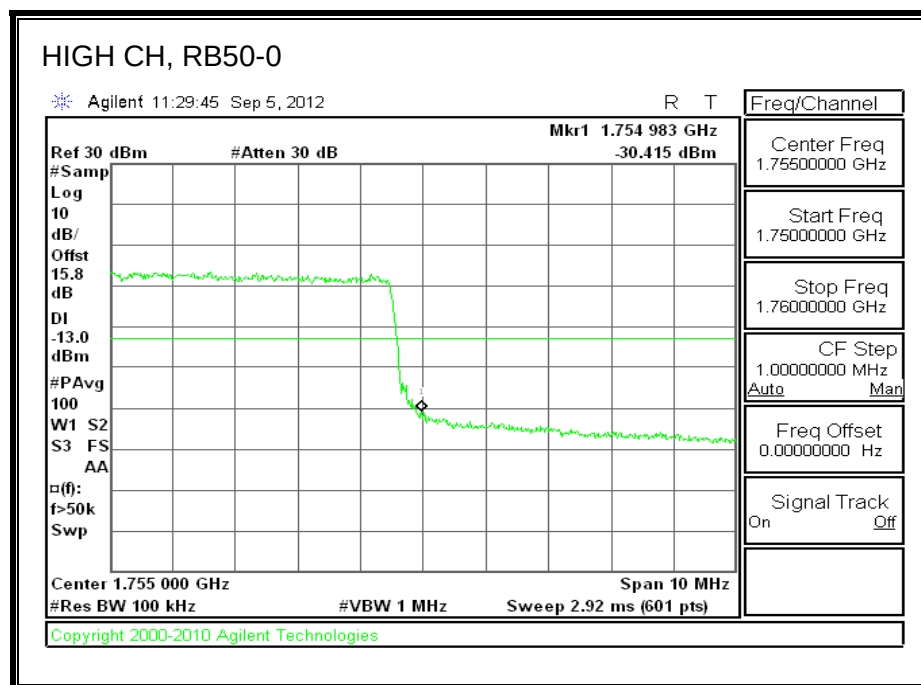
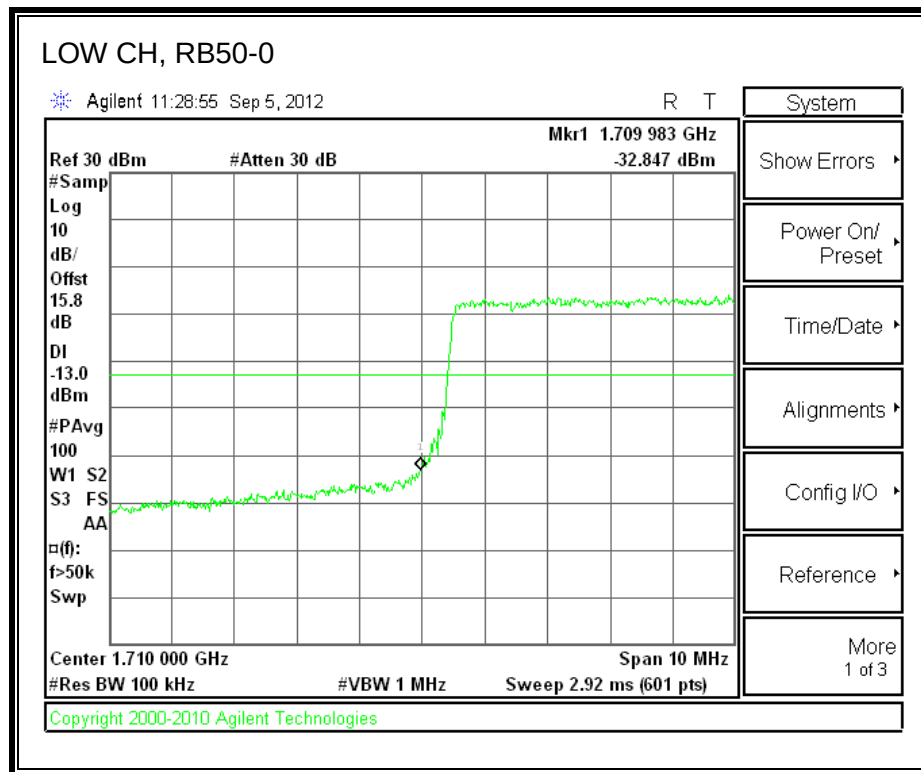


LTE 16QAM Band 4 (10 MHz BANDWIDTH)

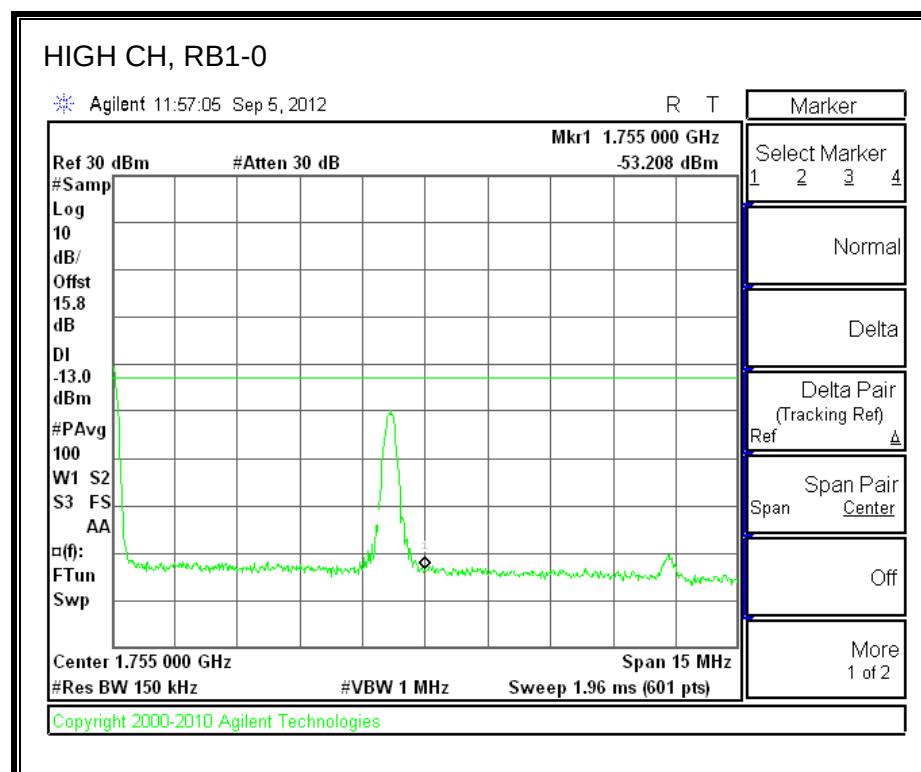
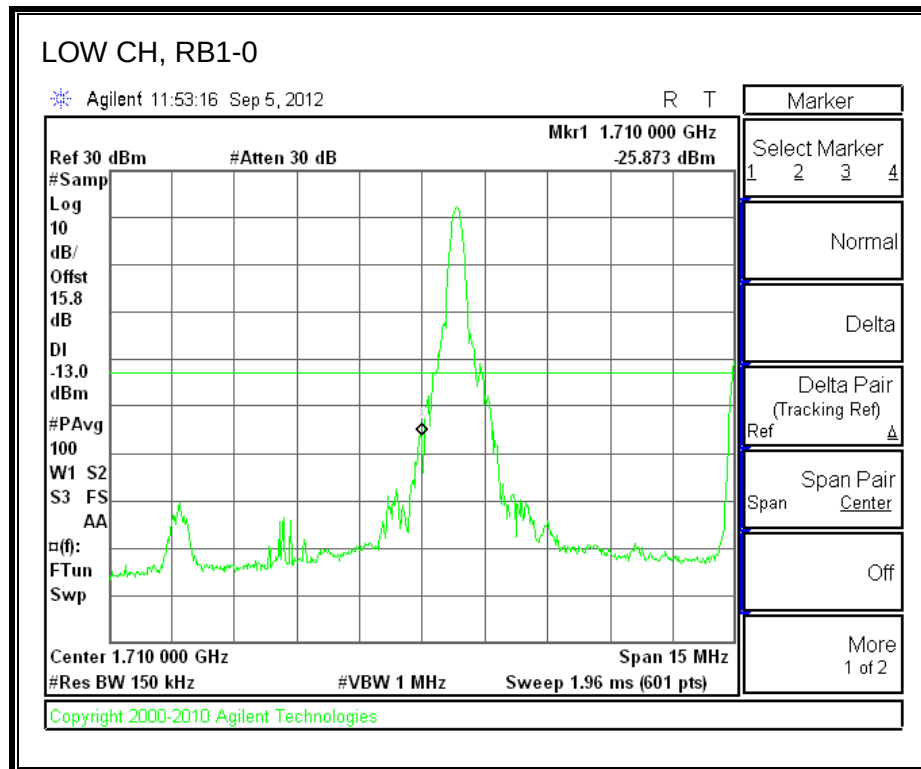


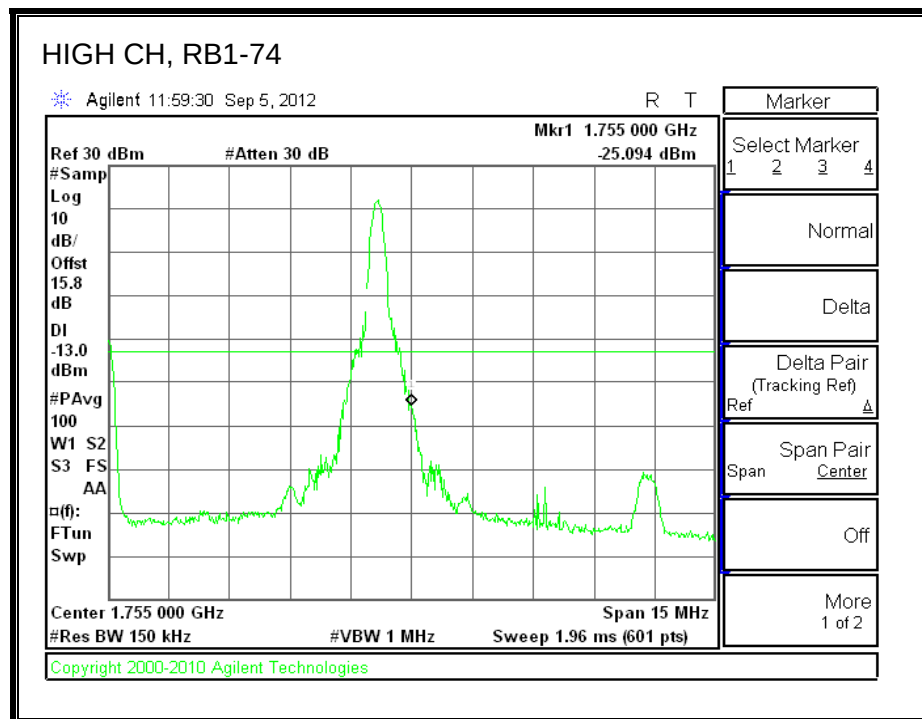
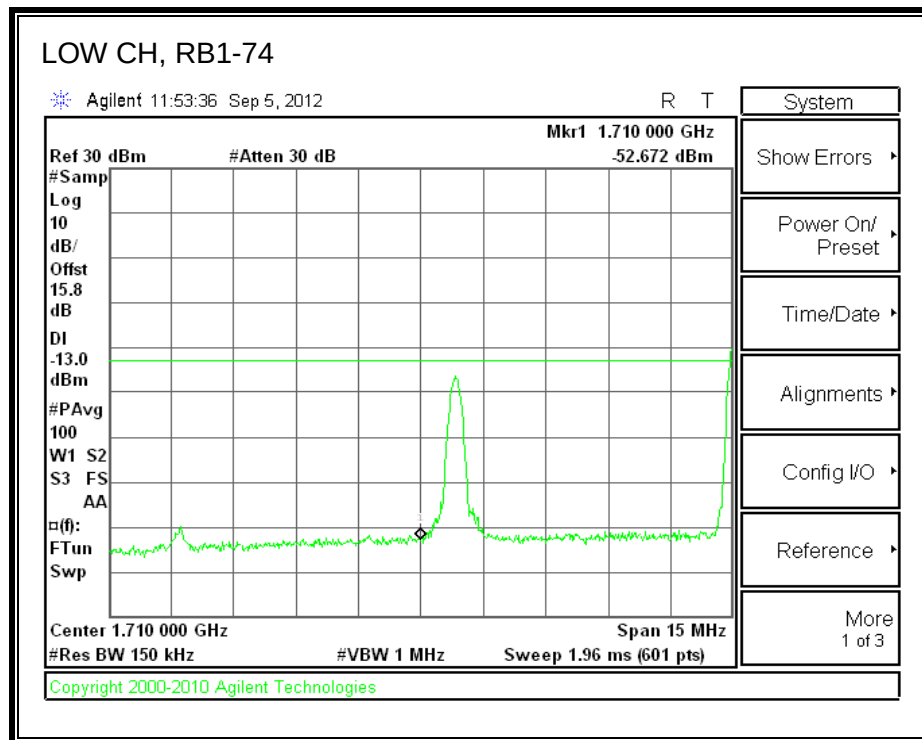


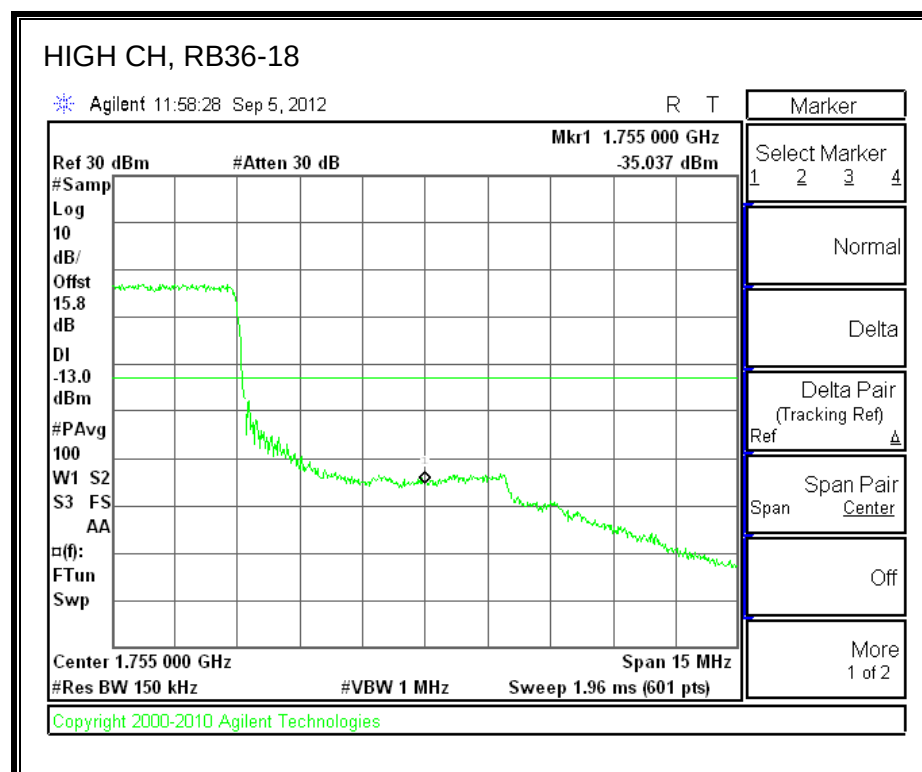
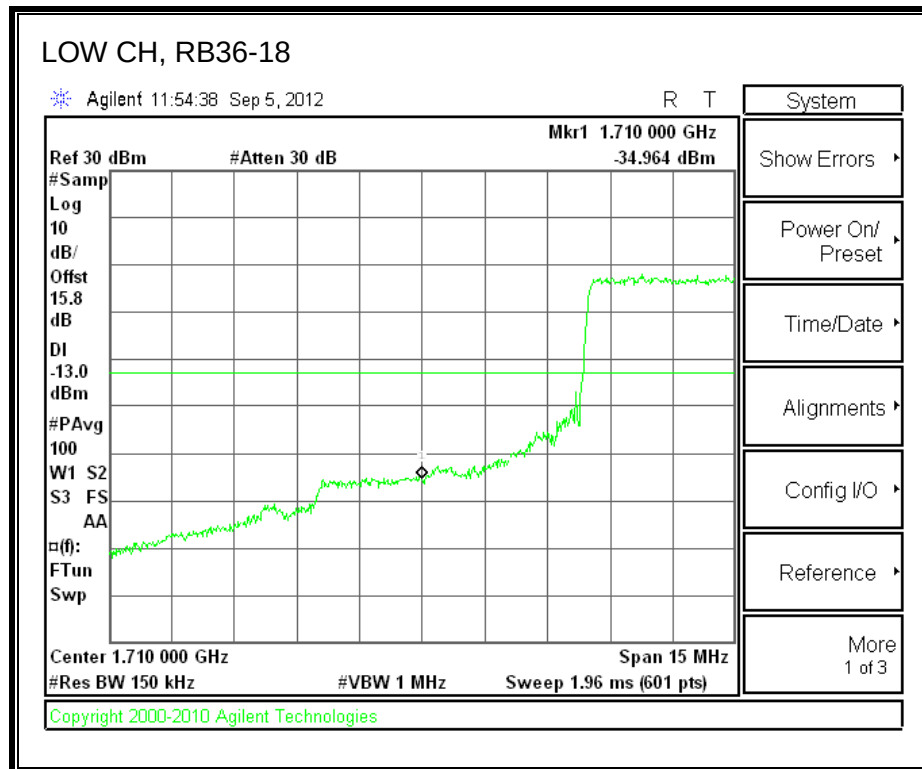


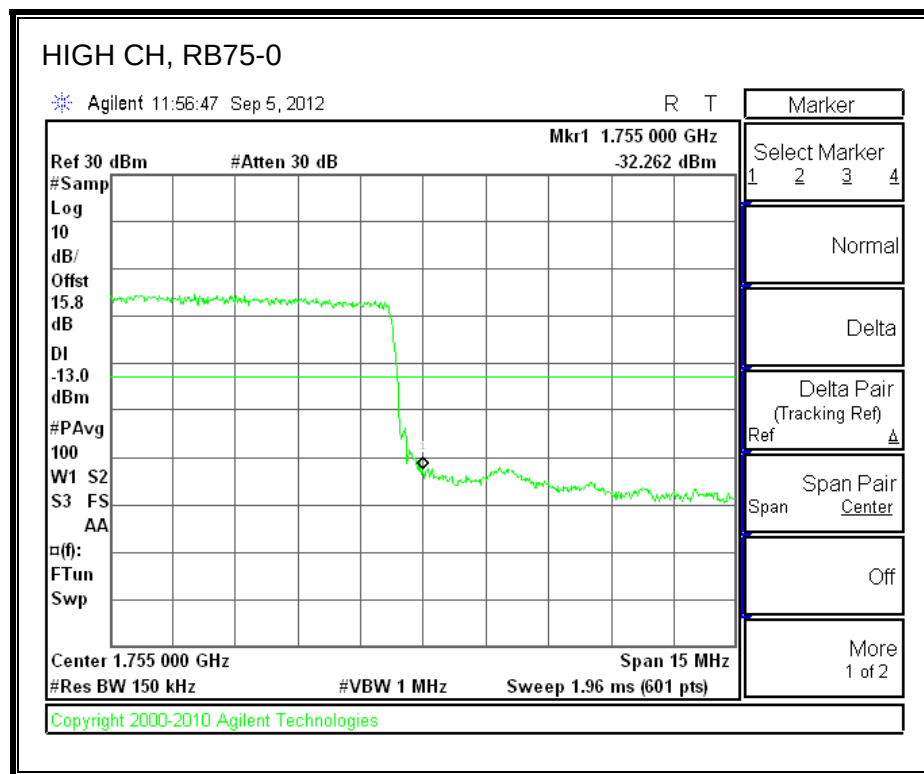
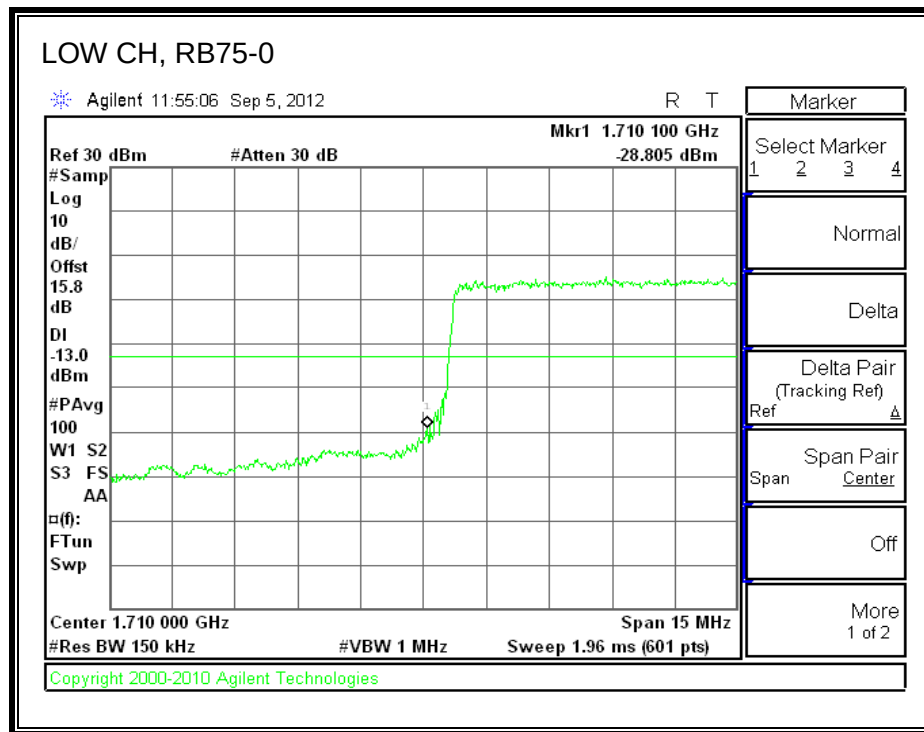


LTE QPSK Band 4 (15 MHz BANDWIDTH)

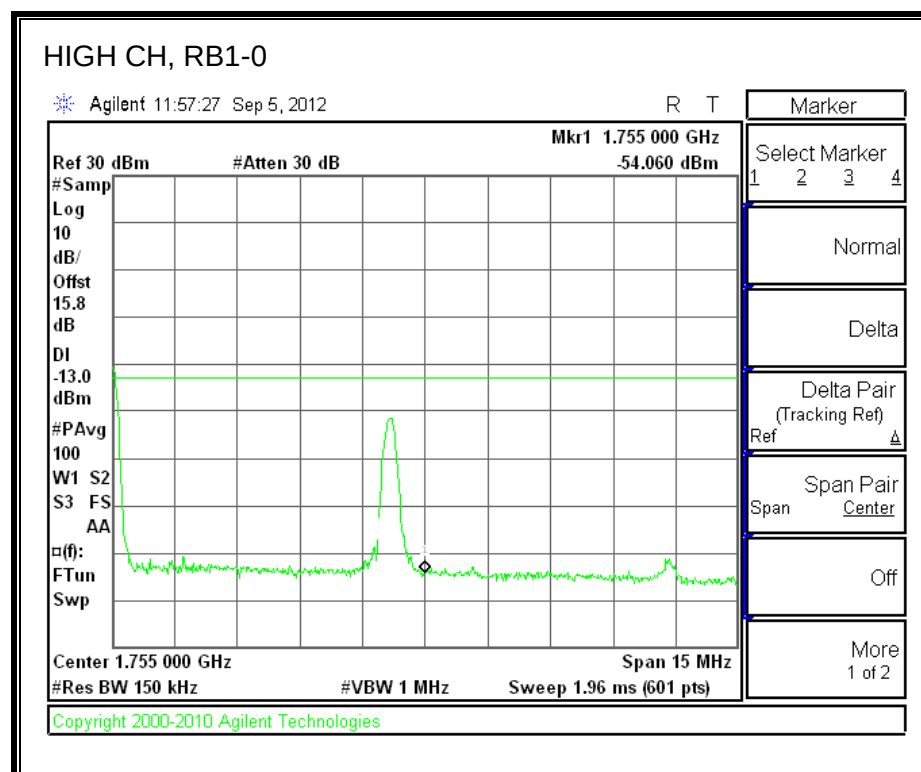
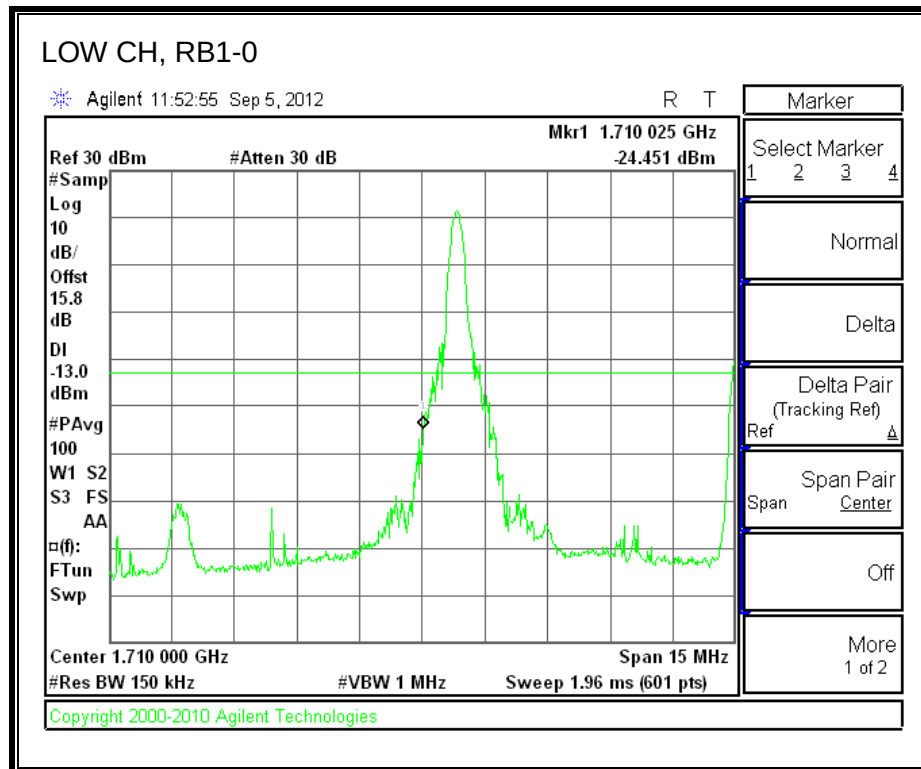


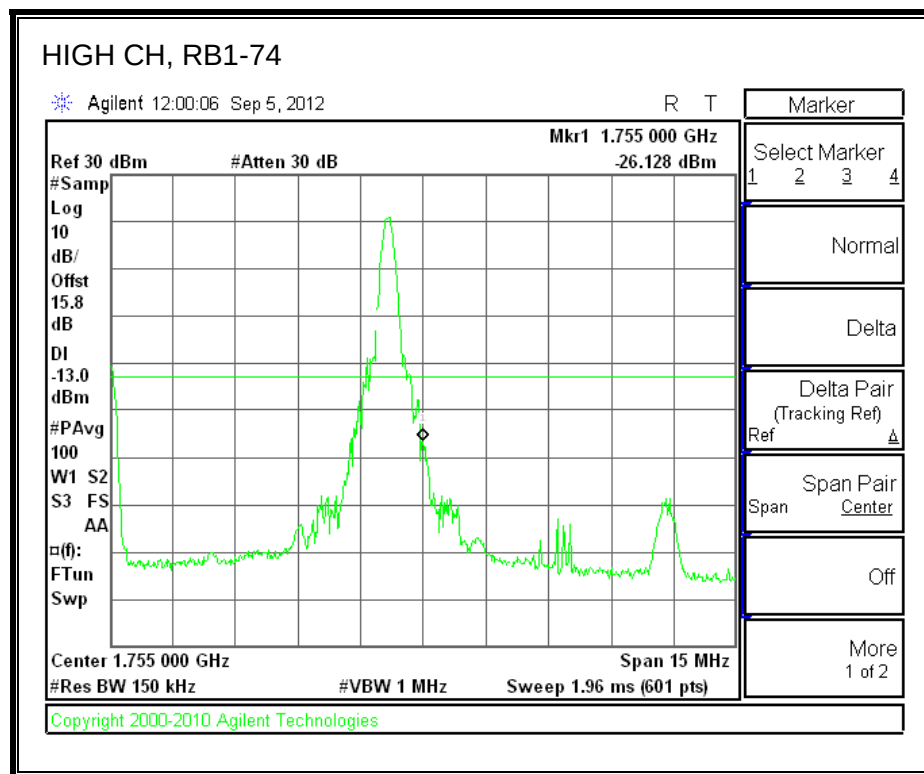
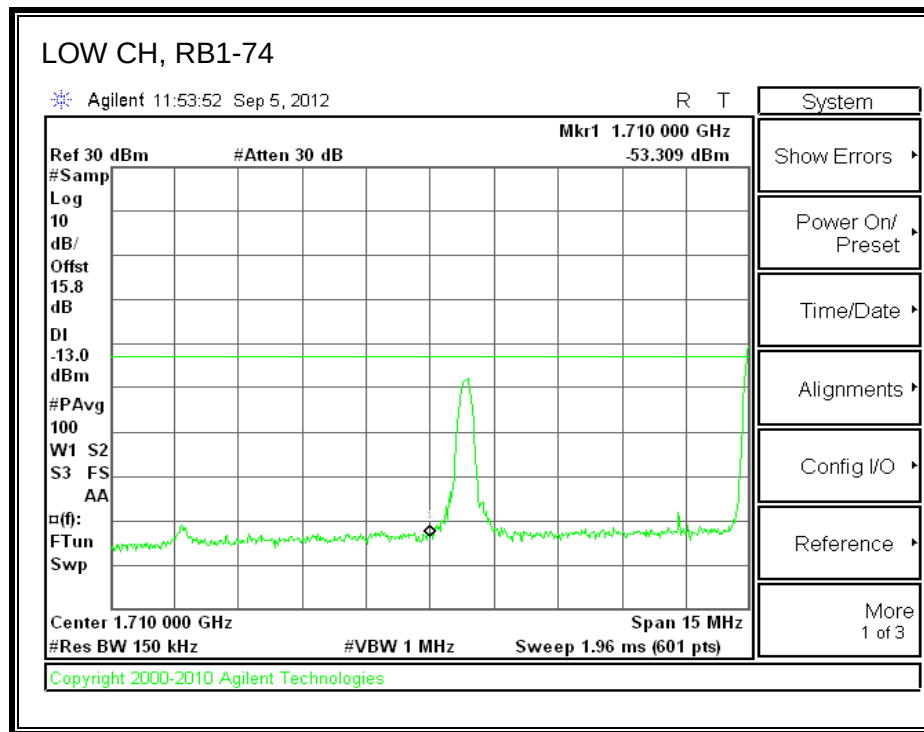


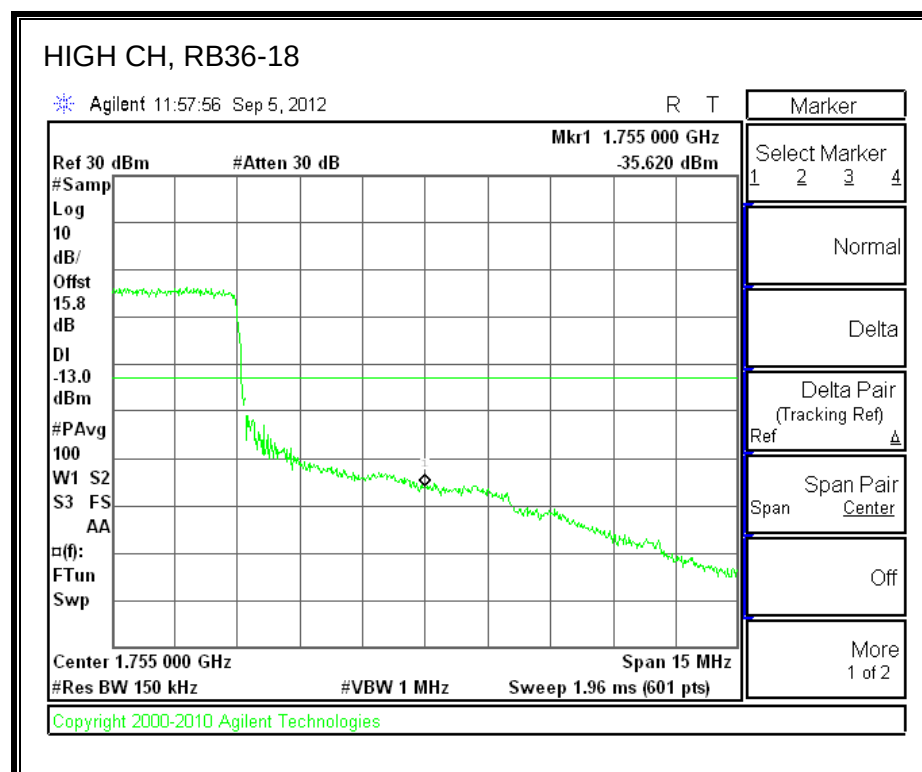
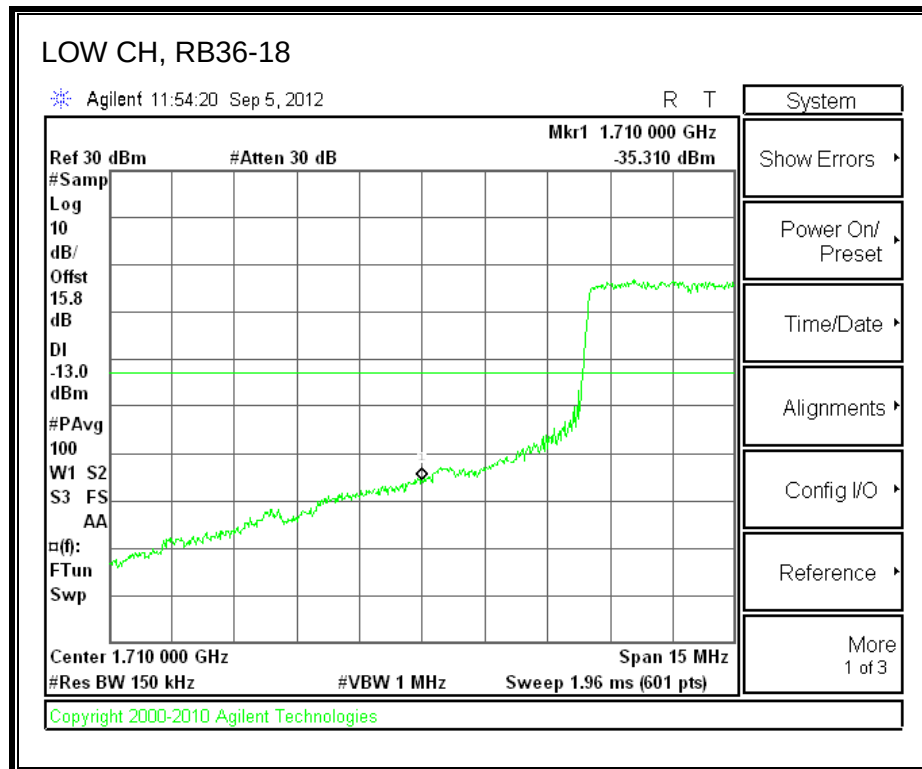


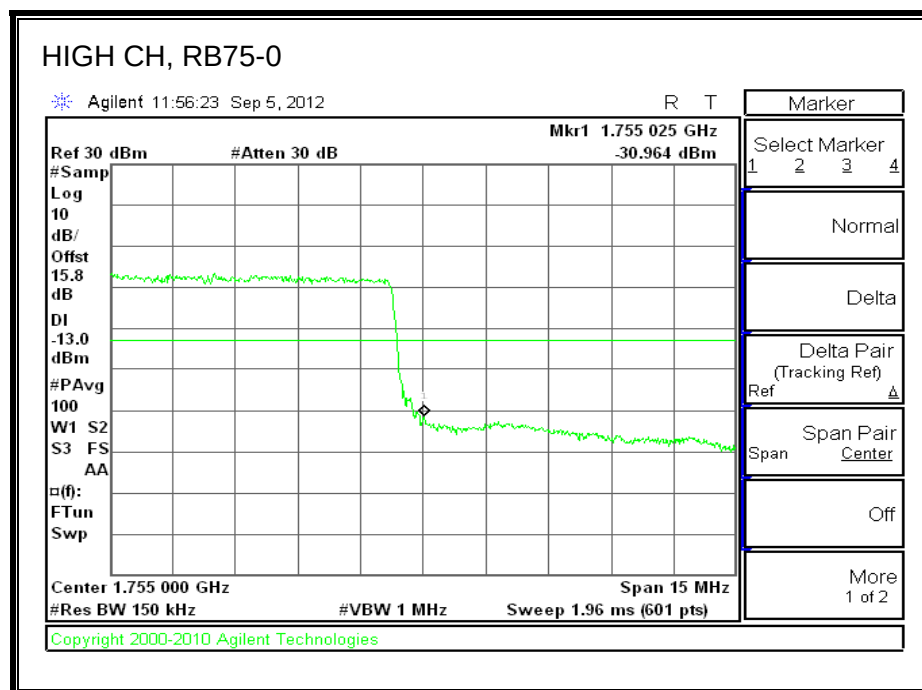
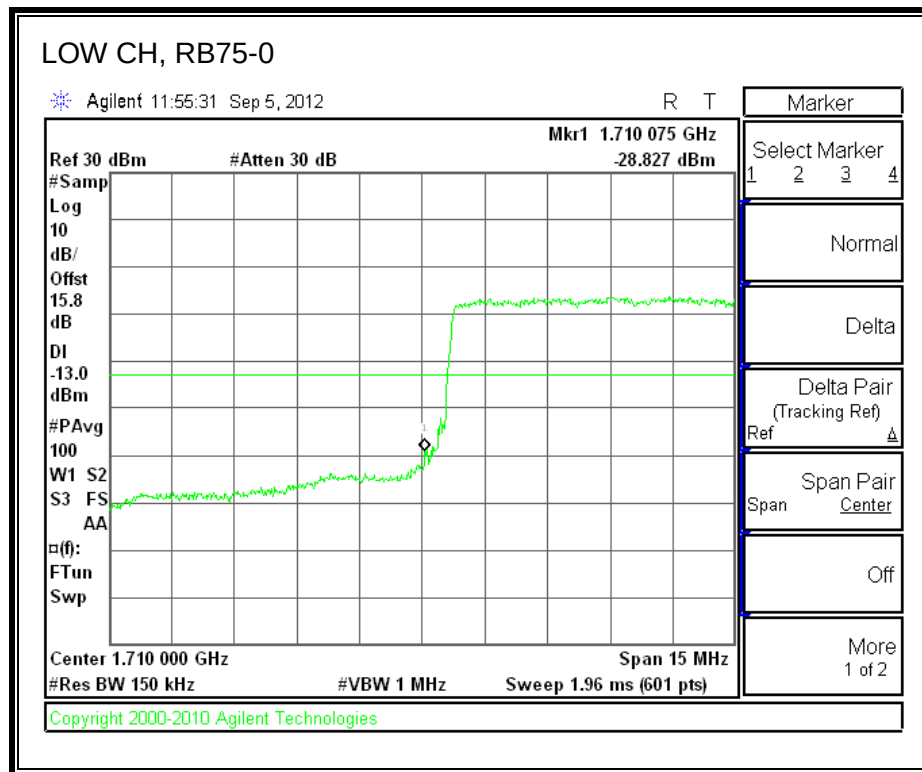


LTE 16QAM Band 4 (15 MHz BANDWIDTH)

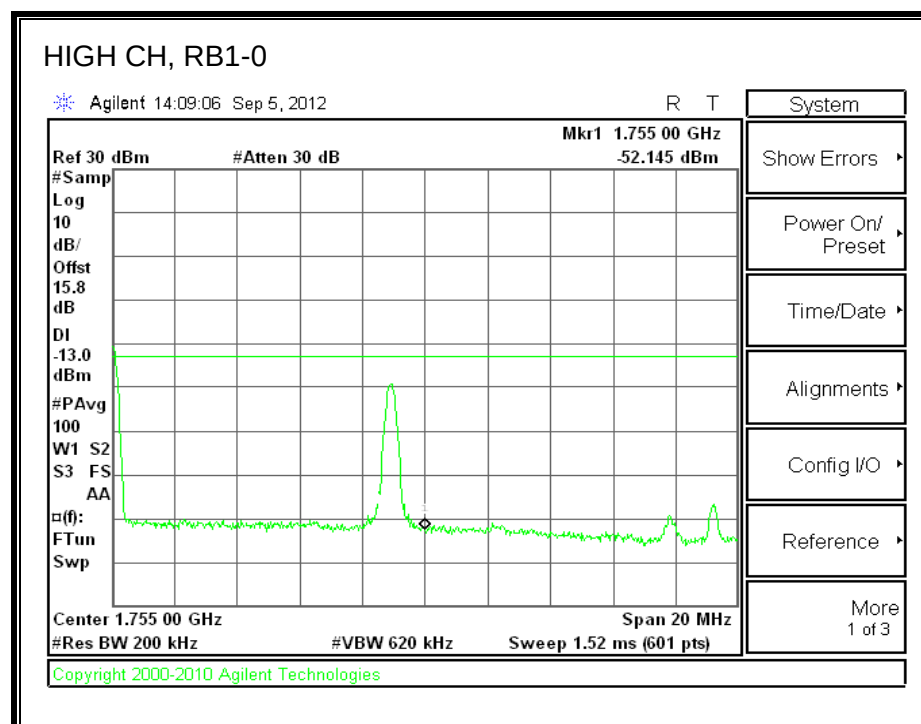
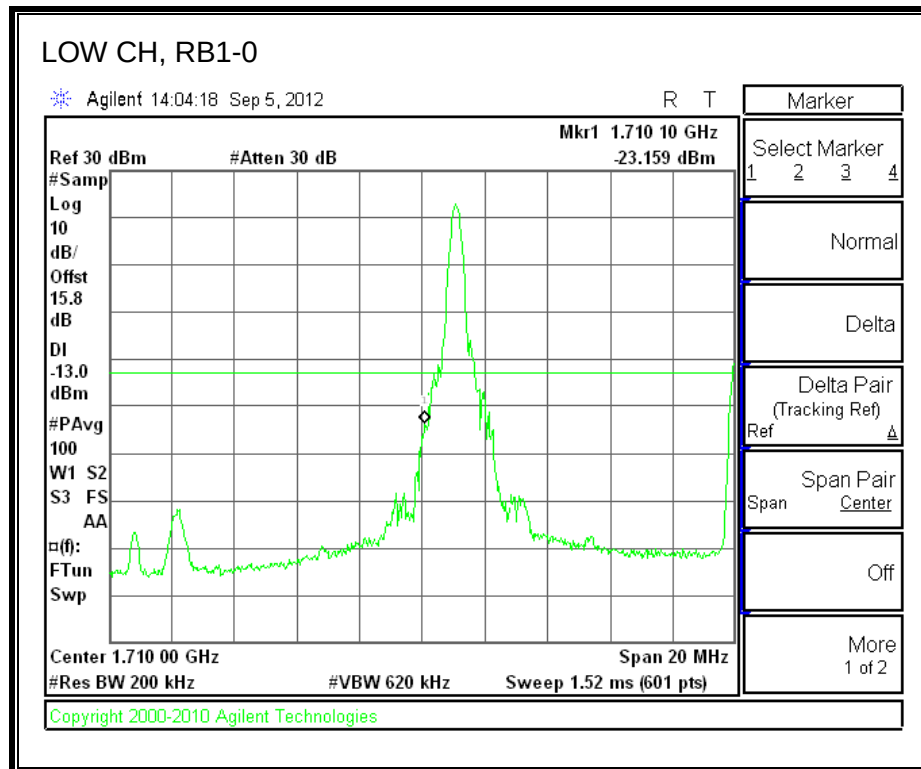


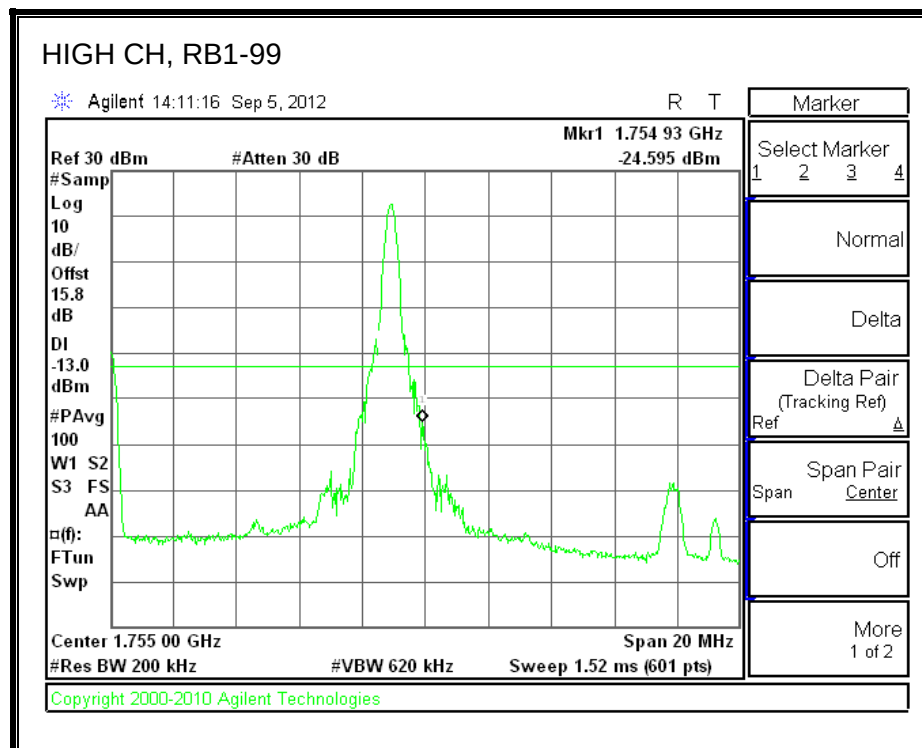
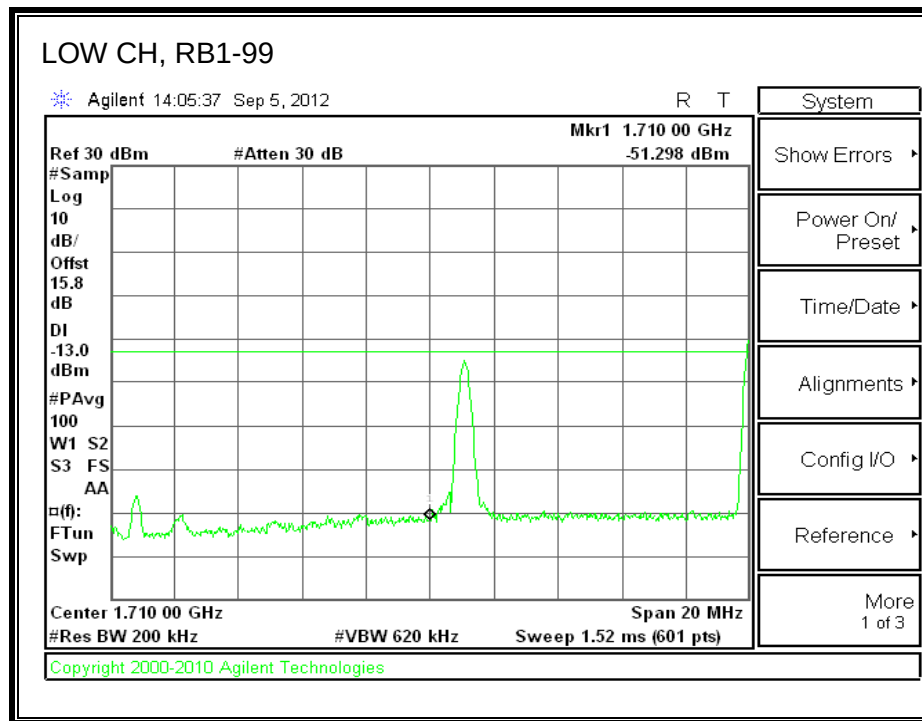


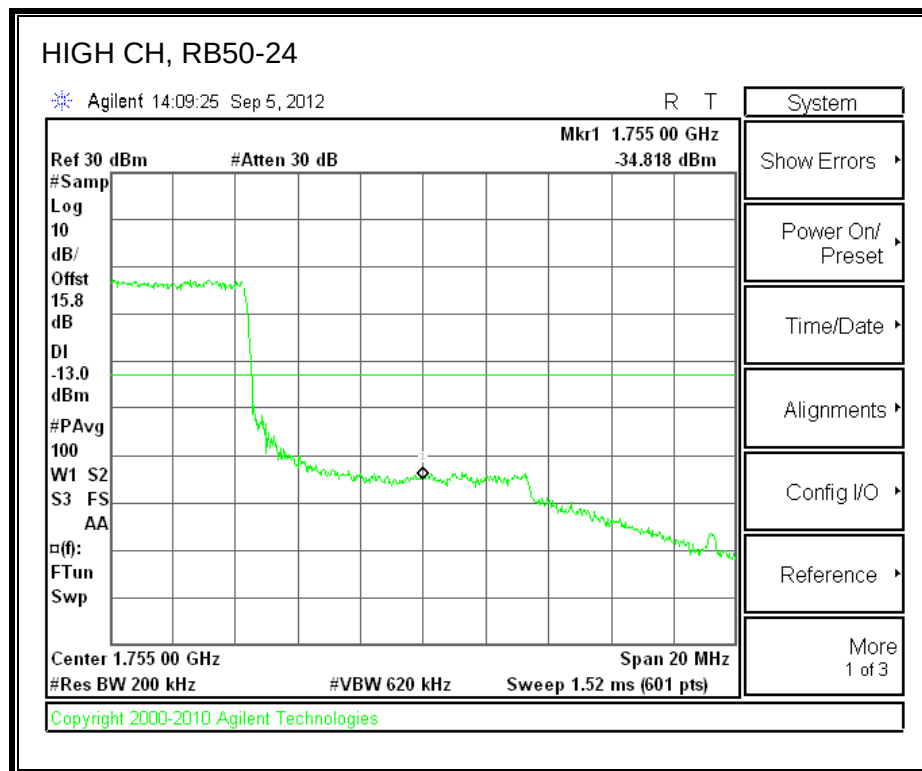
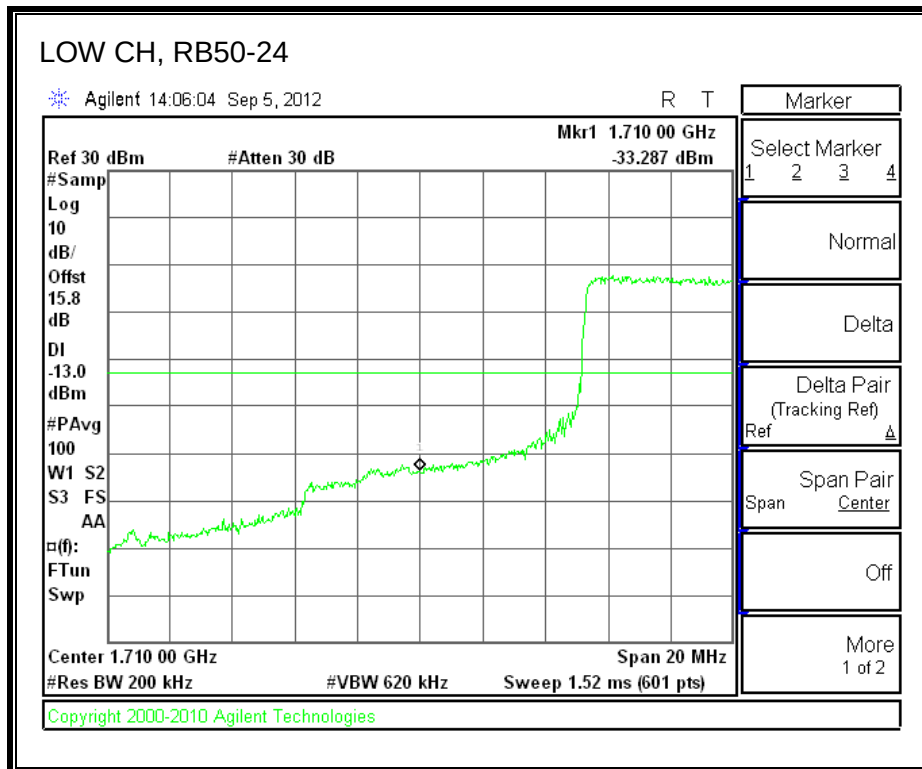


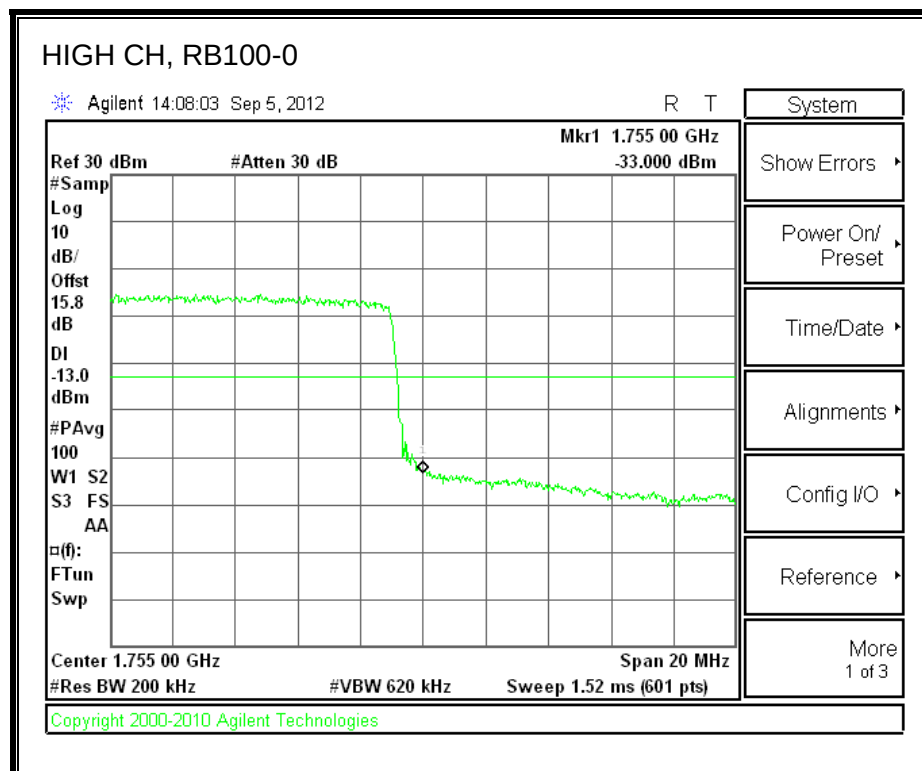
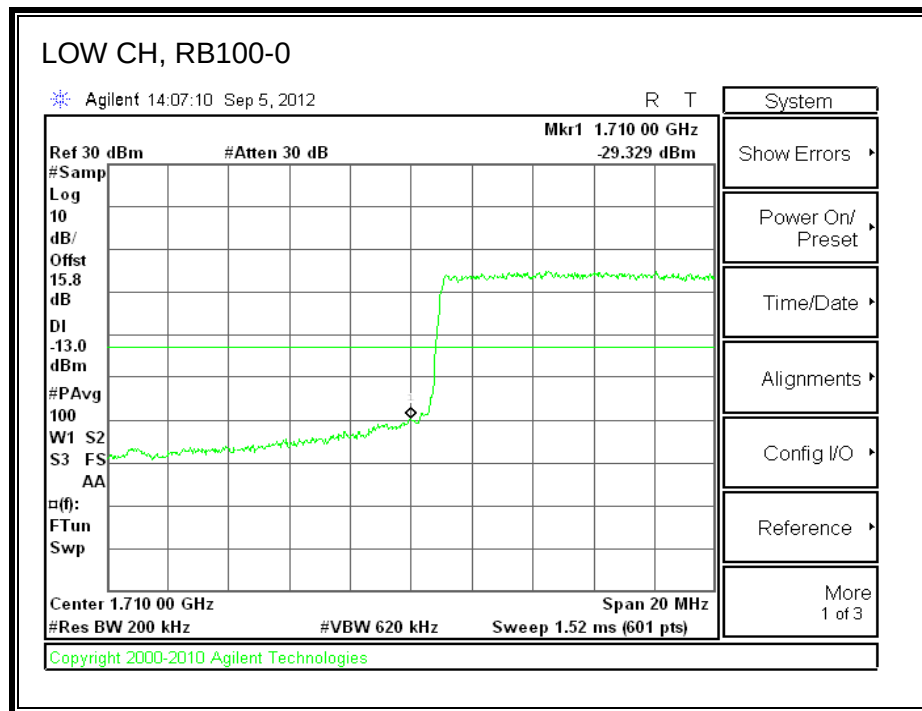


LTE QPSK Band 4 (20 MHz BANDWIDTH)

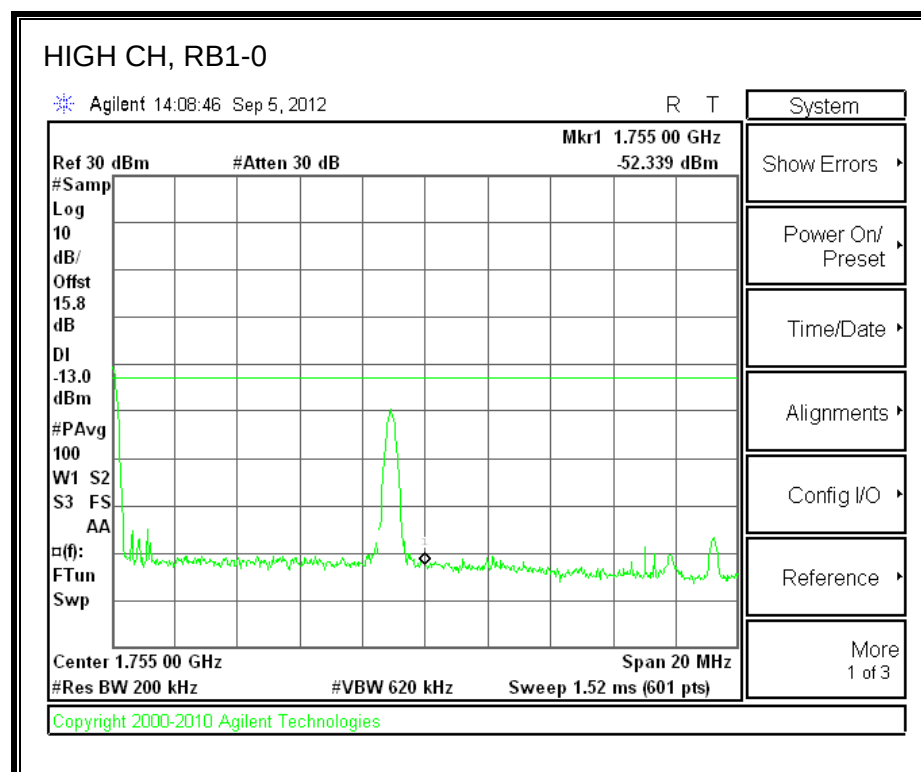
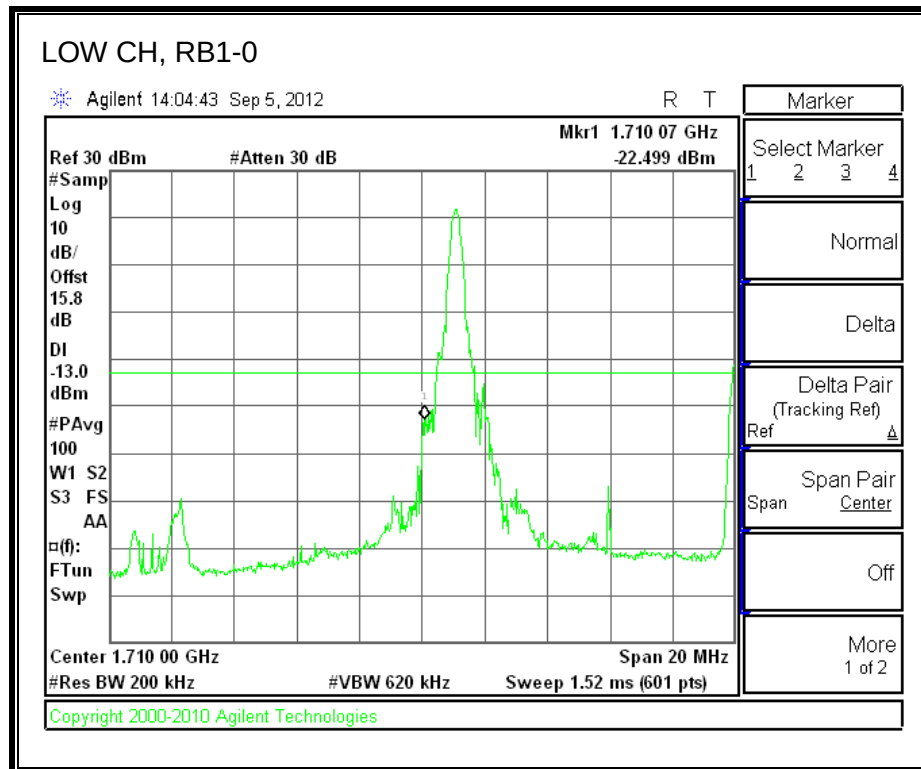


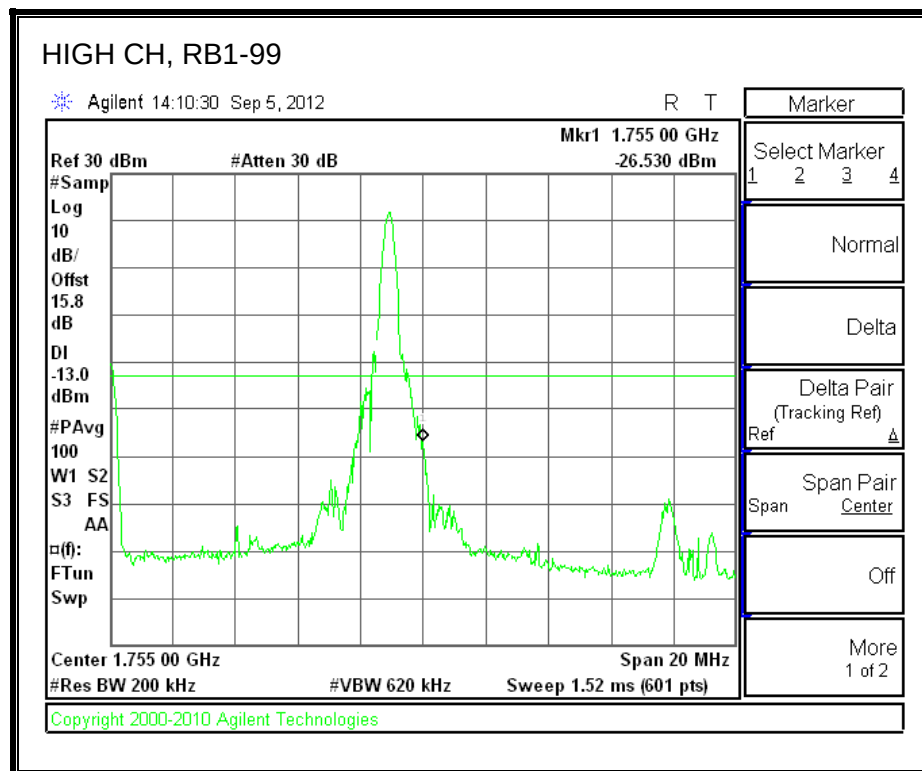
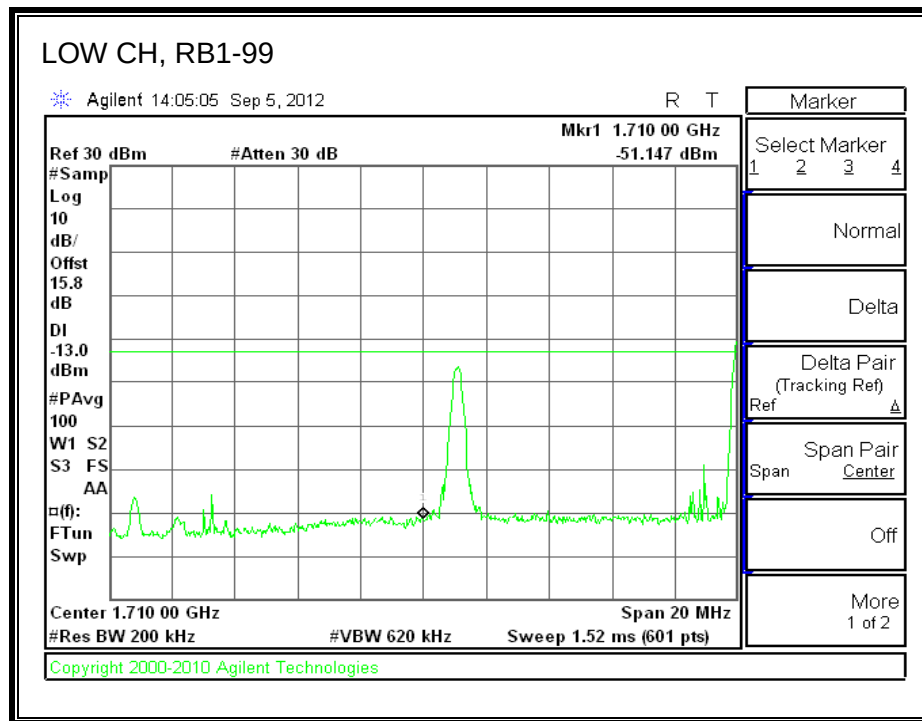


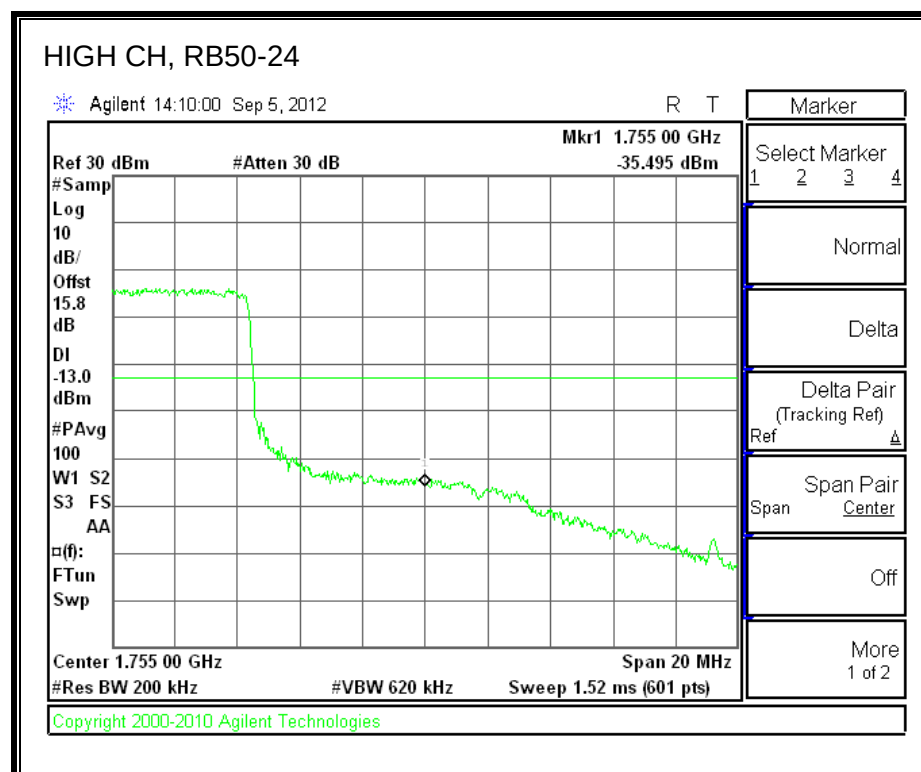
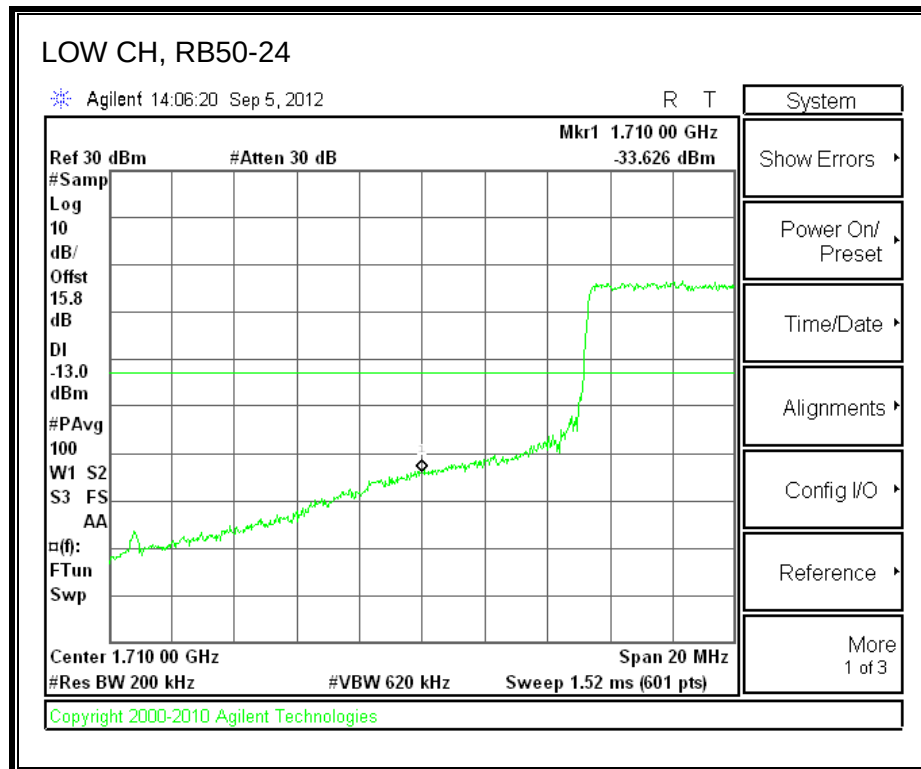


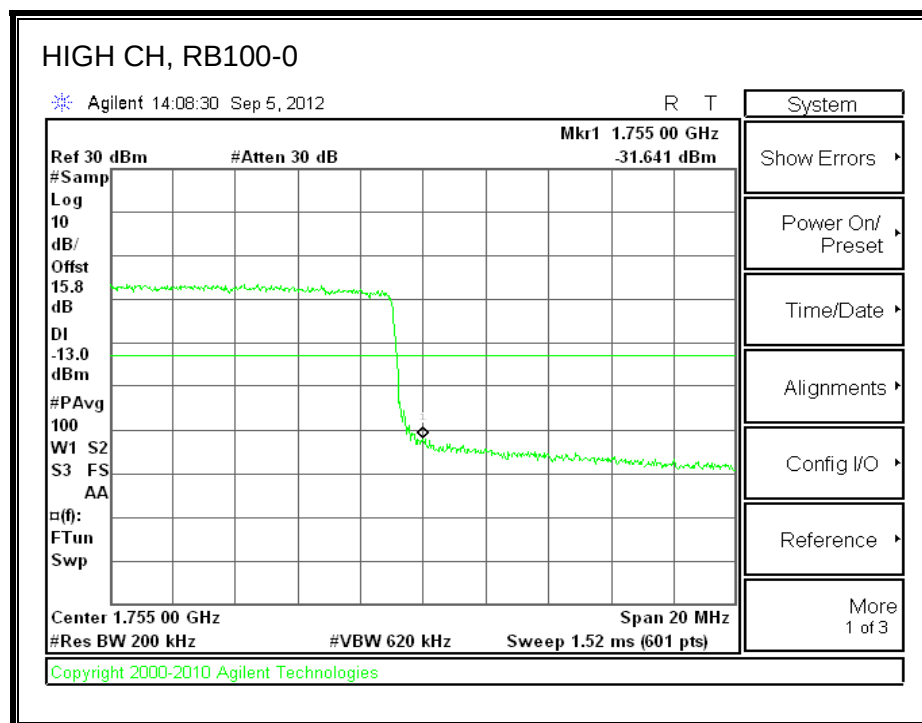
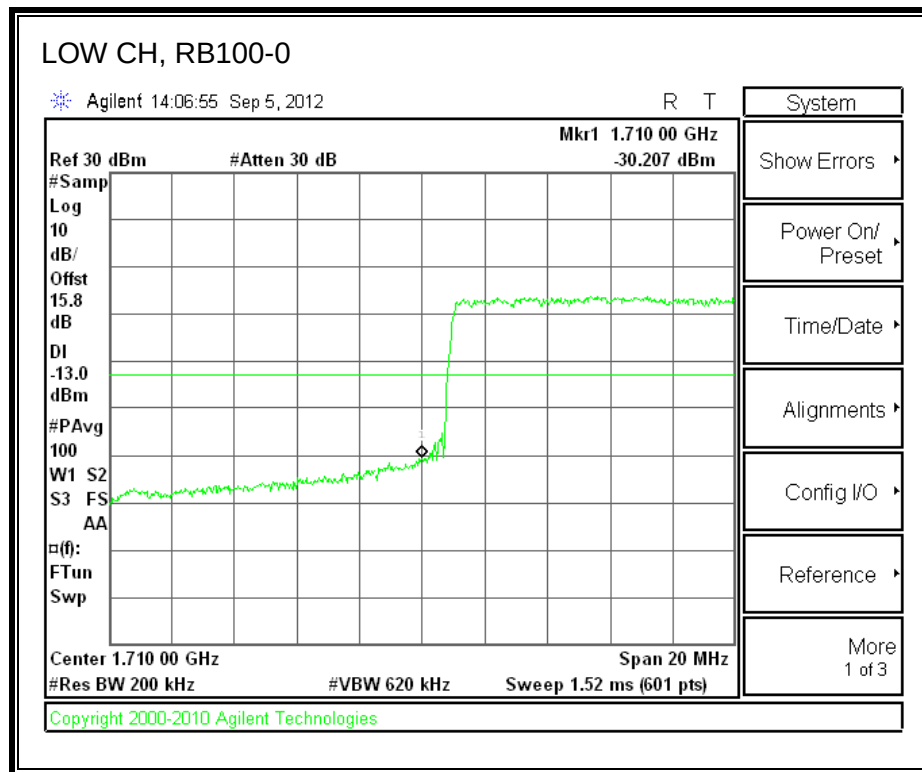


LTE 16QAM Band 4 (20 MHz BANDWIDTH)



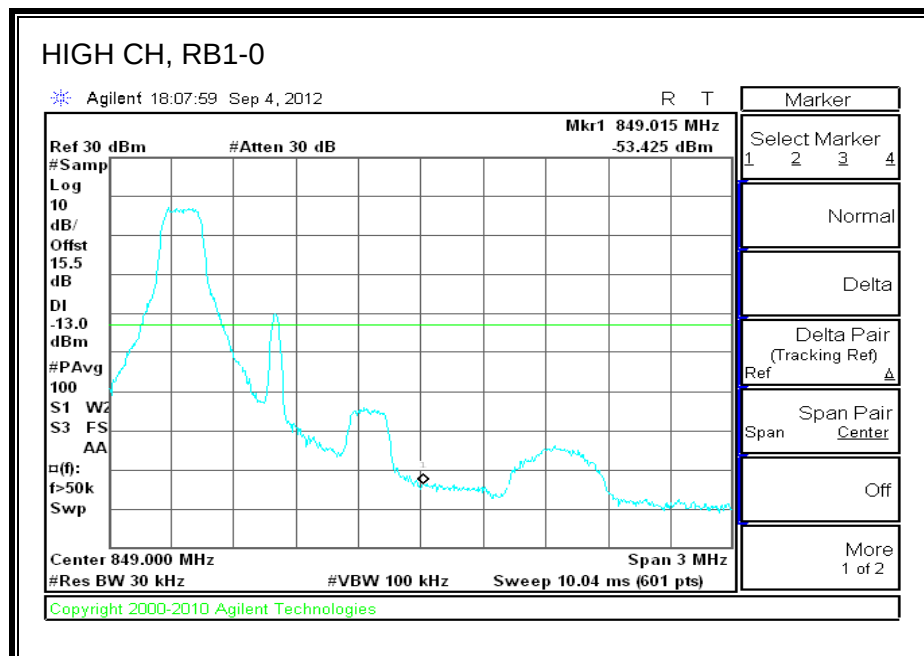
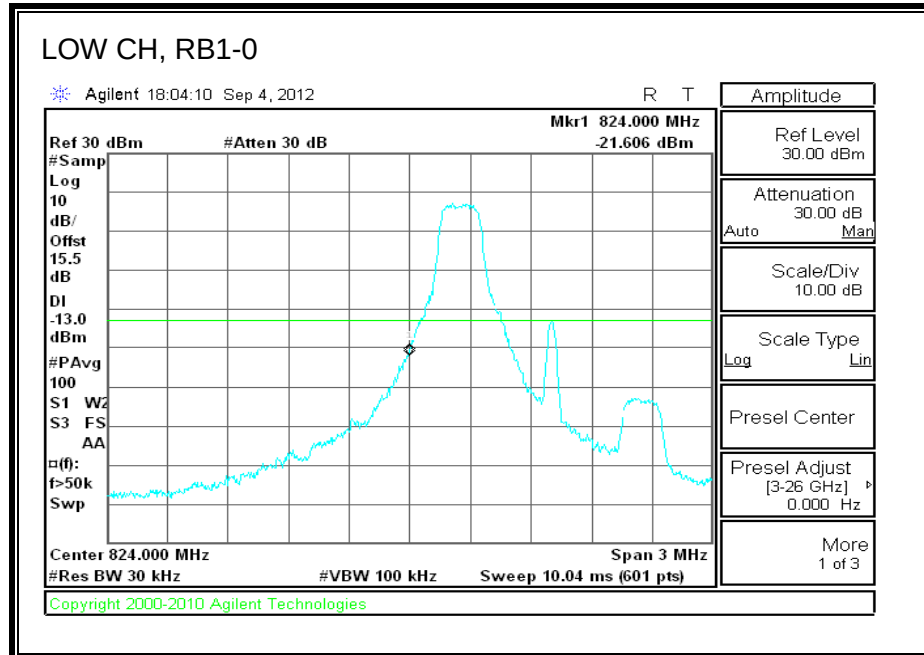


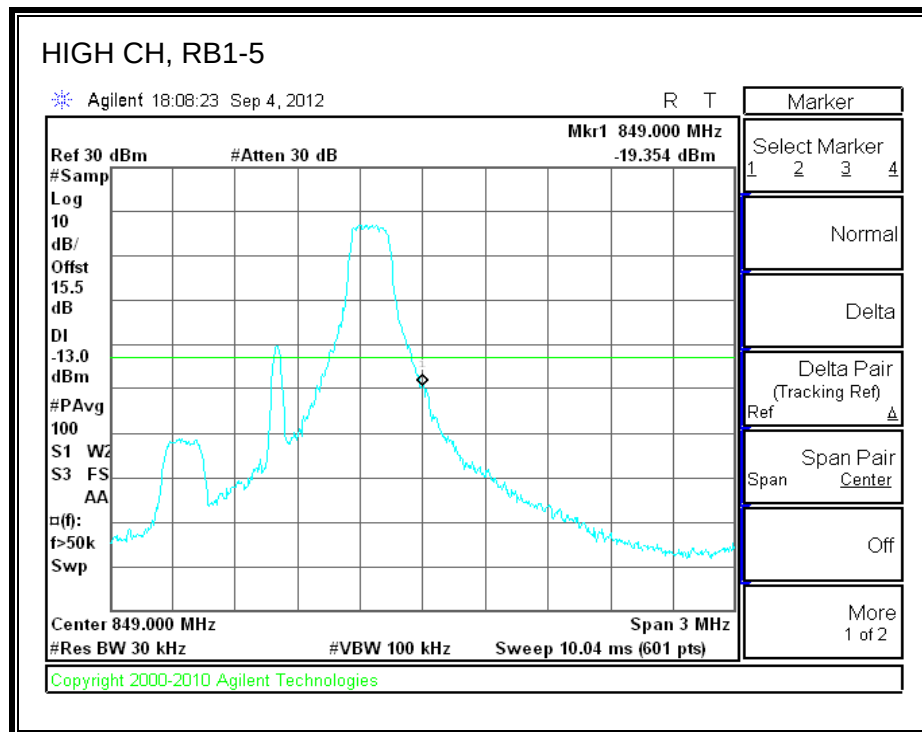
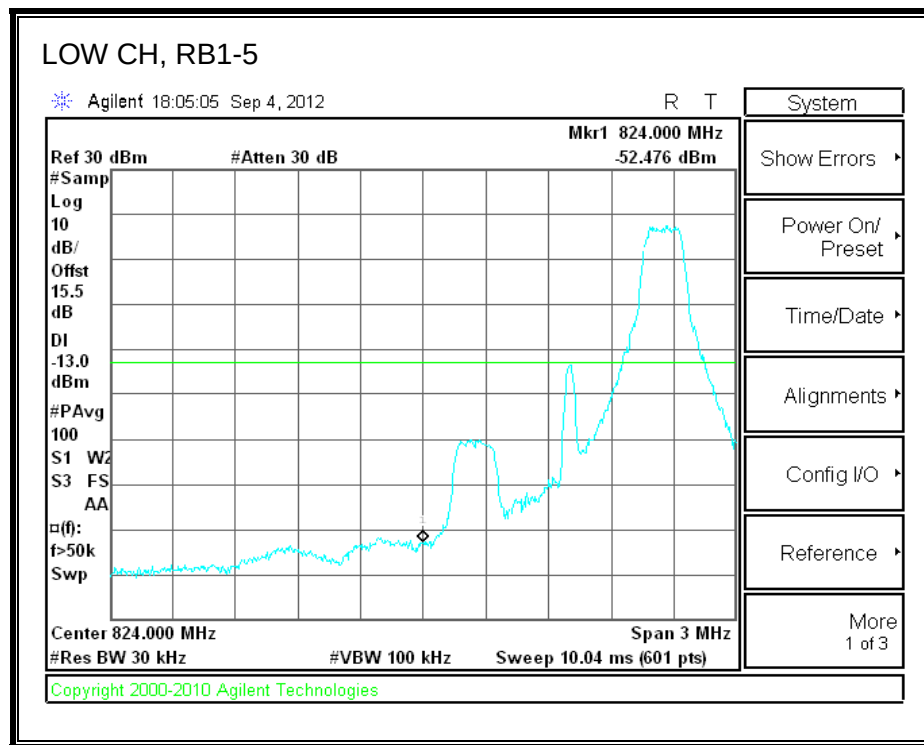


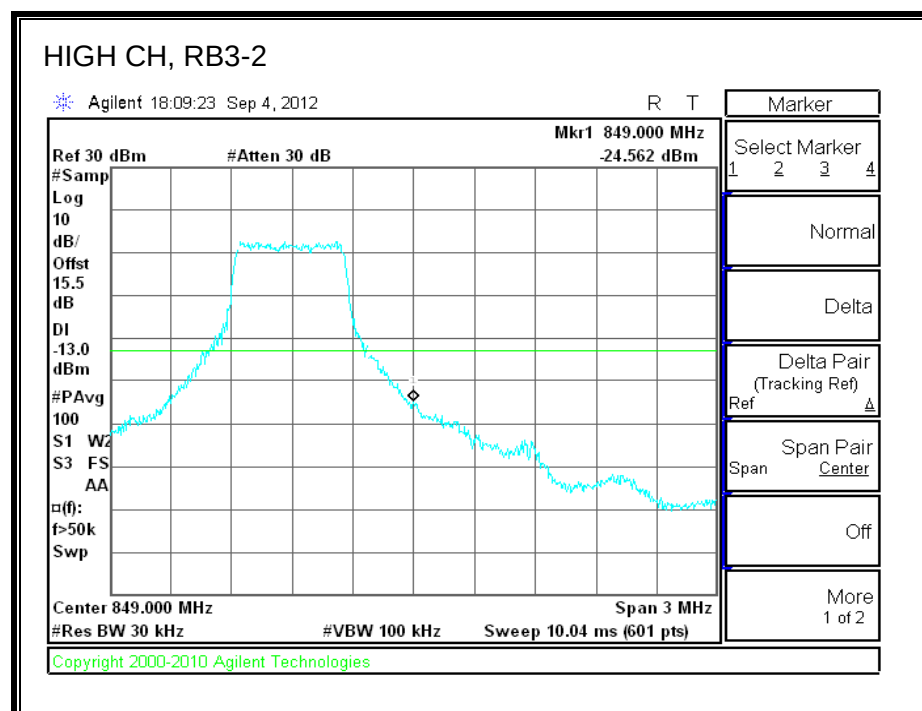
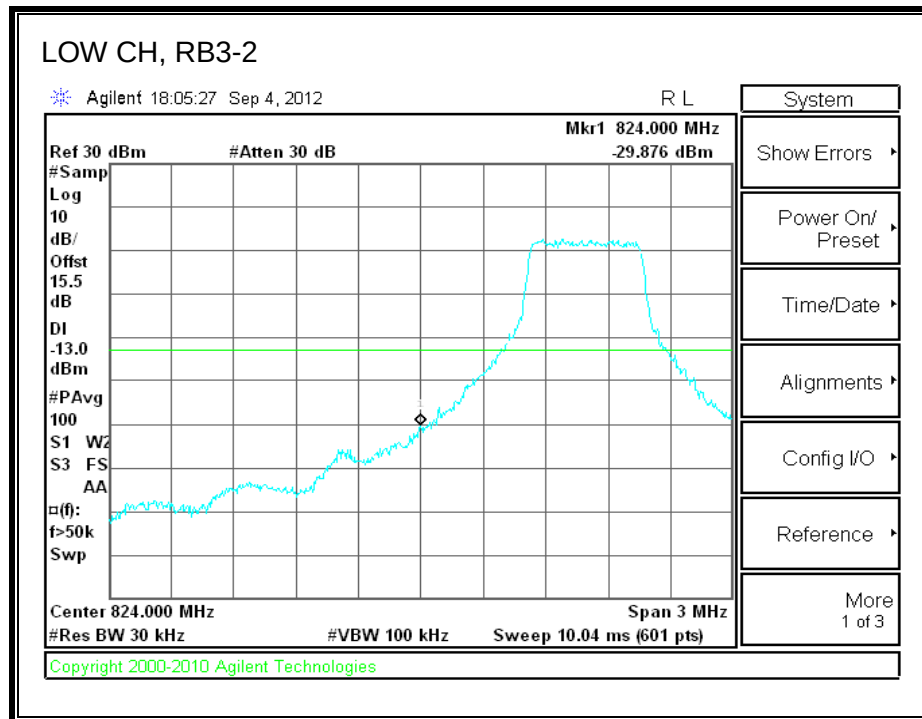


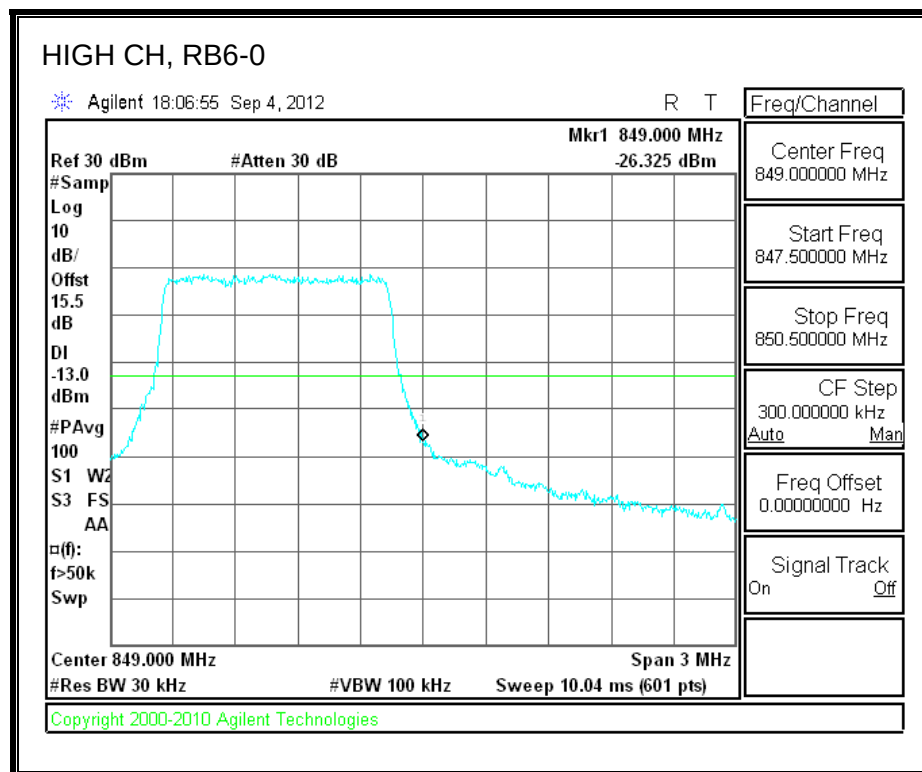
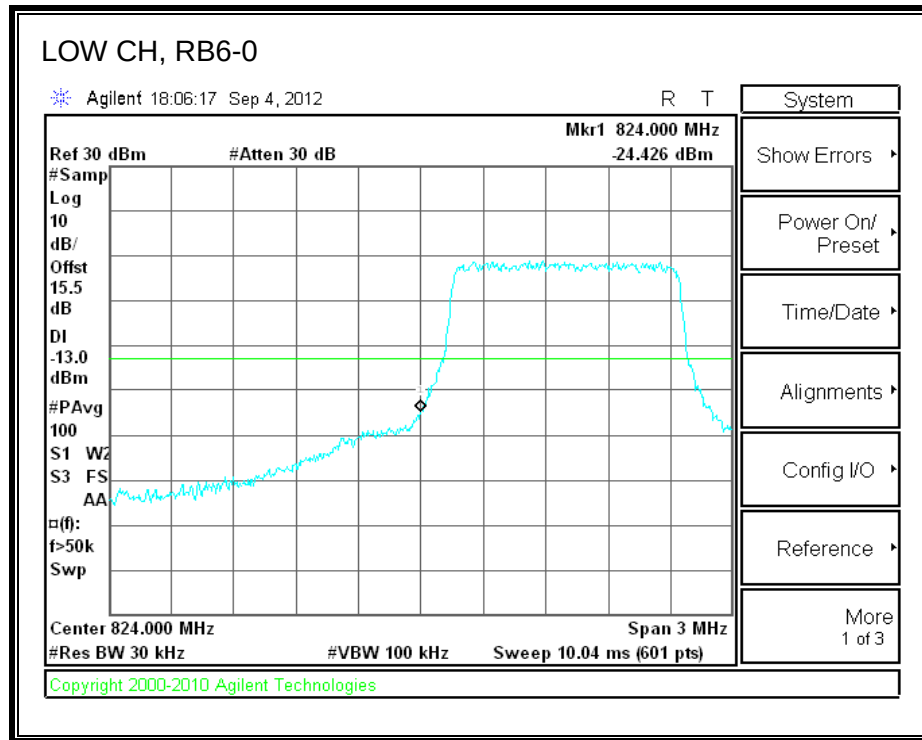
8.2.5. LTE BAND 5

LTE QPSK Band 5 (1.4 MHz BANDWIDTH)

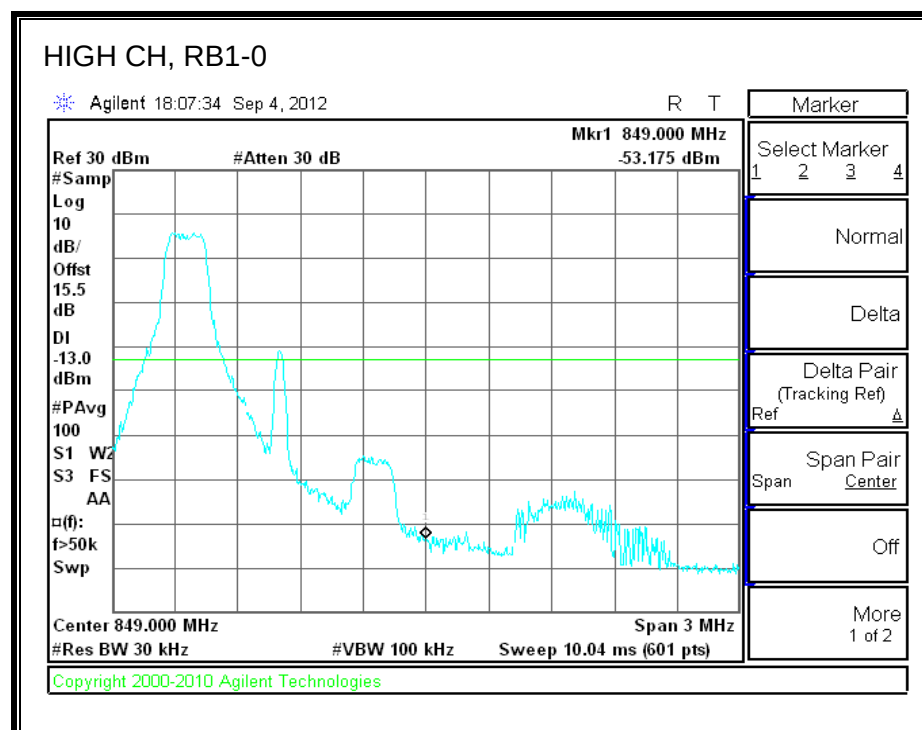
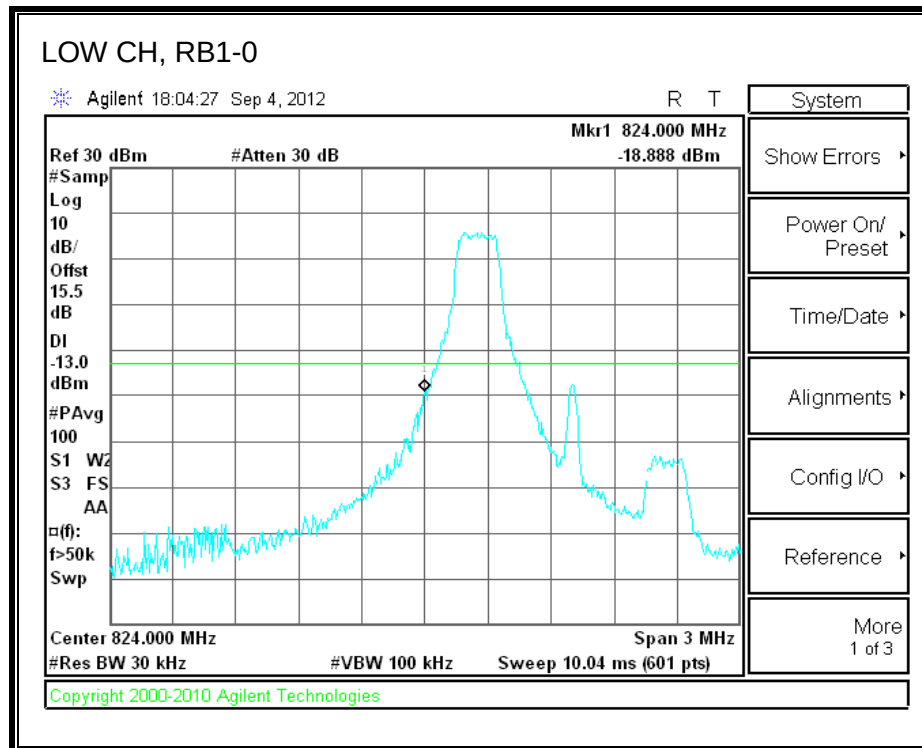


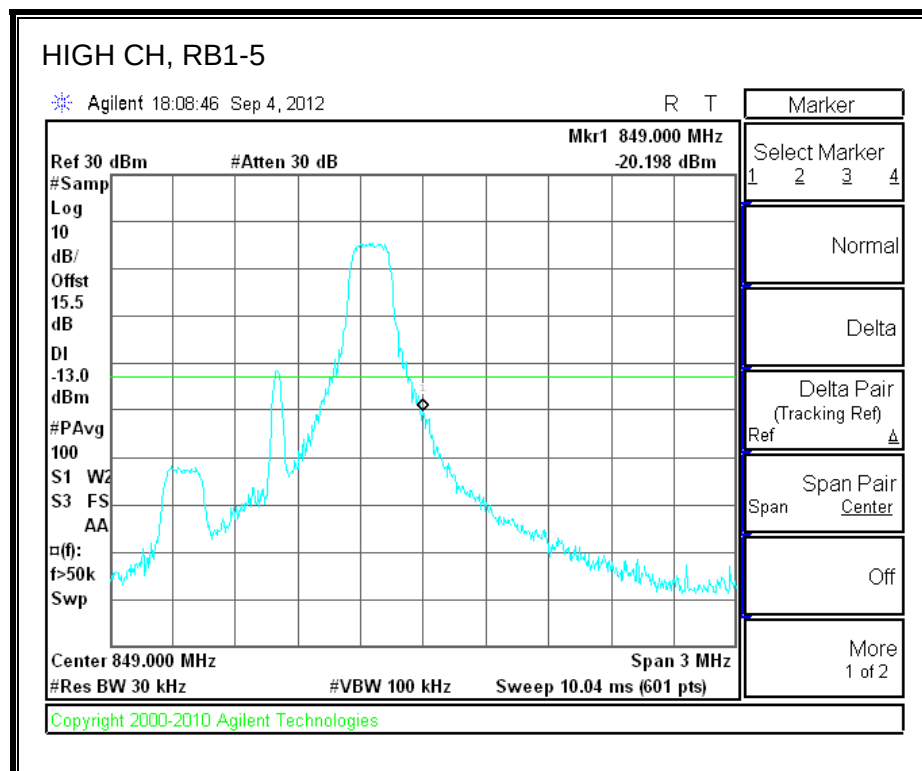
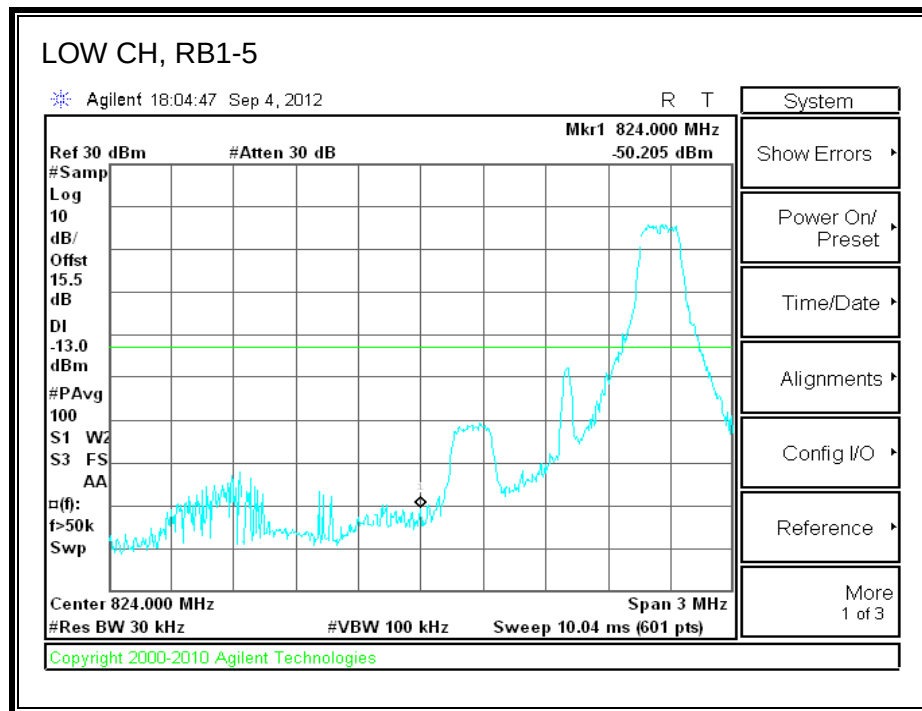


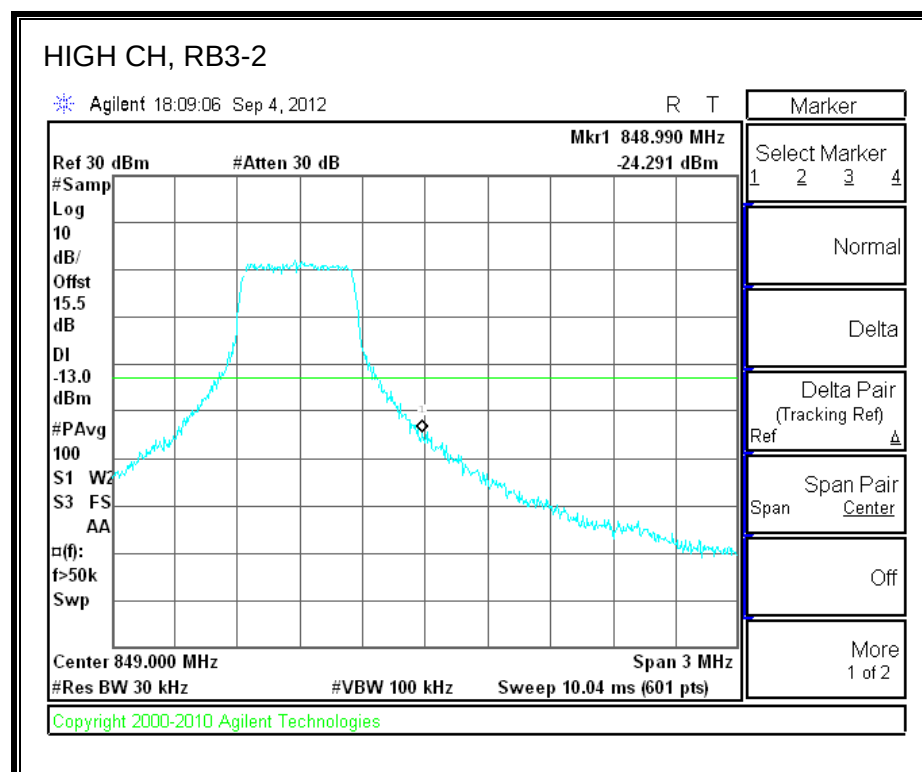
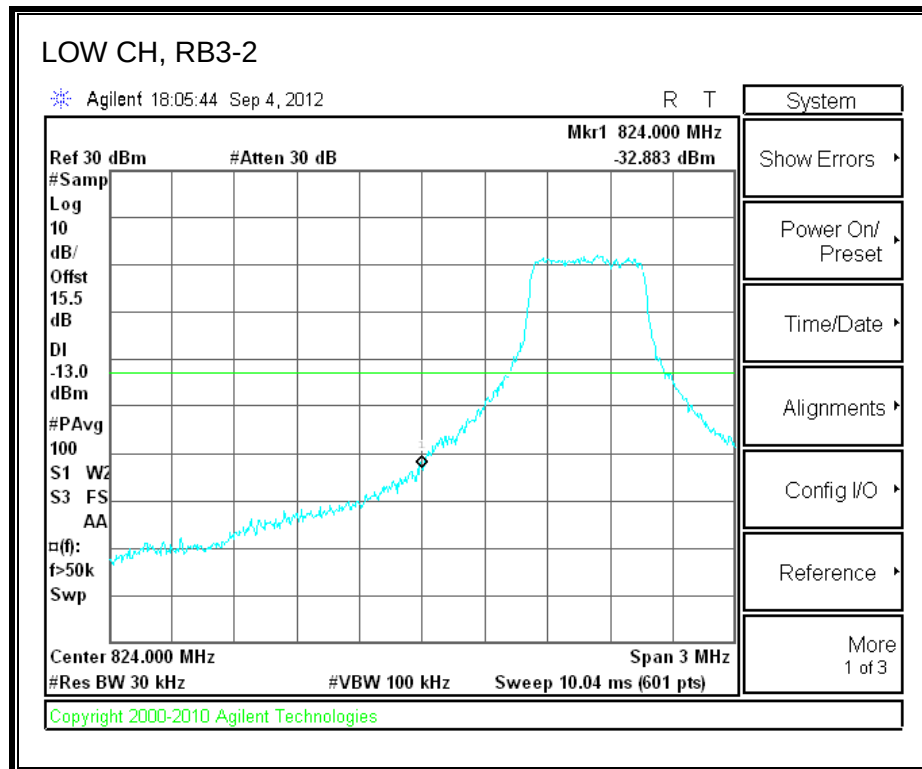


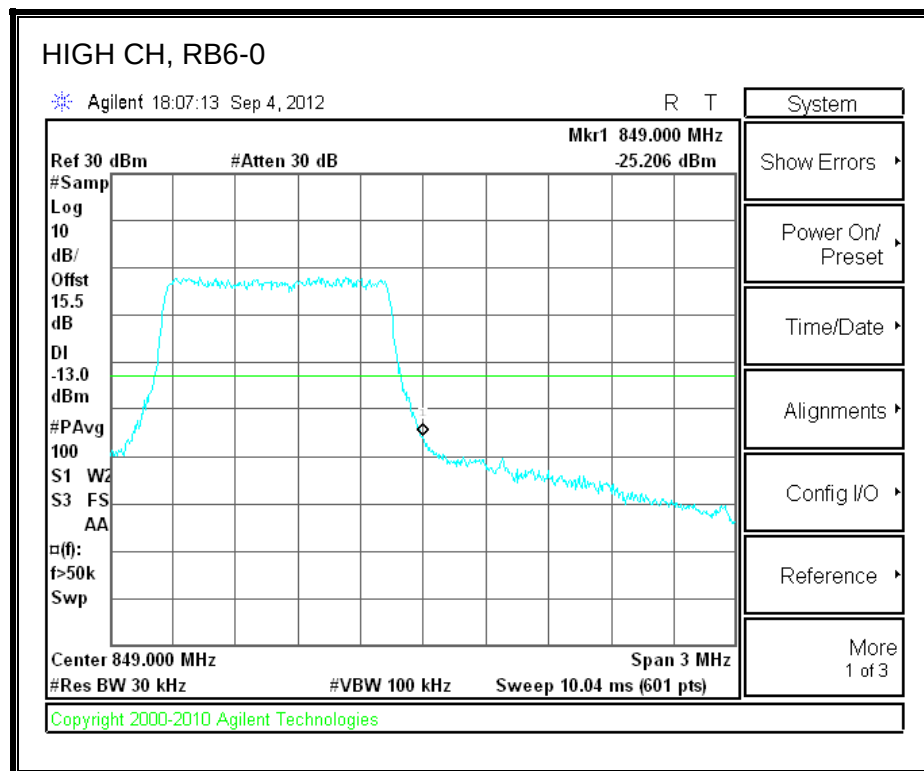
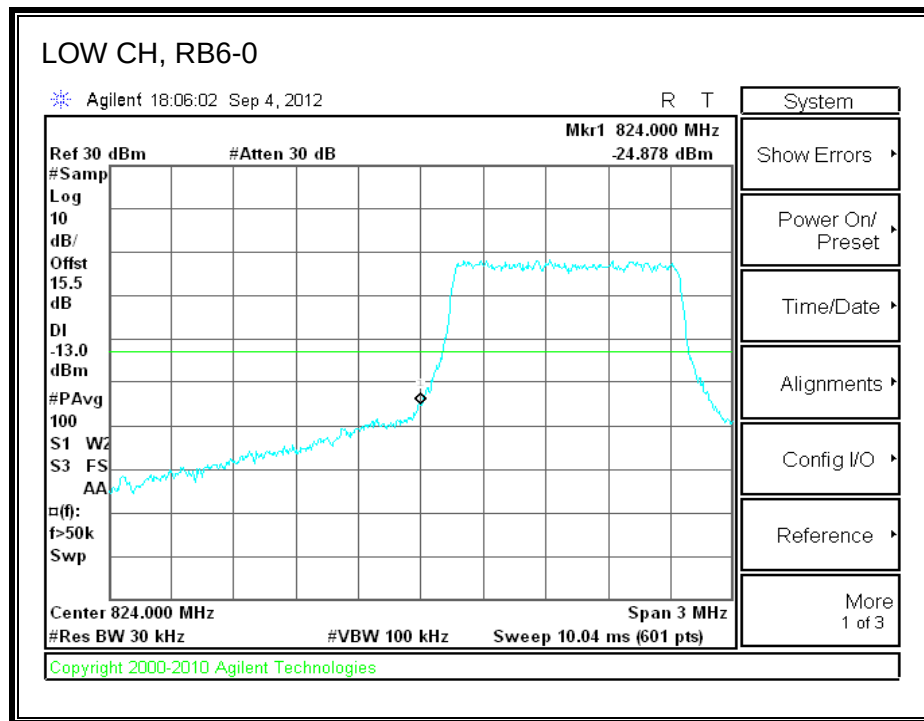


LTE 16QAM Band 4 (1.4 MHz BANDWIDTH)

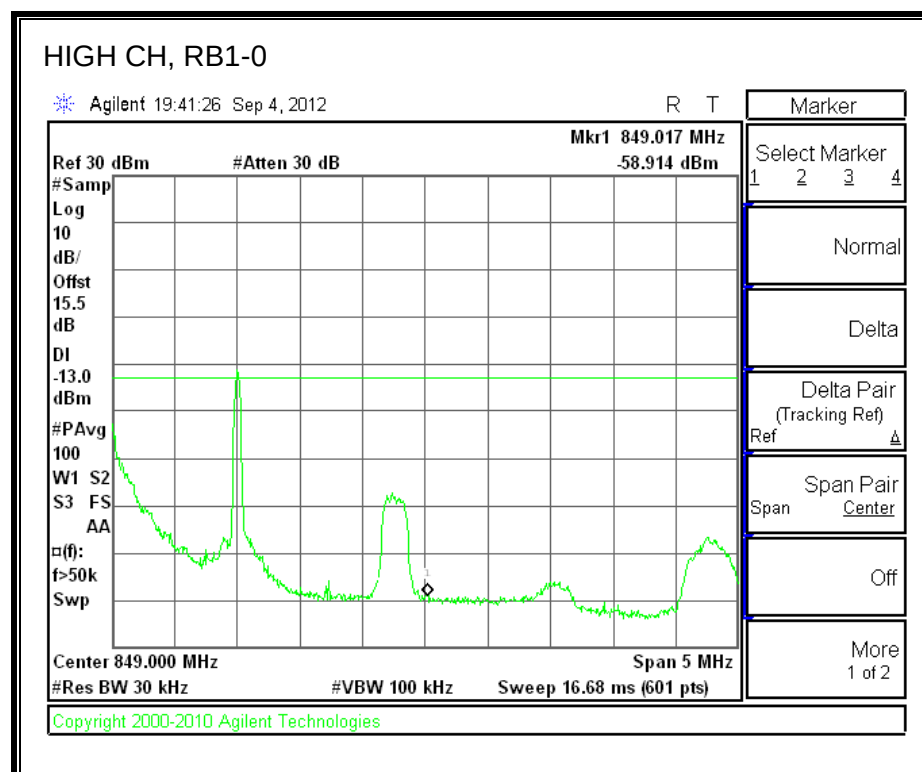
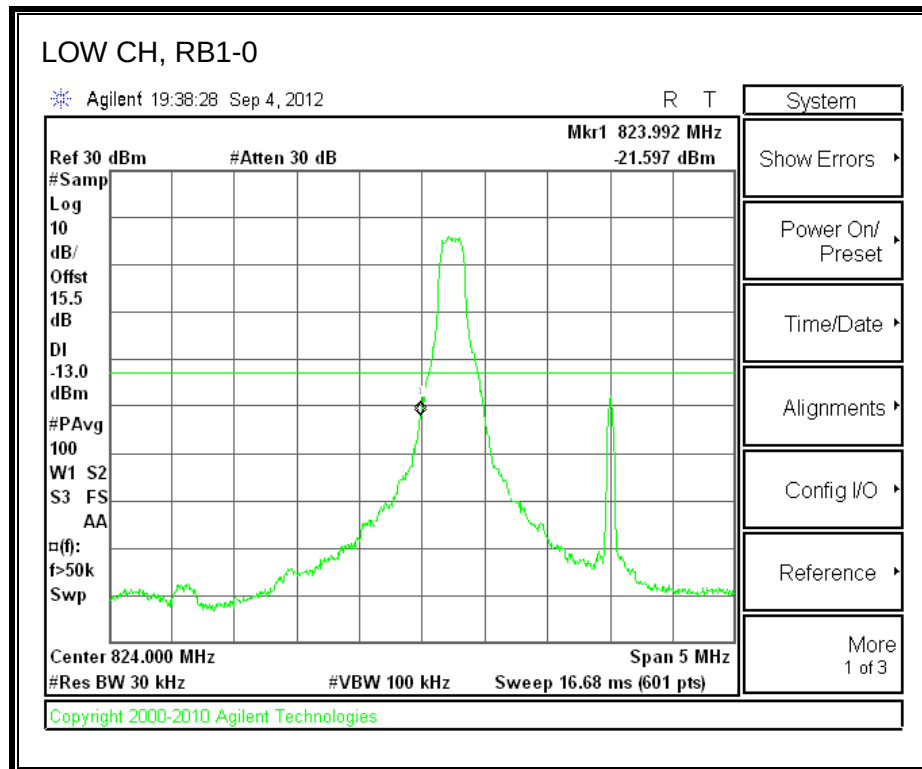


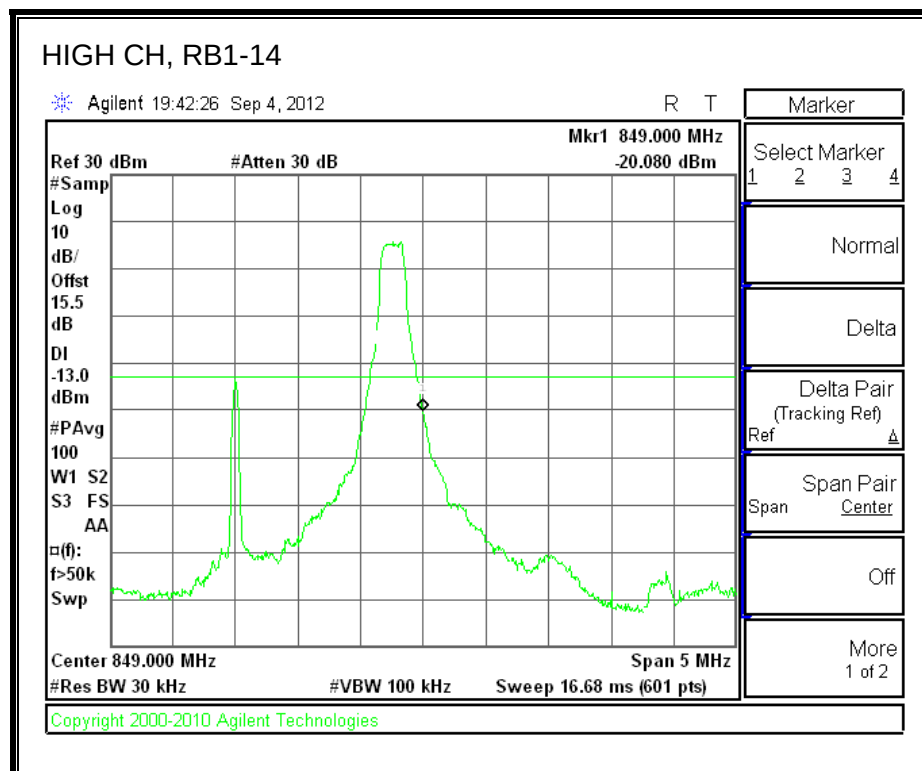
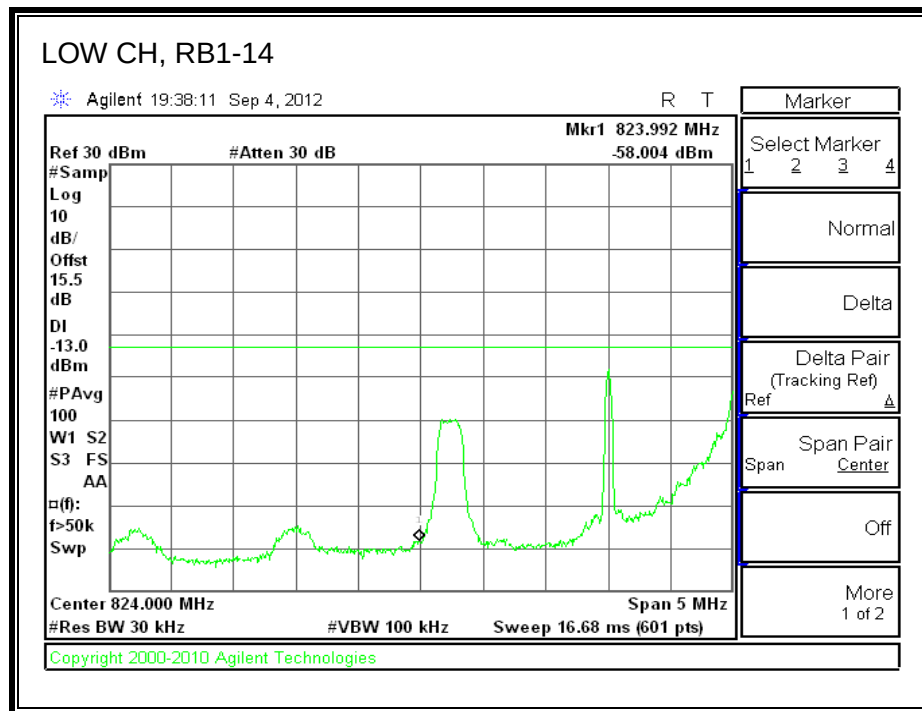


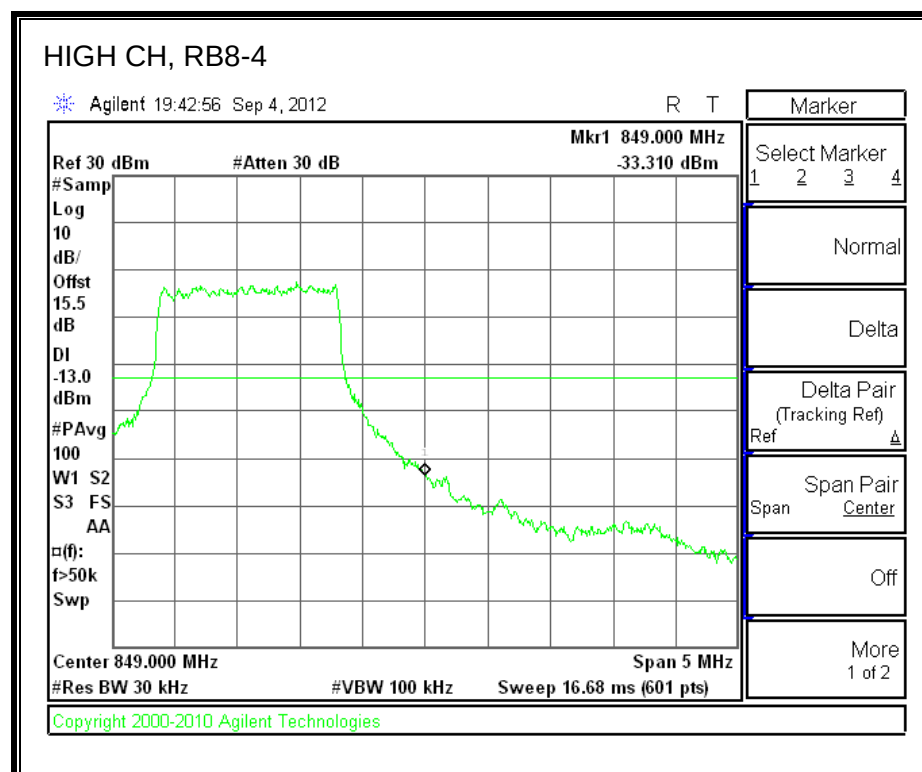
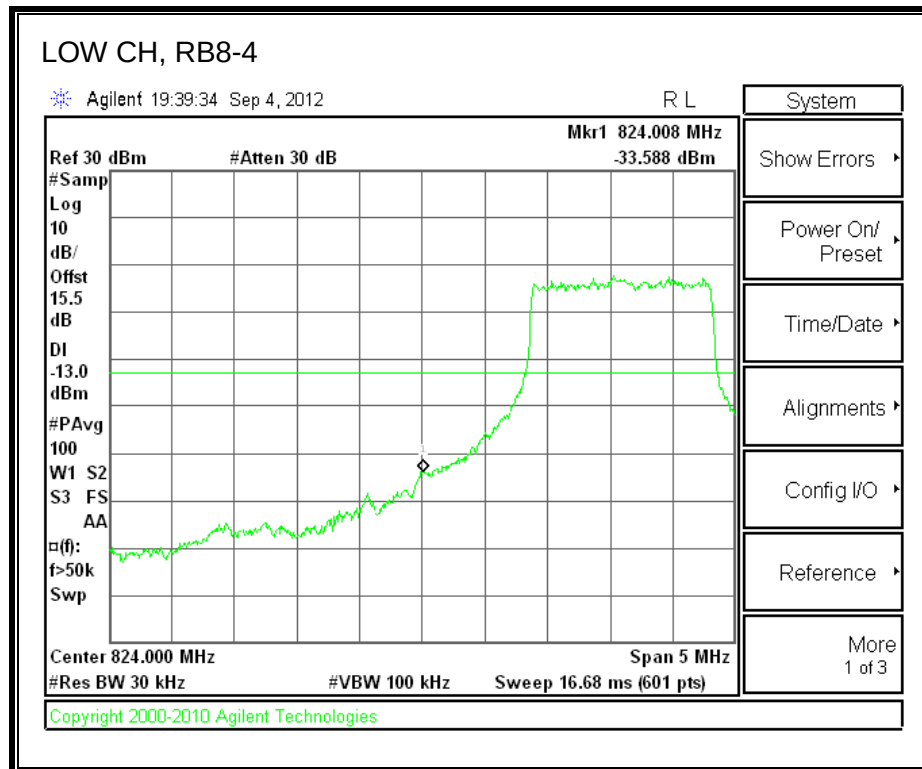


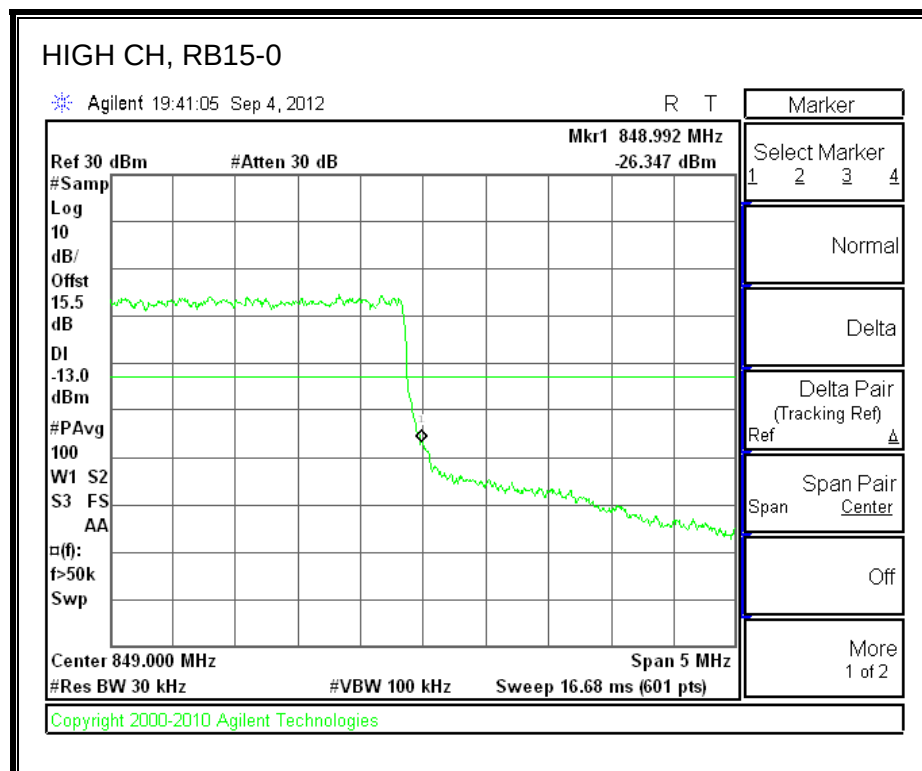
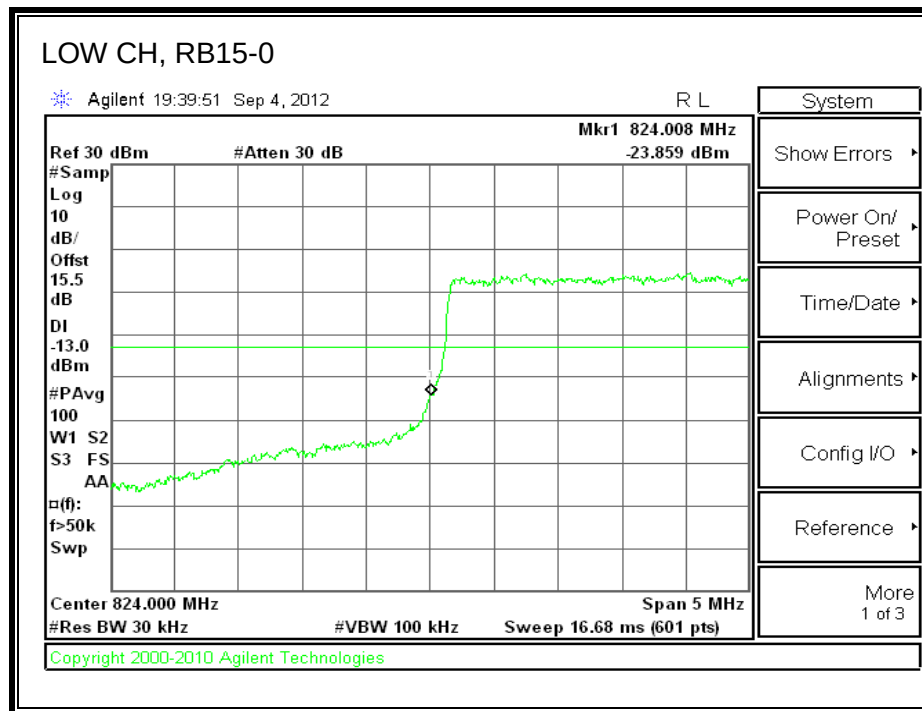


LTE QPSK Band 5 (3 MHz BANDWIDTH)

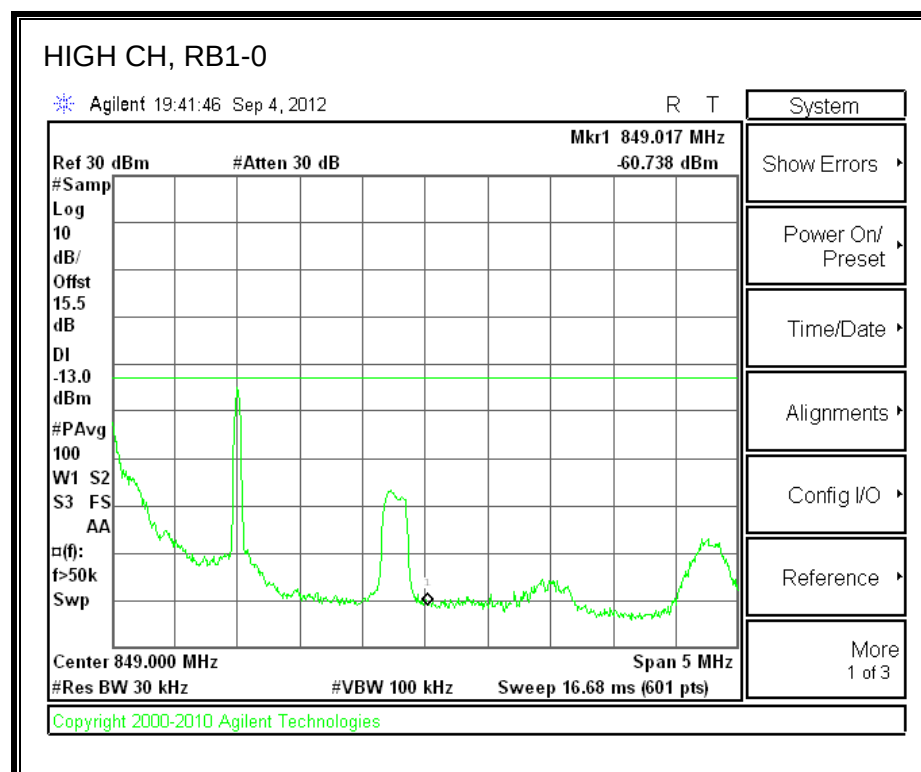
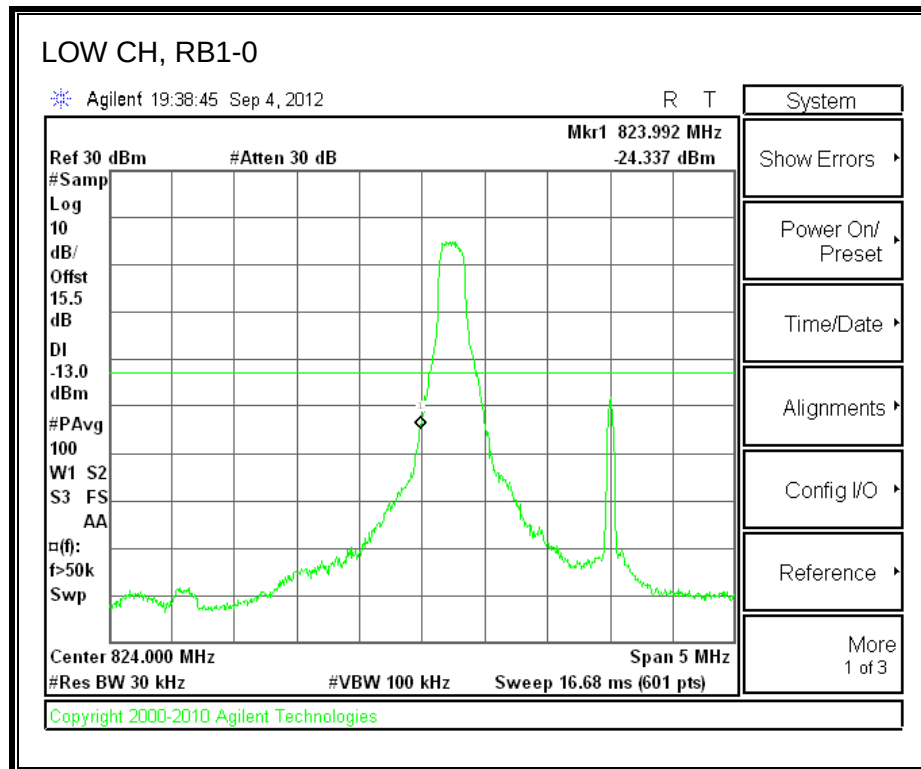


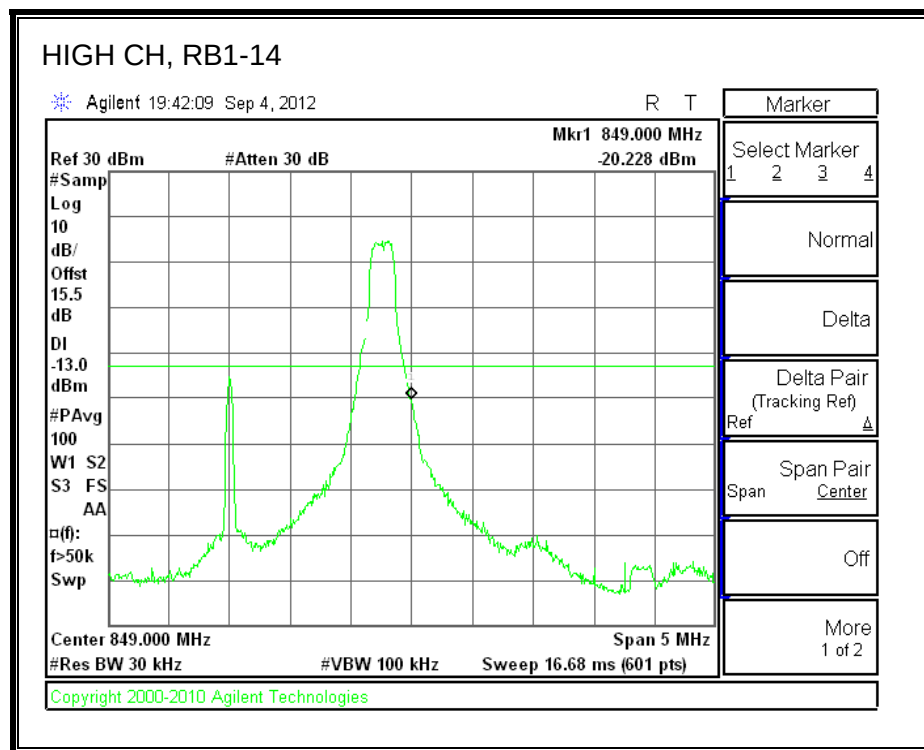
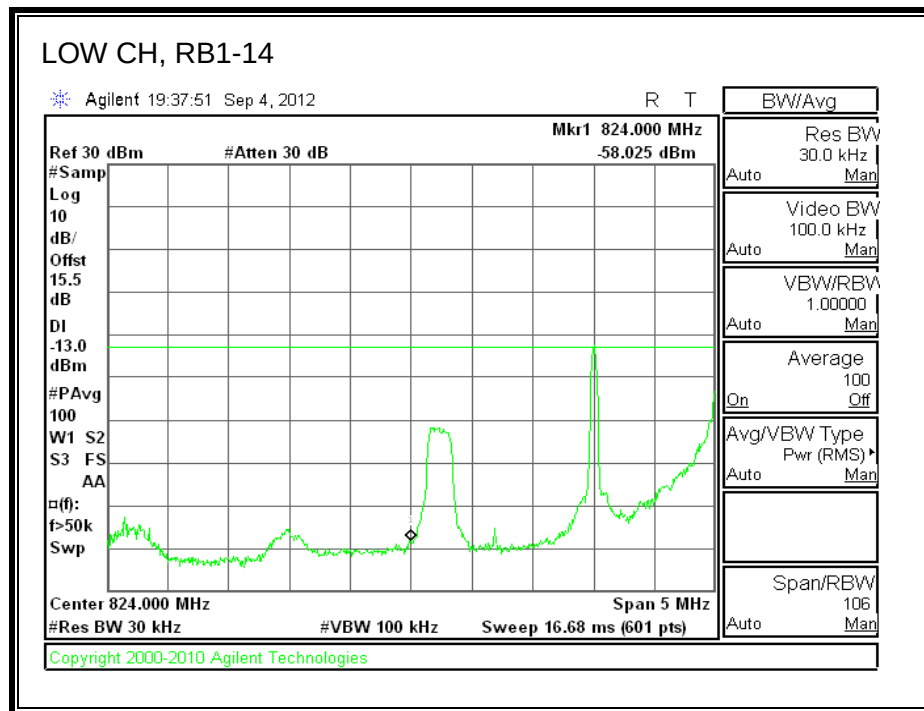


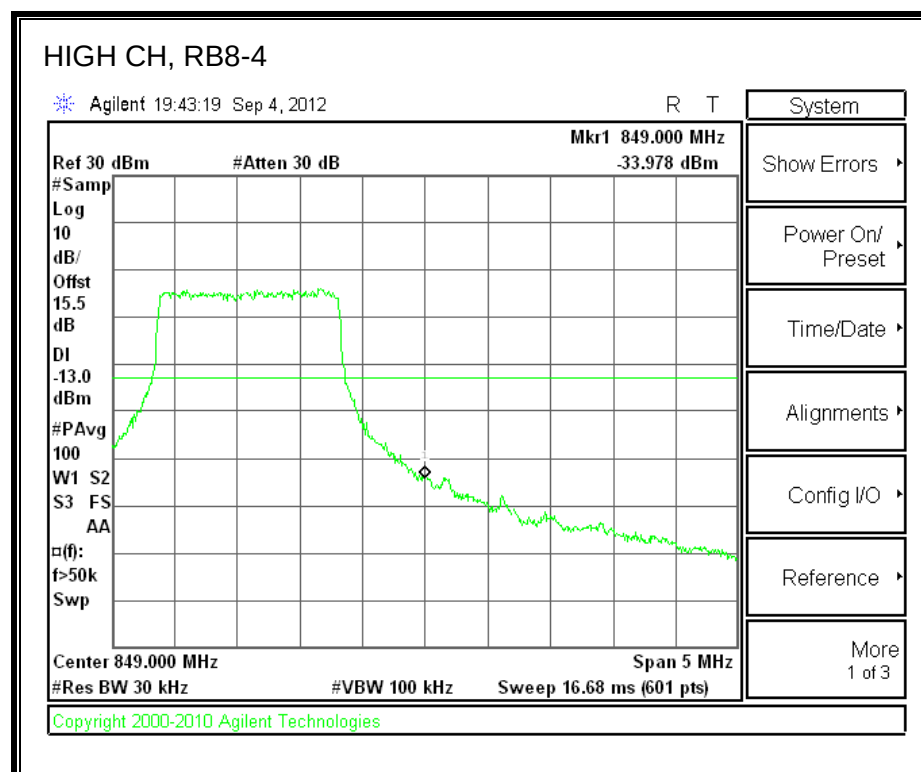
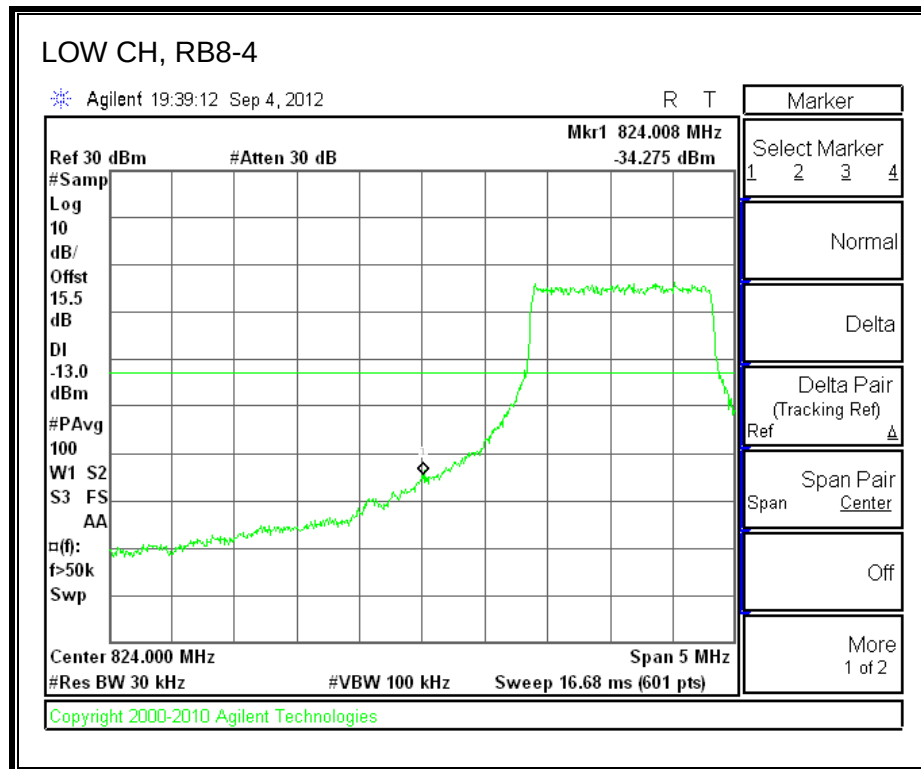


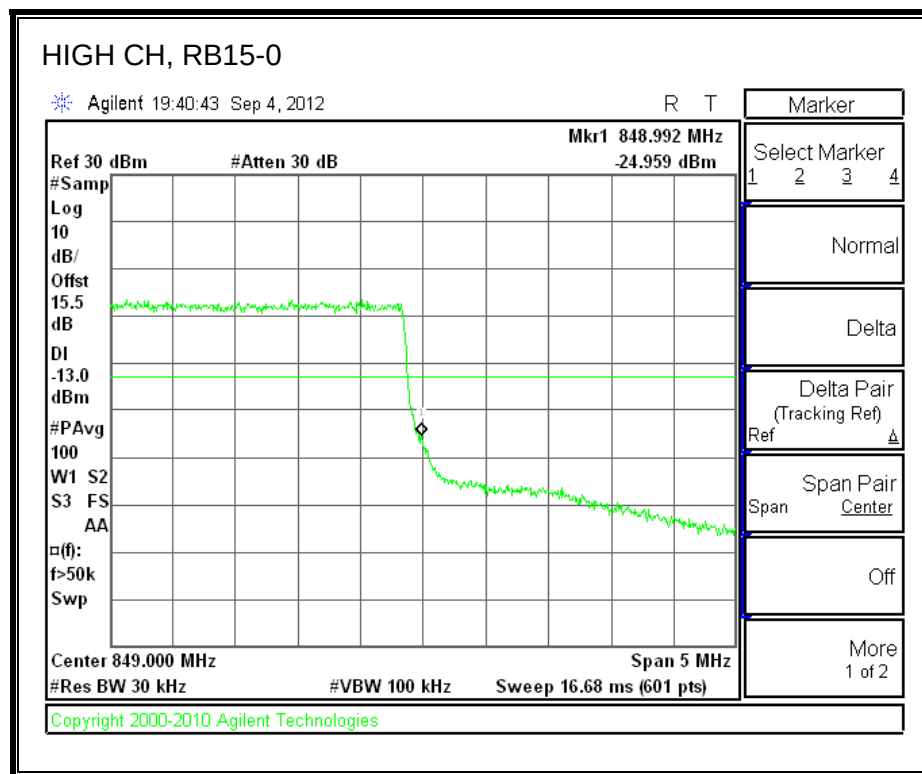
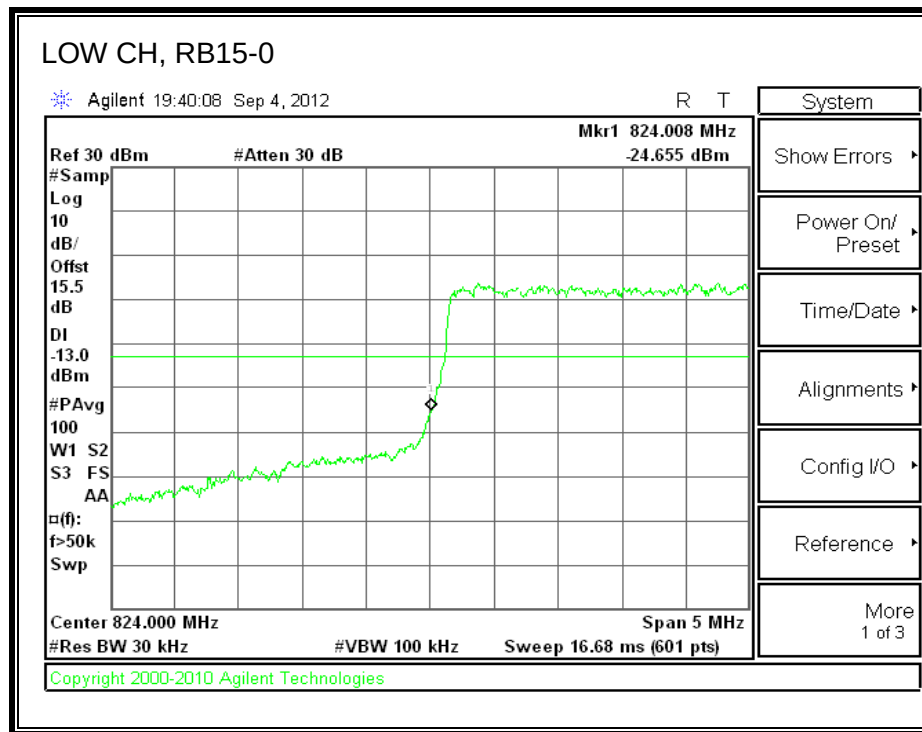


LTE 16QAM Band 5 (3 MHz BANDWIDTH)

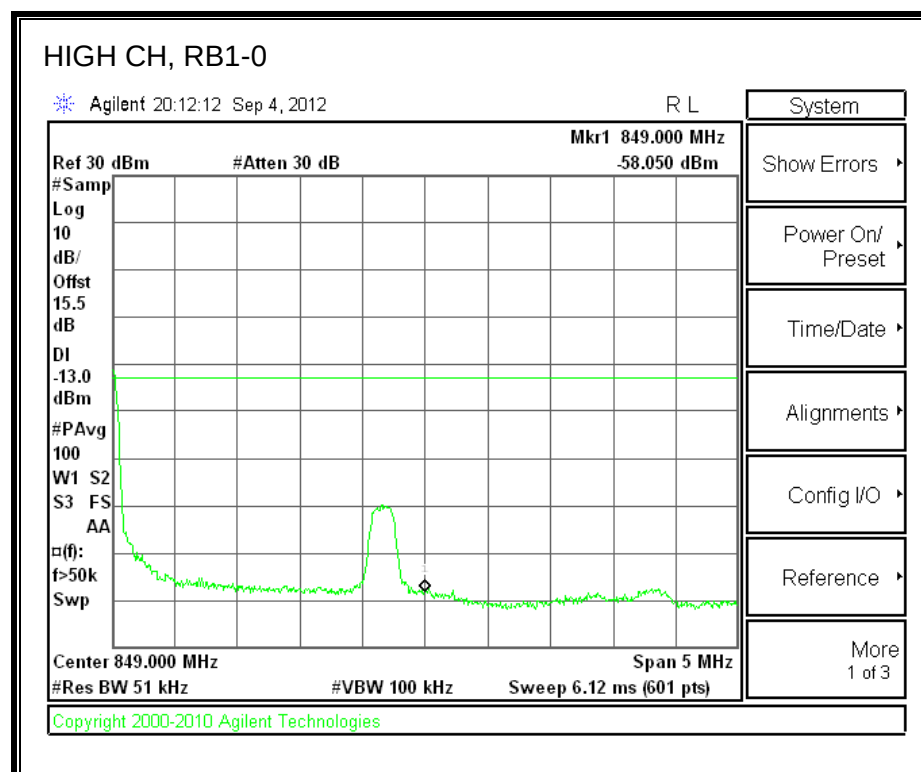
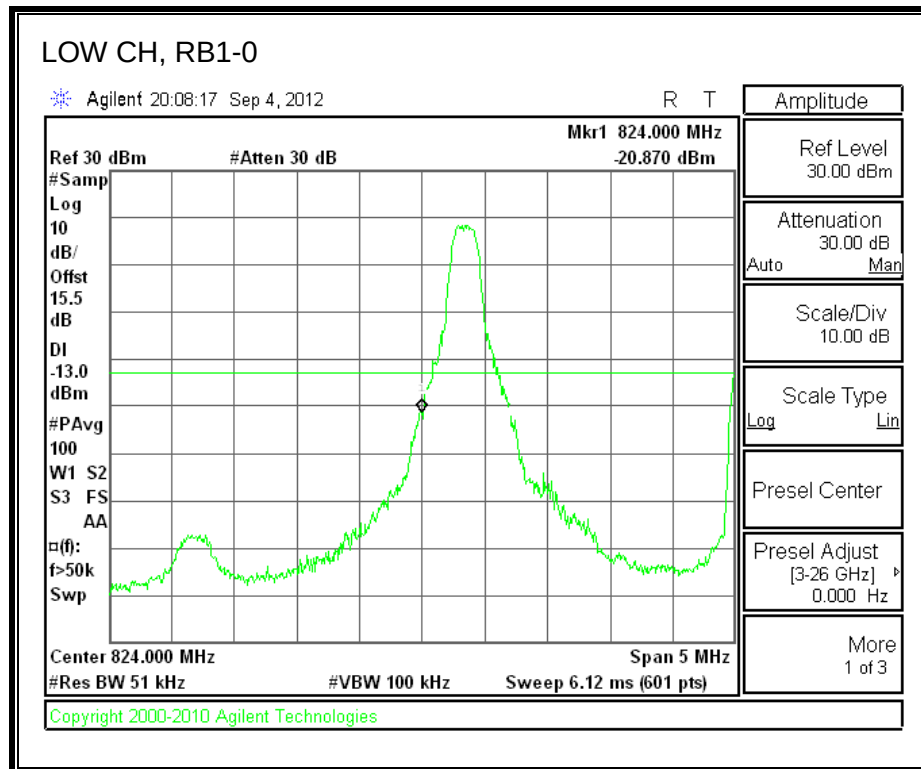


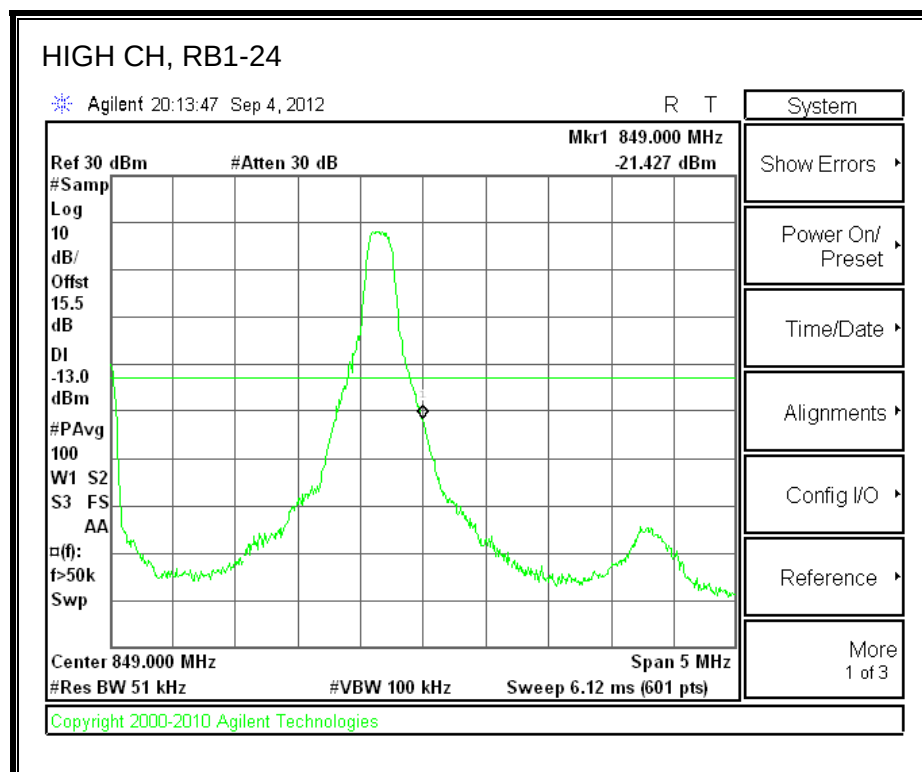
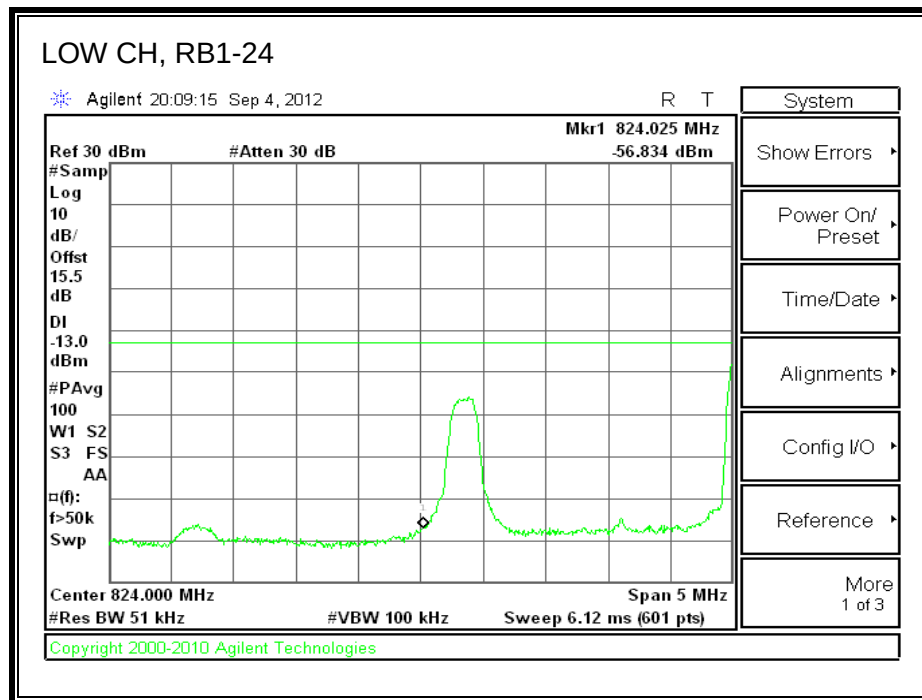


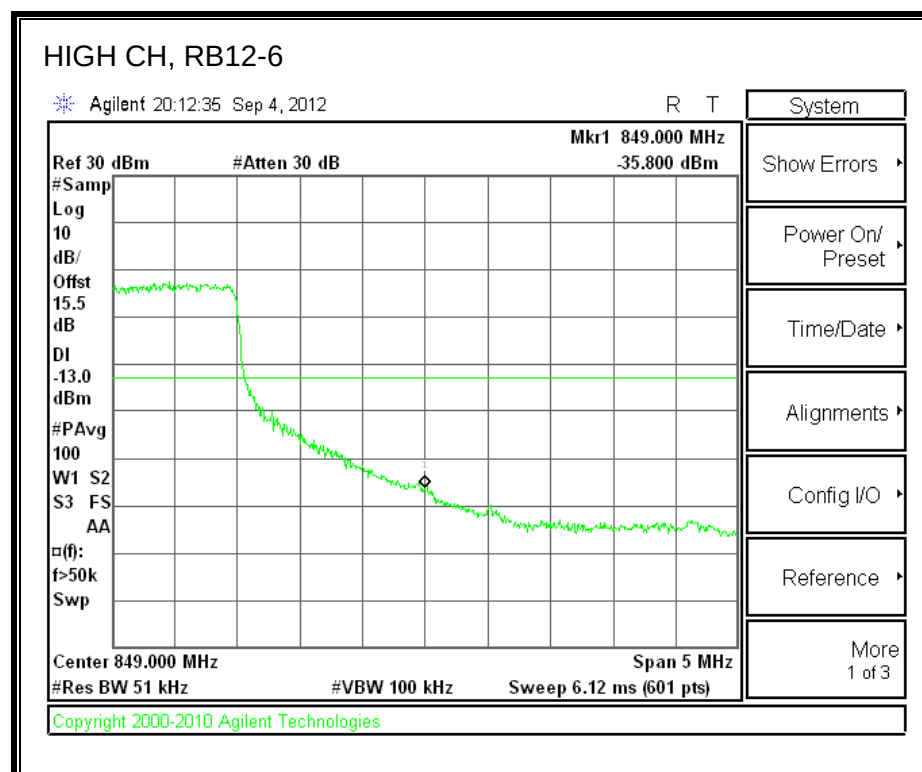
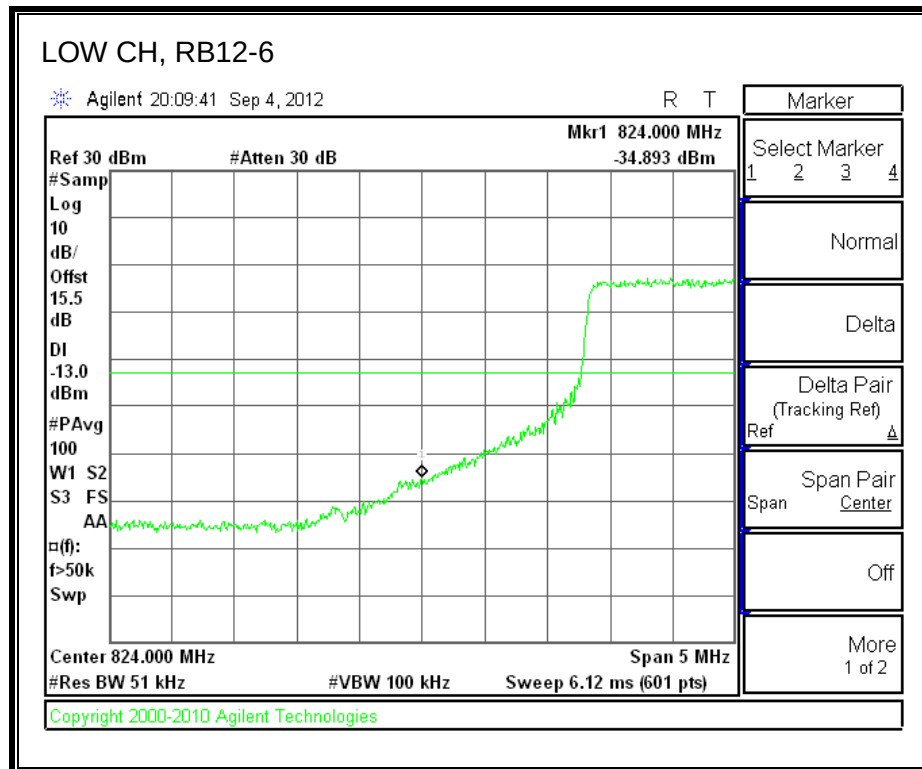


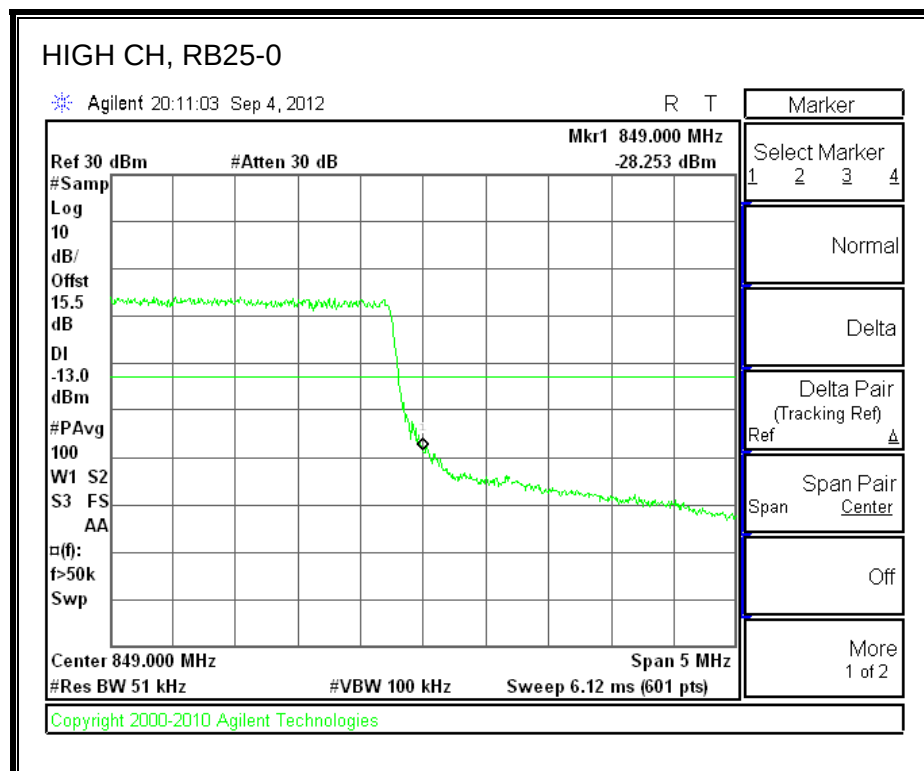
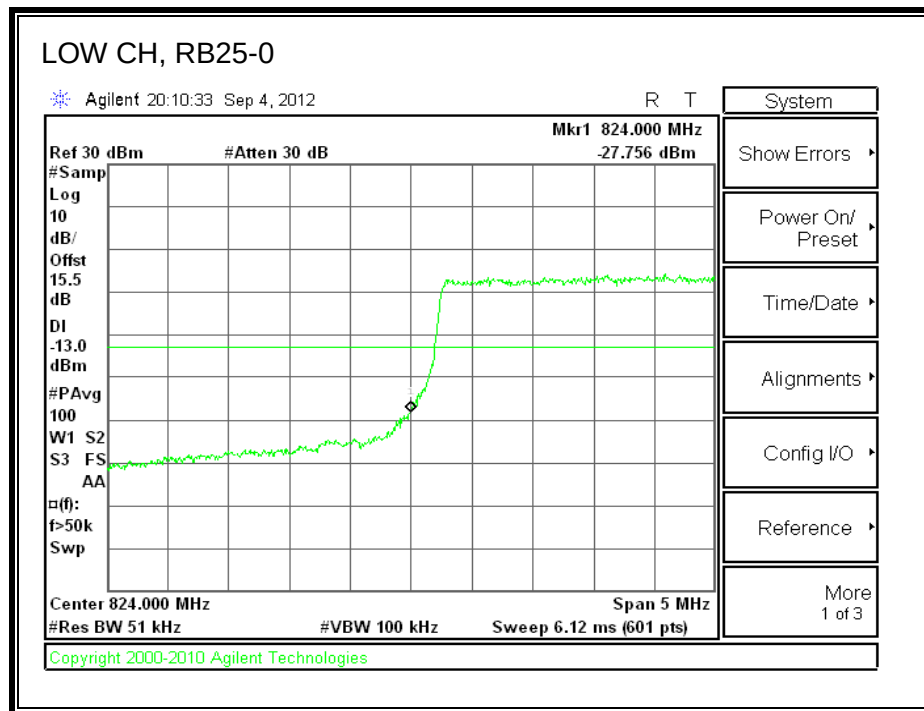


LTE QPSK Band 5 (5 MHz BANDWIDTH)

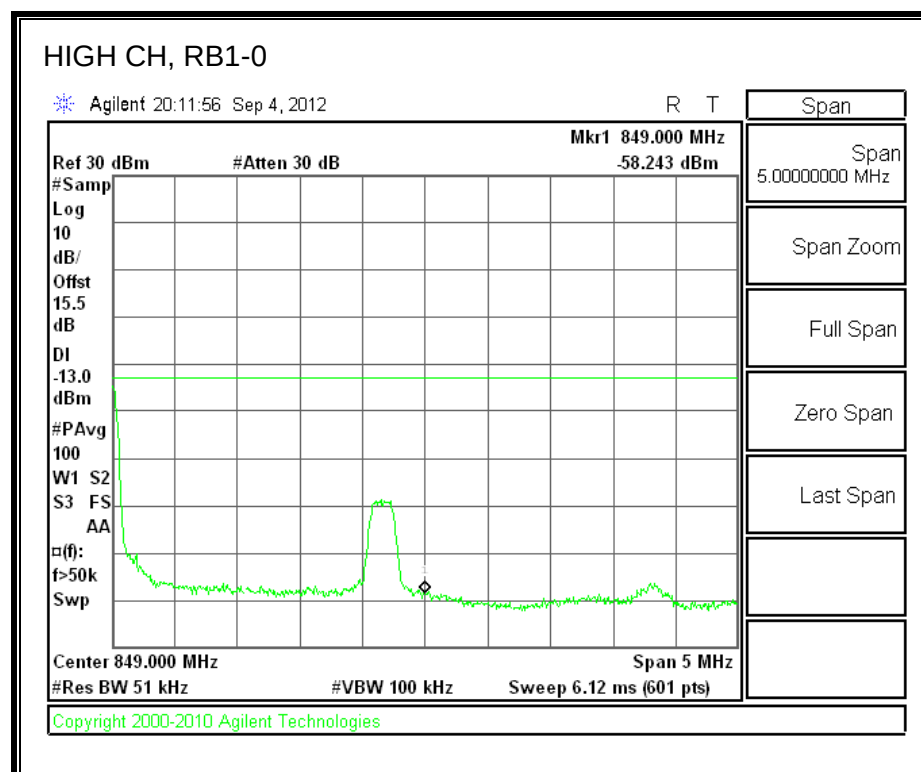
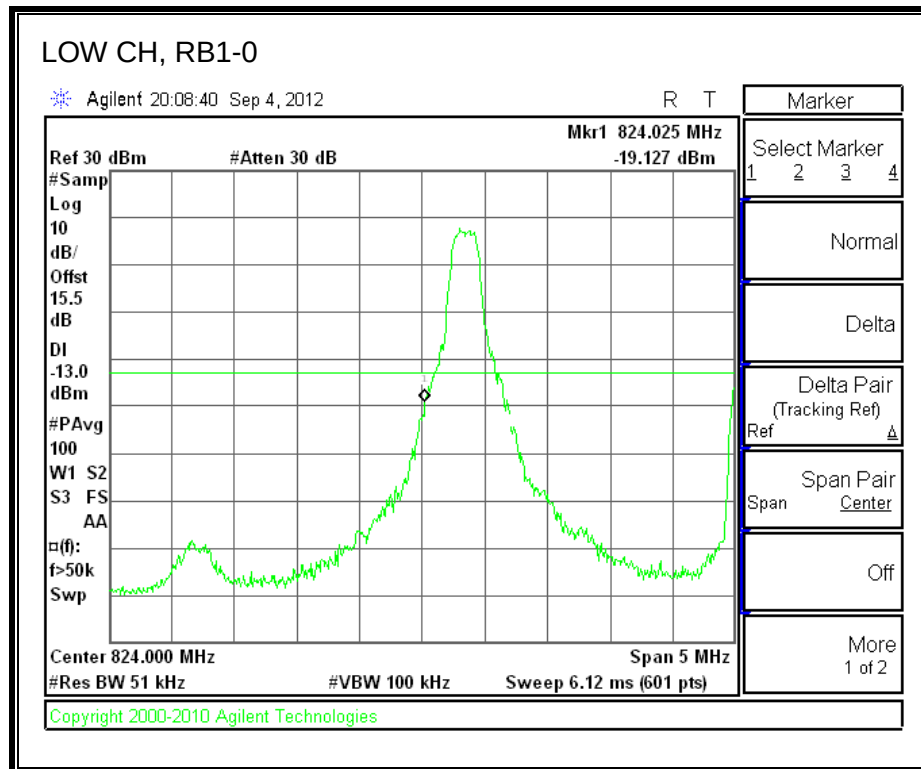


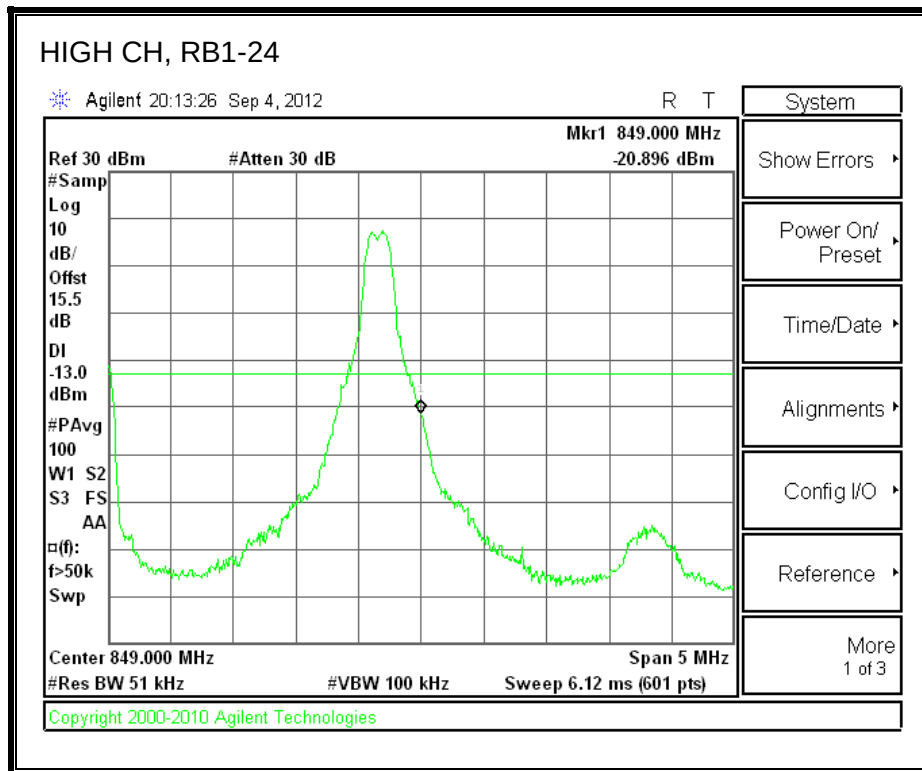
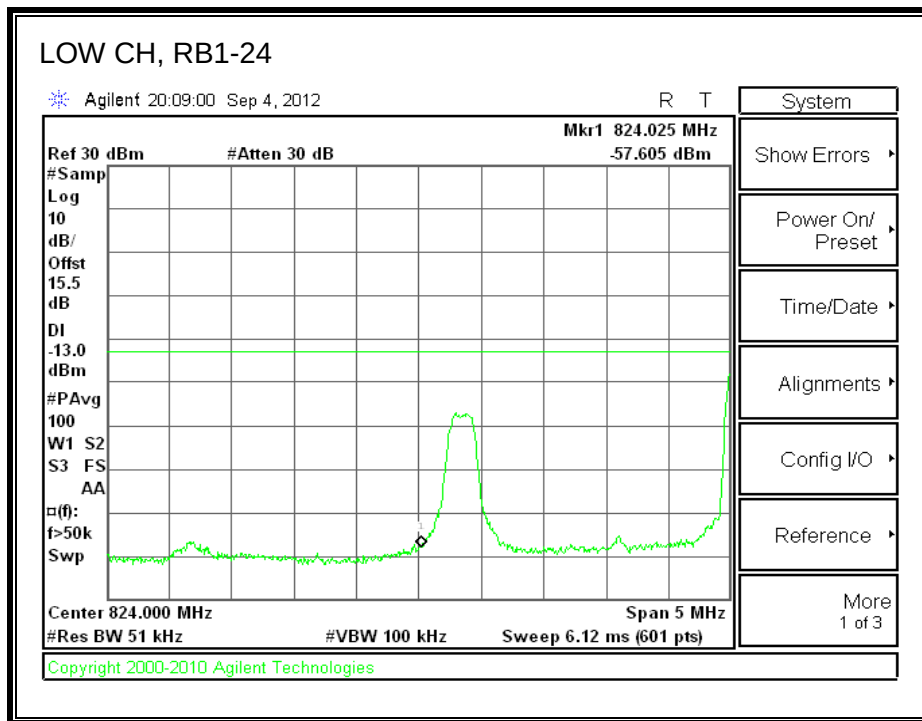


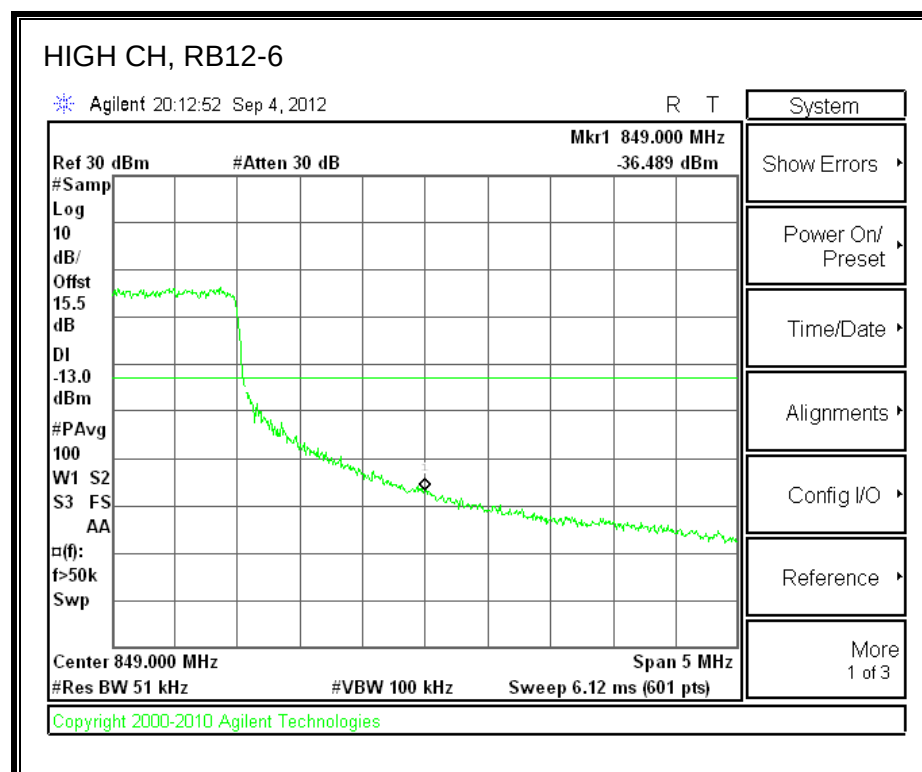
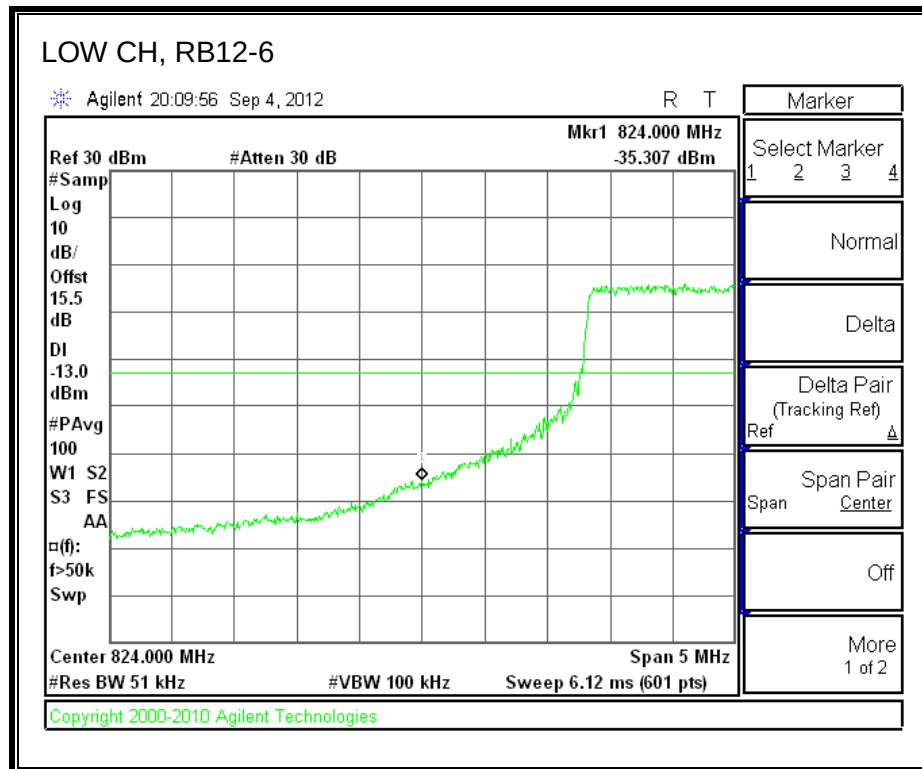


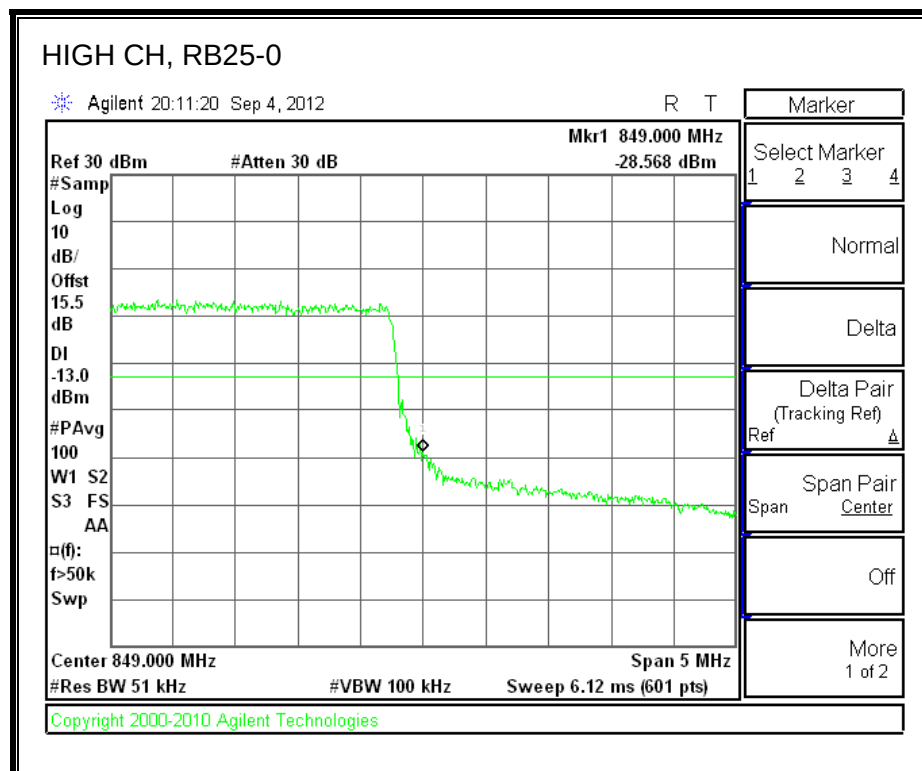
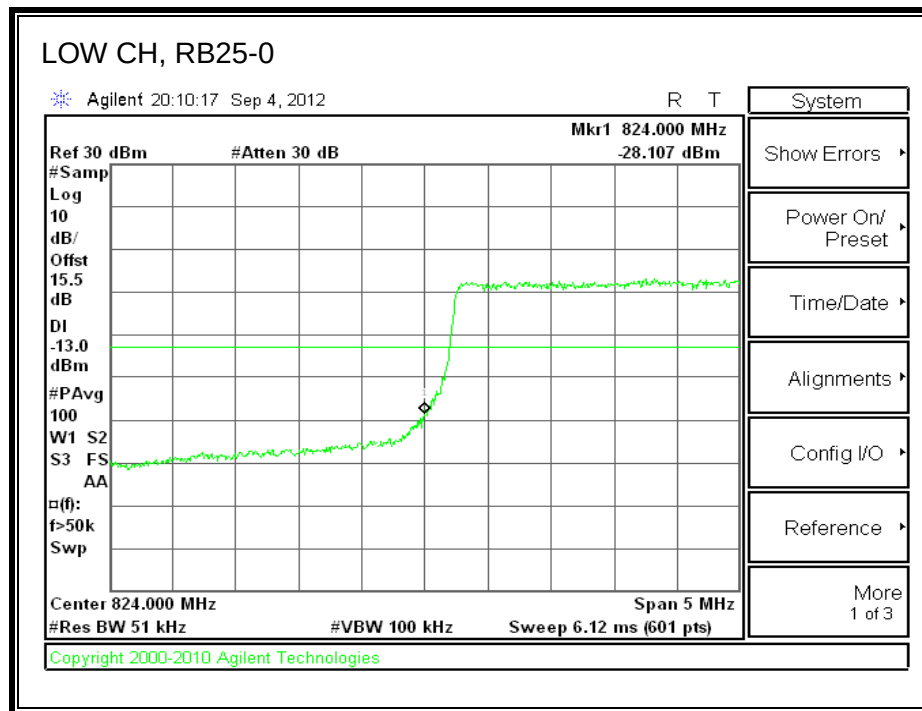


LTE 16QAM Band 5 (5 MHz BANDWIDTH)

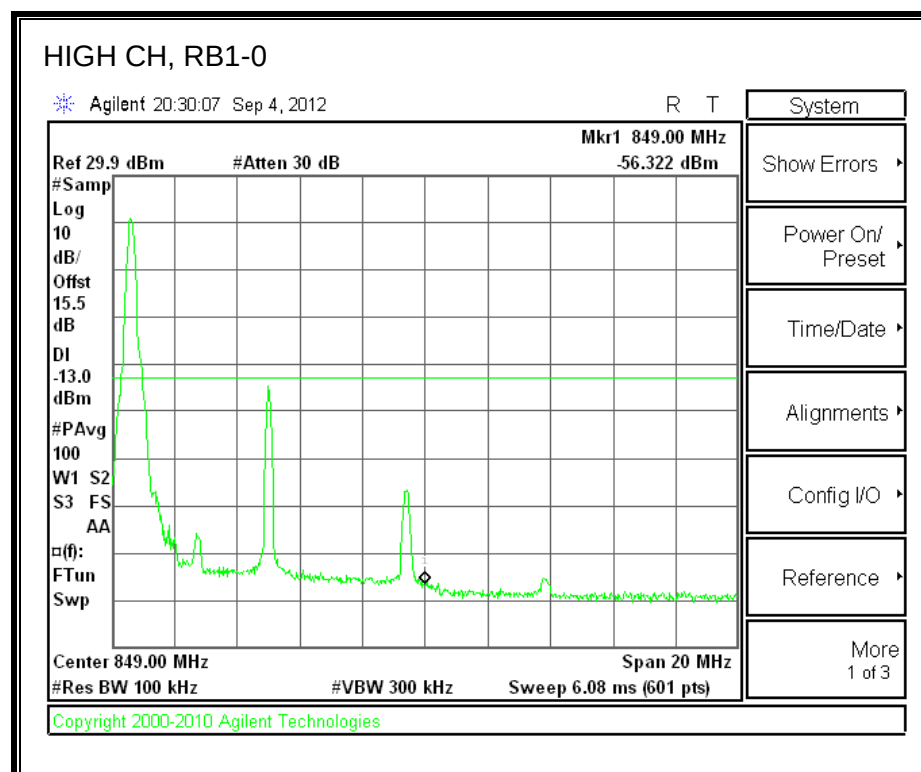
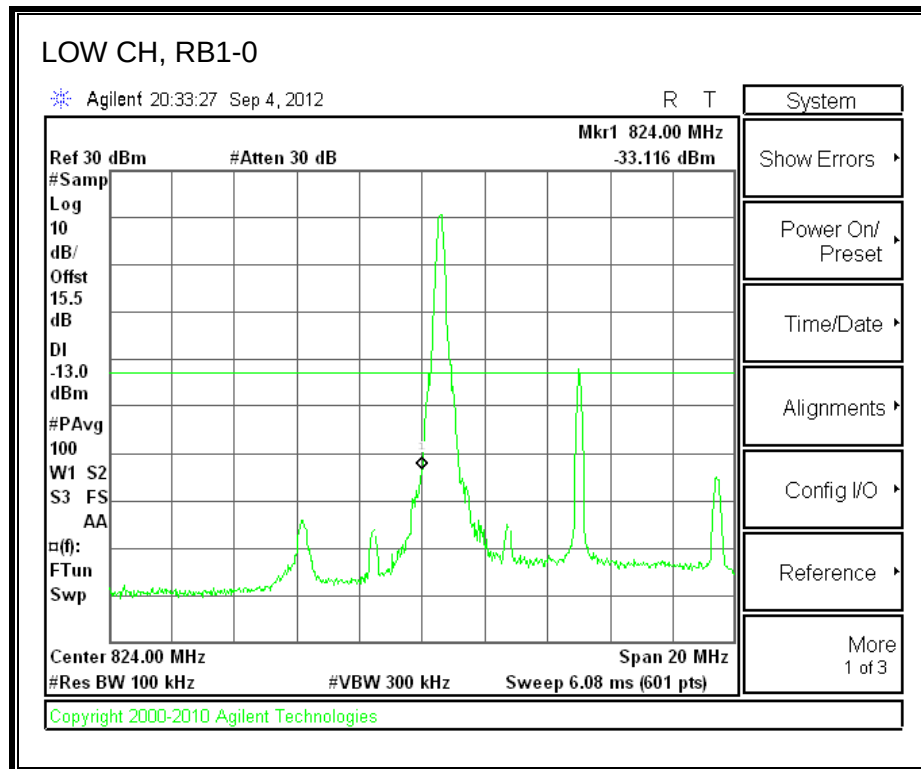


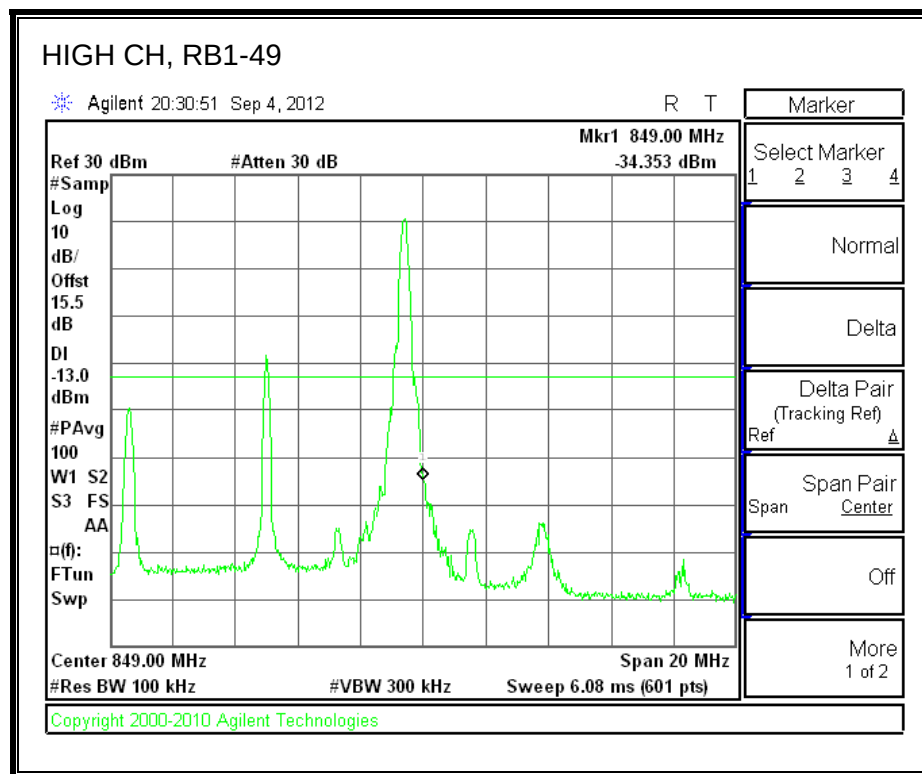
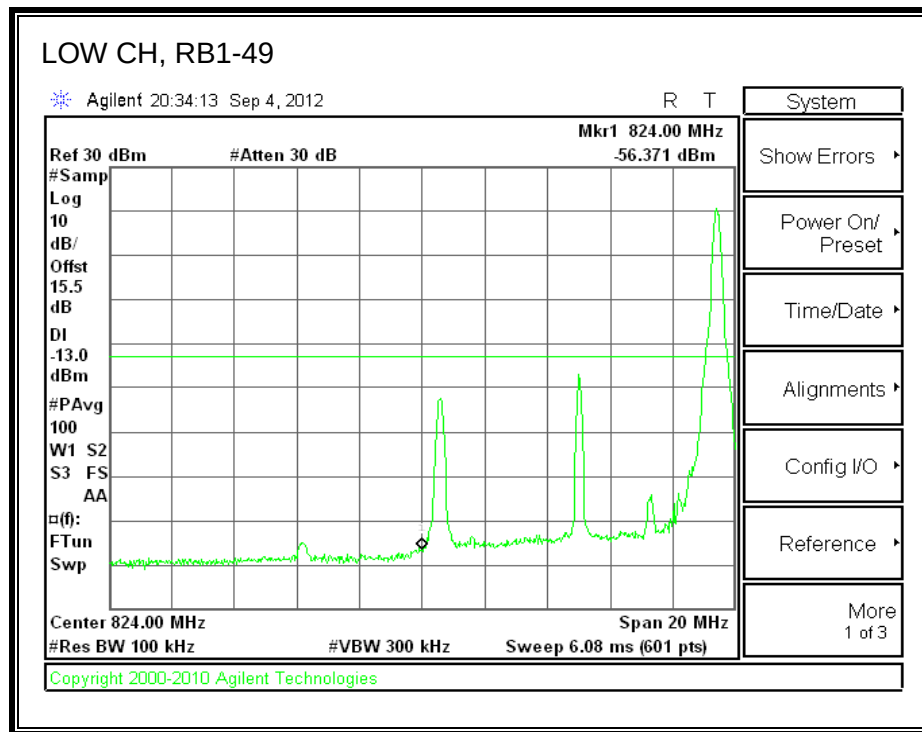


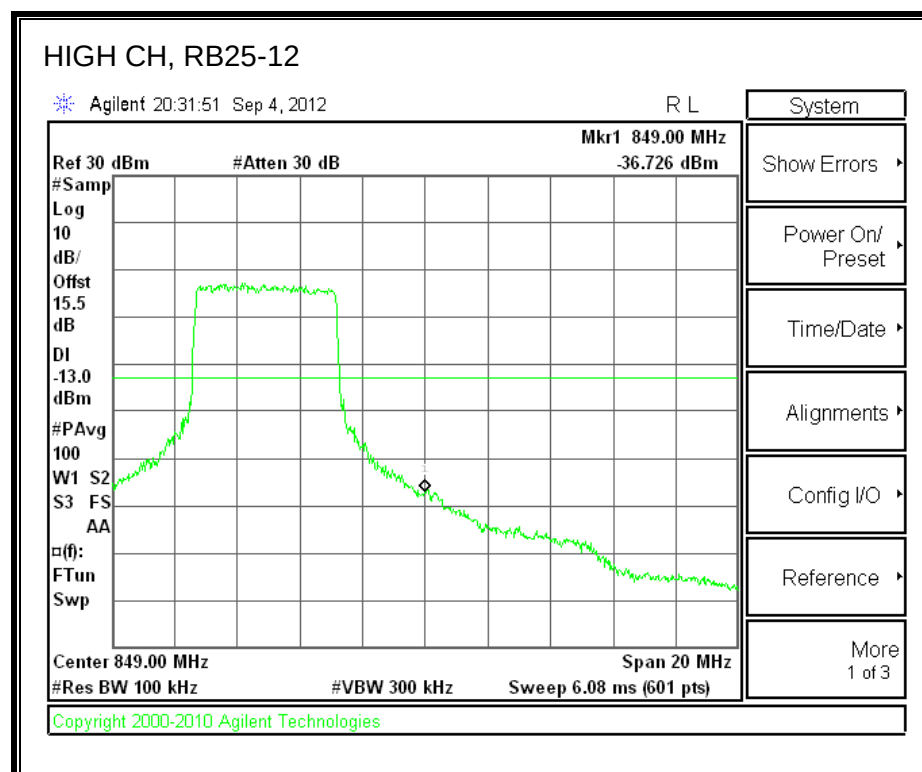
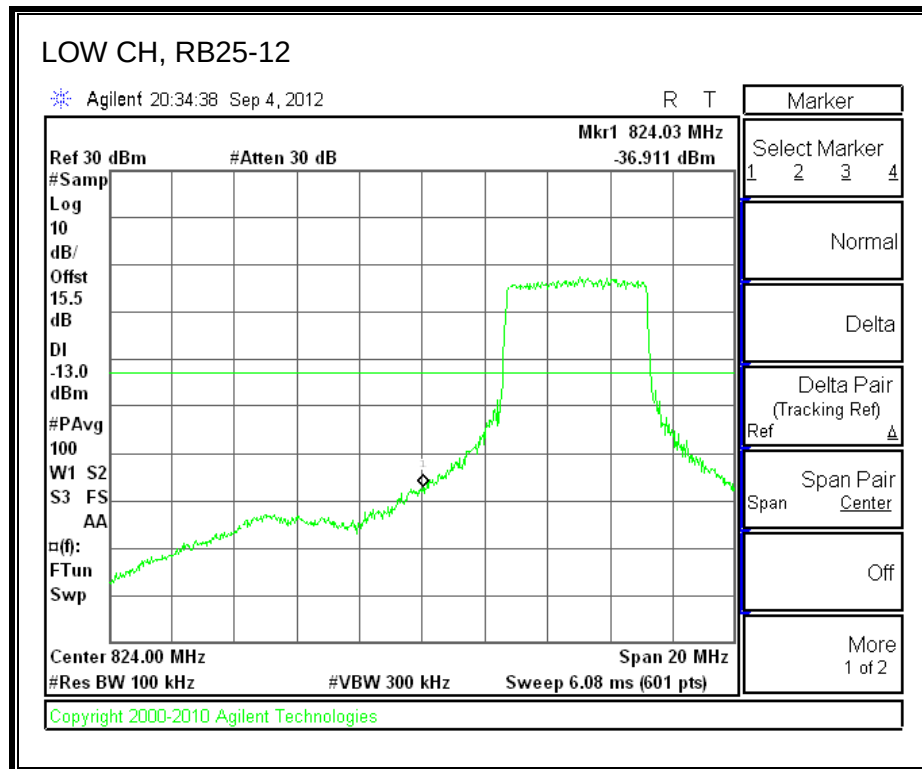


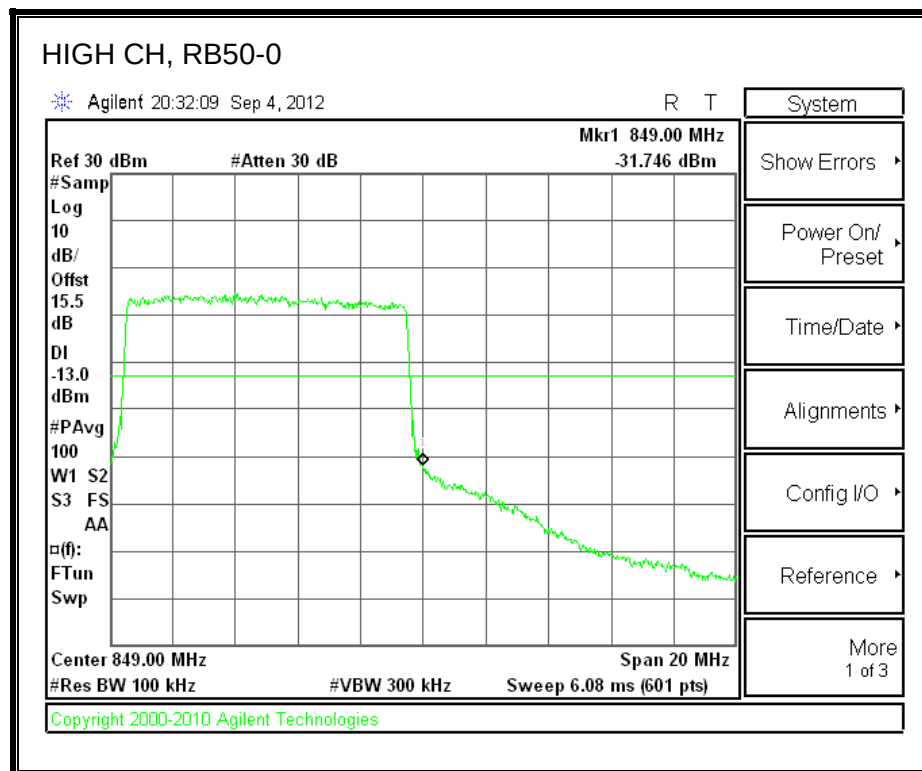
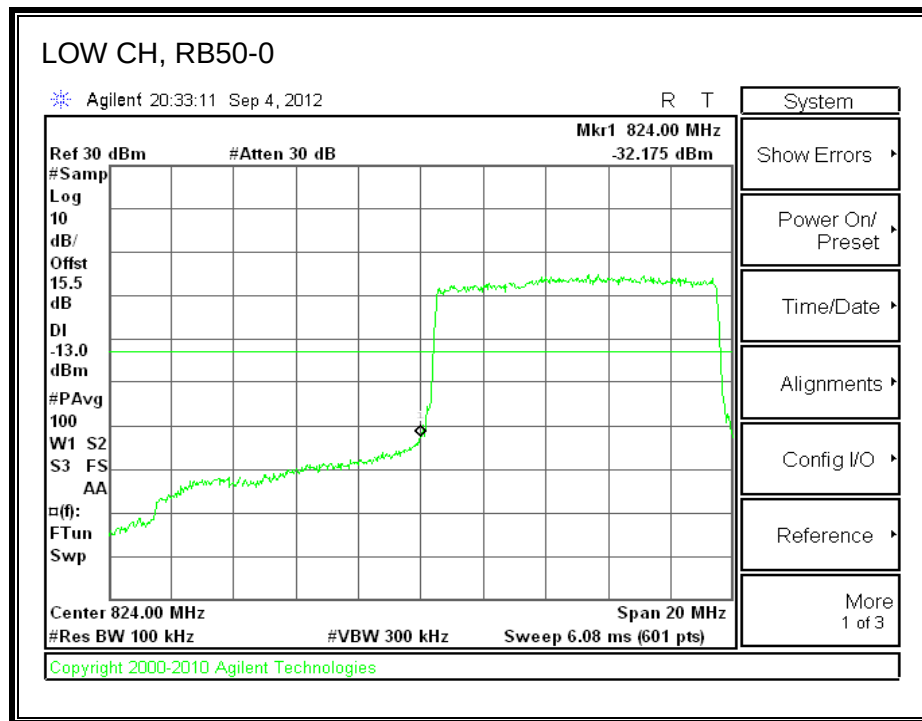


LTE QPSK Band 5 (10 MHz BANDWIDTH)

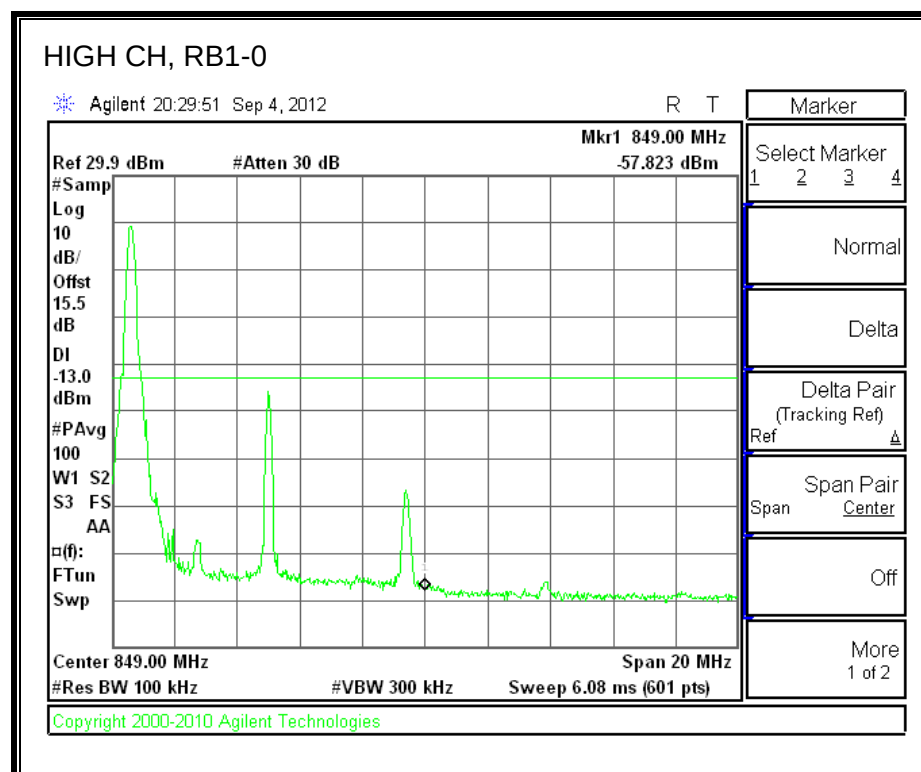
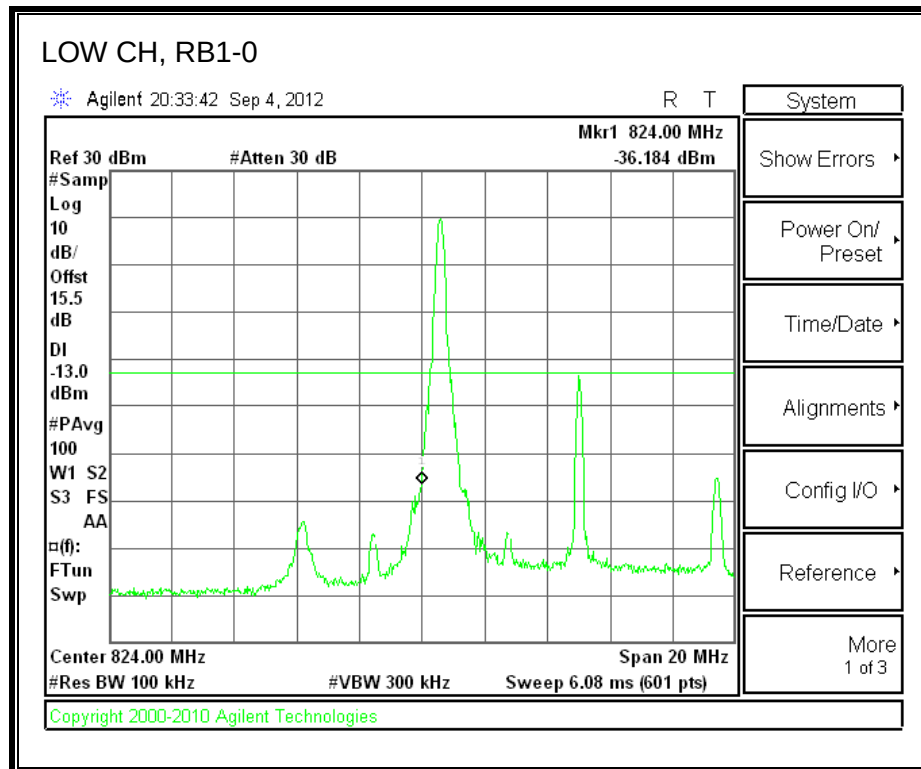


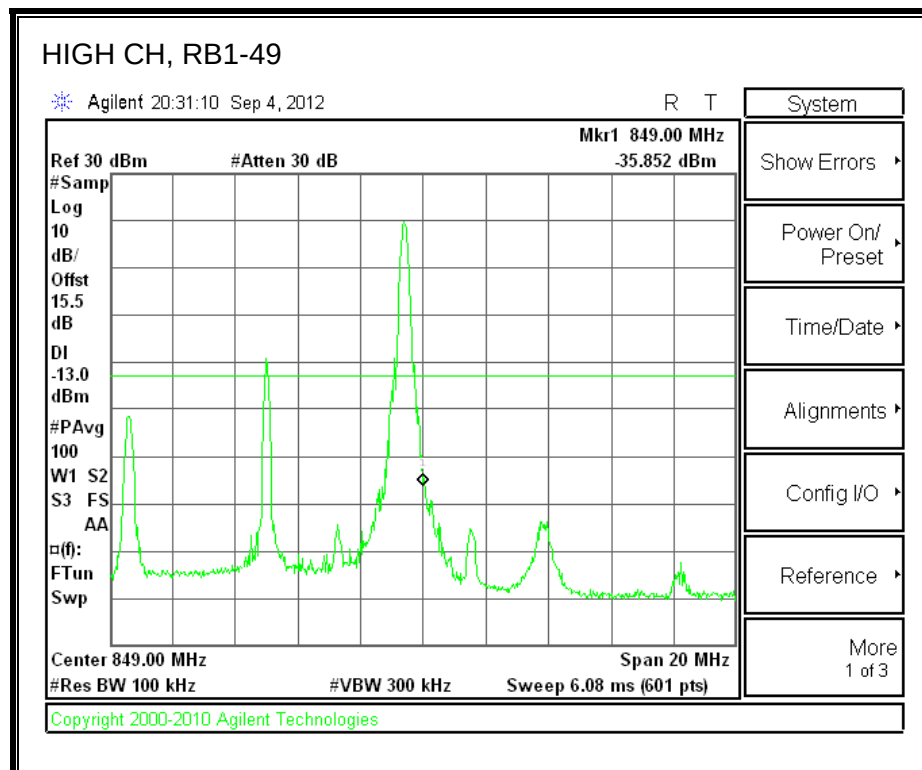
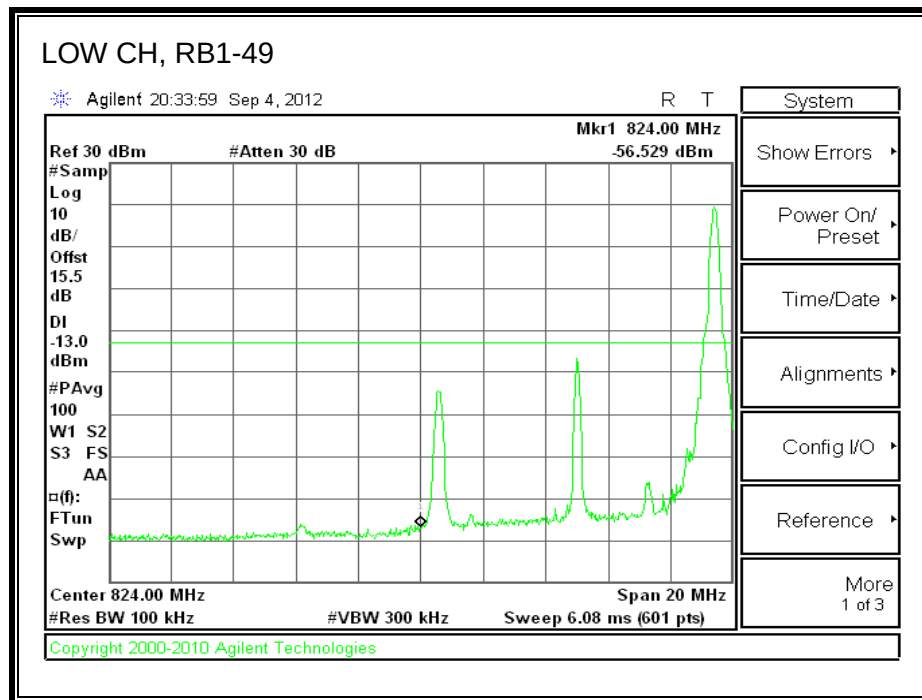


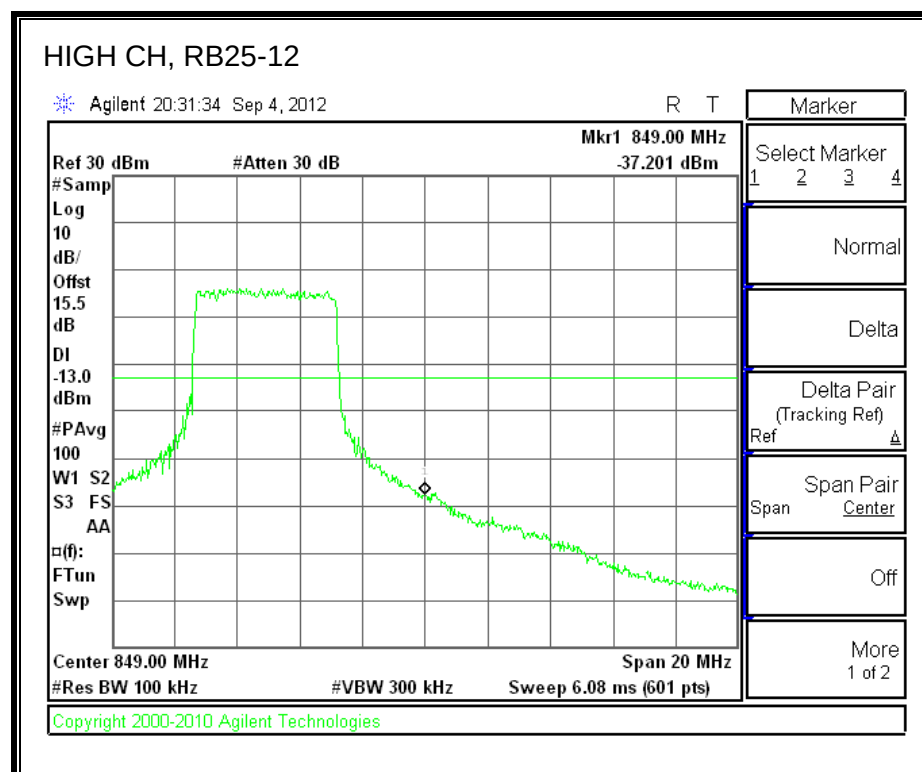
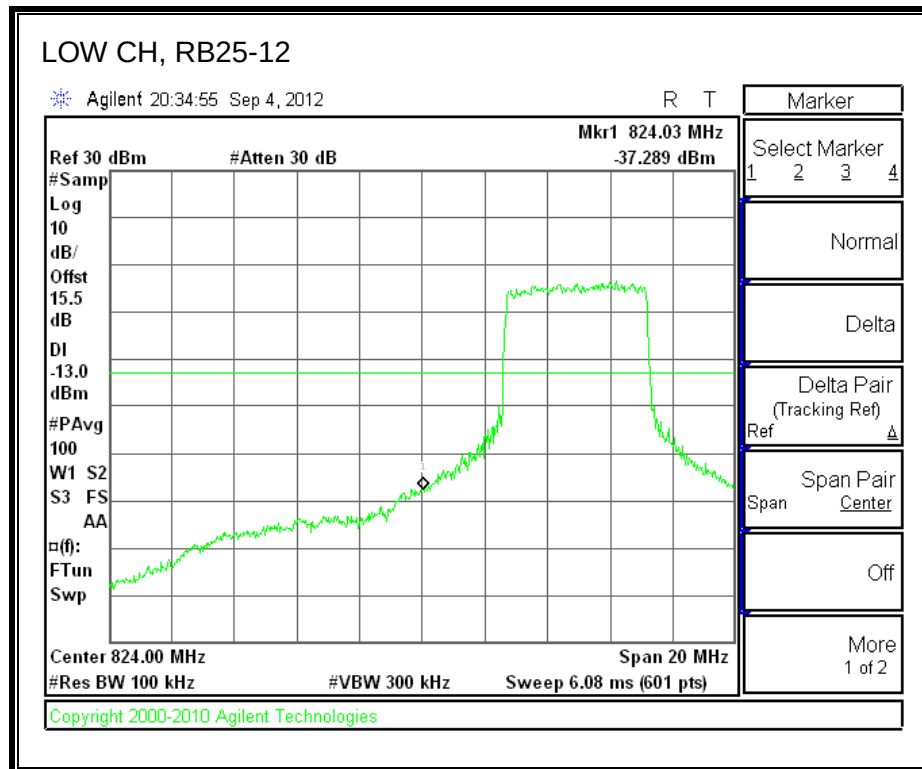


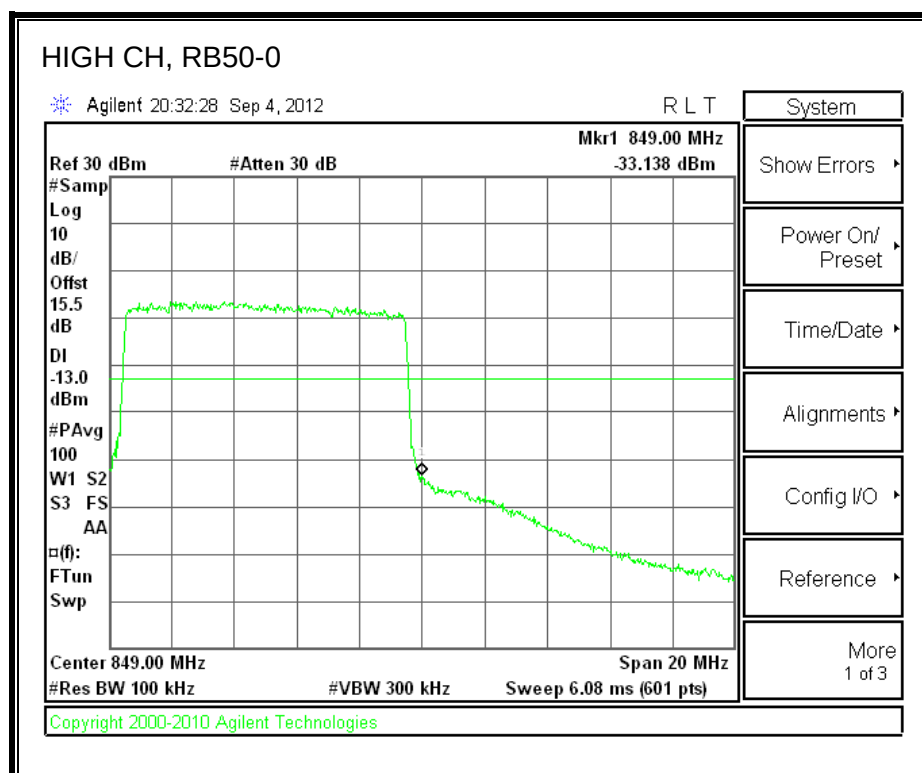
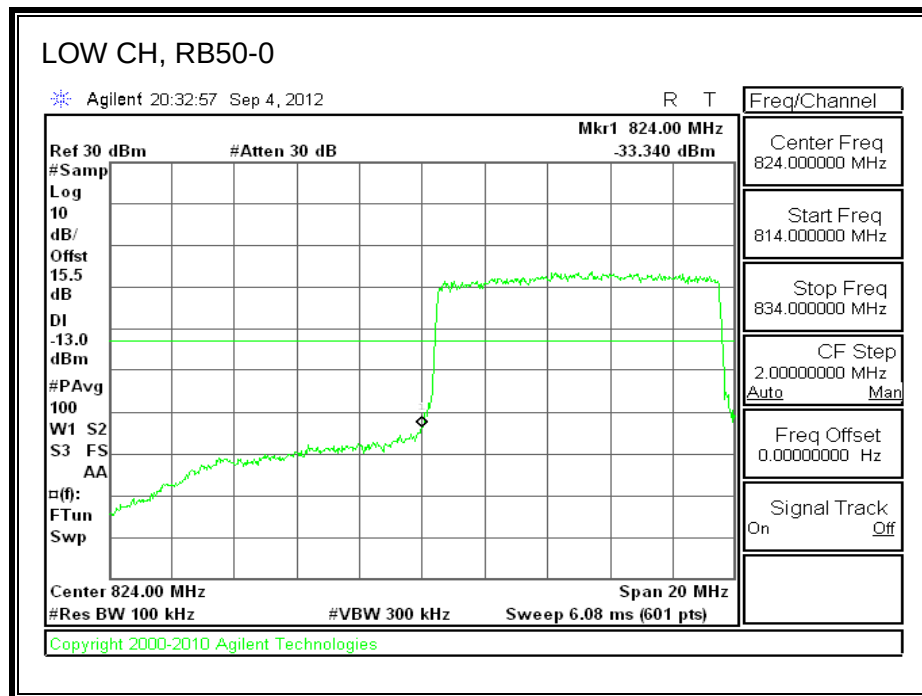


LTE 16QAM Band 5 (10 MHz BANDWIDTH)



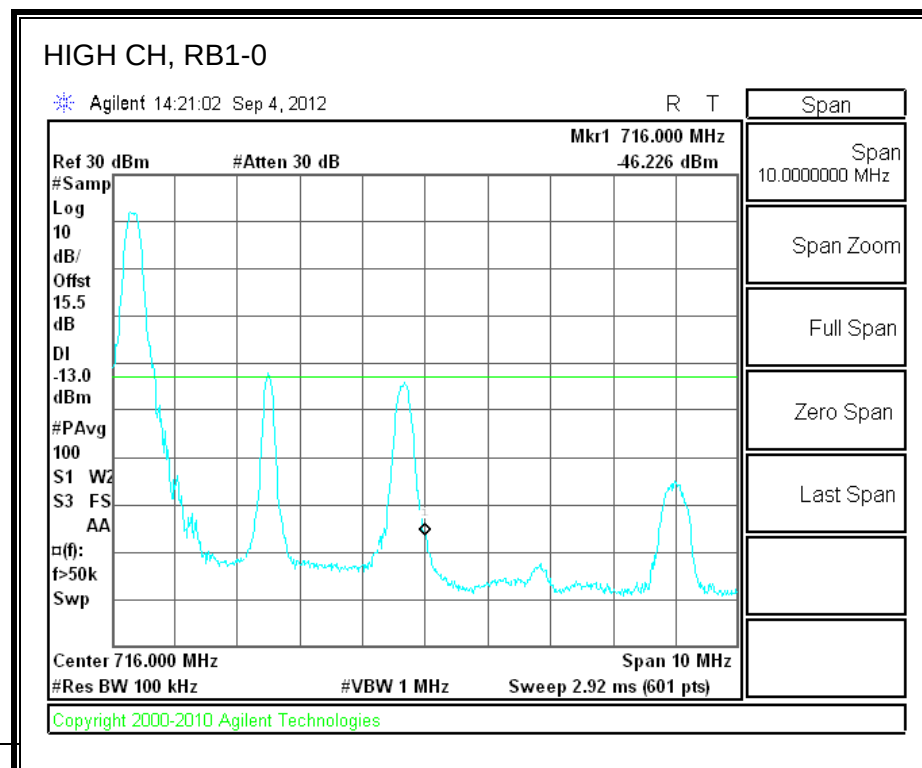
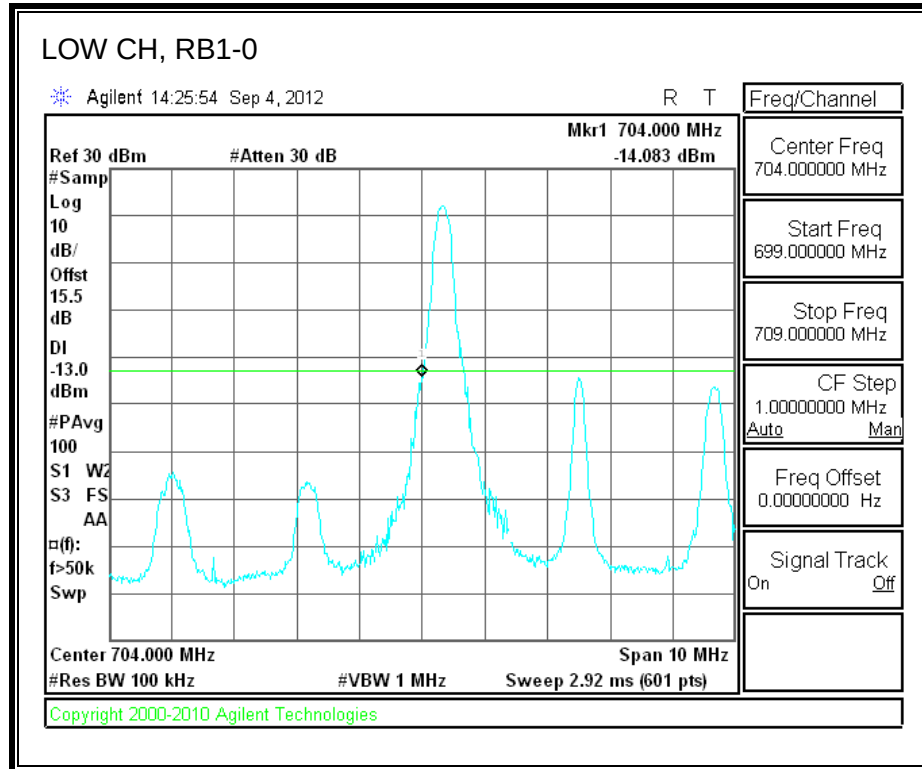


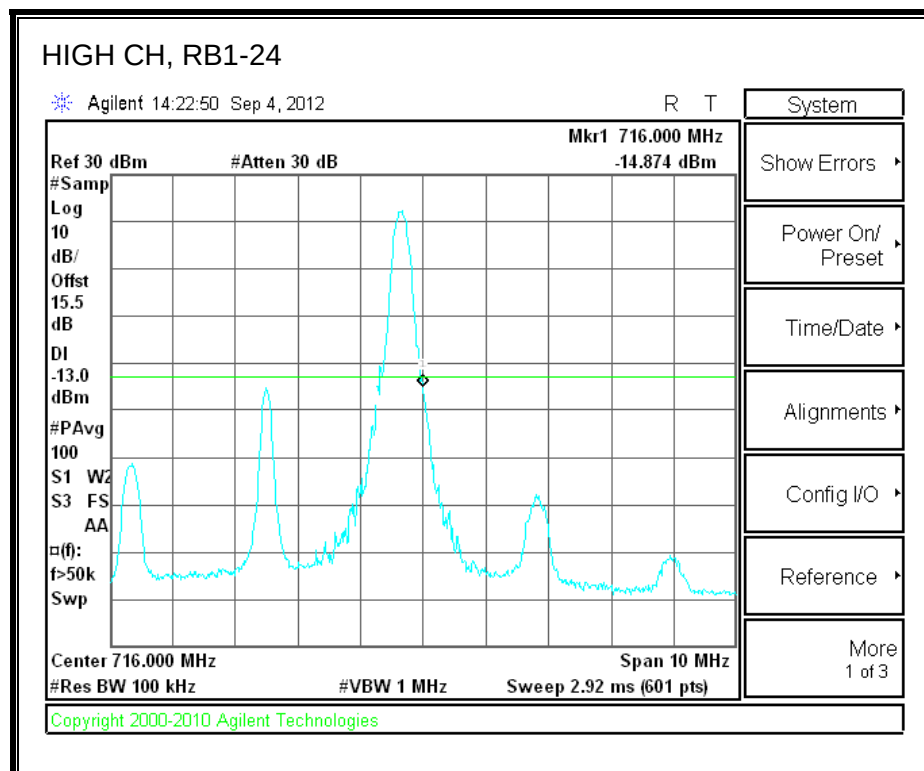
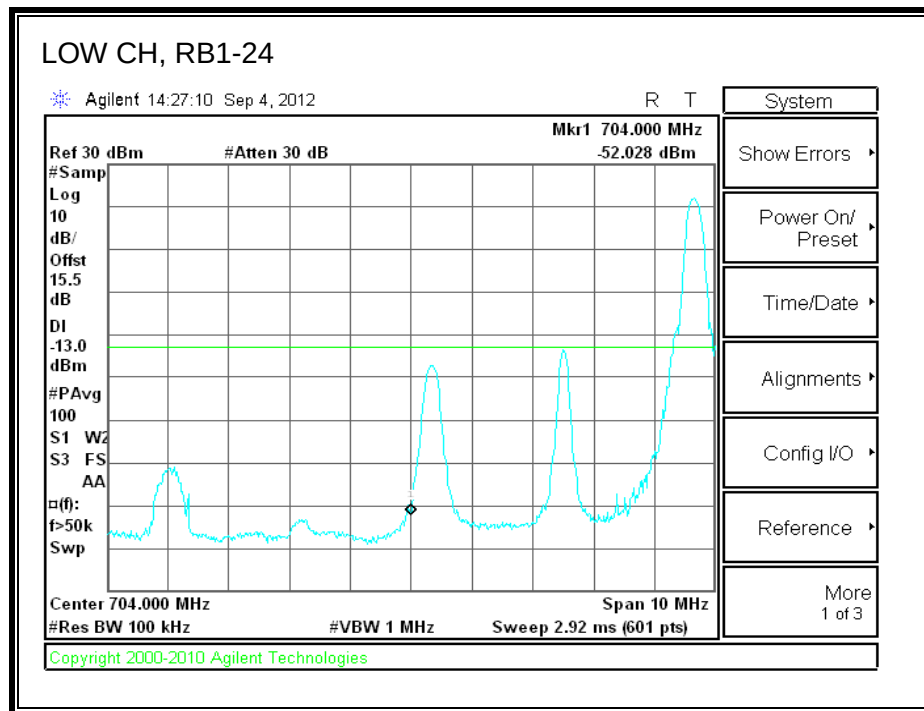


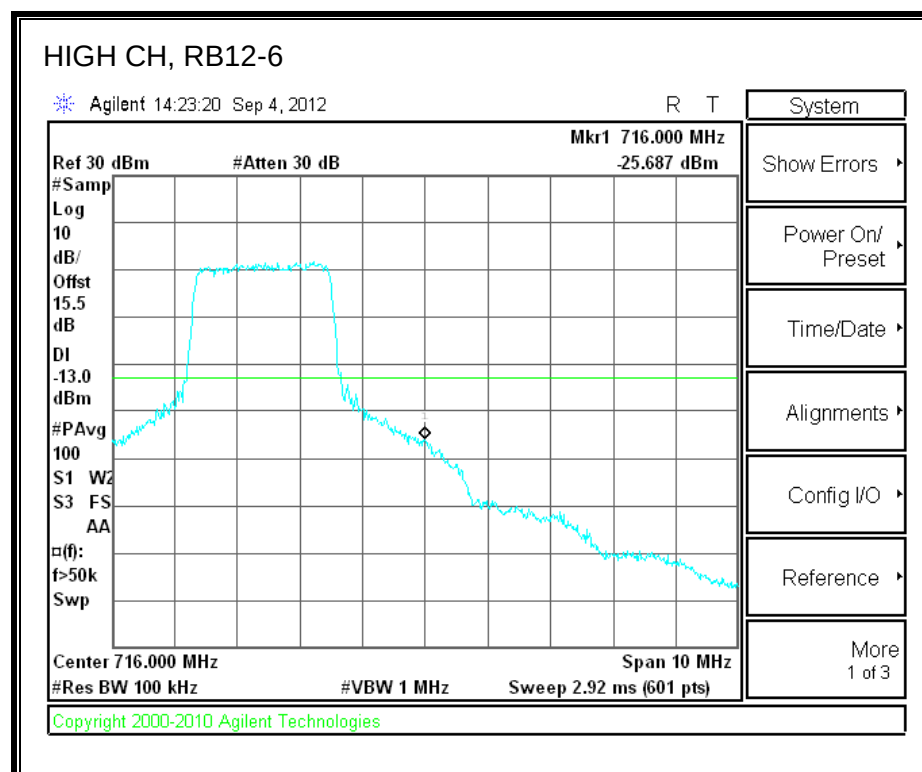
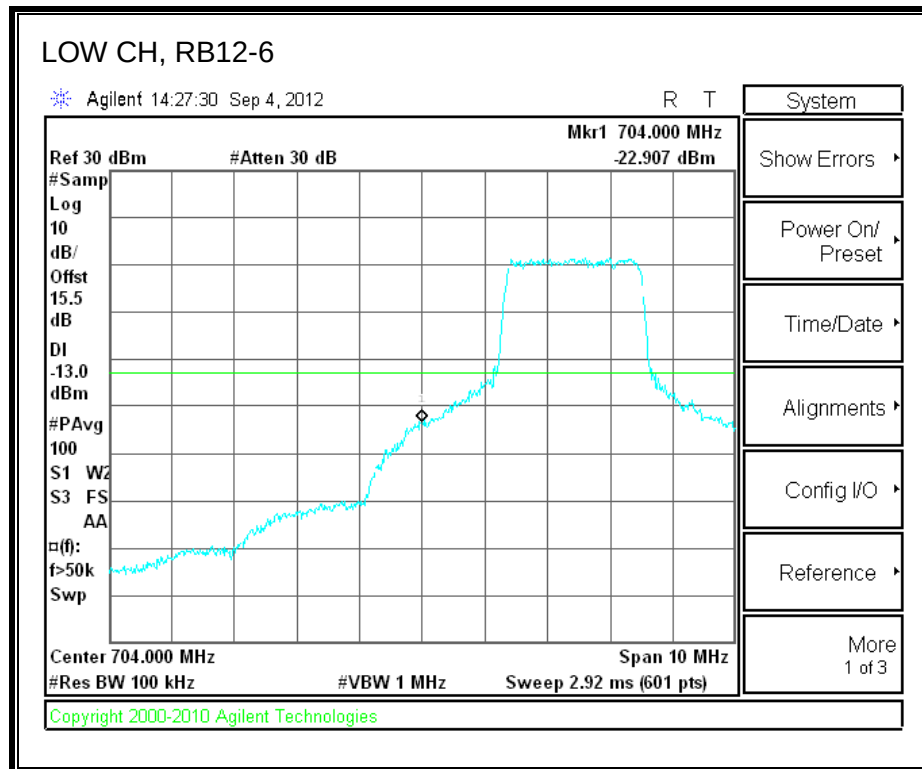


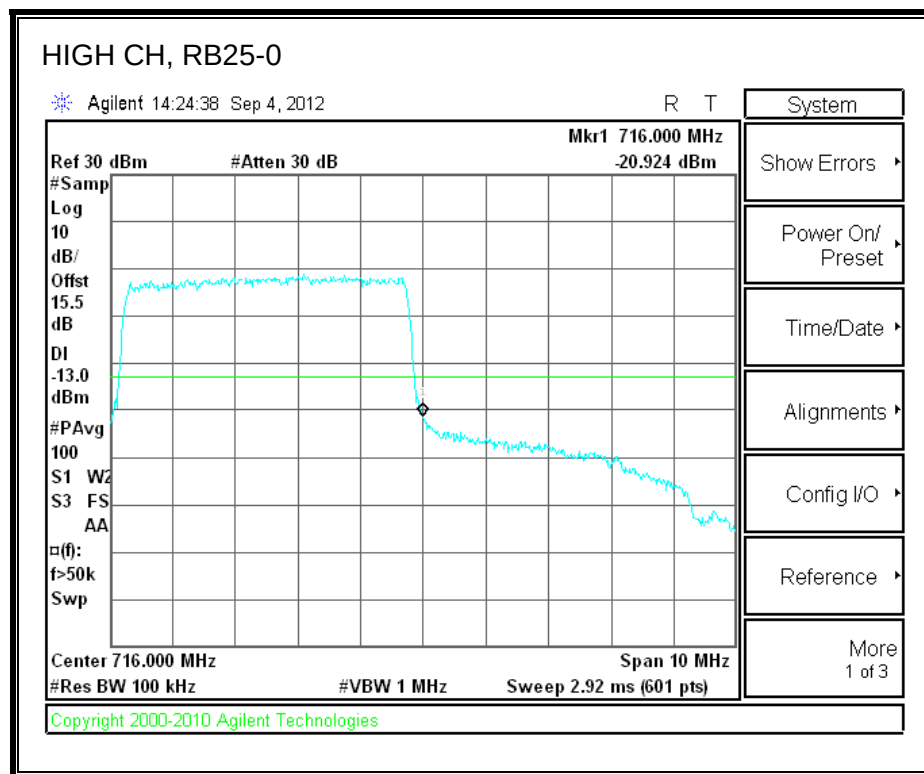
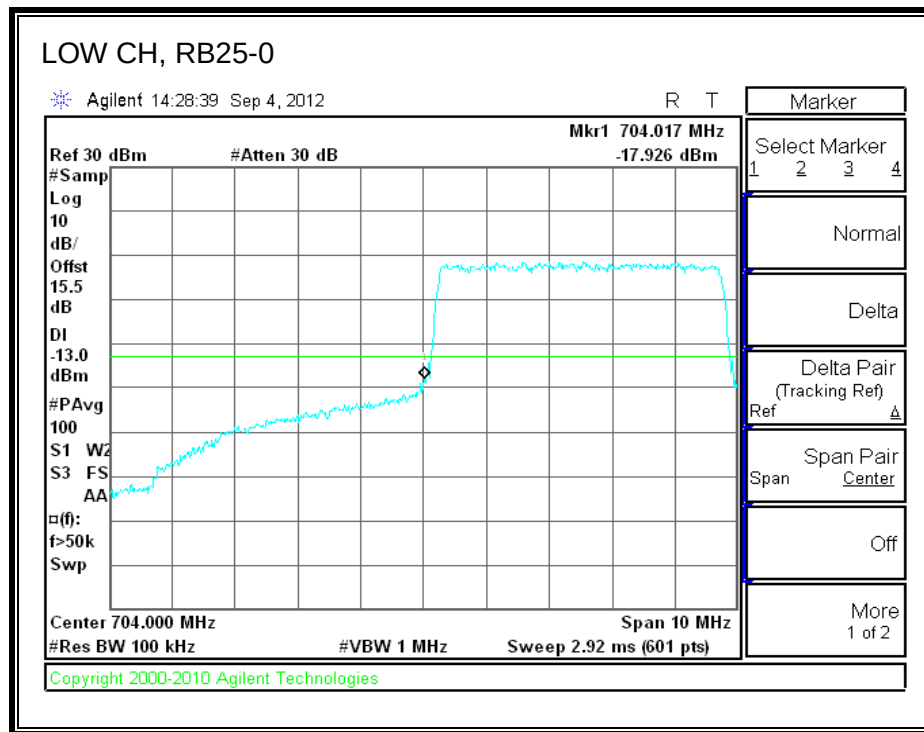
8.2.6. LTE BAND 17

LTE QPSK Band 17 (5 MHz BANDWIDTH)

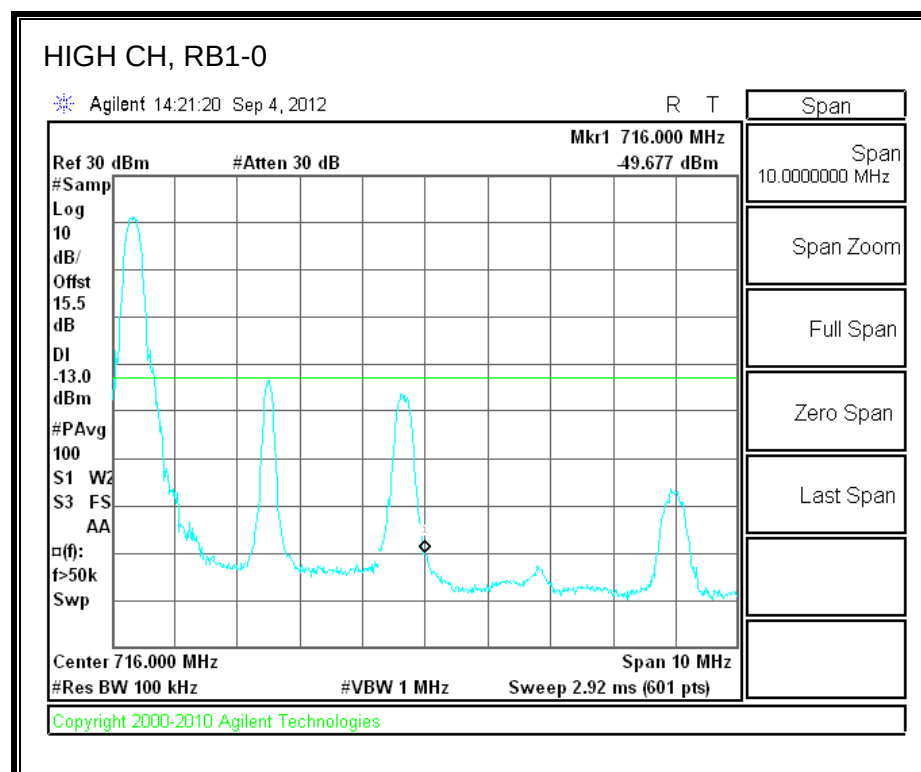
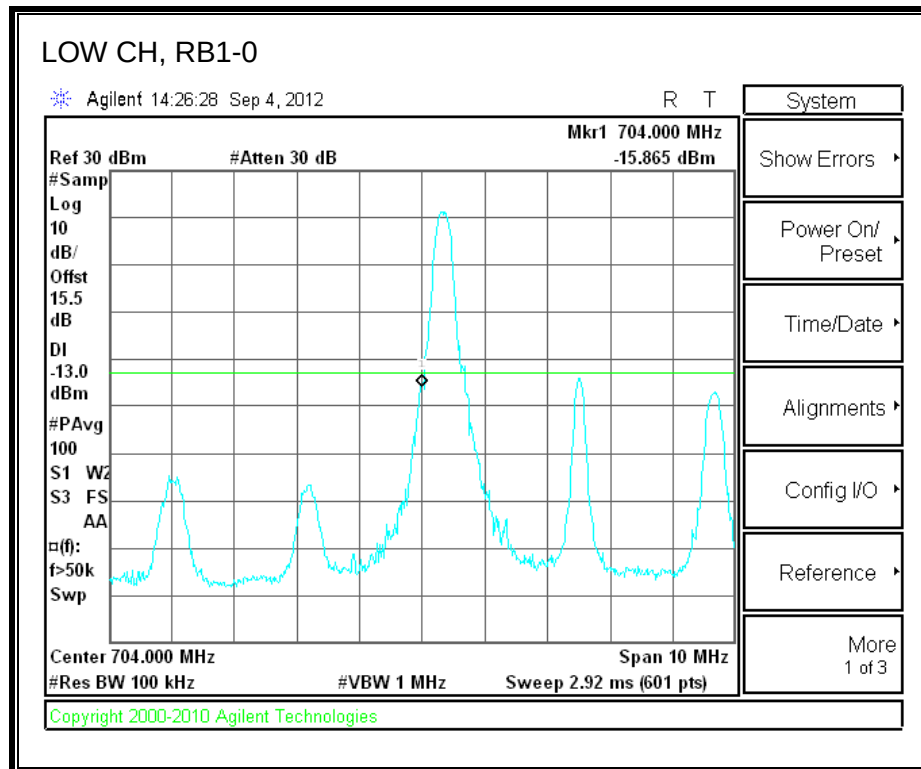


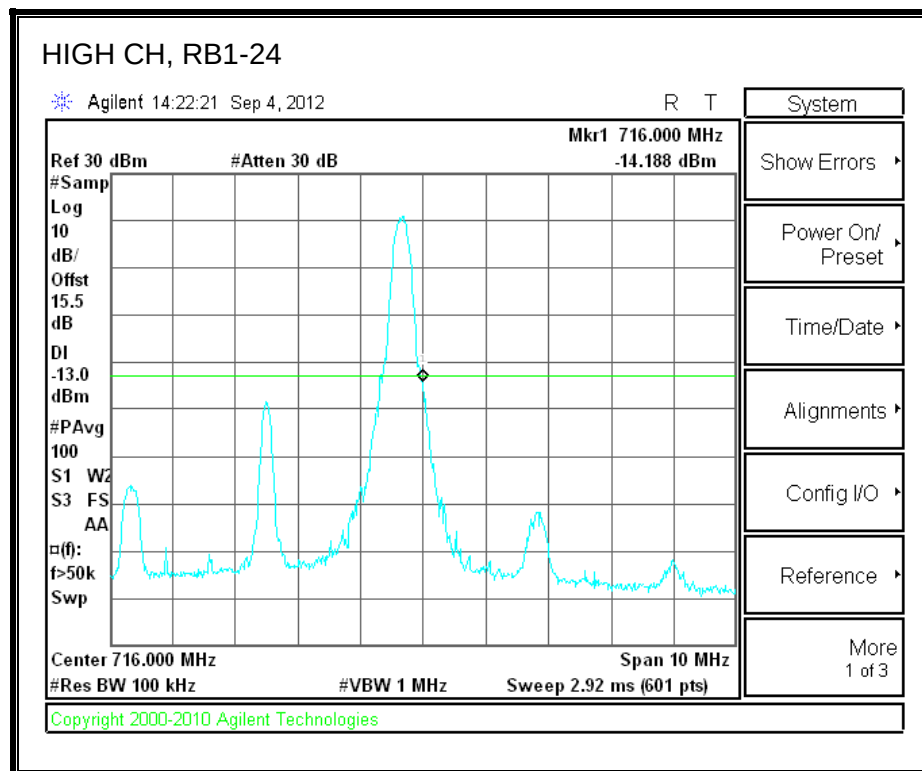
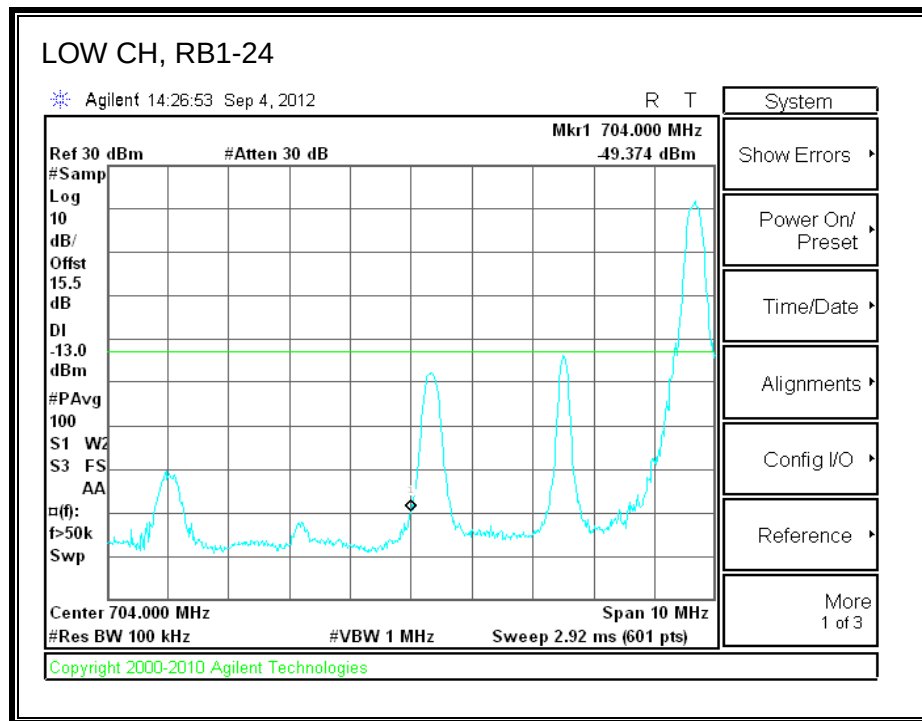


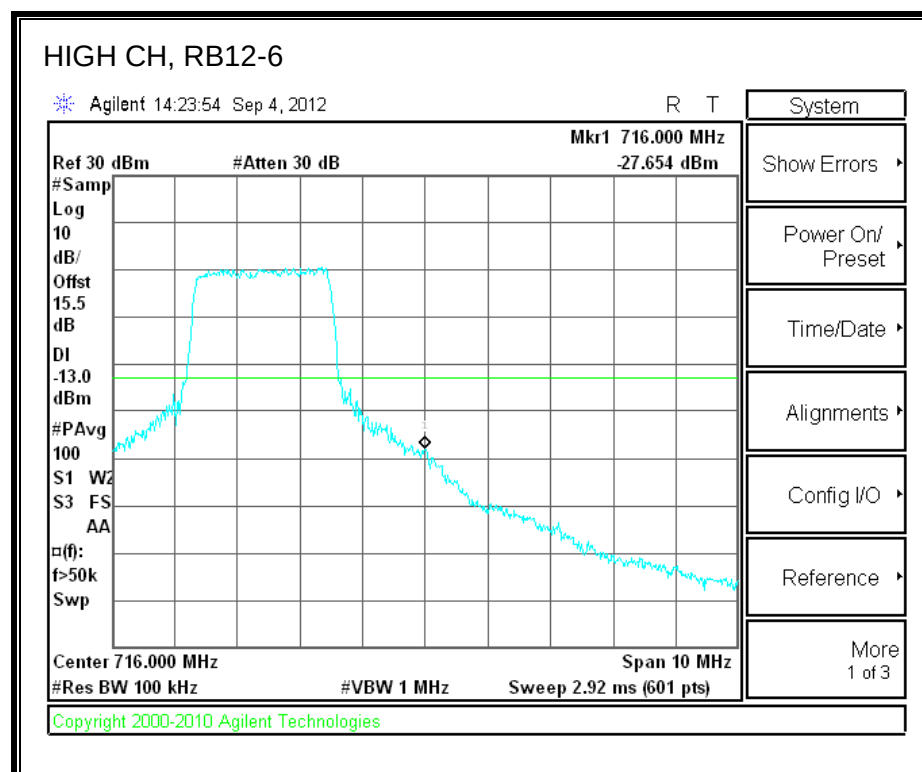
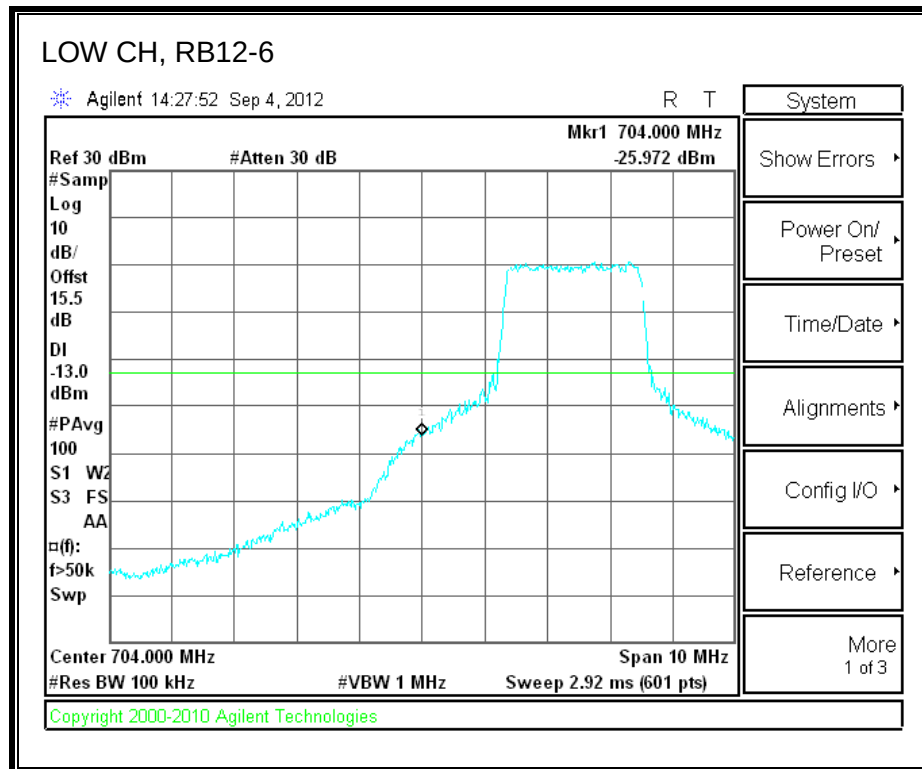


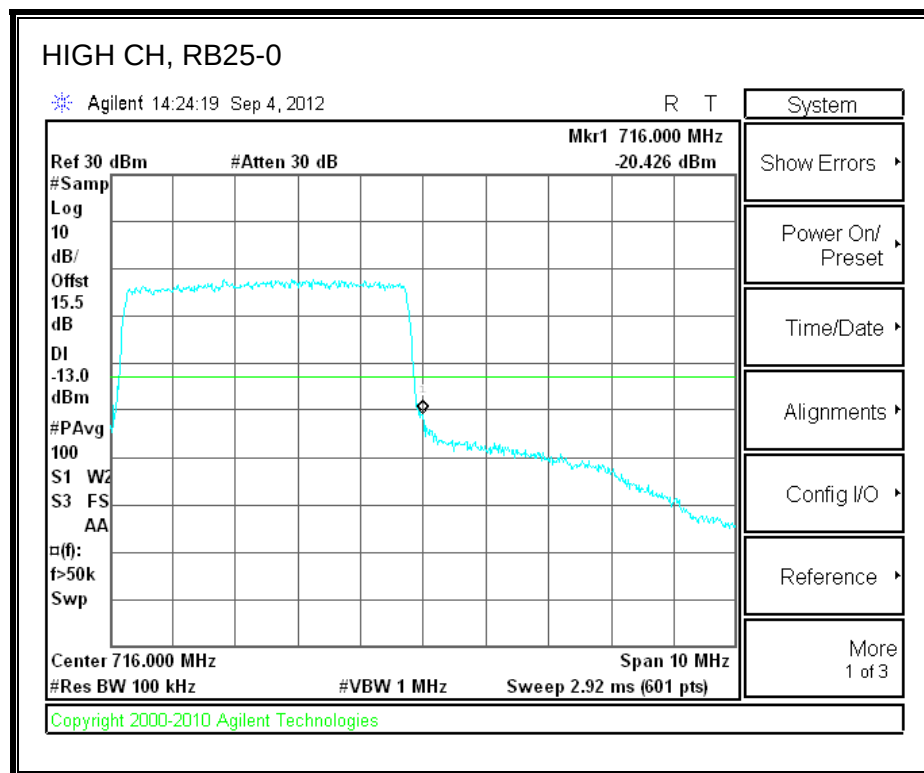
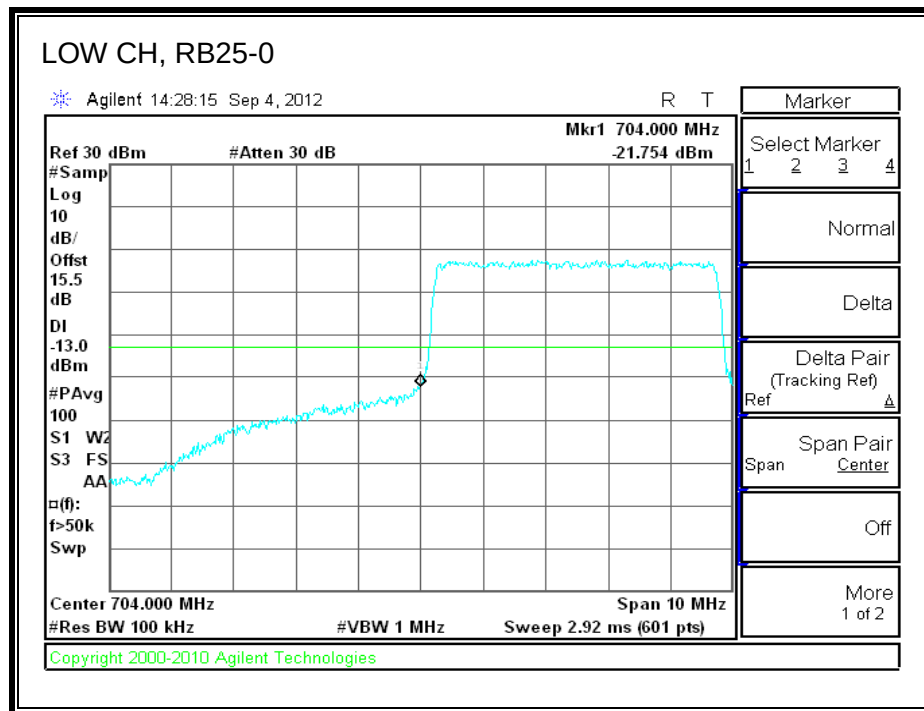


LTE 16QAM Band 17 (5 MHz BANDWIDTH)

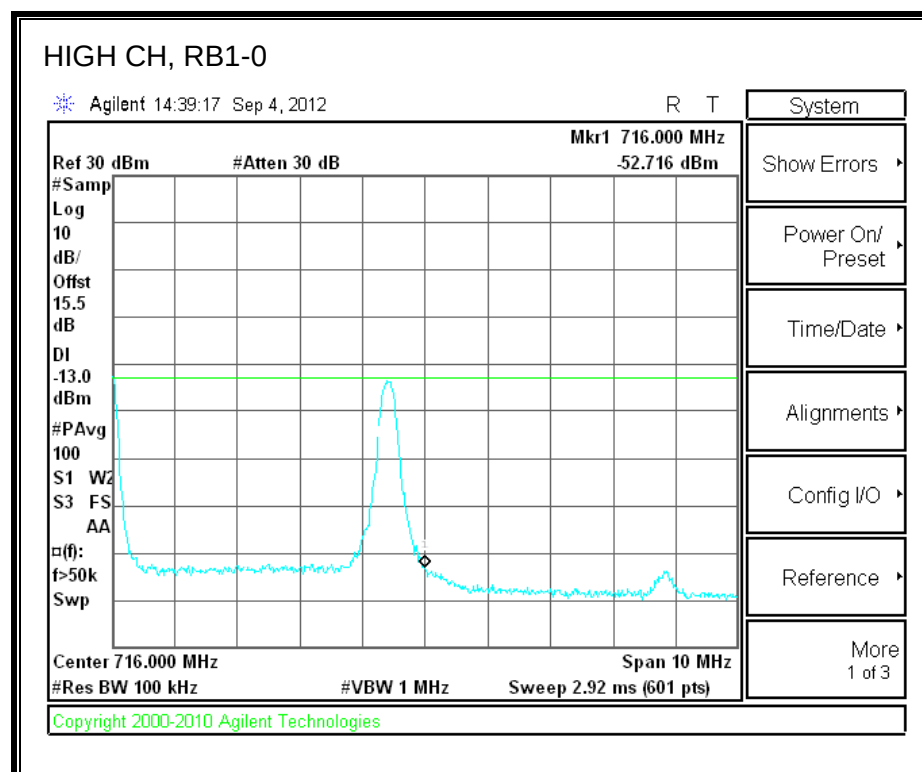
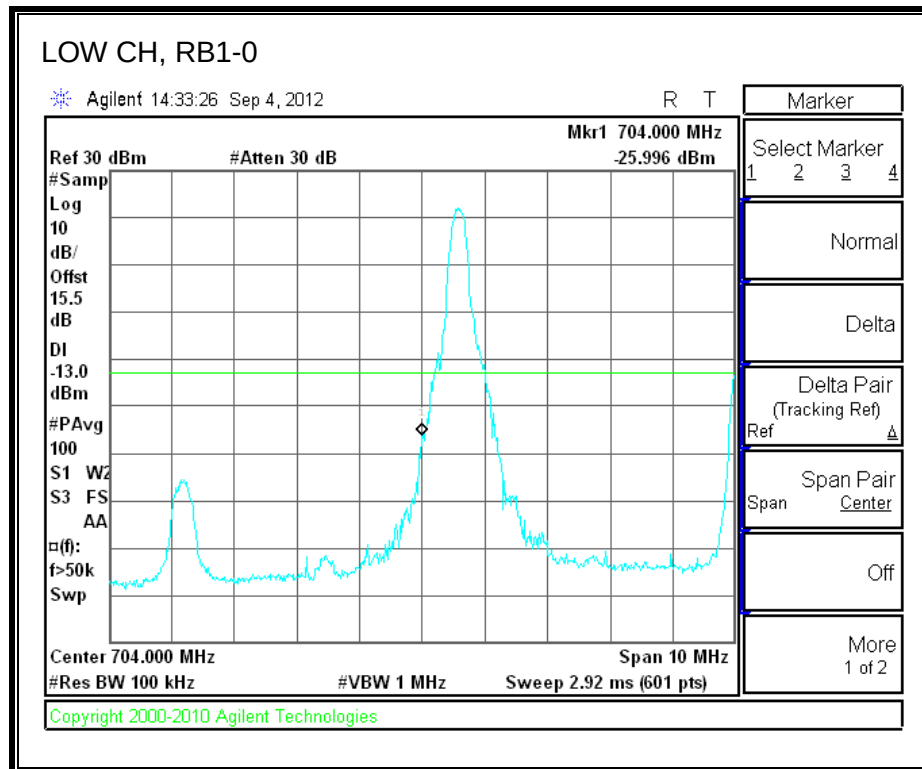


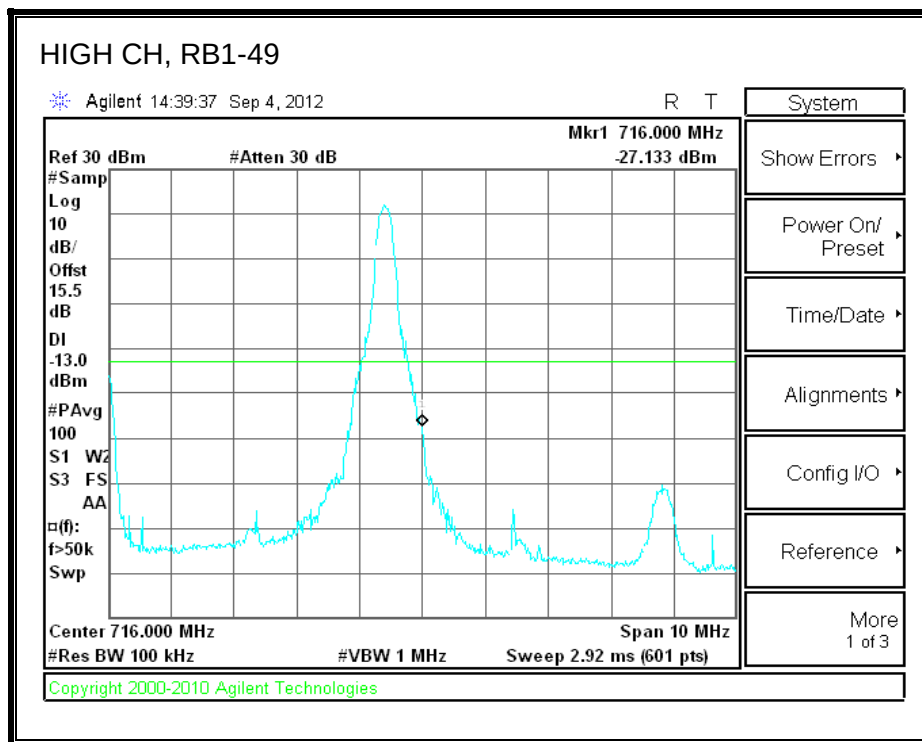
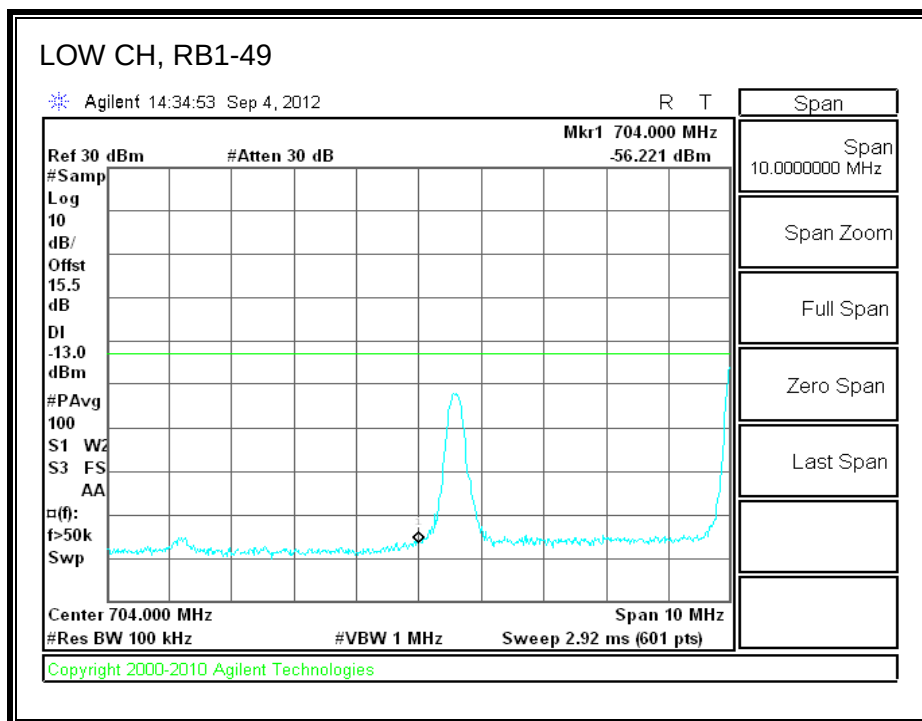


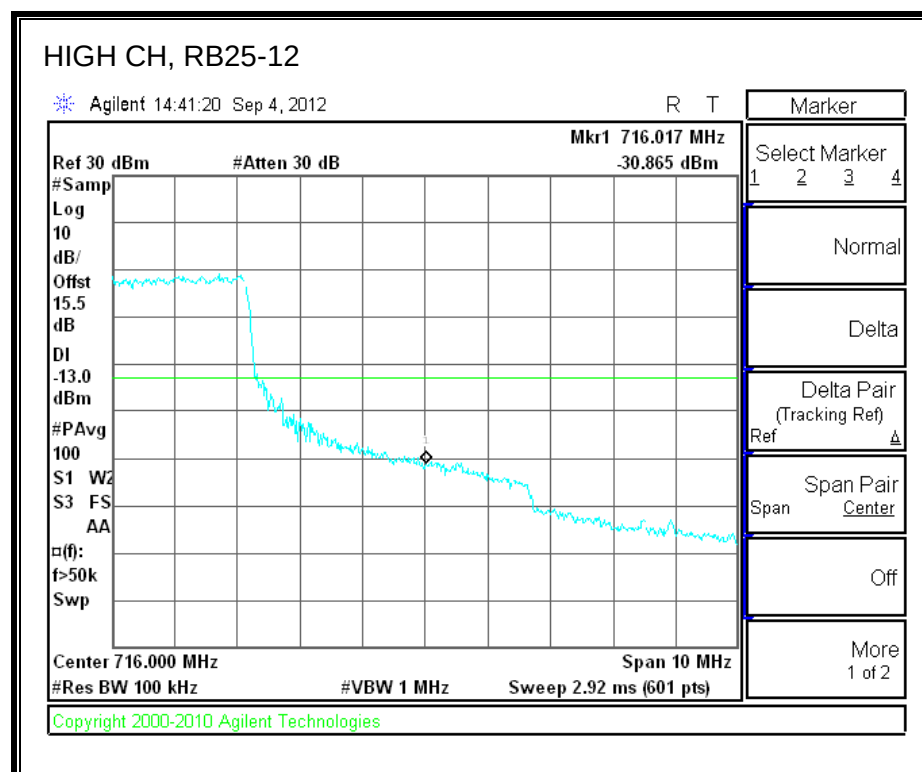
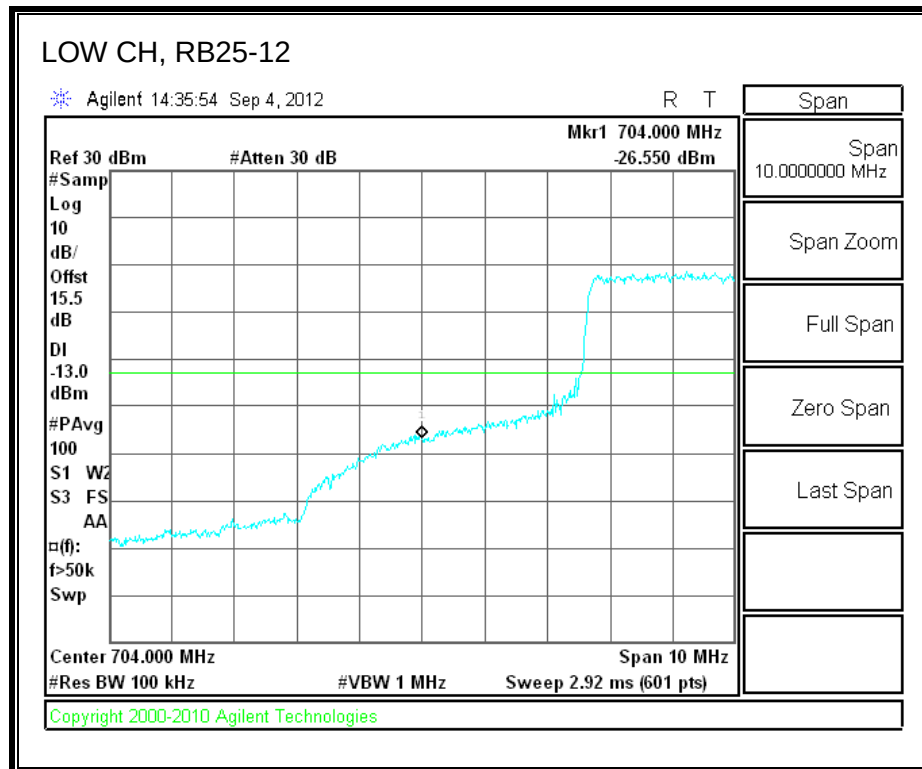


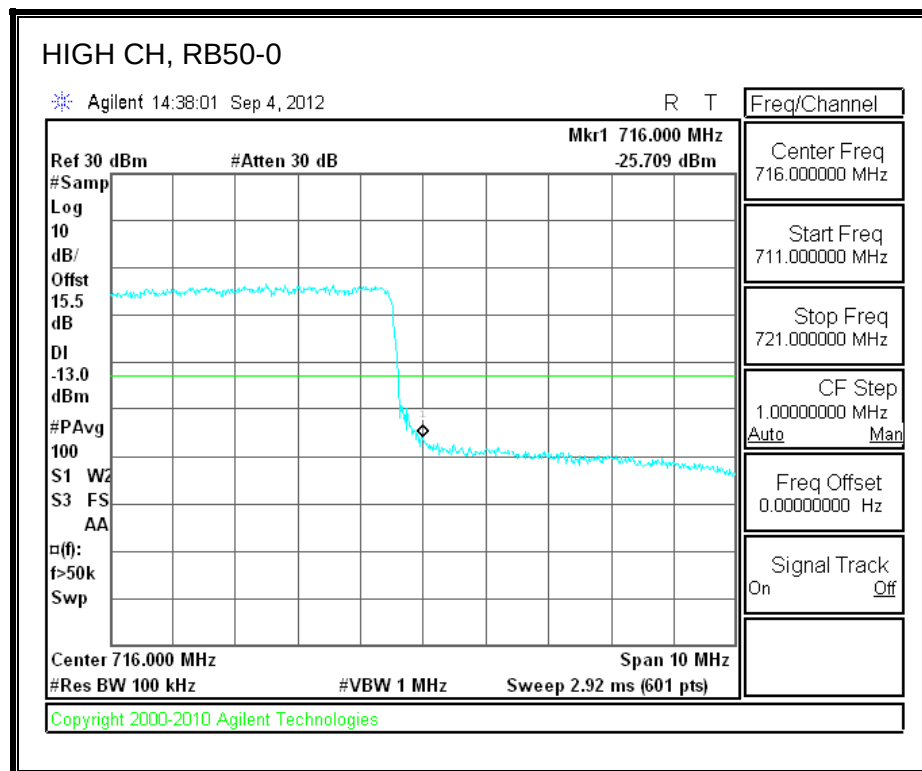
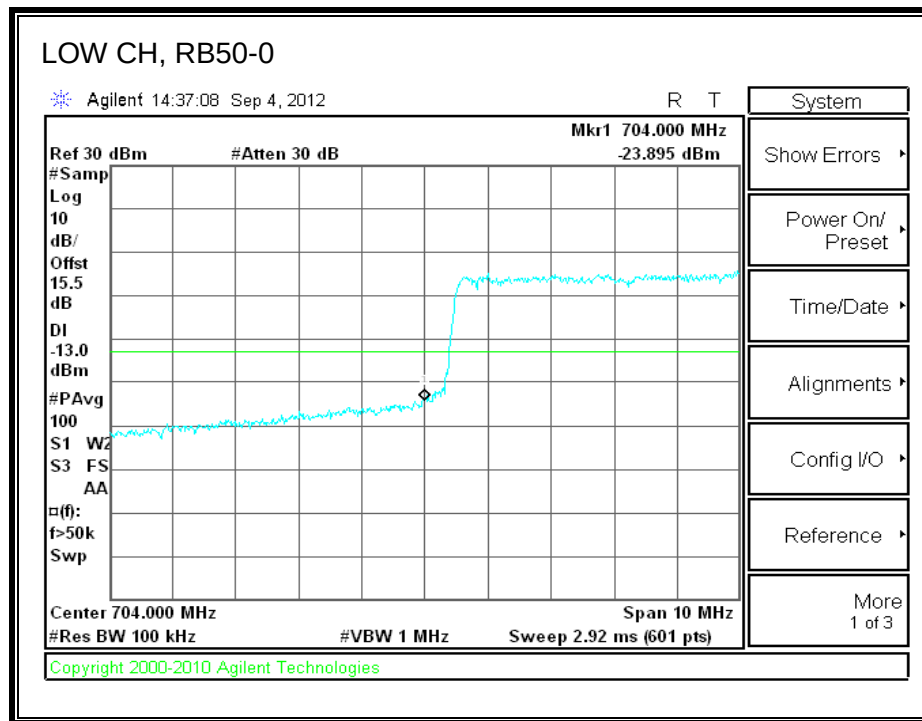


LTE QPSK Band 17 (10 MHz BANDWIDTH)

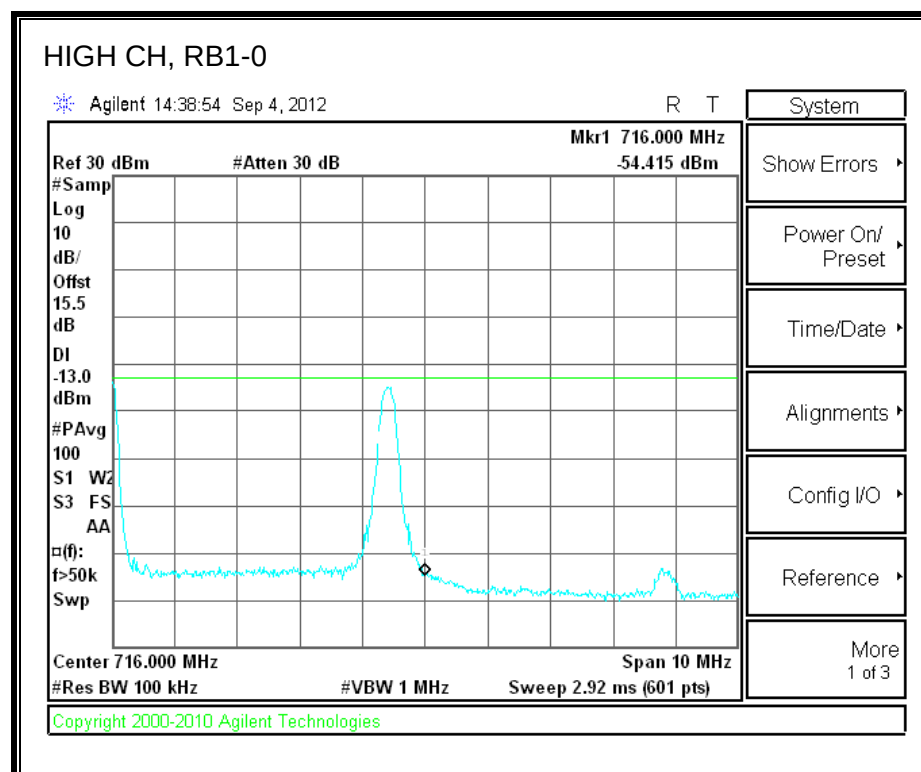
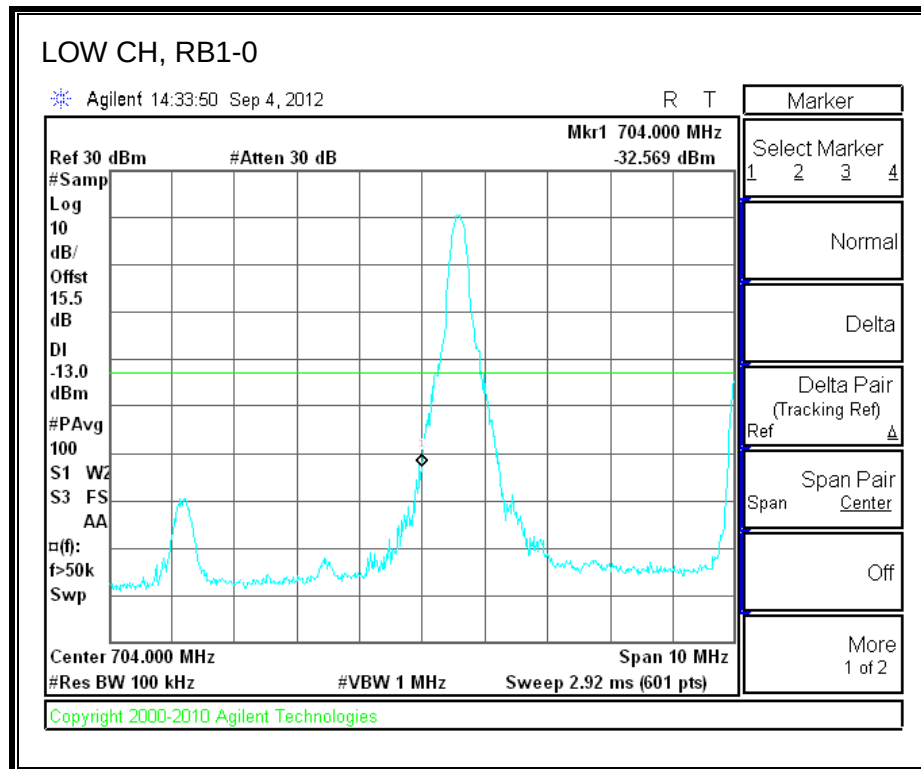


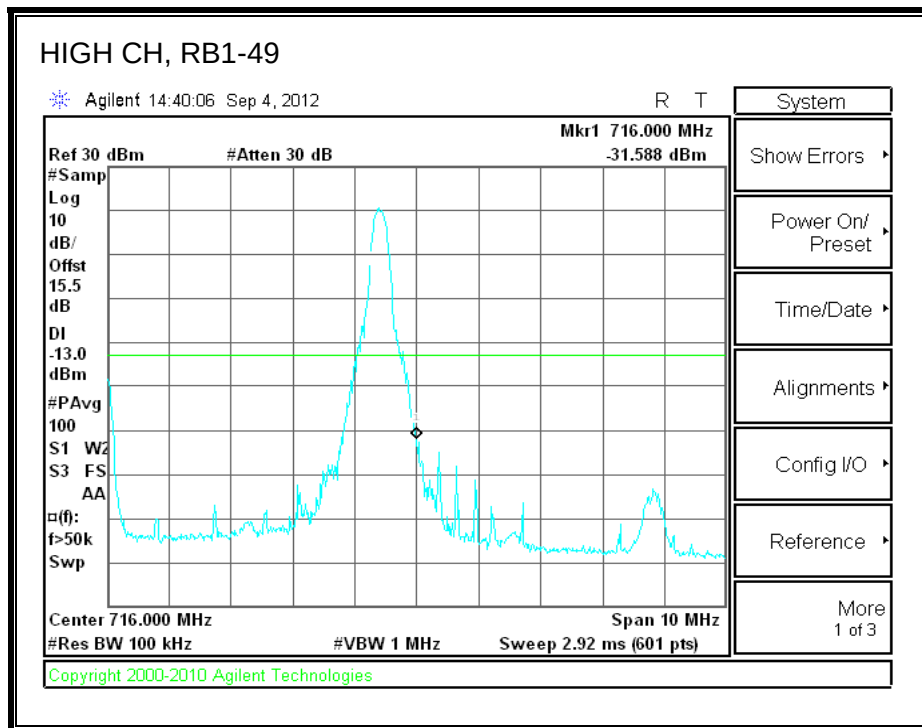
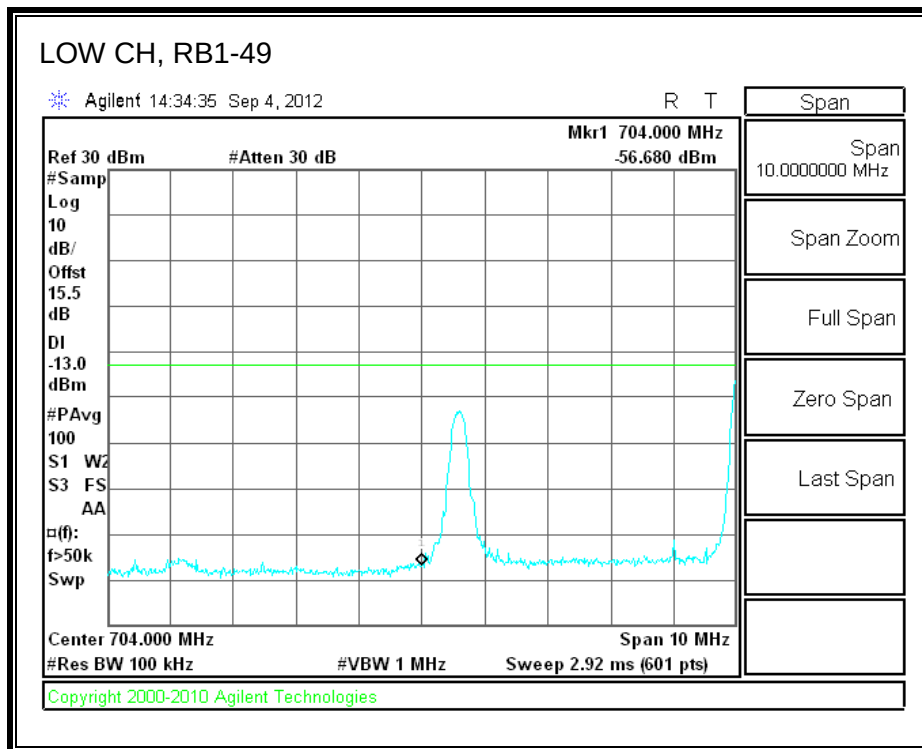


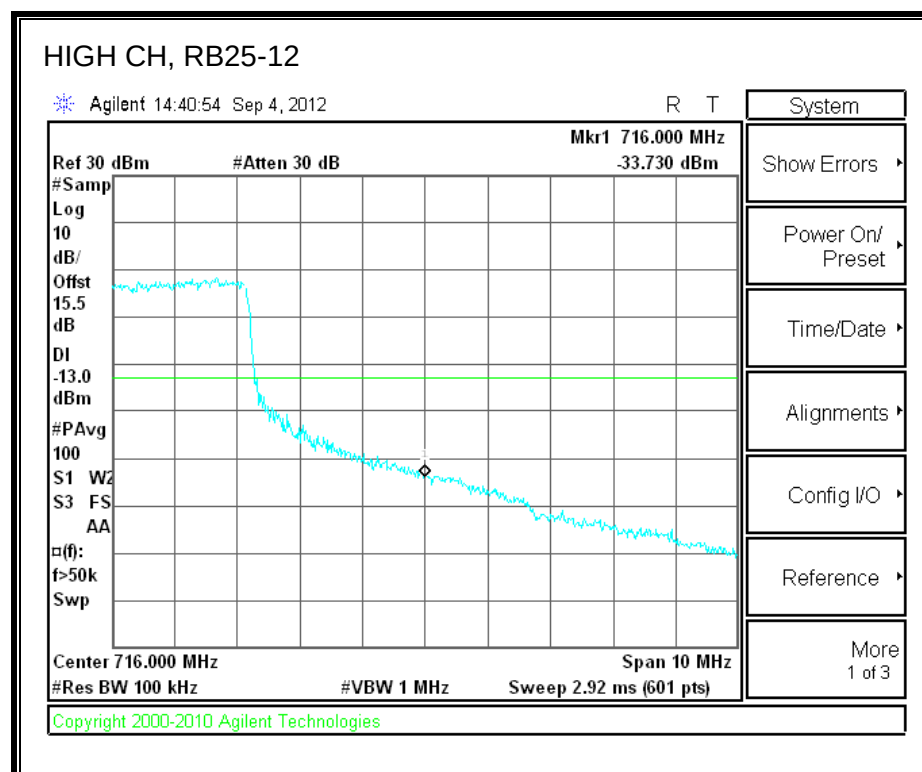
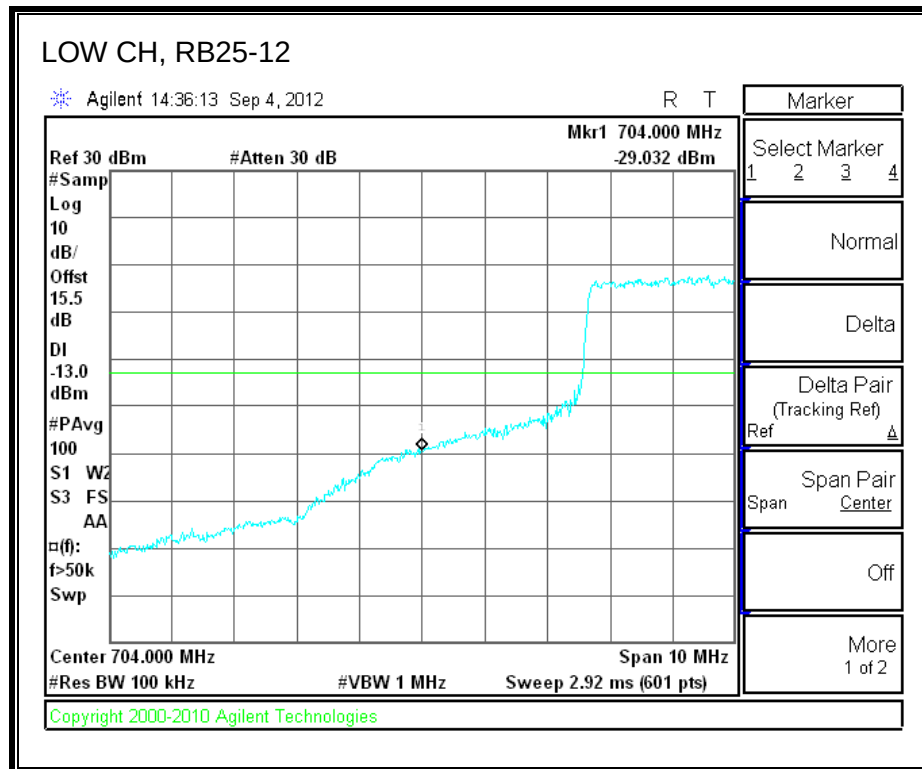


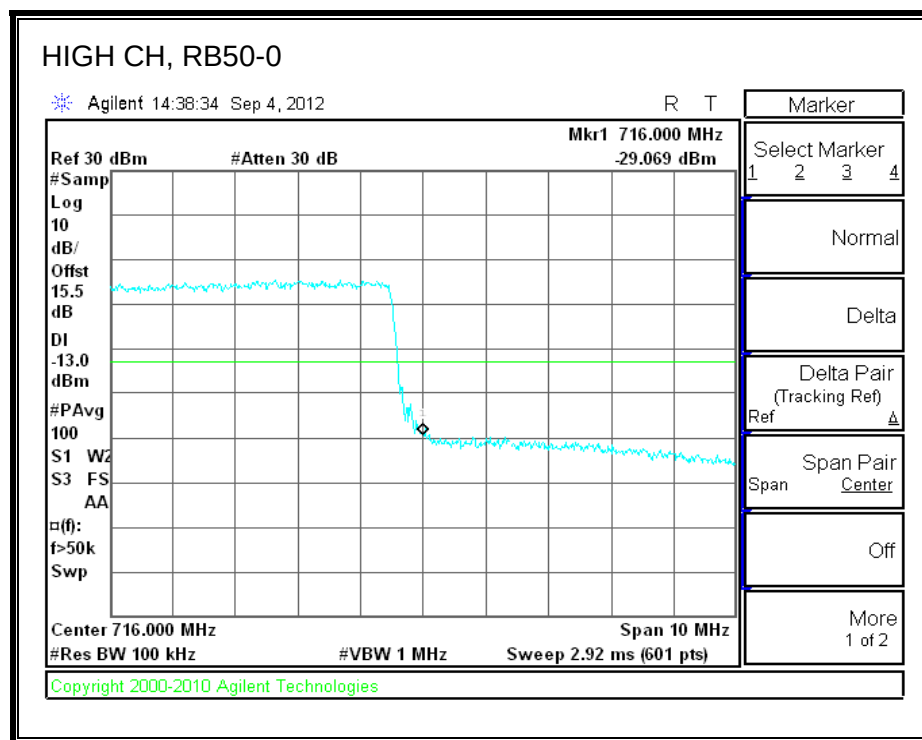
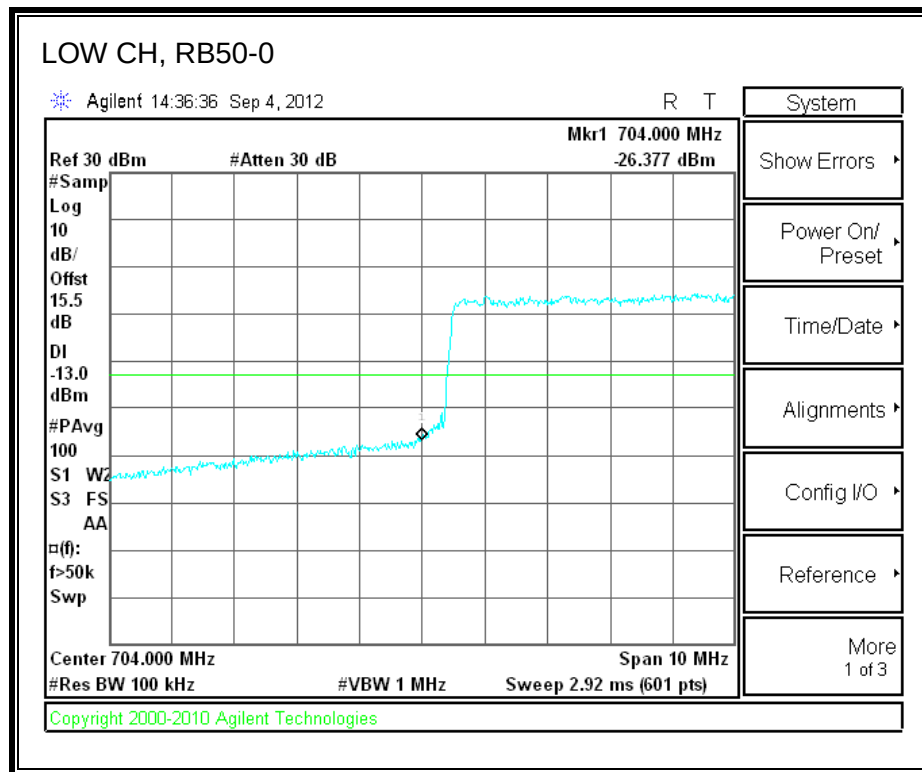


LTE 16QAM Band 17 (10 MHz BANDWIDTH)









8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238

LIMITS

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.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

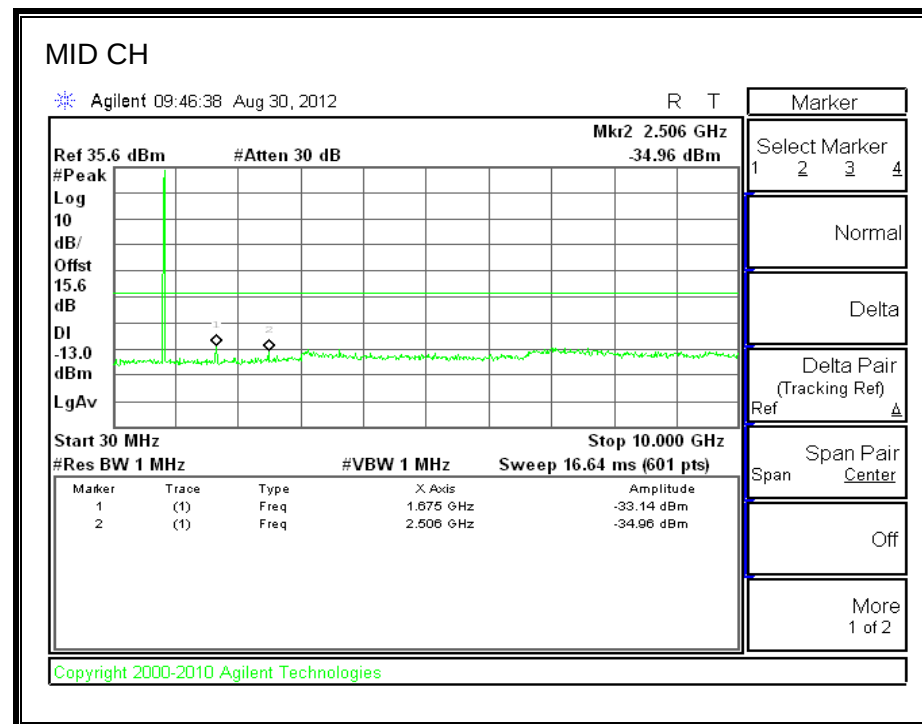
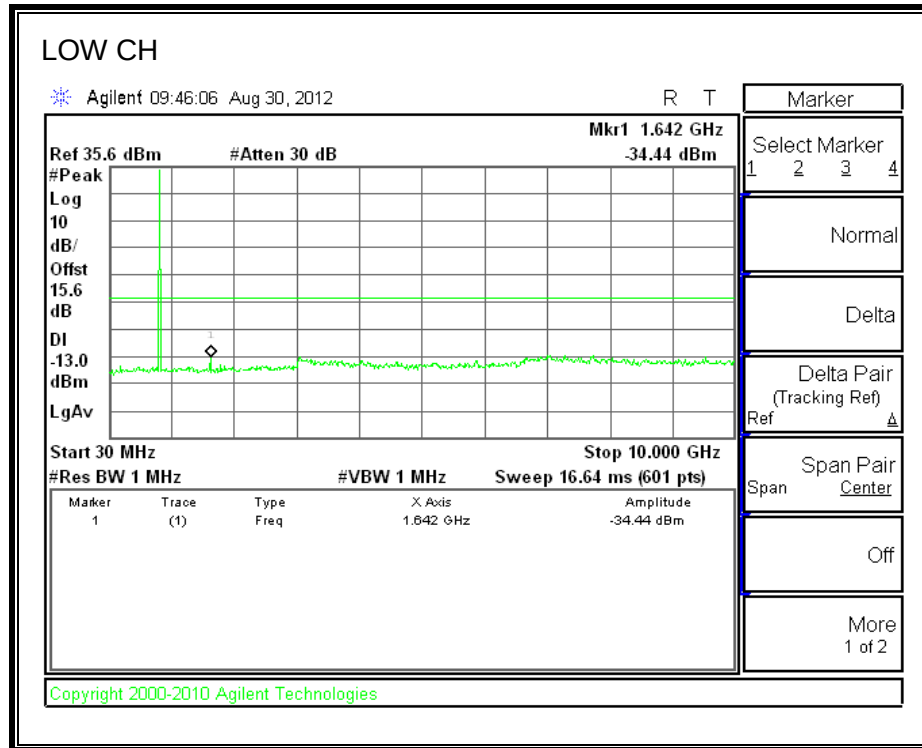
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

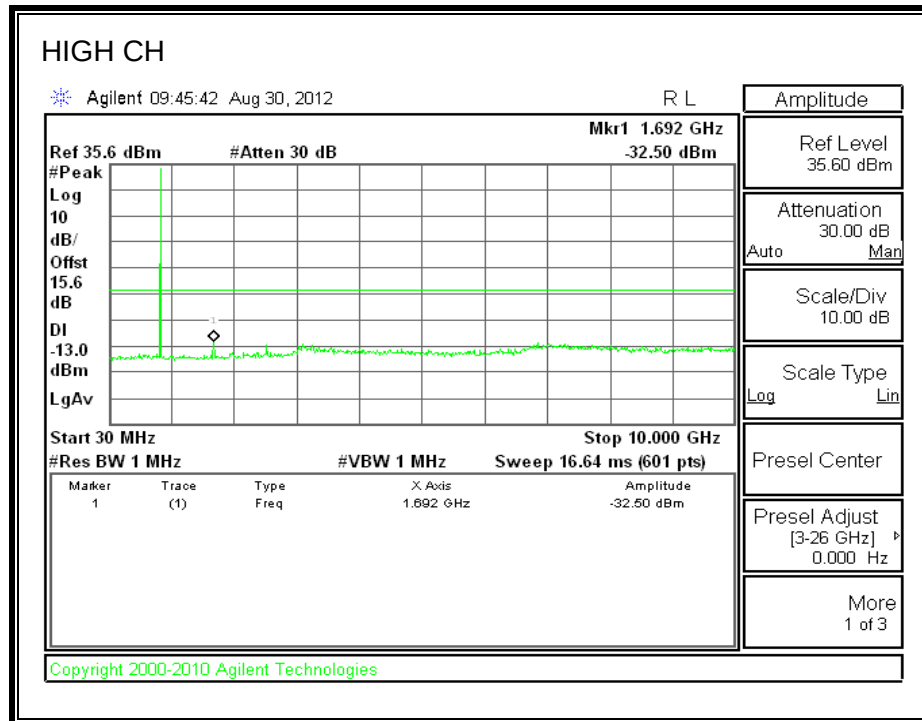
MODES TESTED

- GPRS and EGPRS
- WCDMA, REL 99 and HSDPA
- LTE BAND 2, 4, 5 and 17

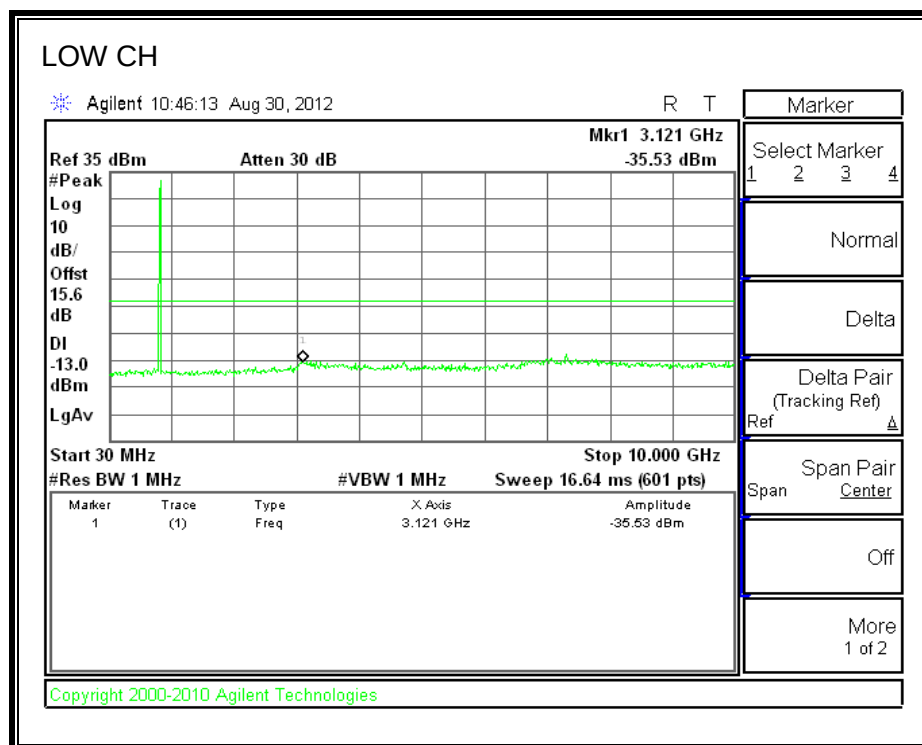
RESULTS

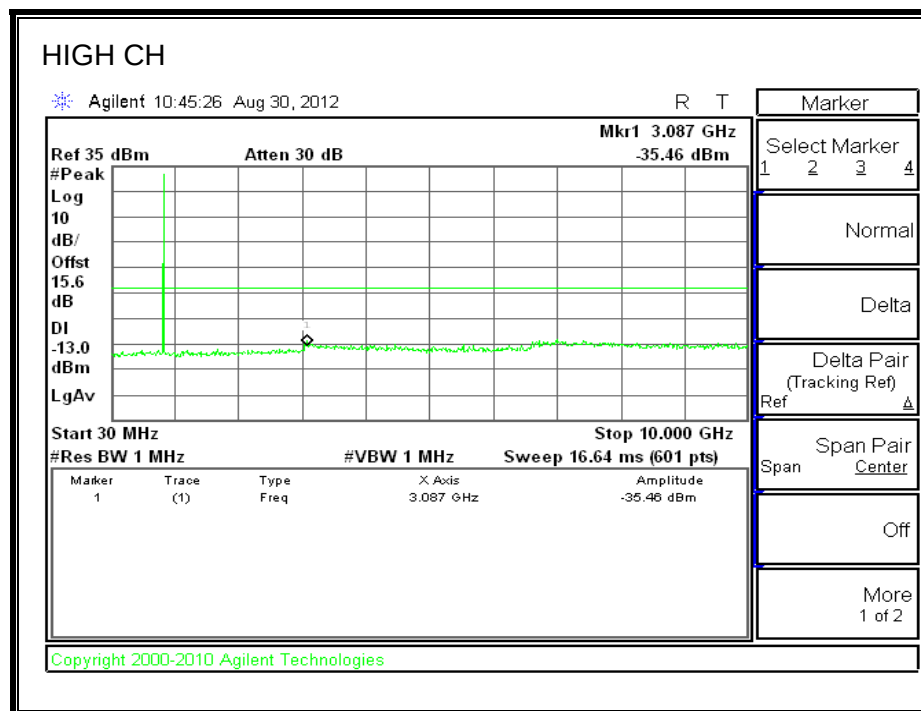
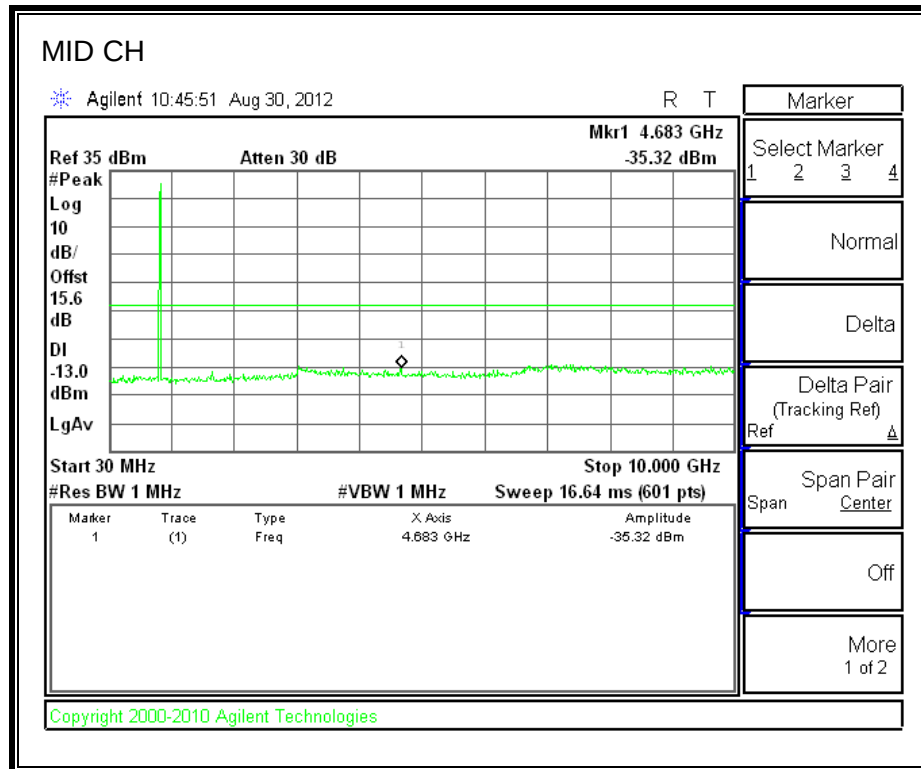
GPRS Mode (Cellular Band)



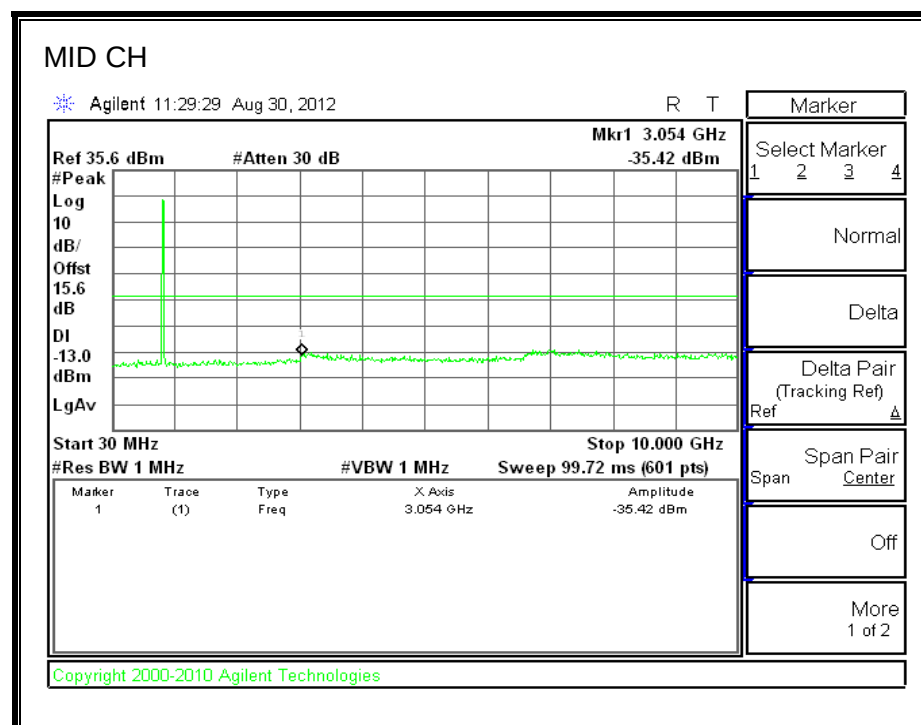
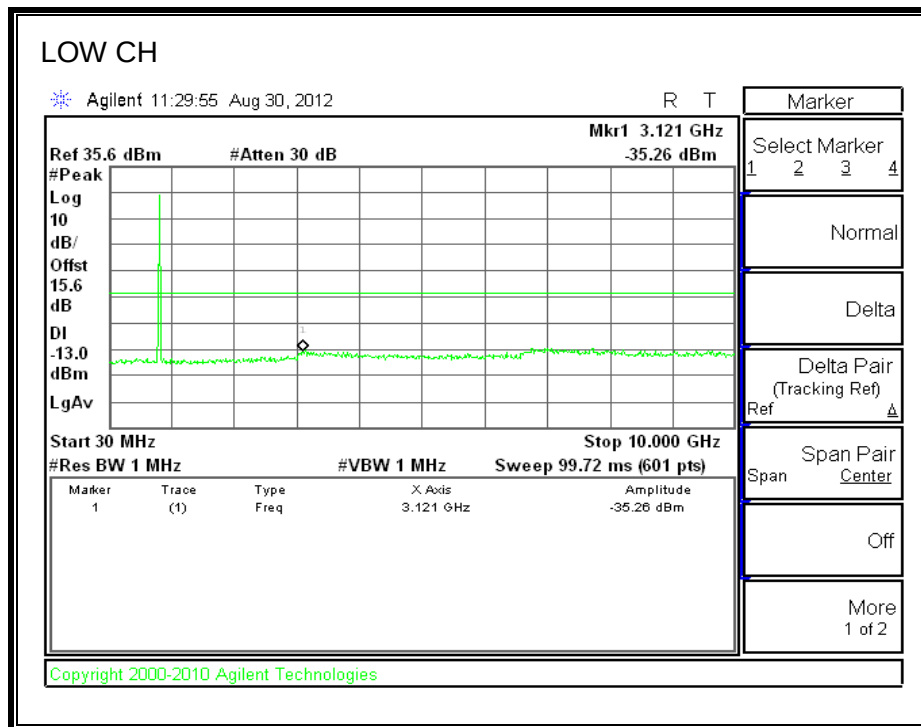


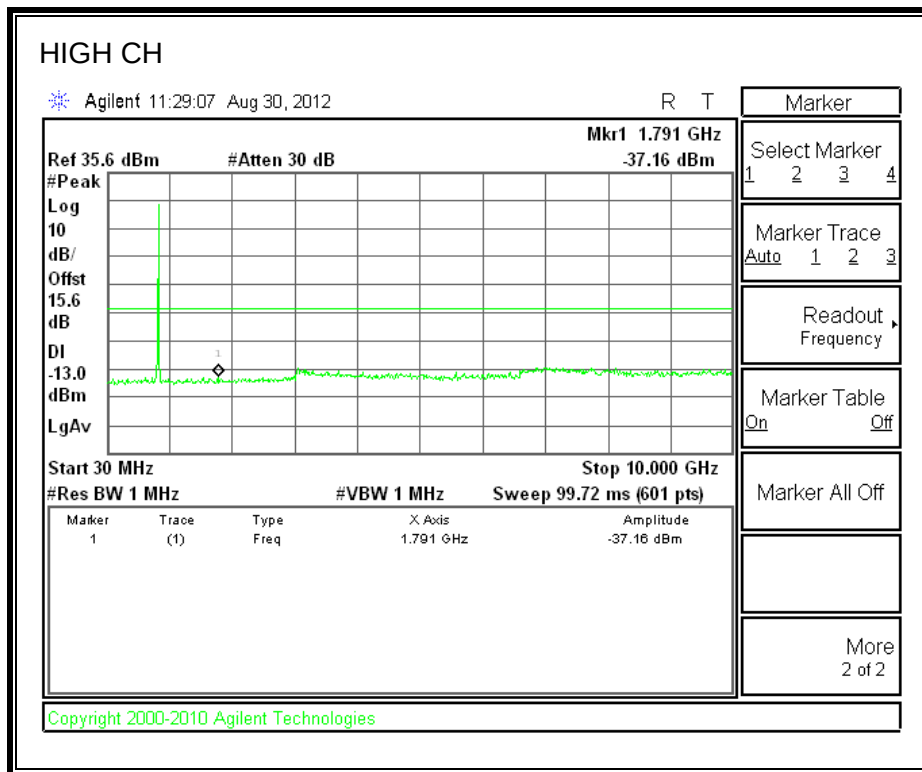
EGPRS Mode (Cellular Band)



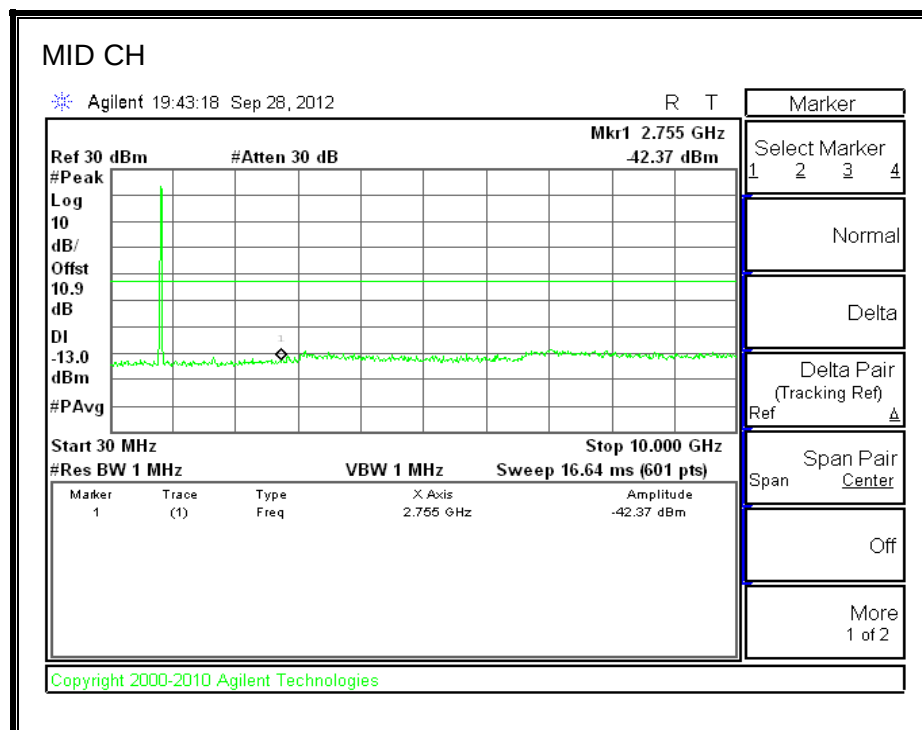
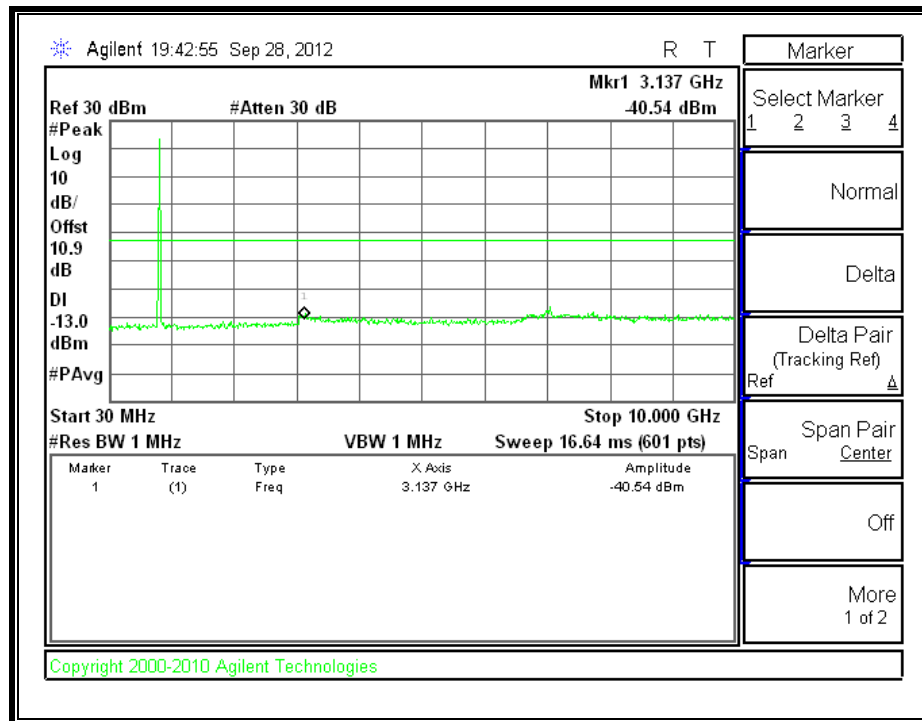


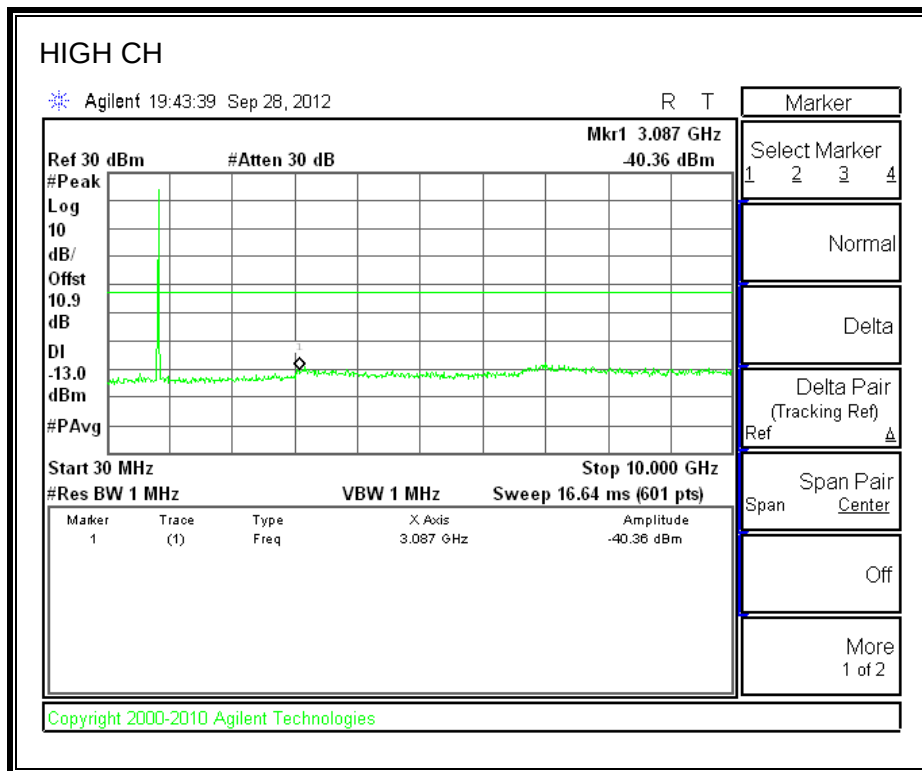
WCDMA CELL BAND, REL 99



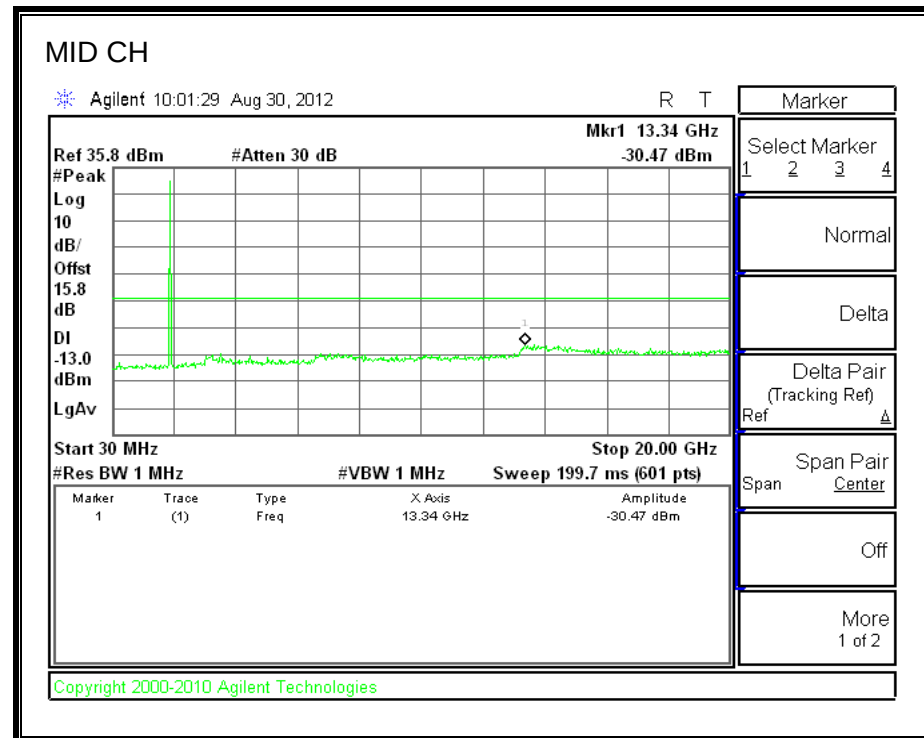
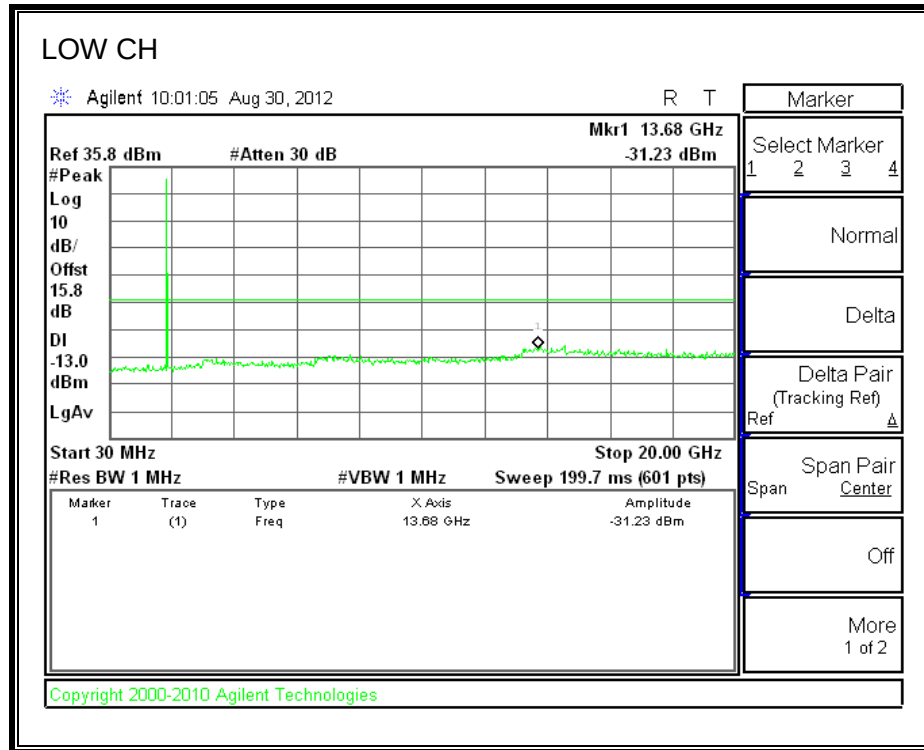


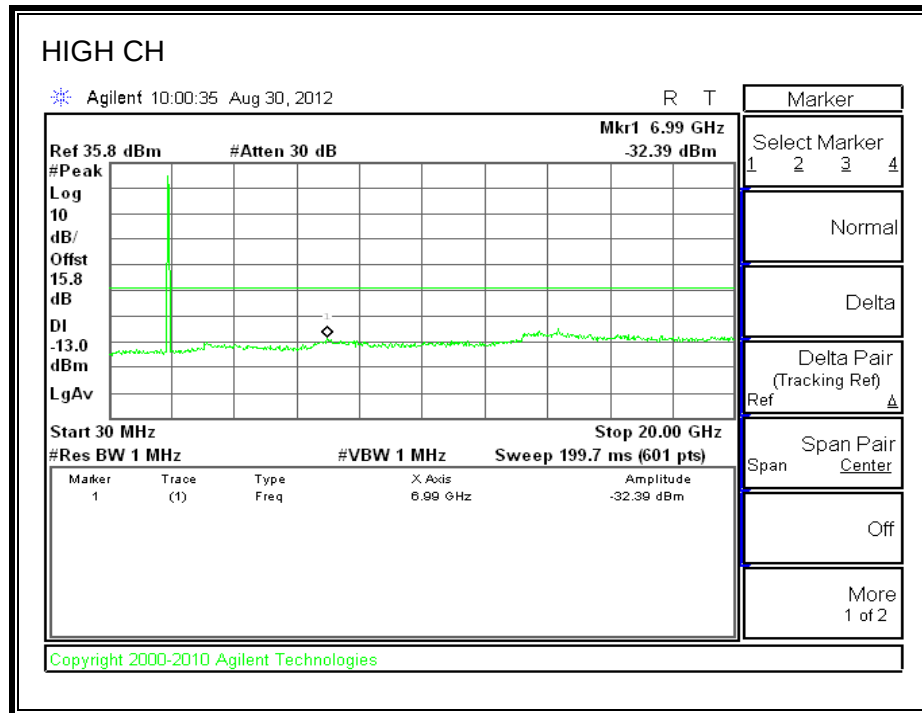
WCDMA CELL BAND, HSDPA,



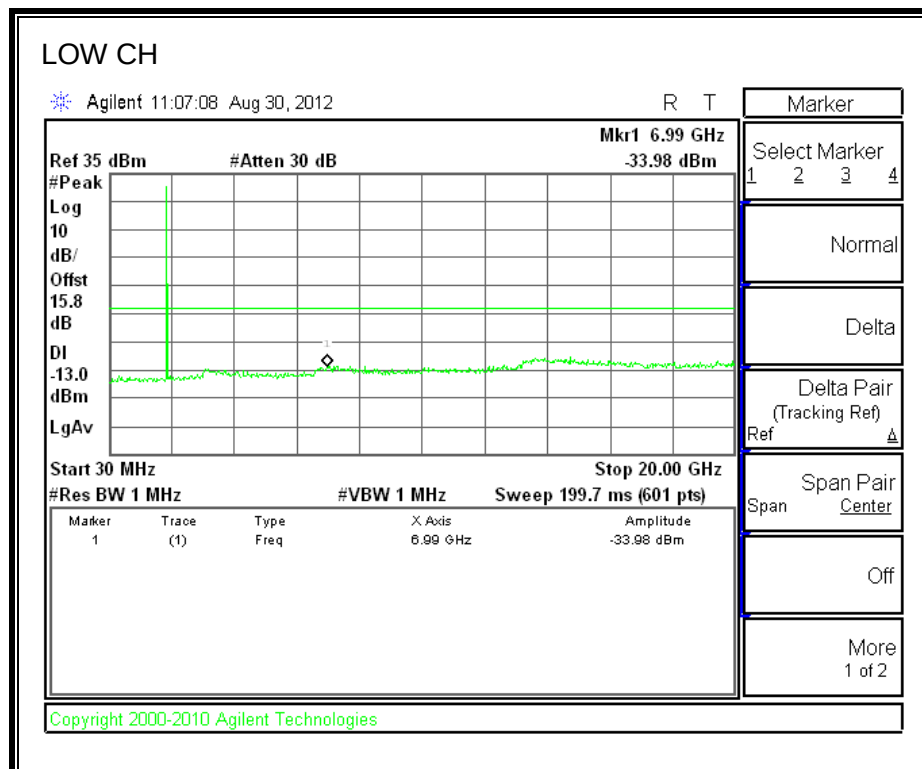


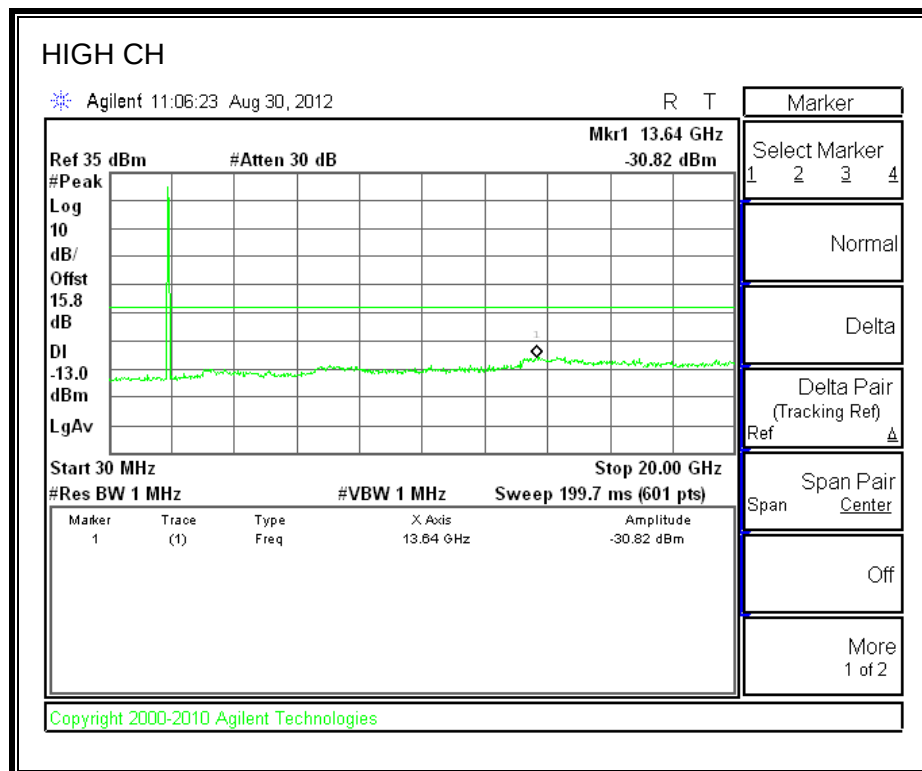
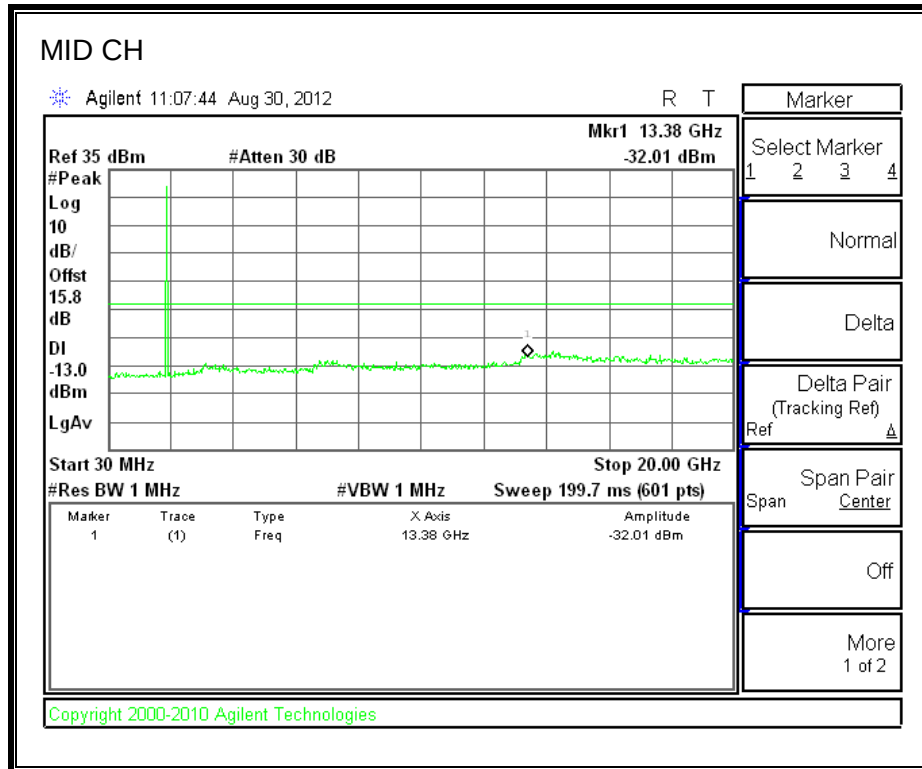
GPRS PCS BAND



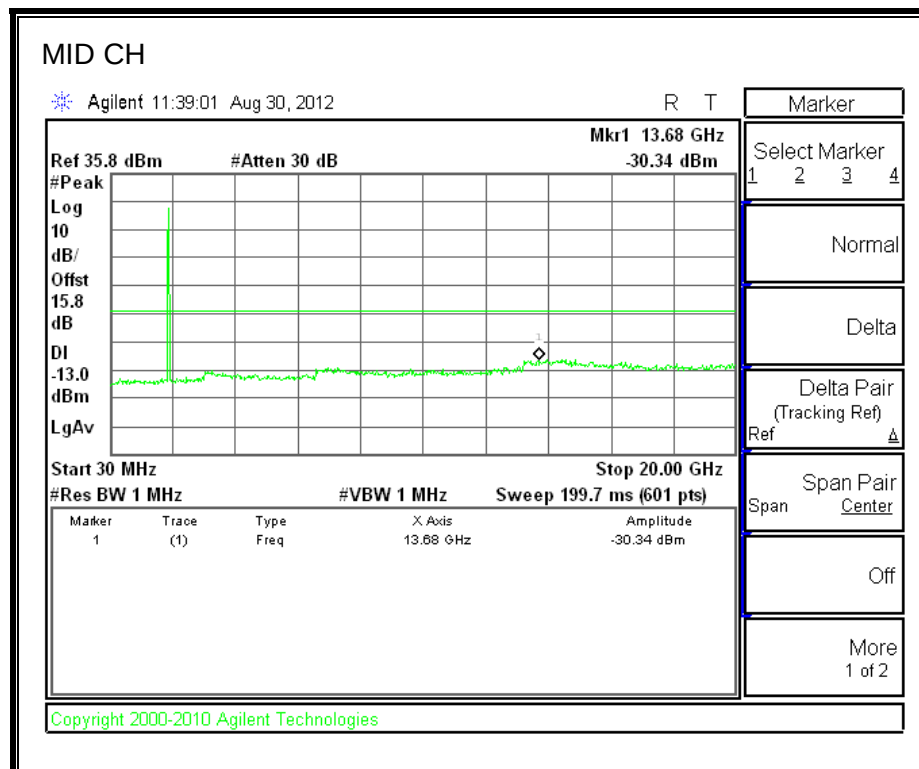
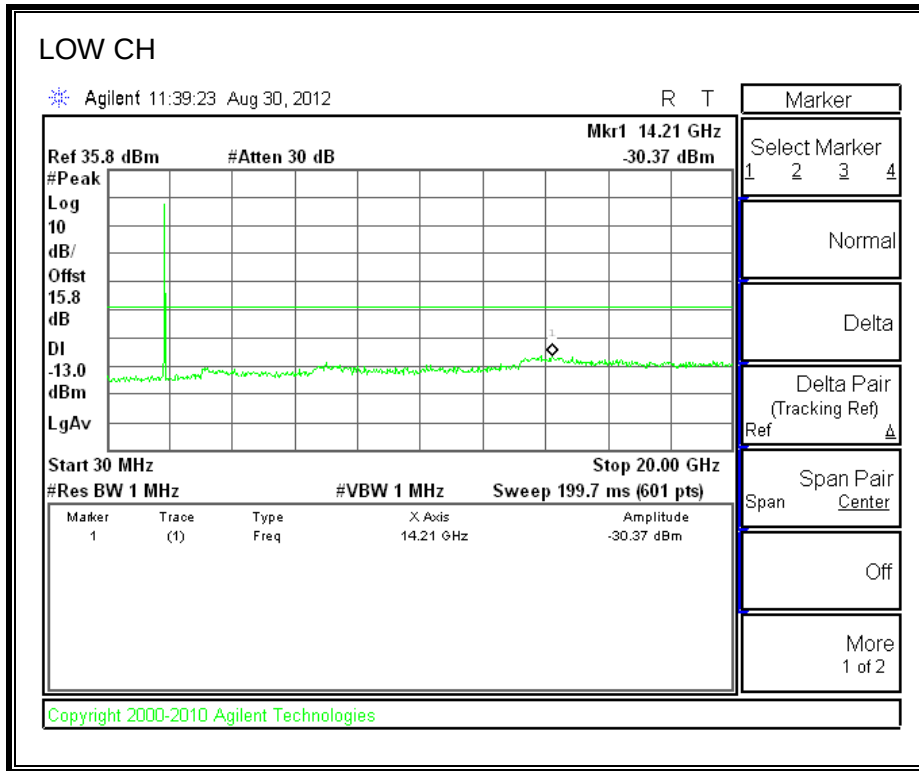


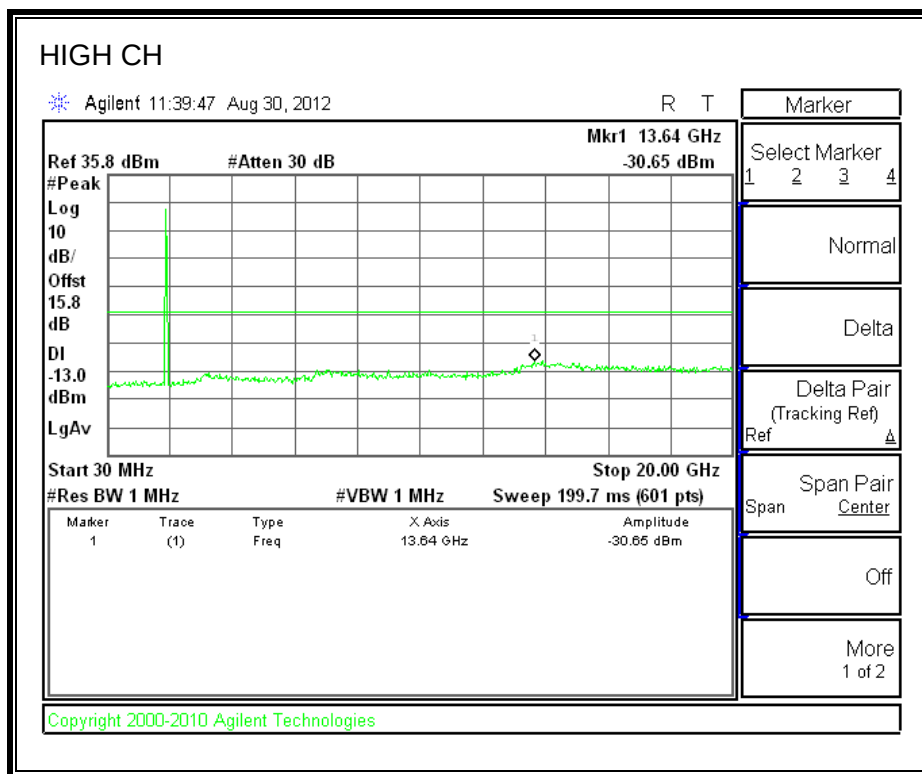
EGPRS PCS Band



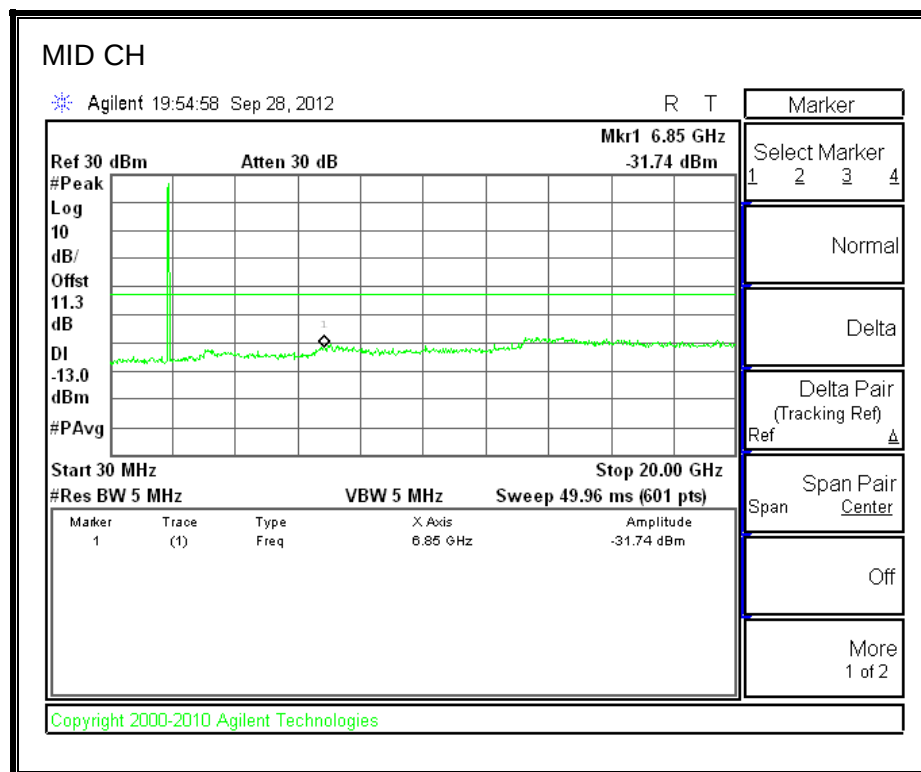
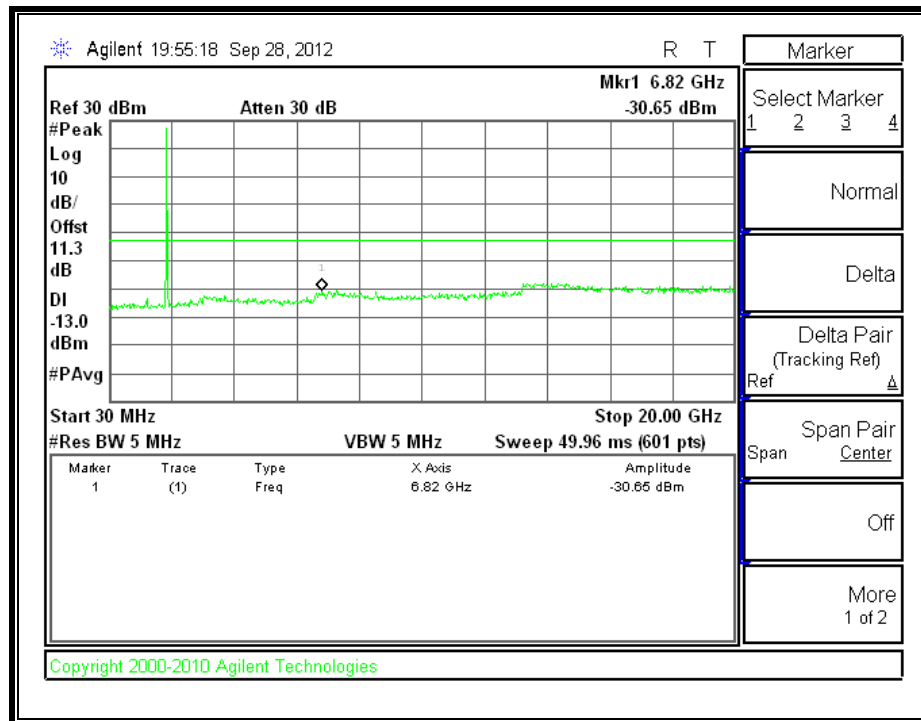


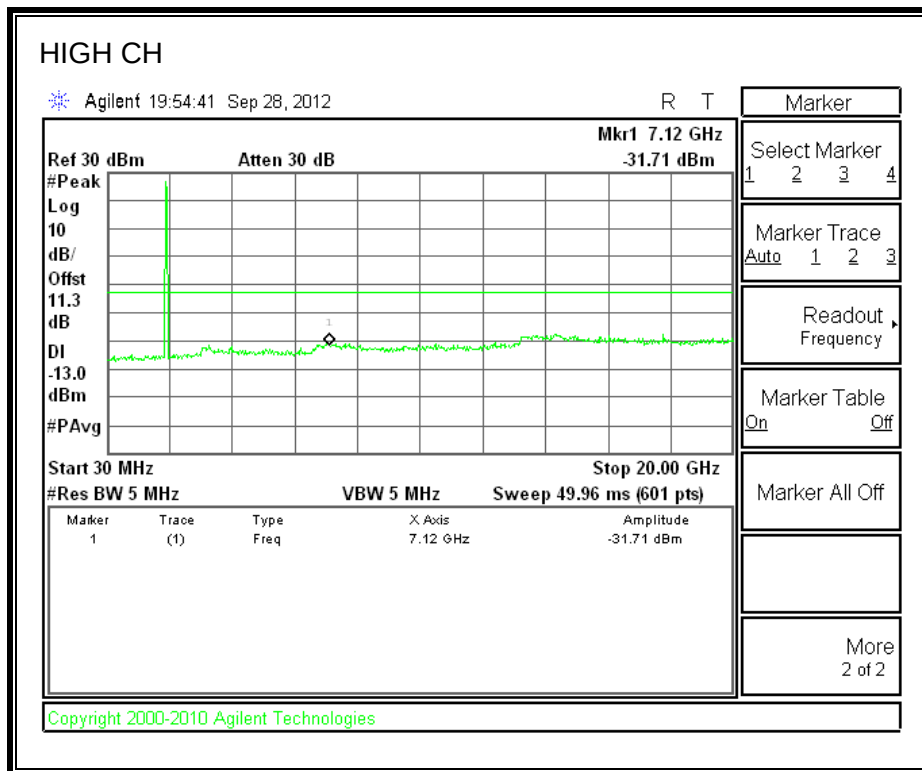
WCDMA PCS BAND, REL 99





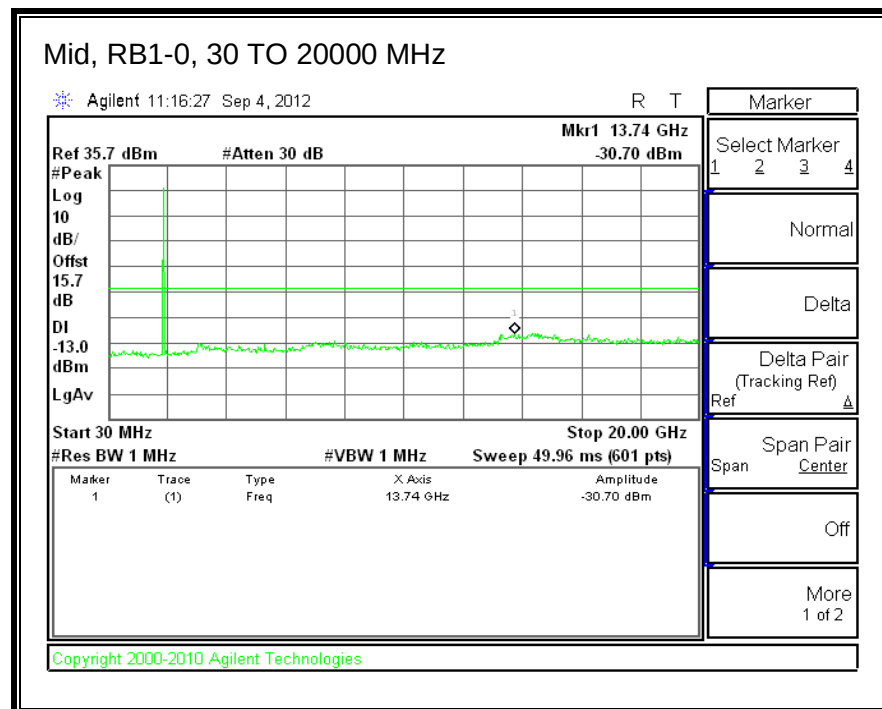
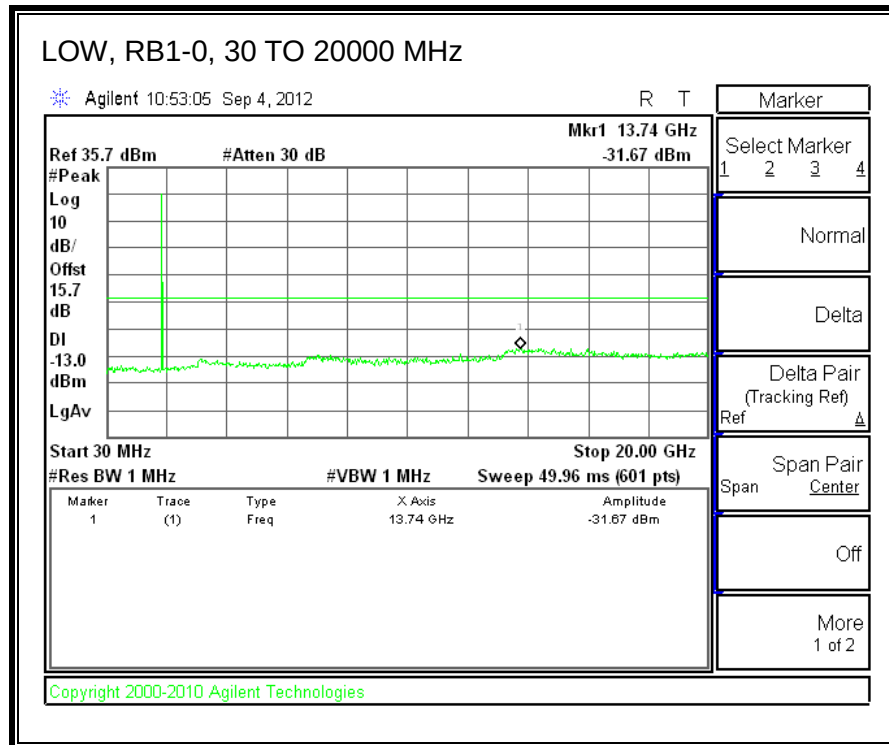
WCDMA PCS BAND, HSDPA,

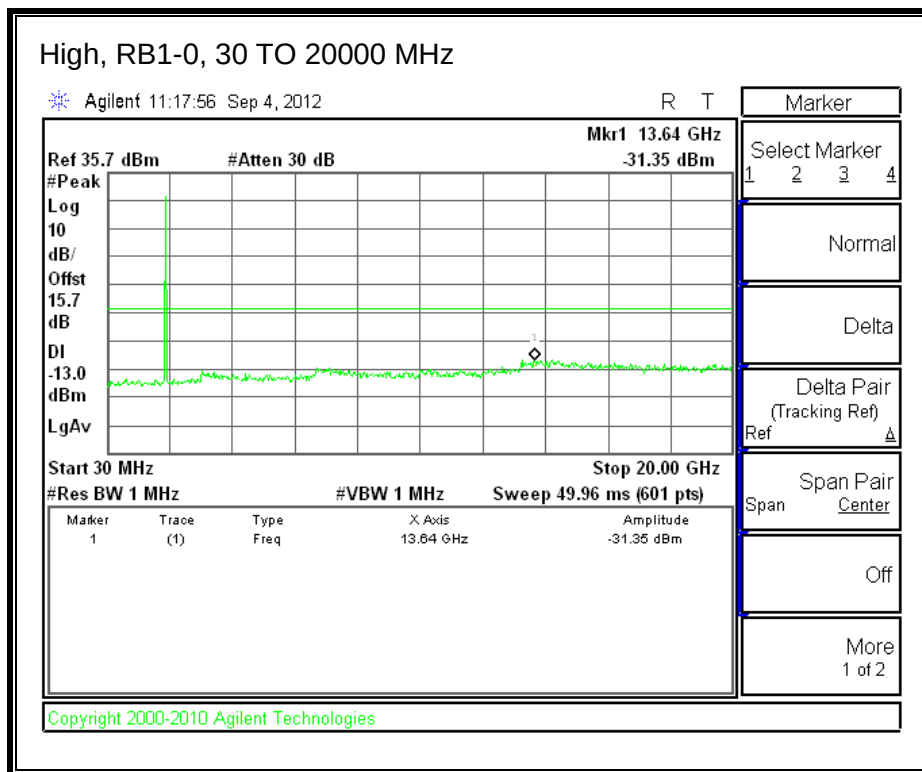




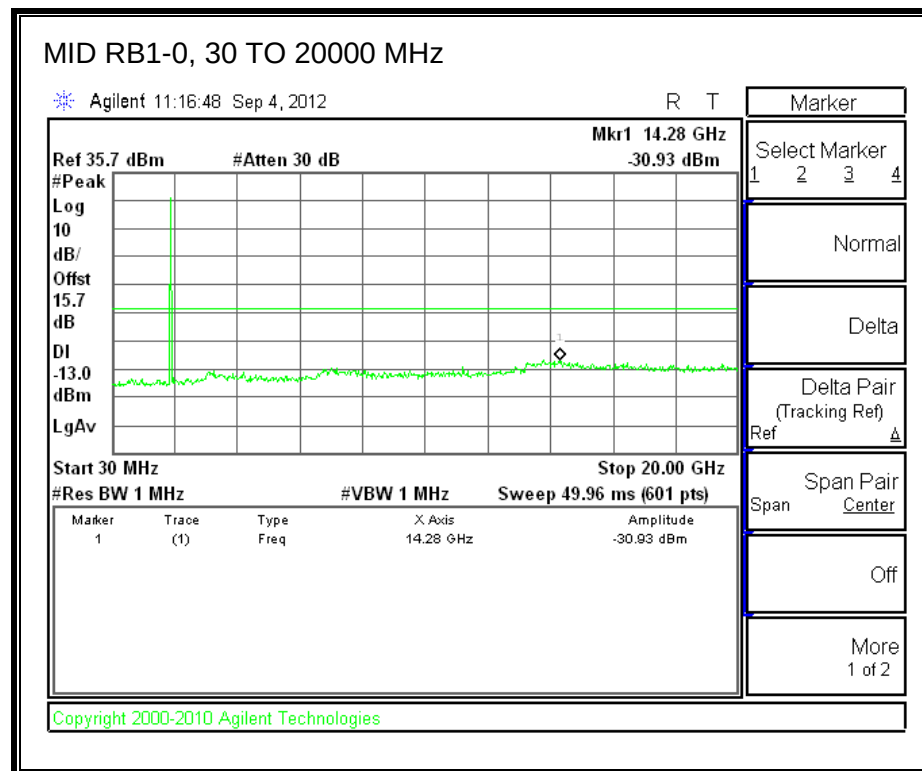
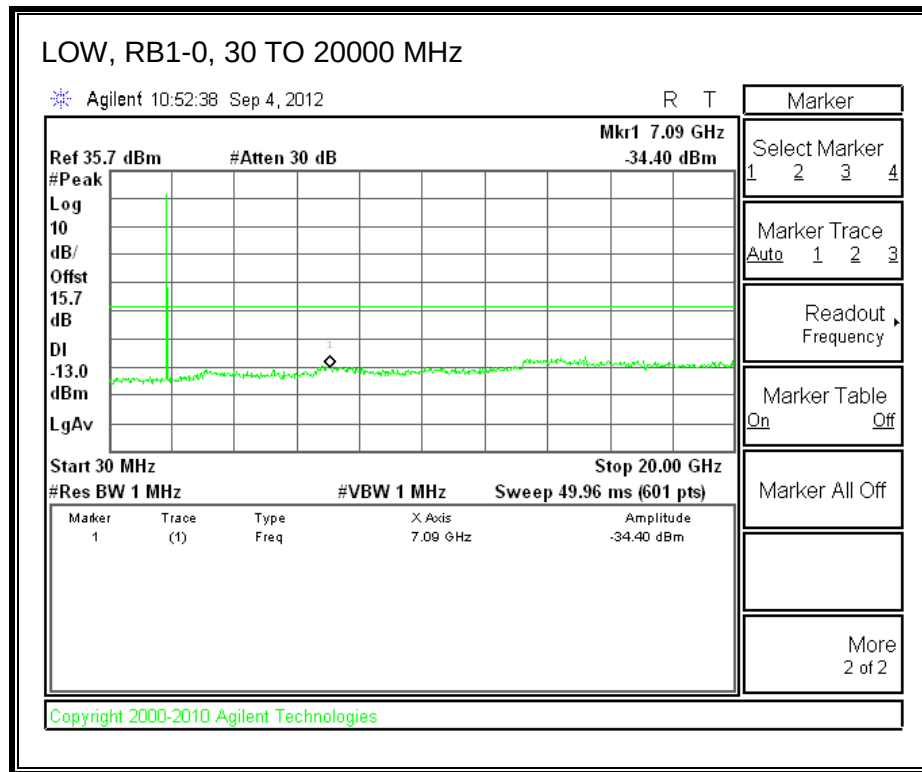
8.3.1. LTE BAND 2

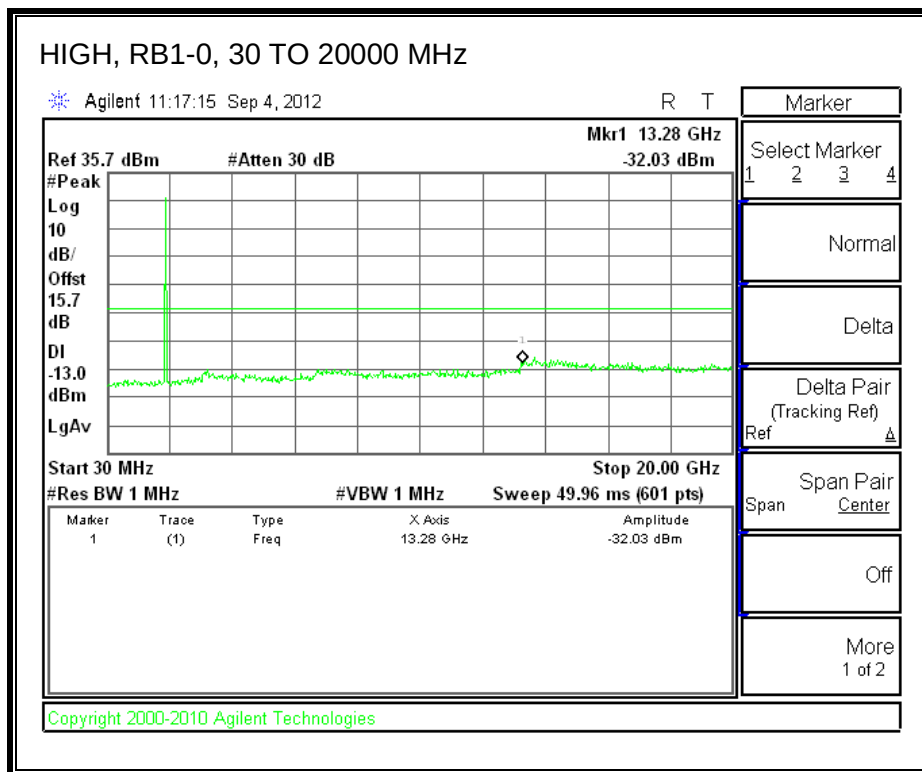
LTE QPSK, 1.4 MHz BANDWIDTH



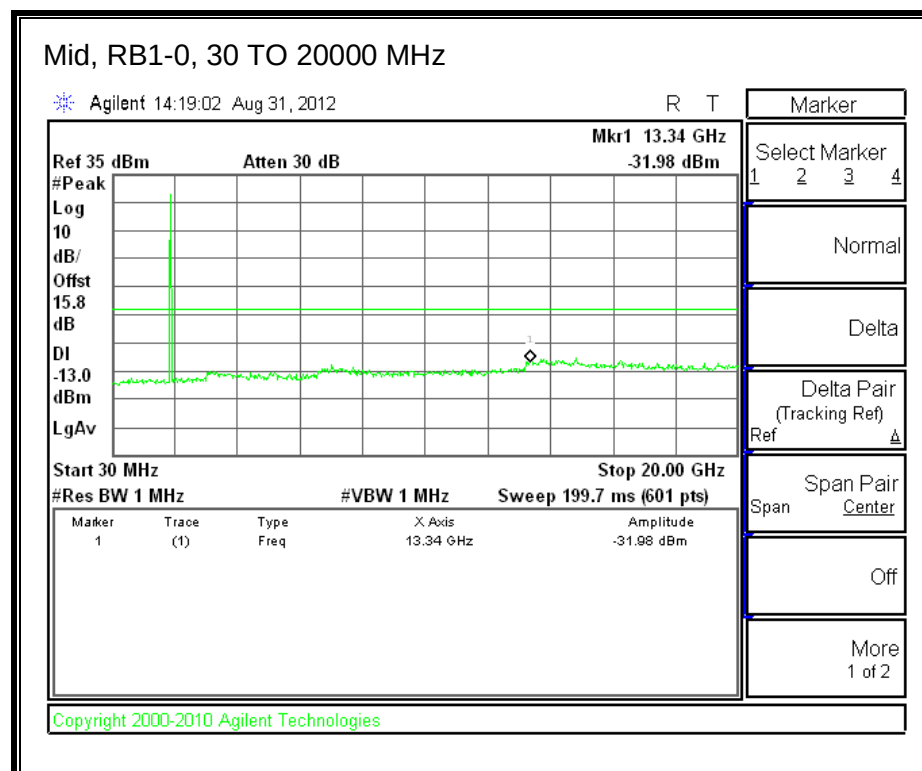
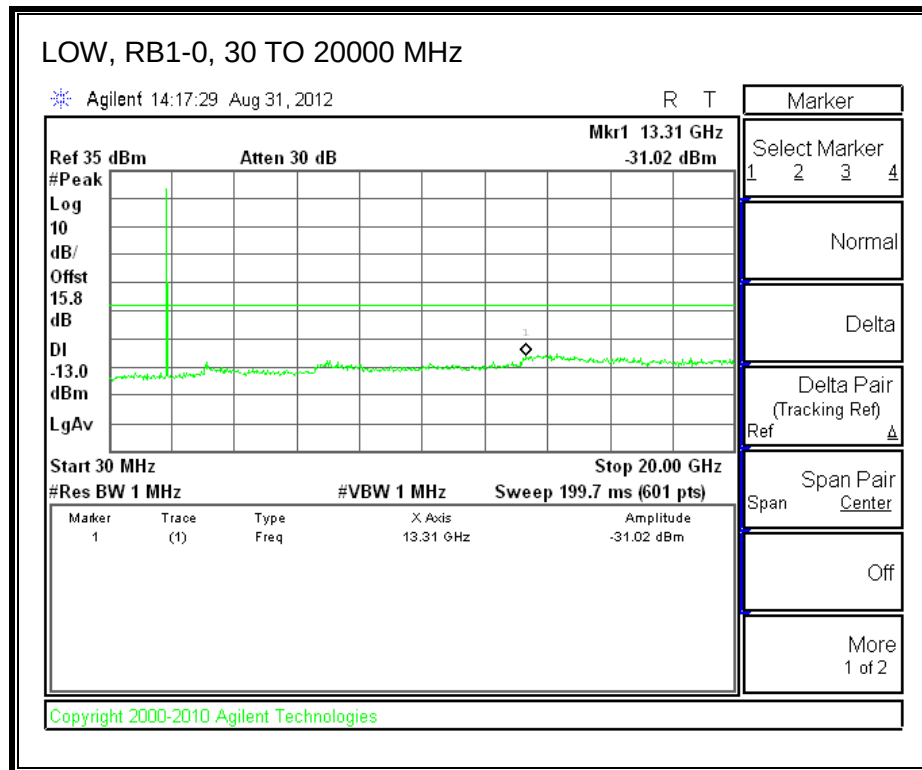


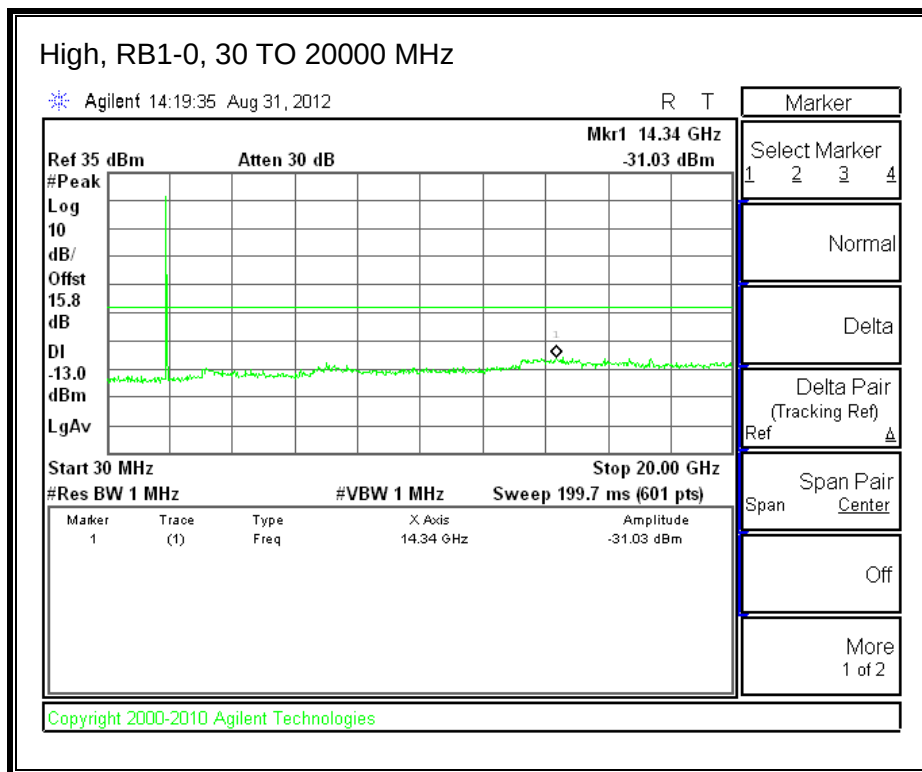
LTE 16QAM



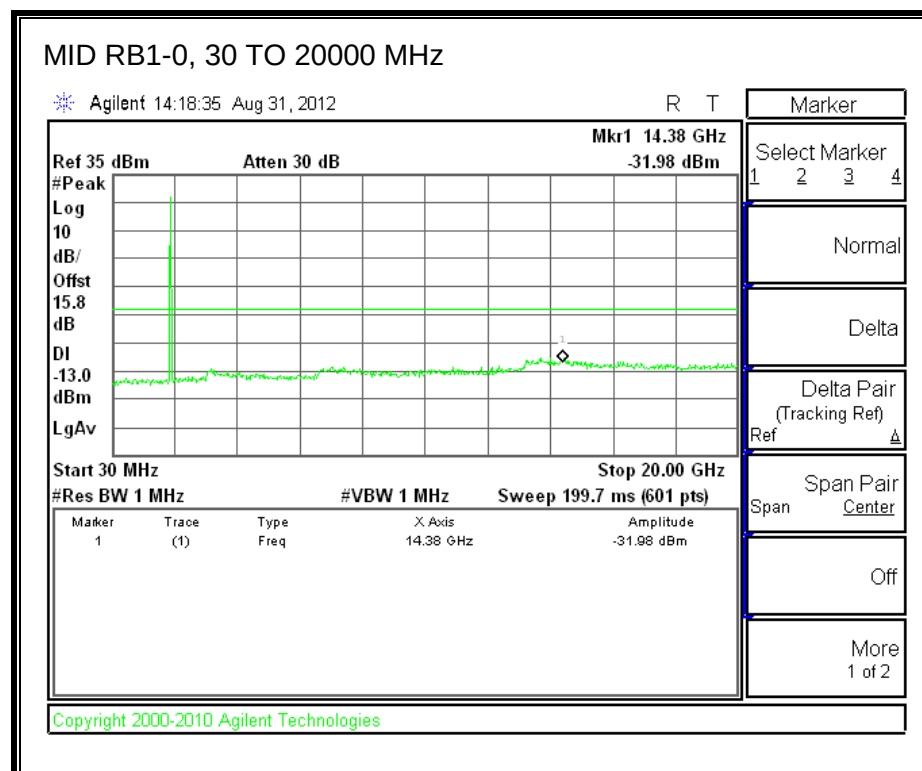
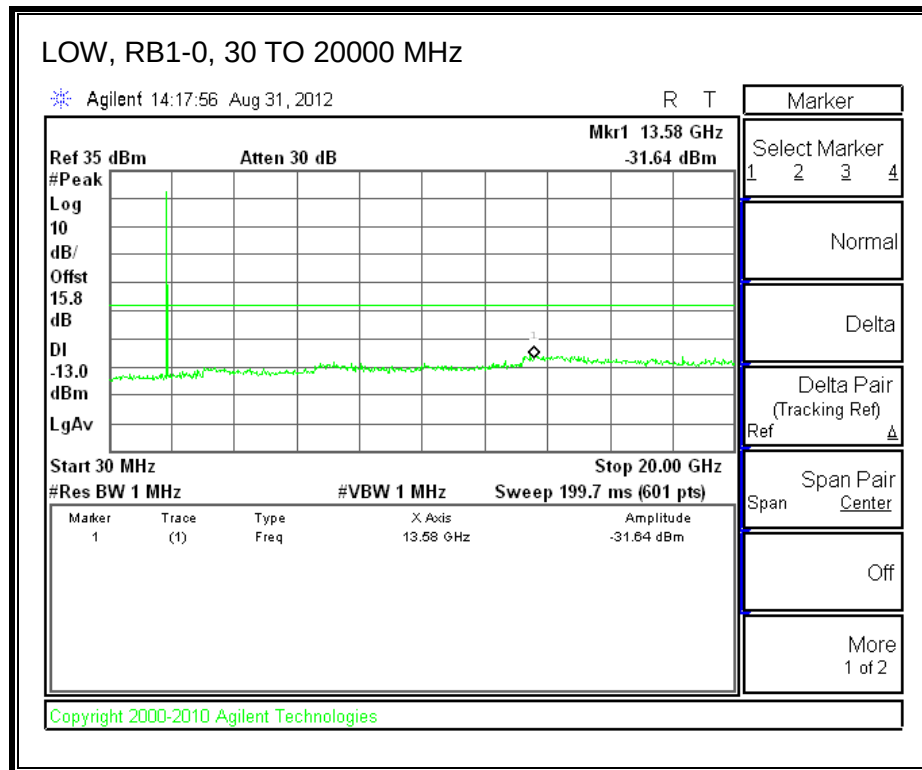


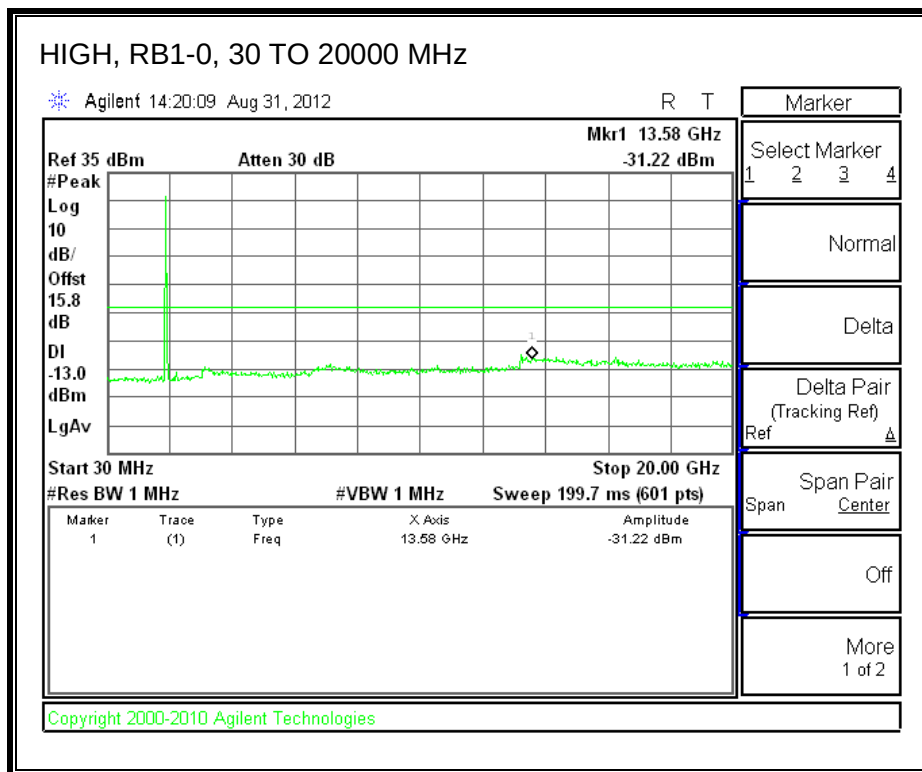
LTE QPSK, 3 MHz BANDWIDTH





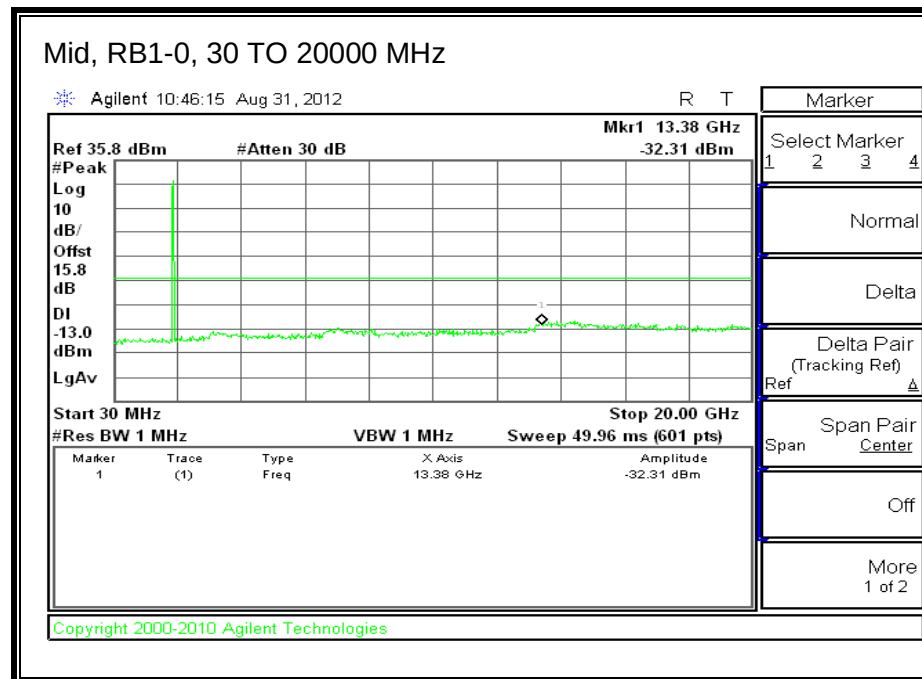
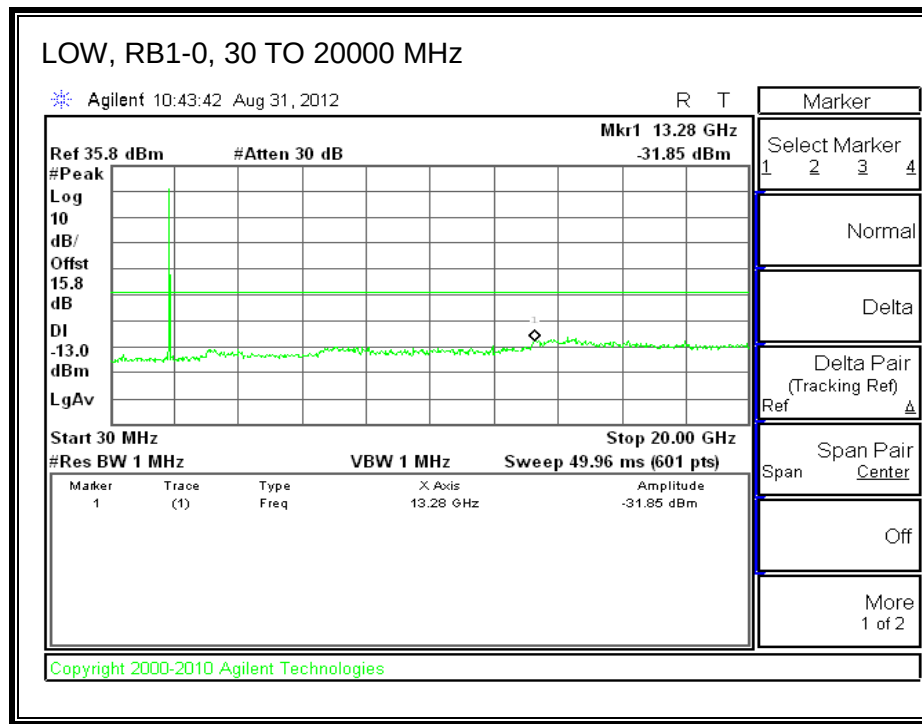
LTE 16QAM

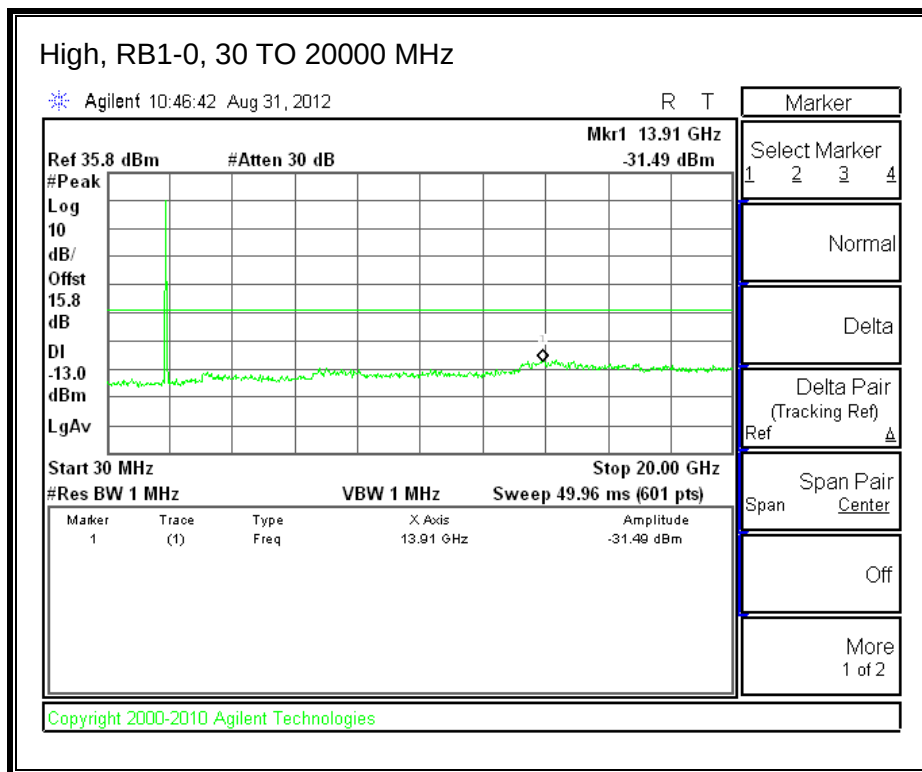




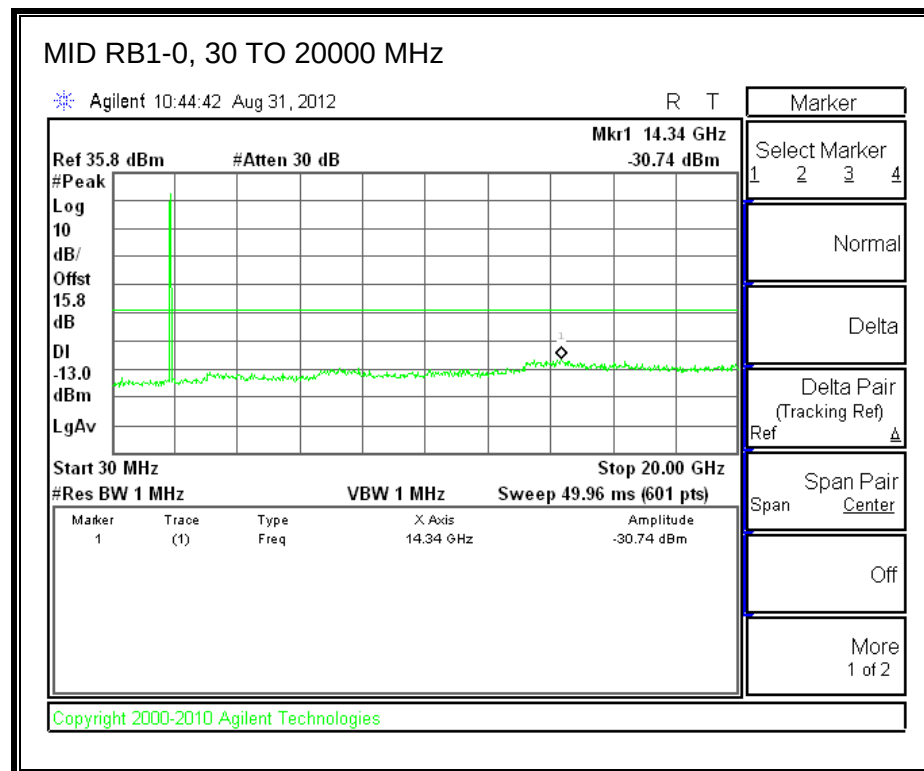
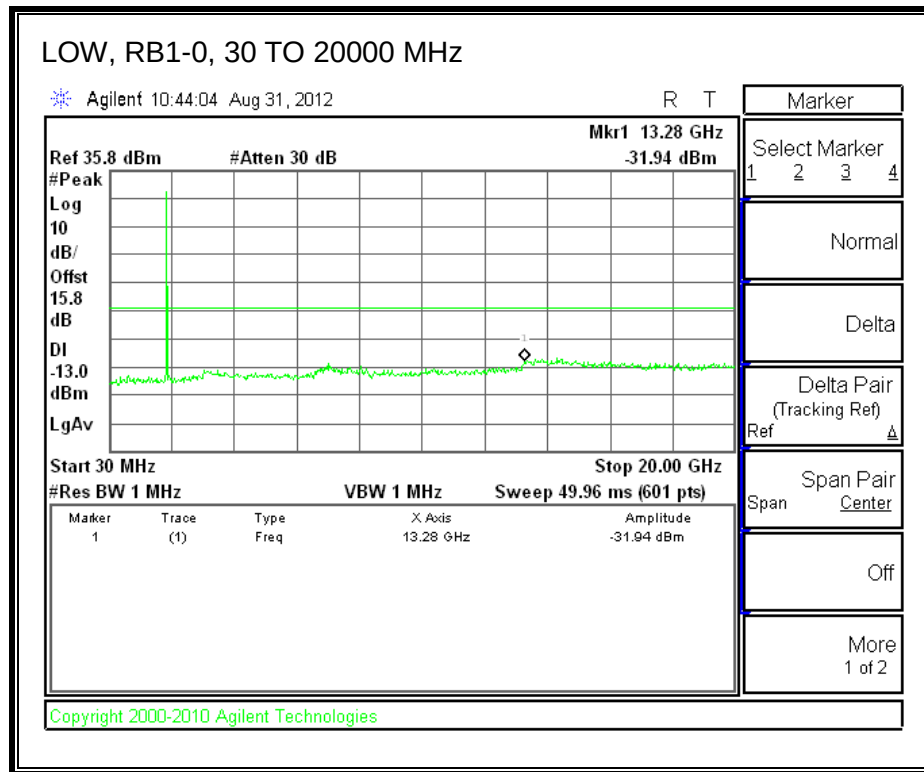
Band 2 (5 MHz BANDWIDTH)

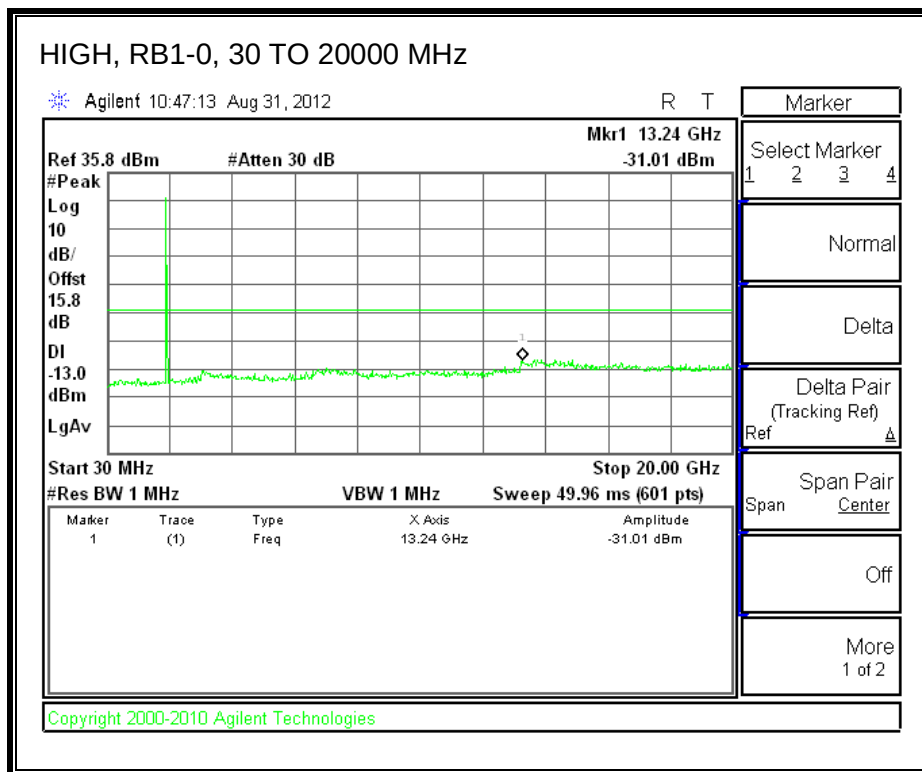
LTE QPSK





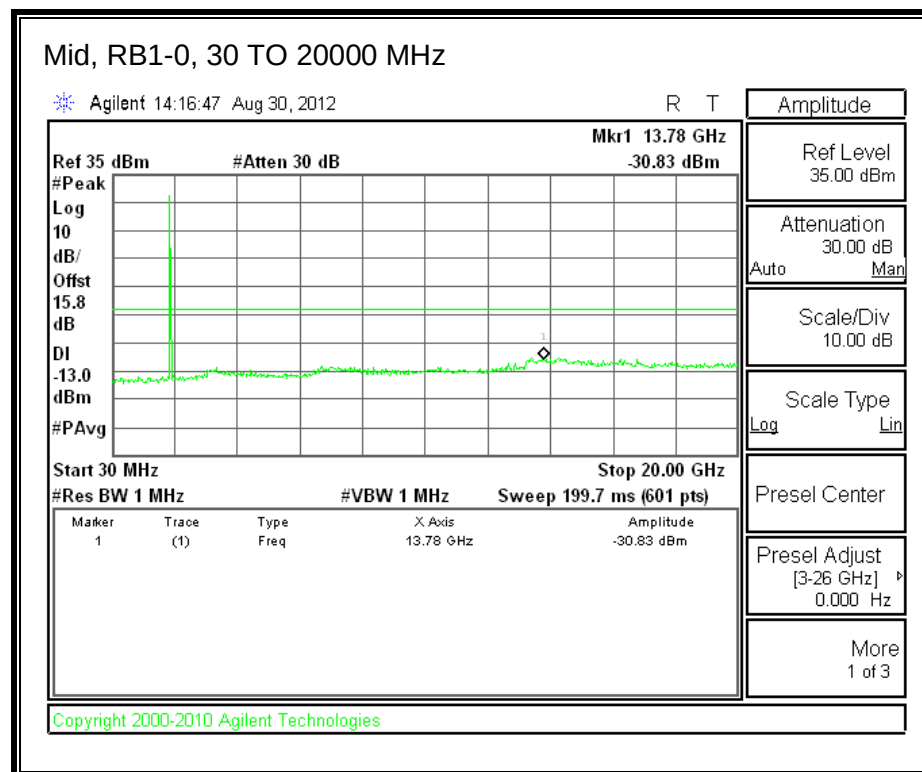
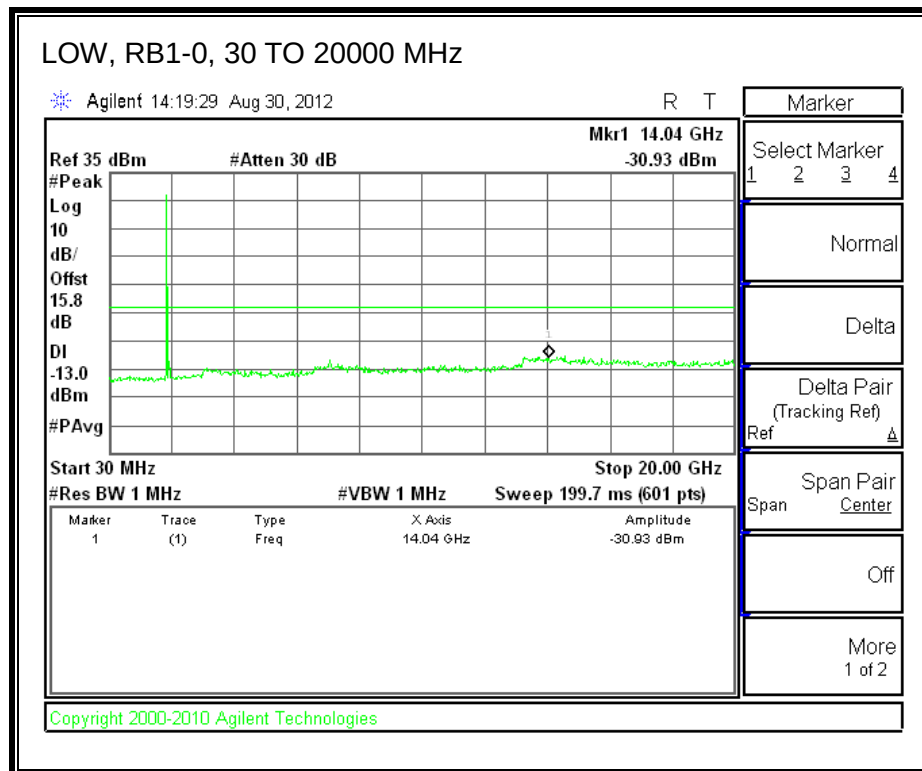
LTE 16QAM

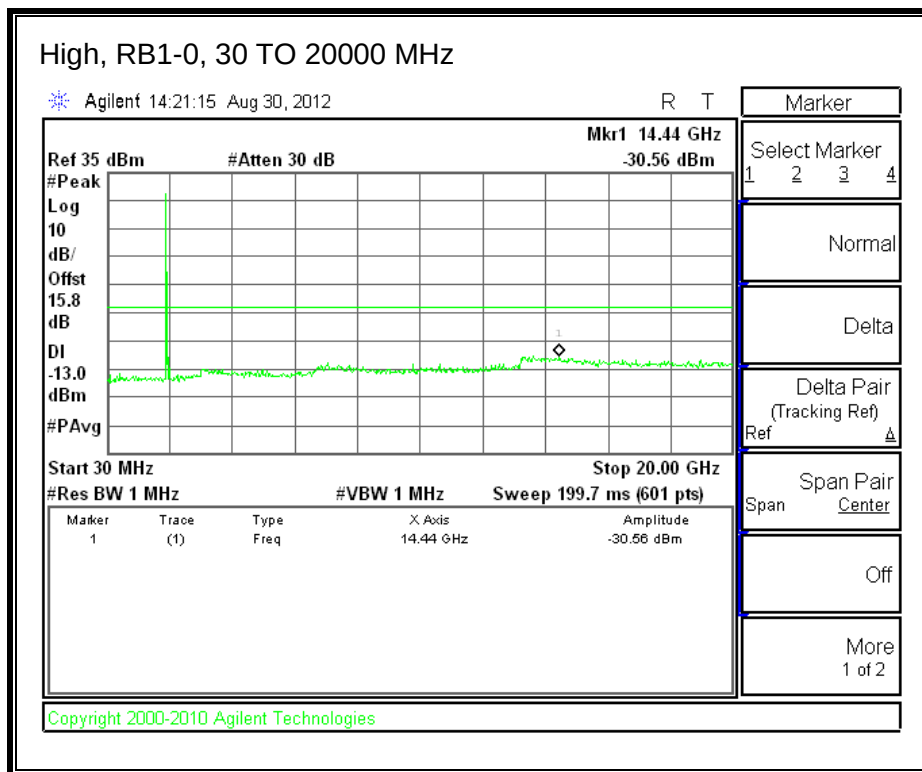




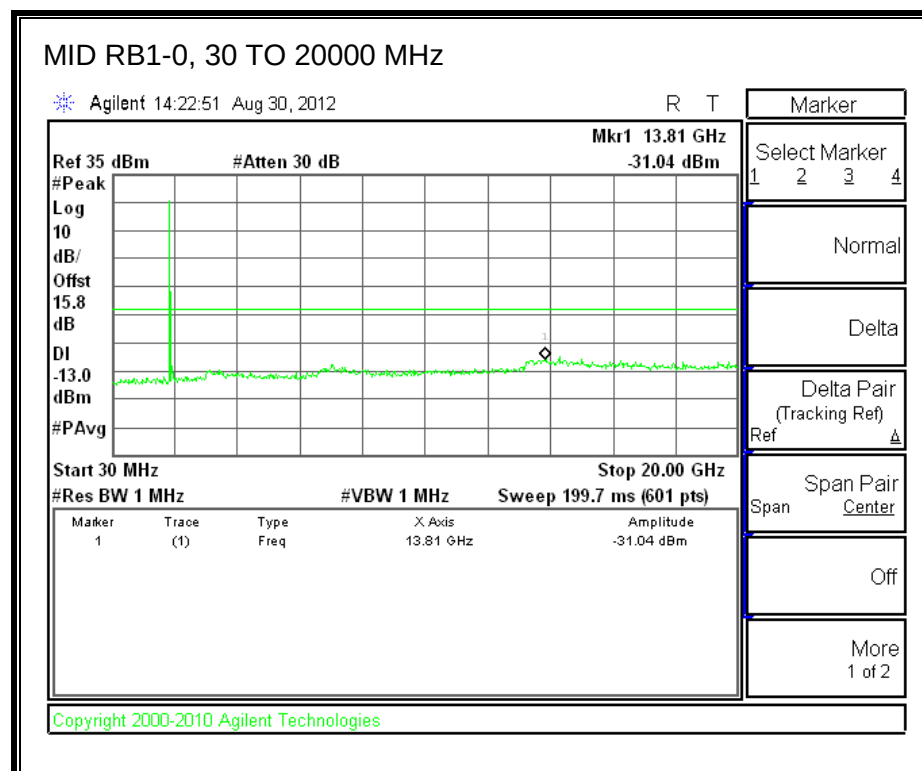
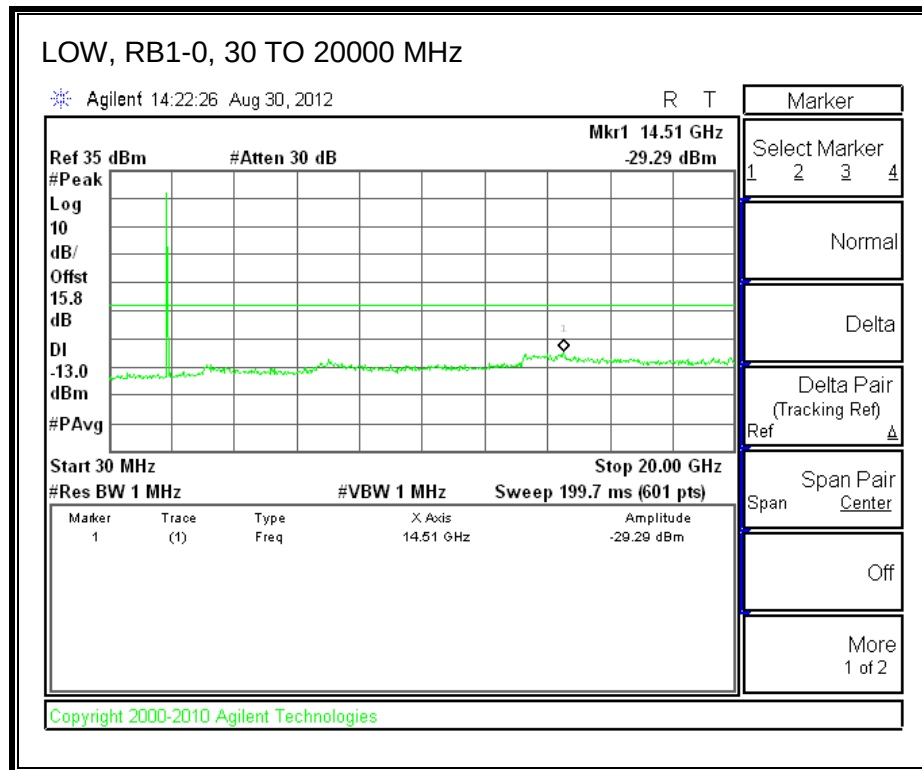
Band 2 (10 MHz BANDWIDTH)

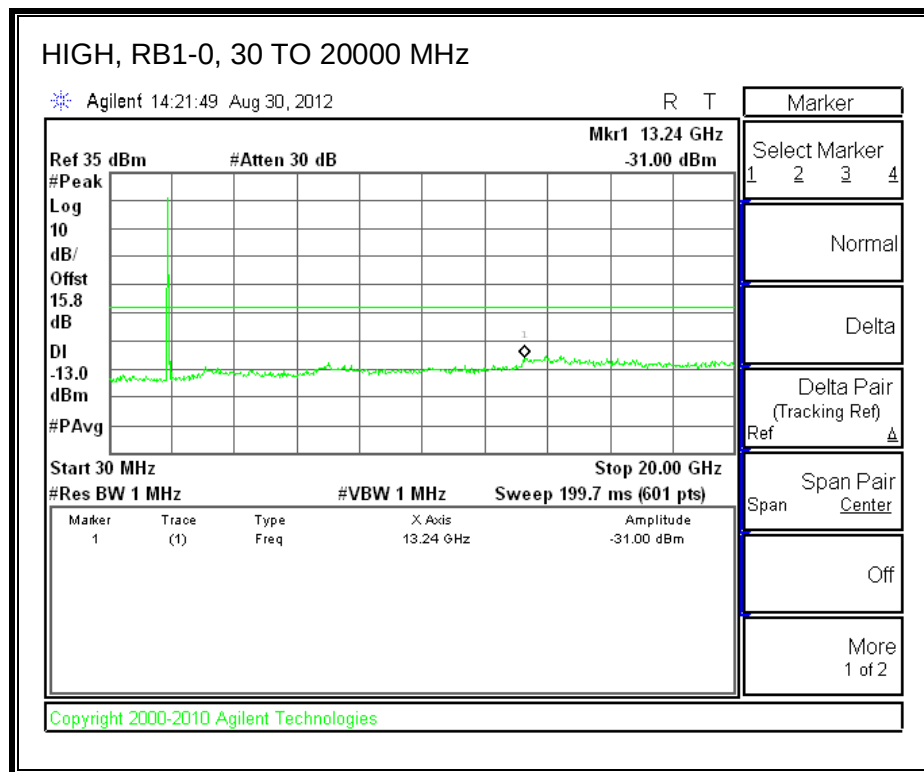
LTE QPSK





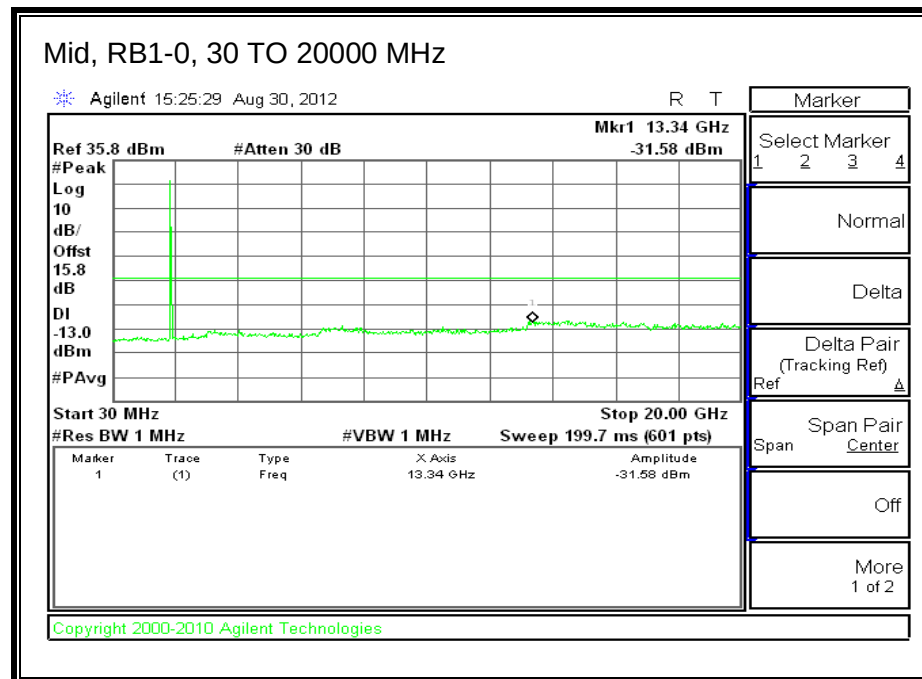
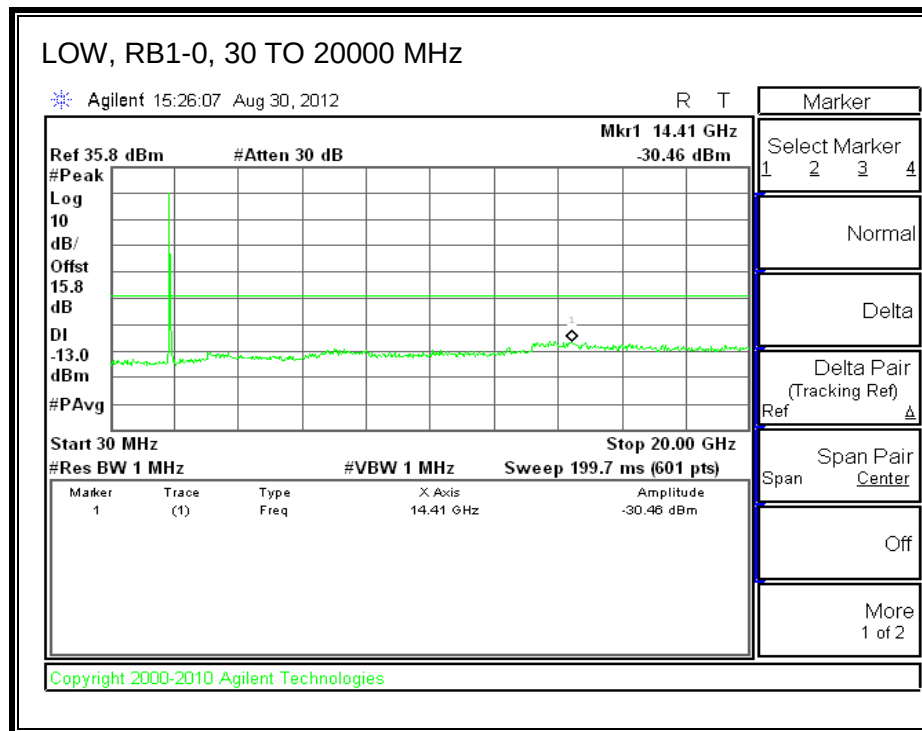
LTE 16QAM

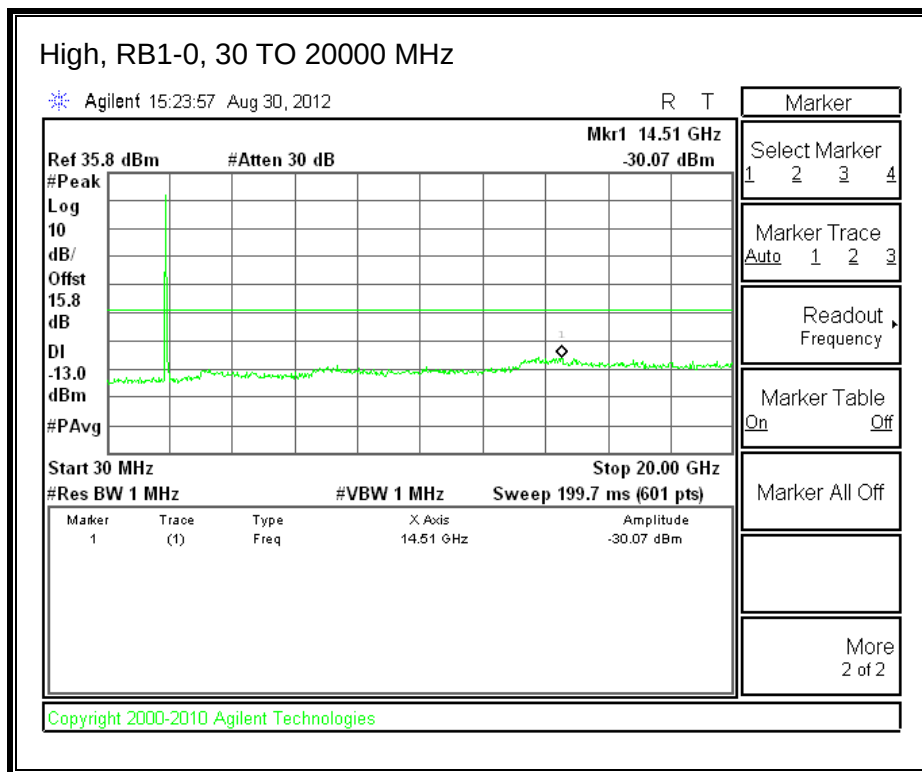




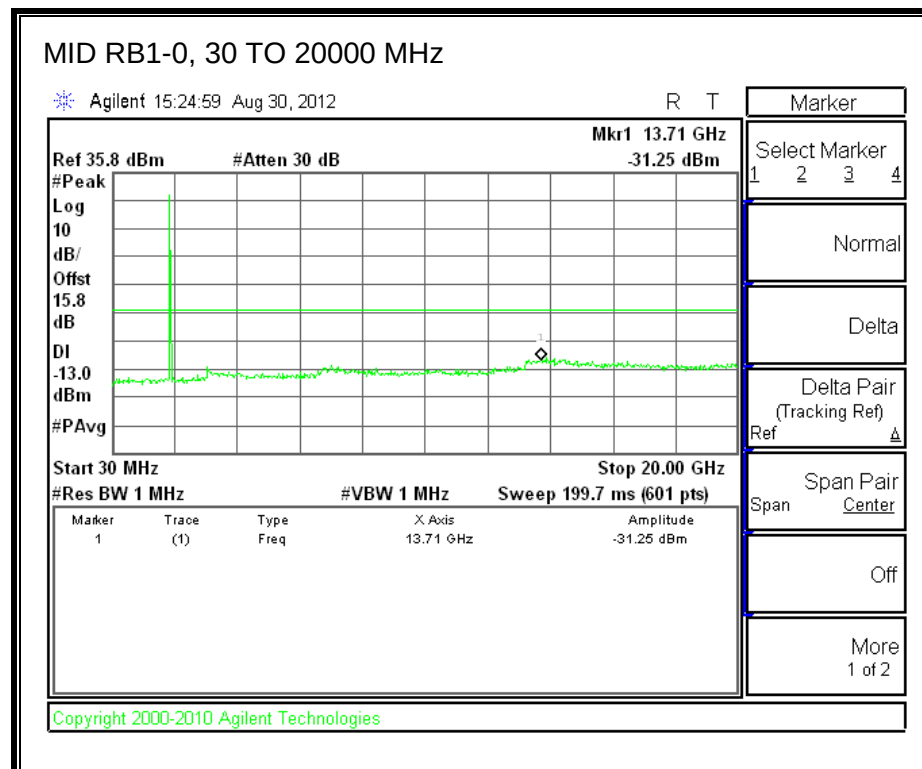
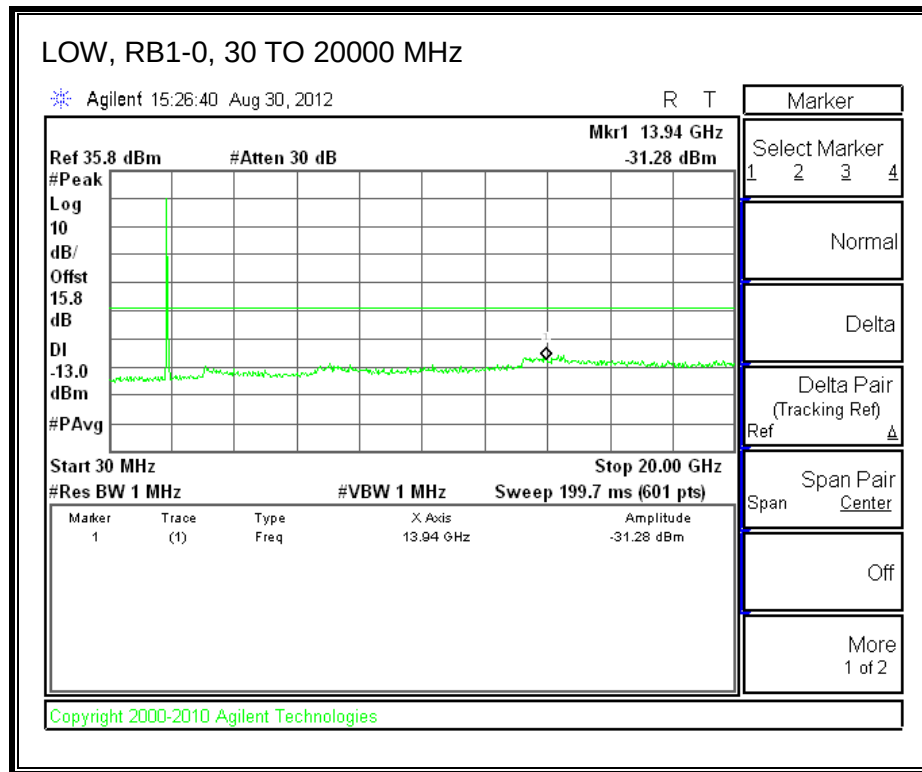
Band 2 (15 MHz BANDWIDTH)

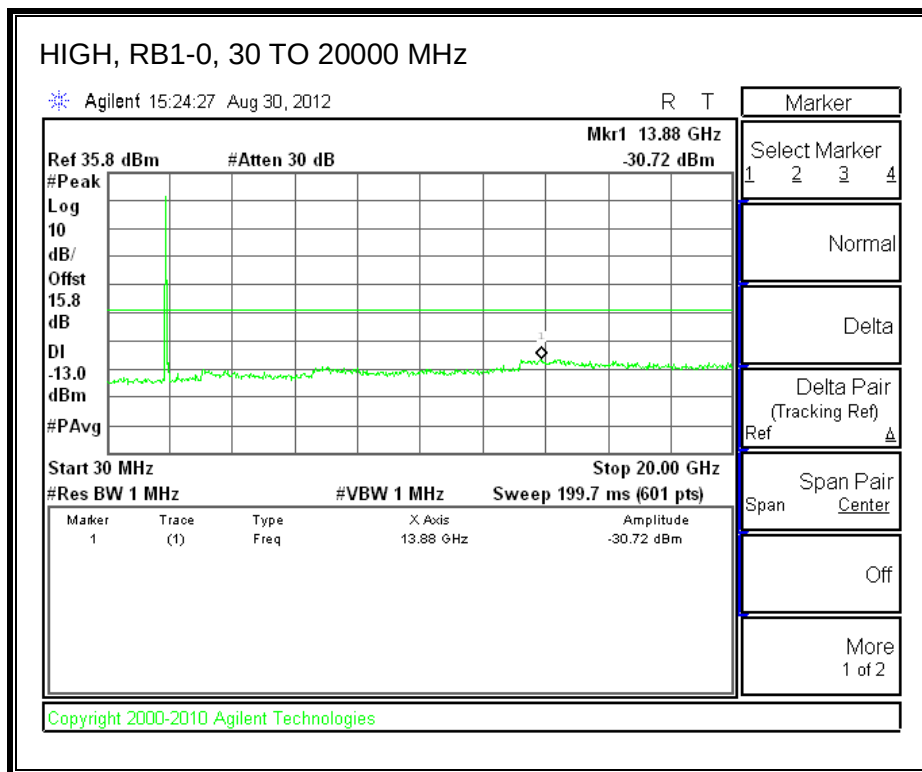
LTE QPSK





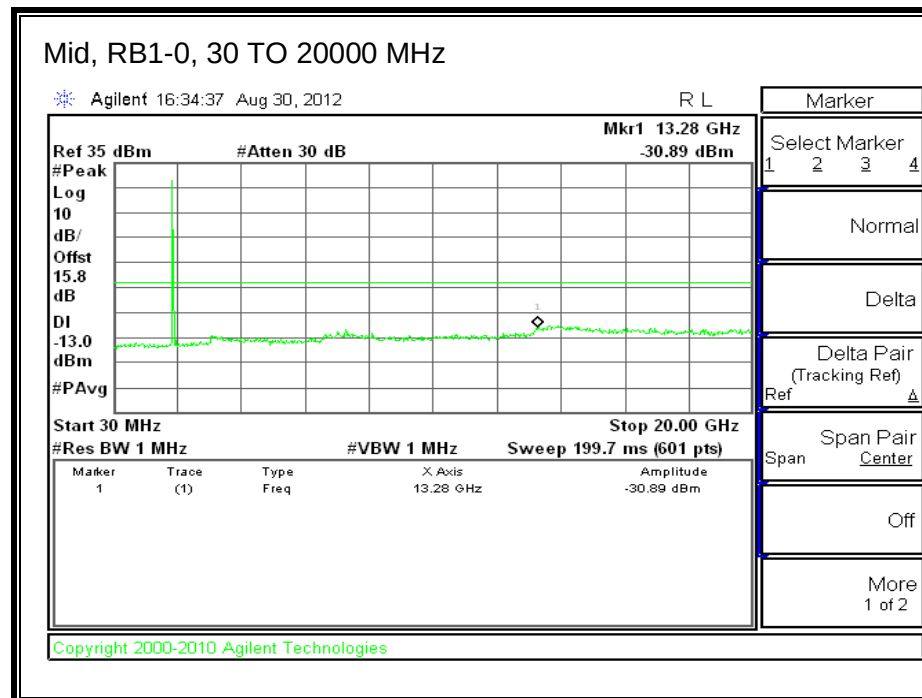
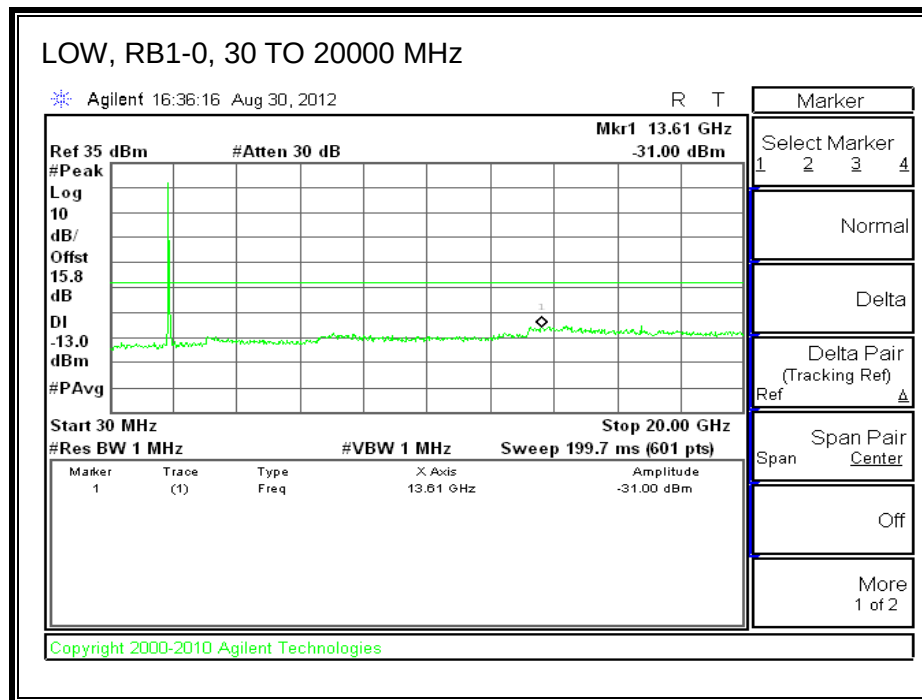
LTE 16QAM

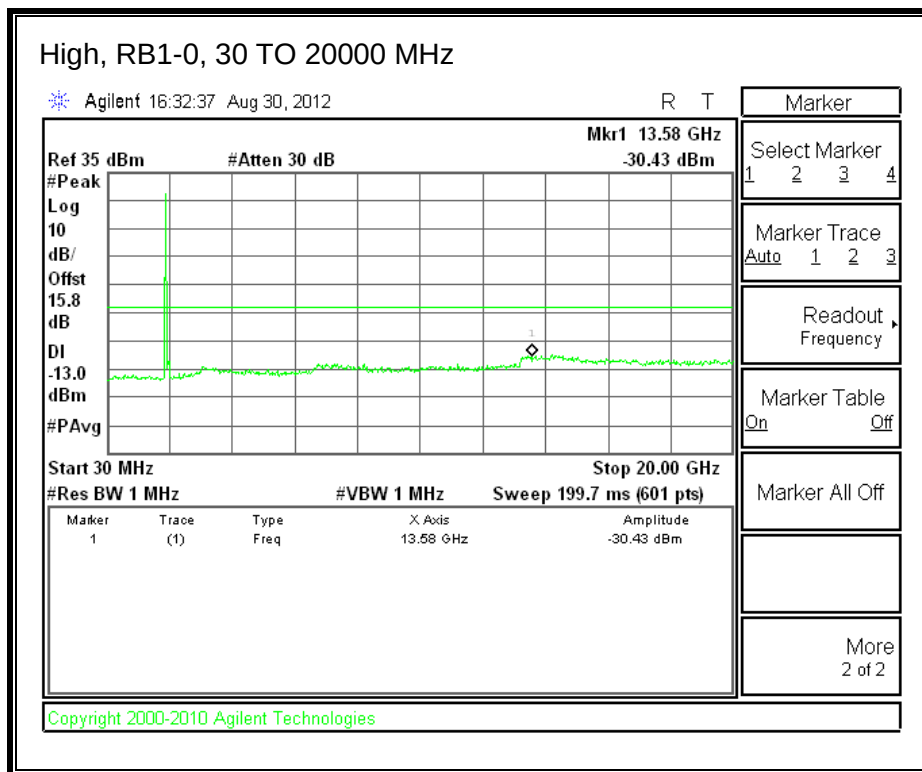




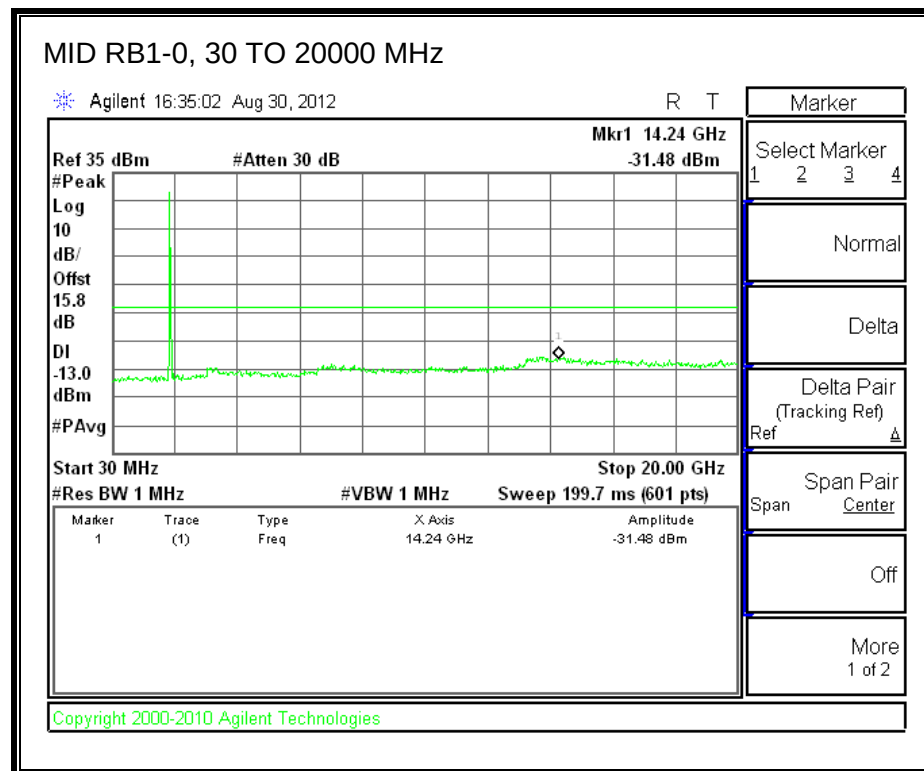
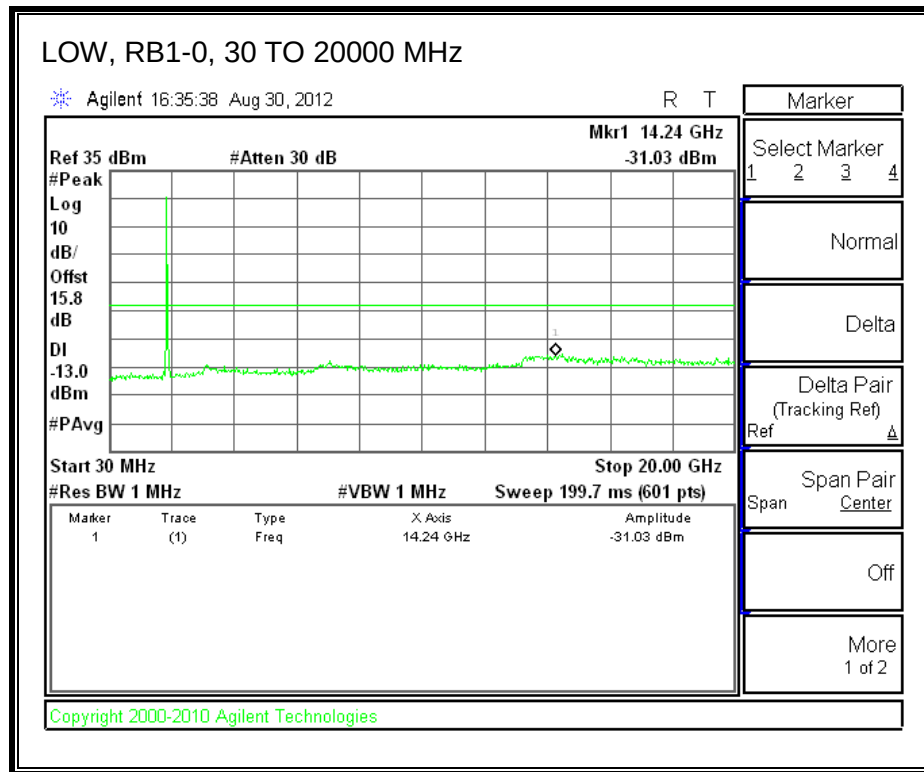
Band 2 (20 MHz BANDWIDTH)

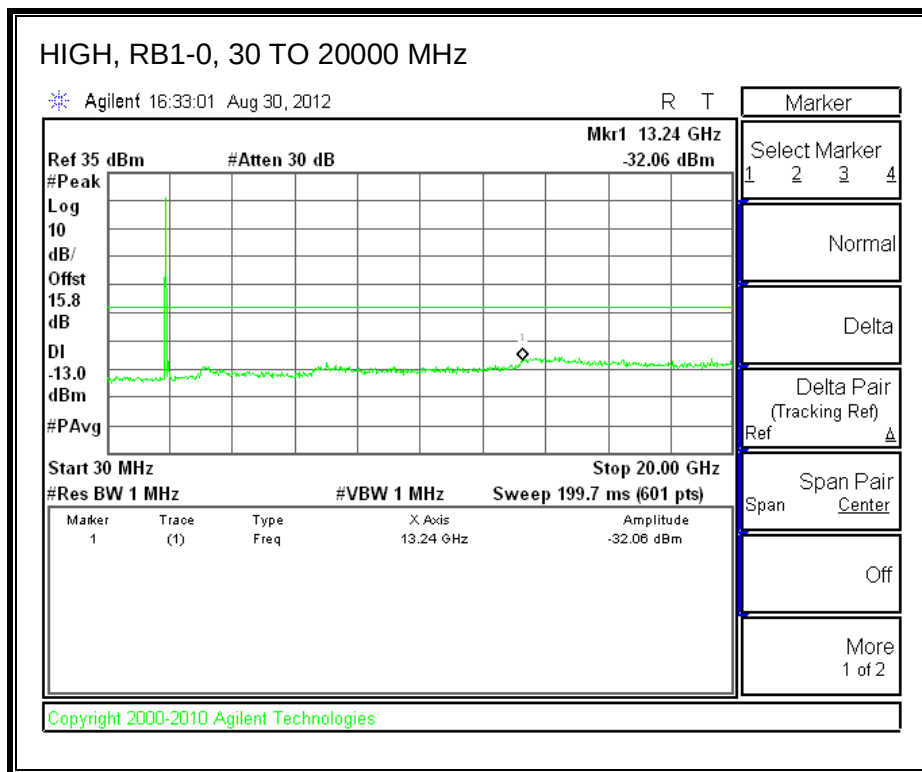
LTE QPSK





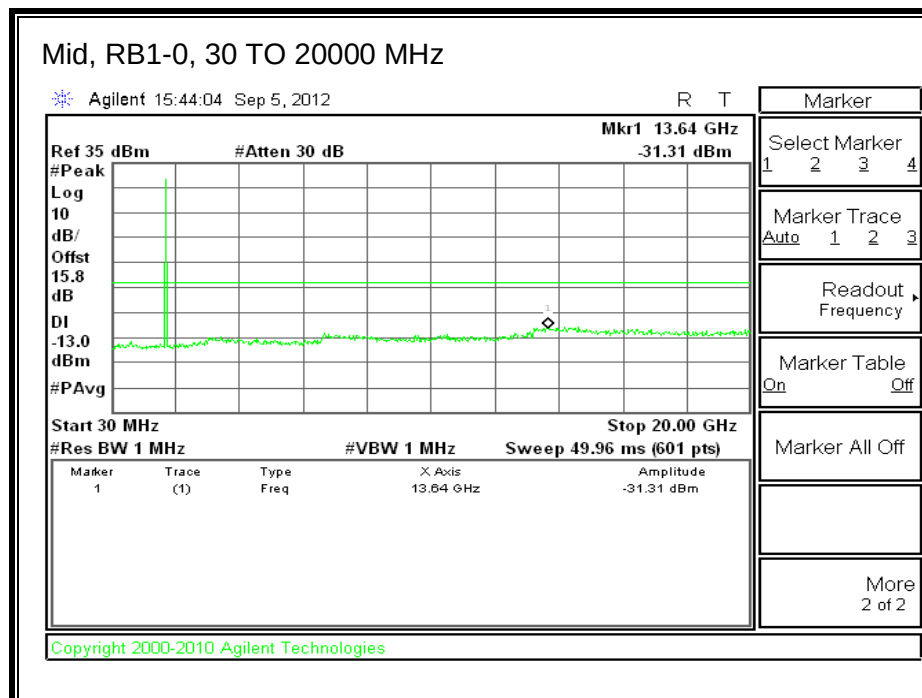
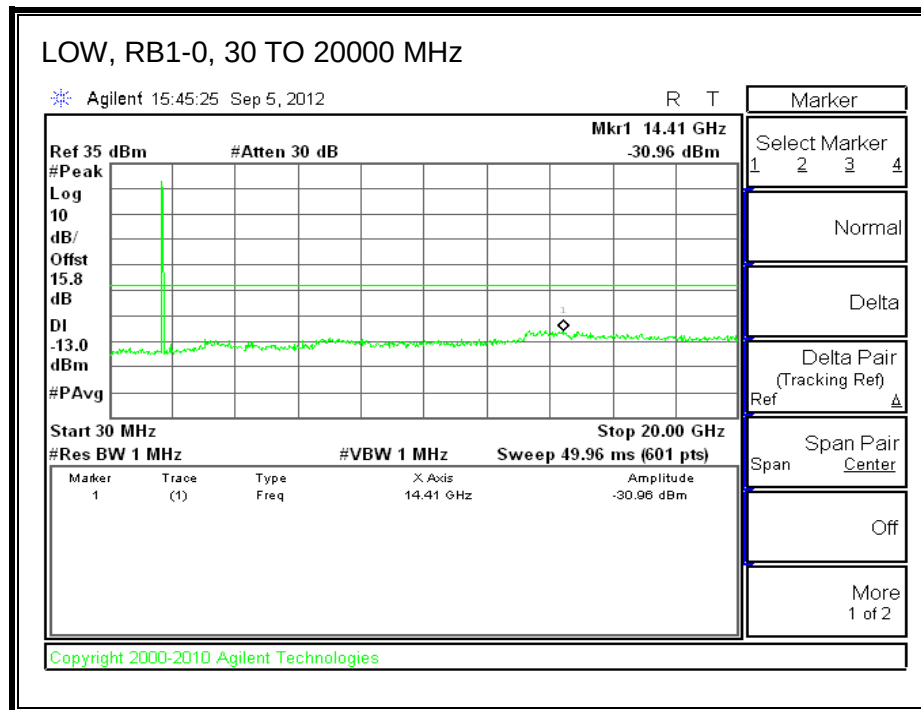
LTE 16QAM

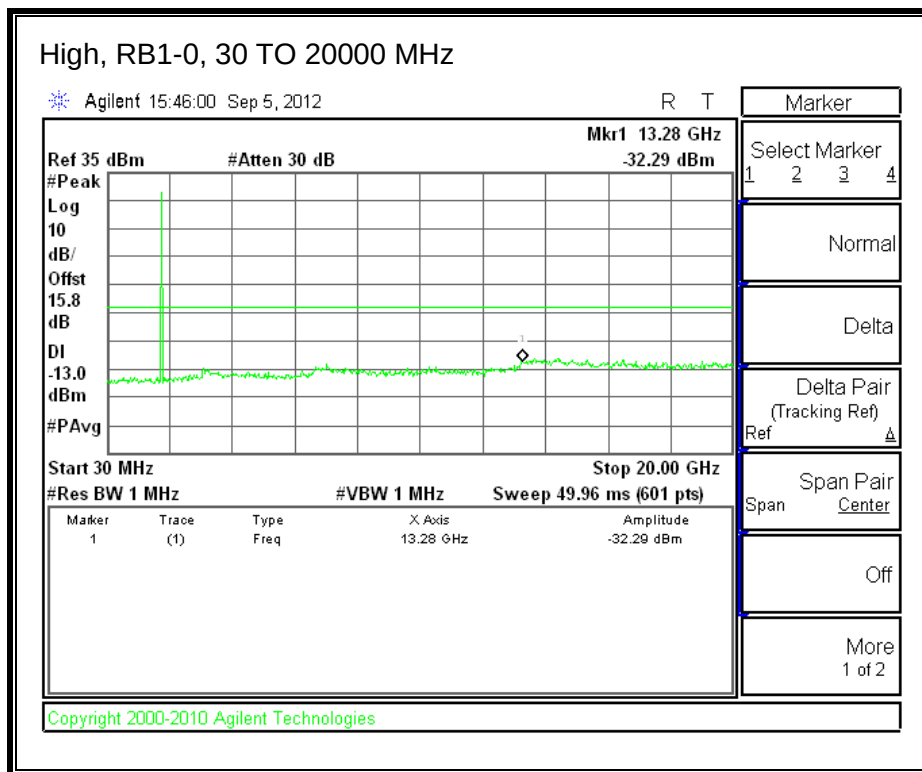




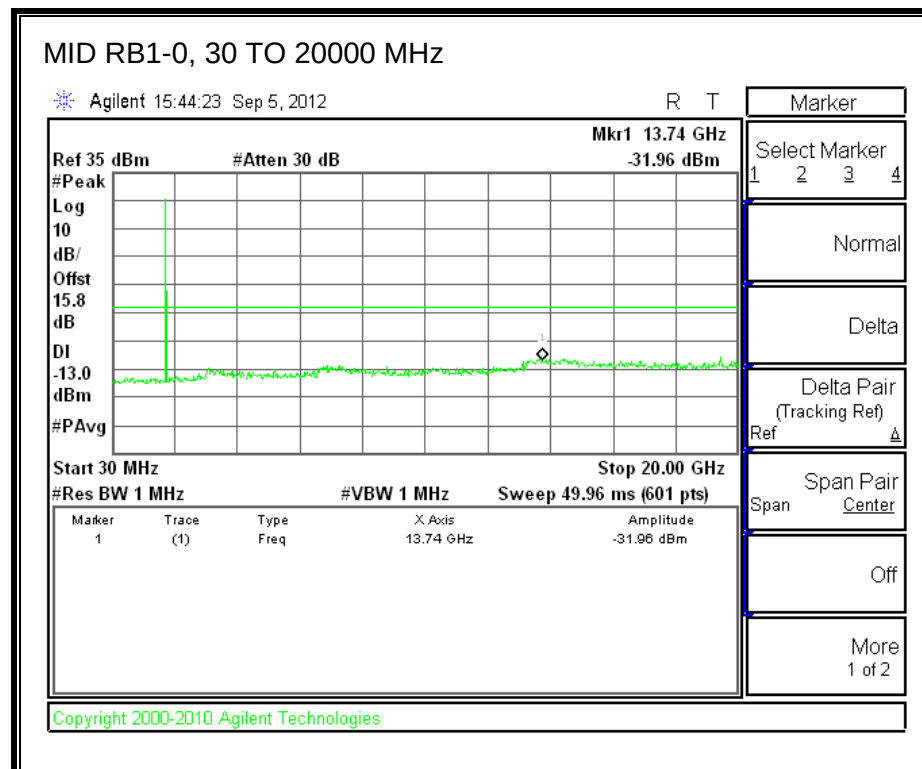
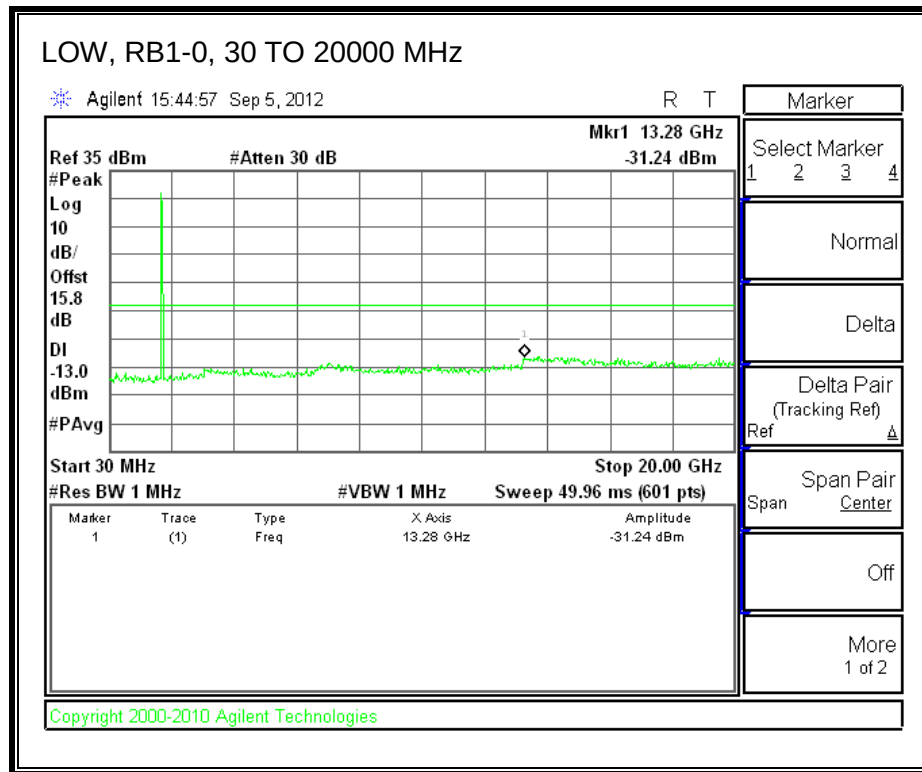
8.3.2. LTE BAND 4

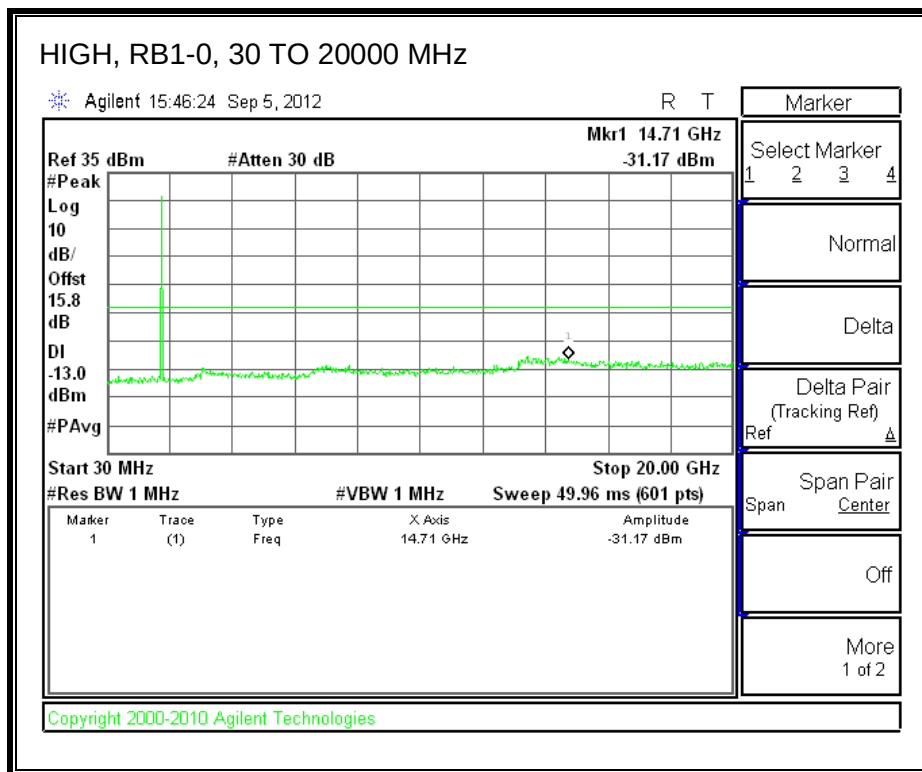
LTE QPSK (1.4 MHz BANDWIDTH)





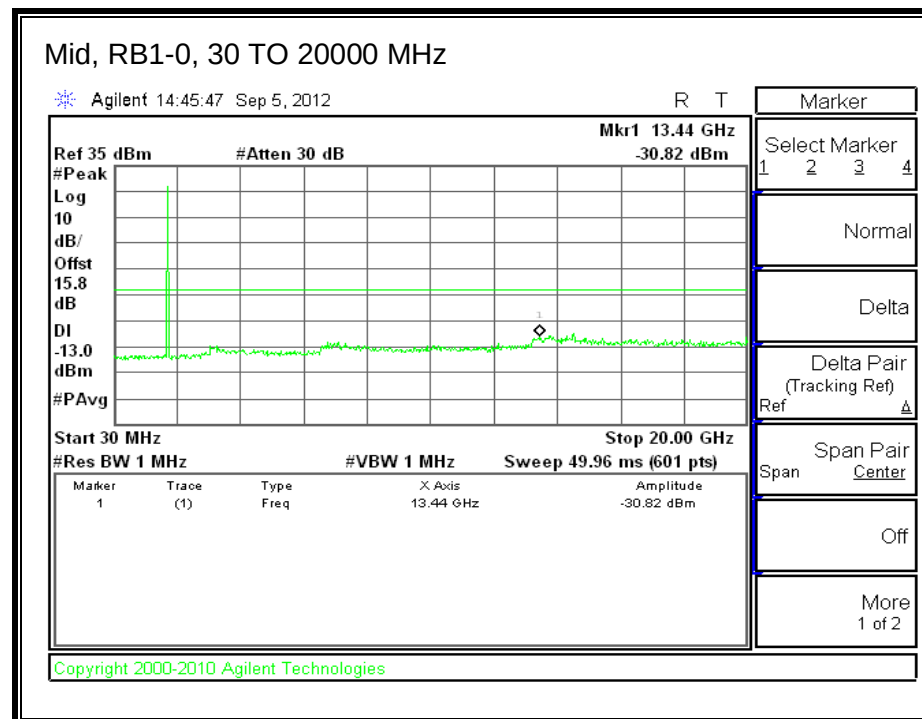
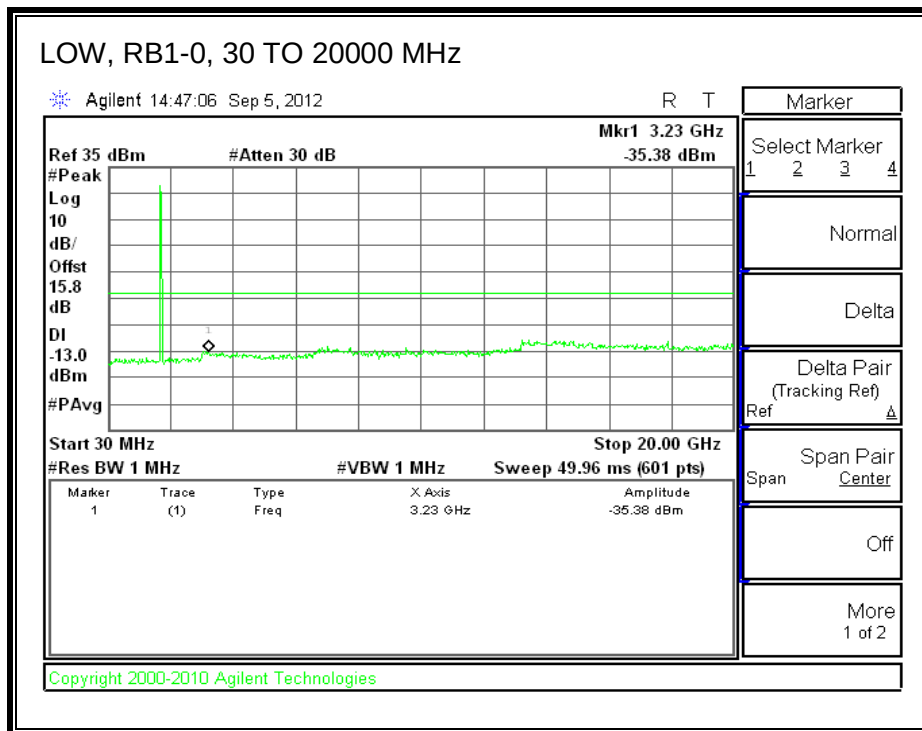
LTE 16QAM

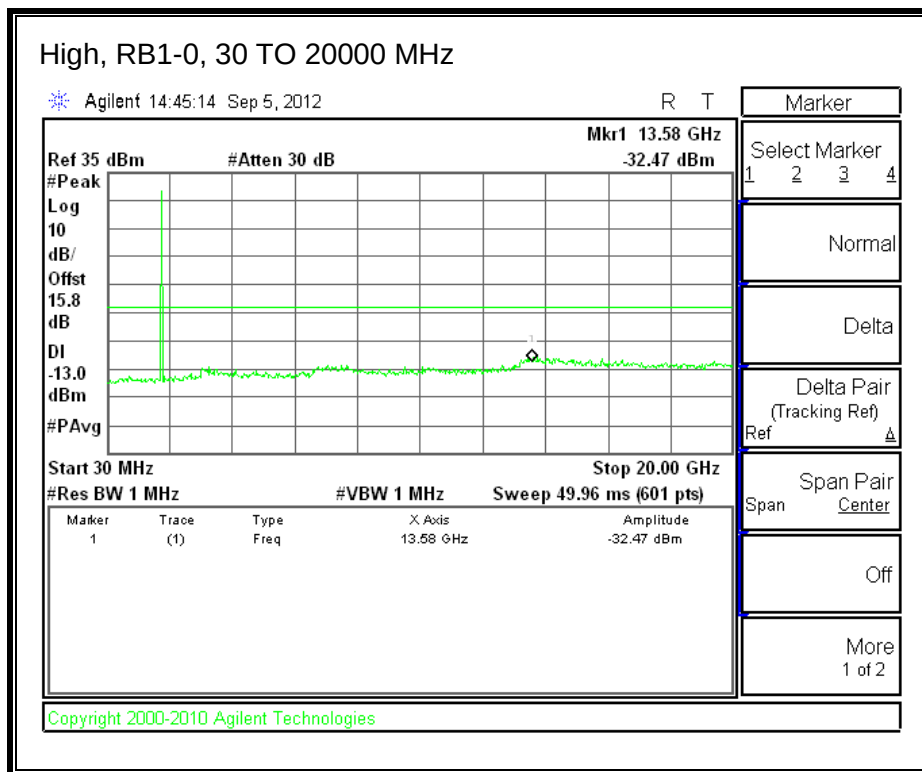




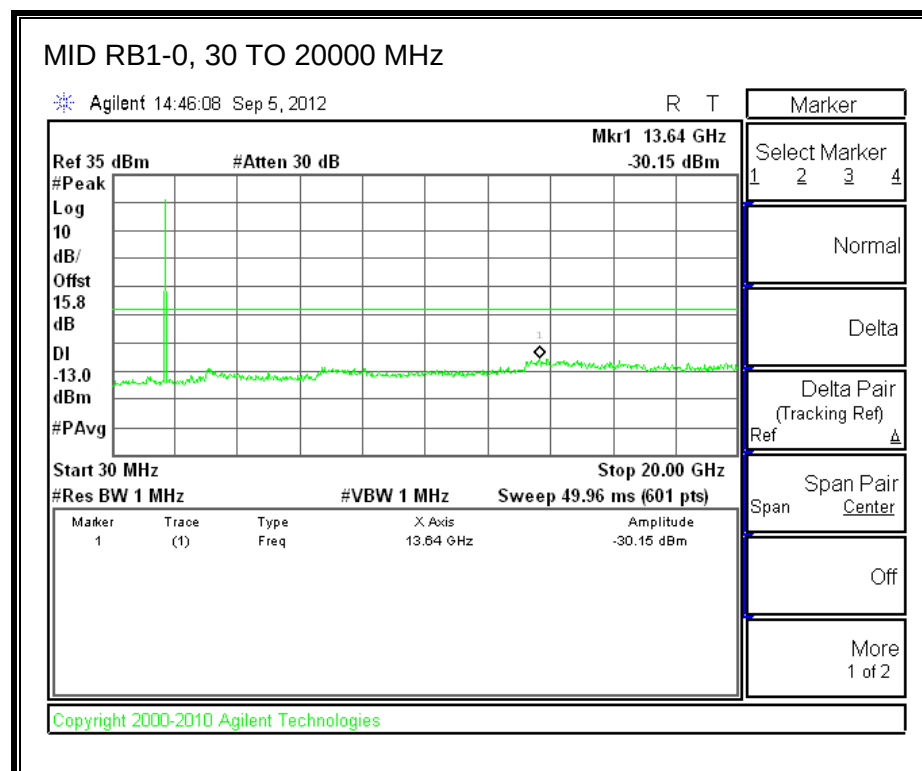
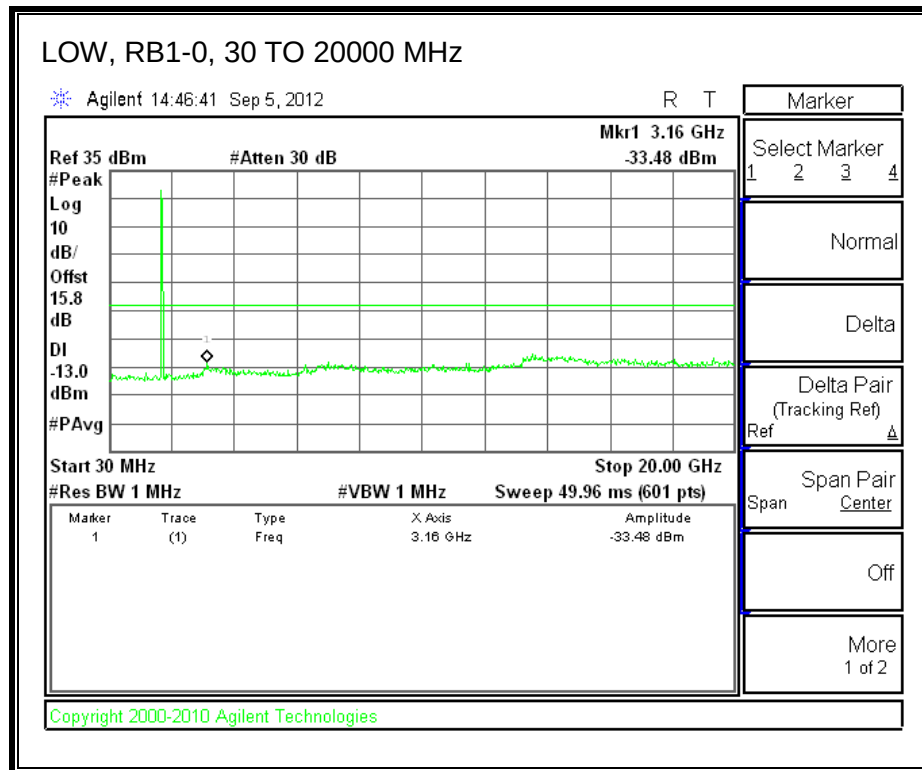
Band 4 (3 MHz BANDWIDTH)

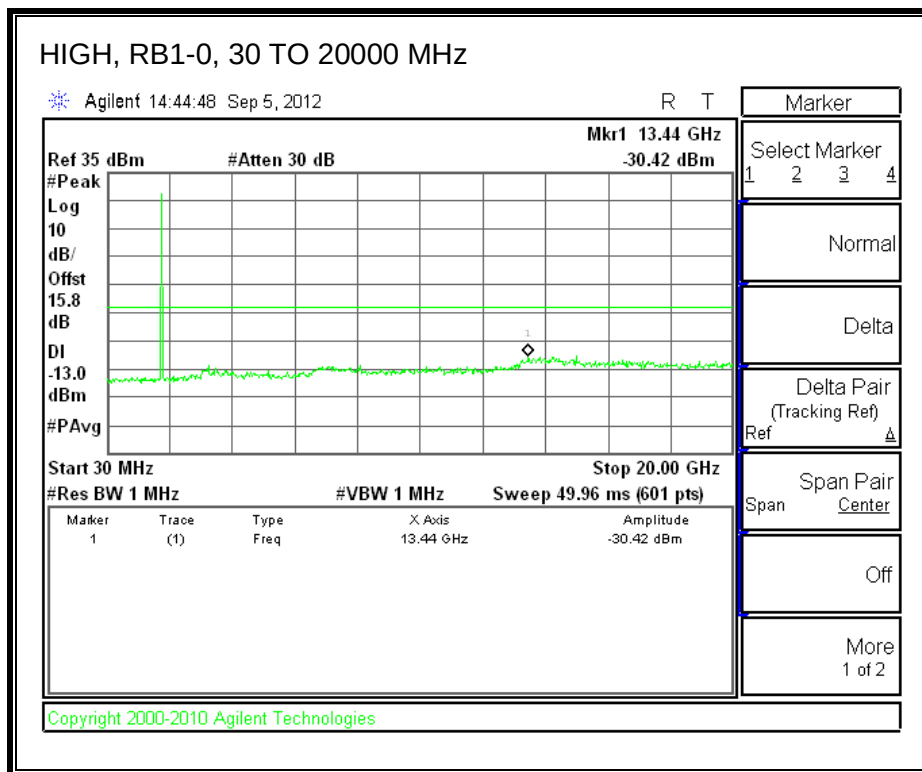
LTE QPSK





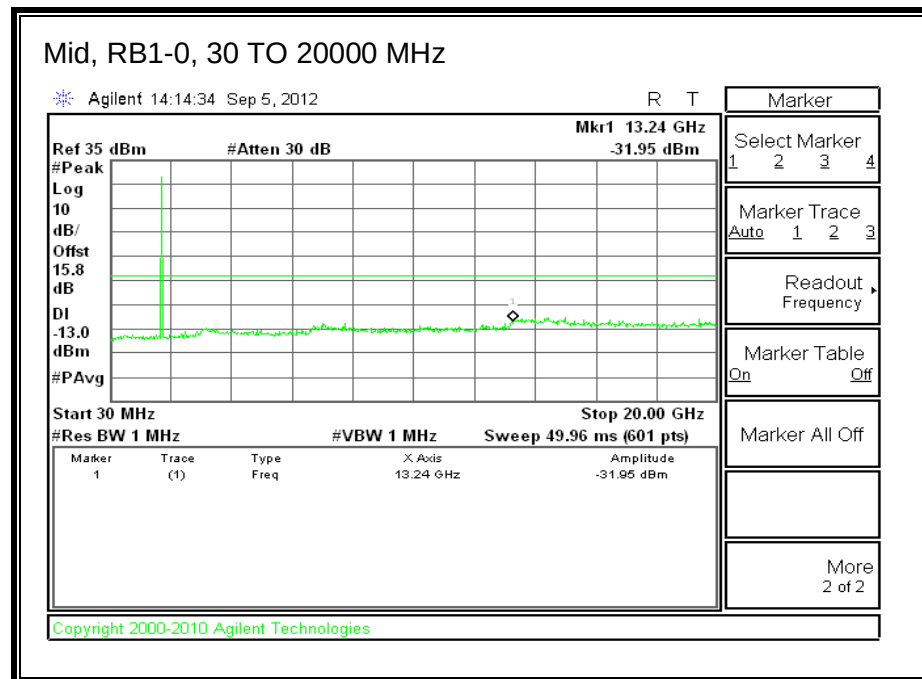
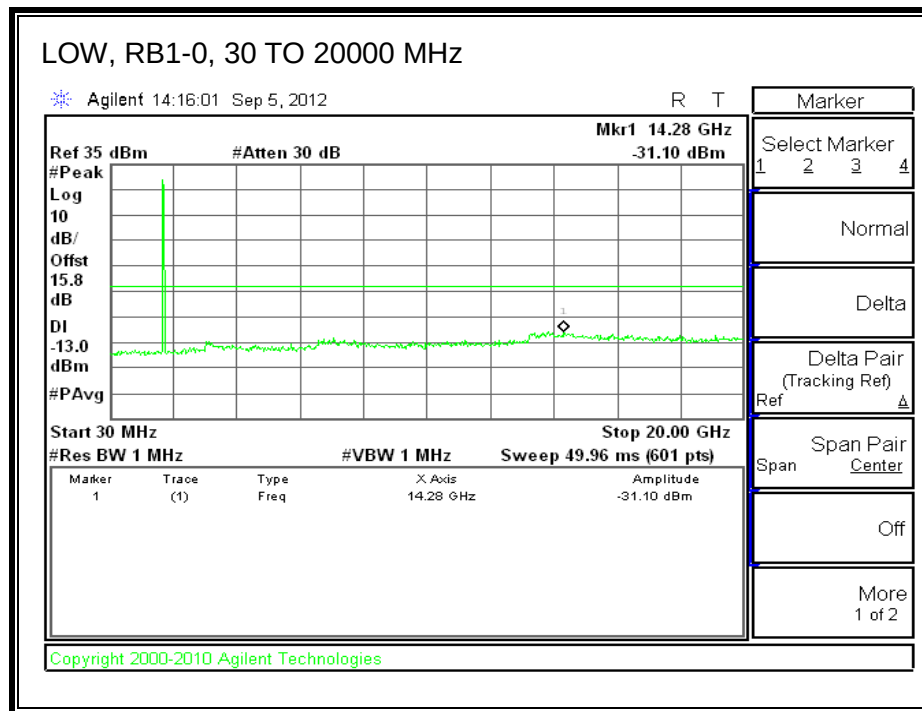
LTE 16QAM

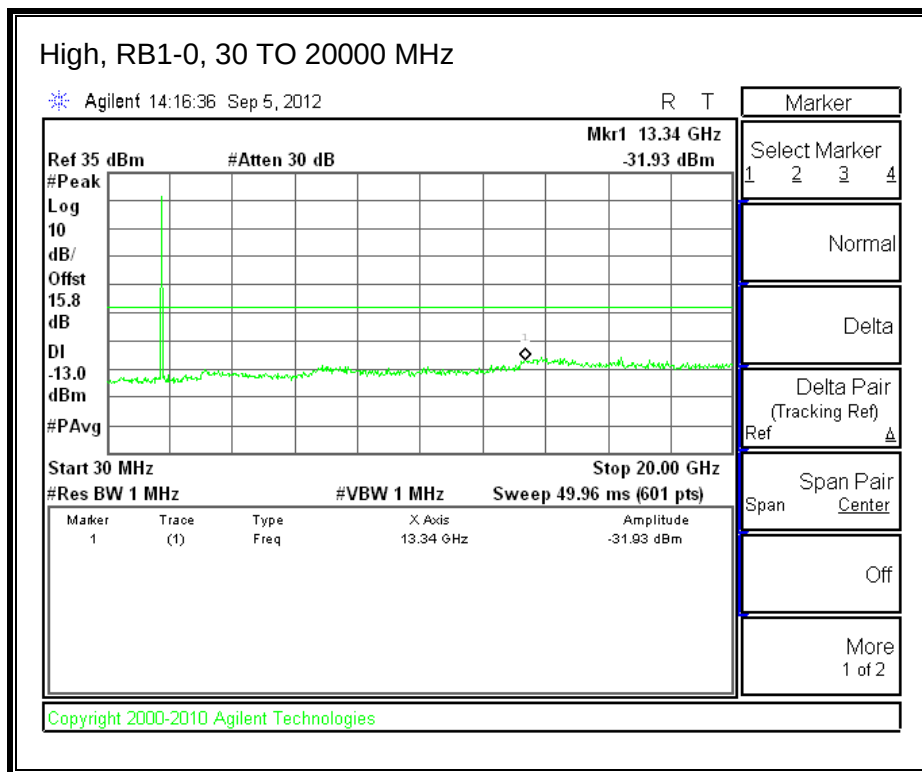




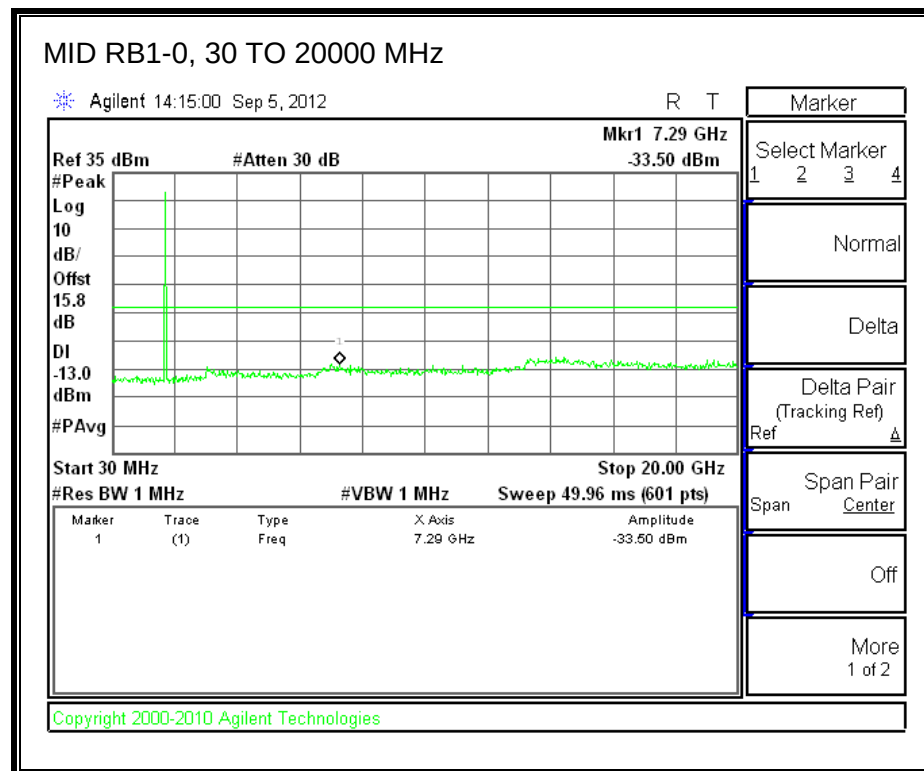
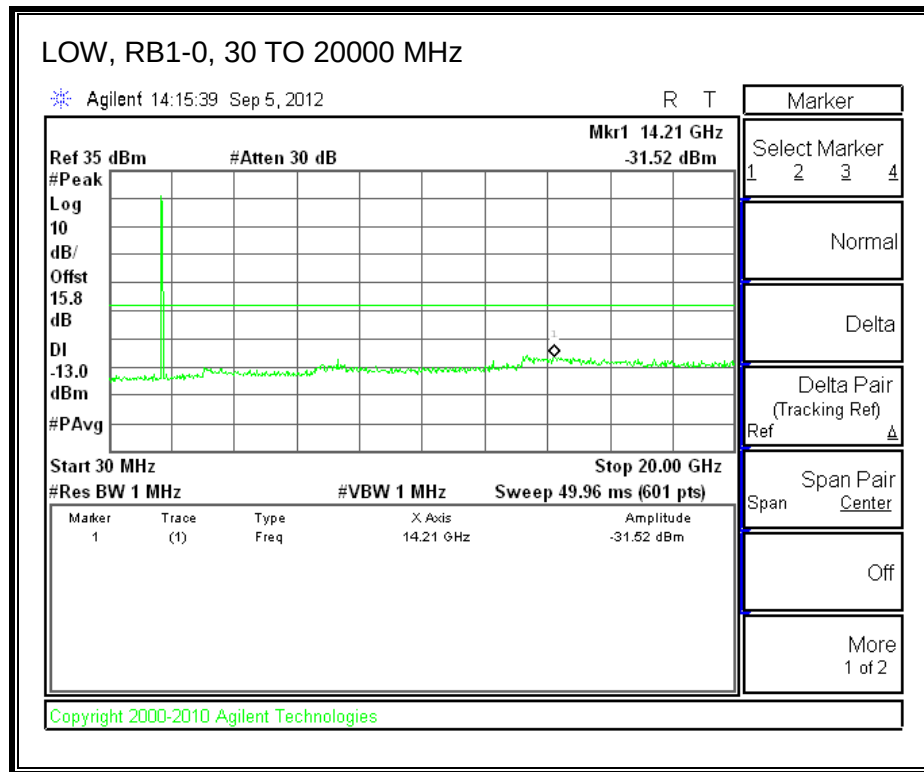
Band 4 (5 MHz BANDWIDTH)

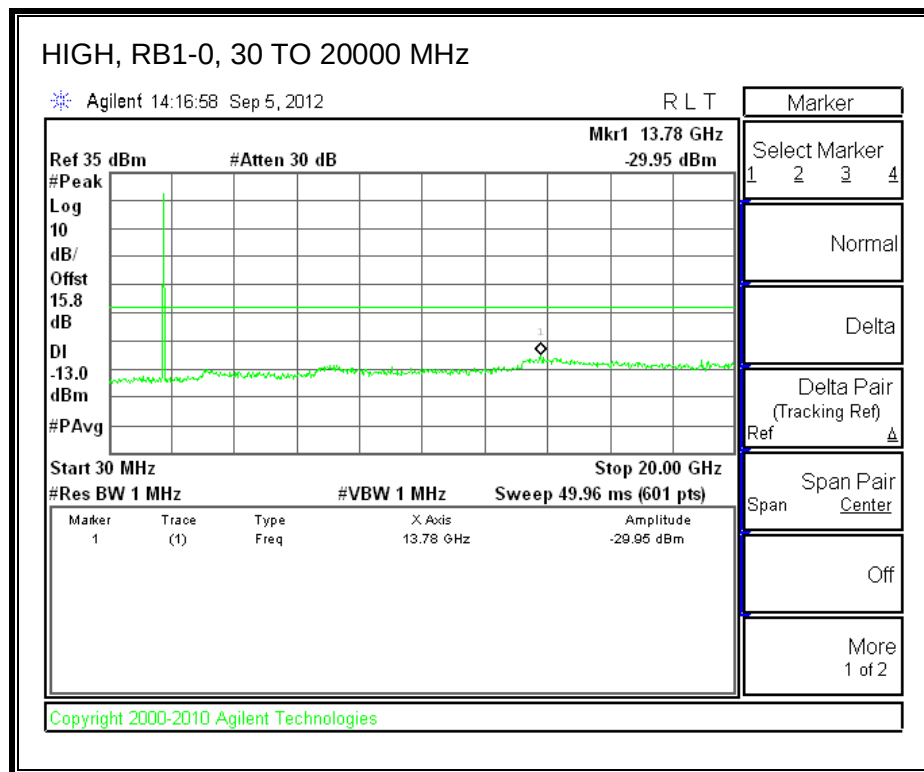
LTE QPSK





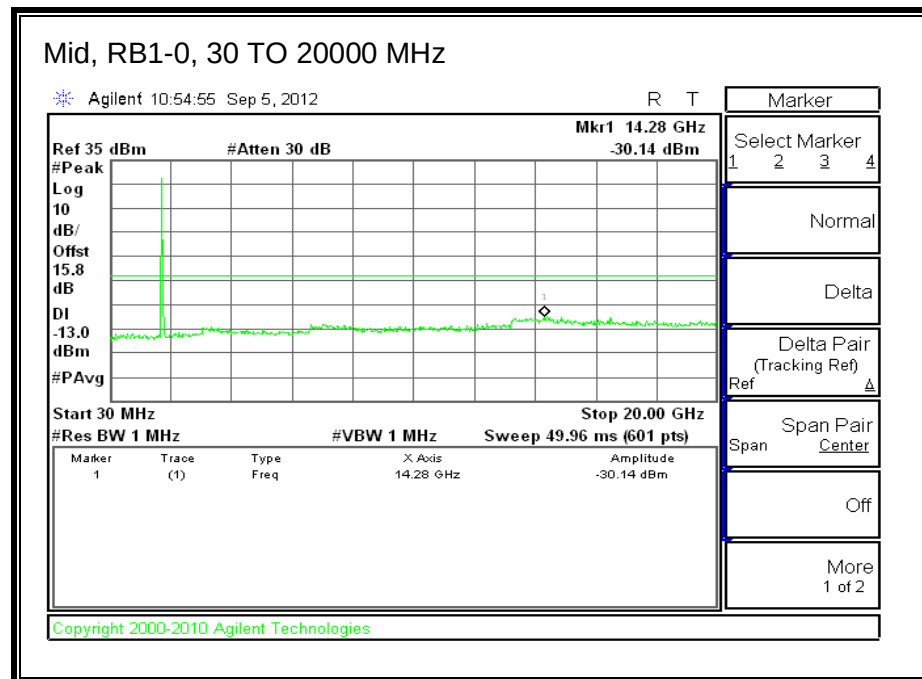
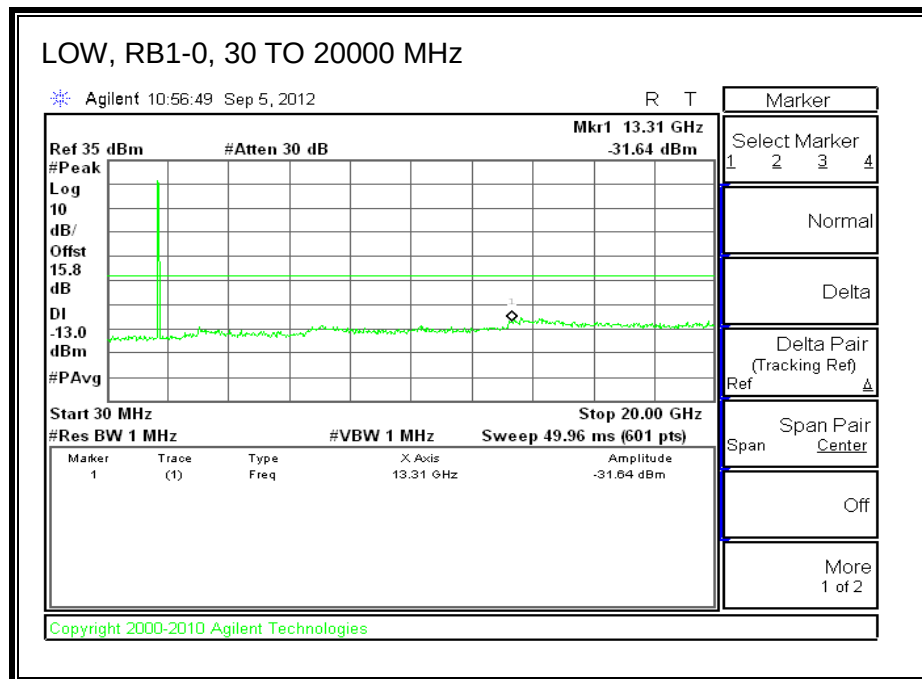
LTE 16QAM

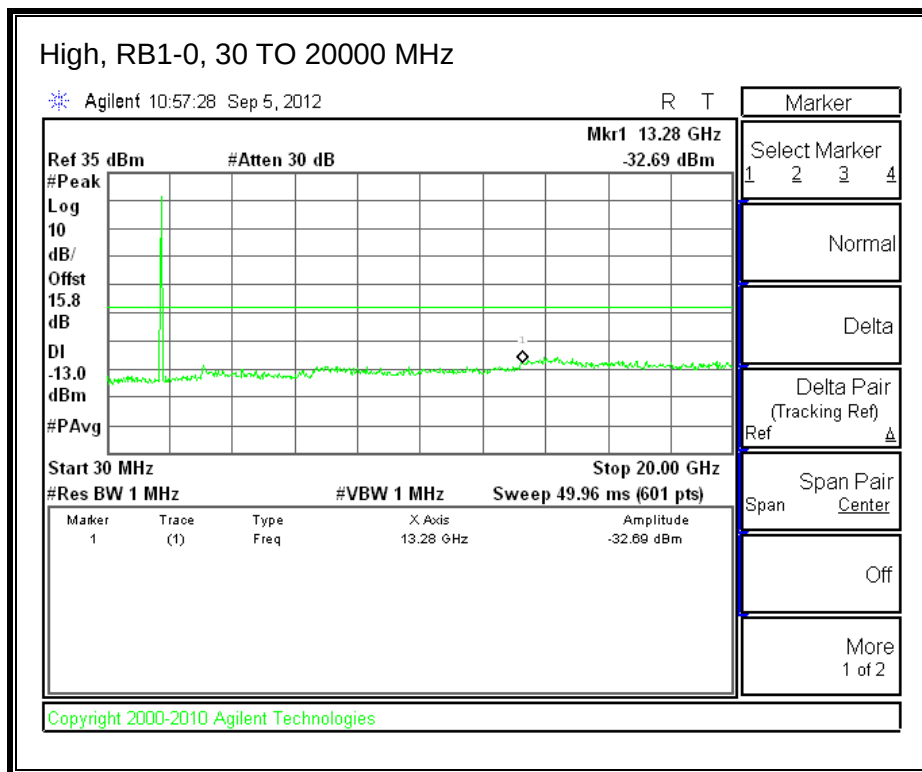




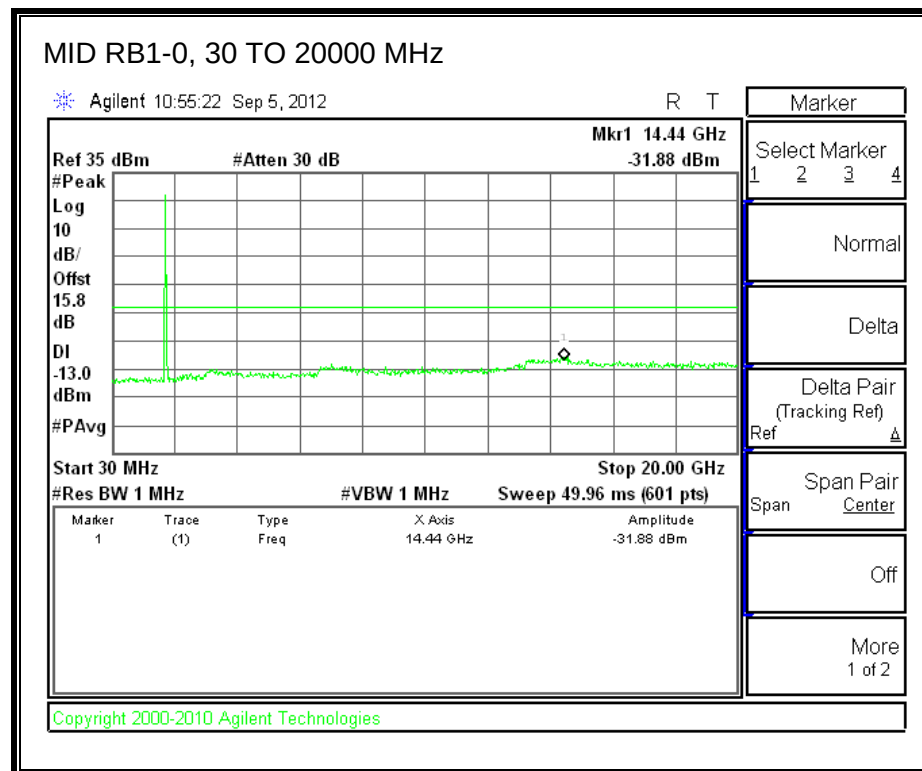
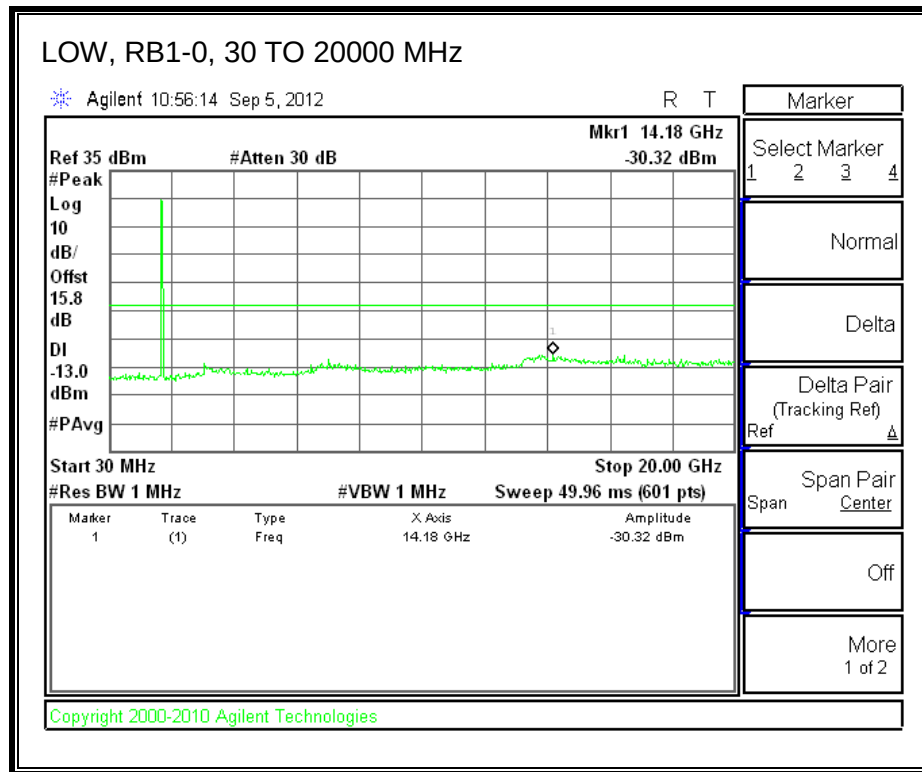
Band 4 (10 MHz BANDWIDTH)

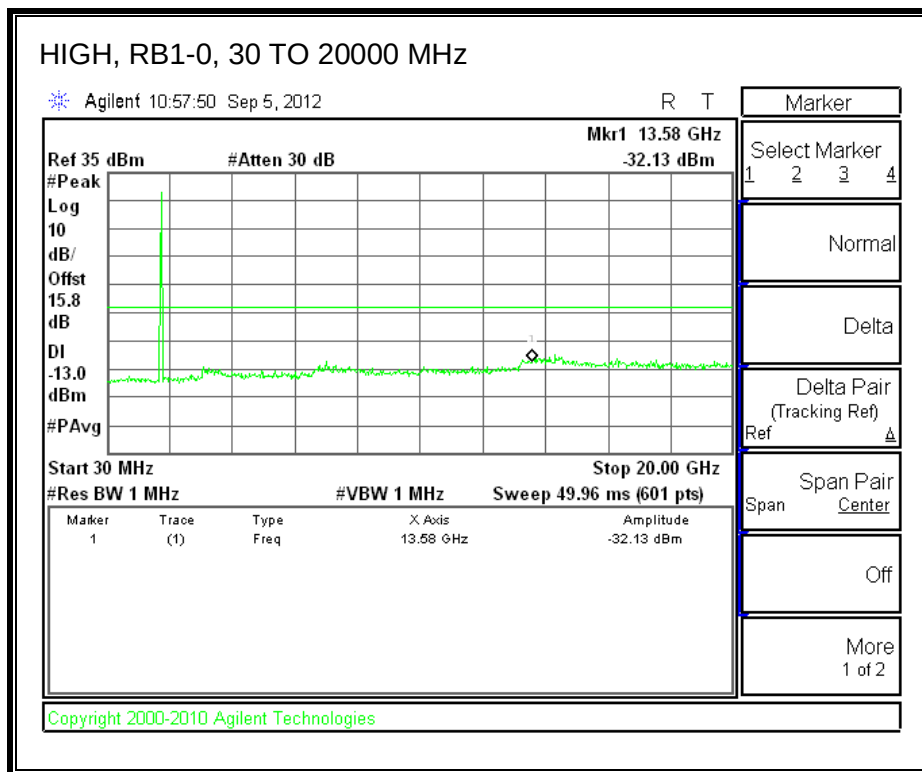
LTE QPSK





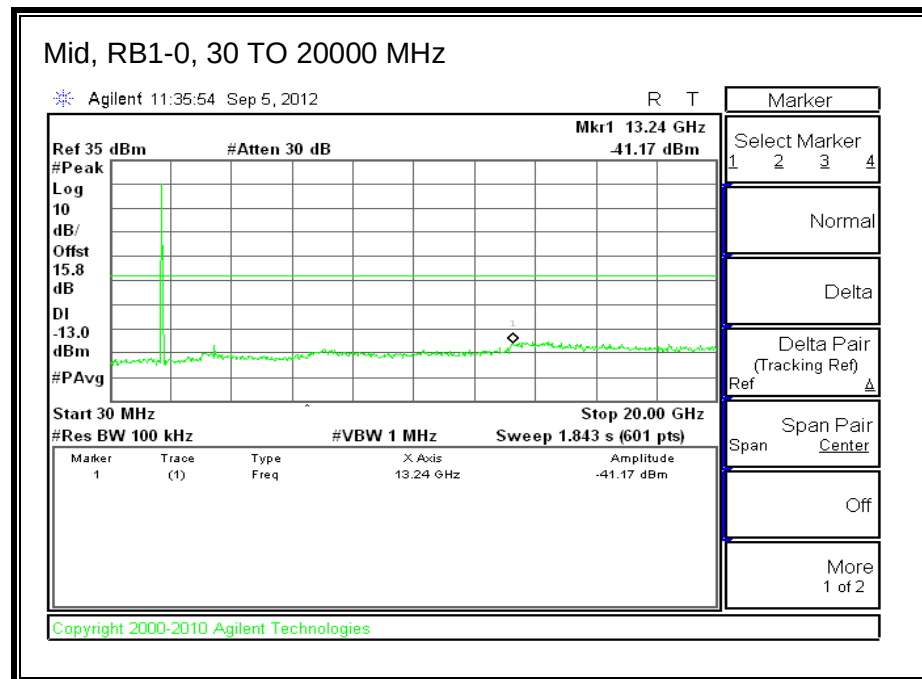
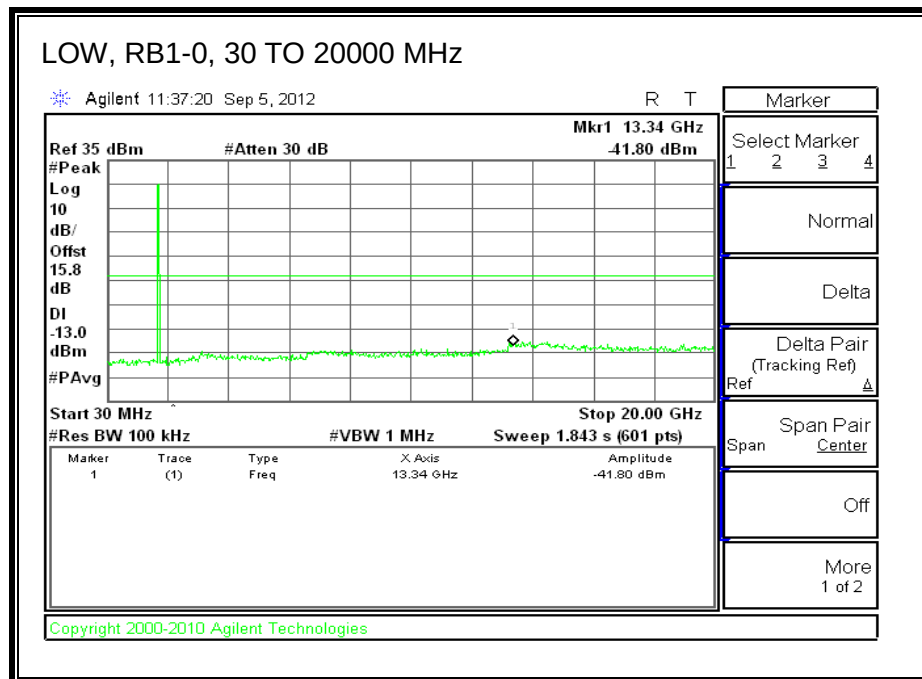
LTE 16QAM

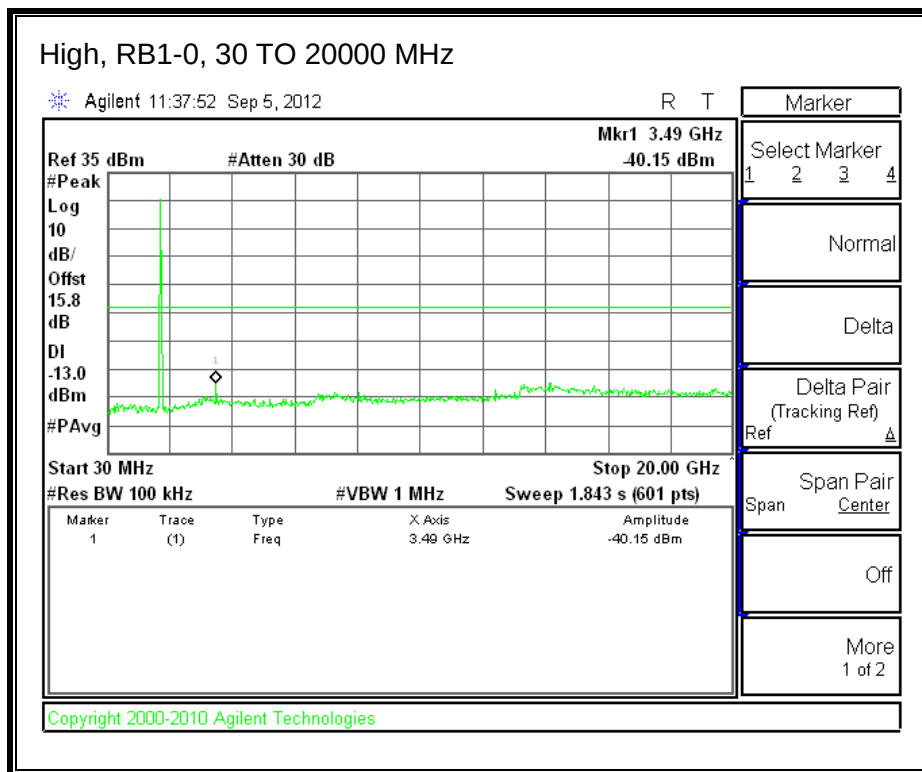




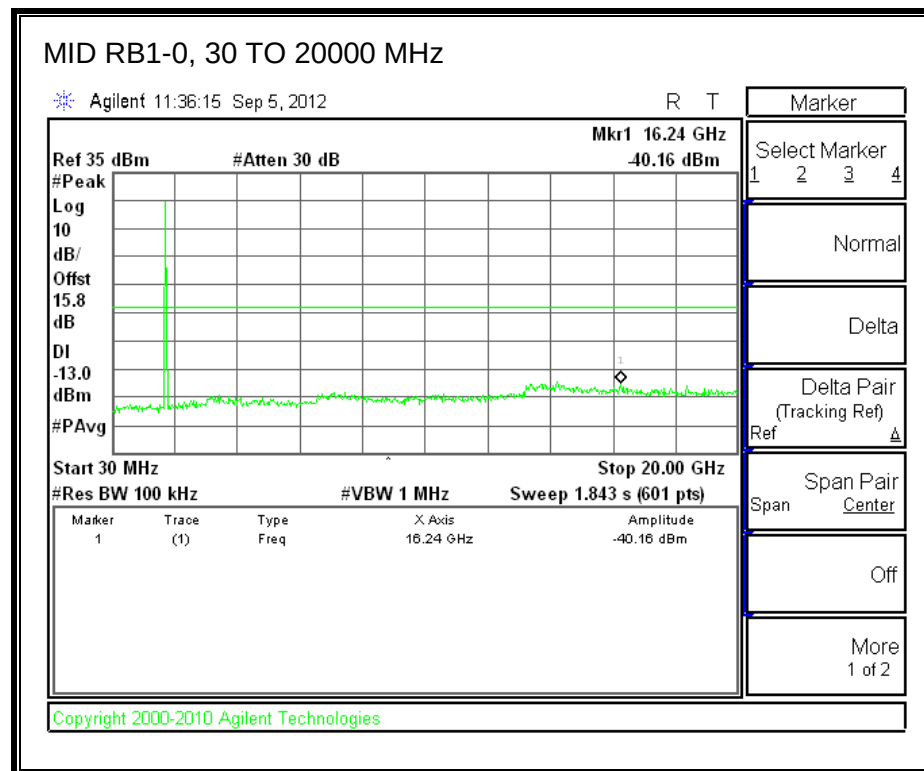
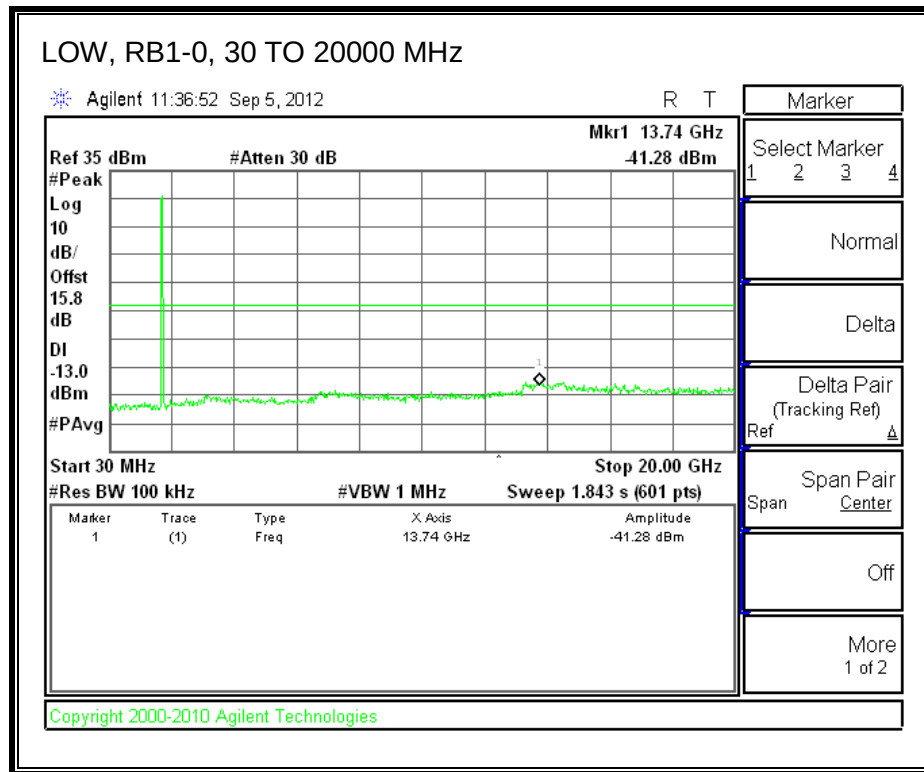
Band 4 (15 MHz BANDWIDTH)

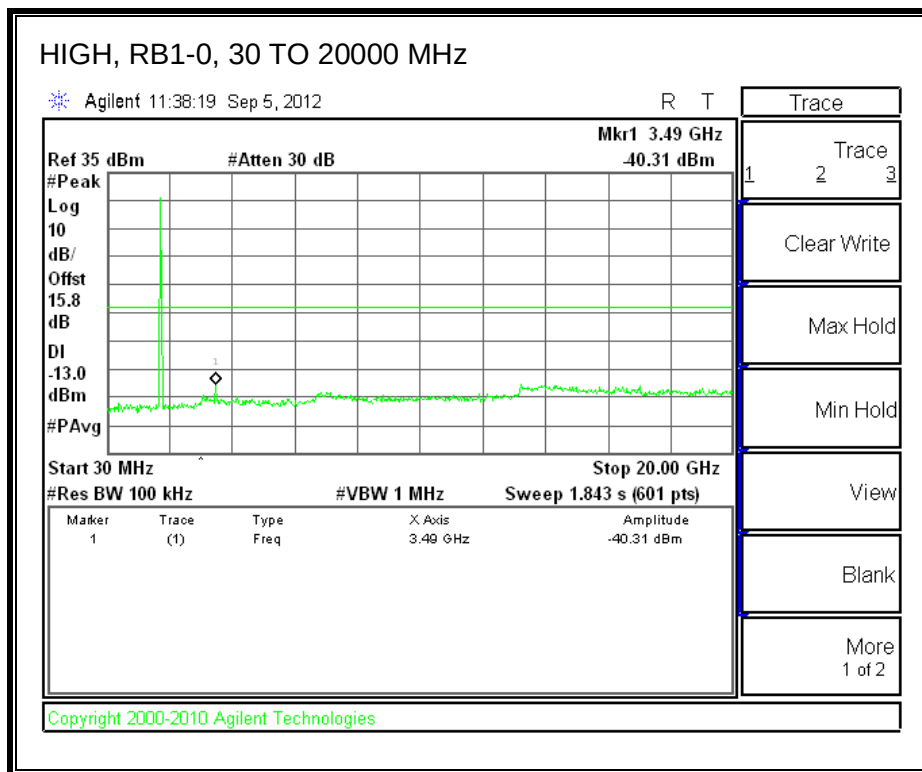
LTE QPSK





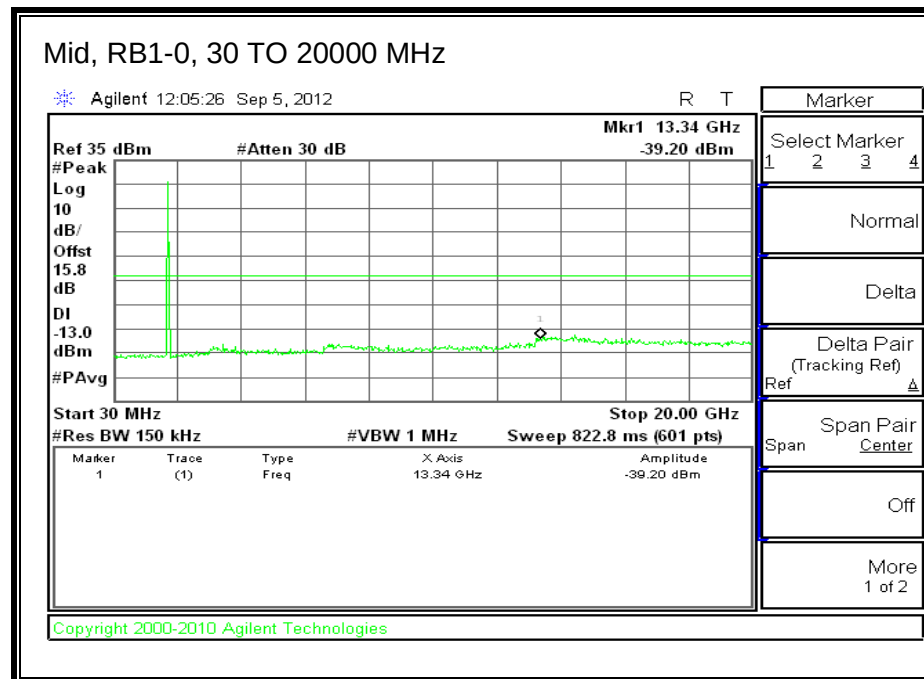
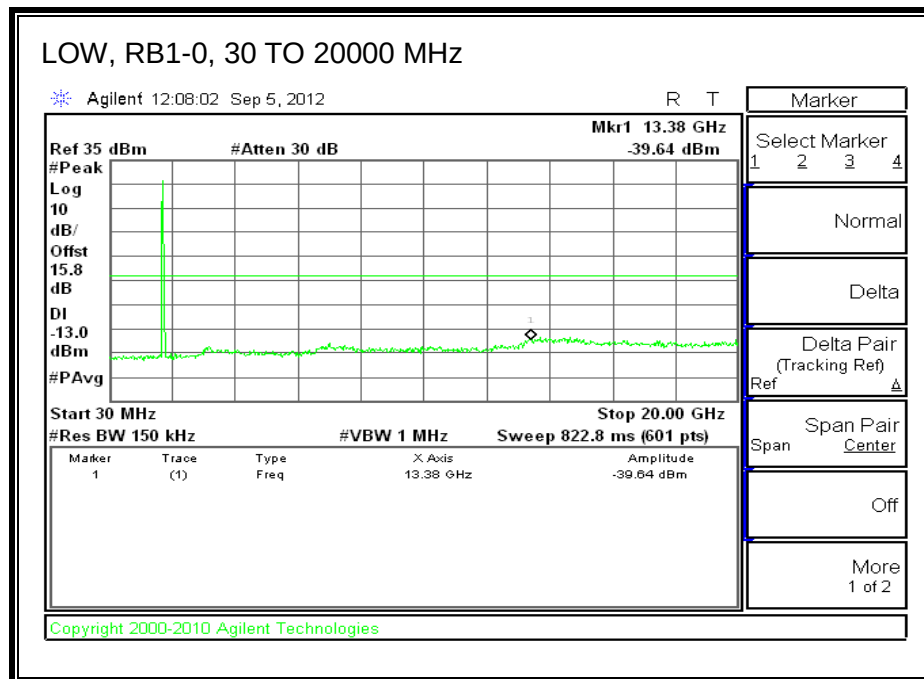
LTE 16QAM

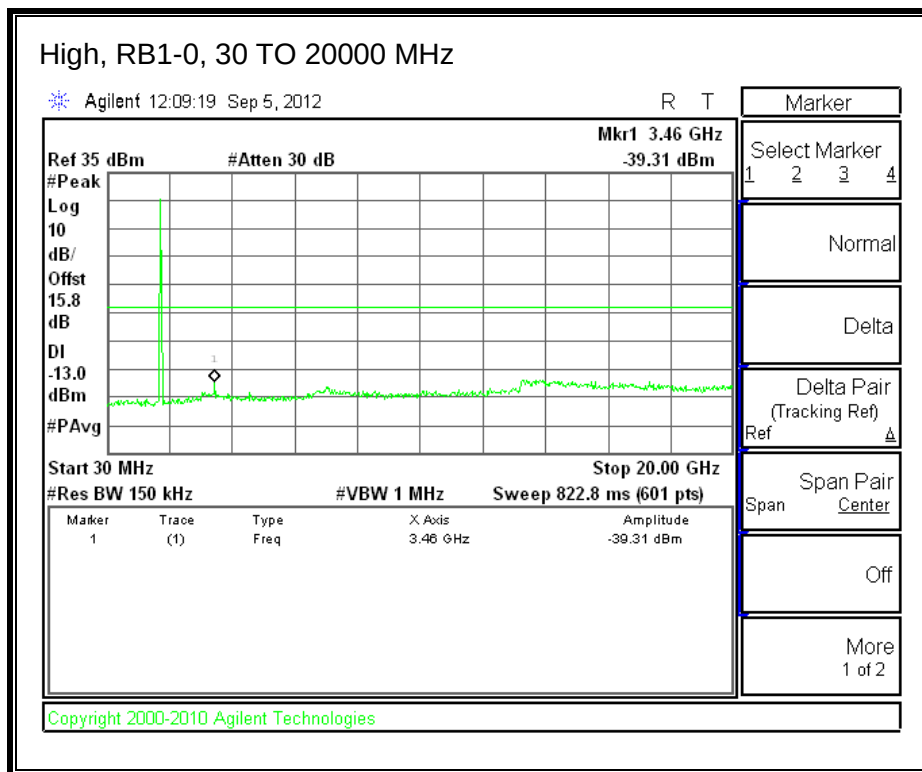




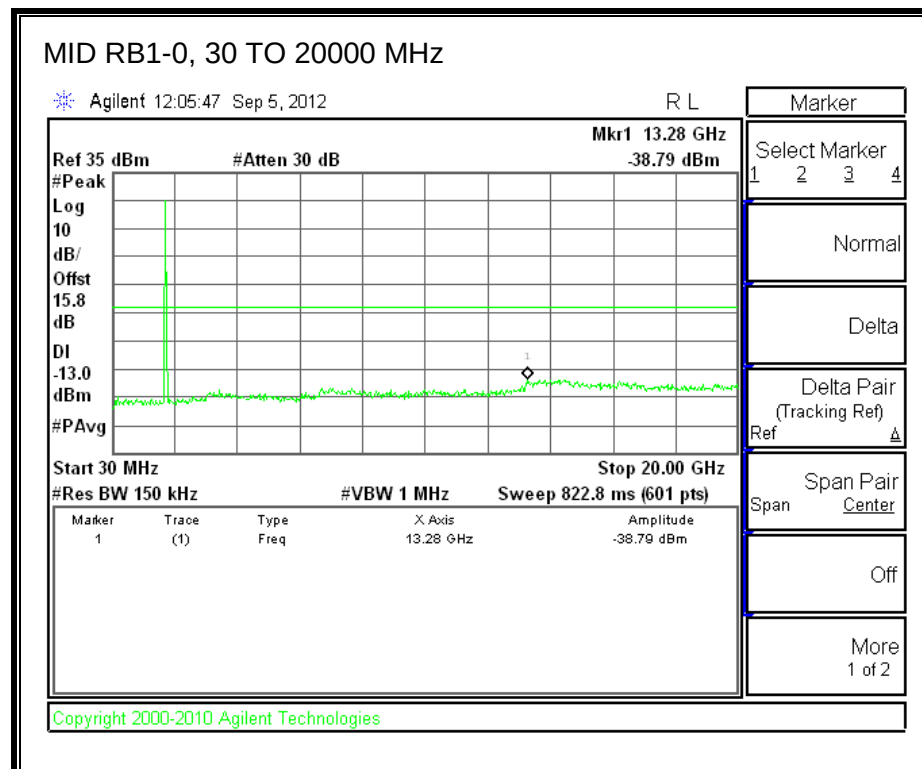
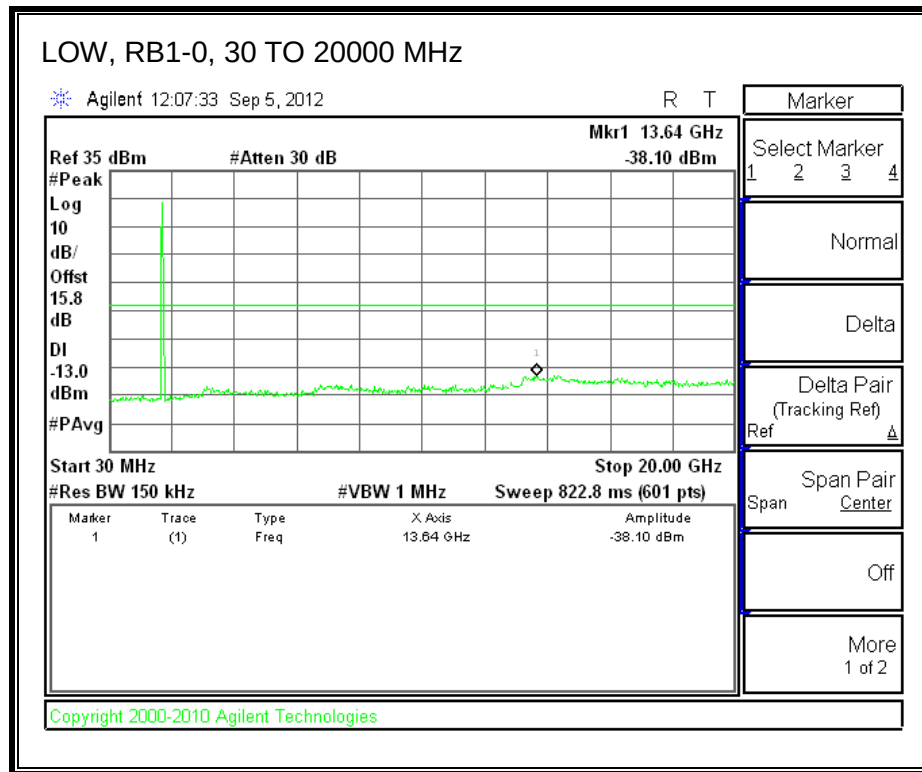
Band 4 (20 MHz BANDWIDTH)

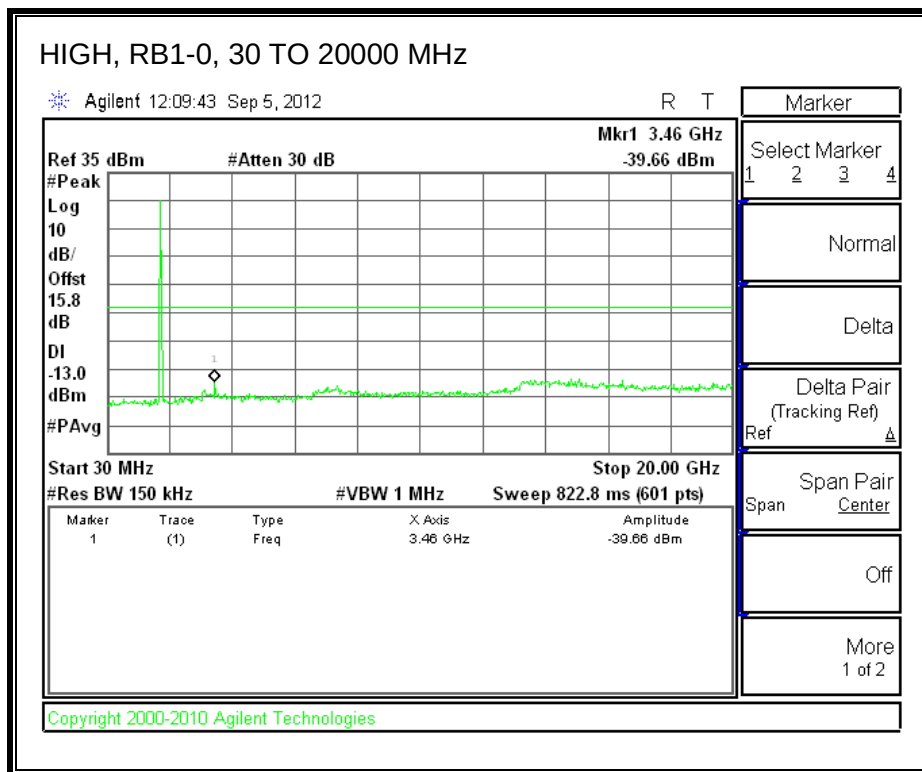
LTE QPSK





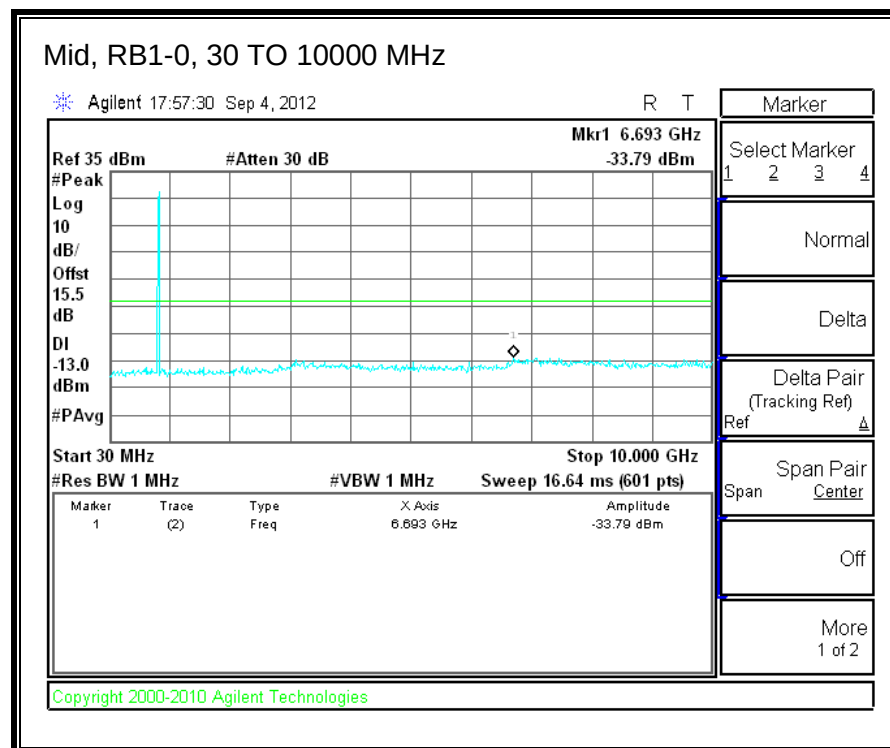
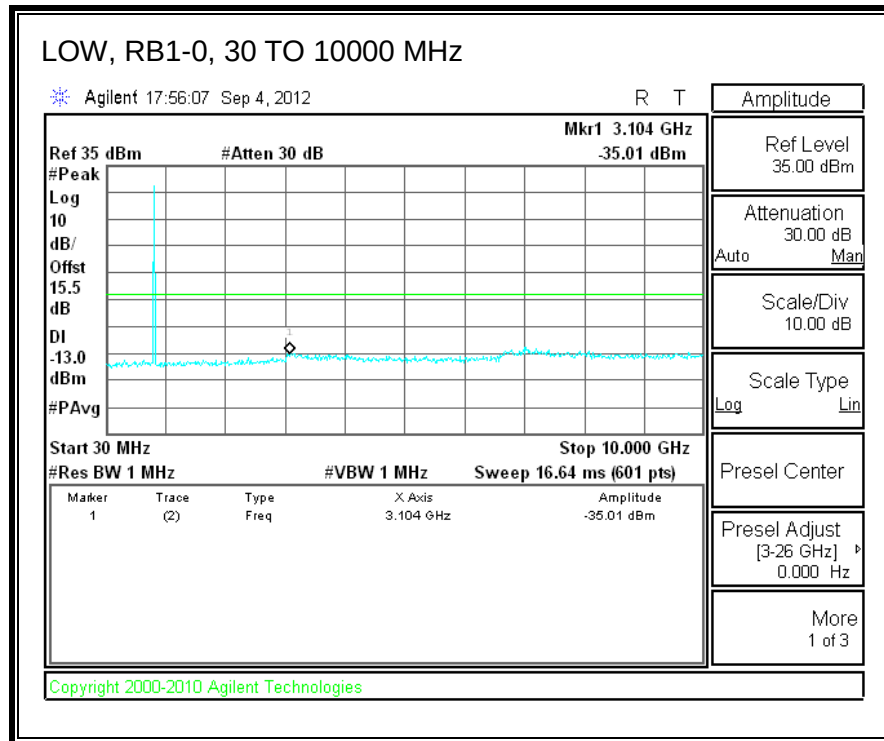
LTE 16QAM

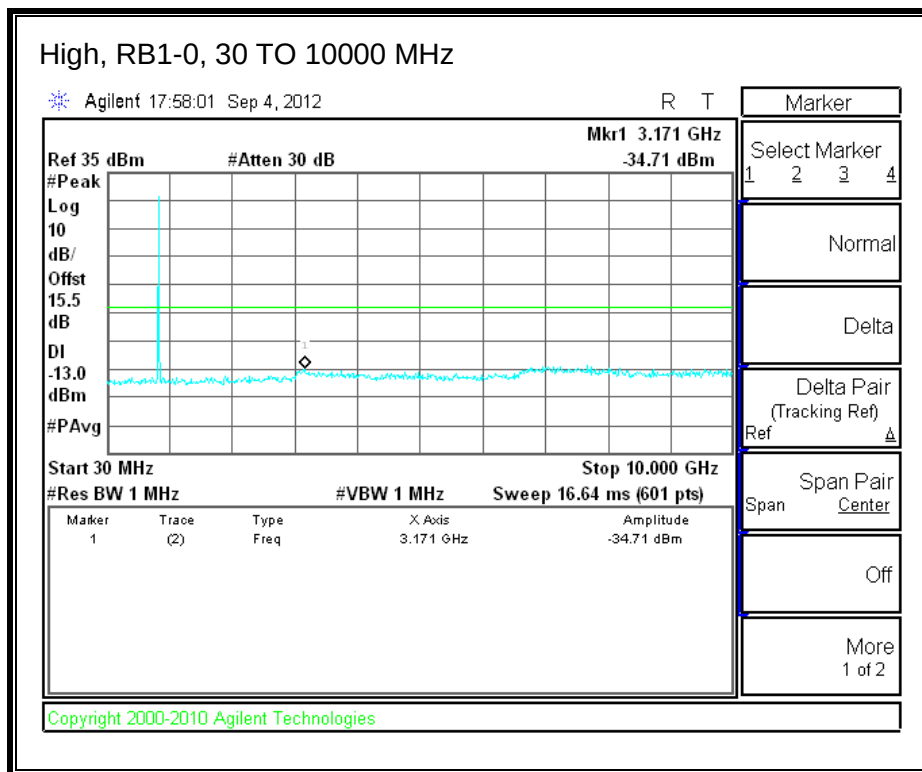




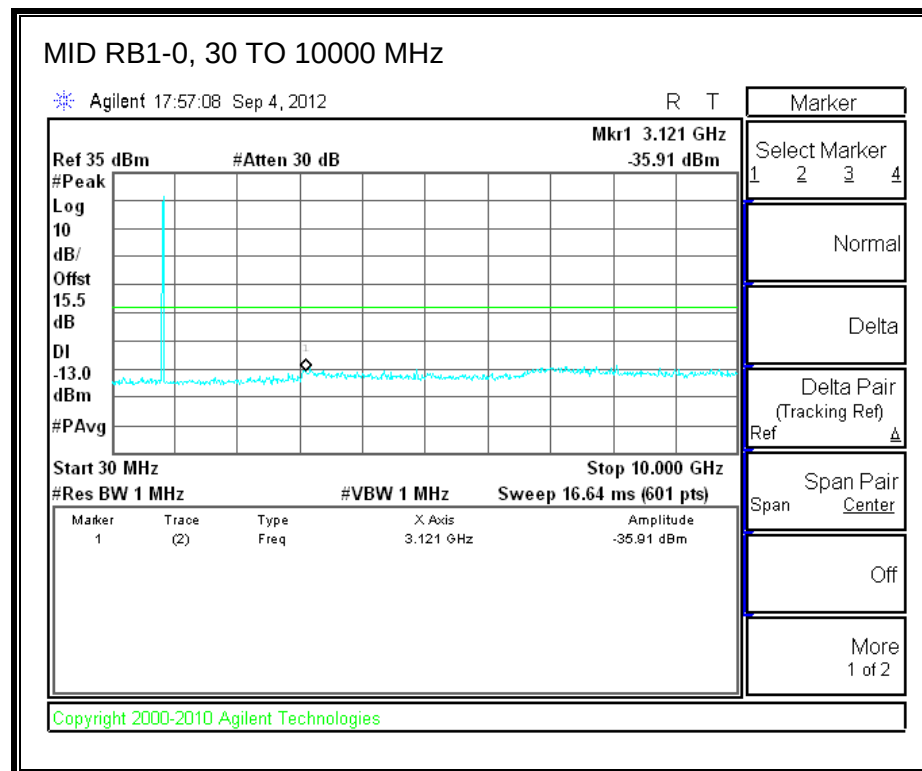
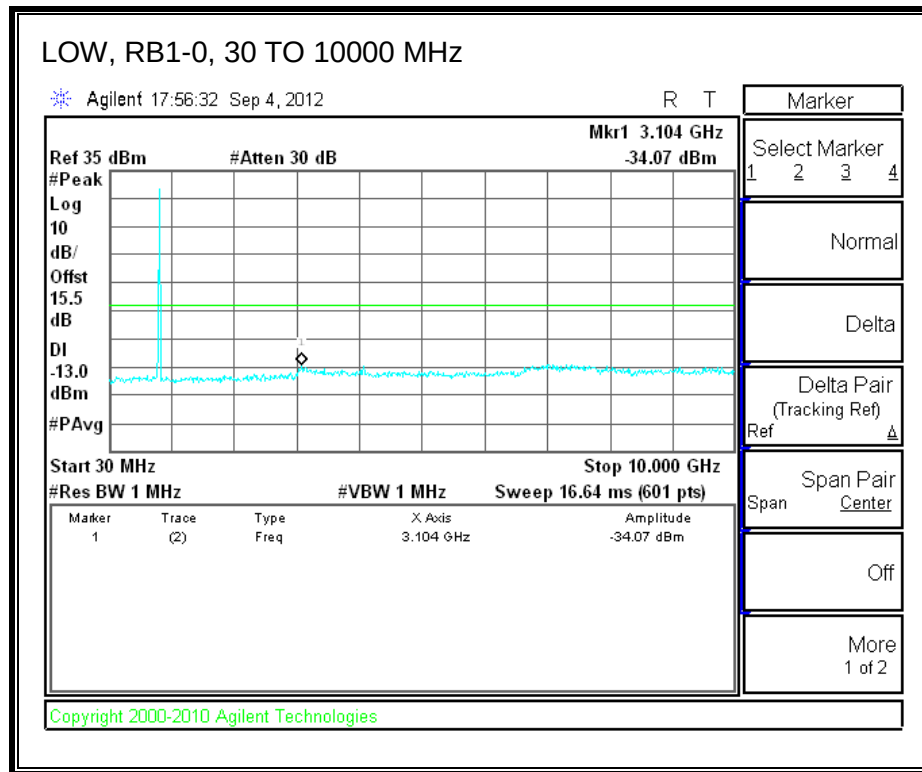
8.3.3. LTE BAND 5

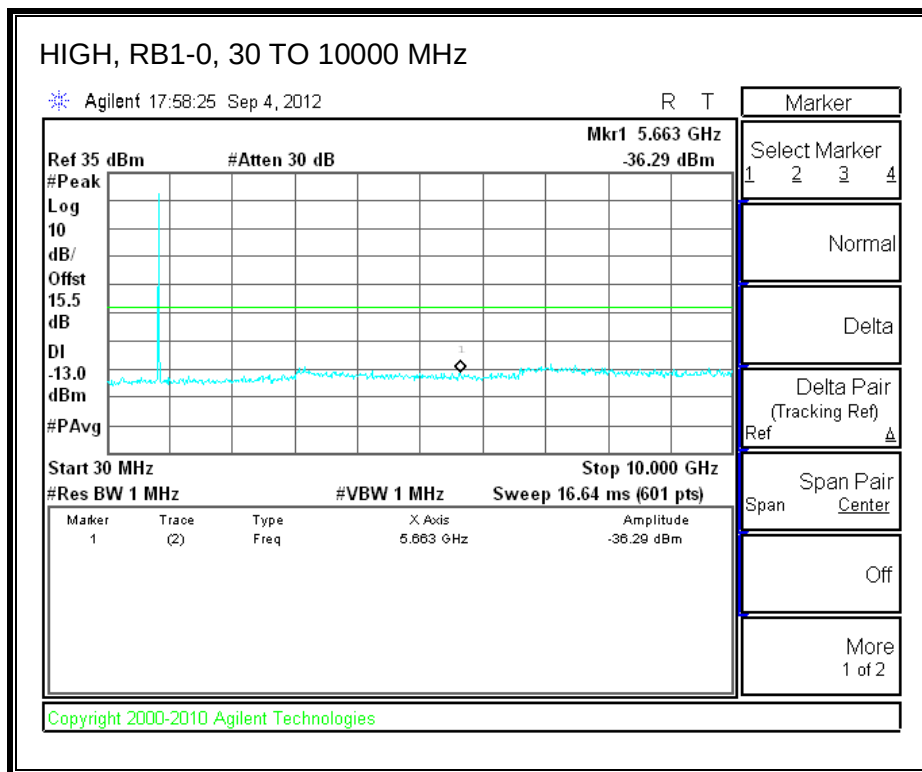
LTE QPSK (1.4 MHz BANDWIDTH)





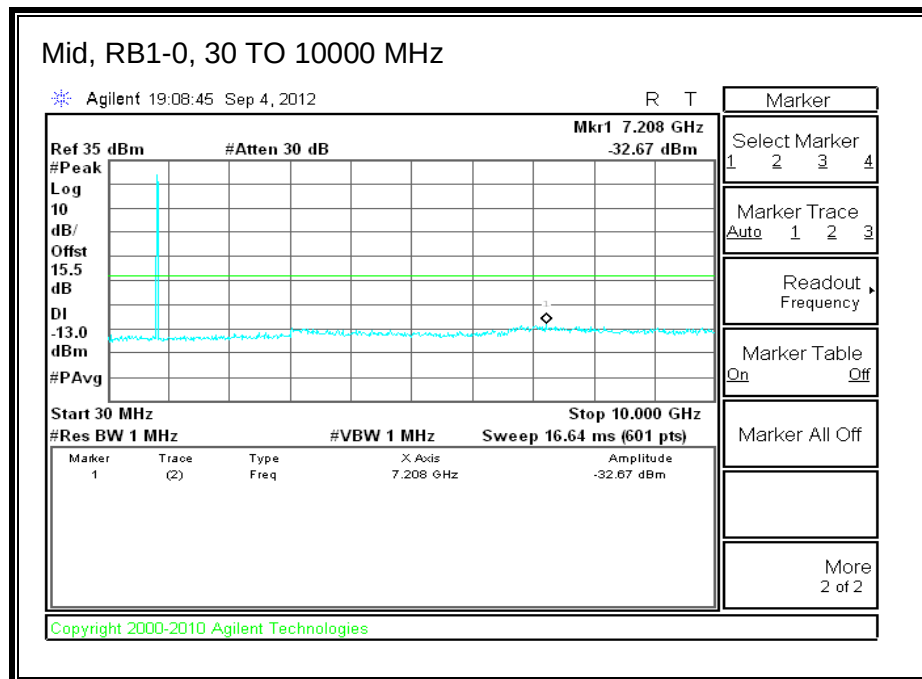
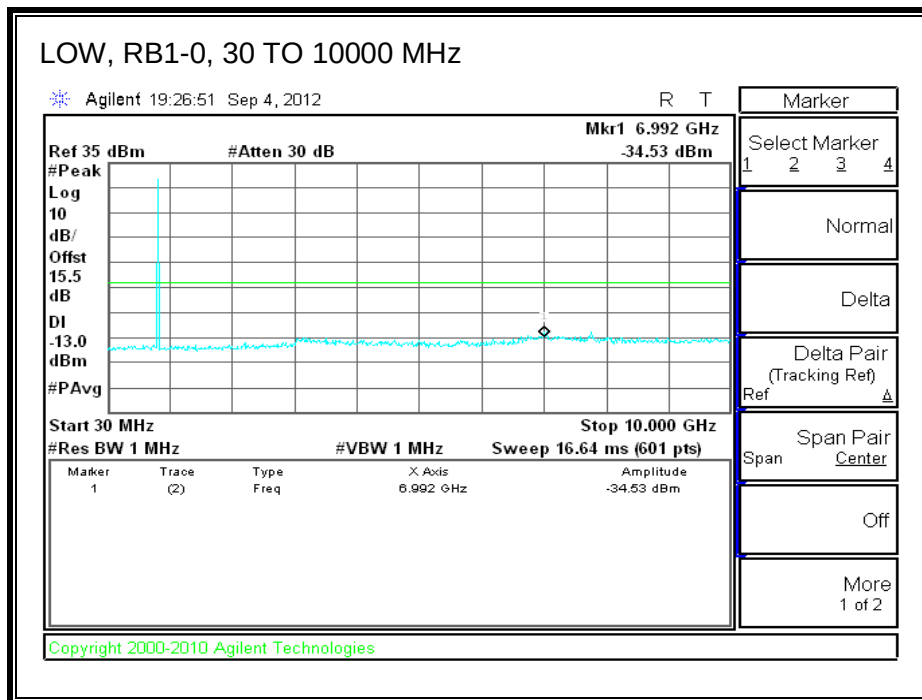
LTE 16QAM

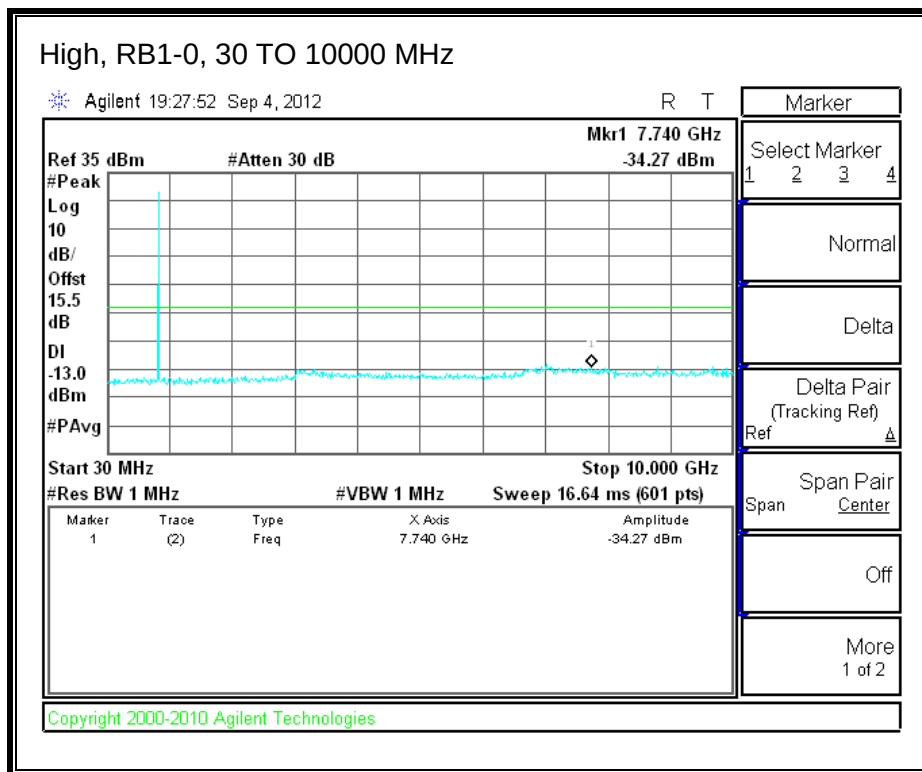




Band 5 (3 MHz BANDWIDTH)

LTE QPSK





LTE 16QAM

