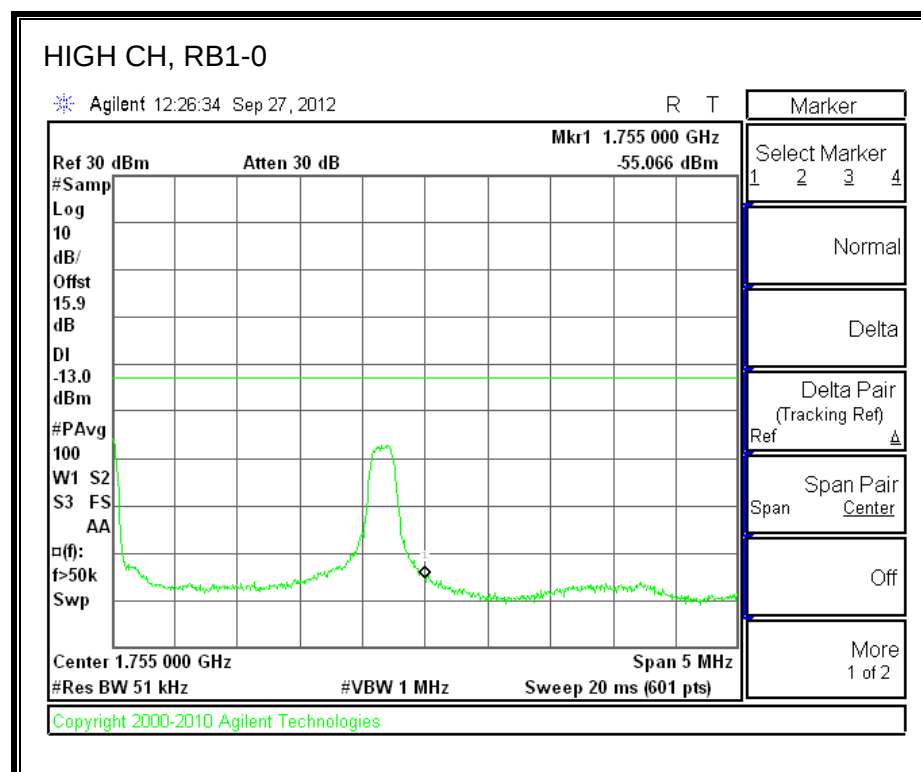
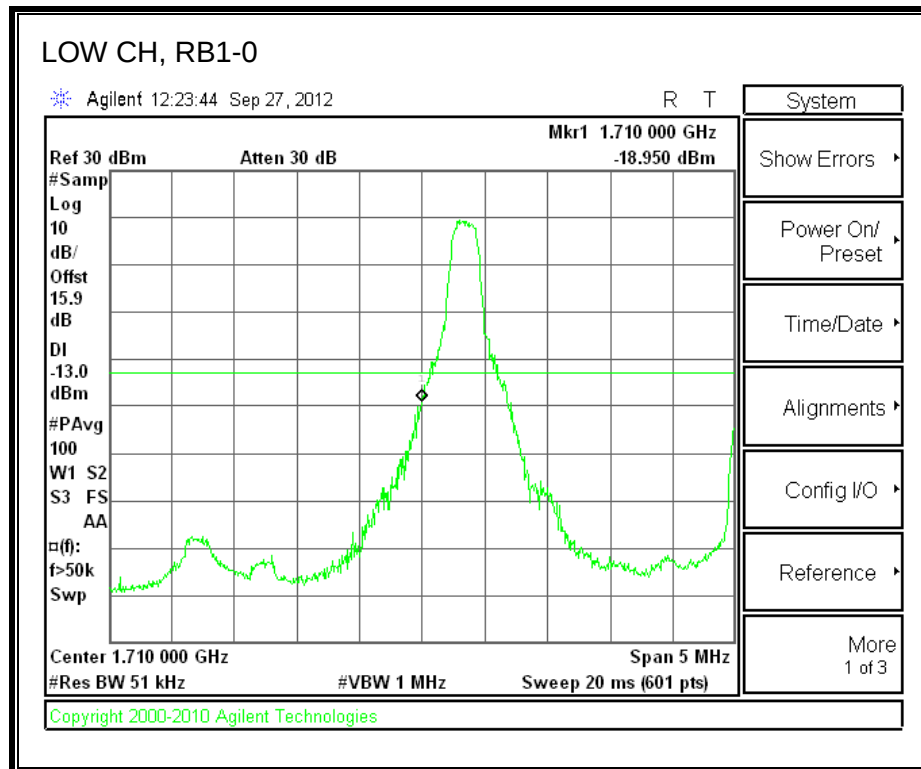
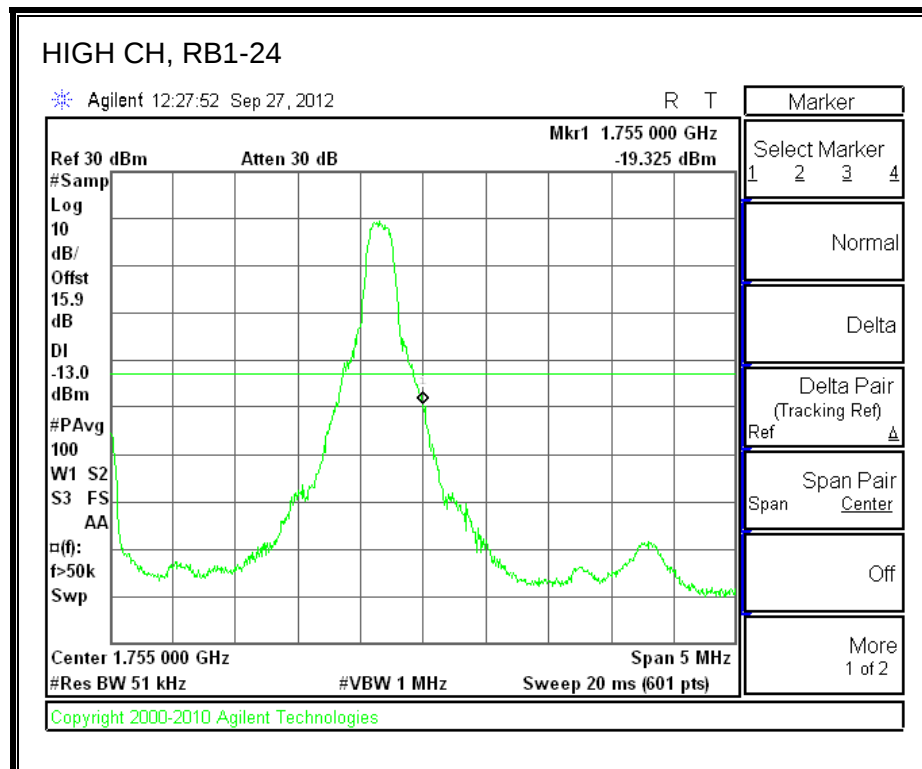
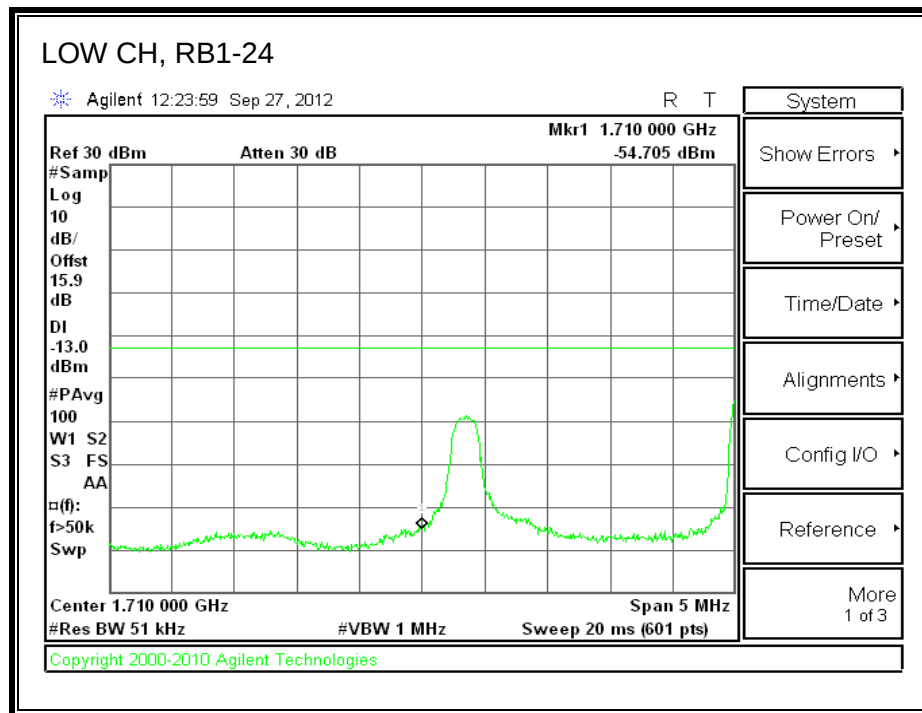
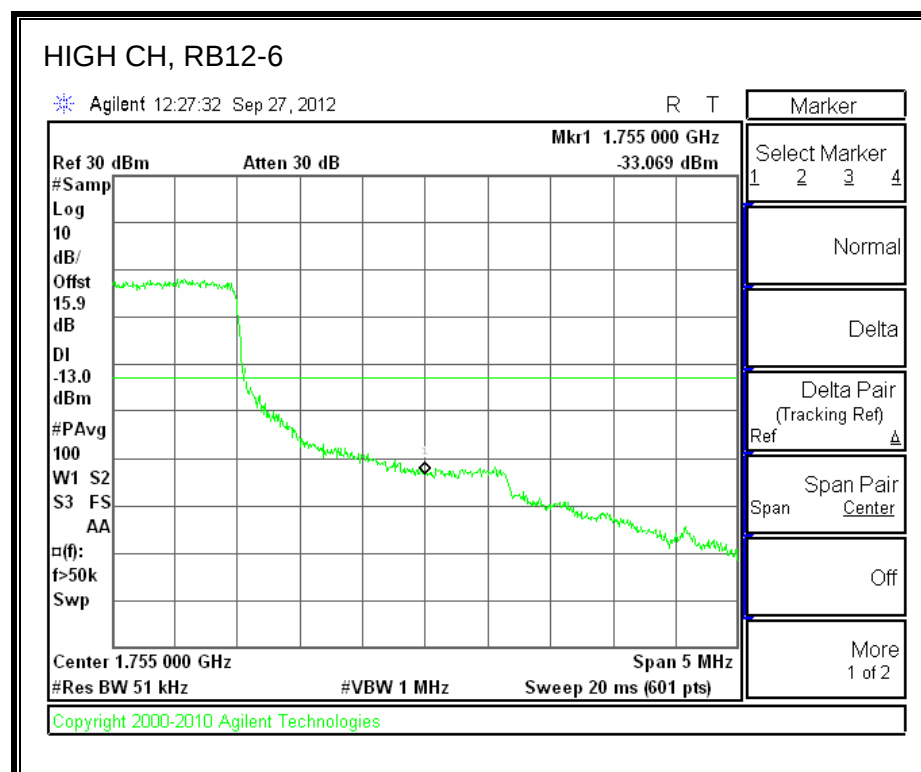
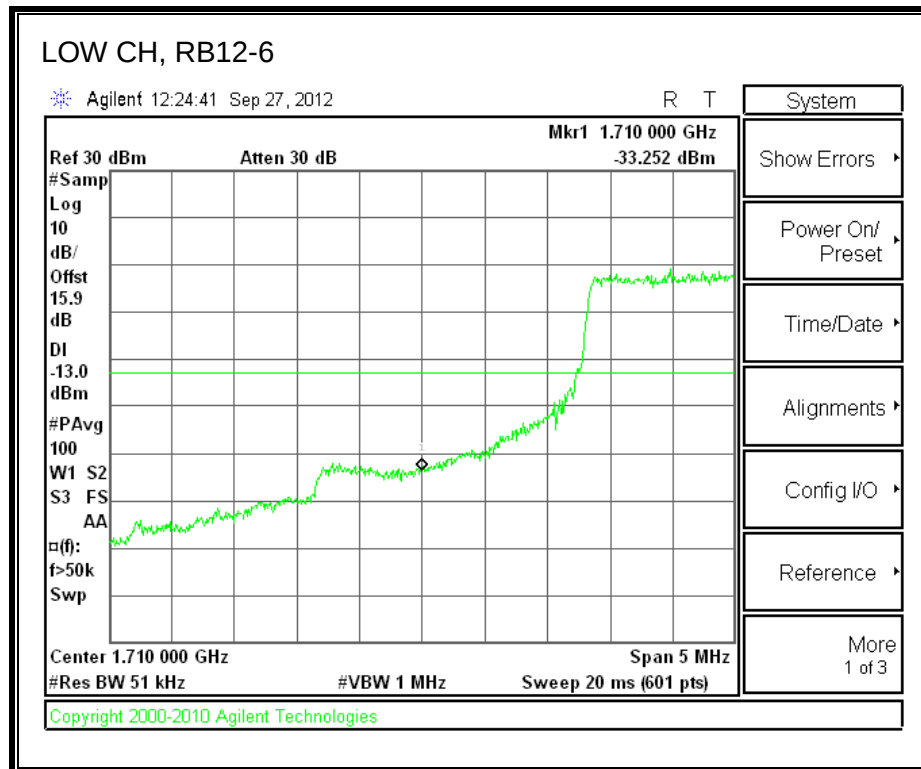
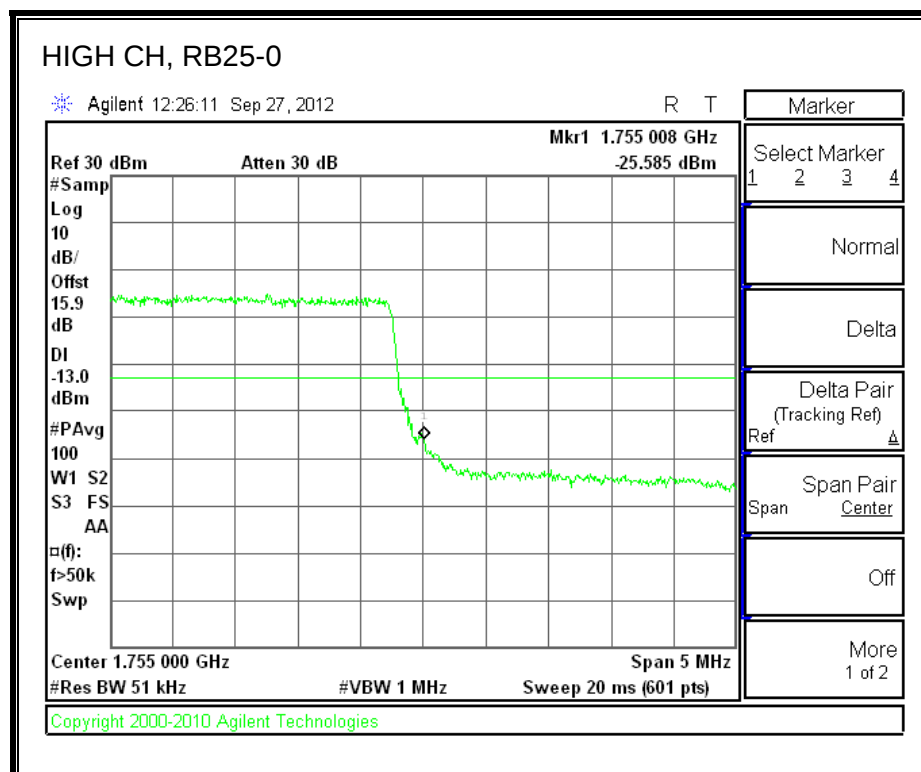
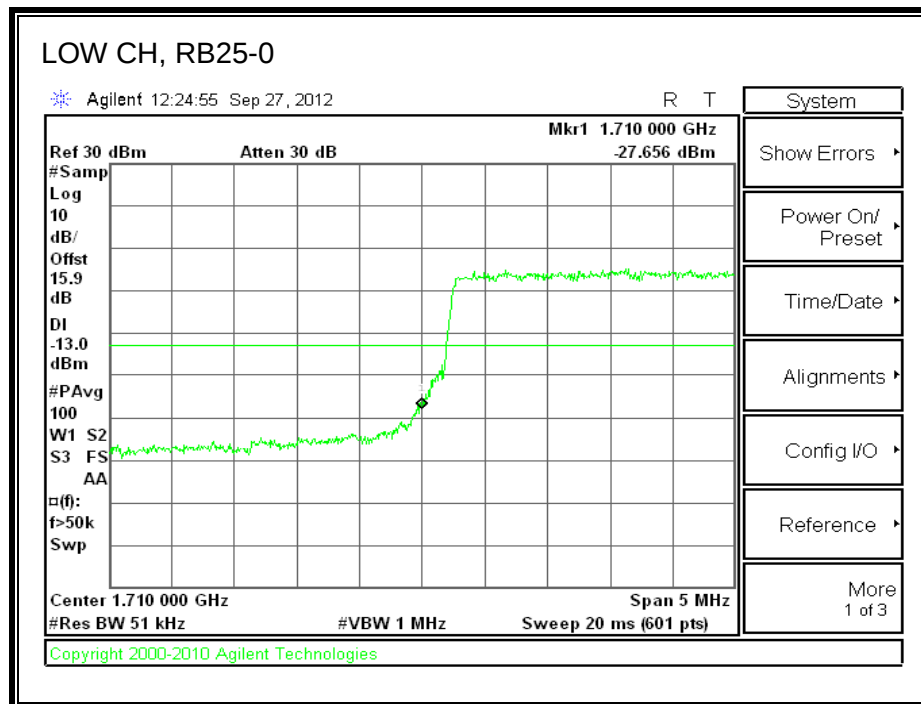
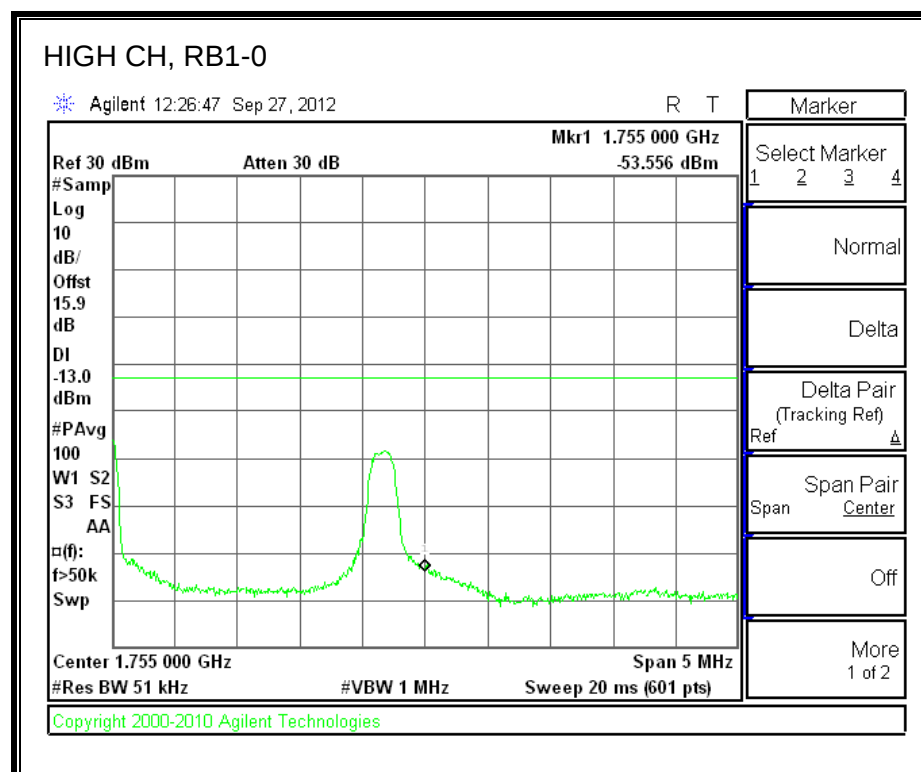
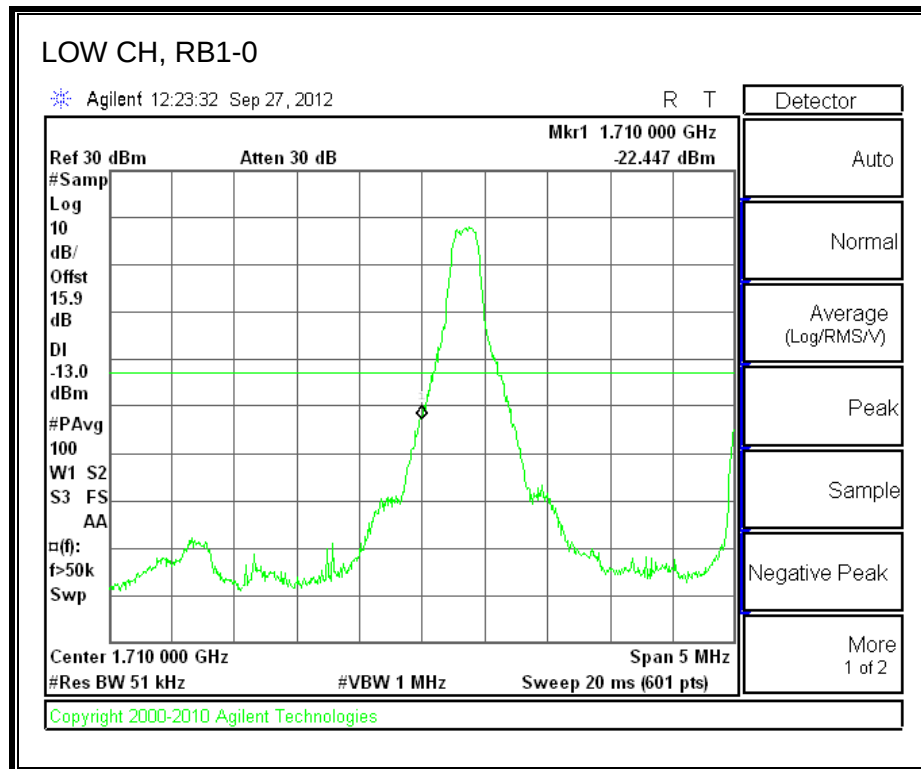


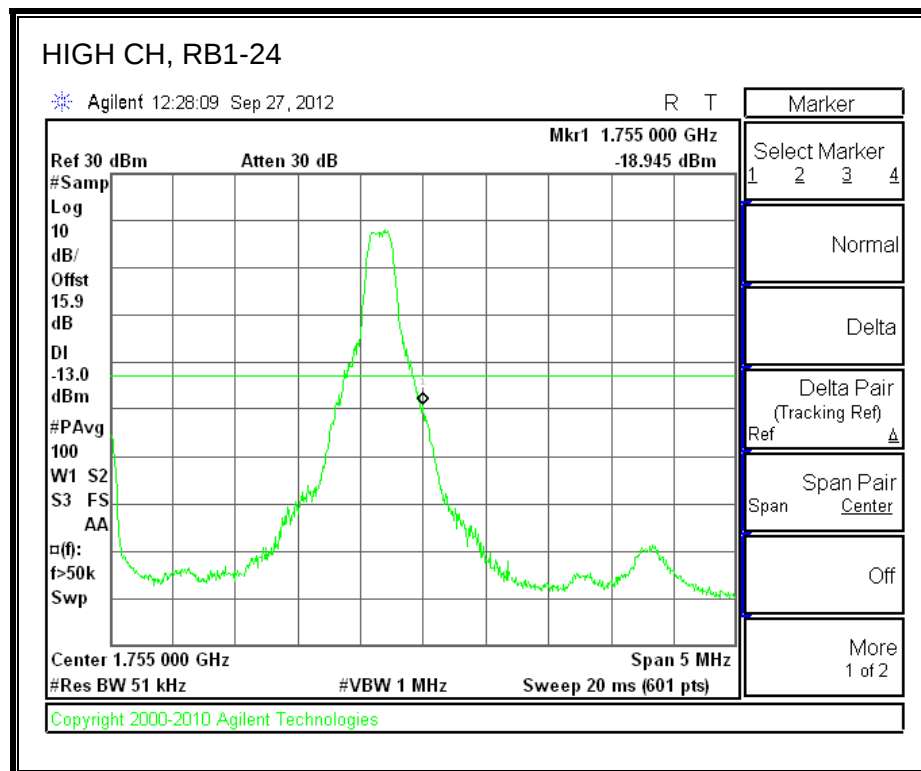
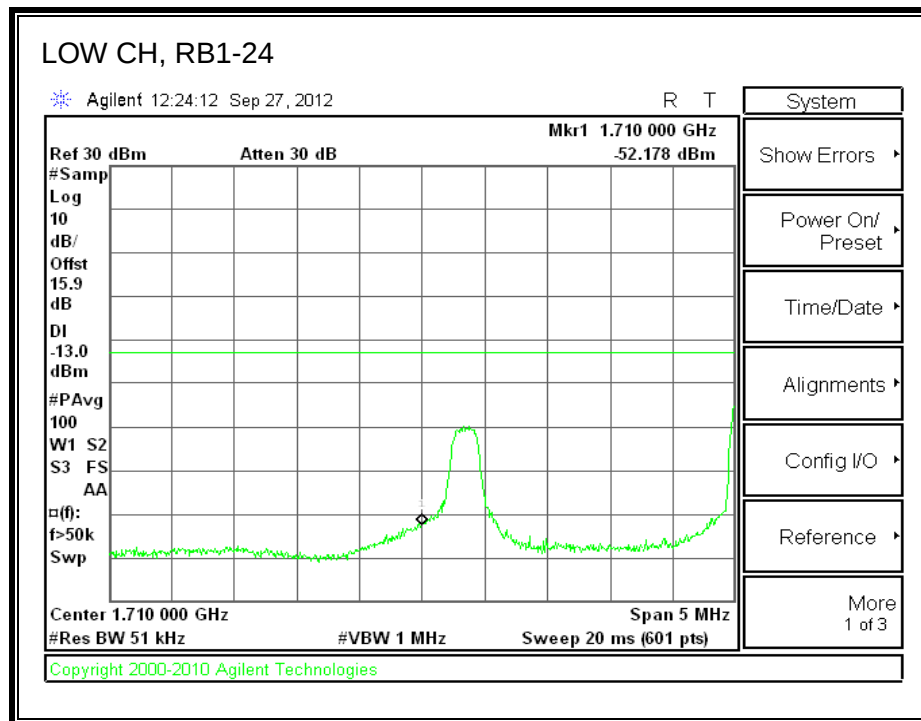
QPSK Band 4 (5 MHz BANDWIDTH)

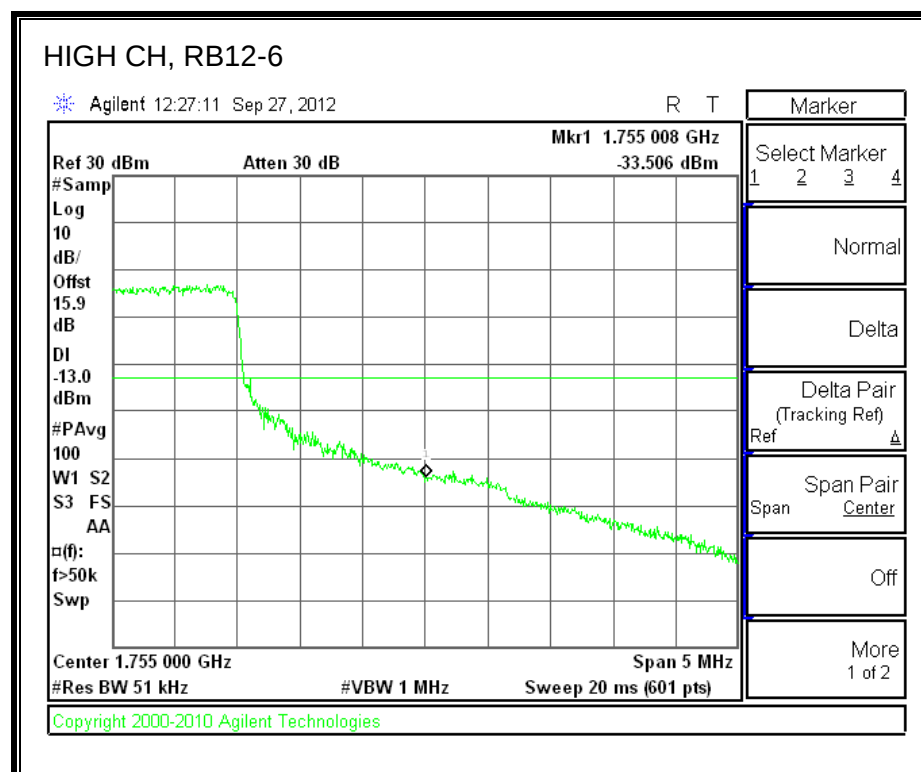
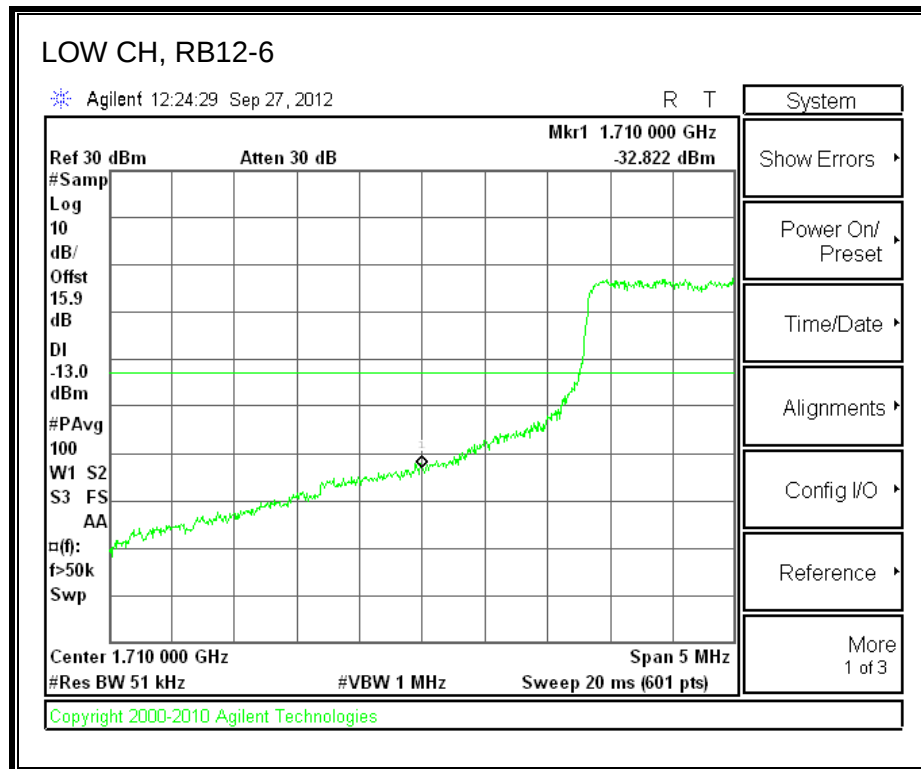


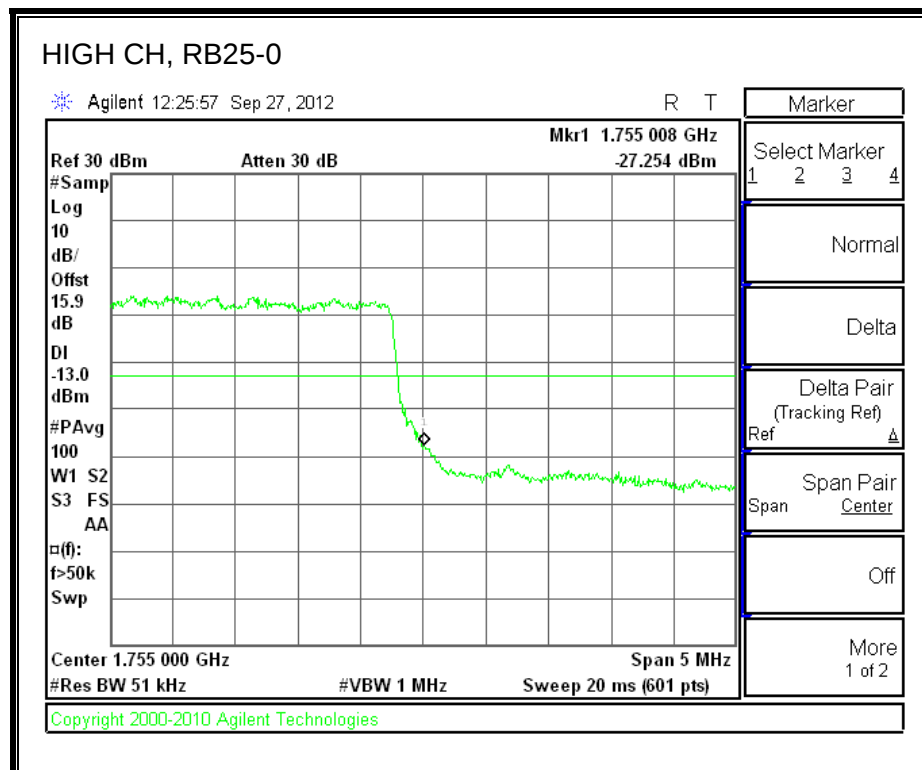
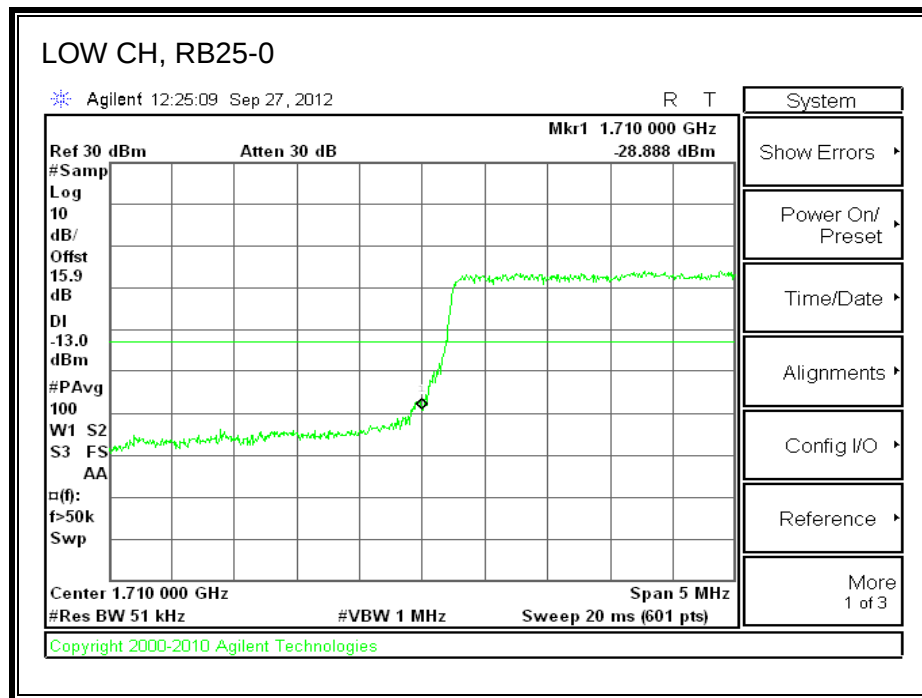


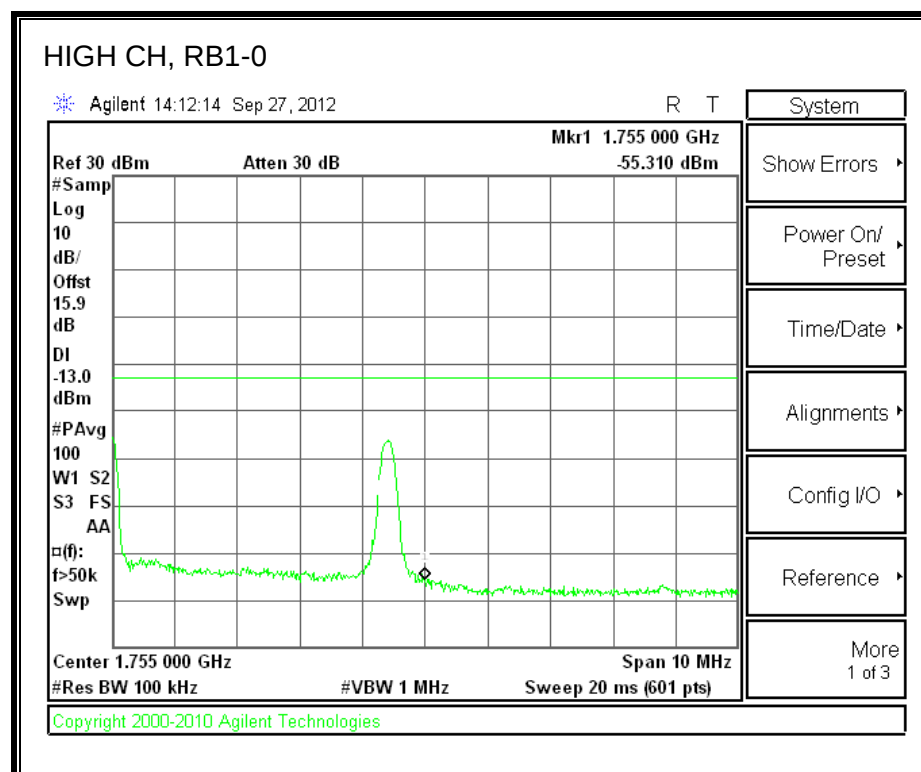
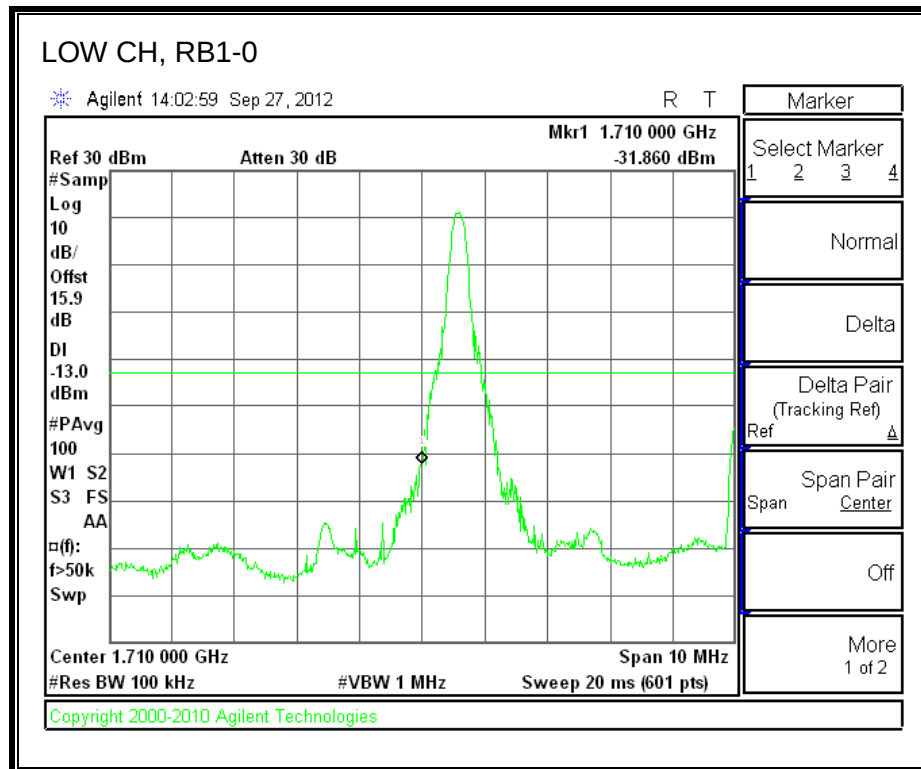


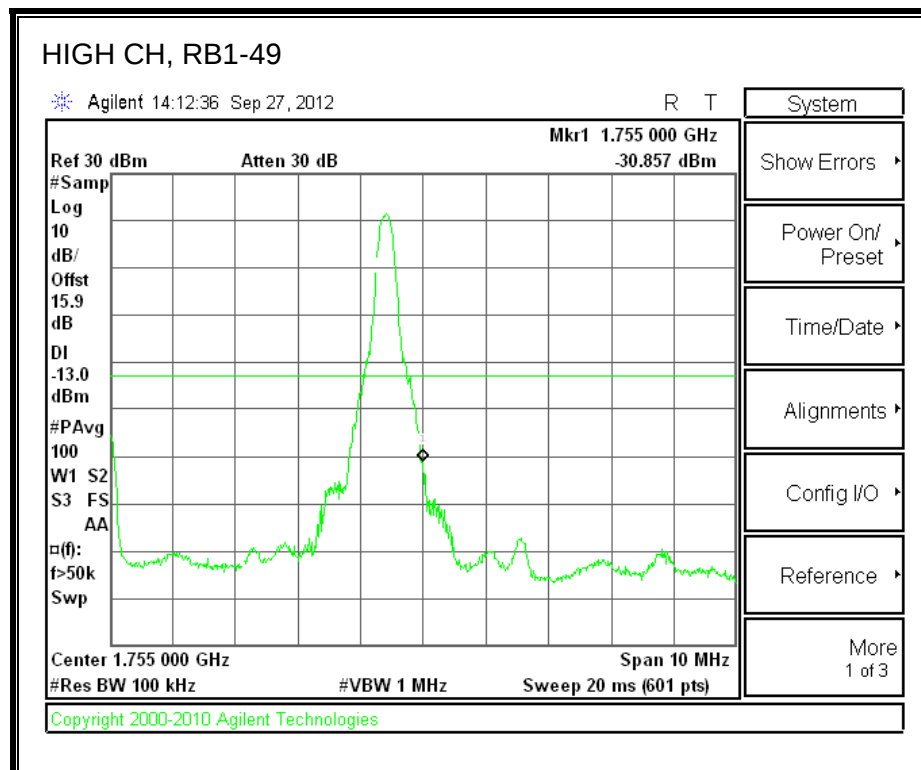
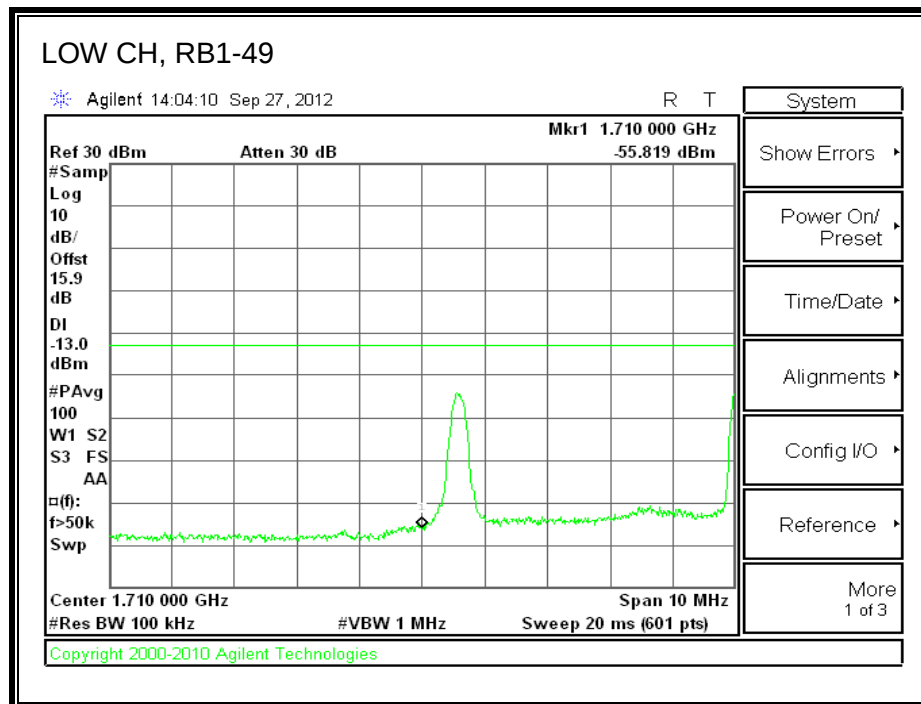
16QAM Band 4 (5 MHz BANDWIDTH)

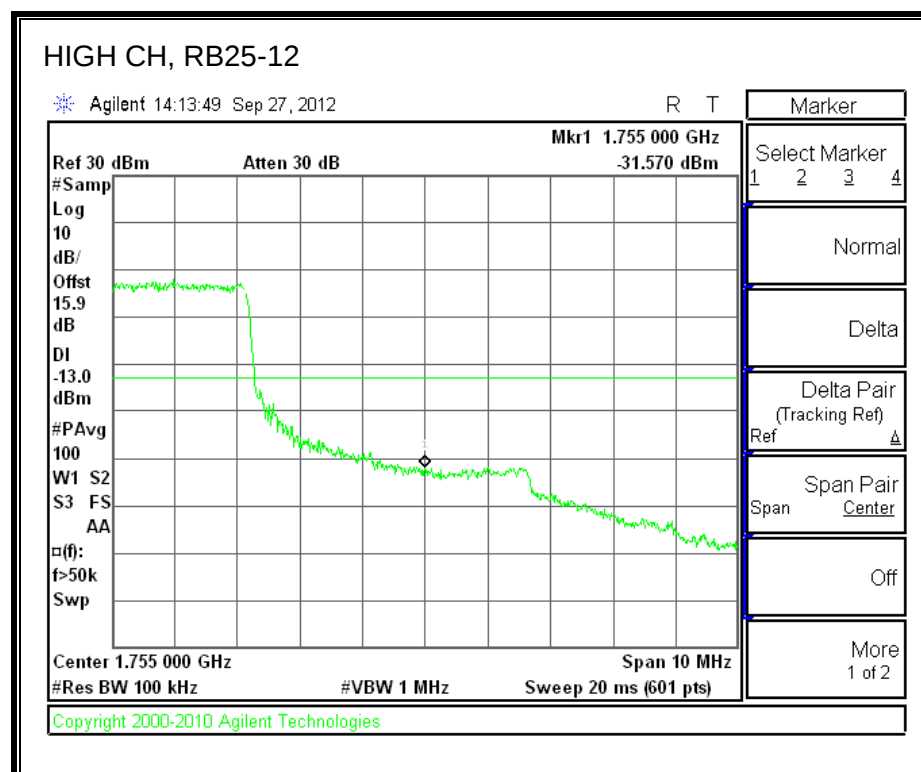
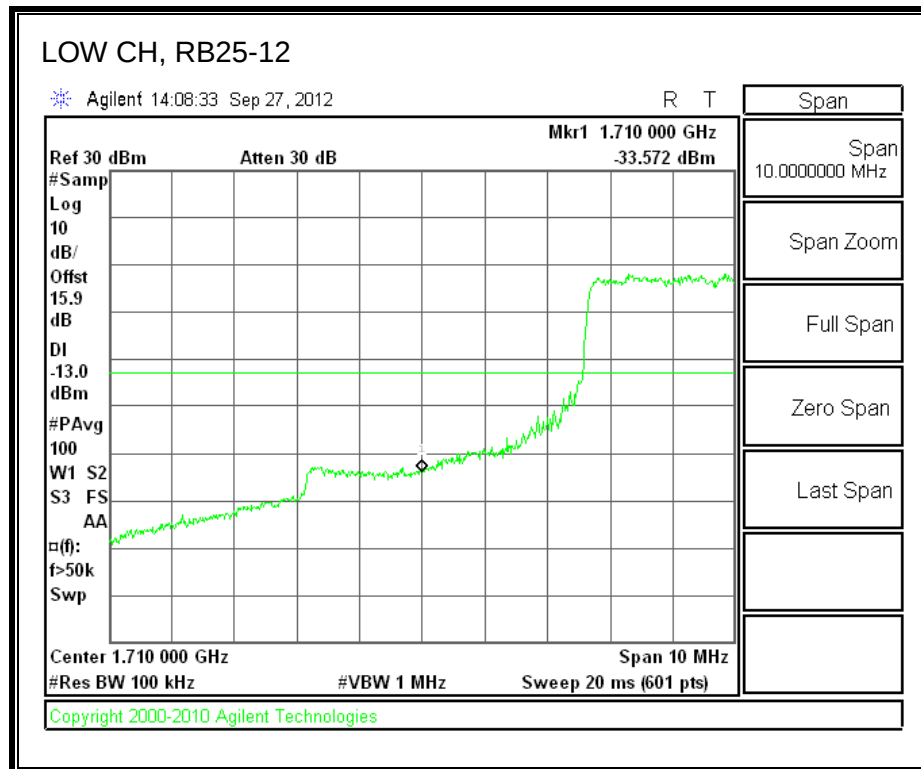


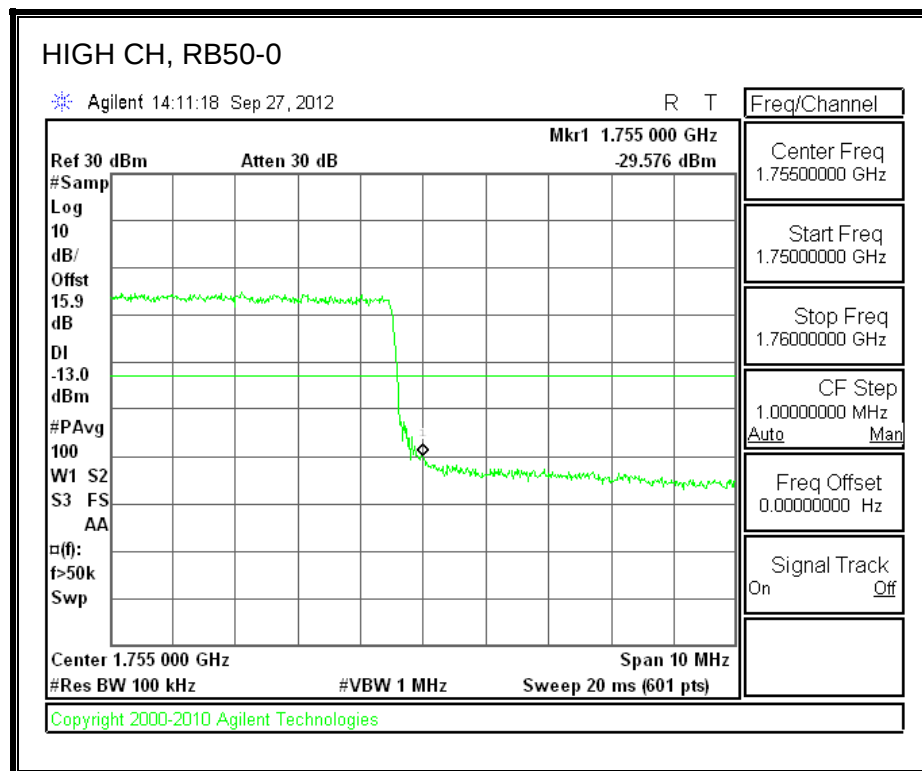
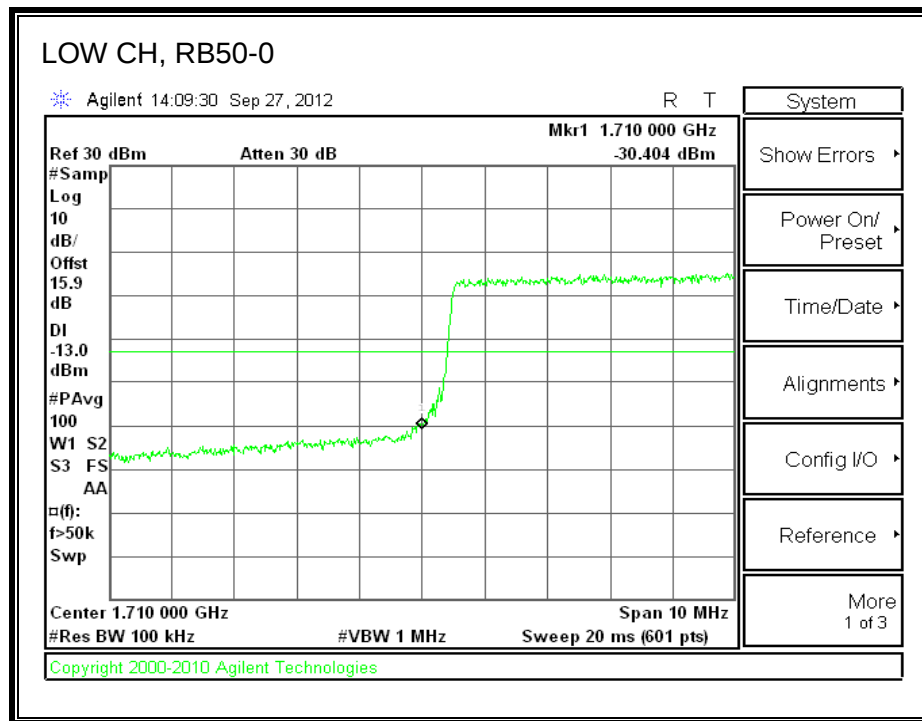




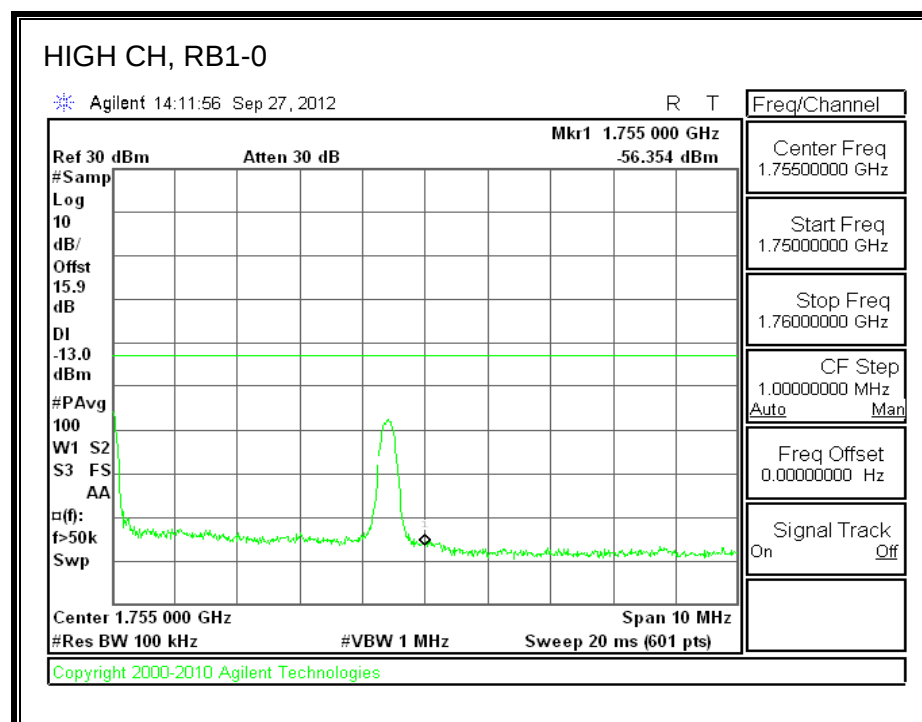
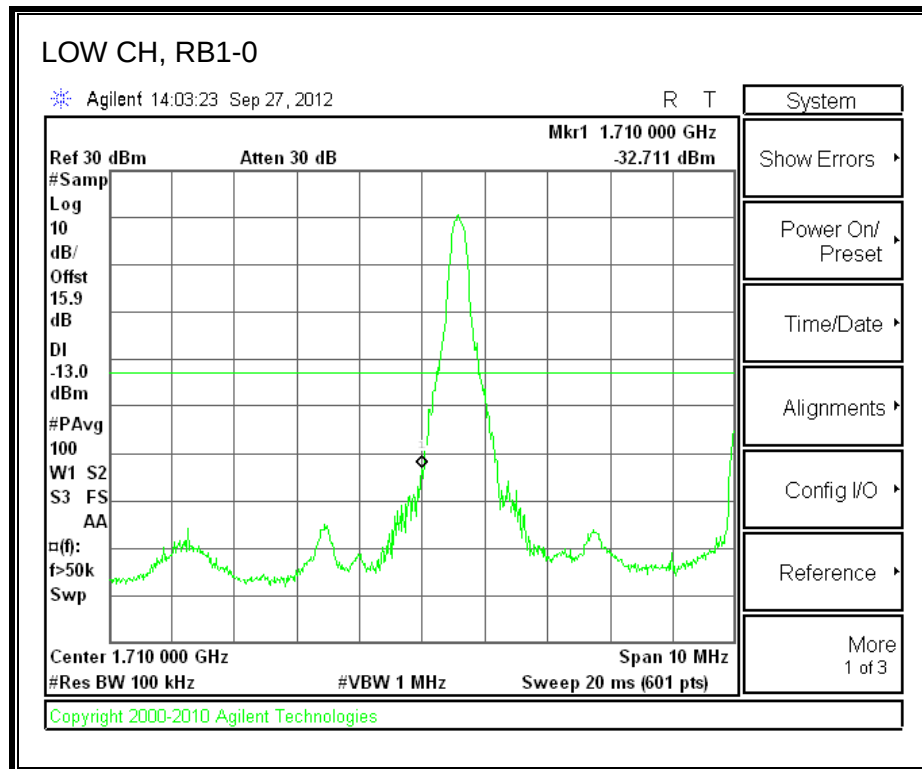
QPSK Band 4 (10 MHz BANDWIDTH)

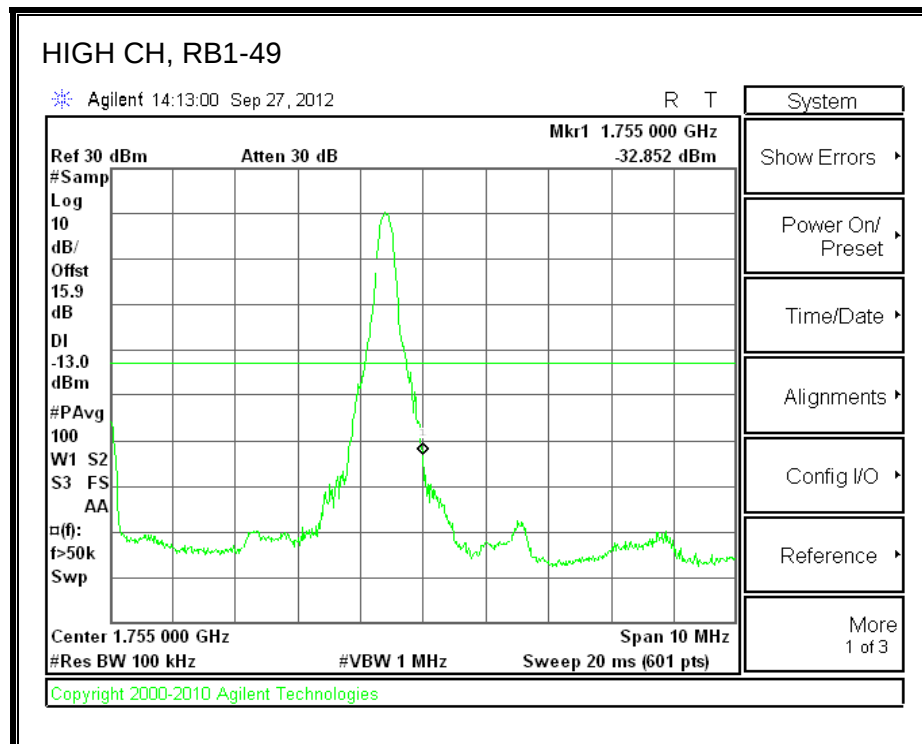
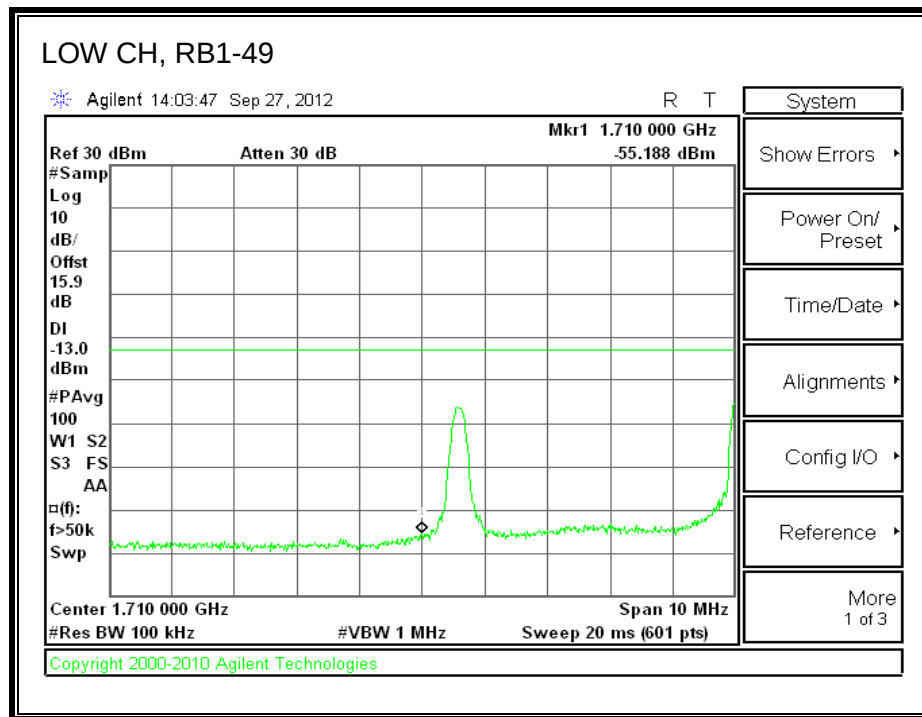


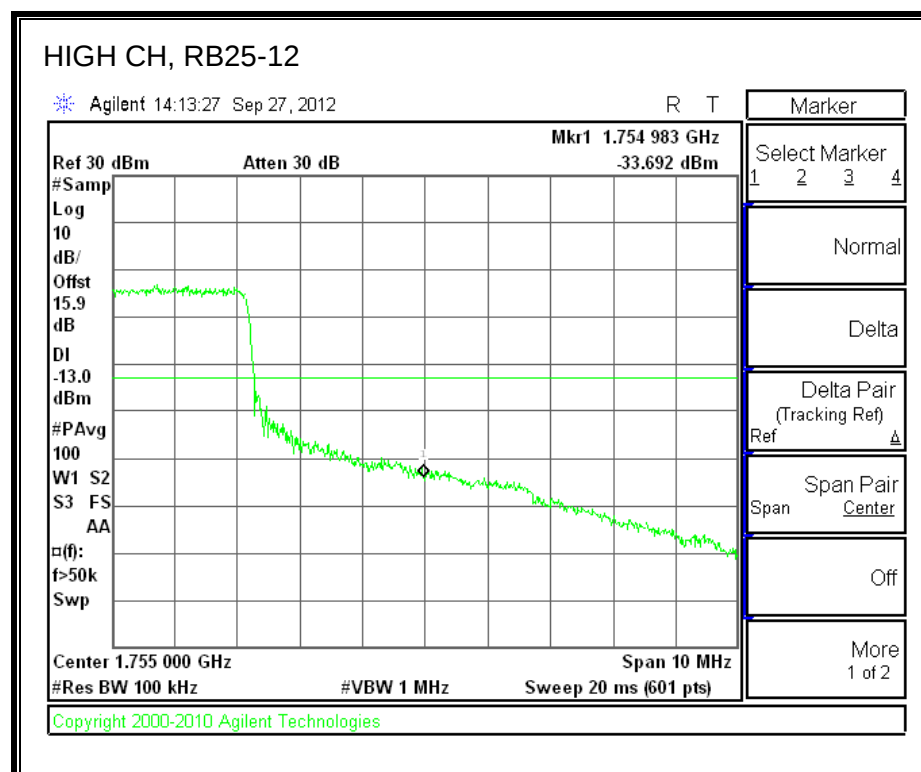
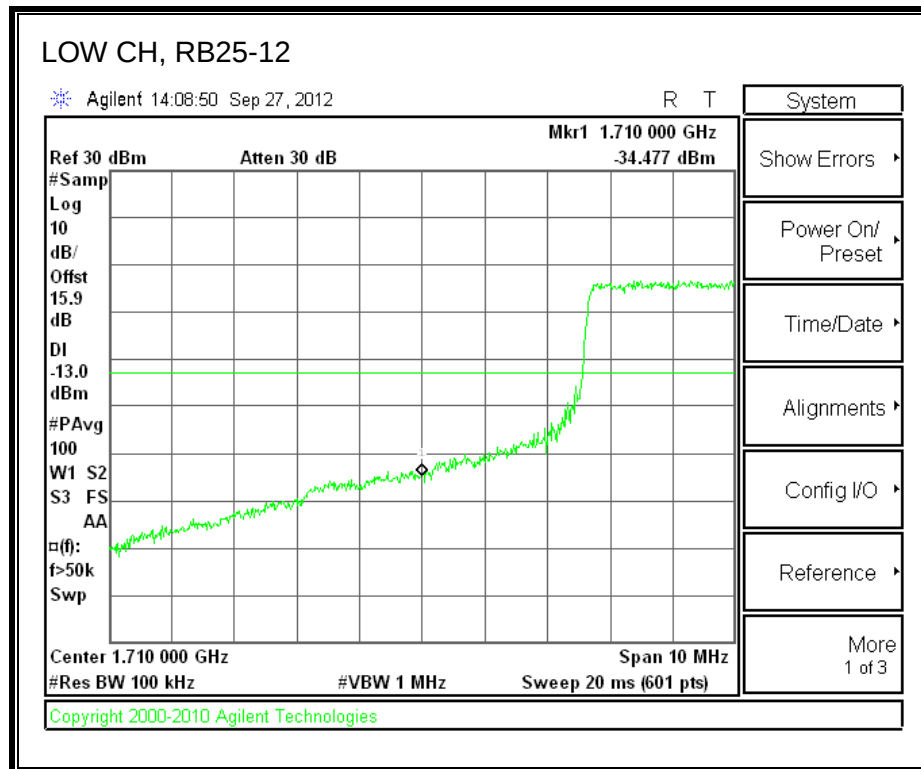


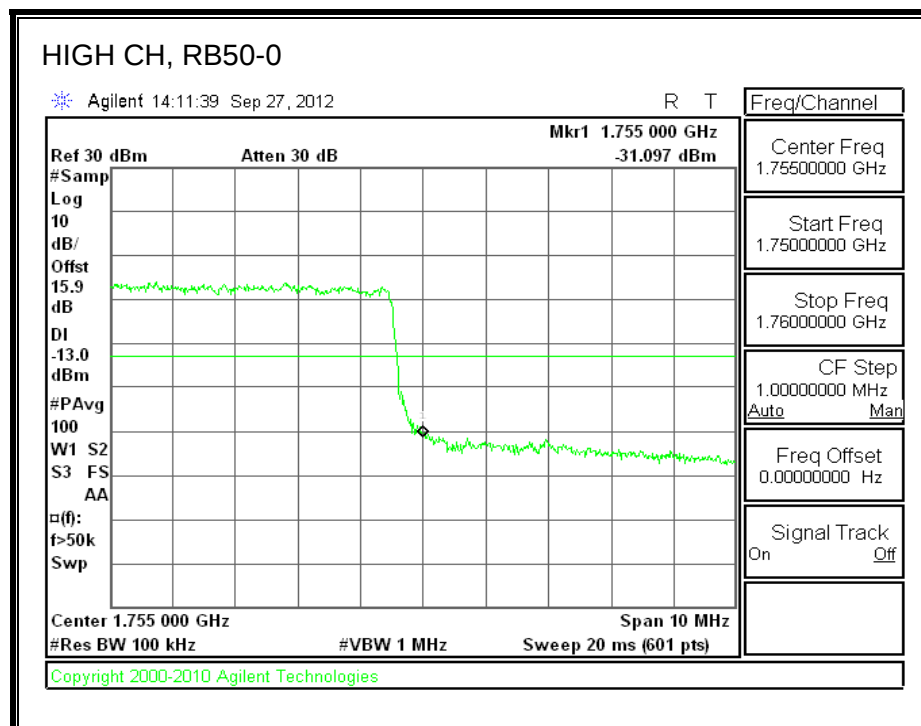
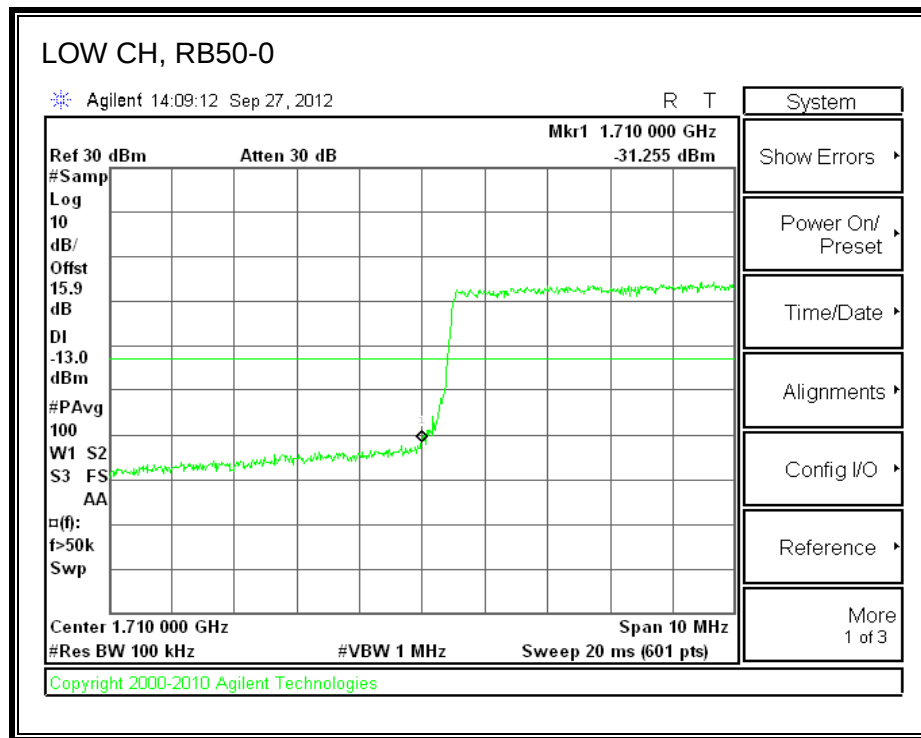


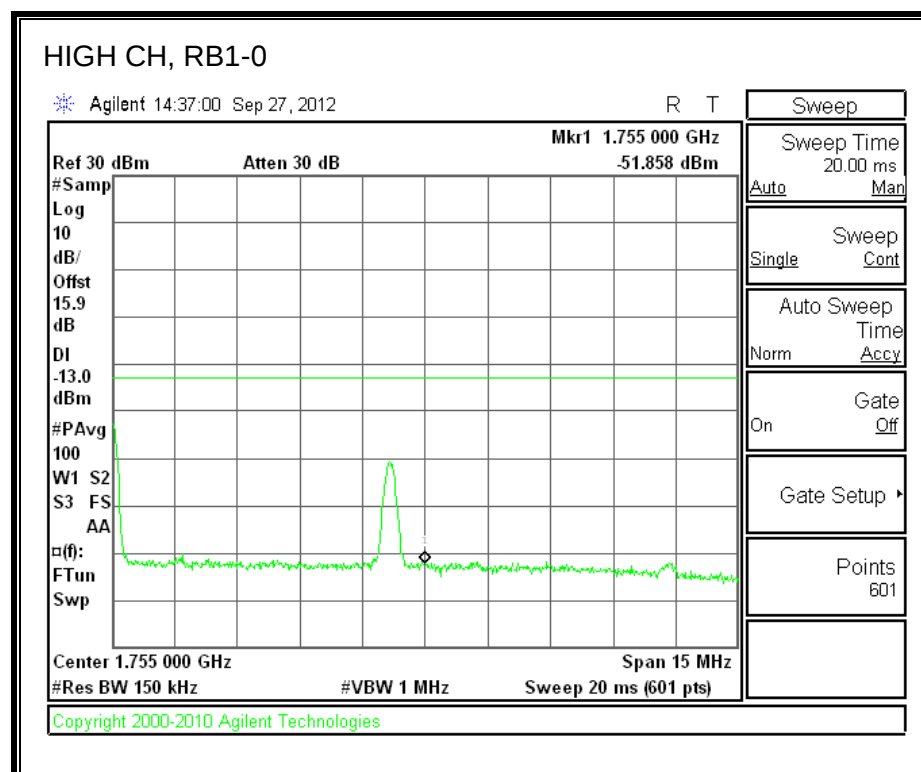
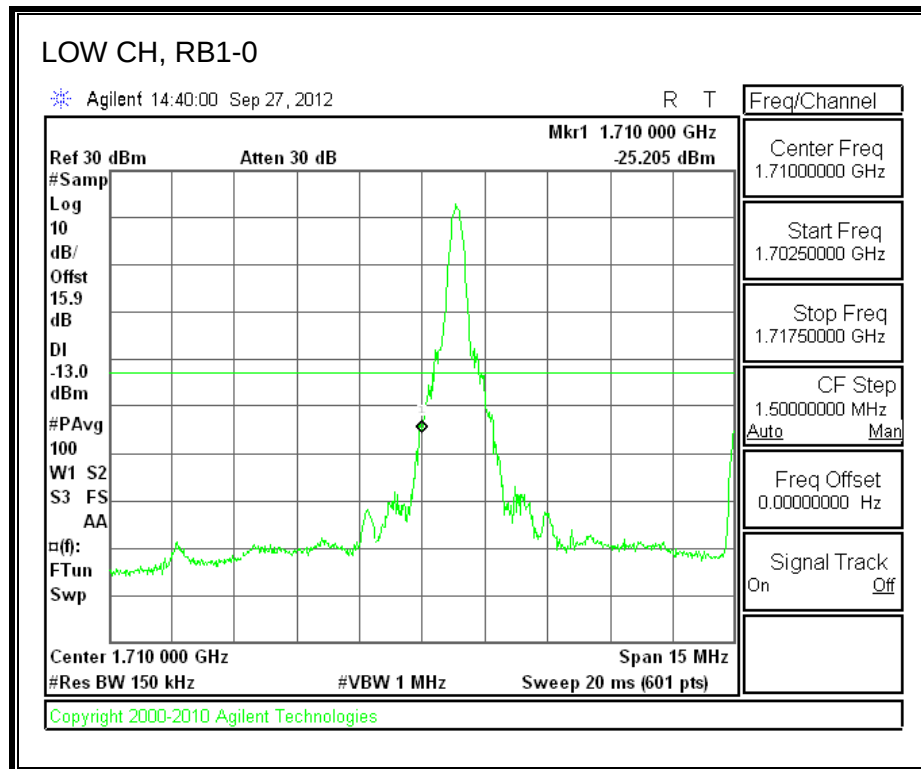
16QAM Band 4 (10 MHz BANDWIDTH)

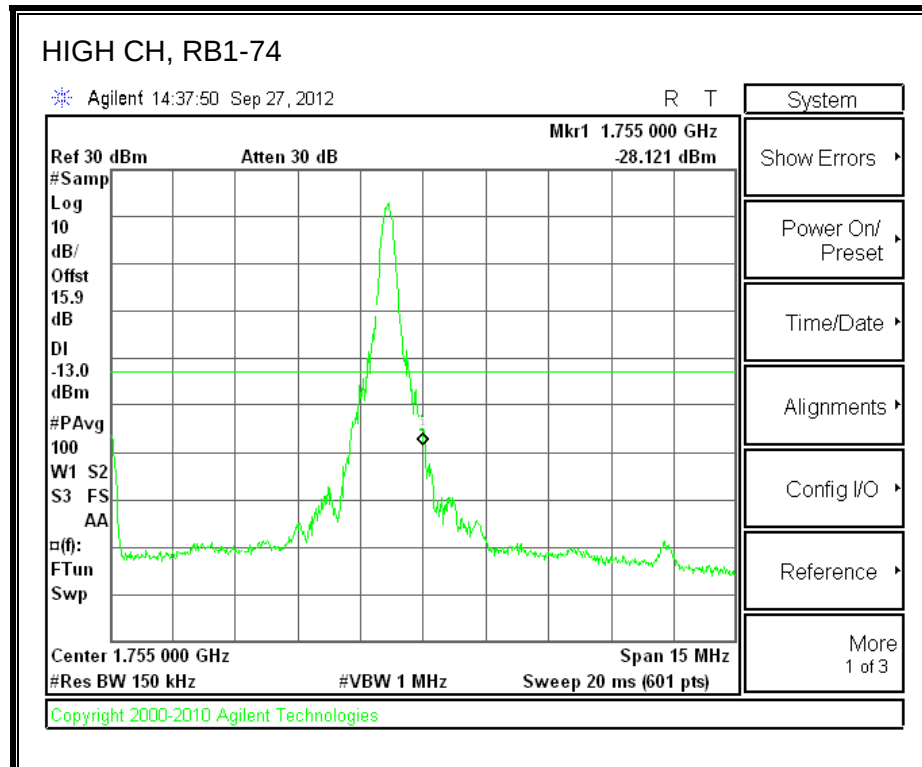
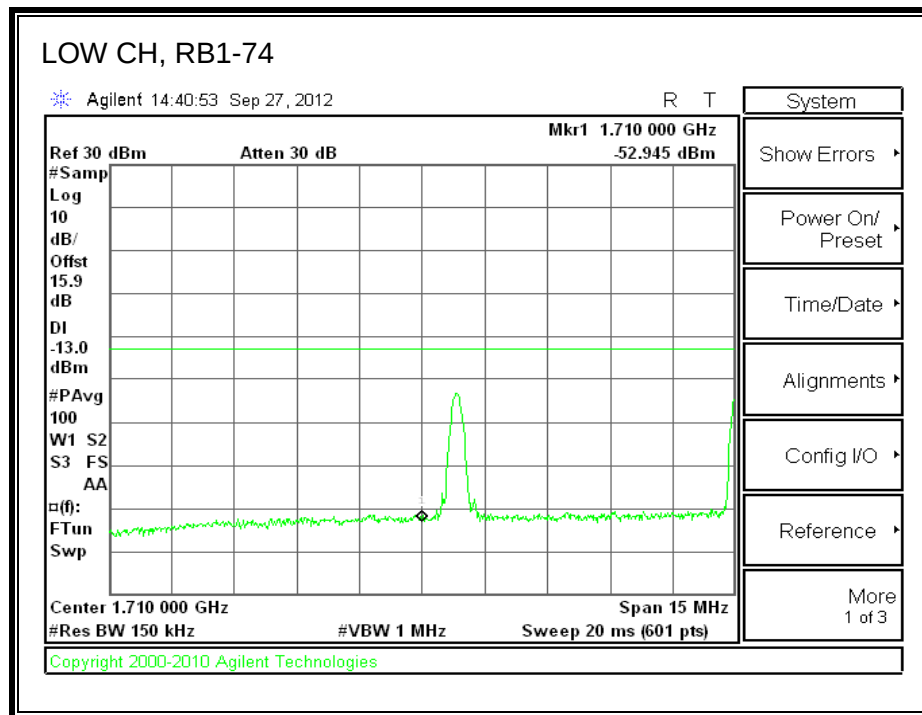


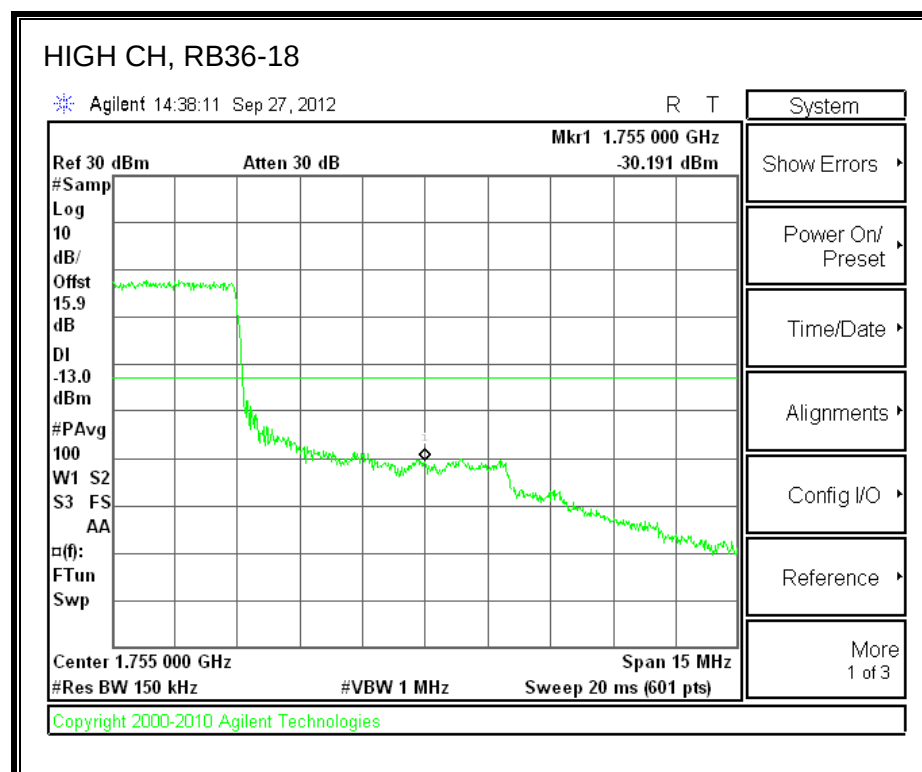
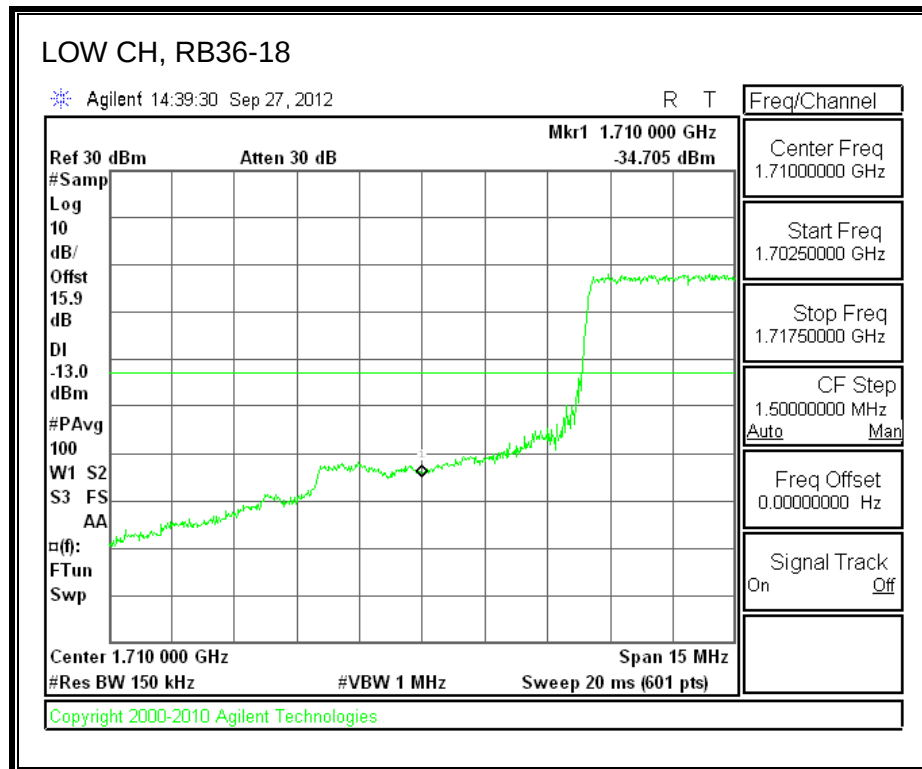


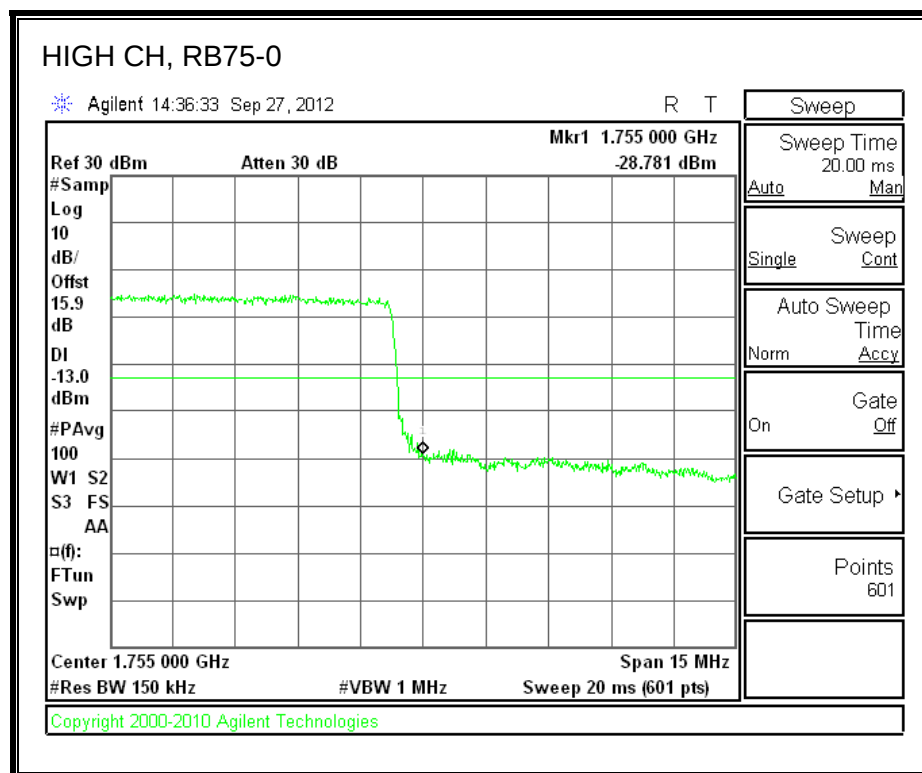
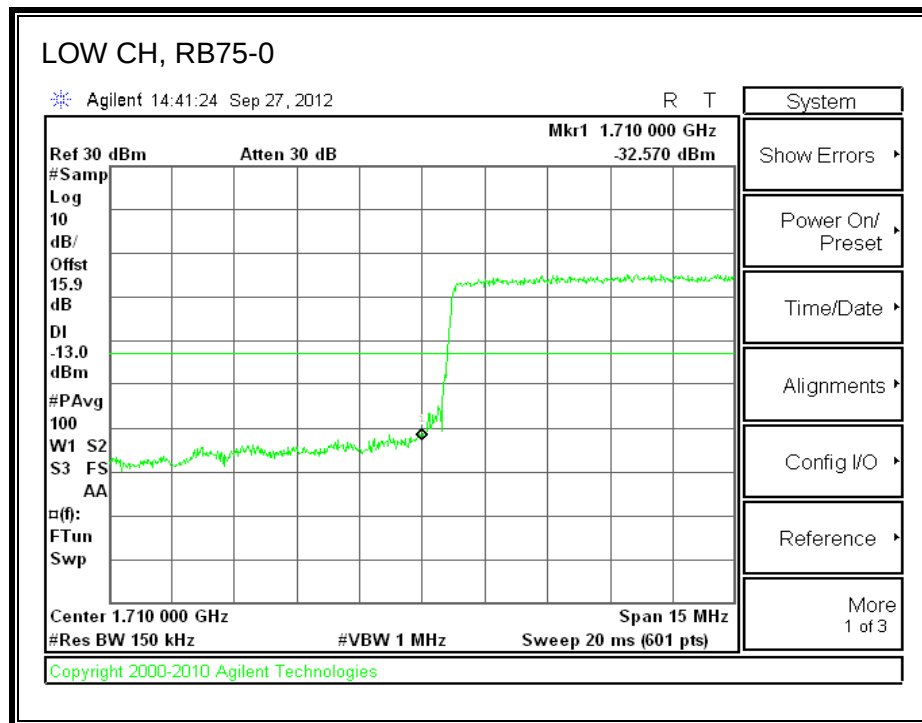




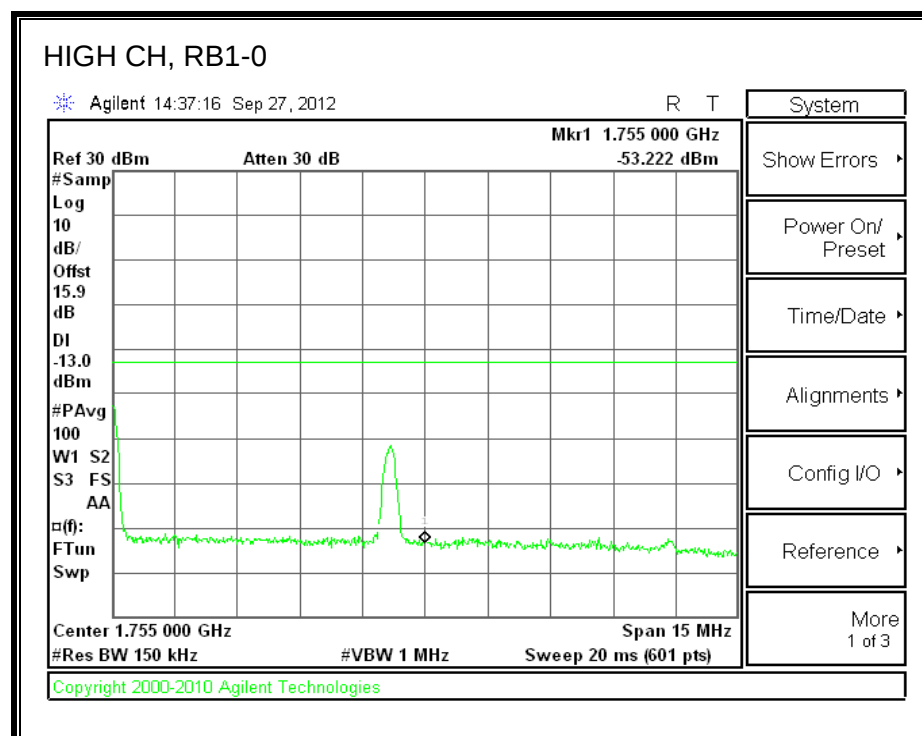
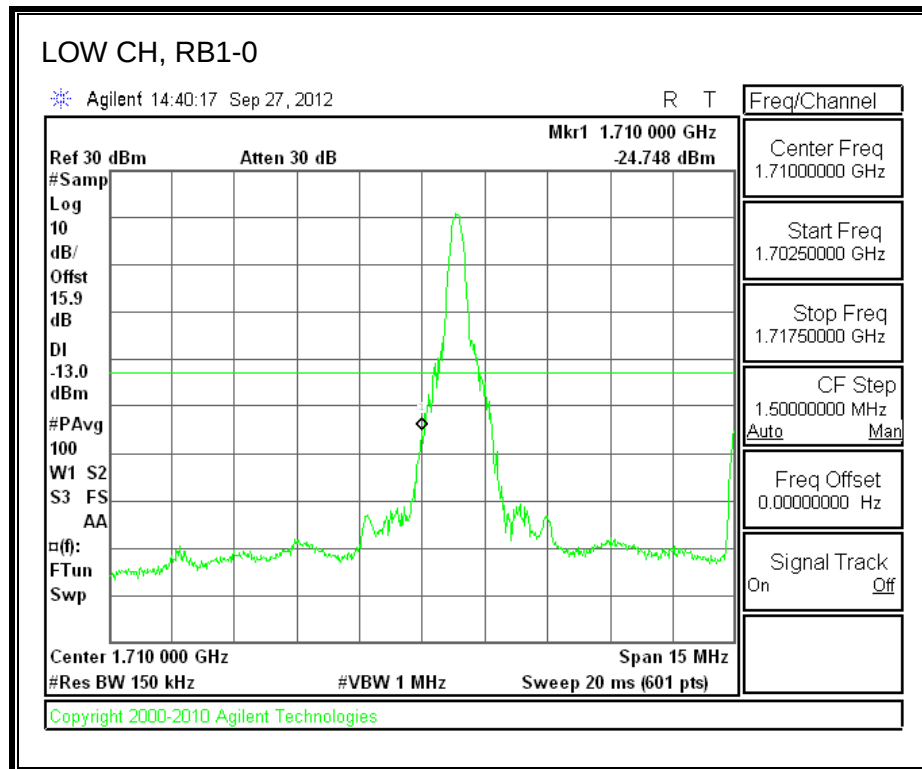
QPSK Band 4 (15 MHz BANDWIDTH)

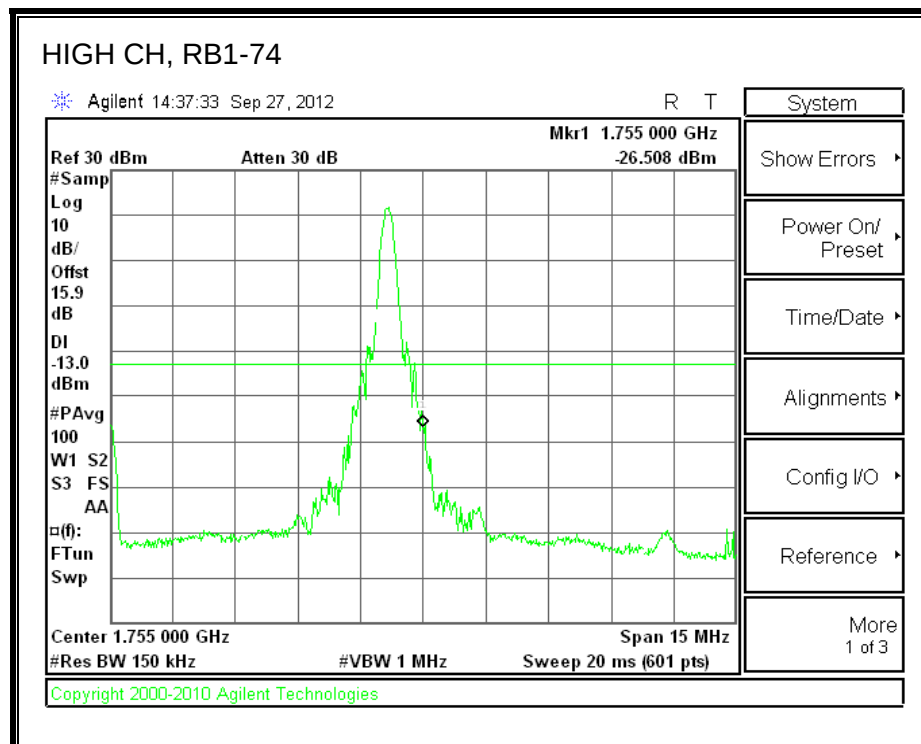
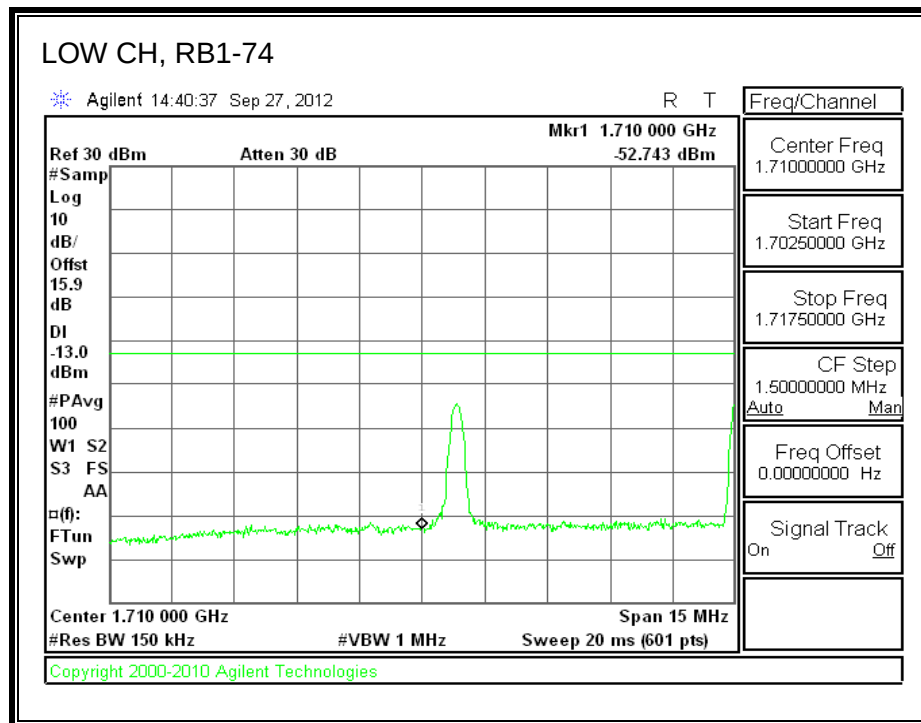


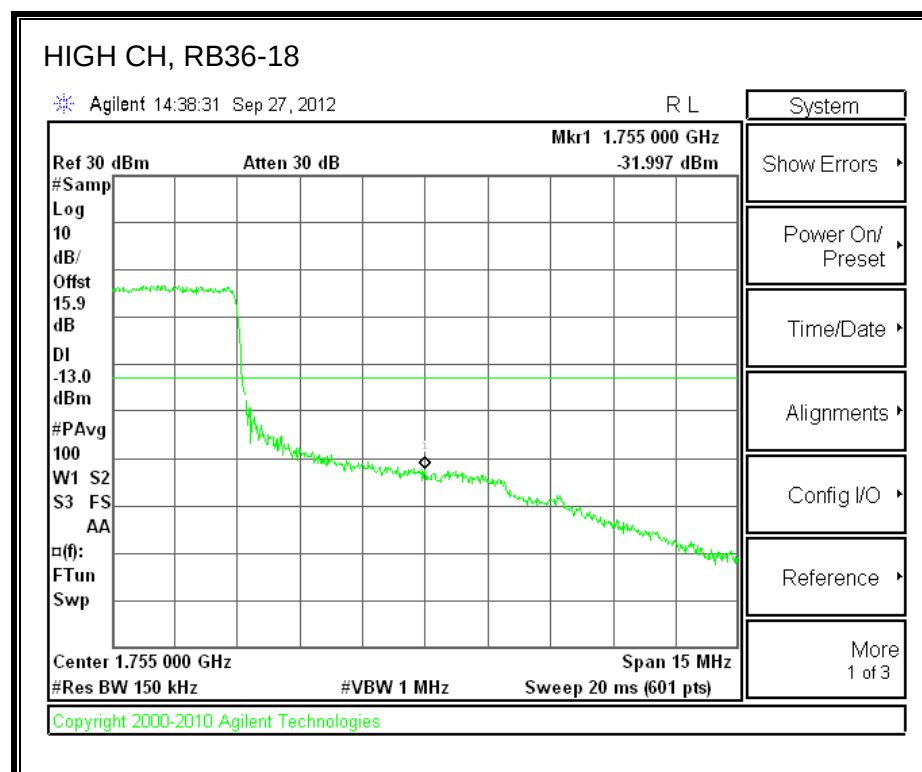
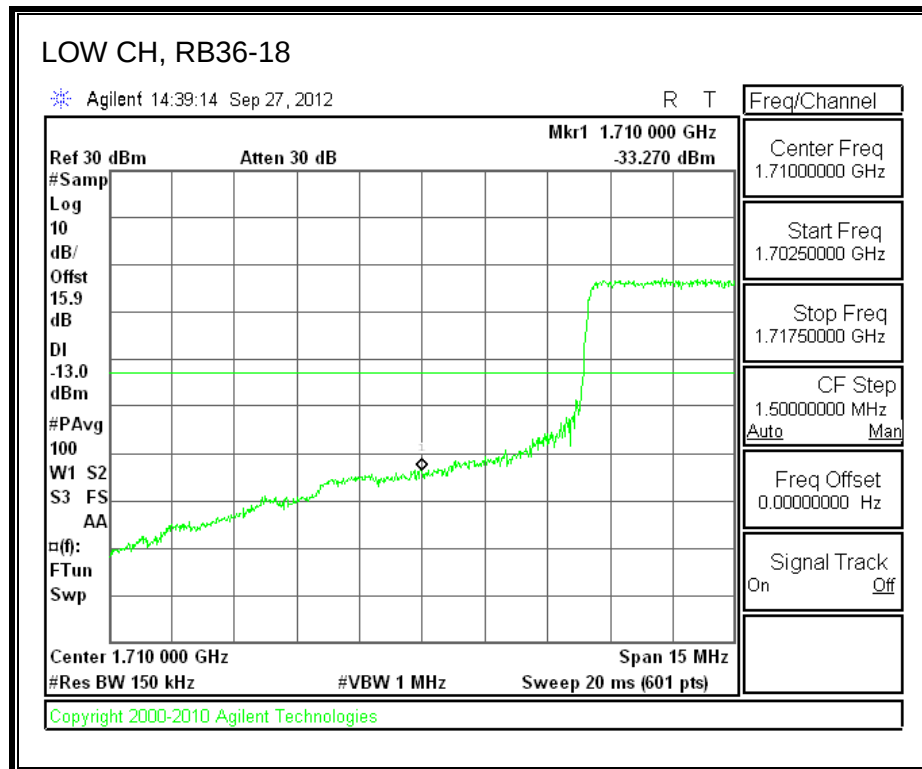


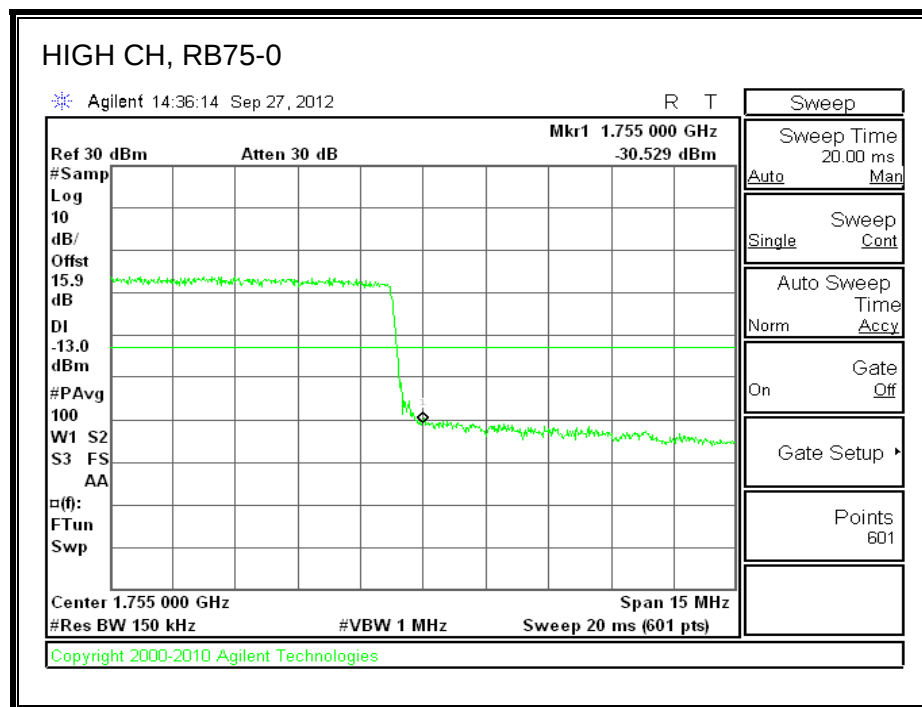
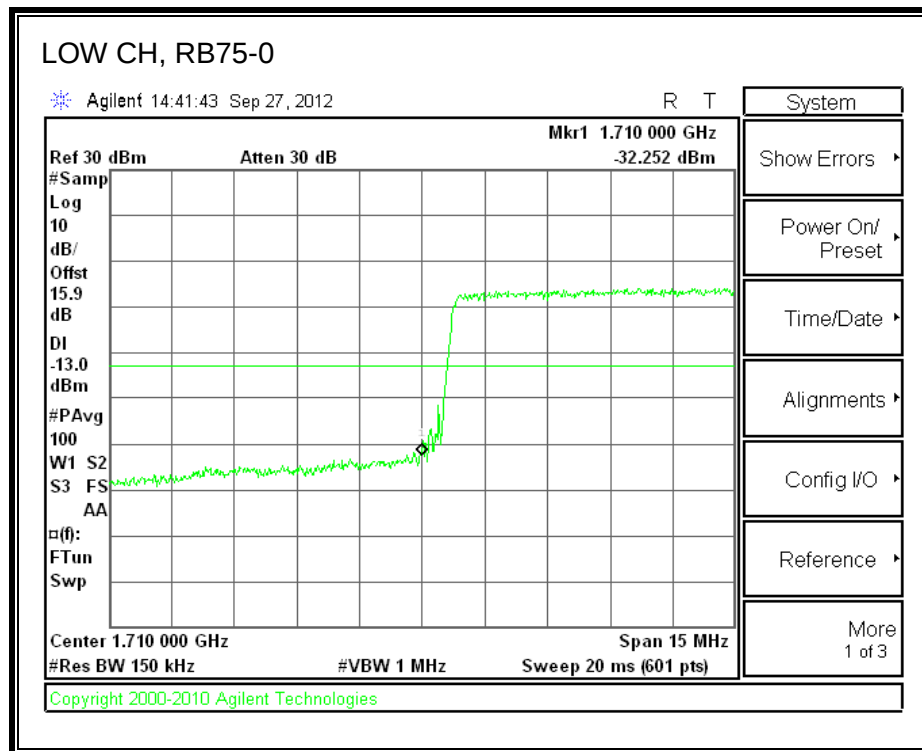


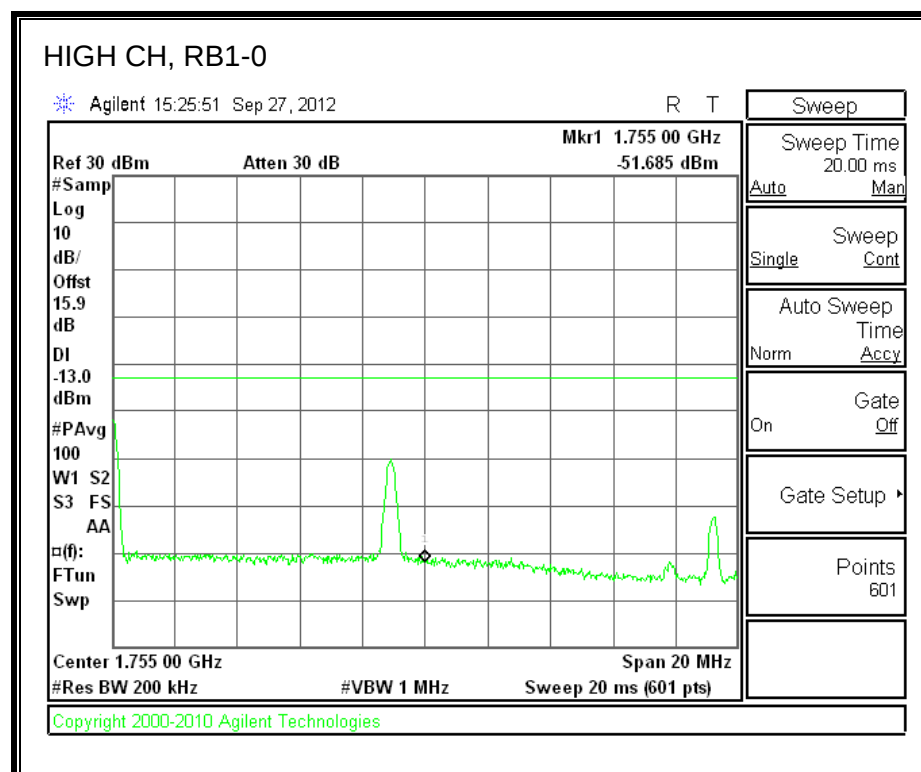
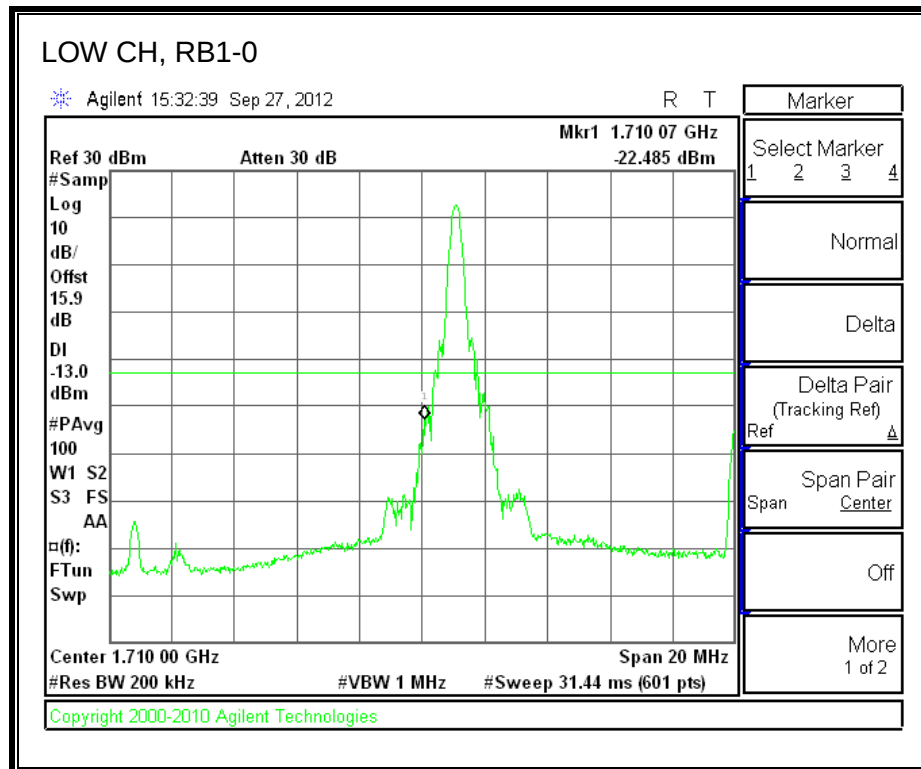
16QAM Band 4 (15 MHz BANDWIDTH)

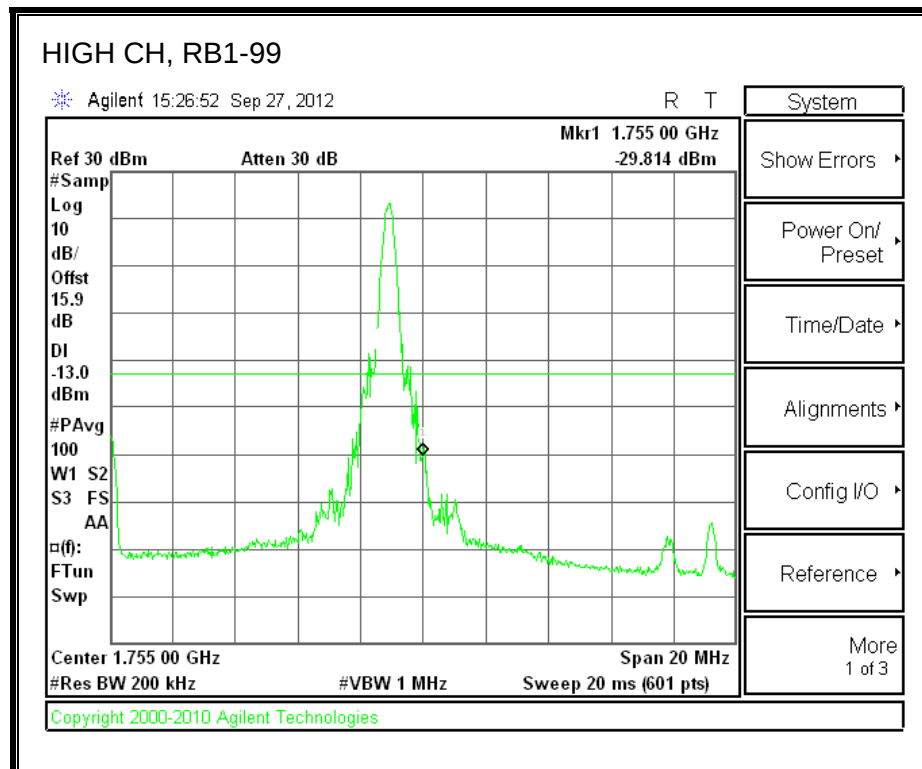
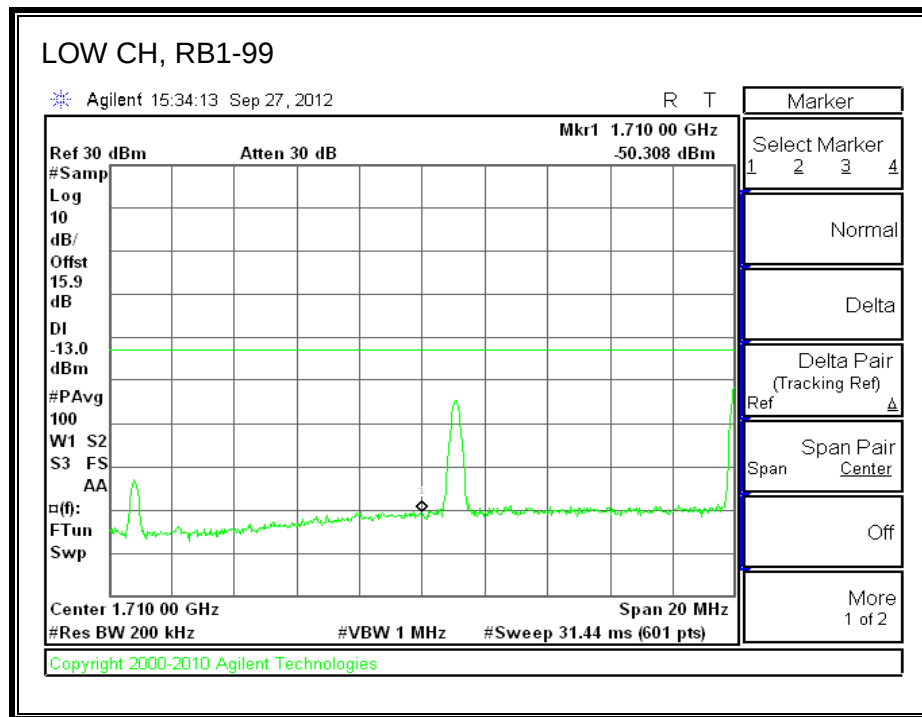


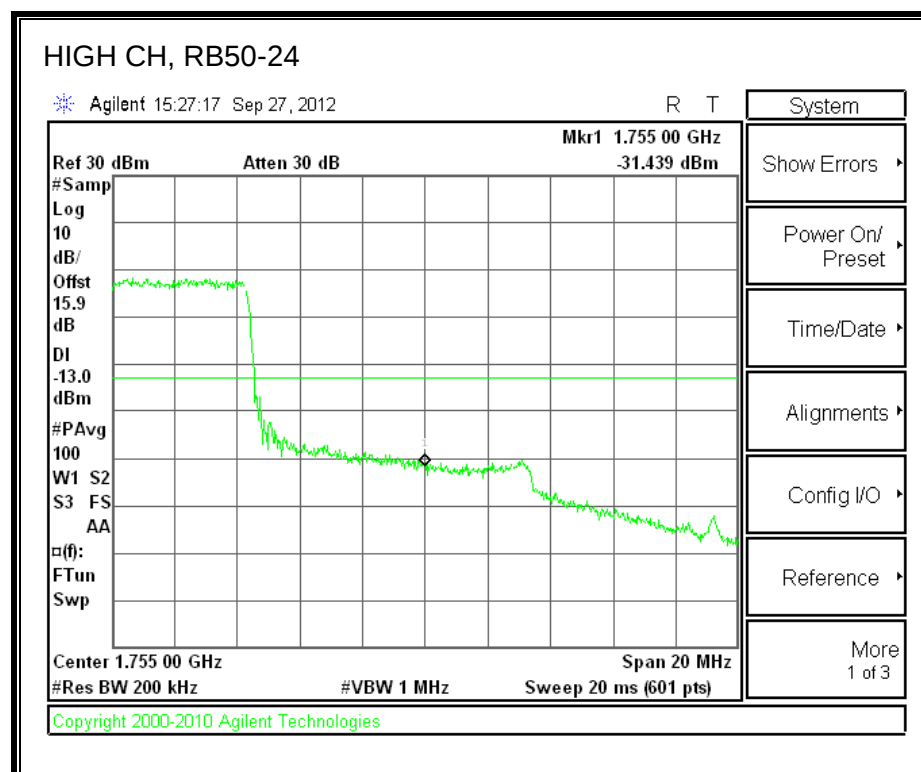
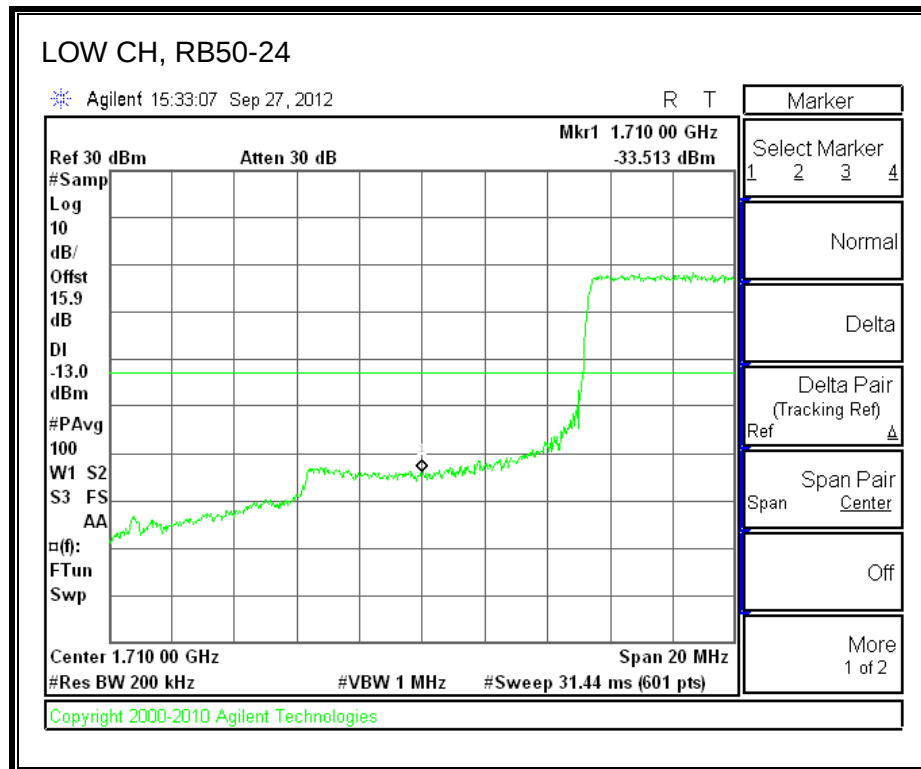


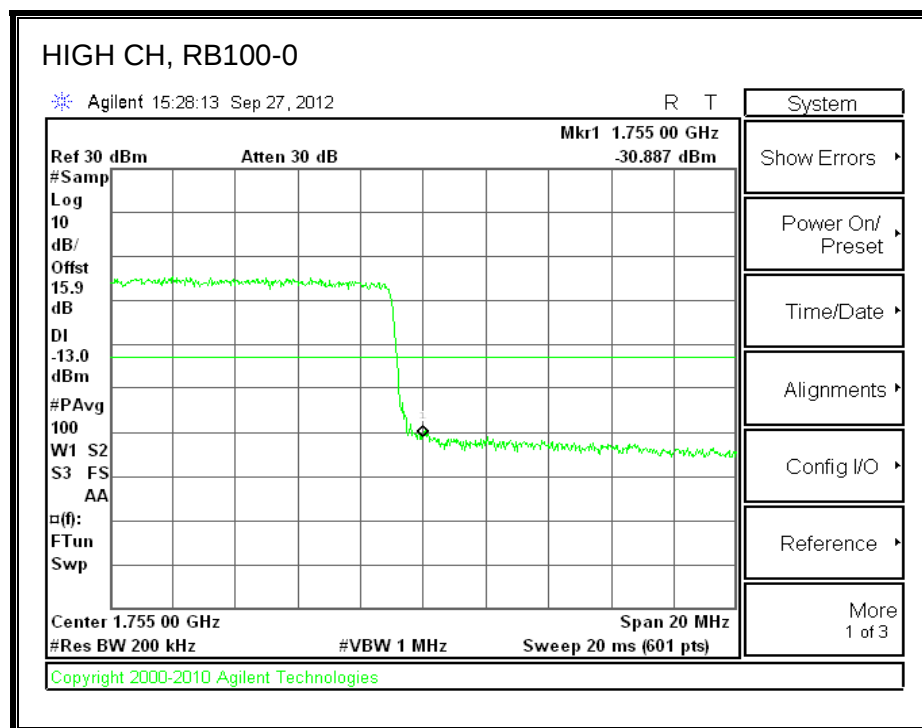
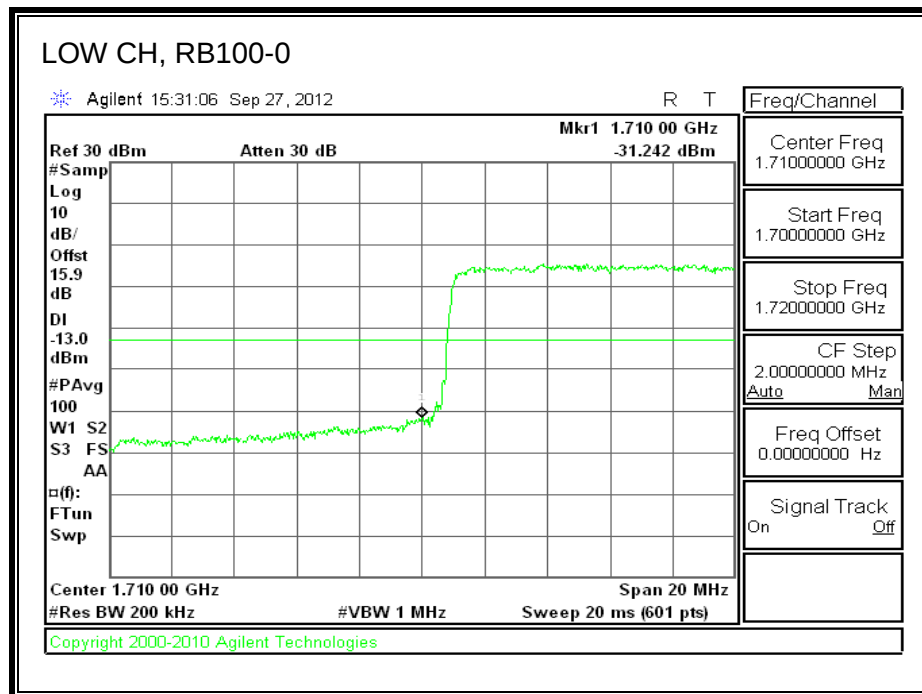


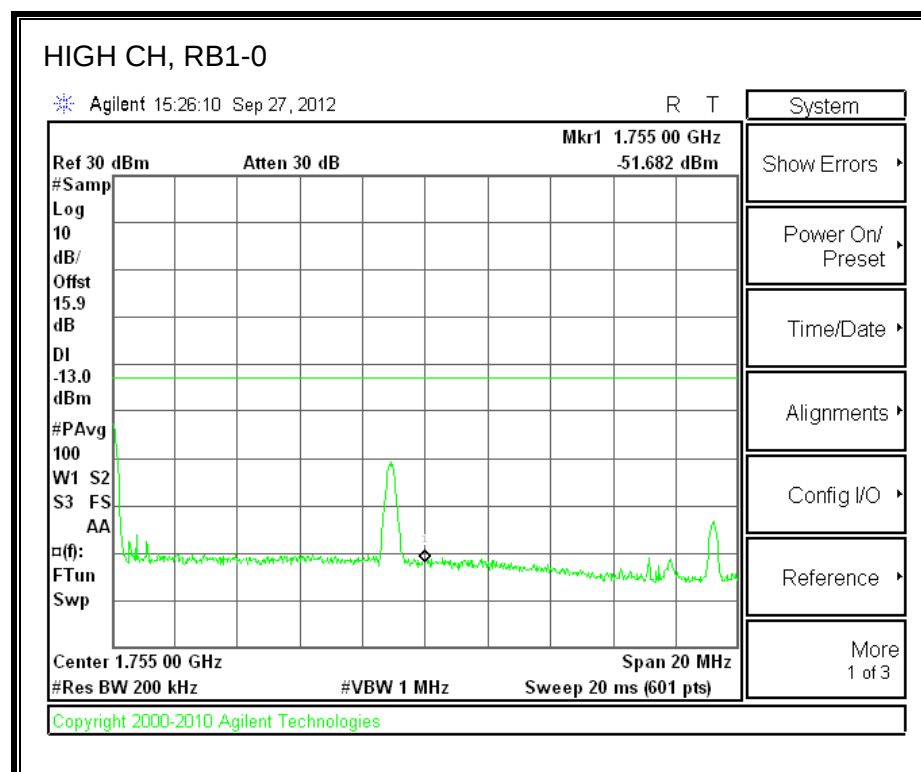
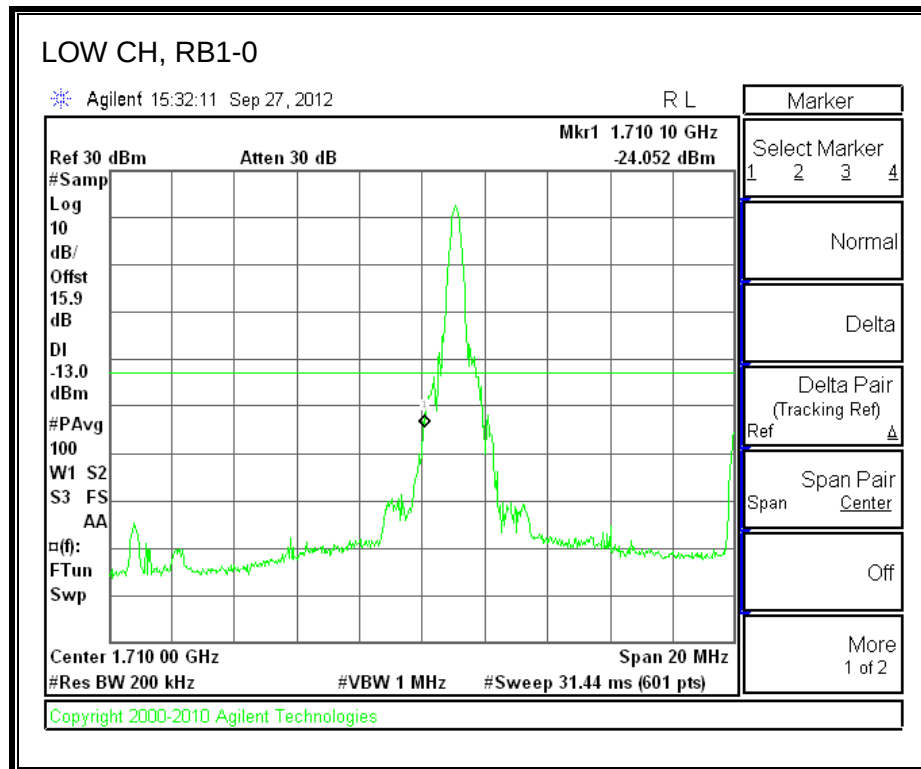


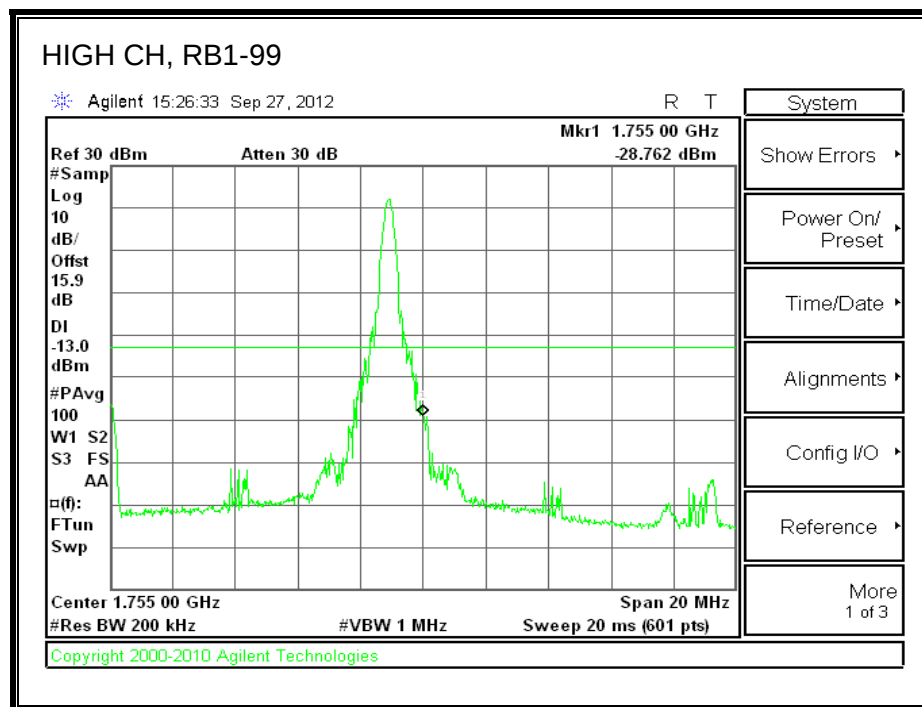
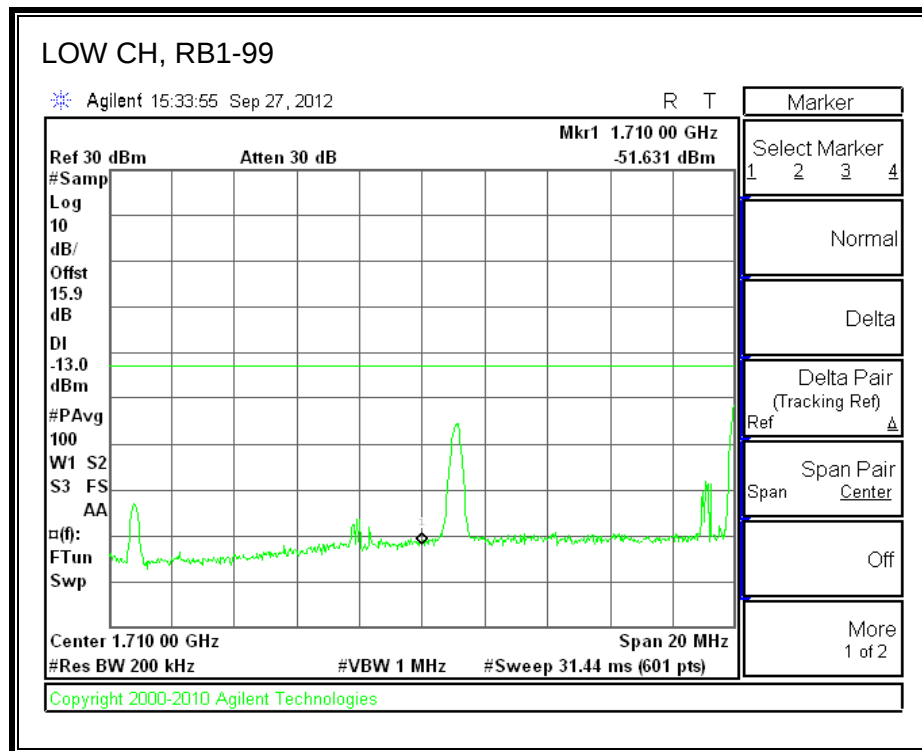
QPSK Band 4 (20 MHz BANDWIDTH)

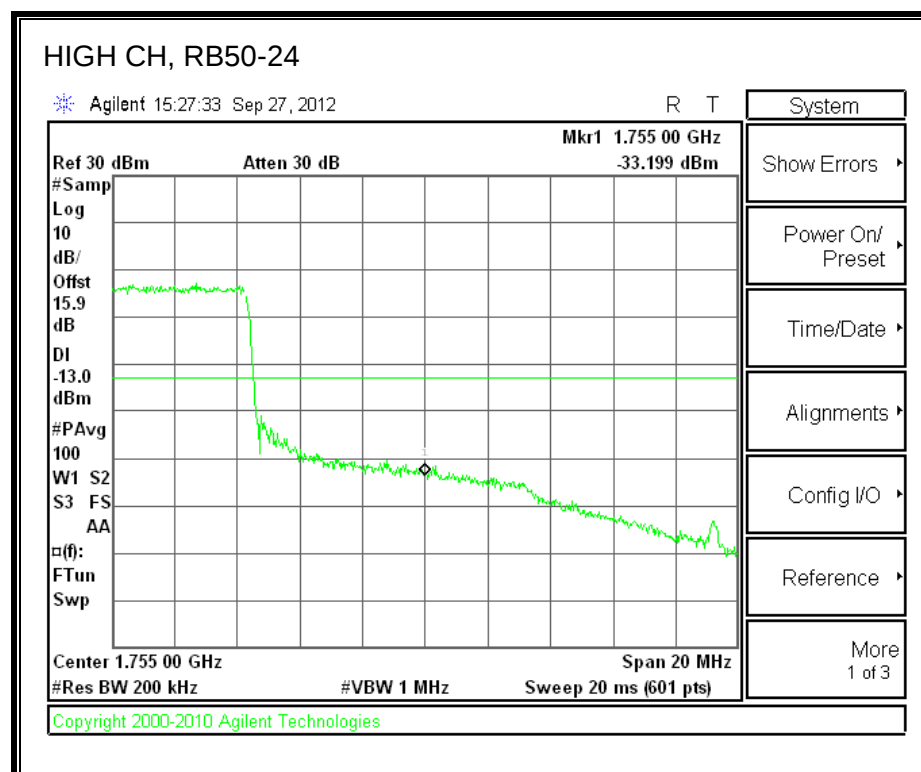
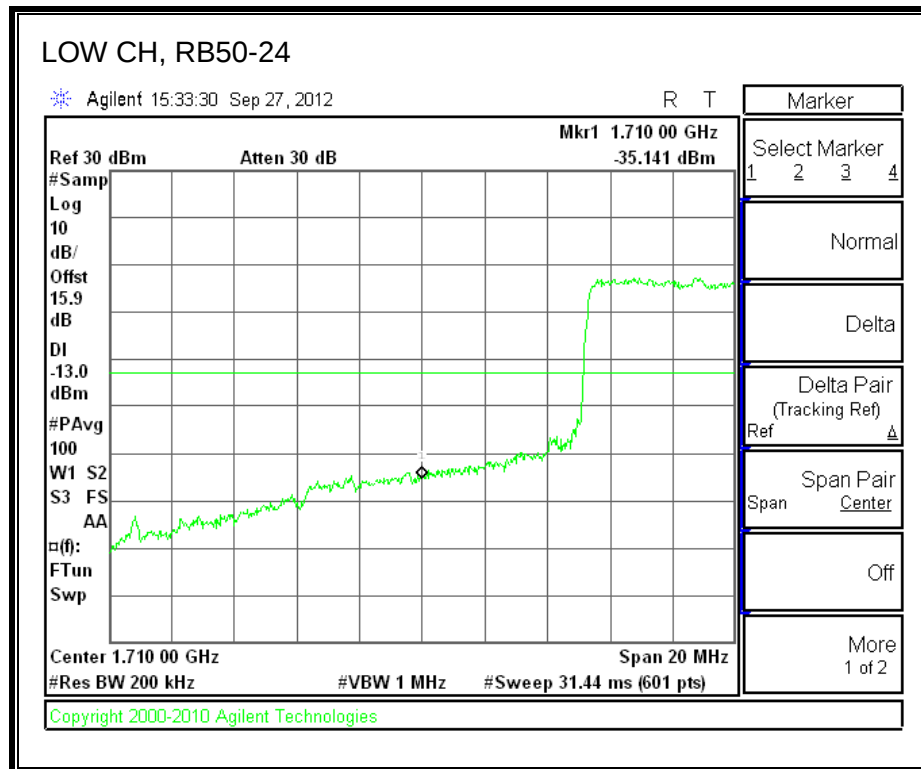


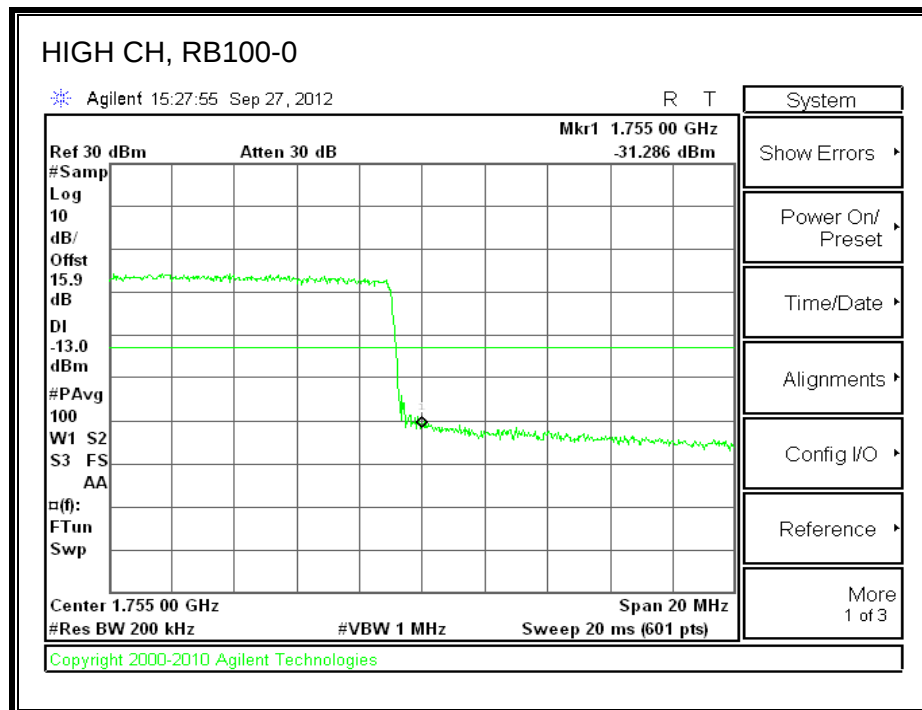
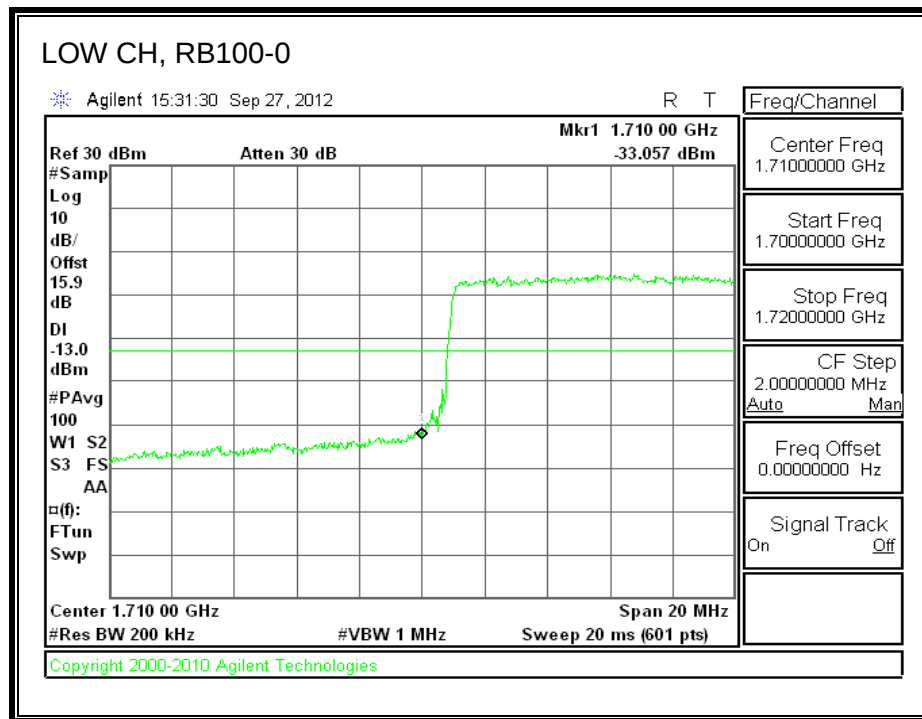




16QAM Band 4 (20 MHz BANDWIDTH)

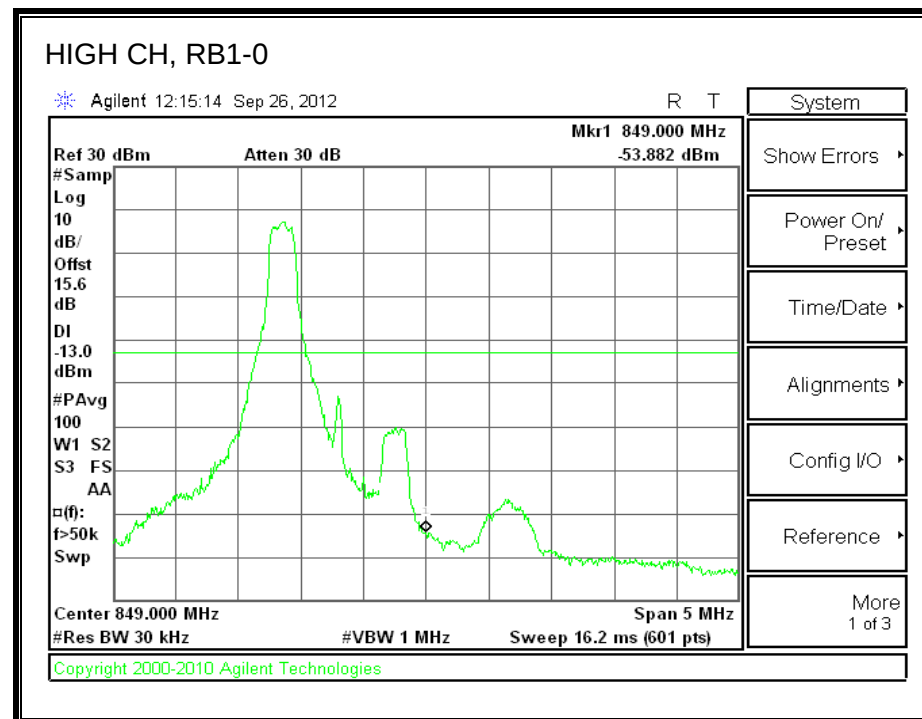
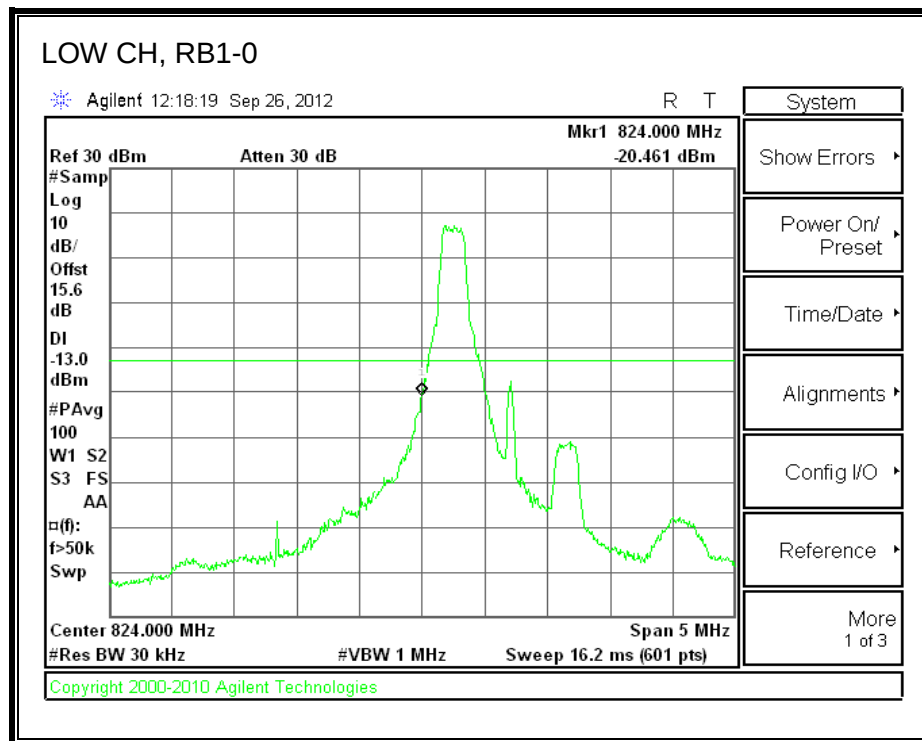


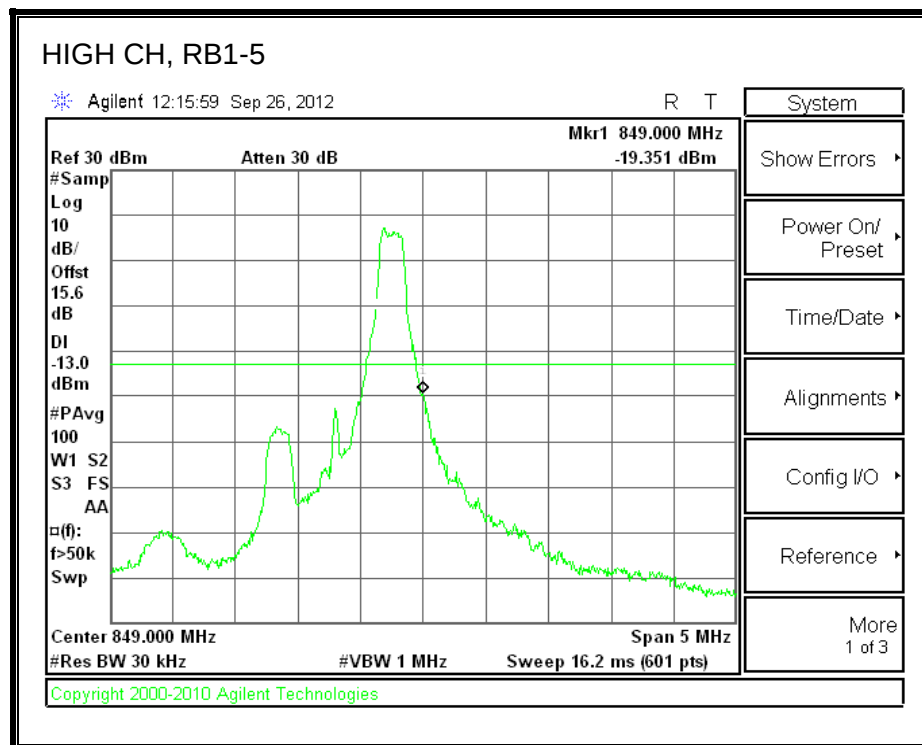
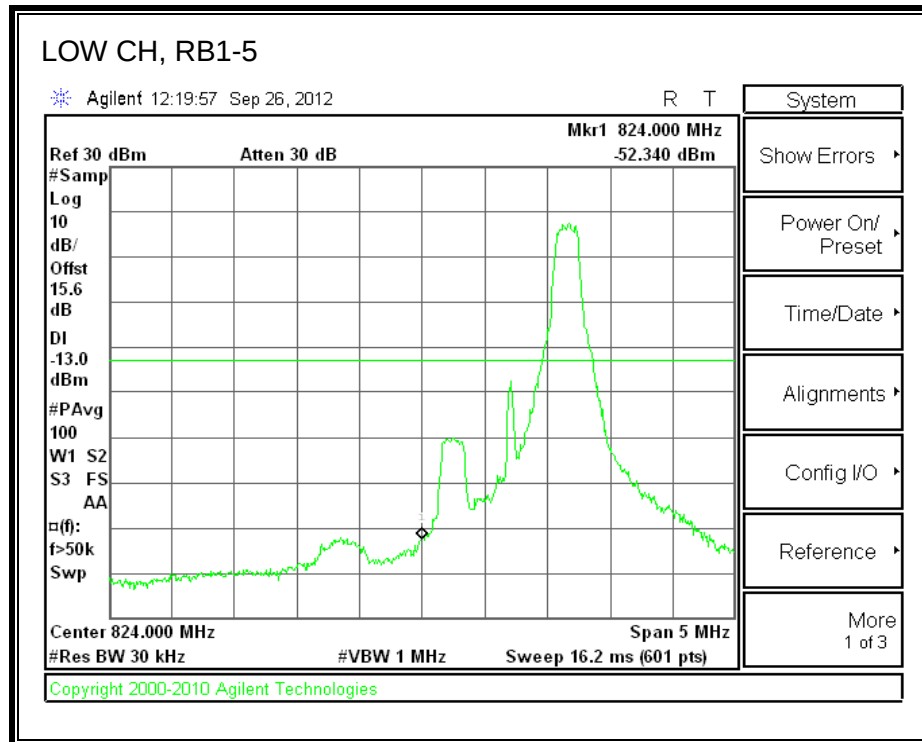


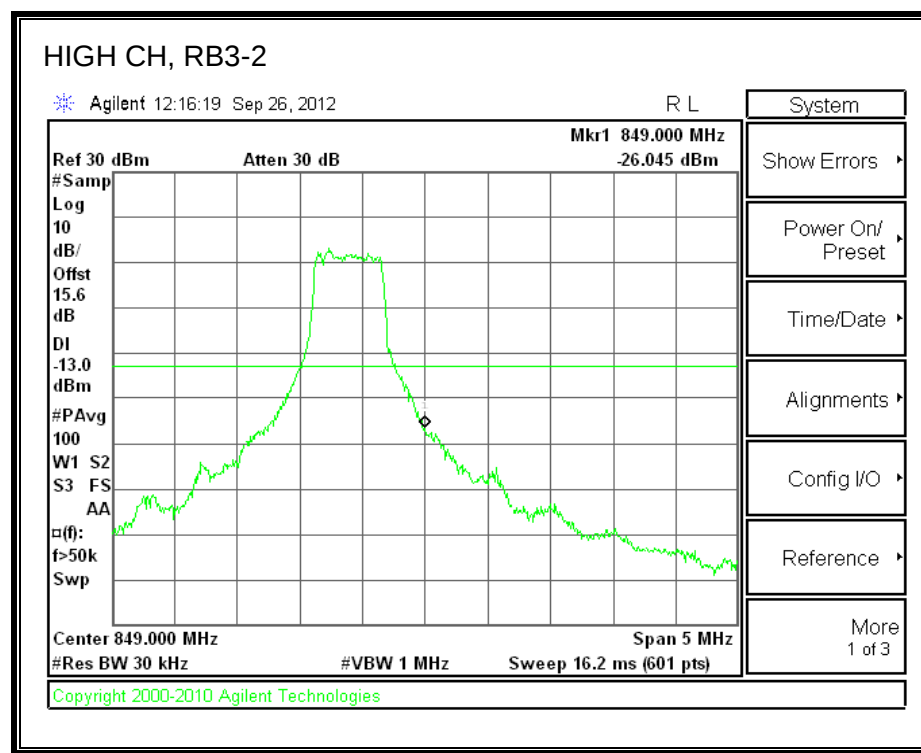
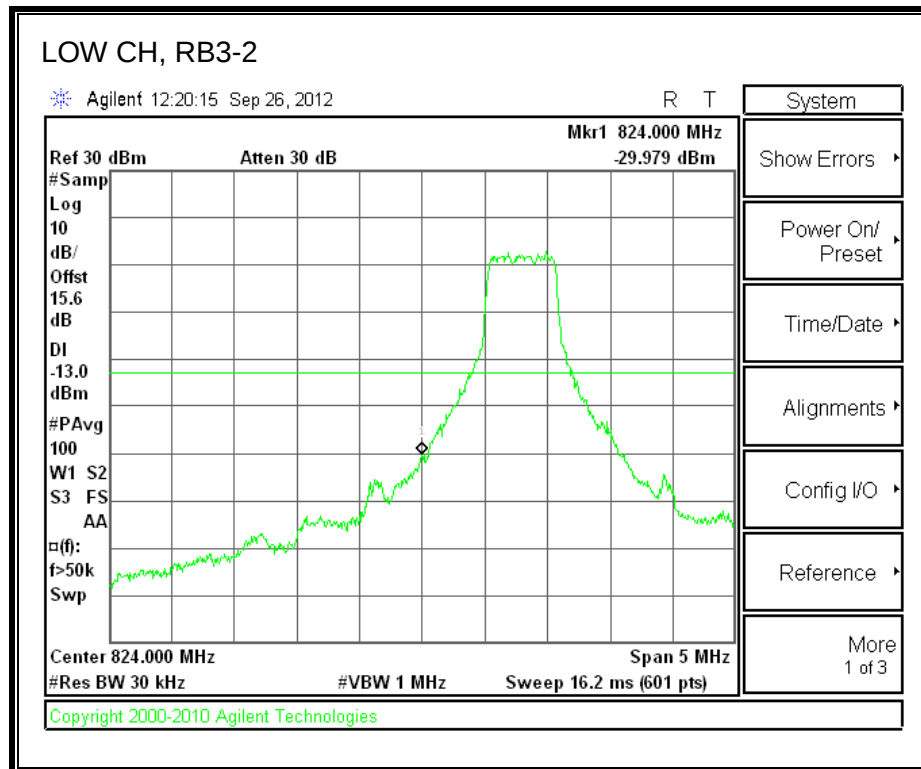


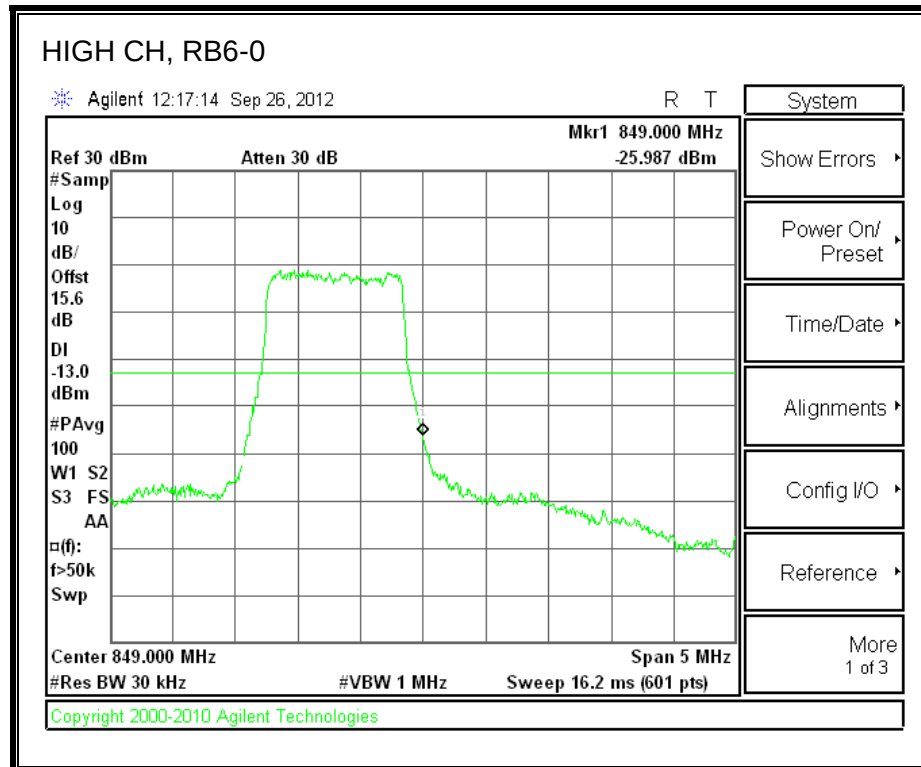
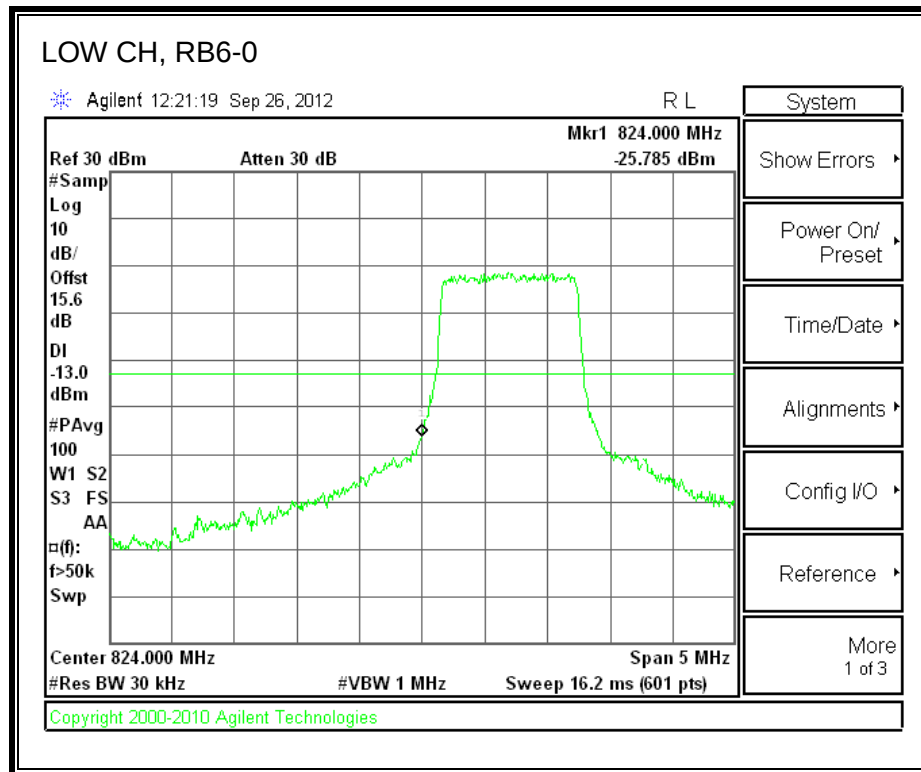
8.2.3. LTE BAND 5

QPSK Band 5 (1.4 MHz BANDWIDTH)

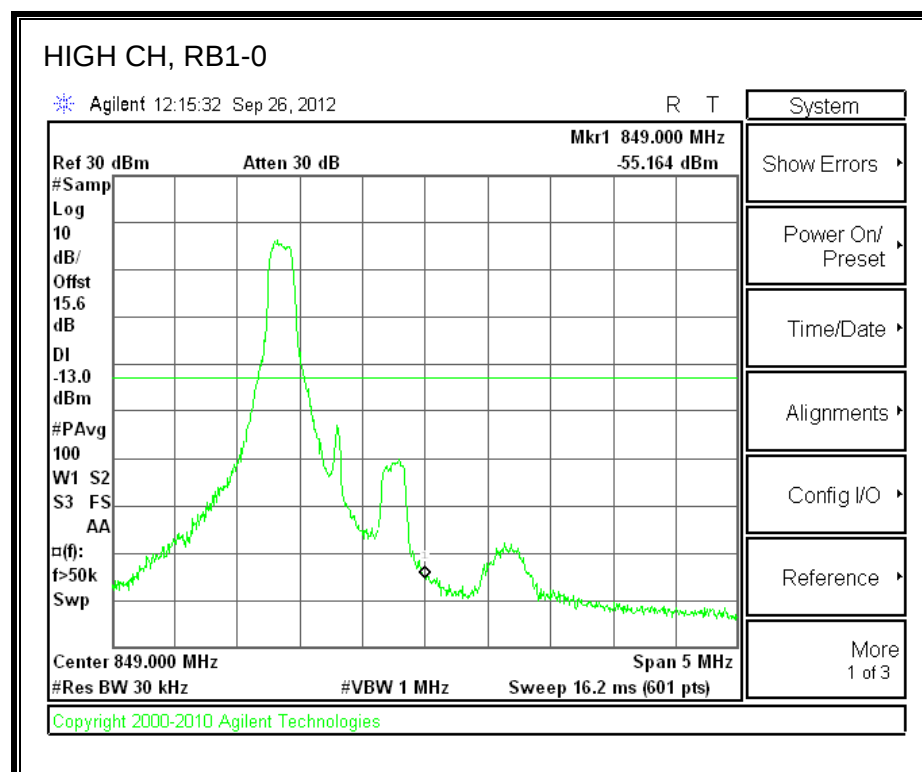
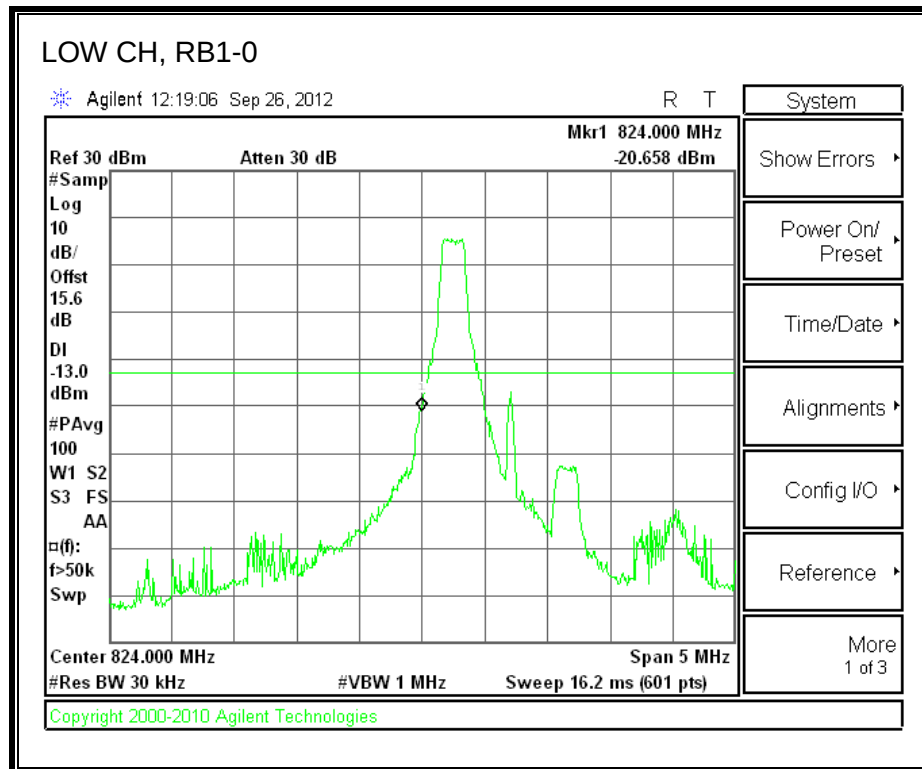


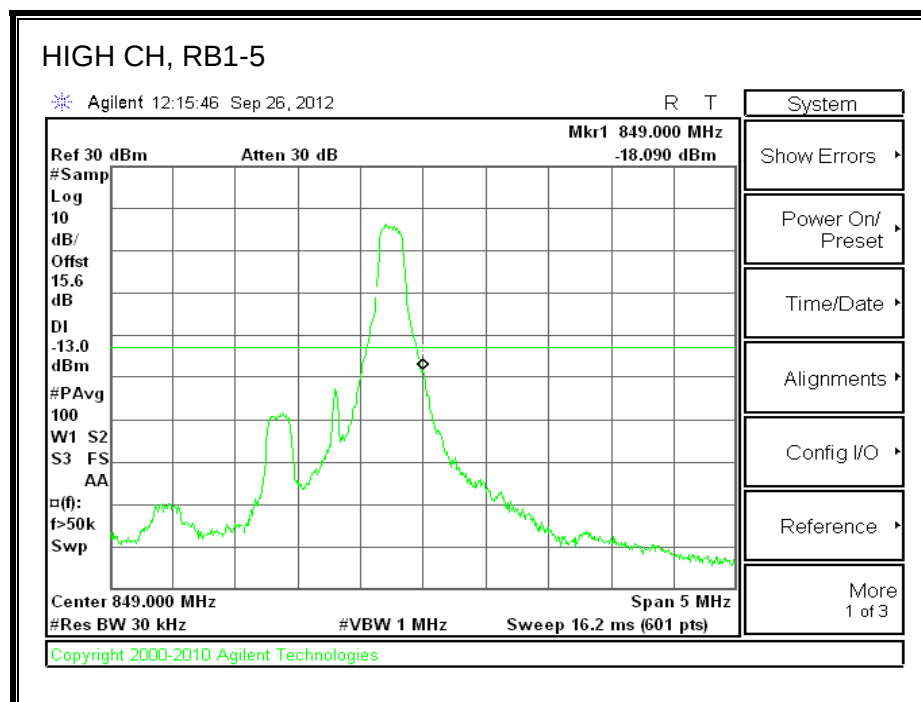
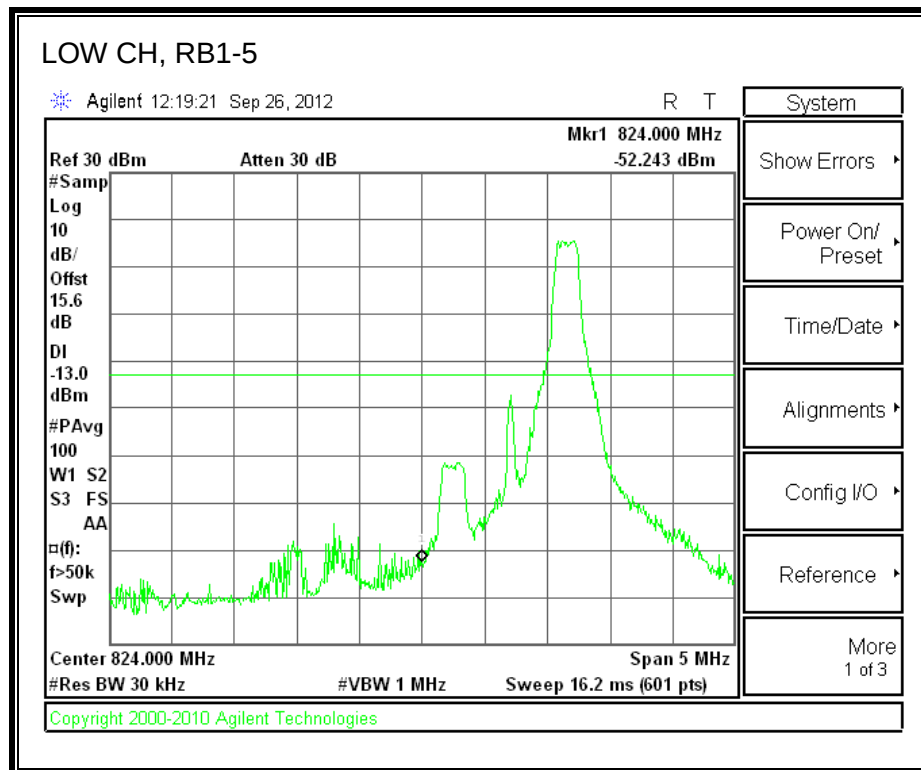


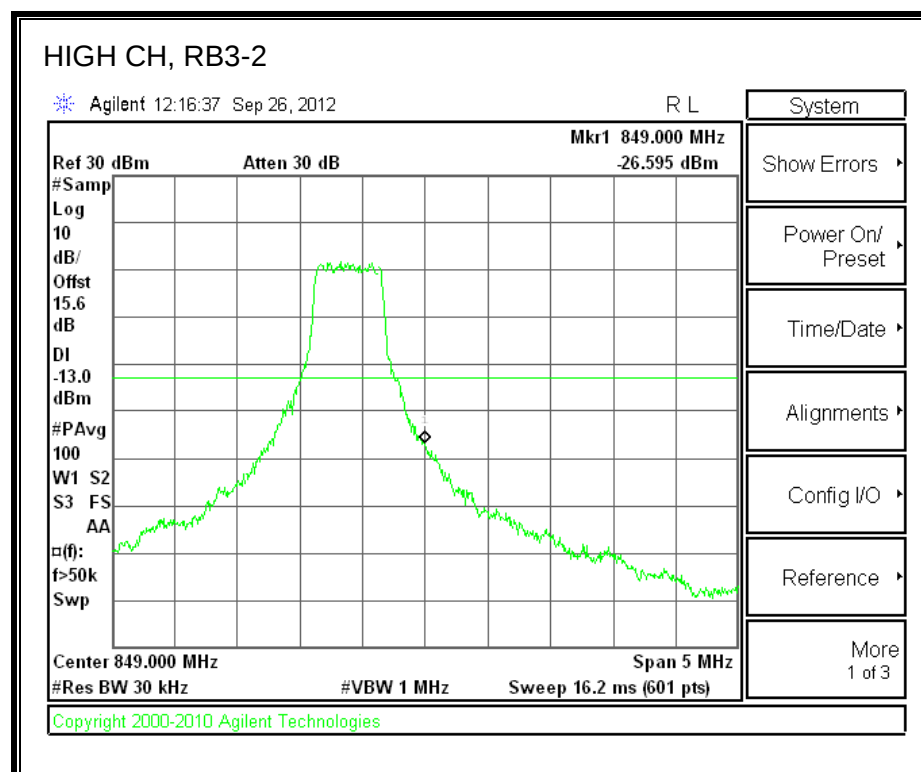
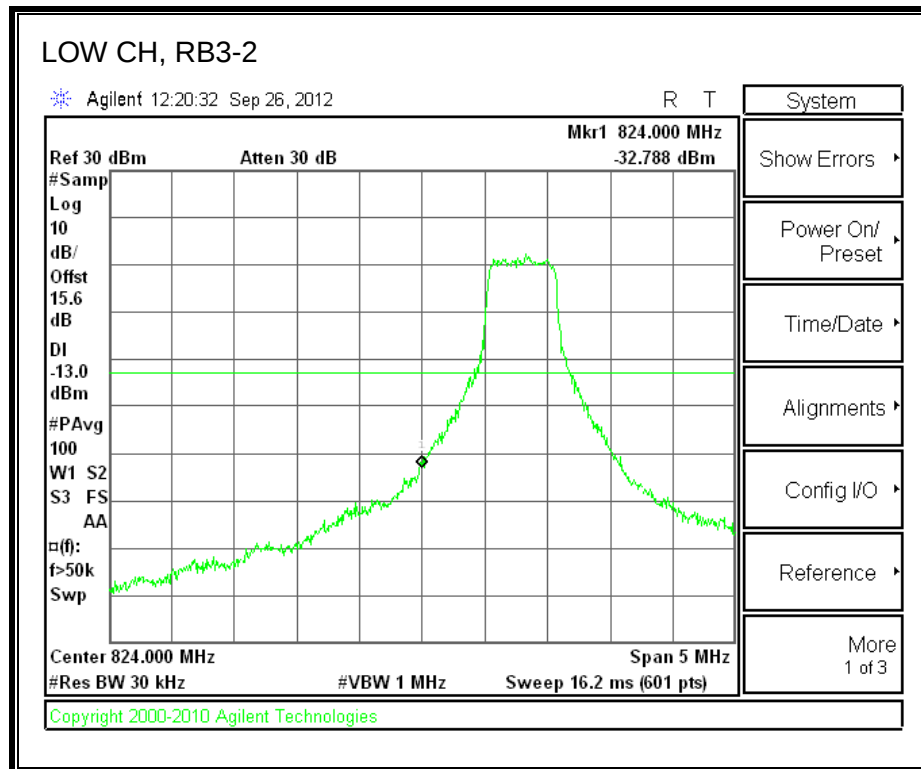


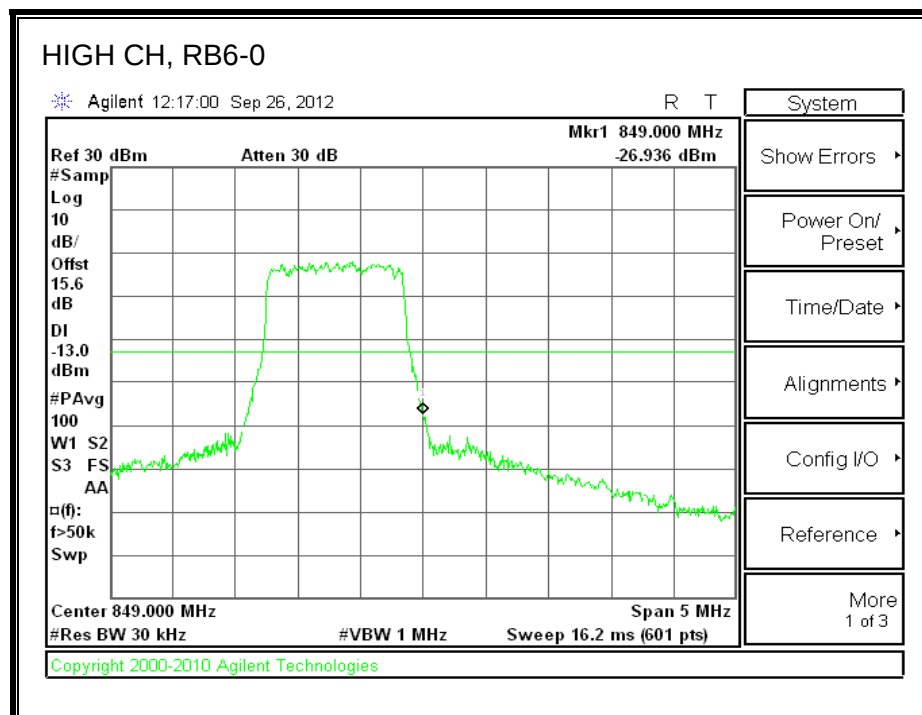
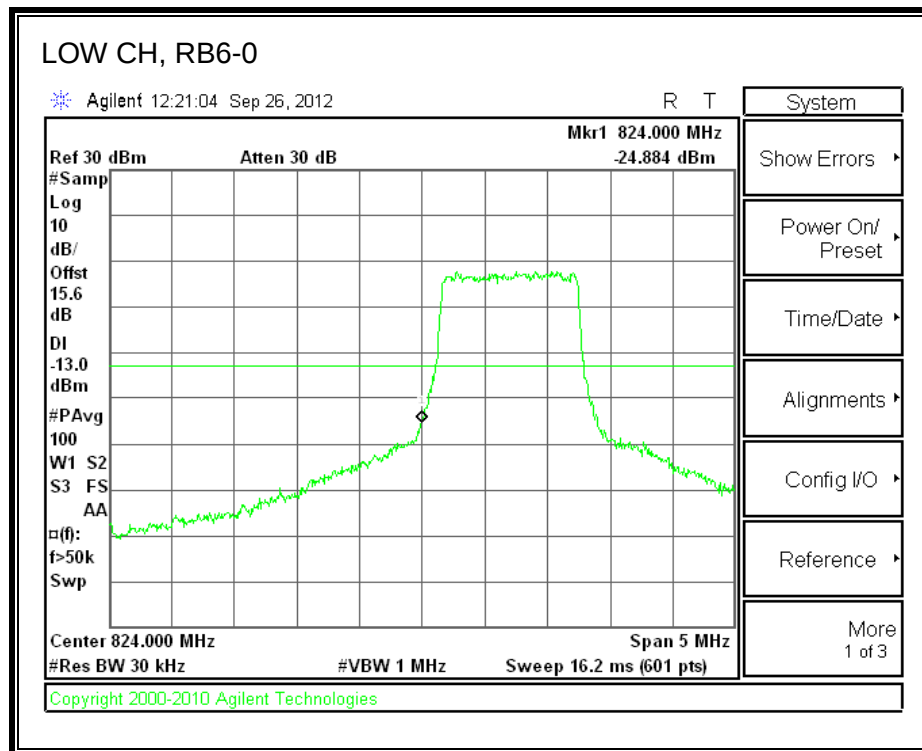


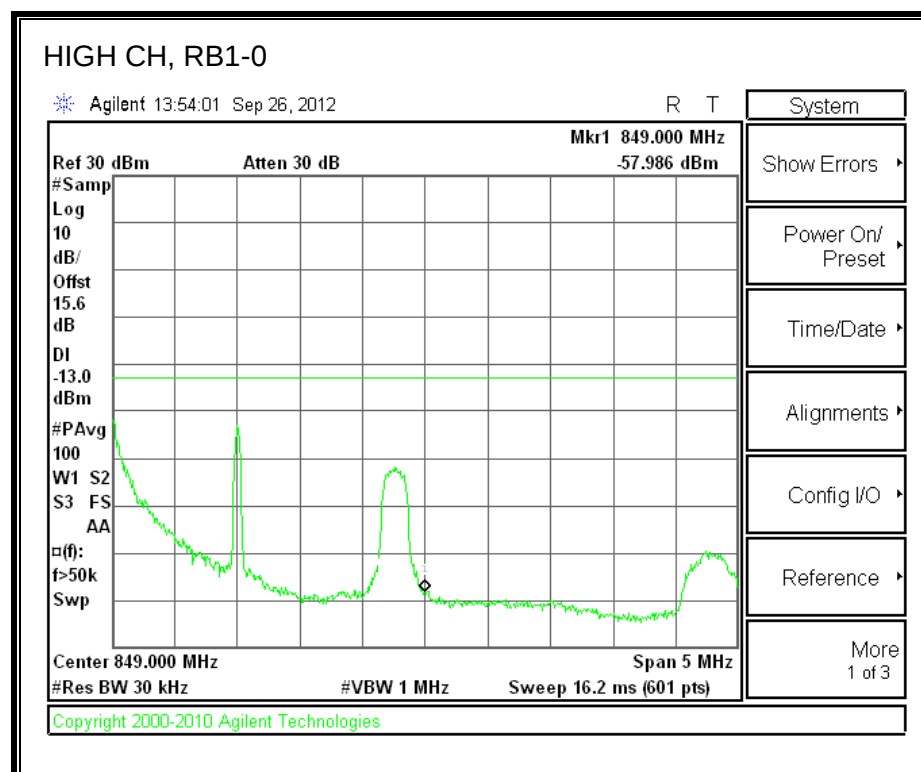
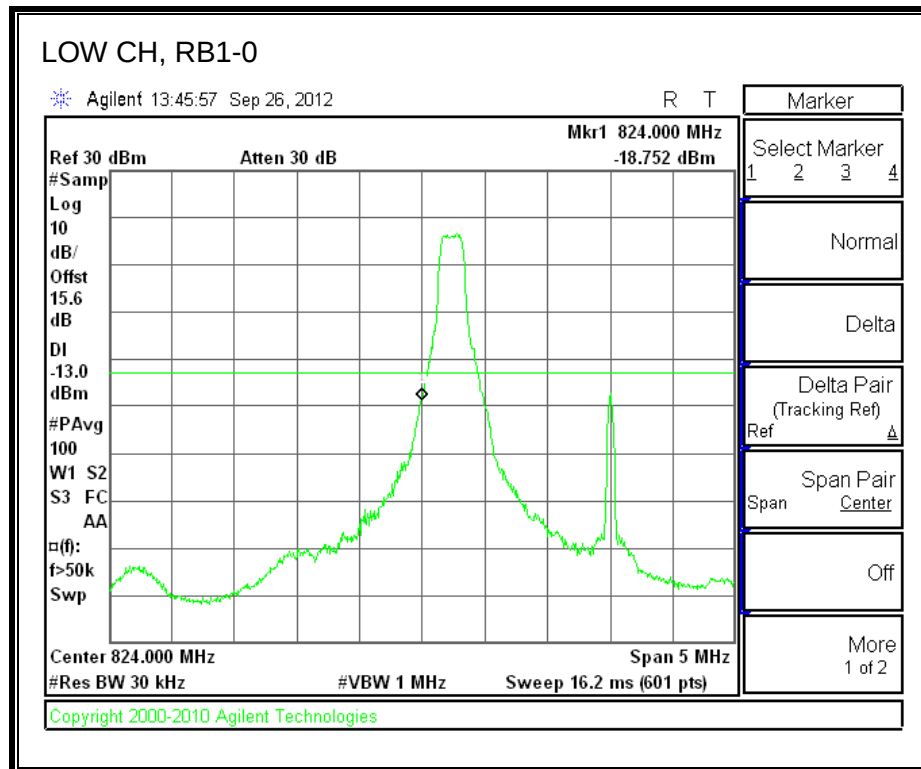
16QAM Band 5 (1.4 MHz BANDWIDTH)

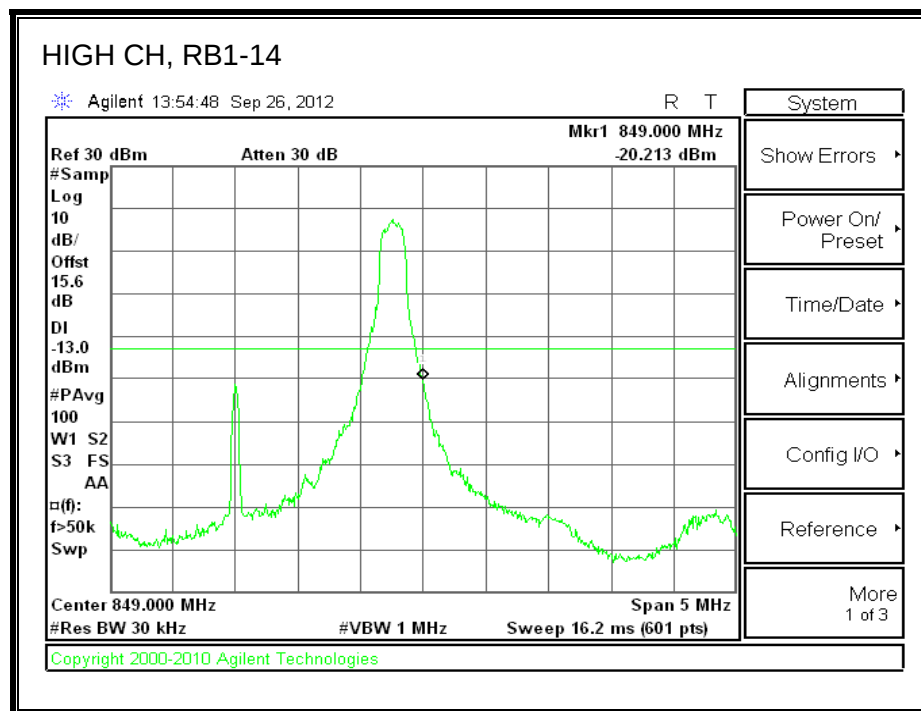
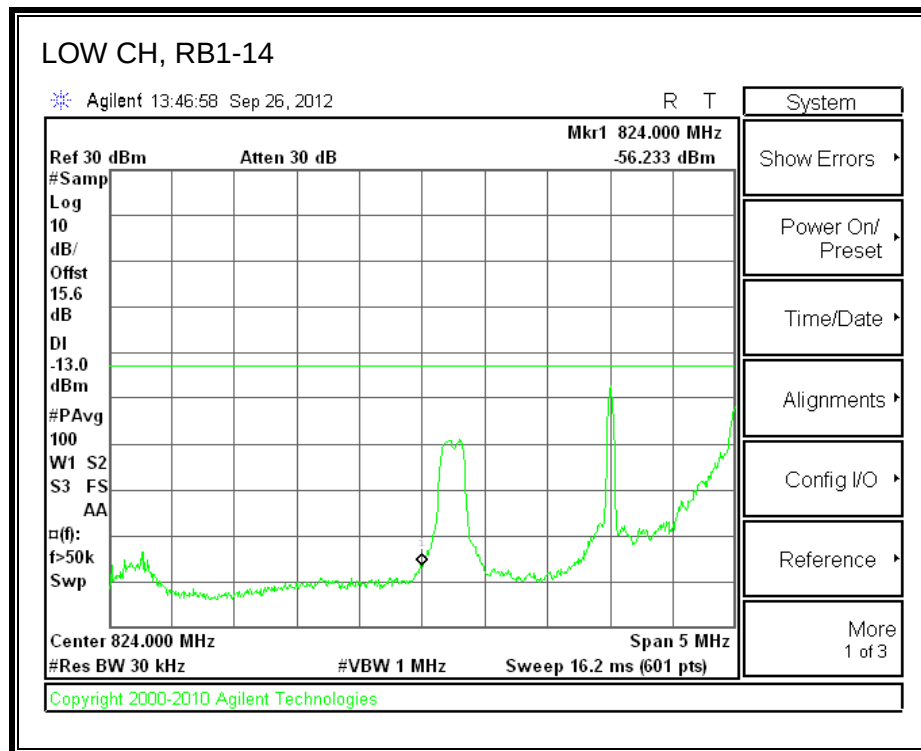


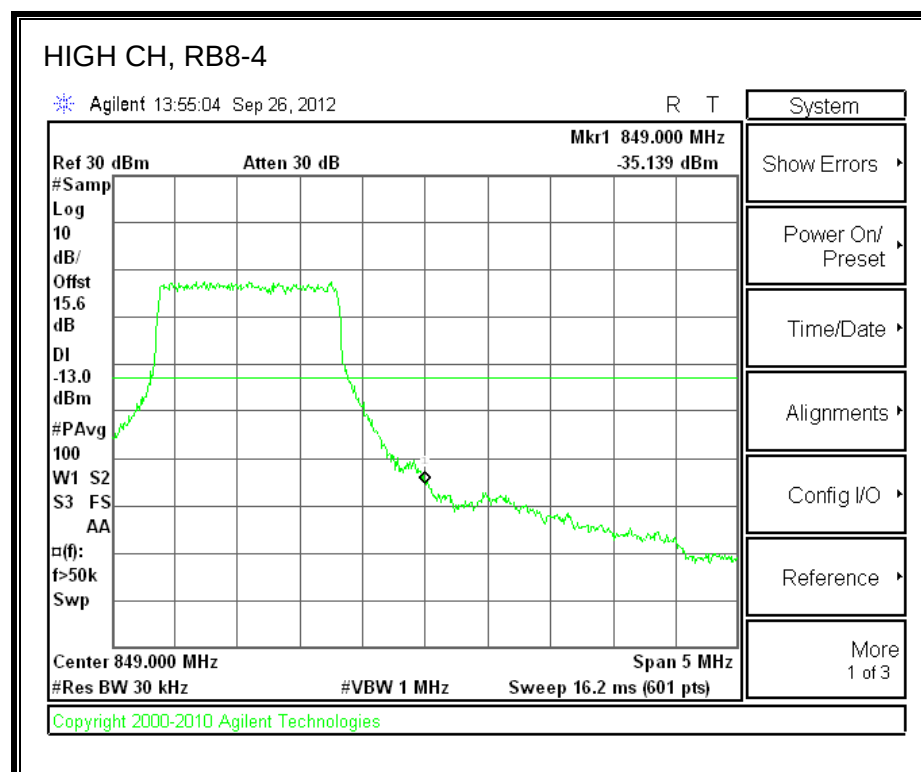
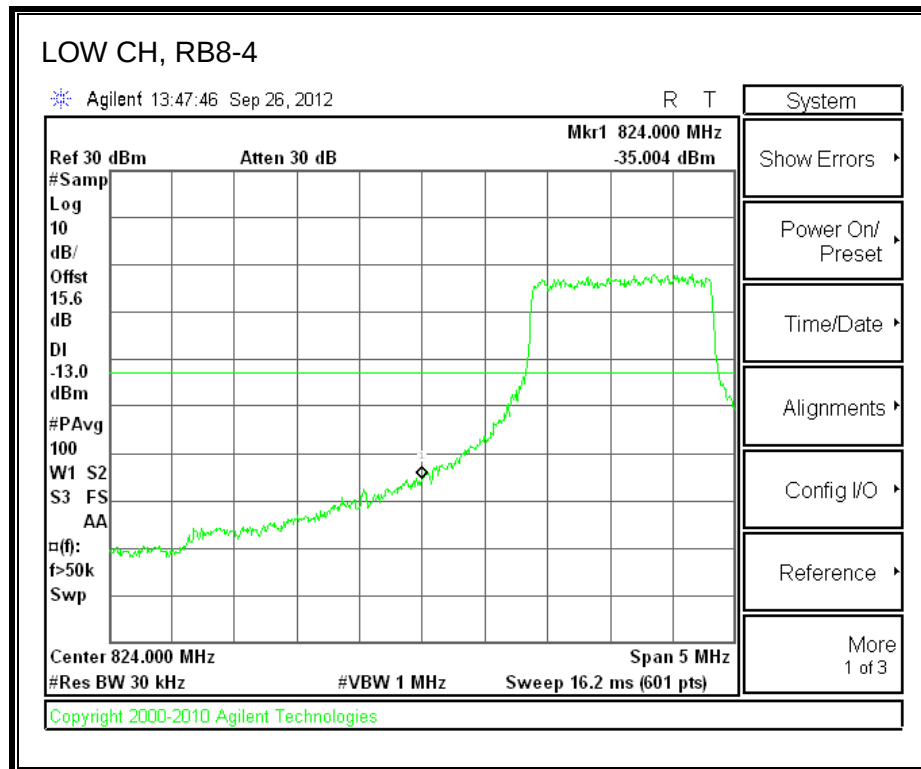


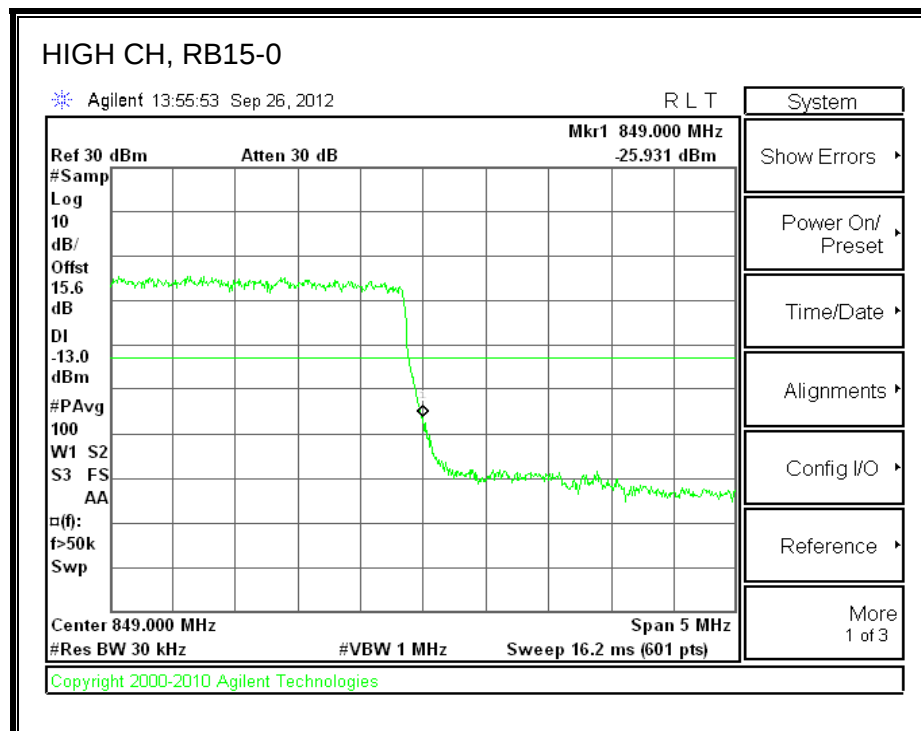
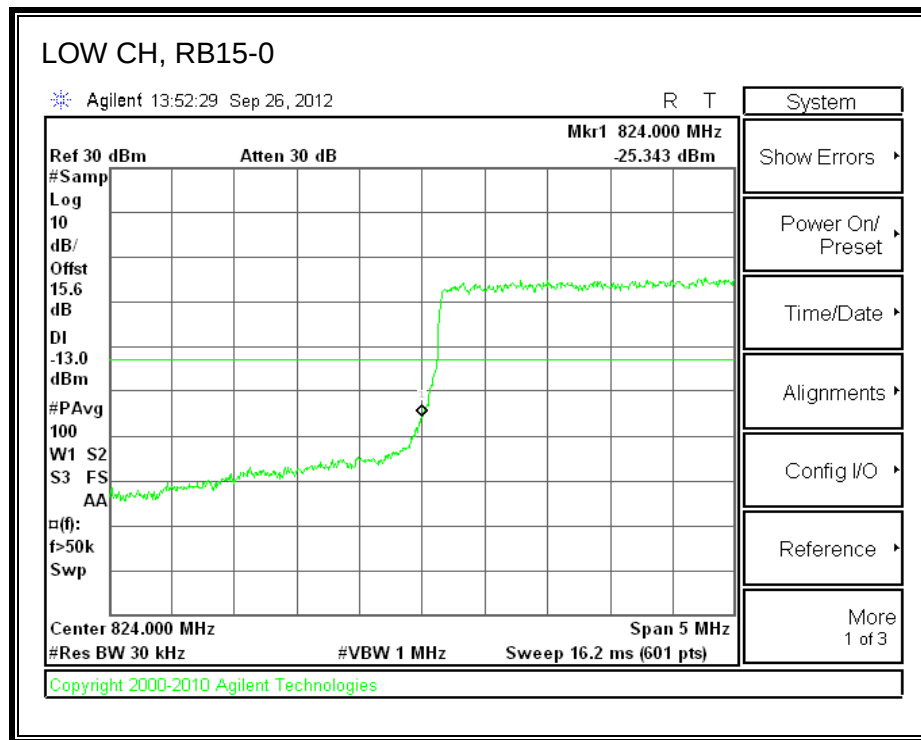




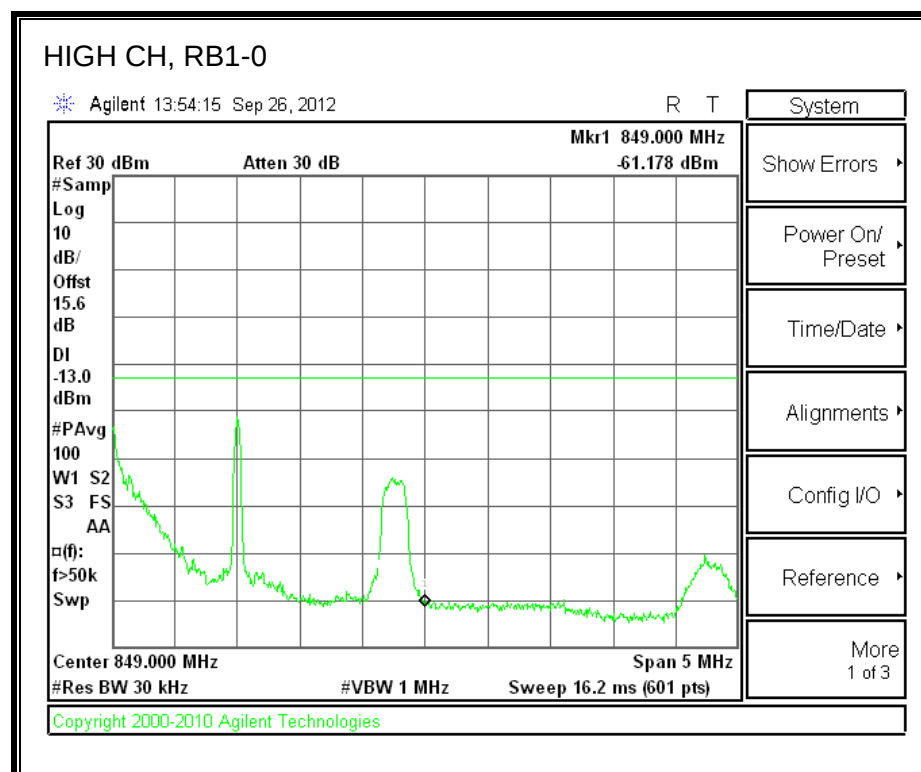
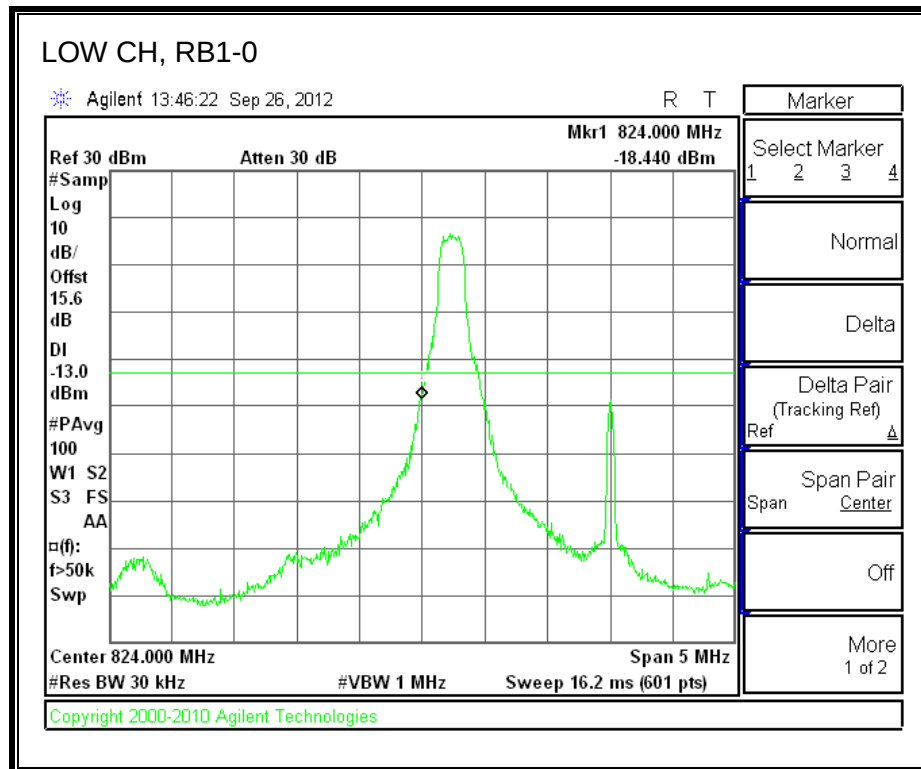
QPSK Band 5 (3 MHz BANDWIDTH)

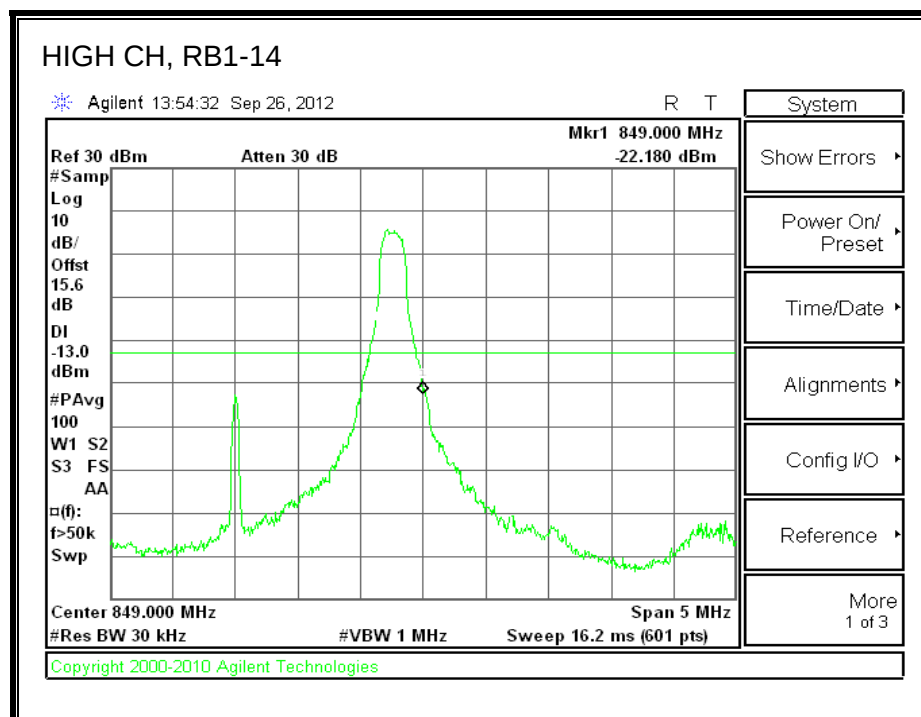
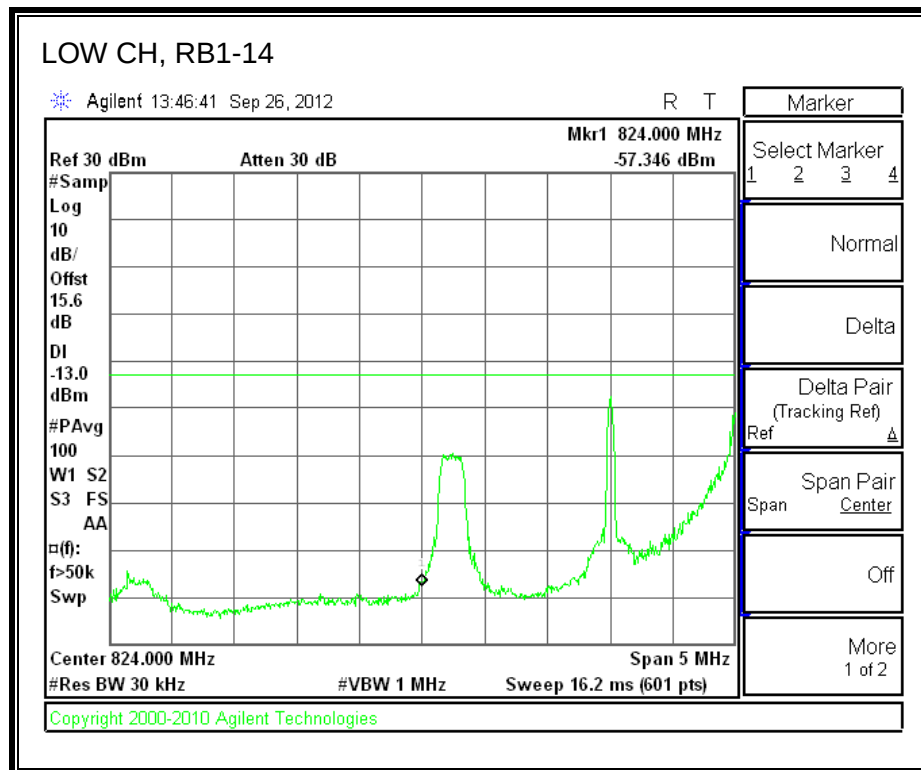


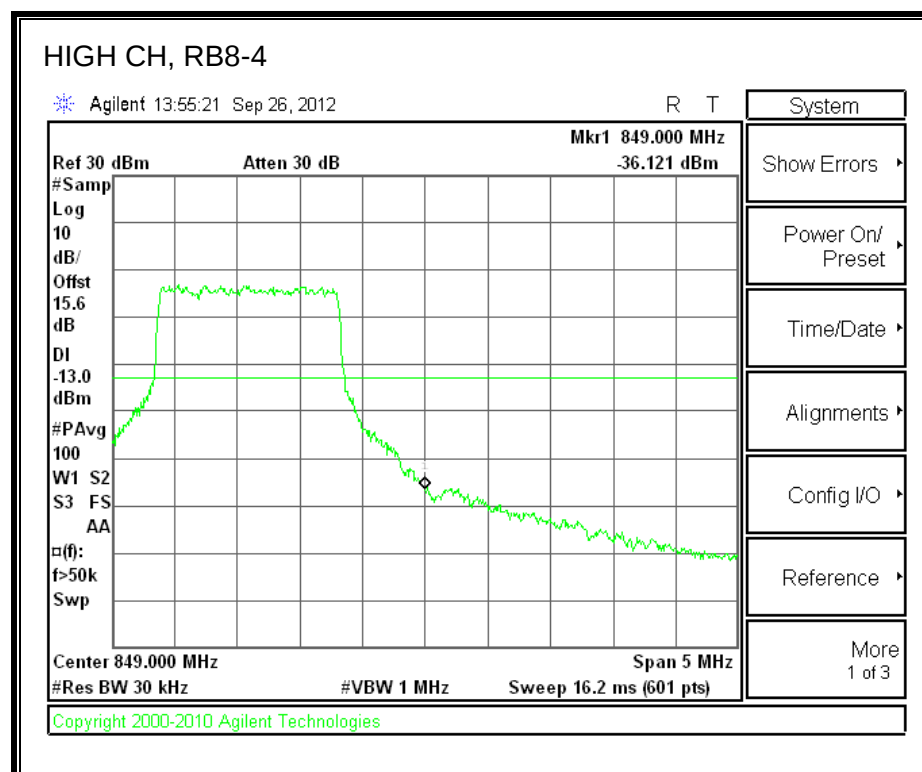
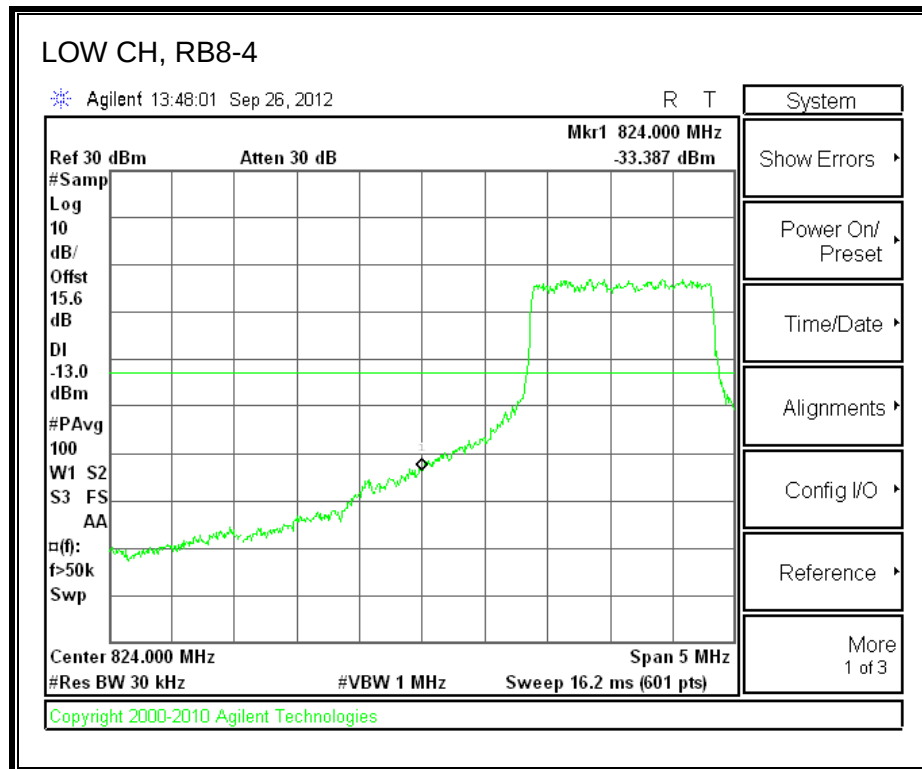


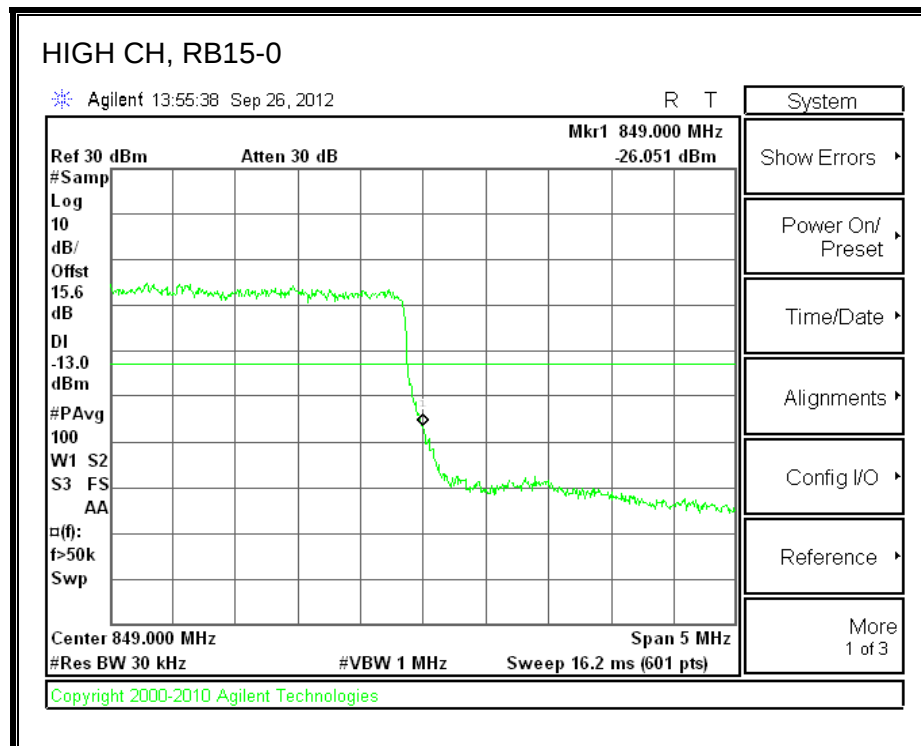
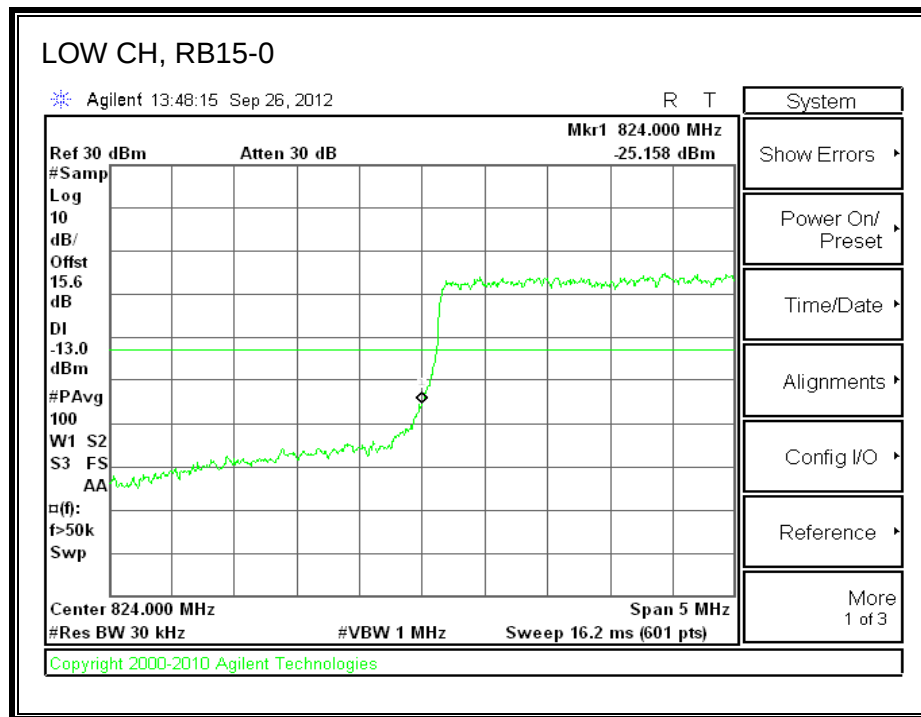


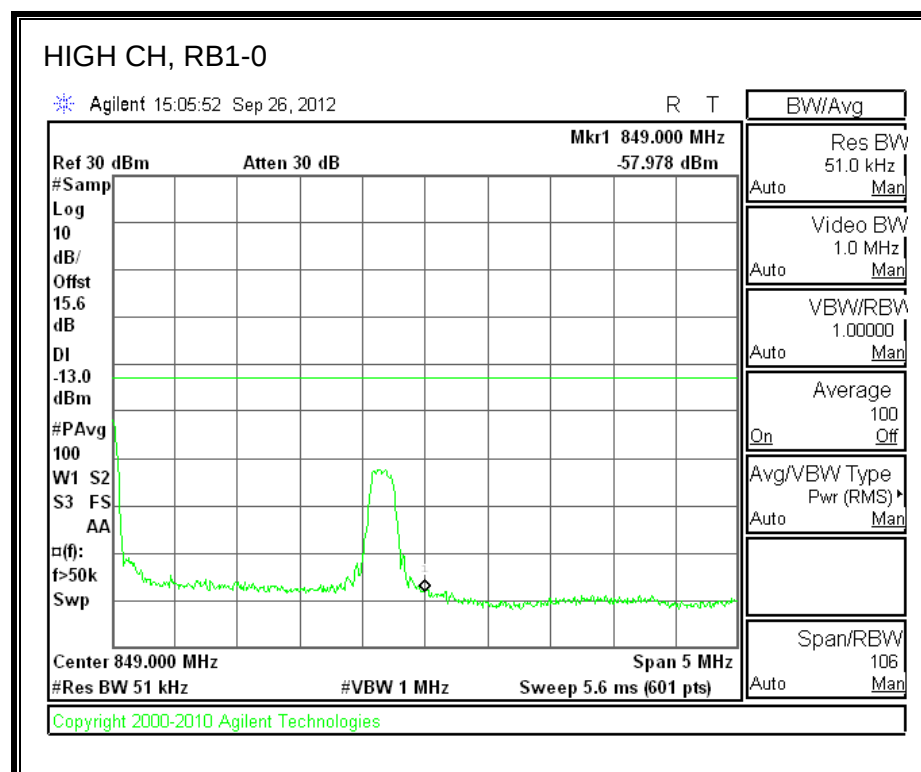
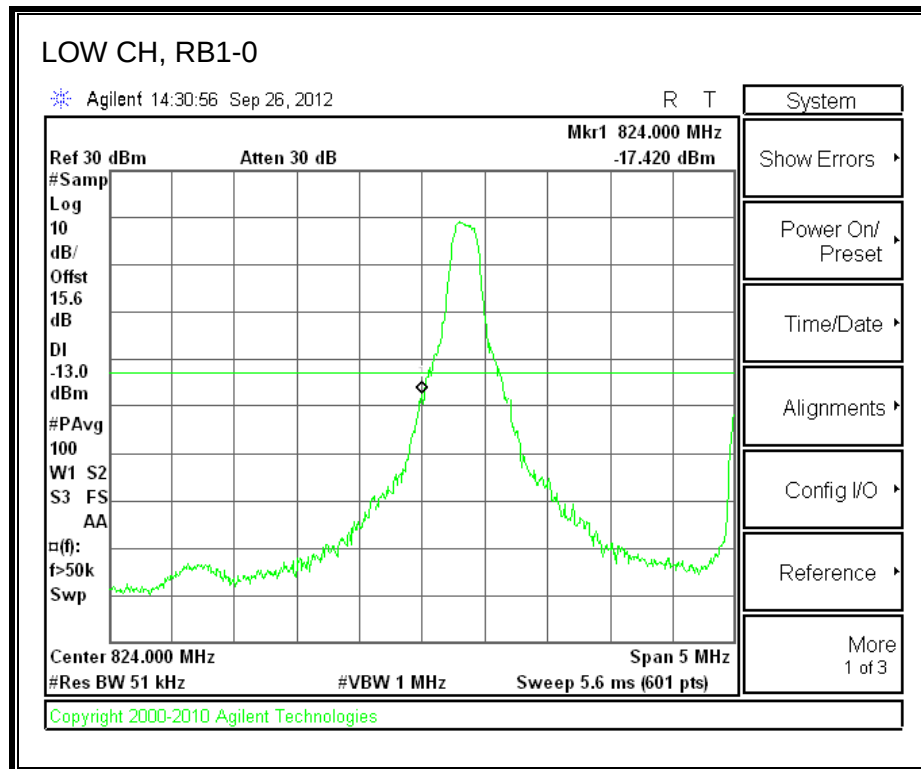
16QAM Band 5 (3 MHz BANDWIDTH)

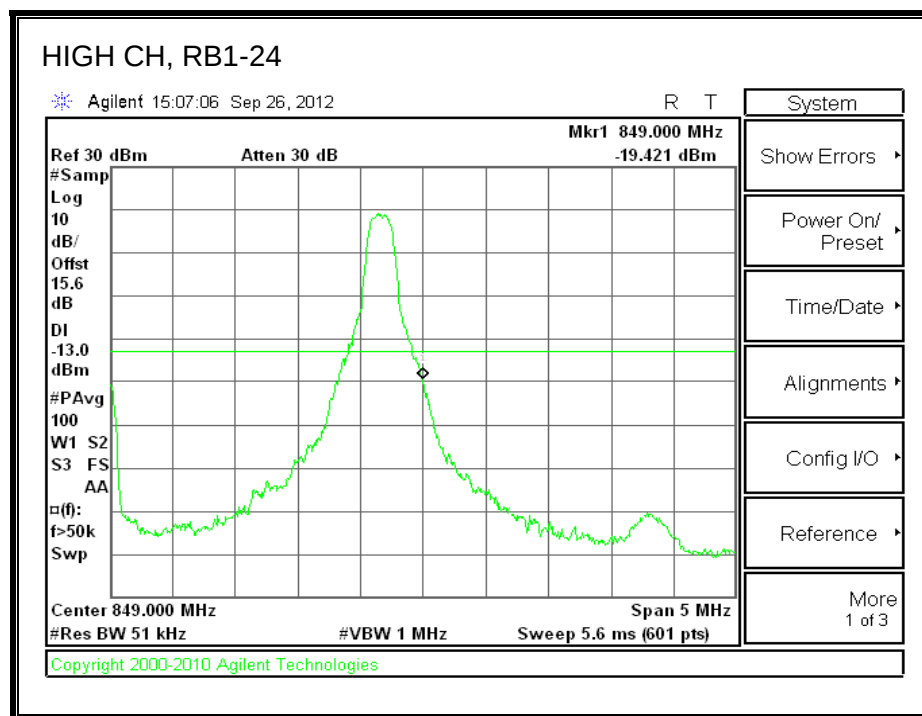
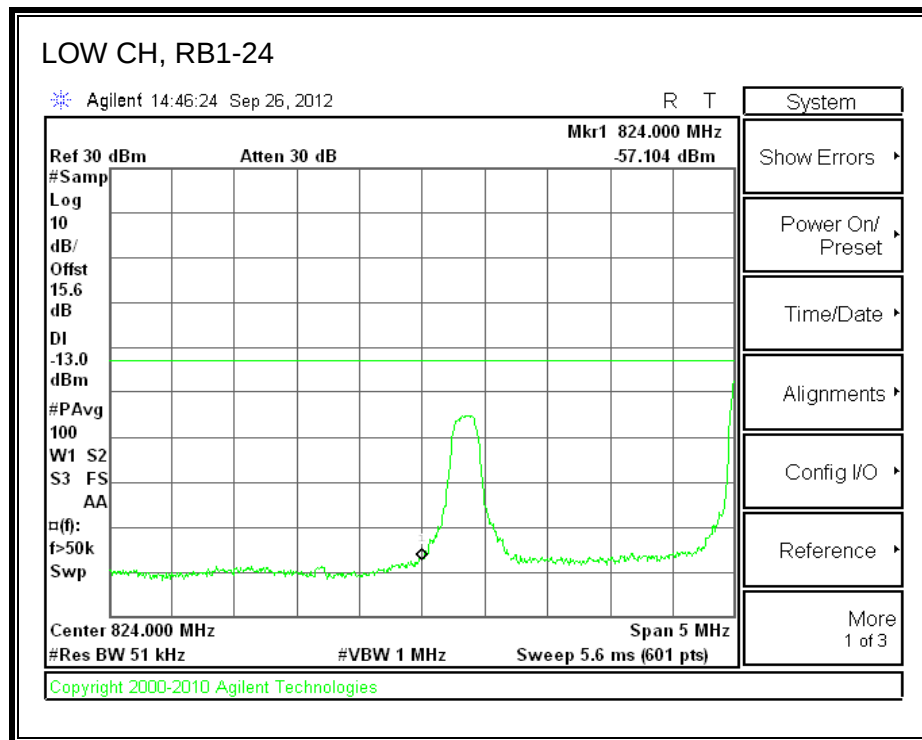


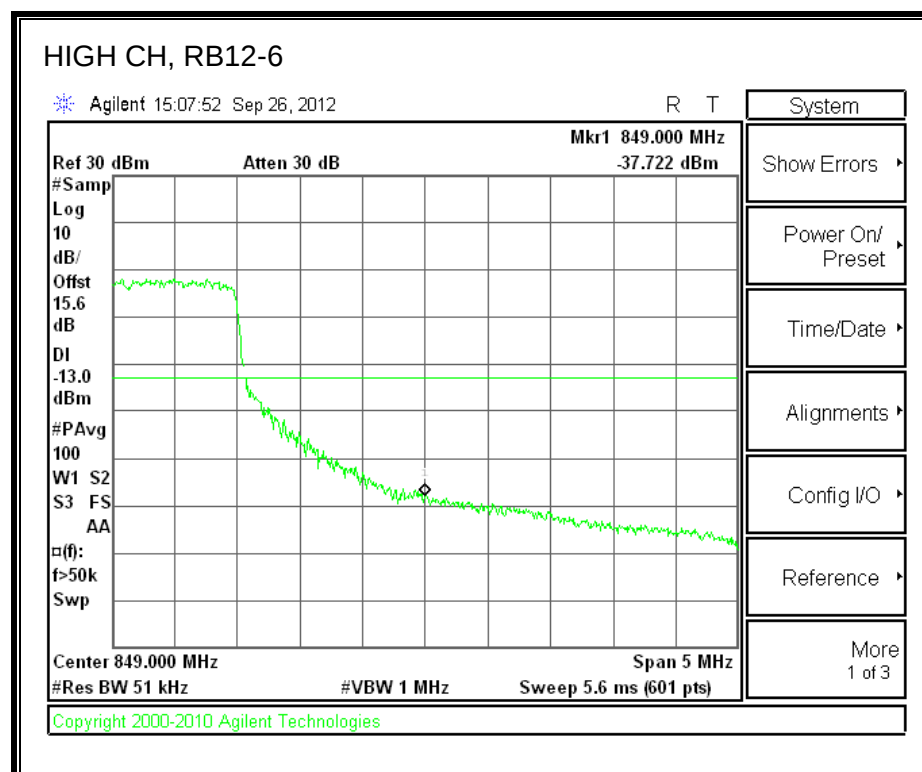
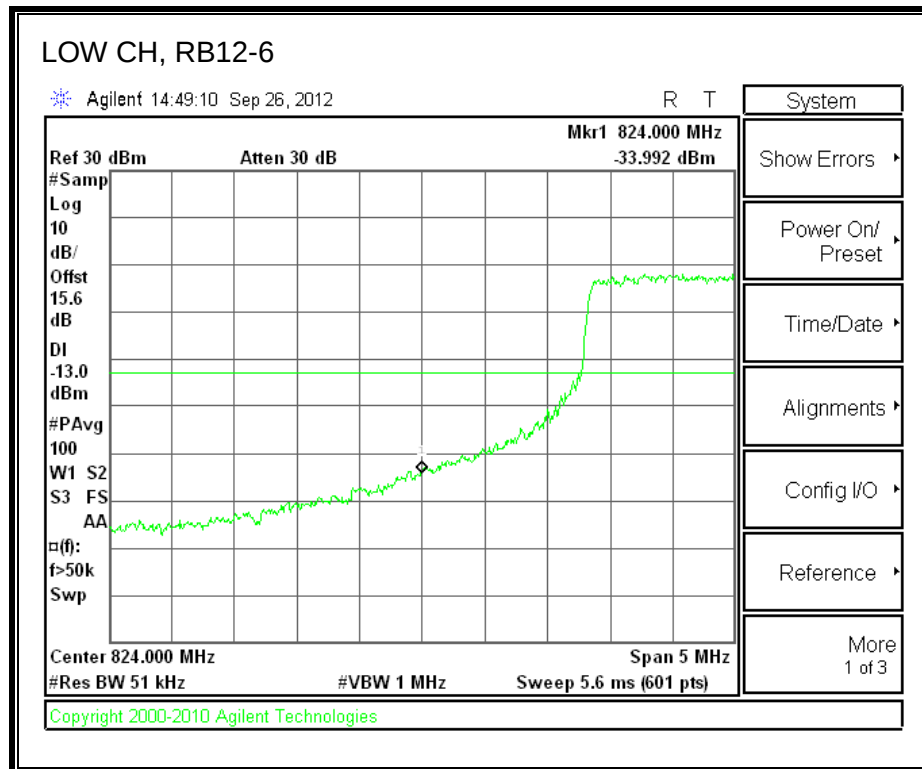


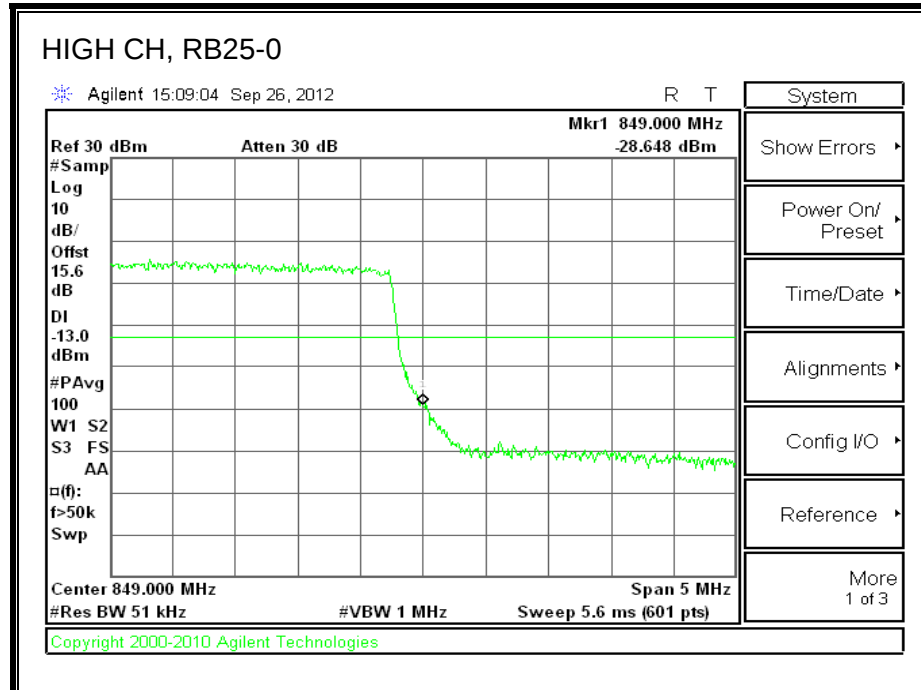
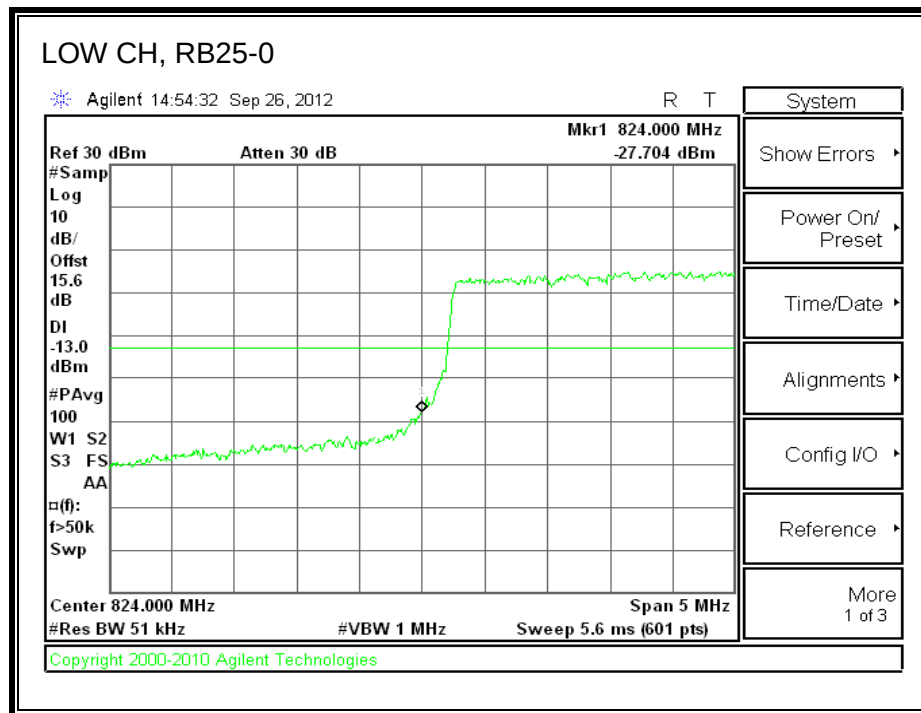




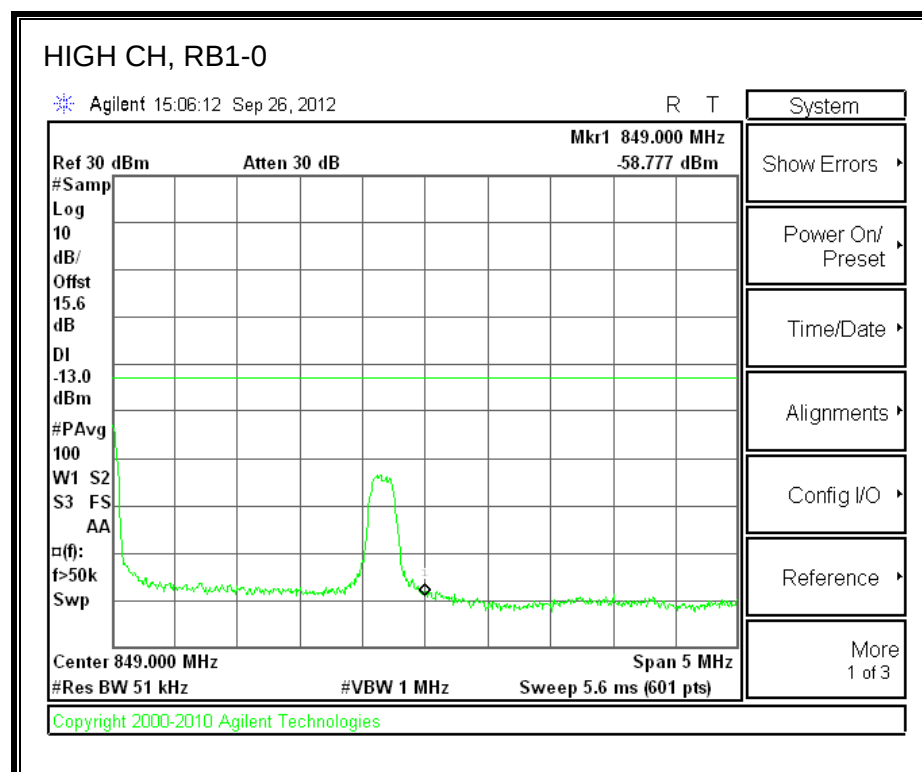
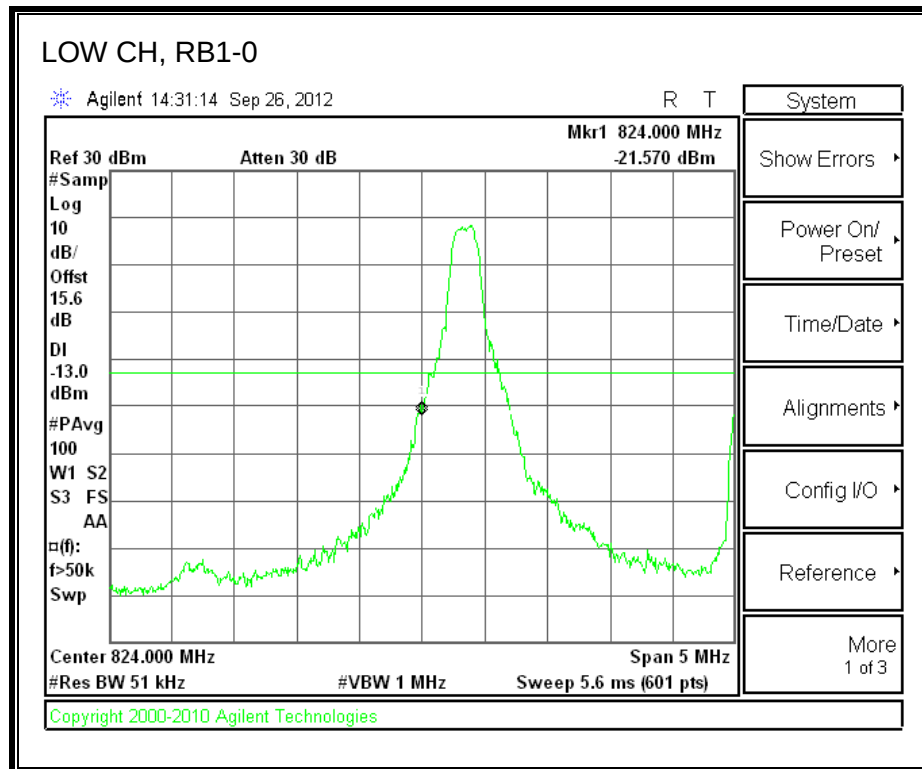
QPSK Band 5 (5 MHz BANDWIDTH)

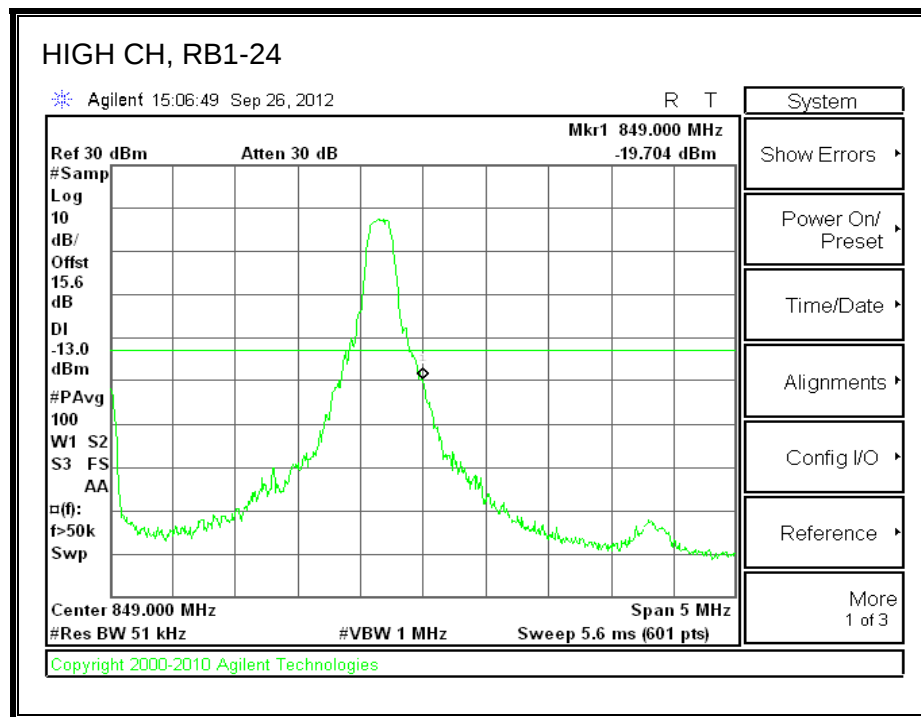
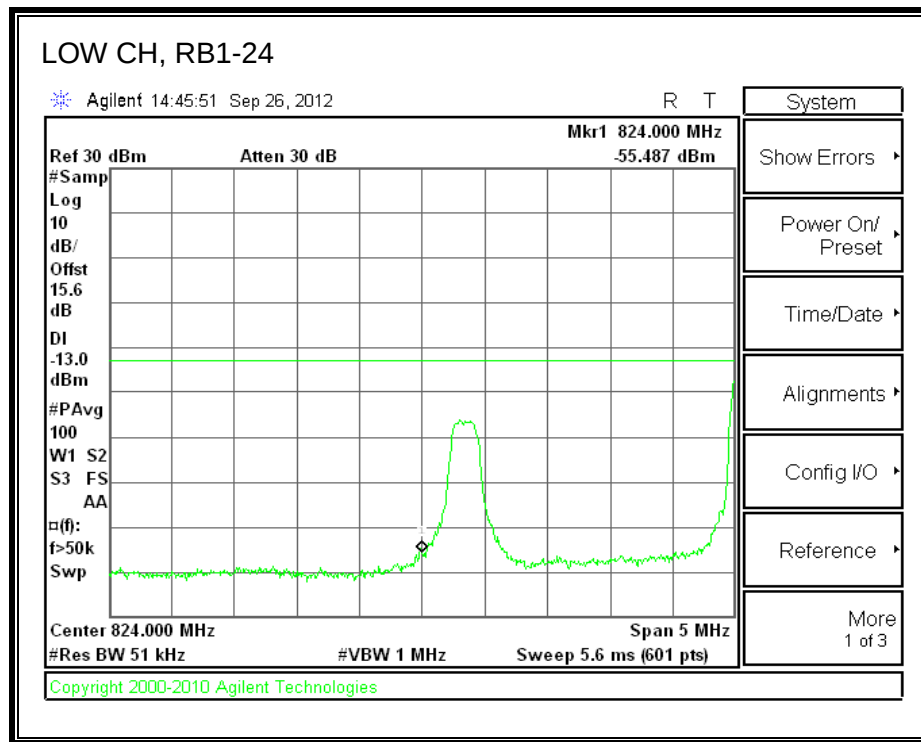


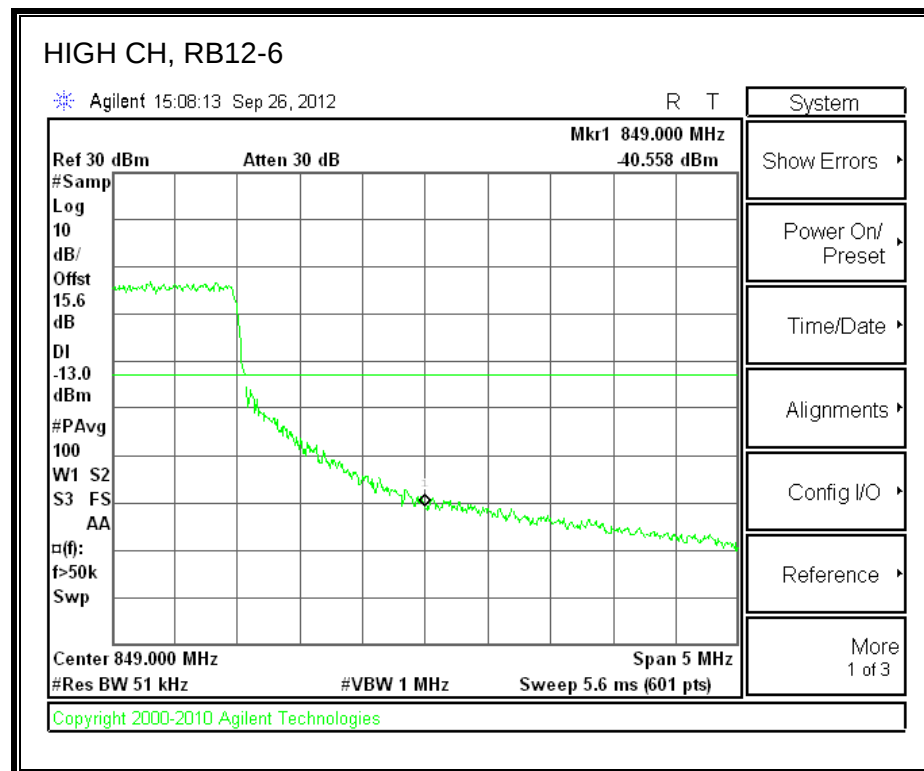
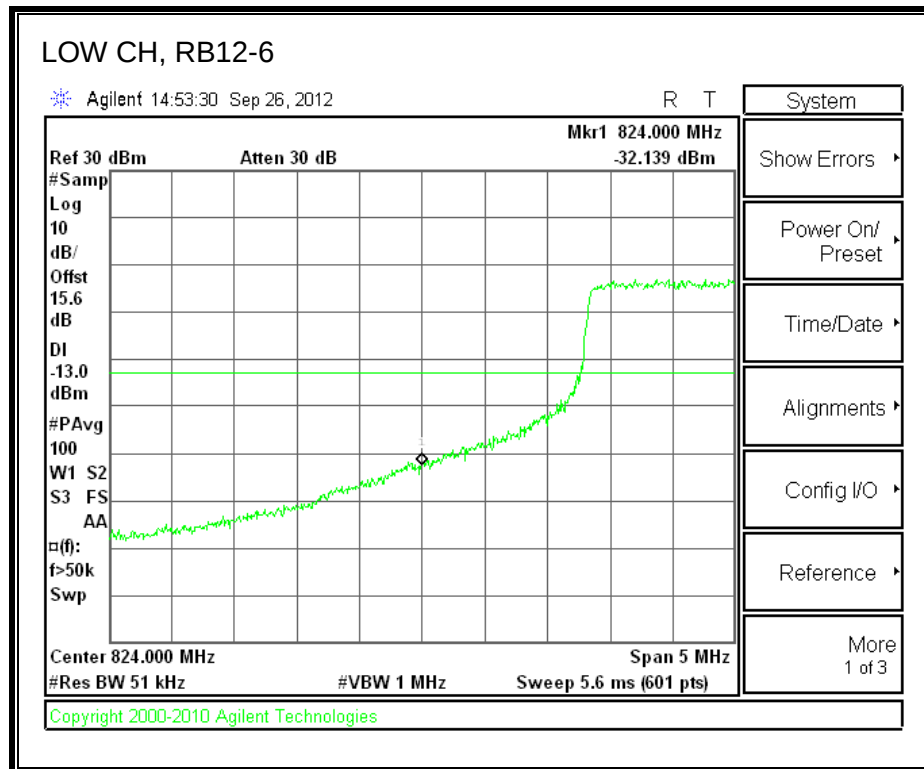


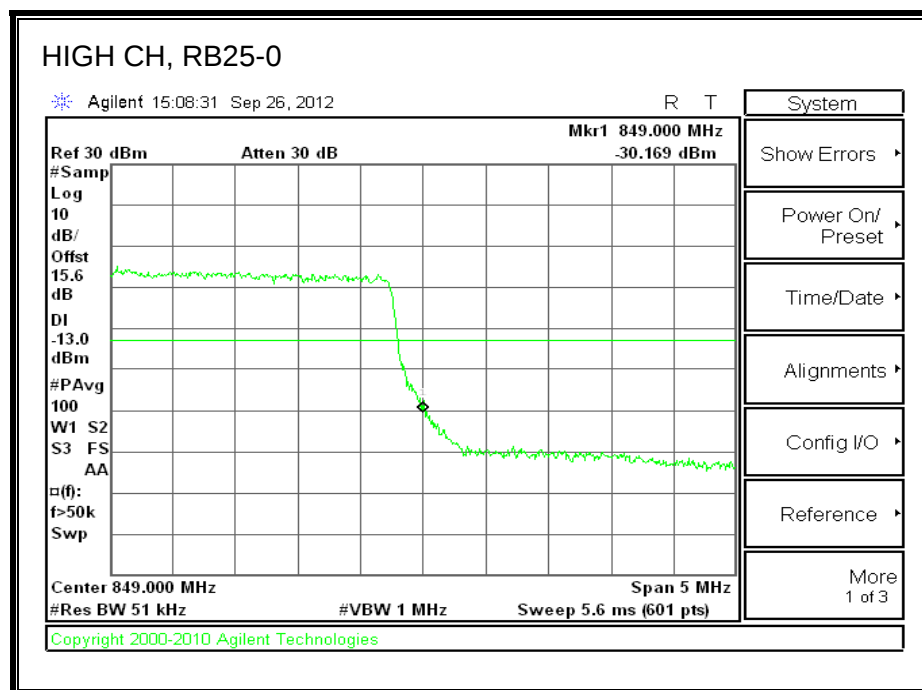
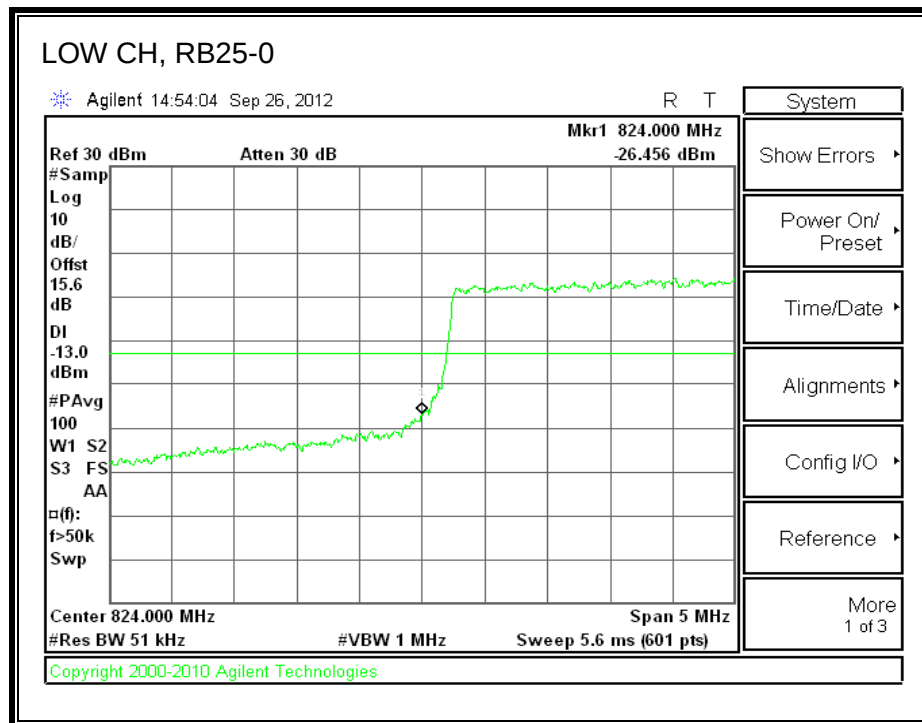


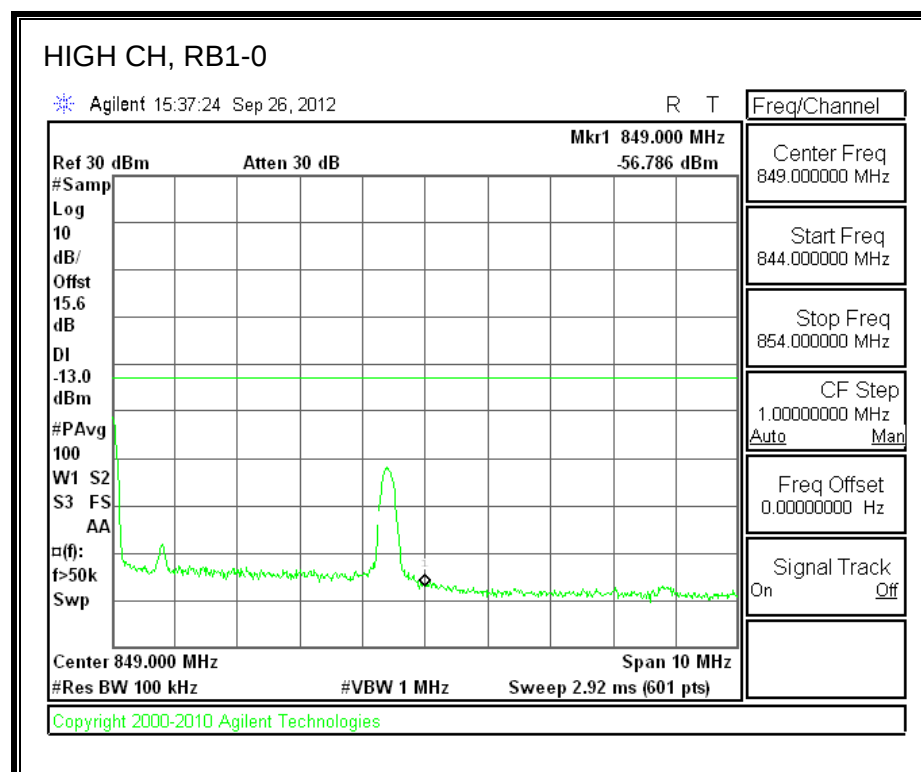
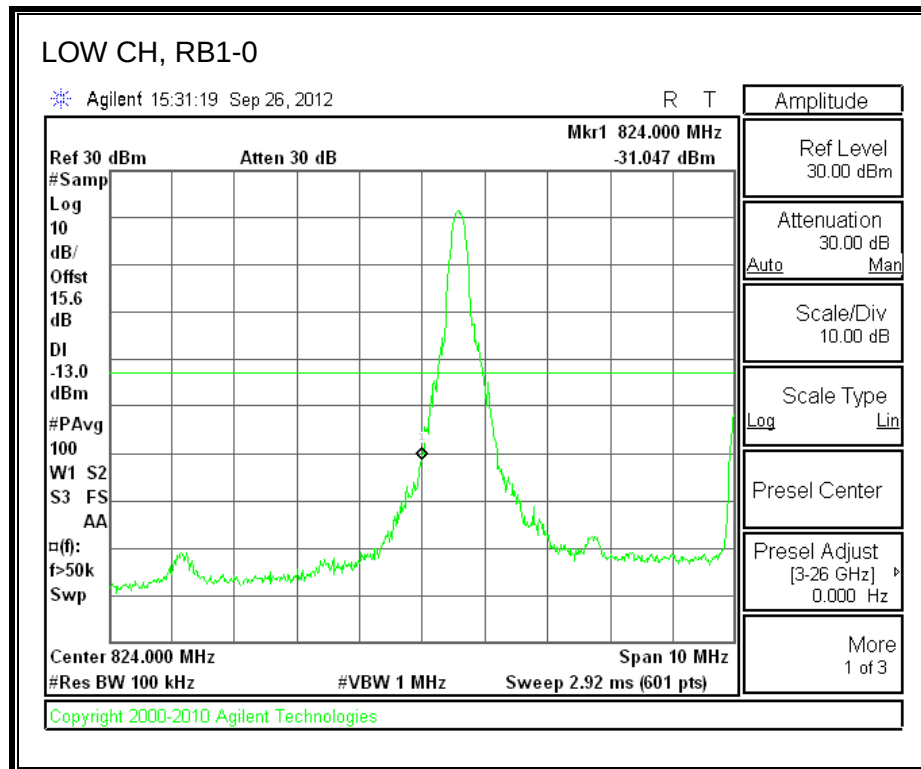
16QAM Band 5 (5 MHz BANDWIDTH)

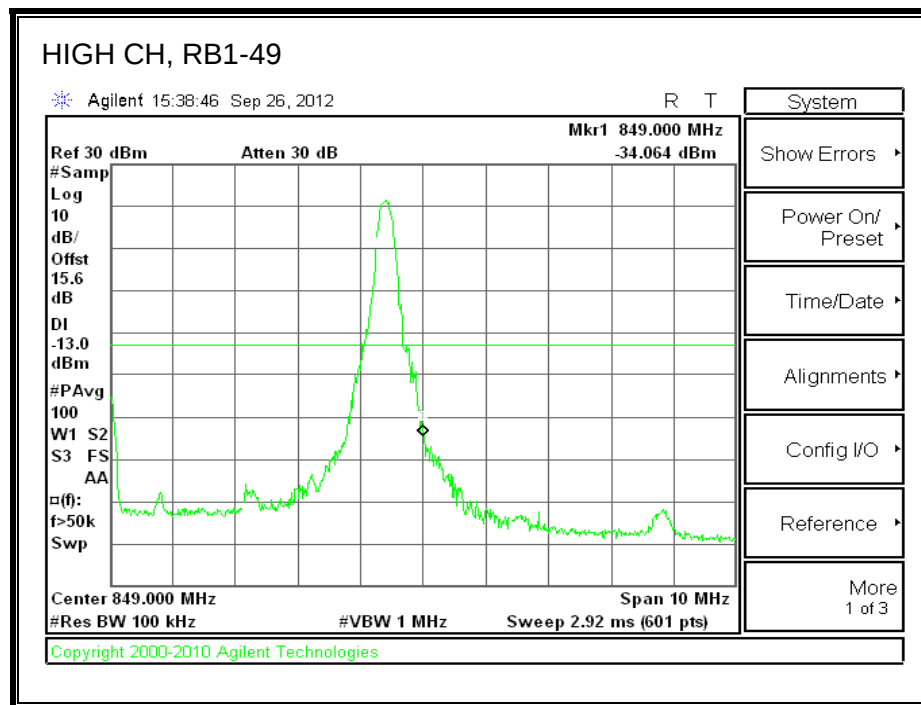
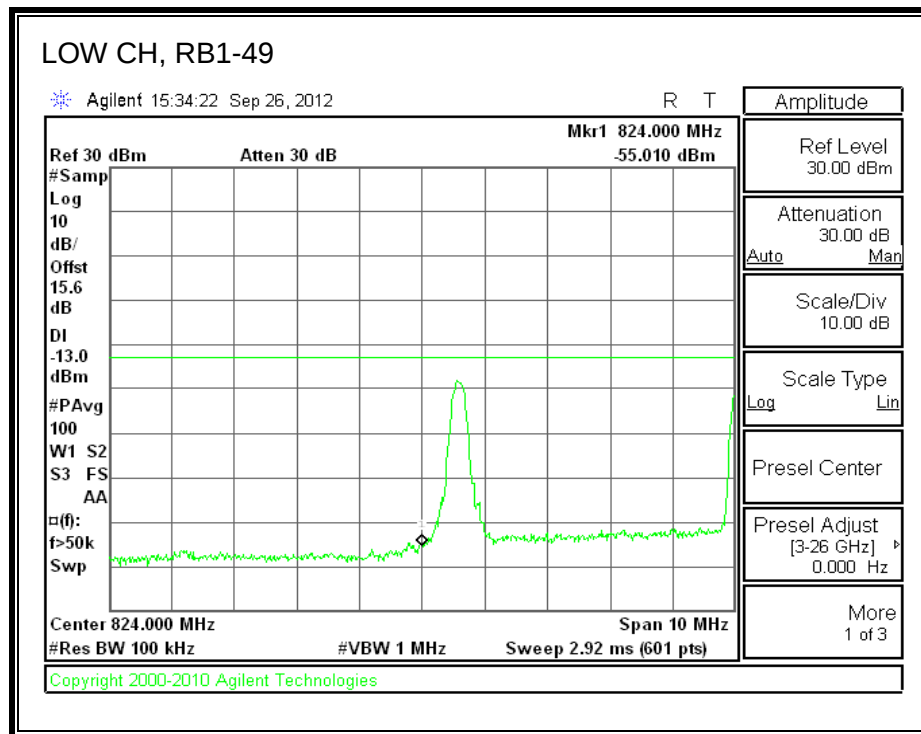


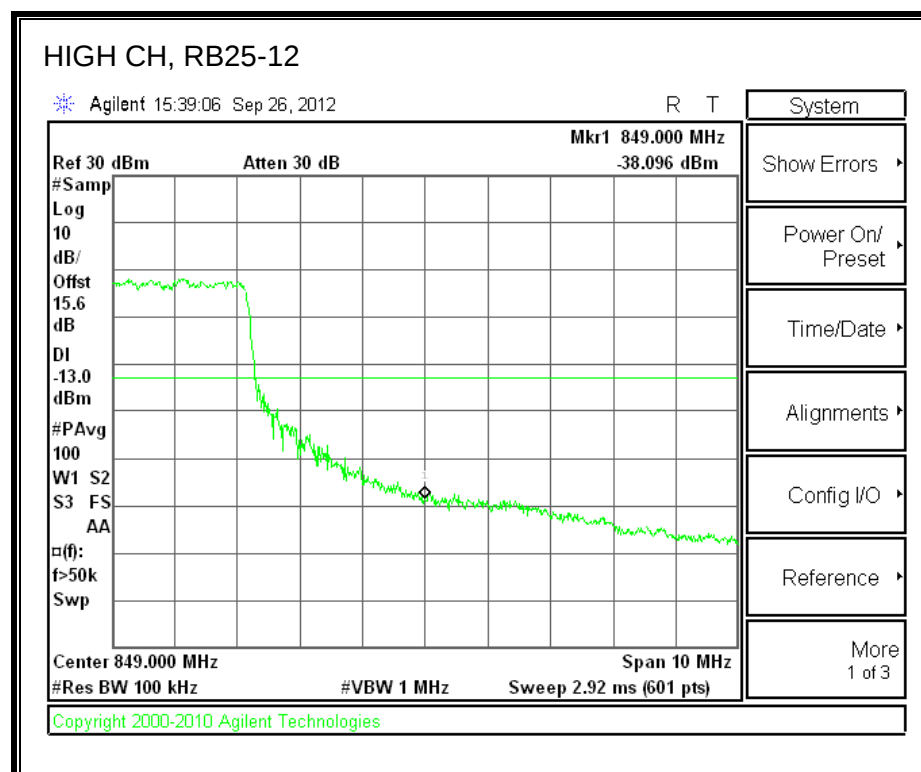
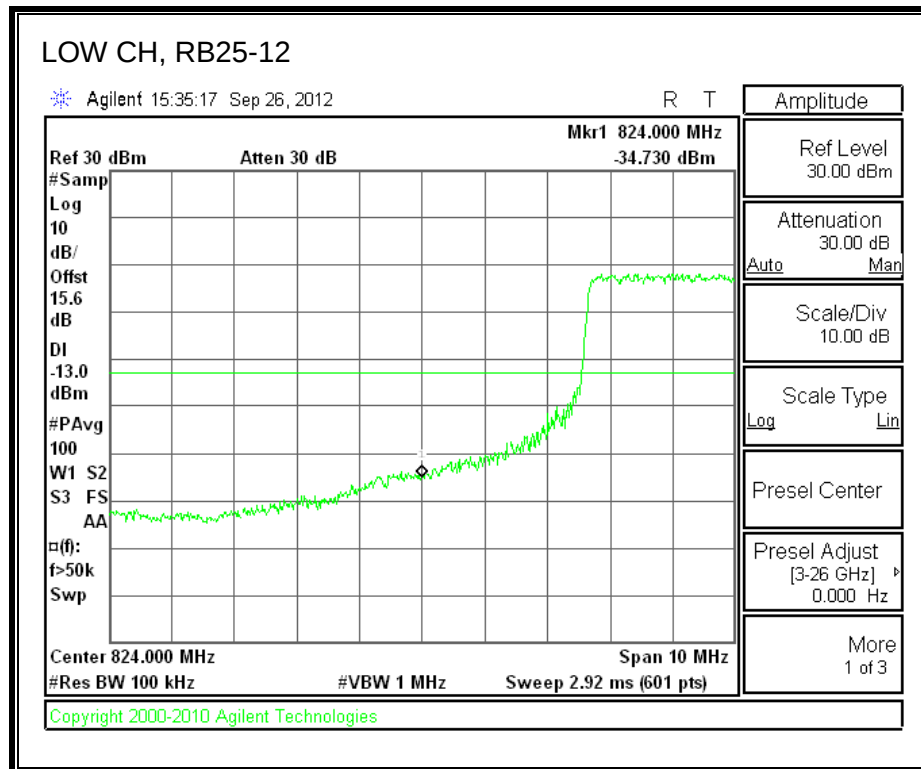


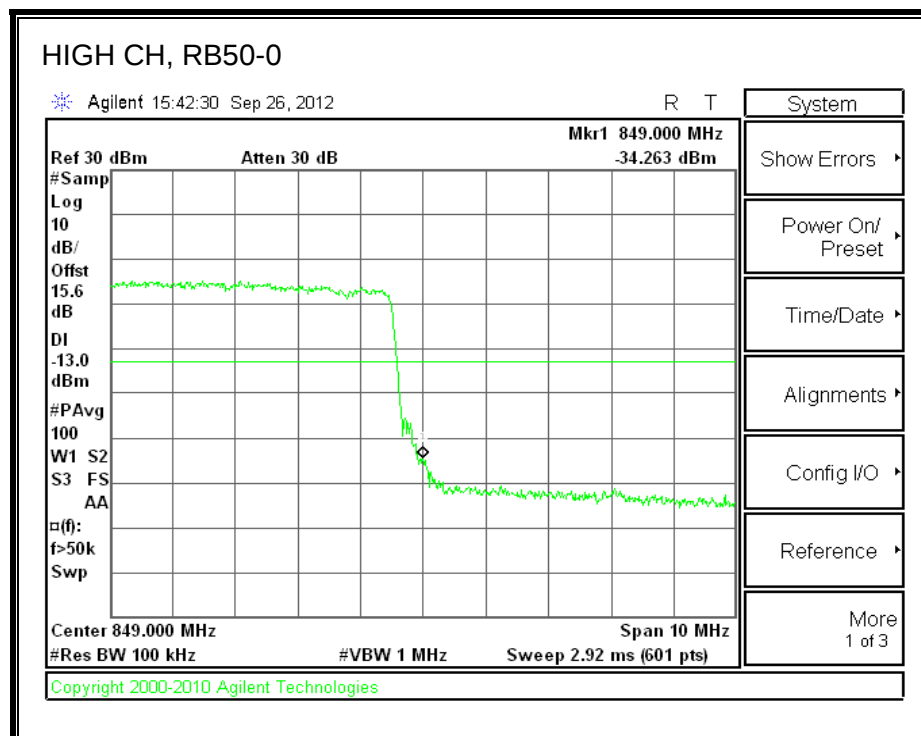
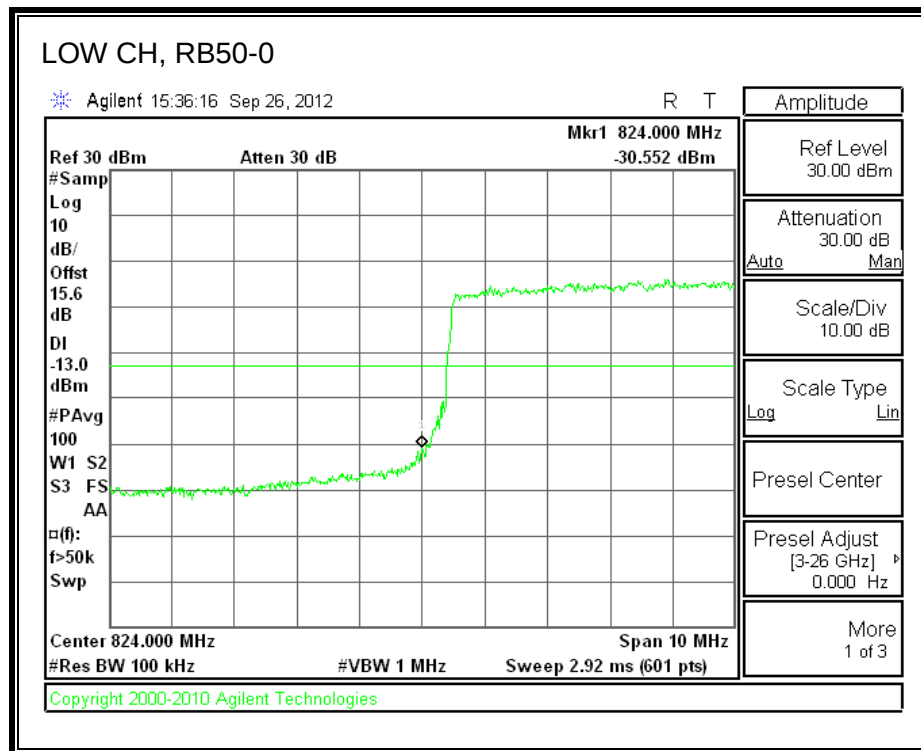


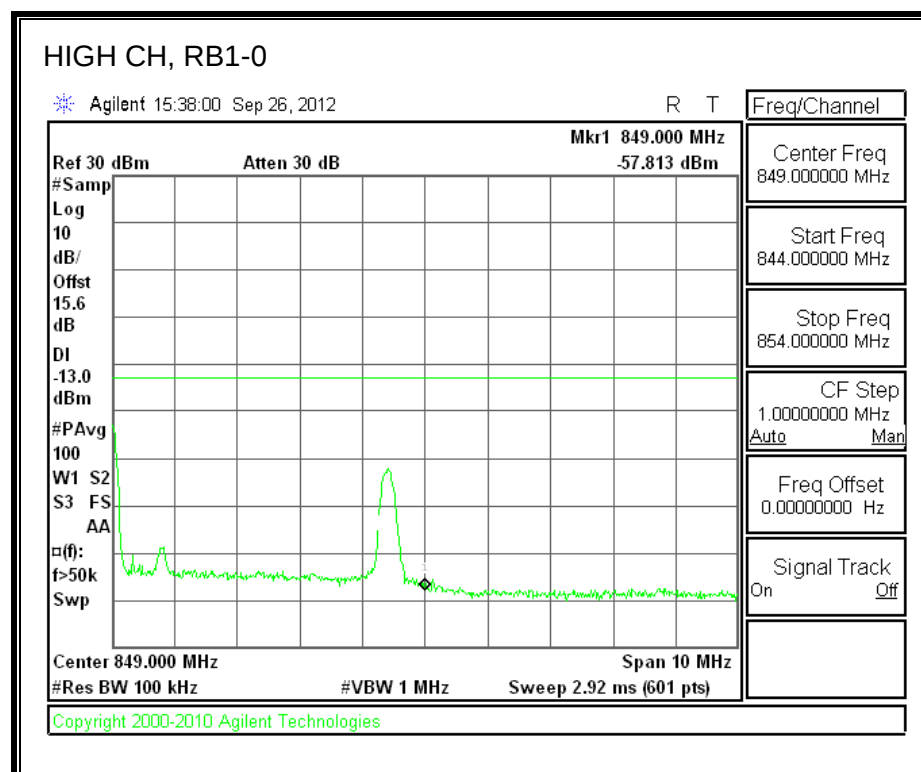
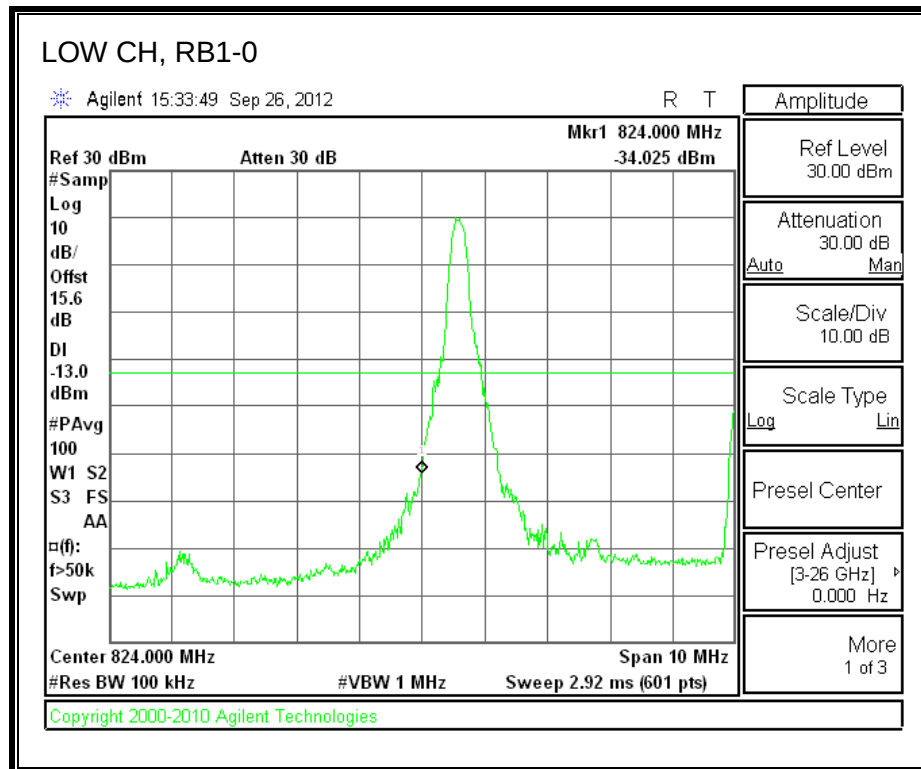


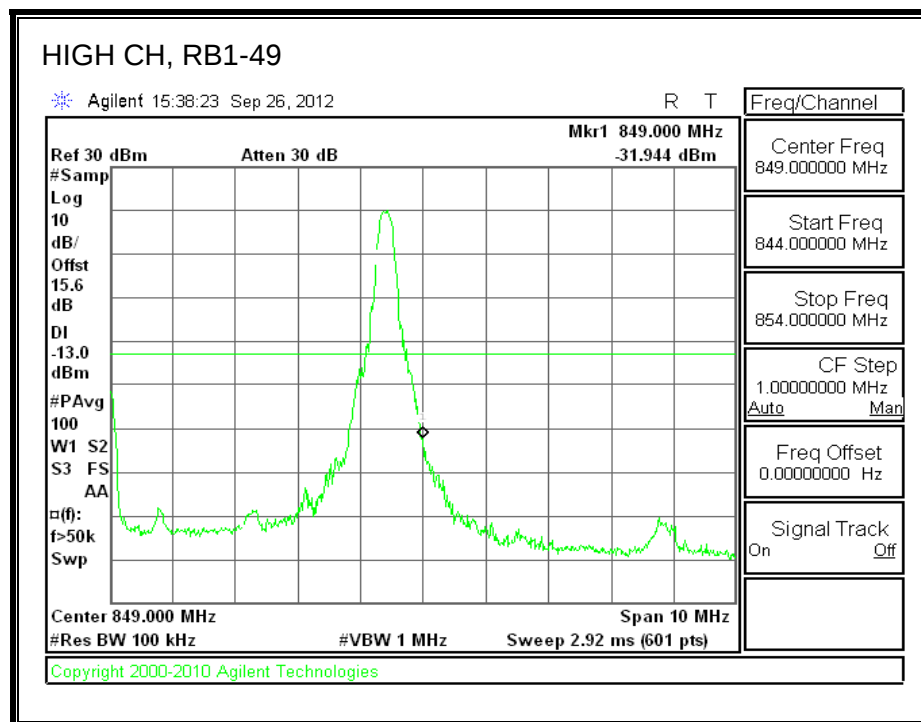
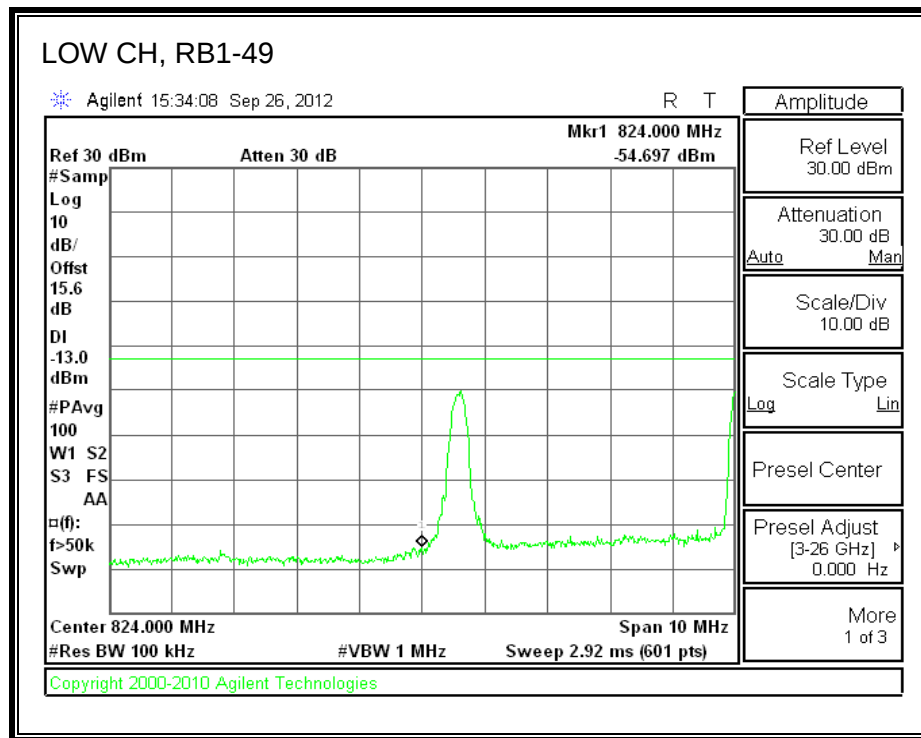
QPSK Band 5 (10 MHz BANDWIDTH)

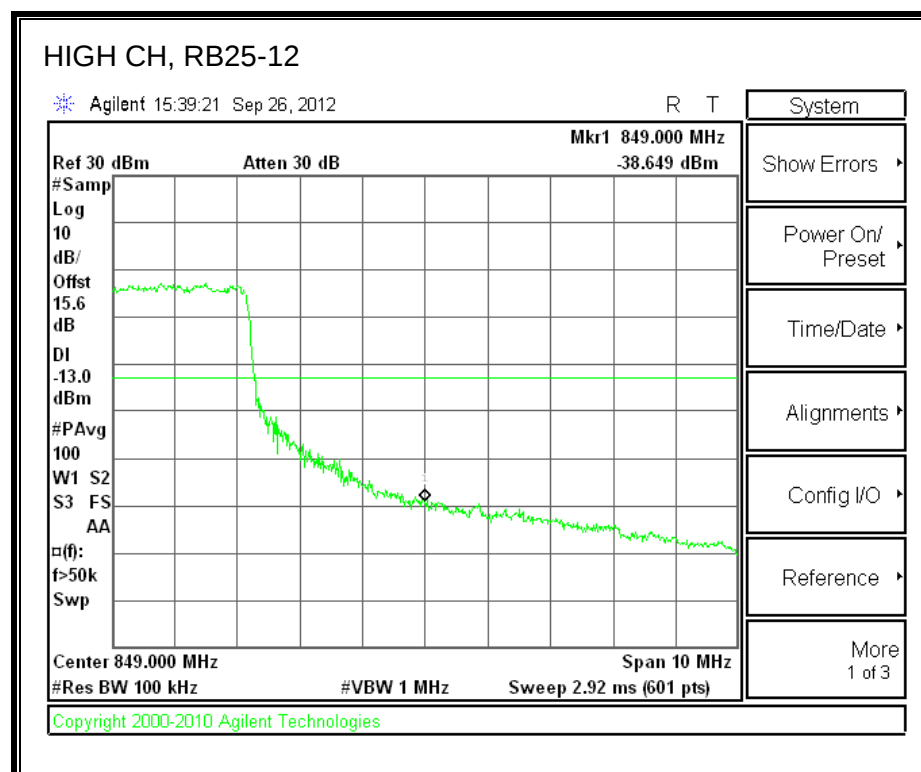
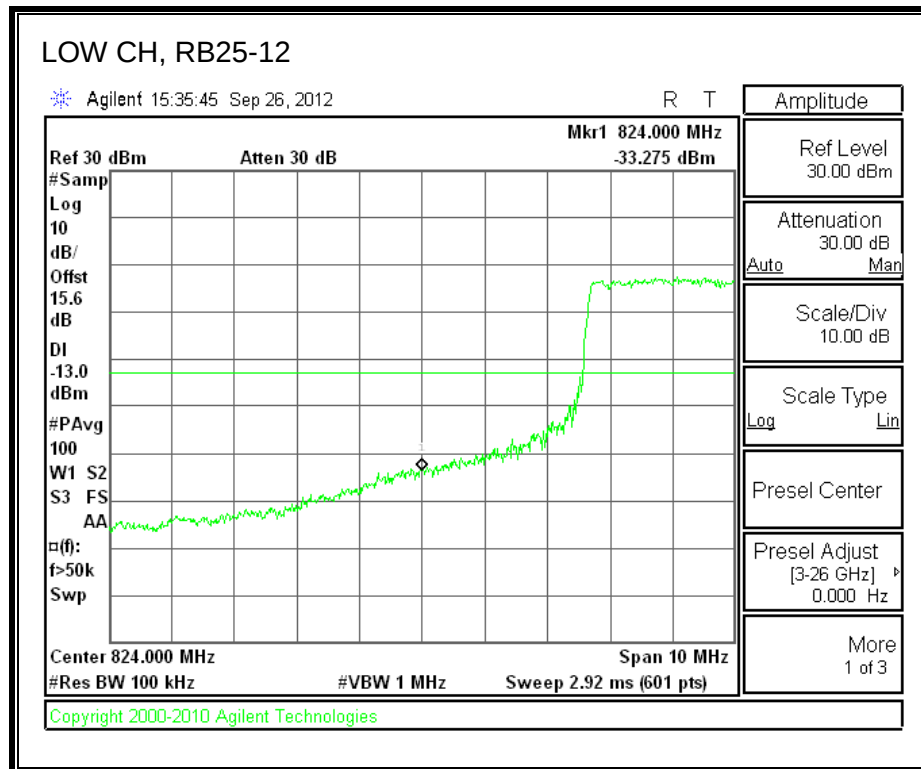


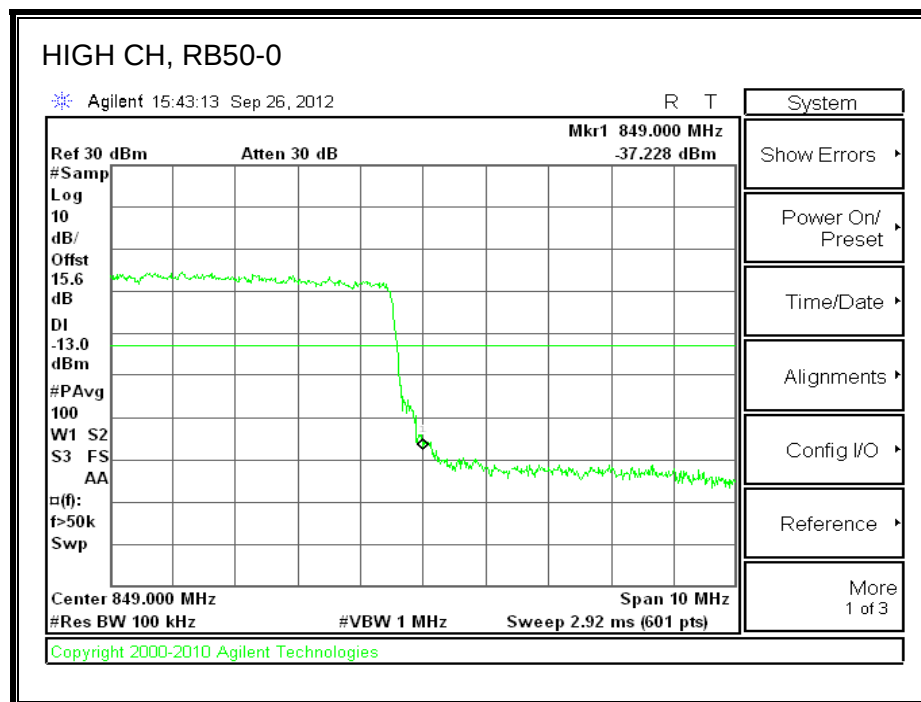
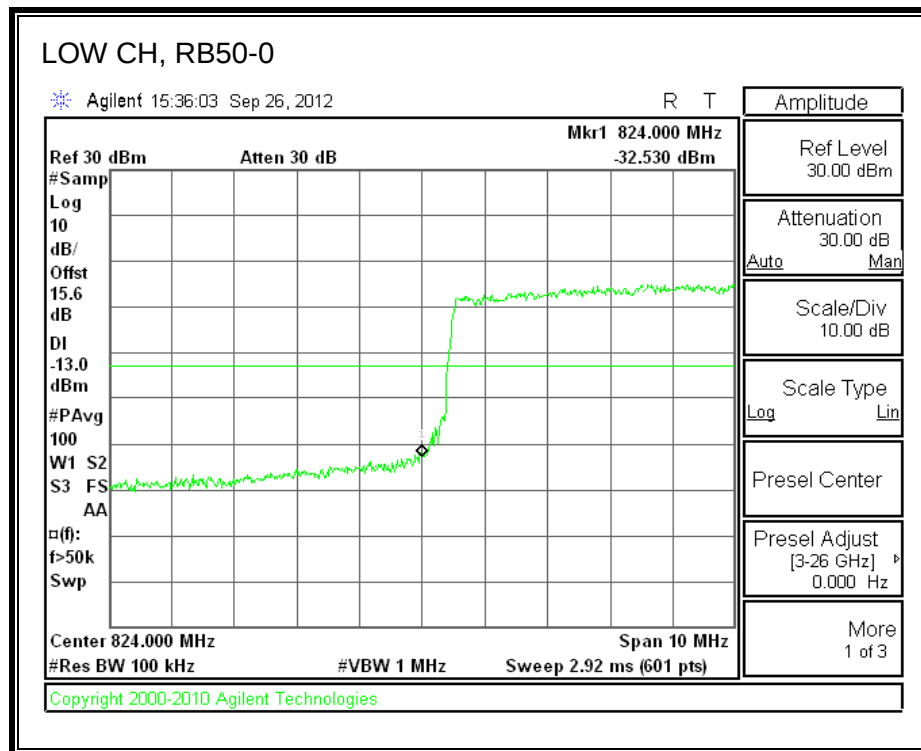


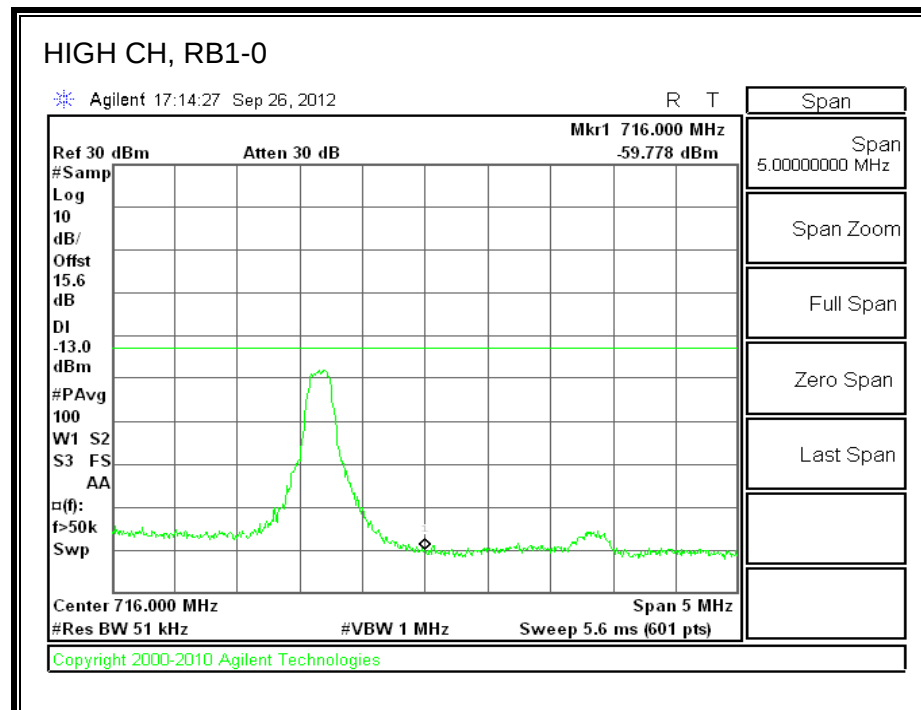
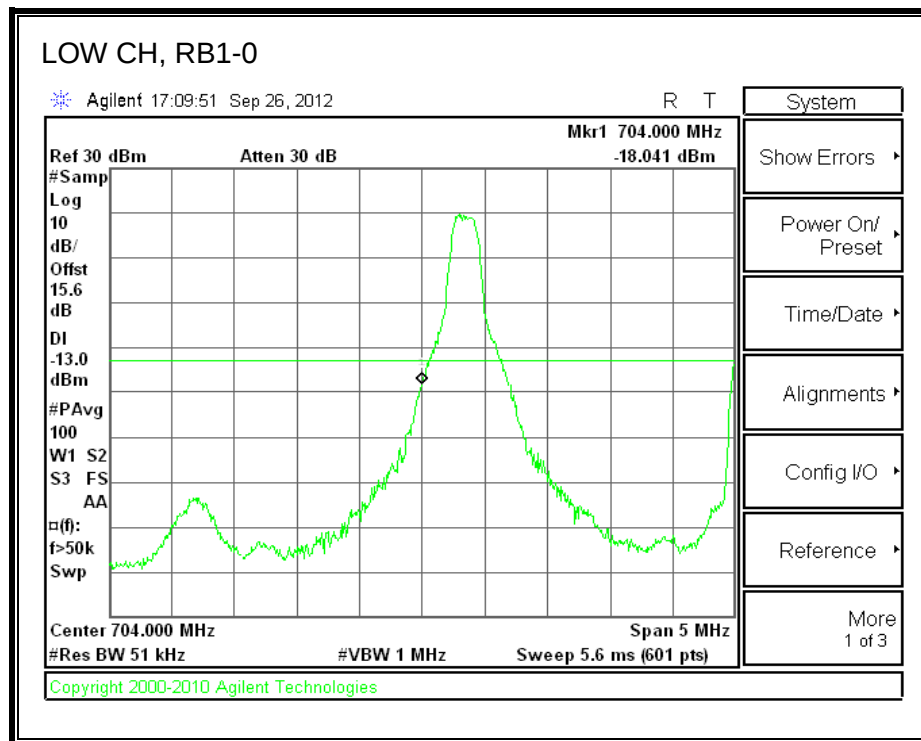


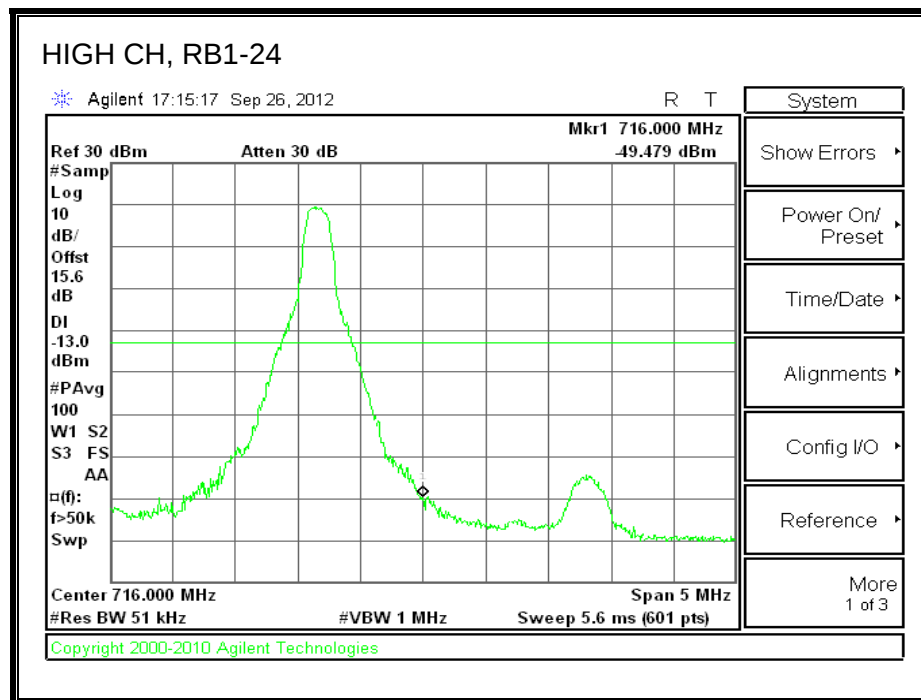
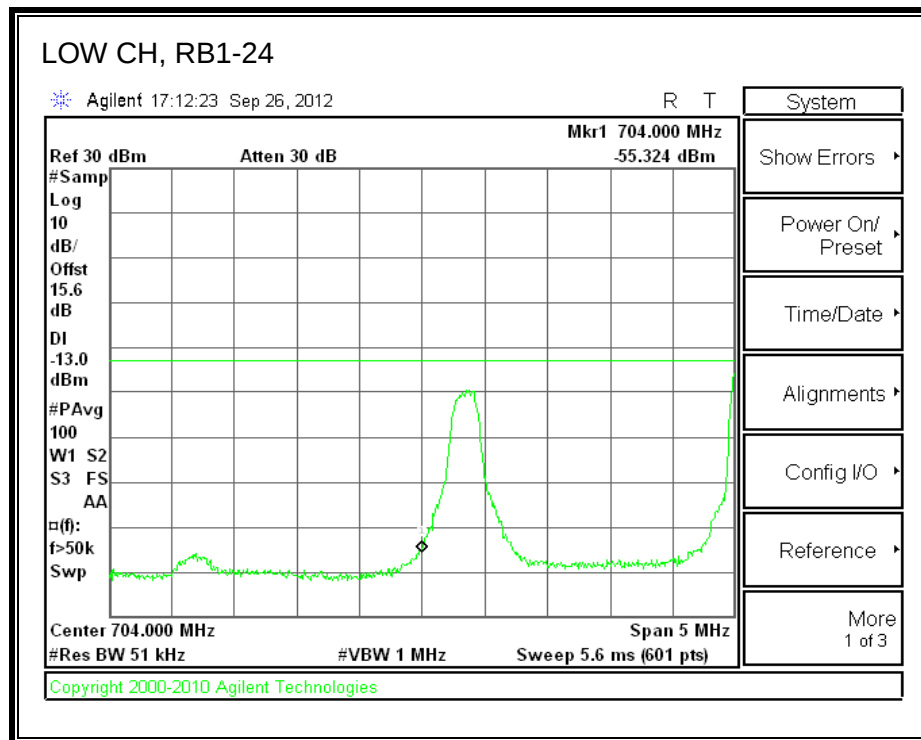
16QAM Band 5 (10 MHz BANDWIDTH)

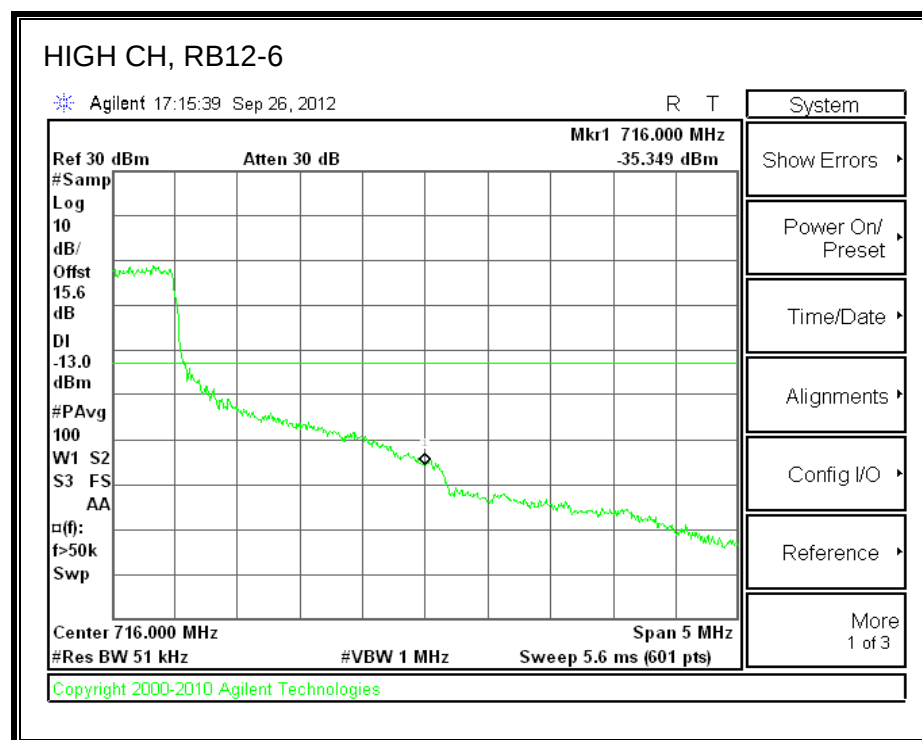
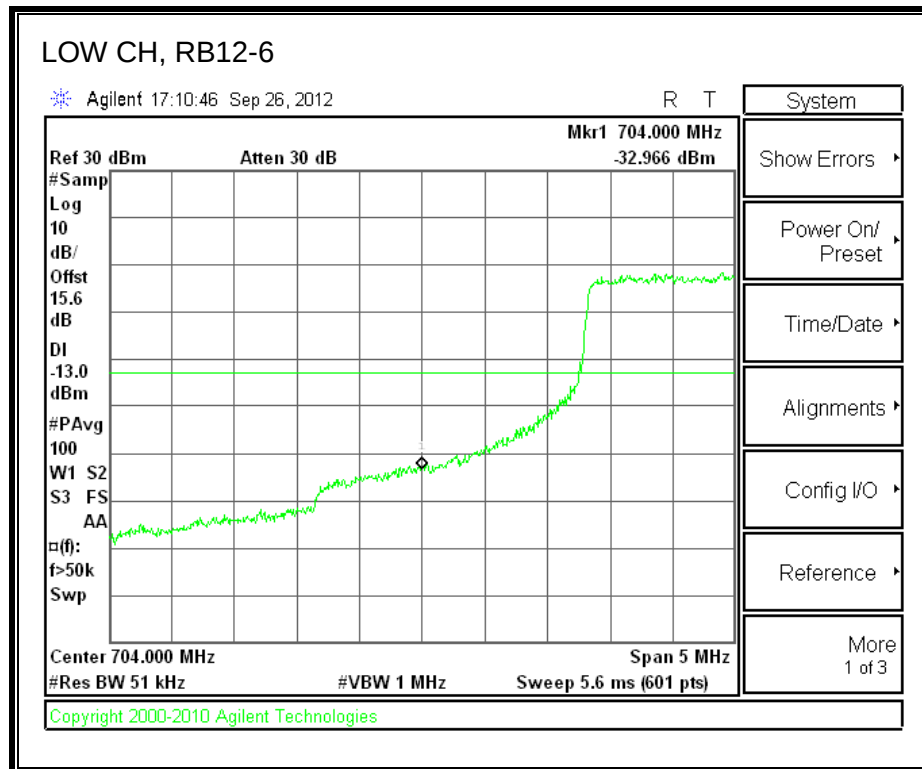


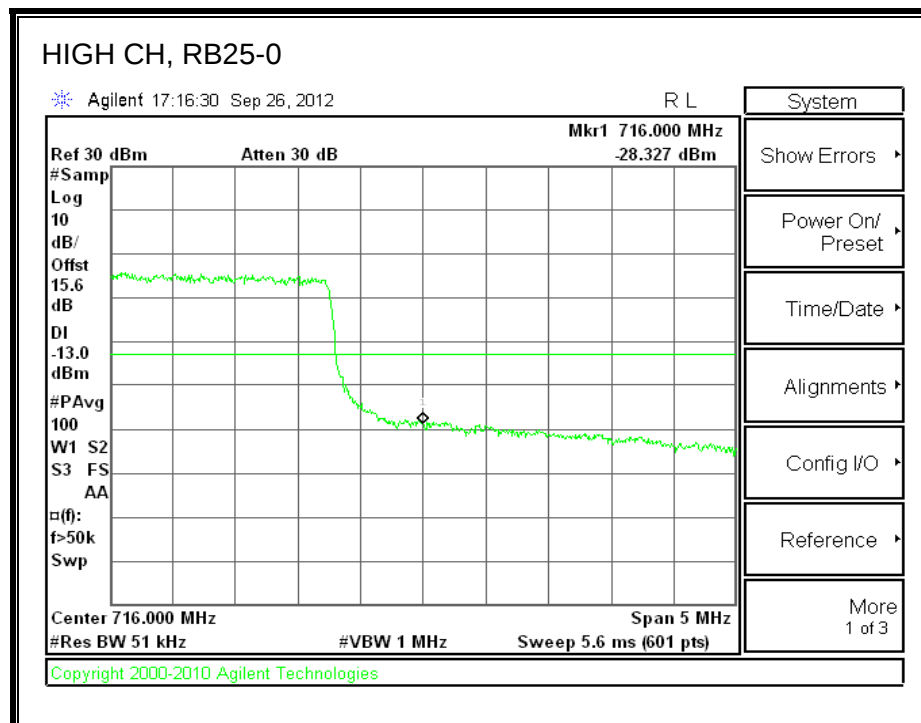
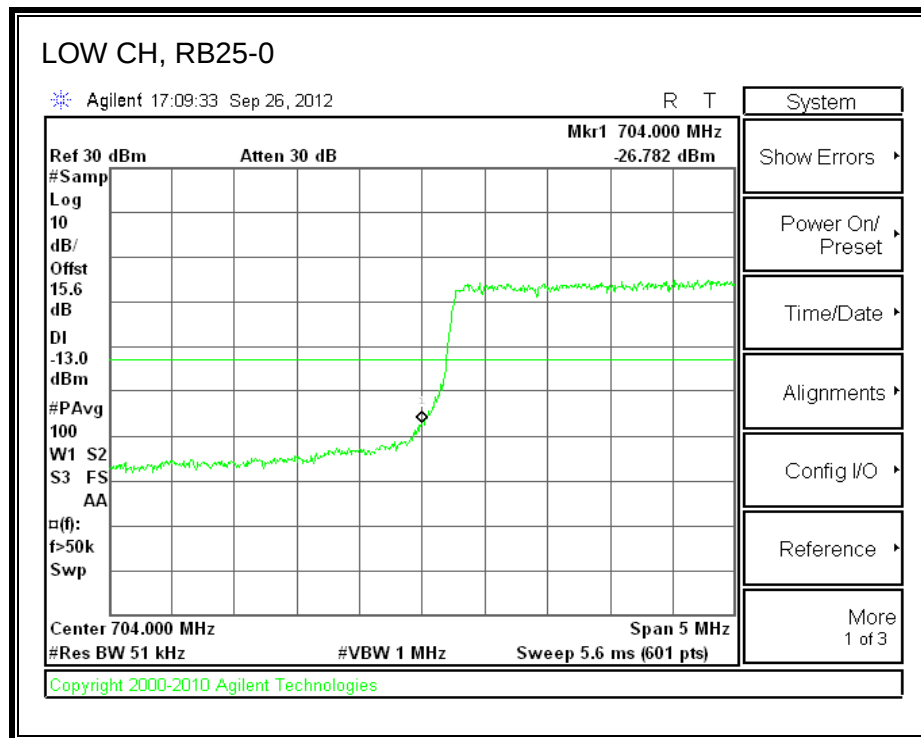




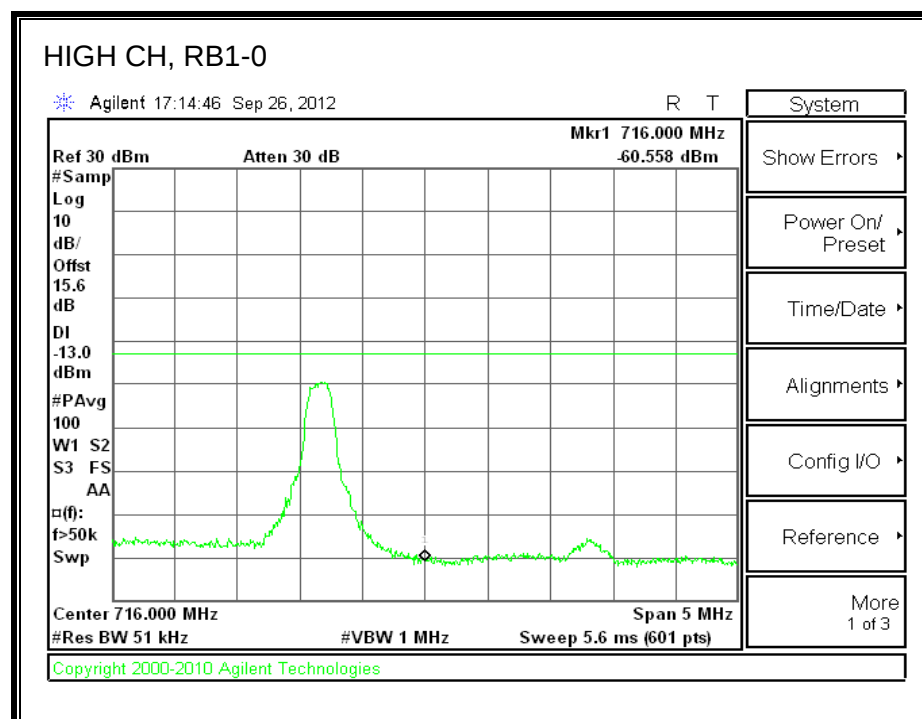
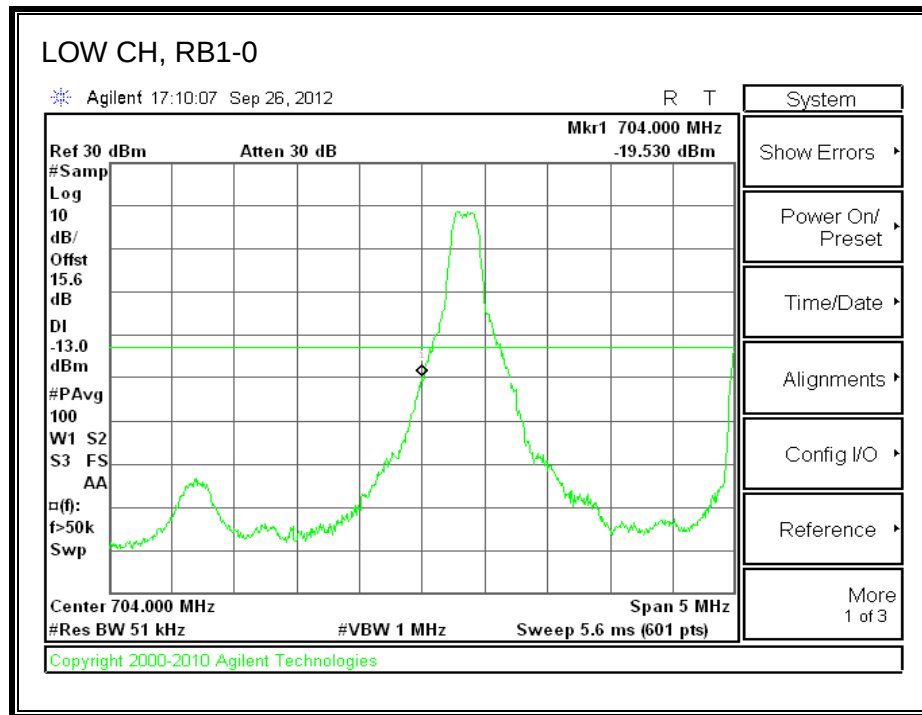
8.2.4. LTE BAND 17**QPSK Band 17 (5 MHz BANDWIDTH)**

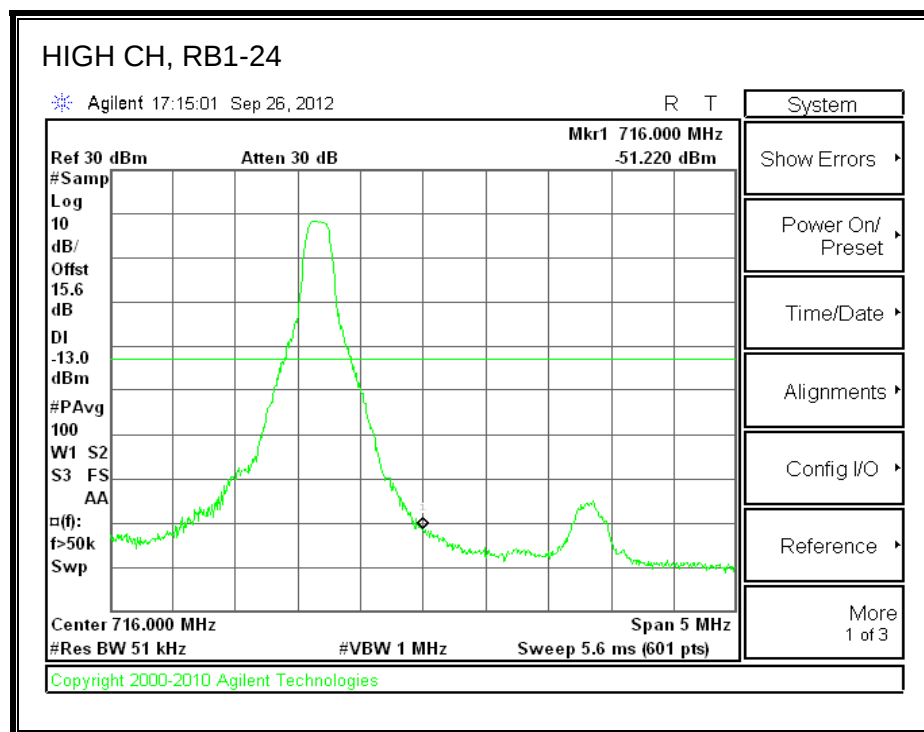
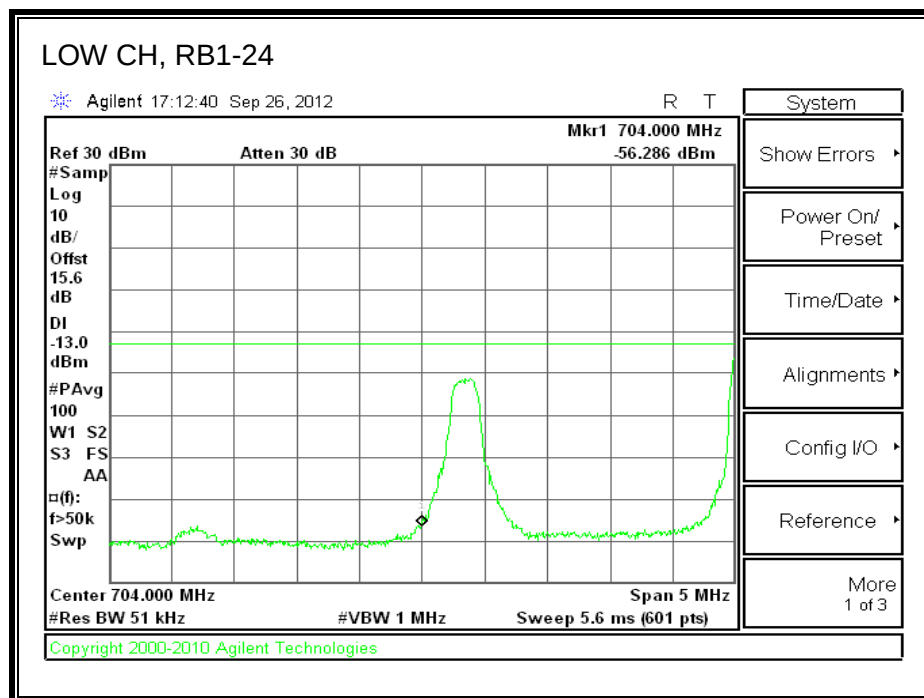


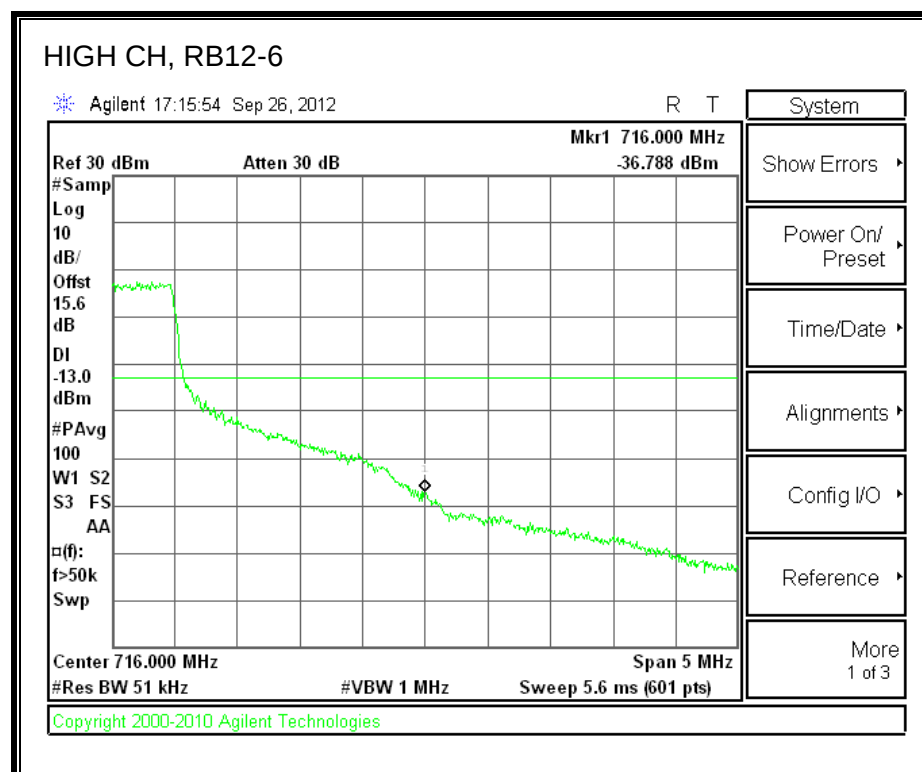
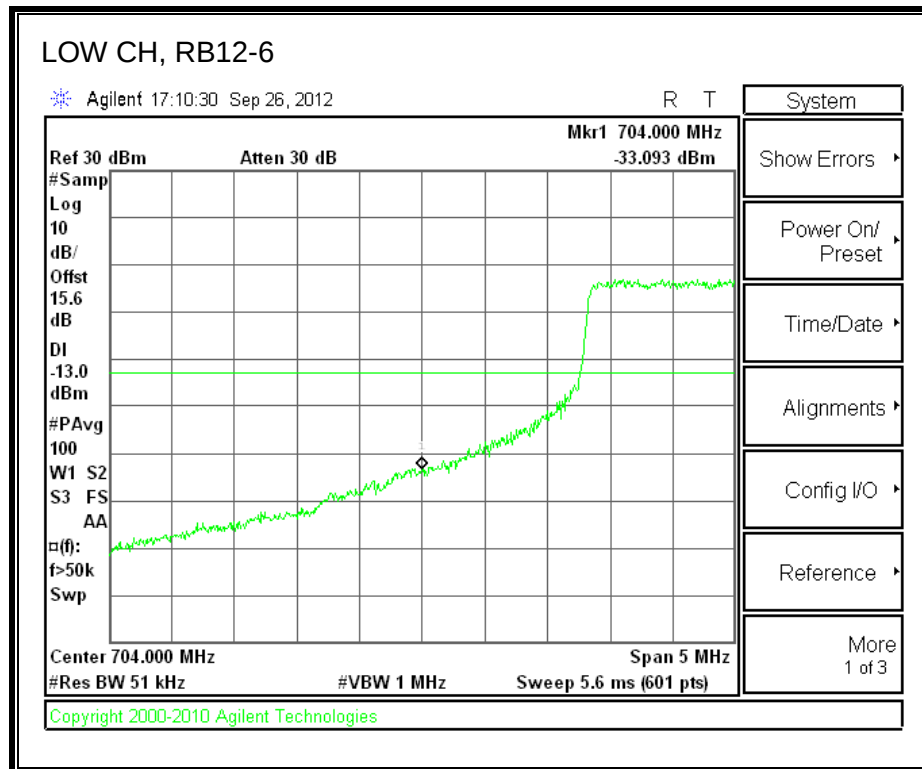


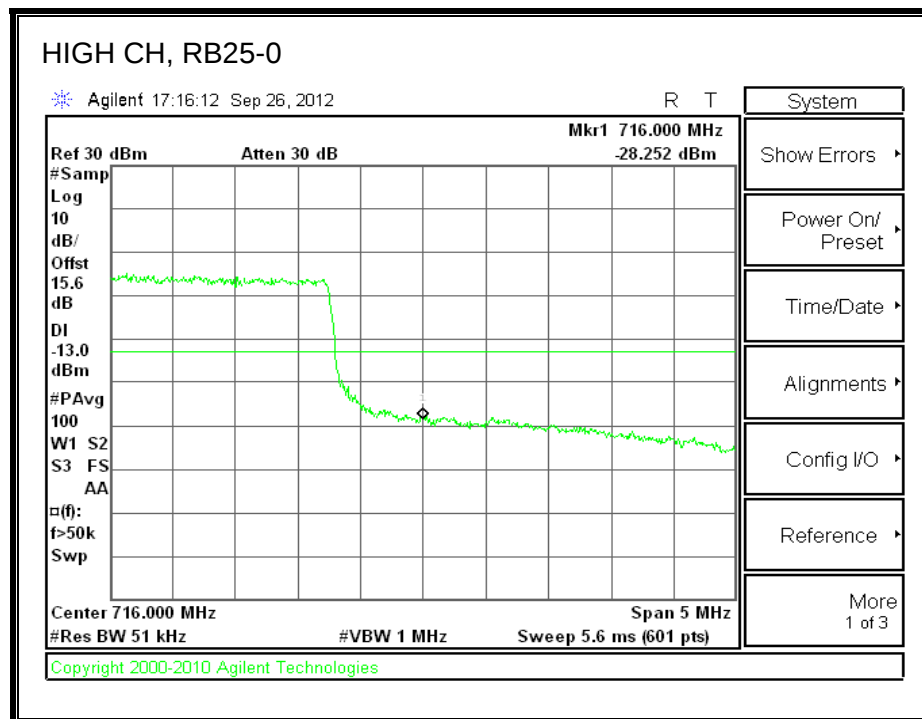
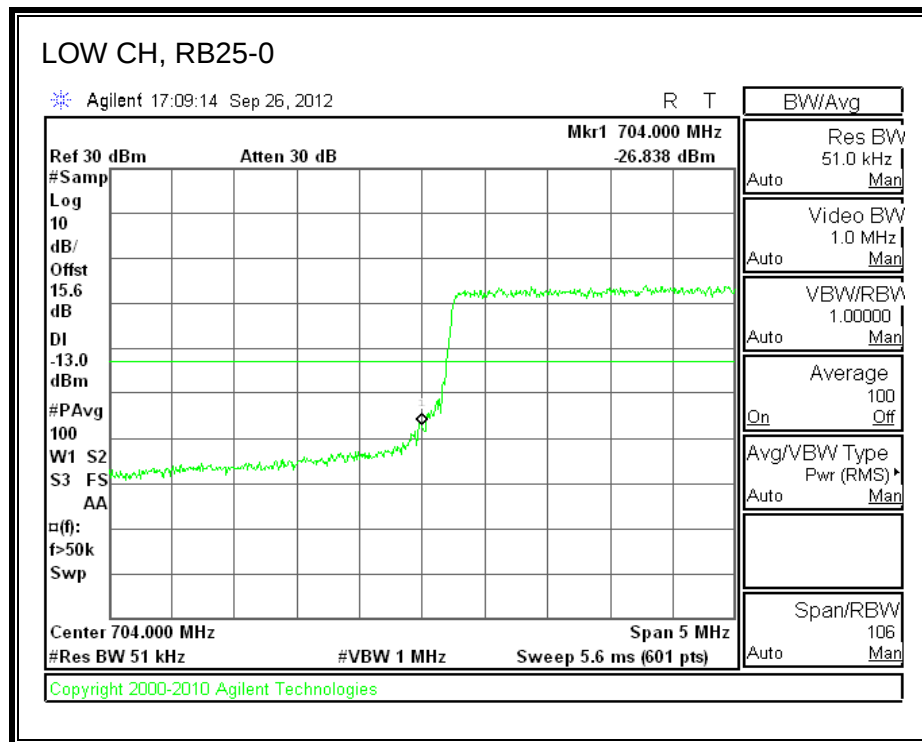


16QAM Band 17 (5 MHz BANDWIDTH)

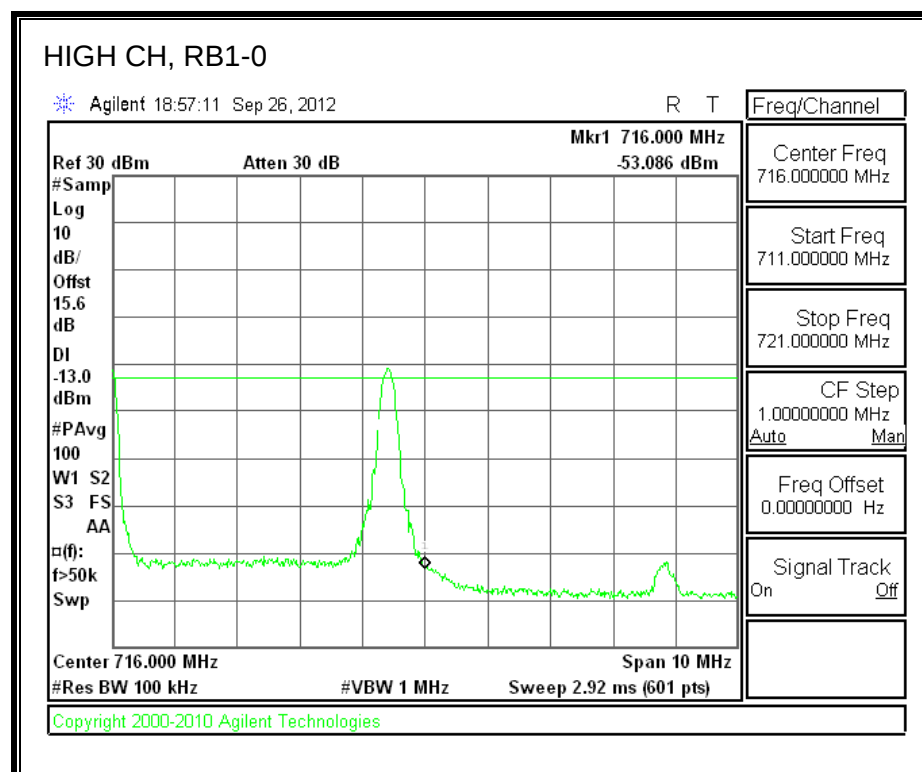
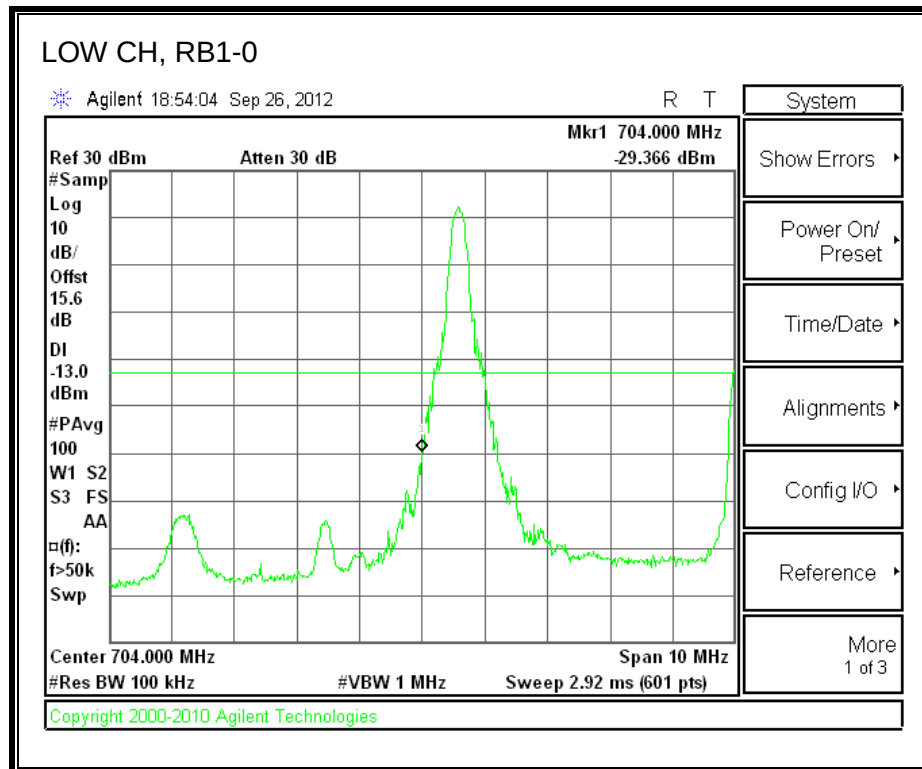


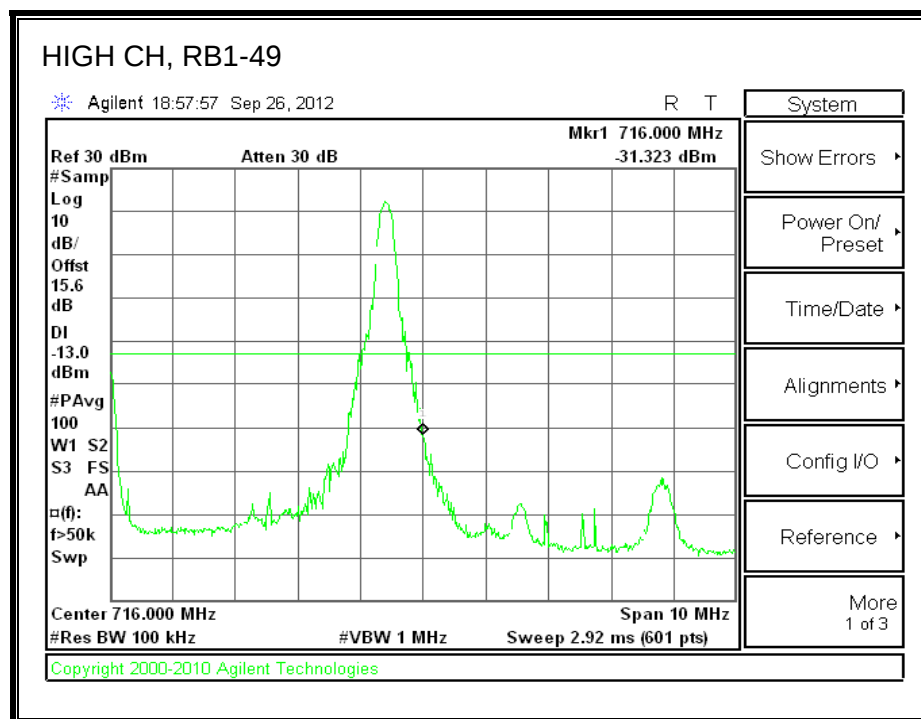
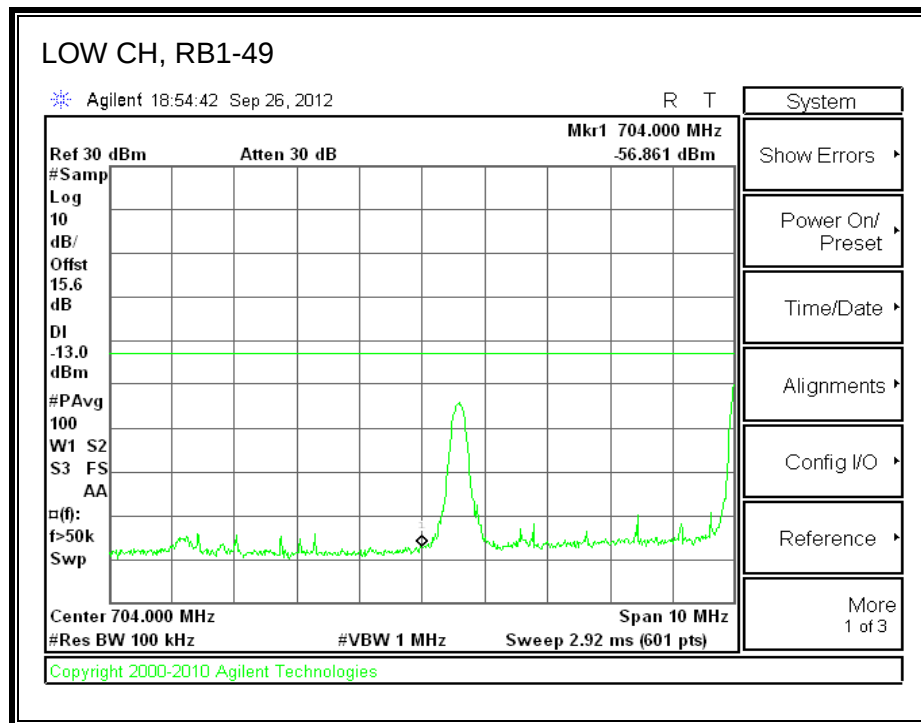


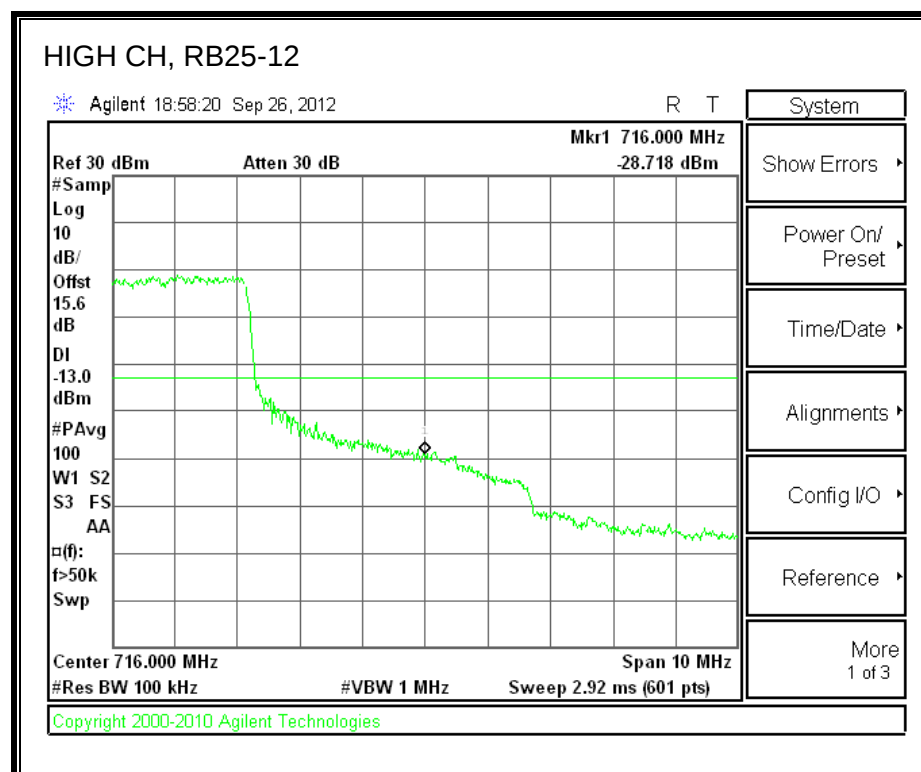
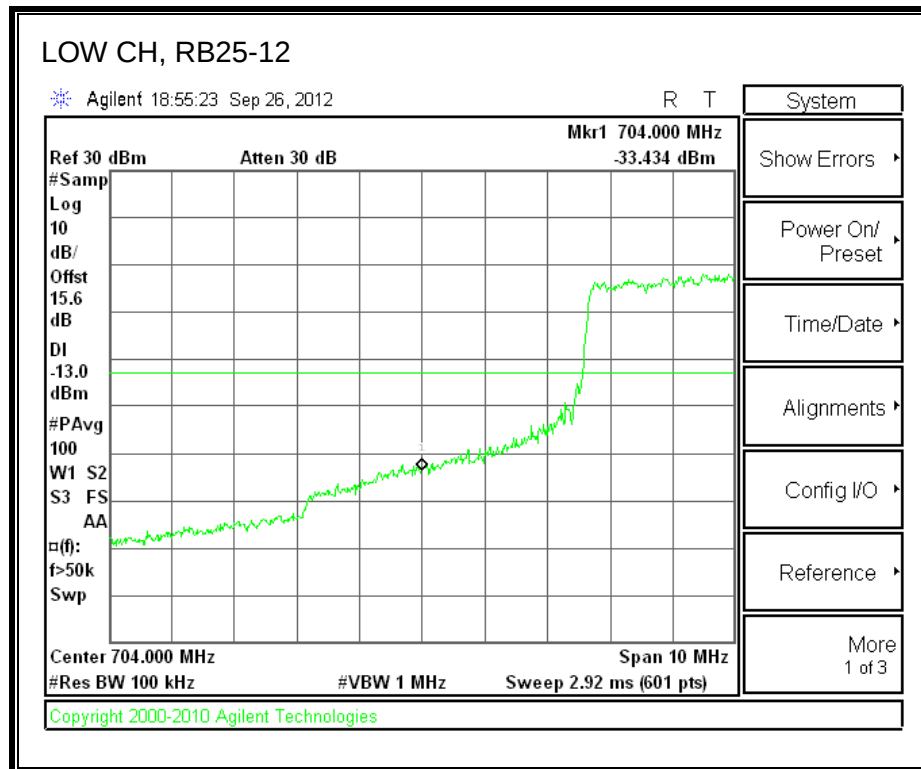


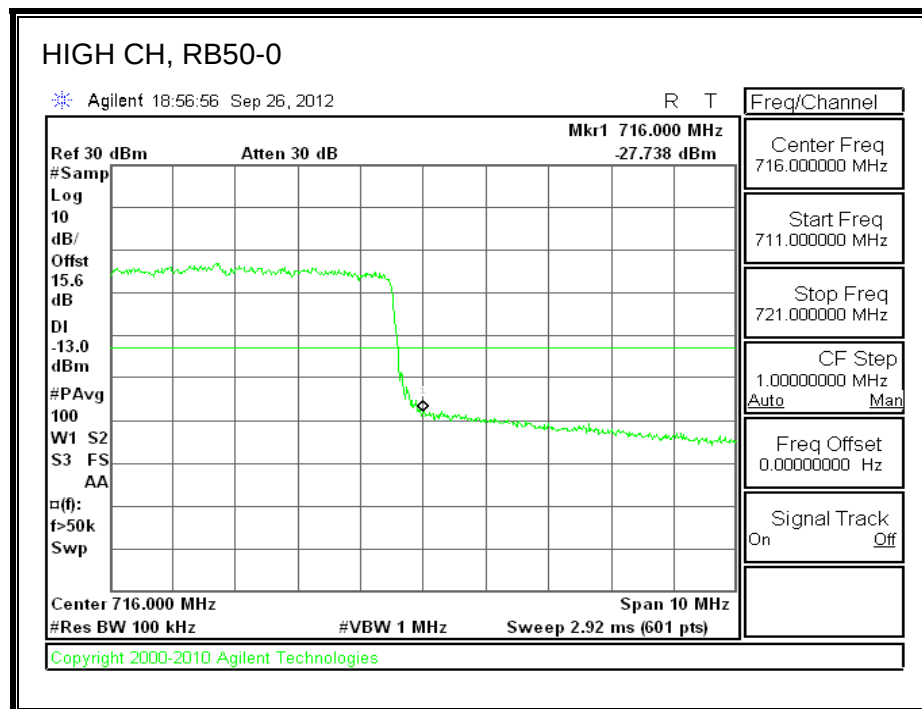
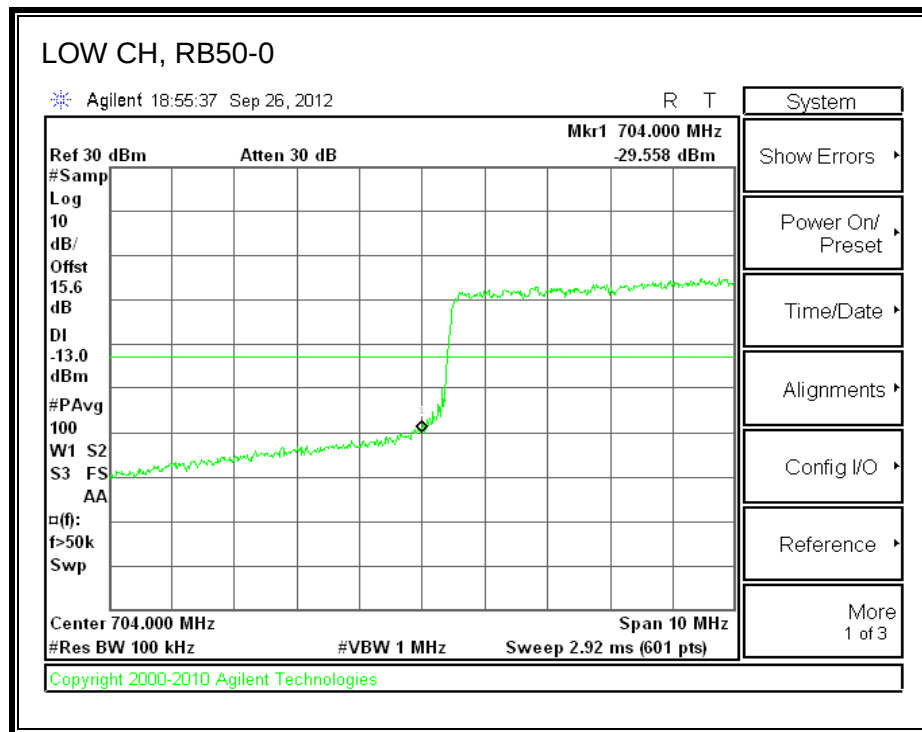


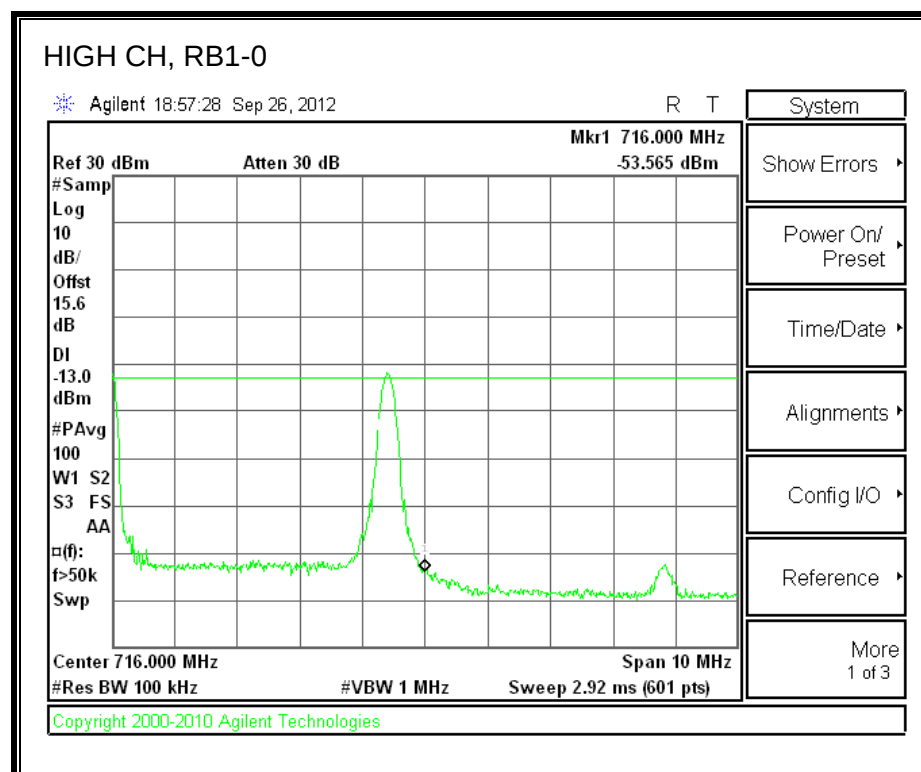
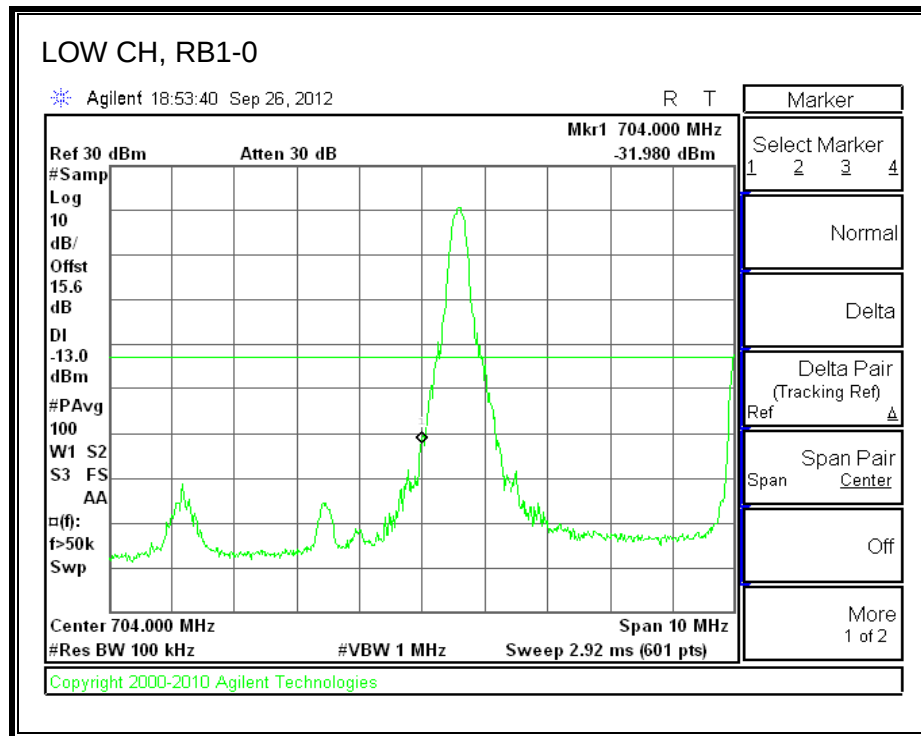
QPSK Band 17 (10 MHz BANDWIDTH)

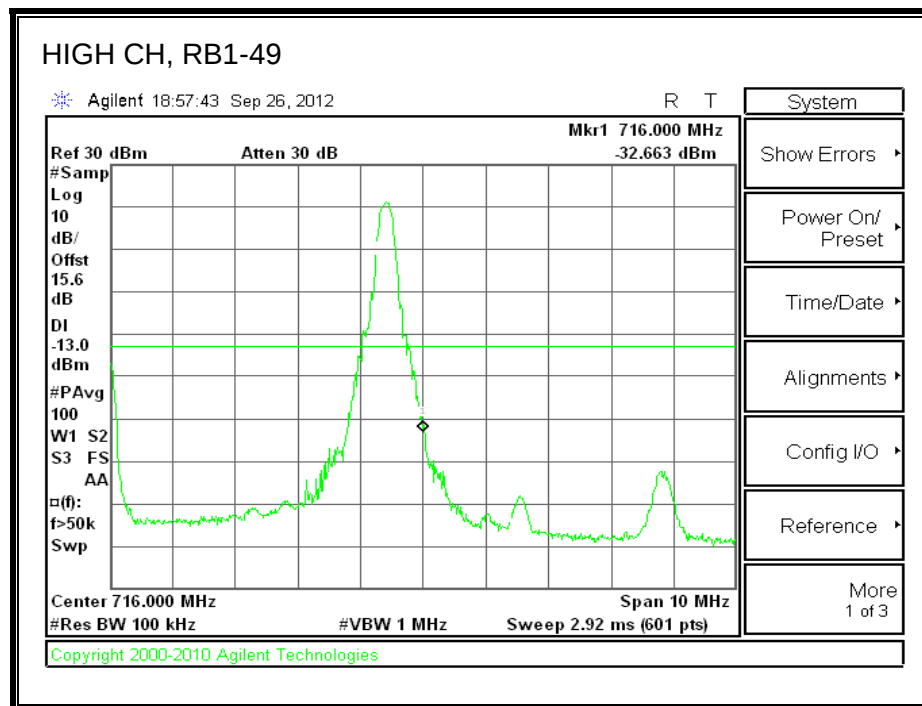
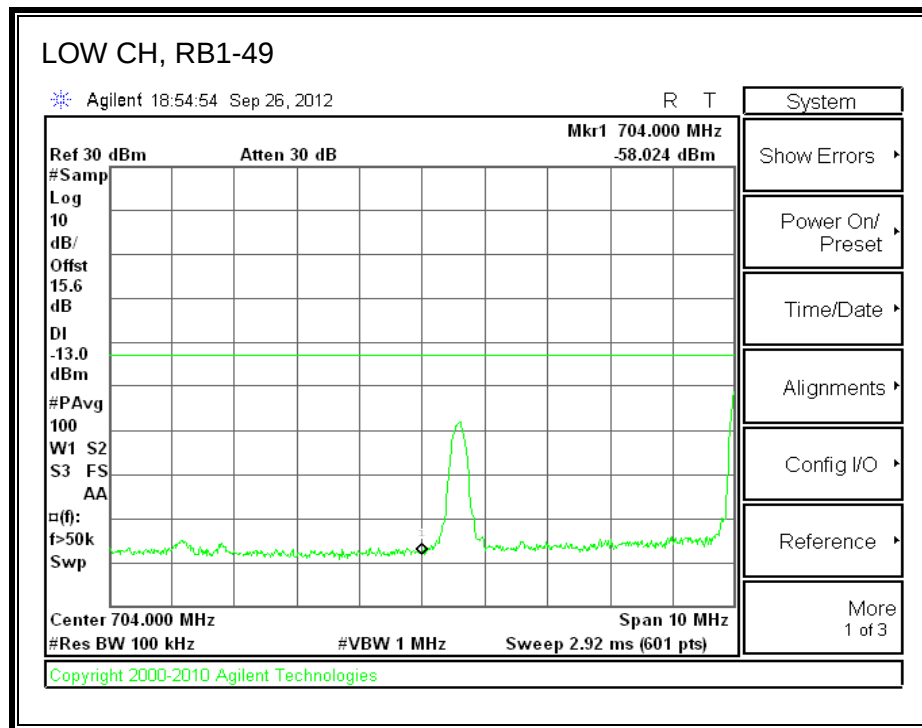


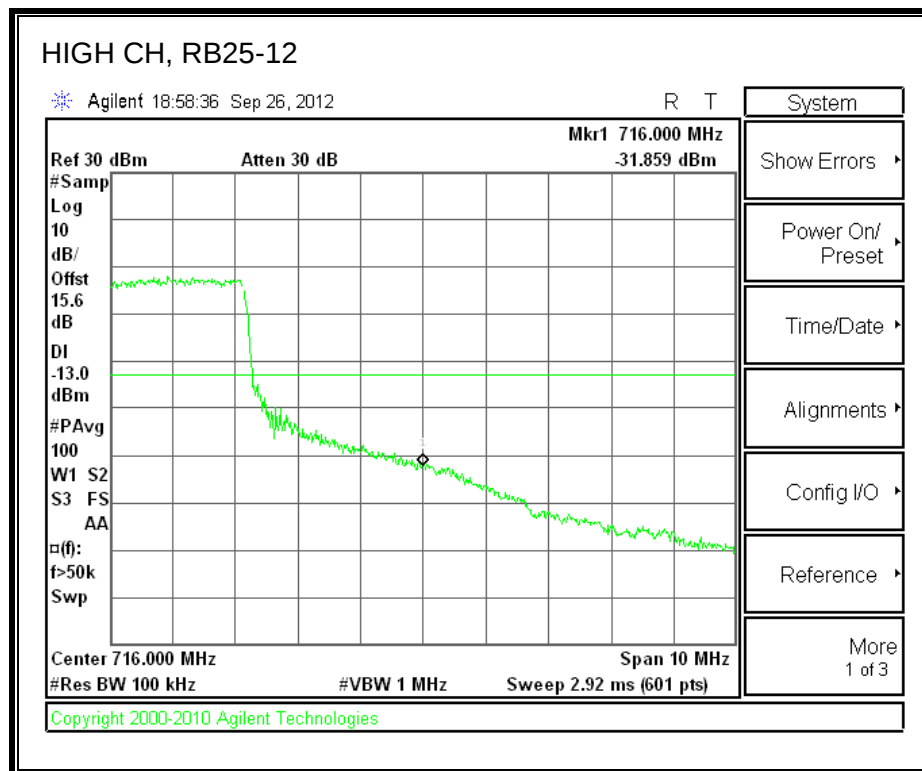
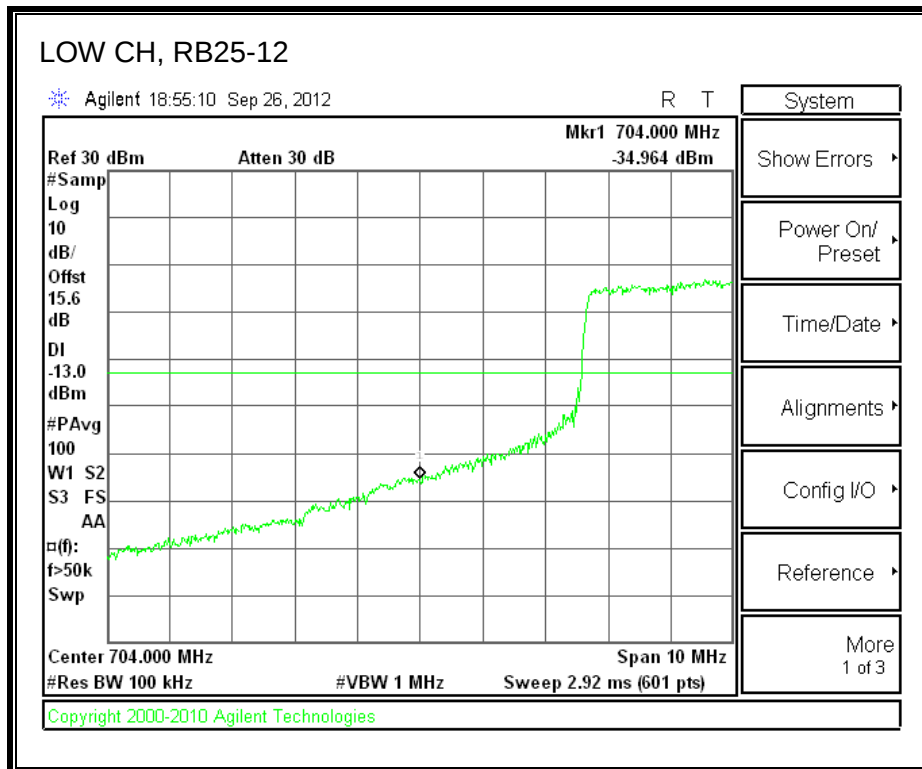


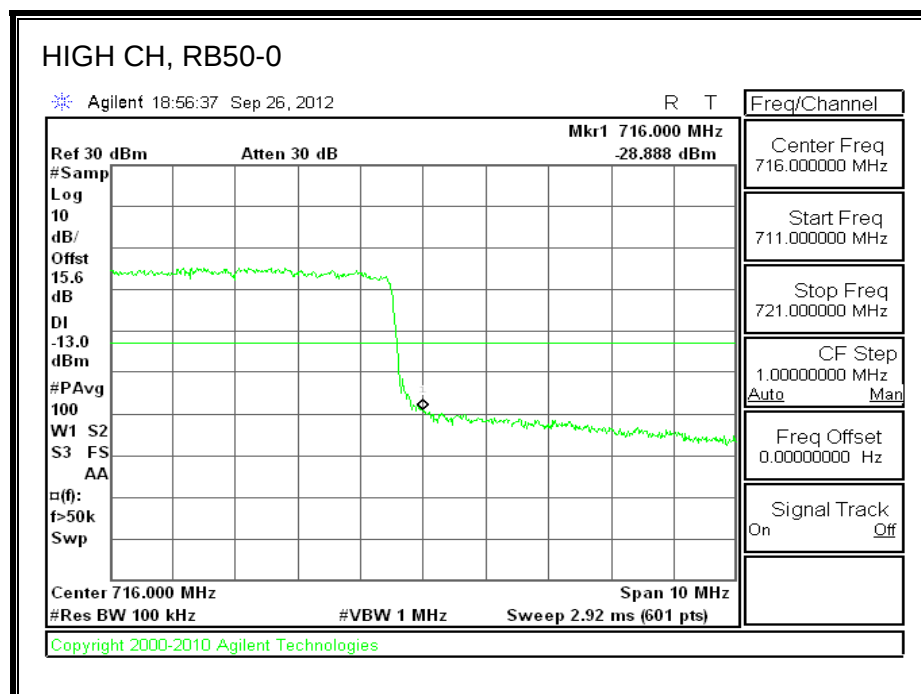
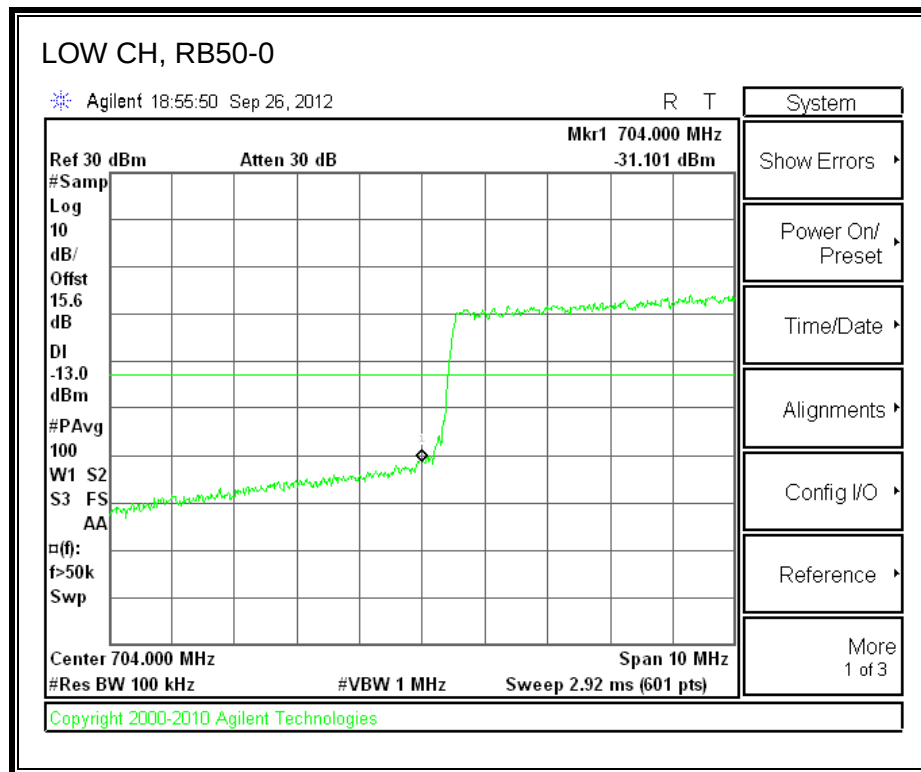




16QAM Band 17 (10 MHz BANDWIDTH)







8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §24.238 and §27.53

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.

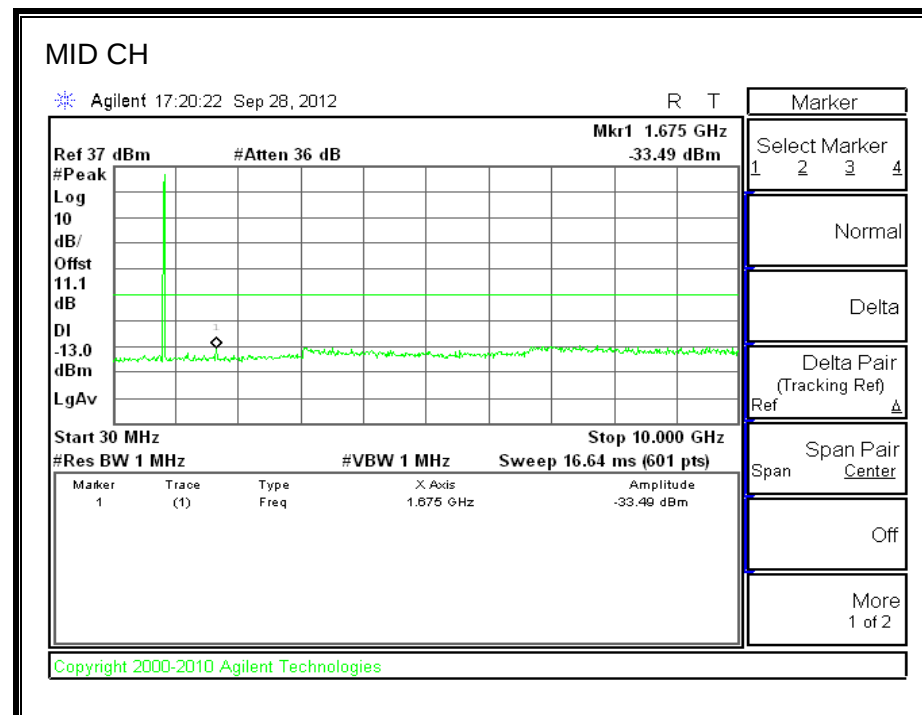
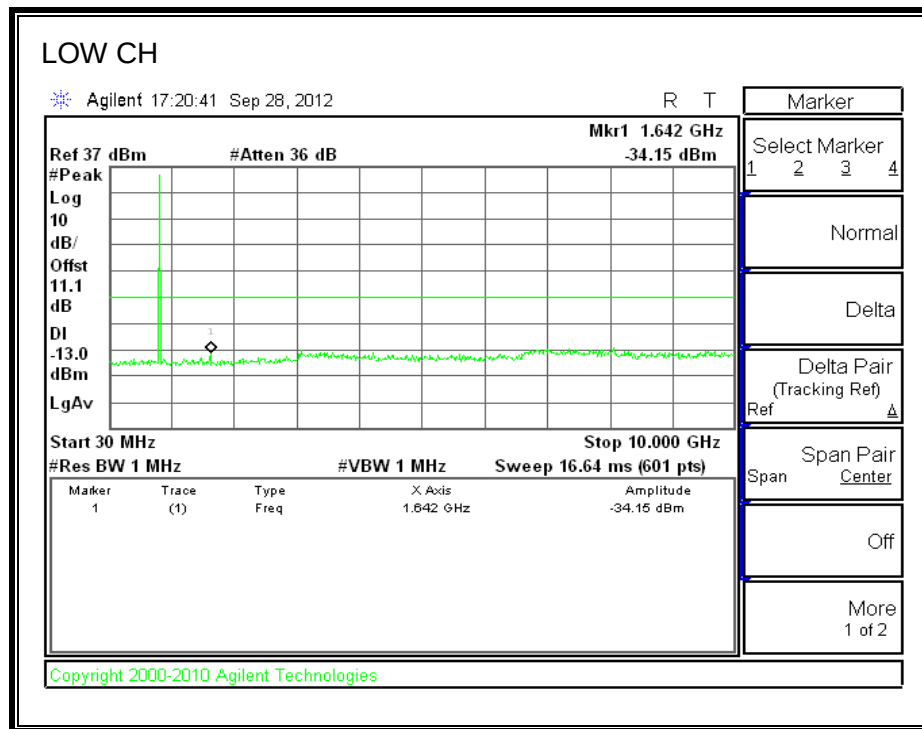
For each out of band emissions measurement:

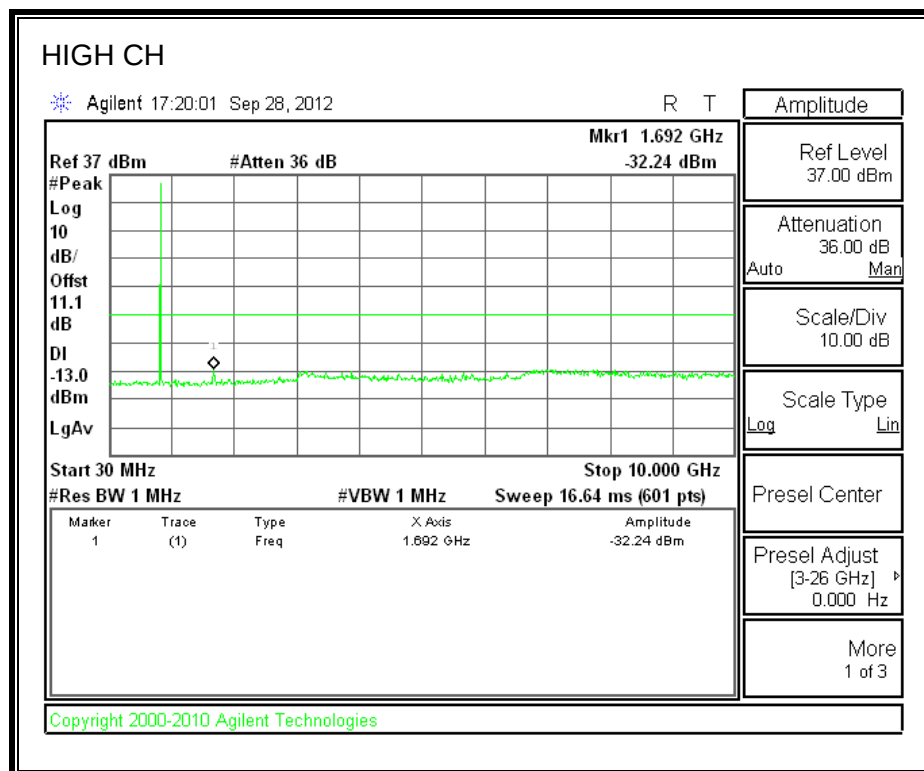
- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

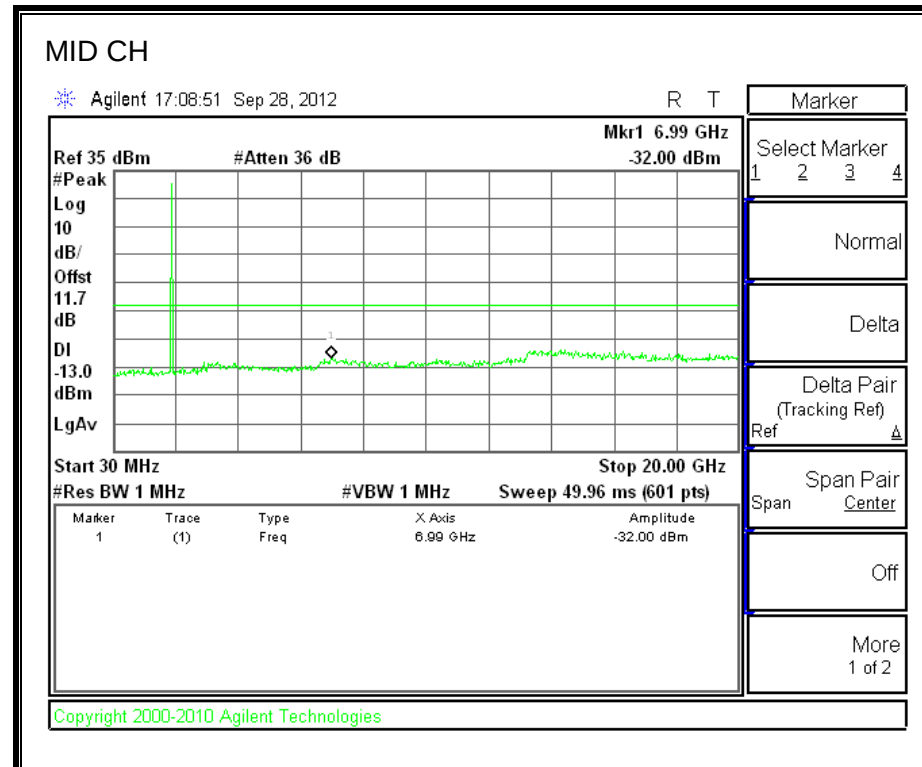
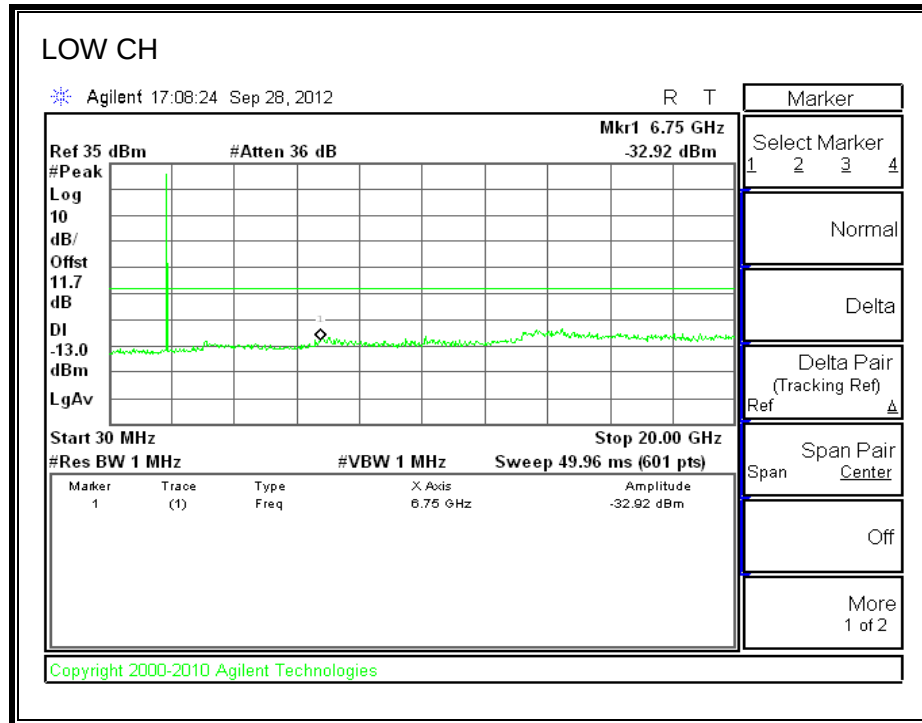
MODES TESTED

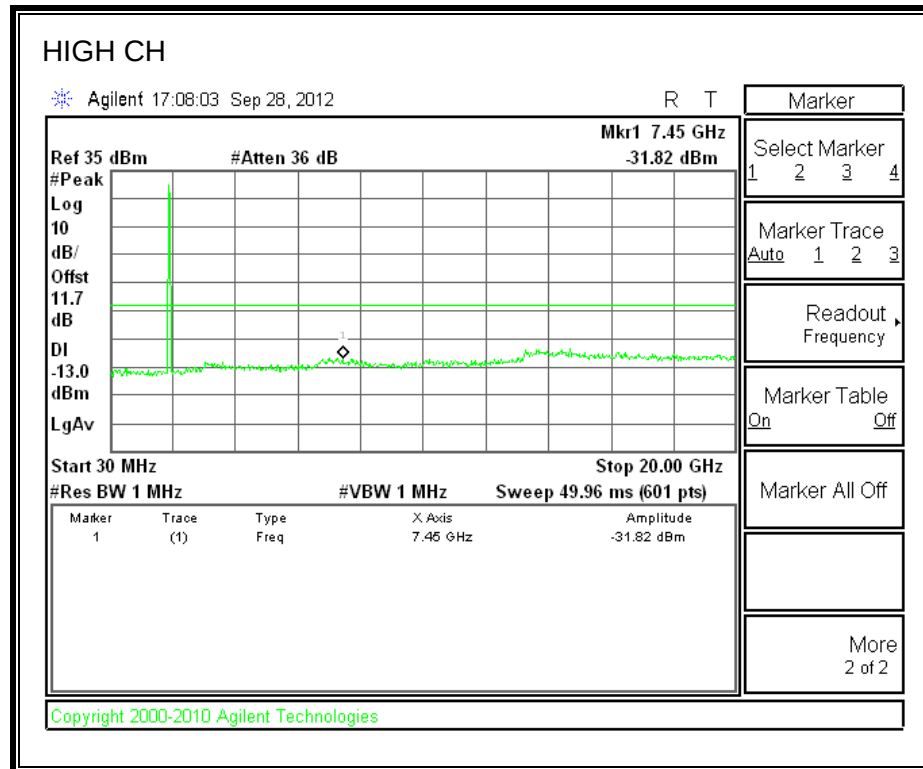
- GPRS and EGPRS
- UMTS, REL 99 and HSDPA
- LTE BAND 2
- LTE BAND 4
- LTE BAND 5
- LTE BAND 17

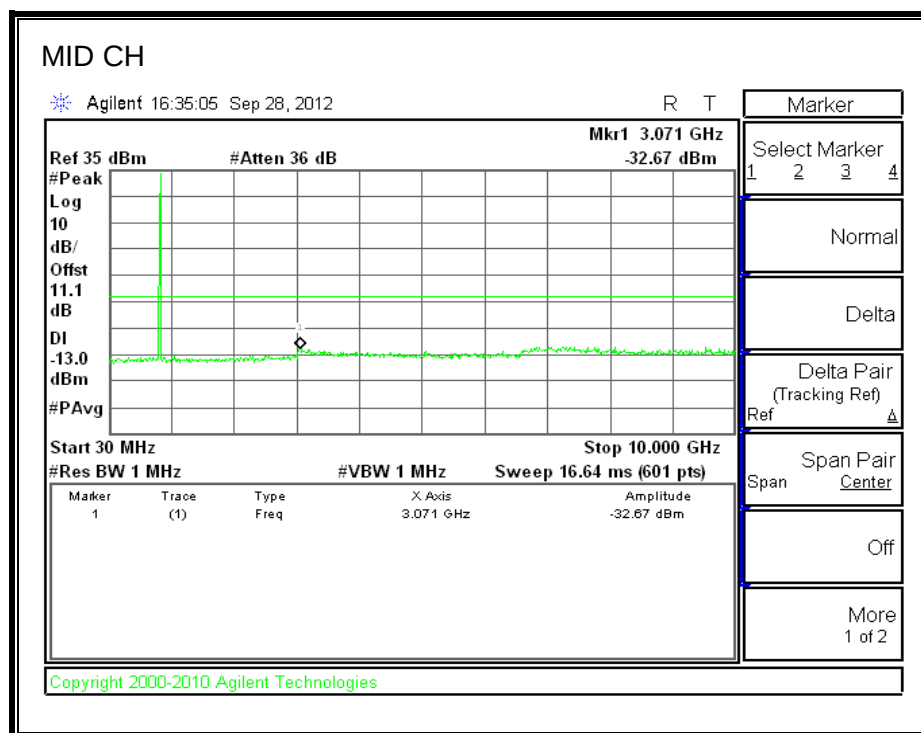
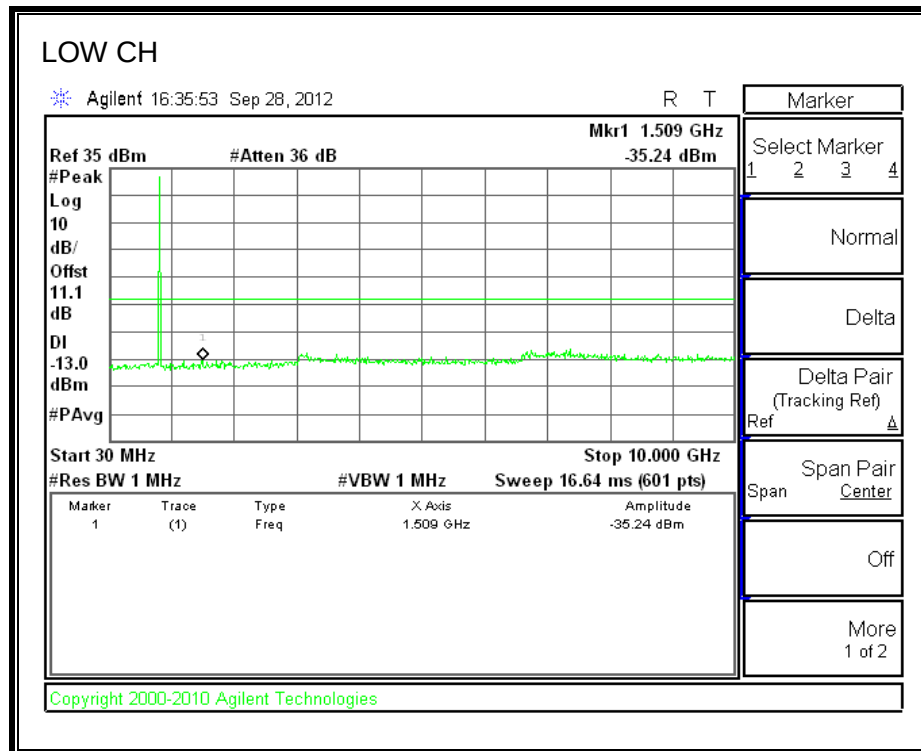
RESULTS

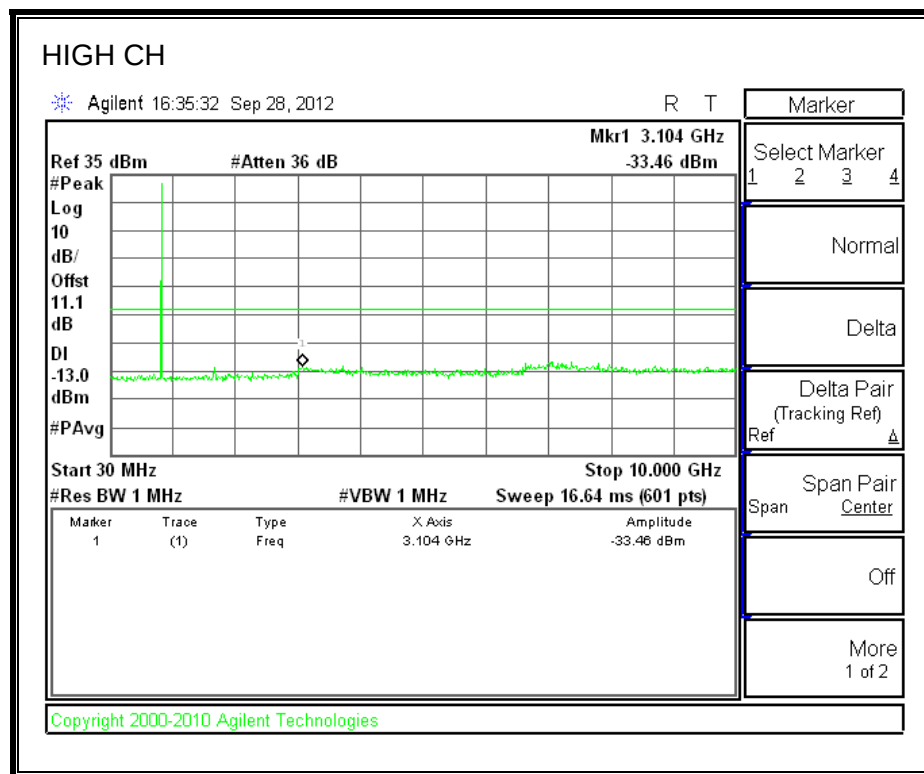
8.3.1. GSM**GPRS Mode (Cellular Band)**

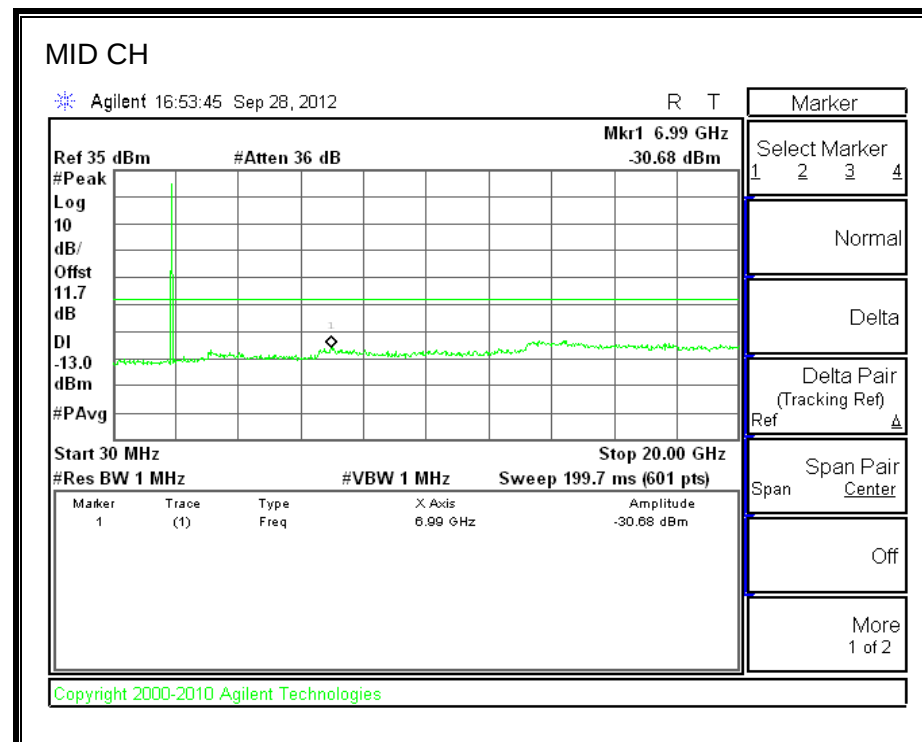
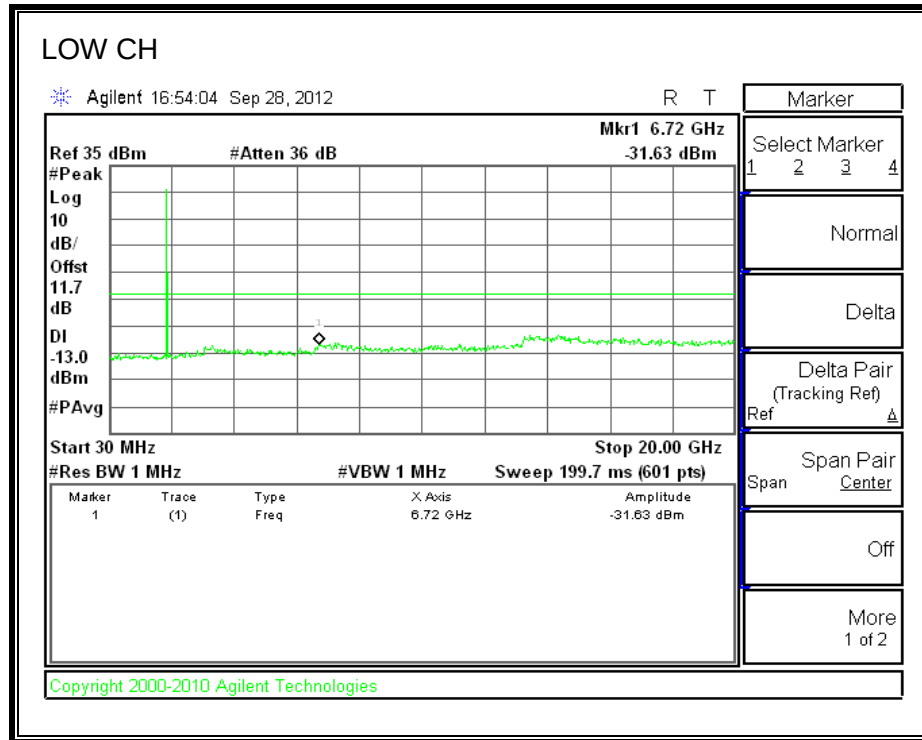


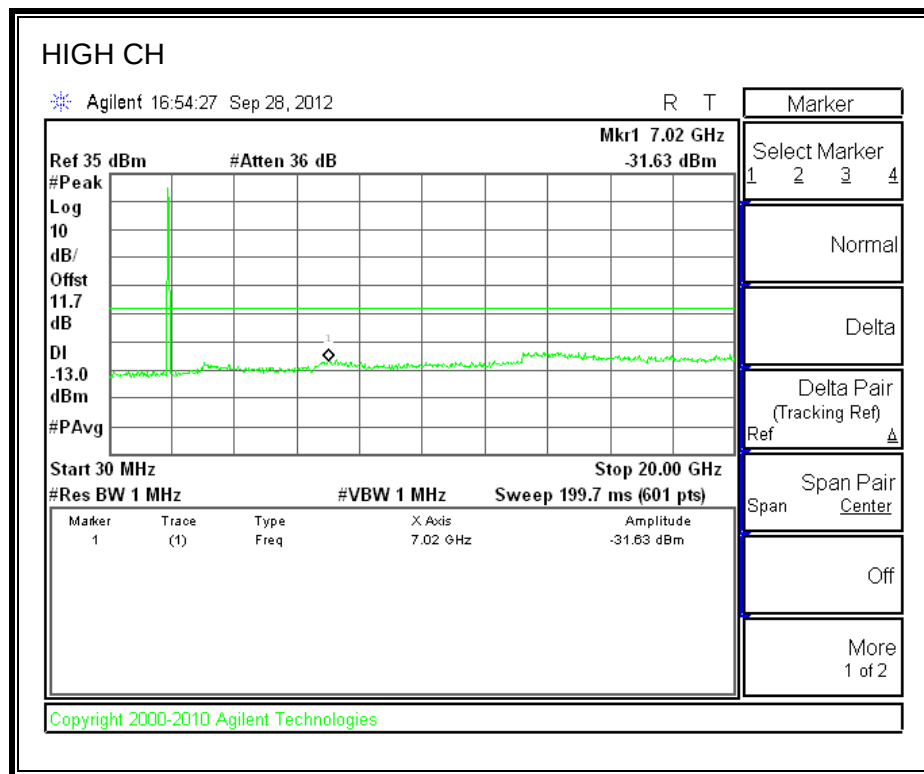
GPRS PCS BAND

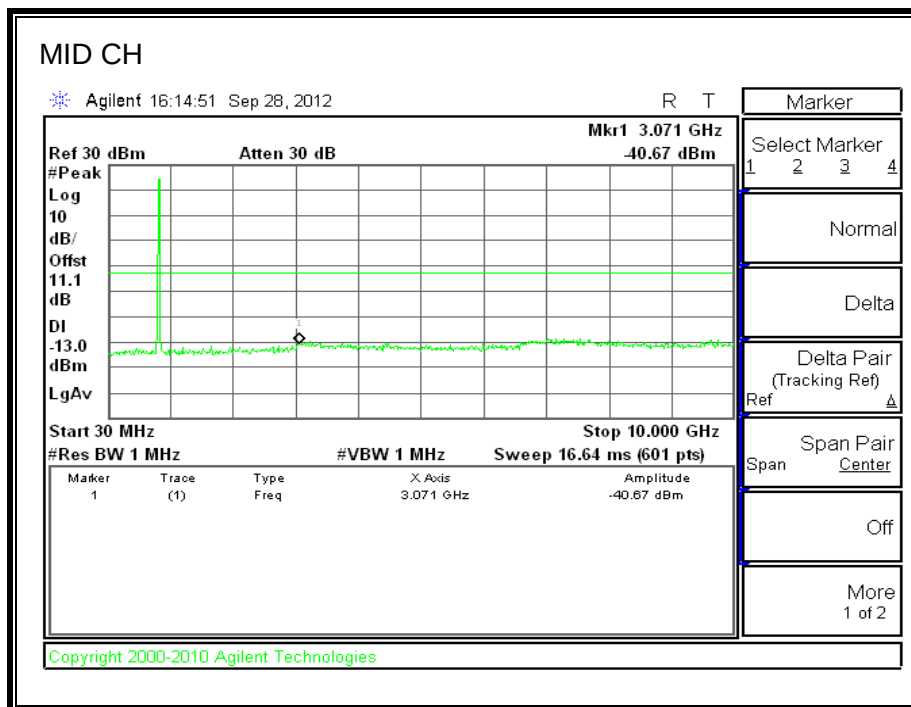
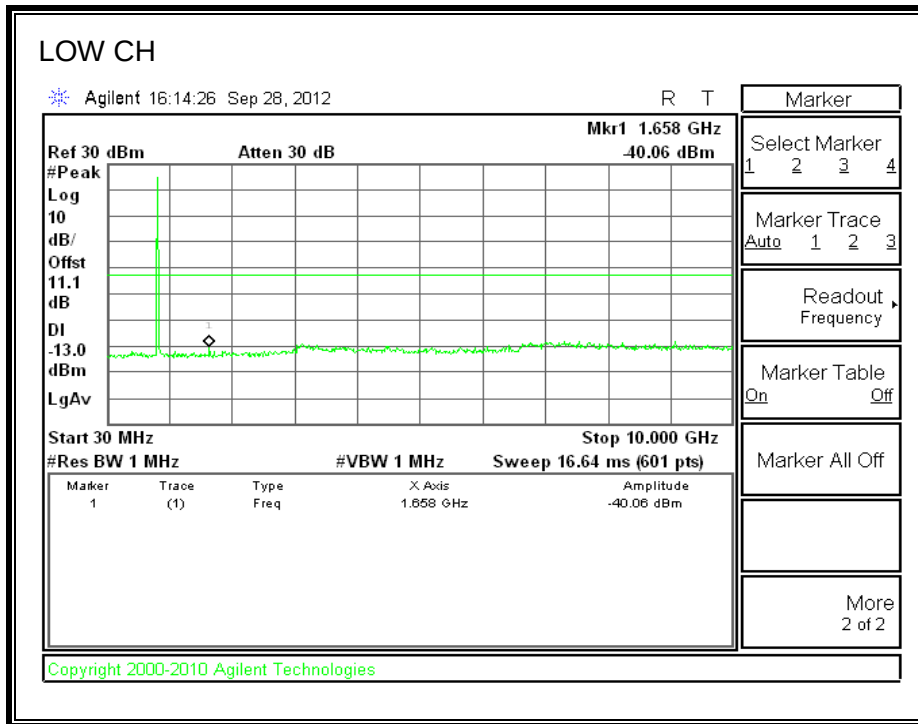


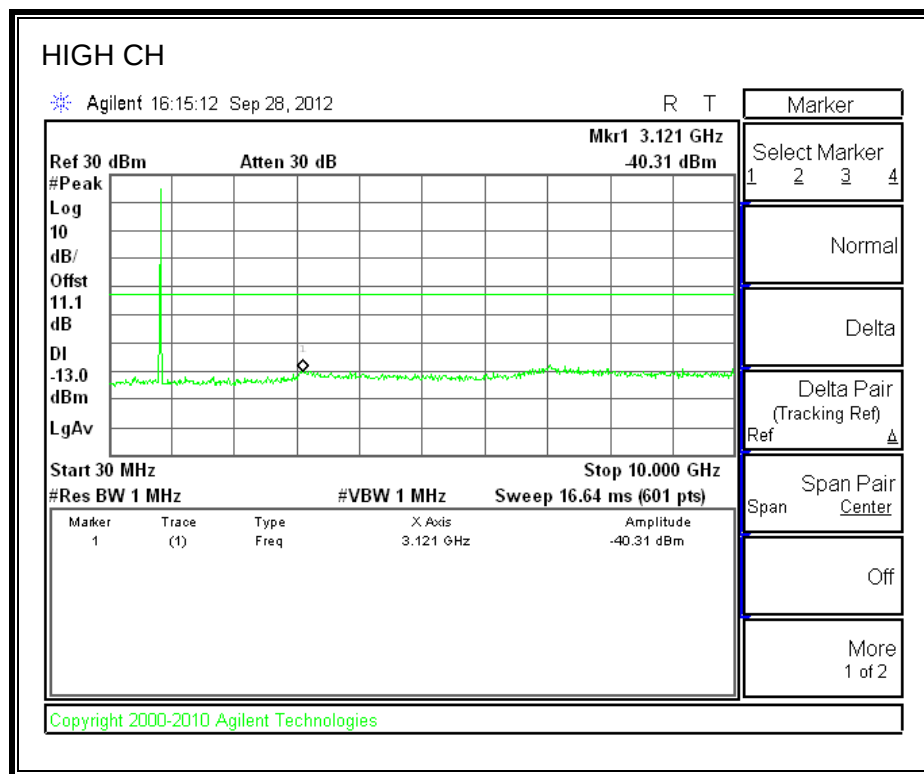
EGPRS Mode (Cellular Band)

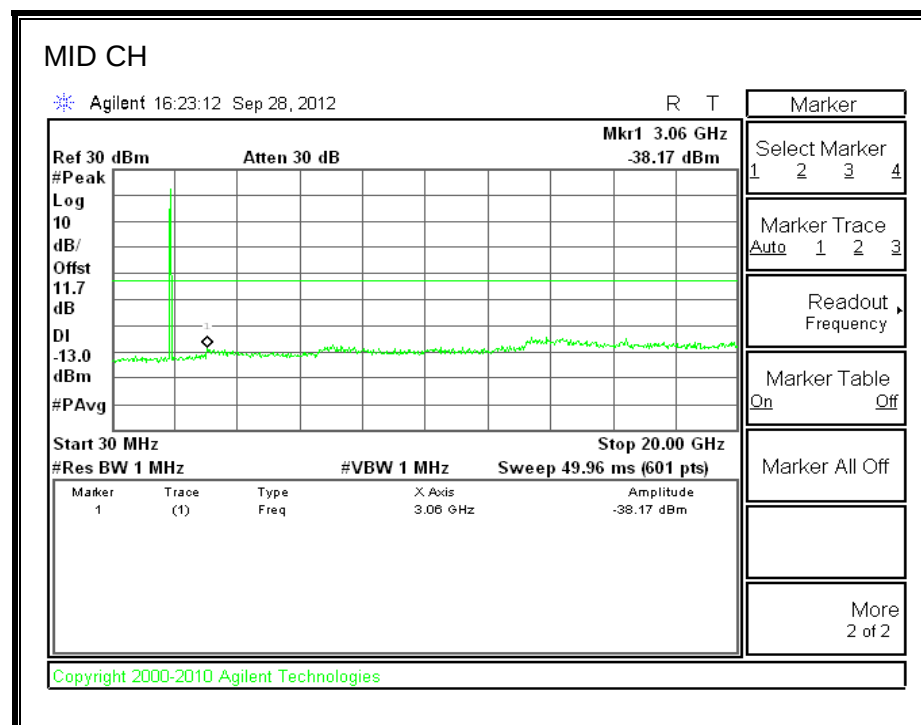
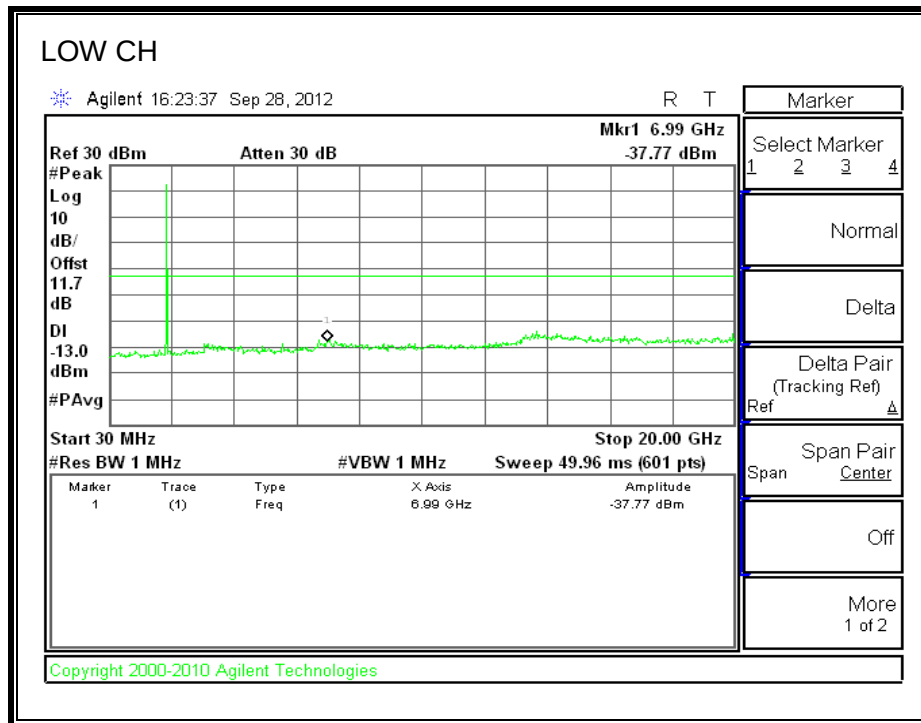


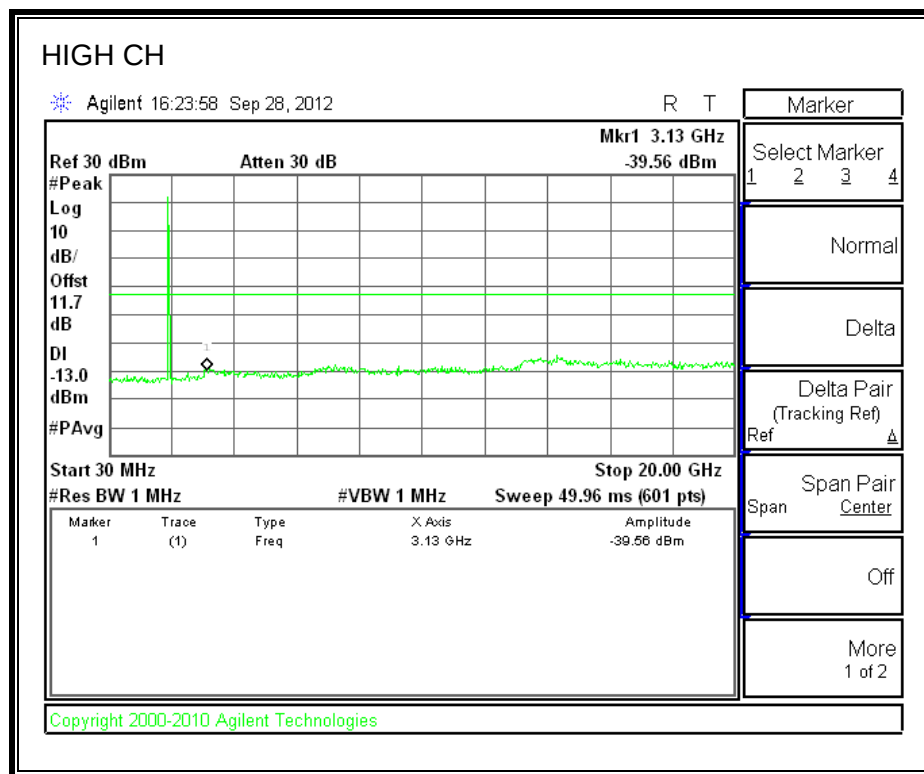
EGPRS PCS Band

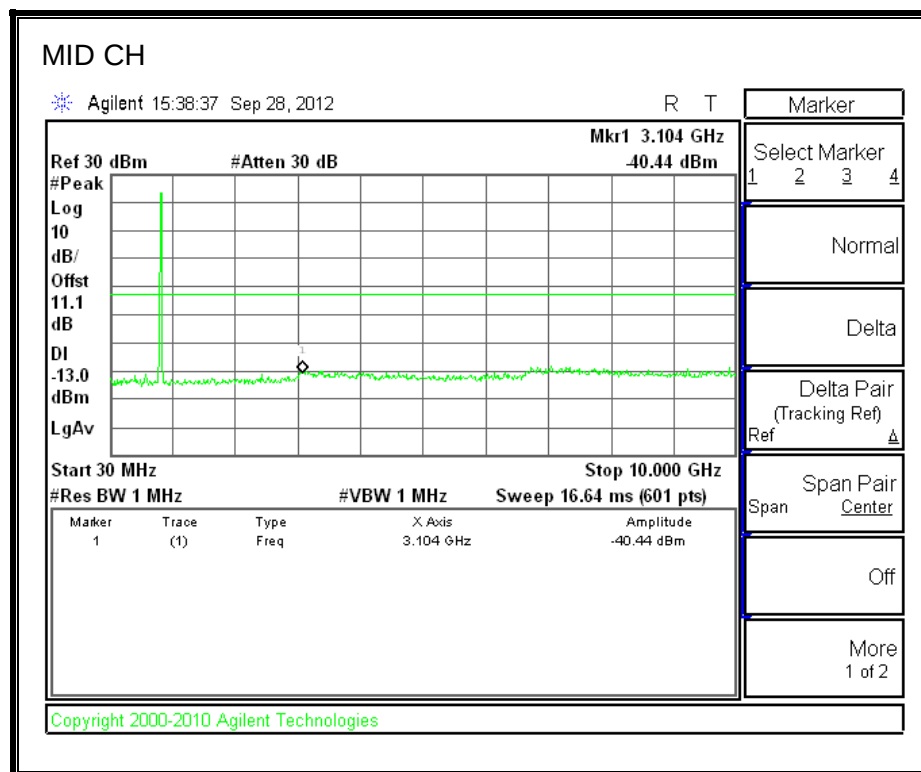
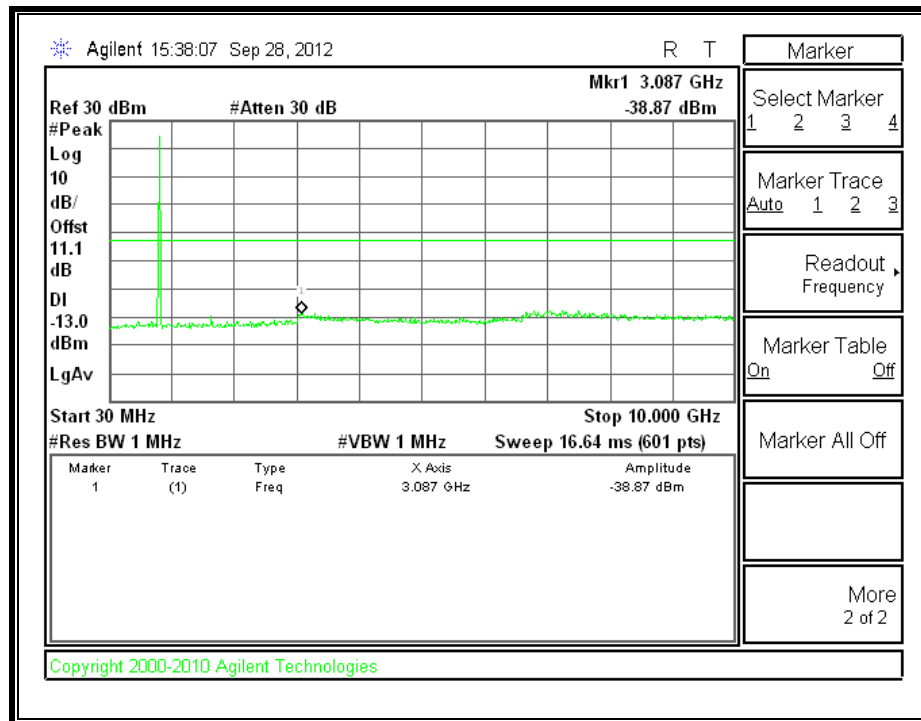


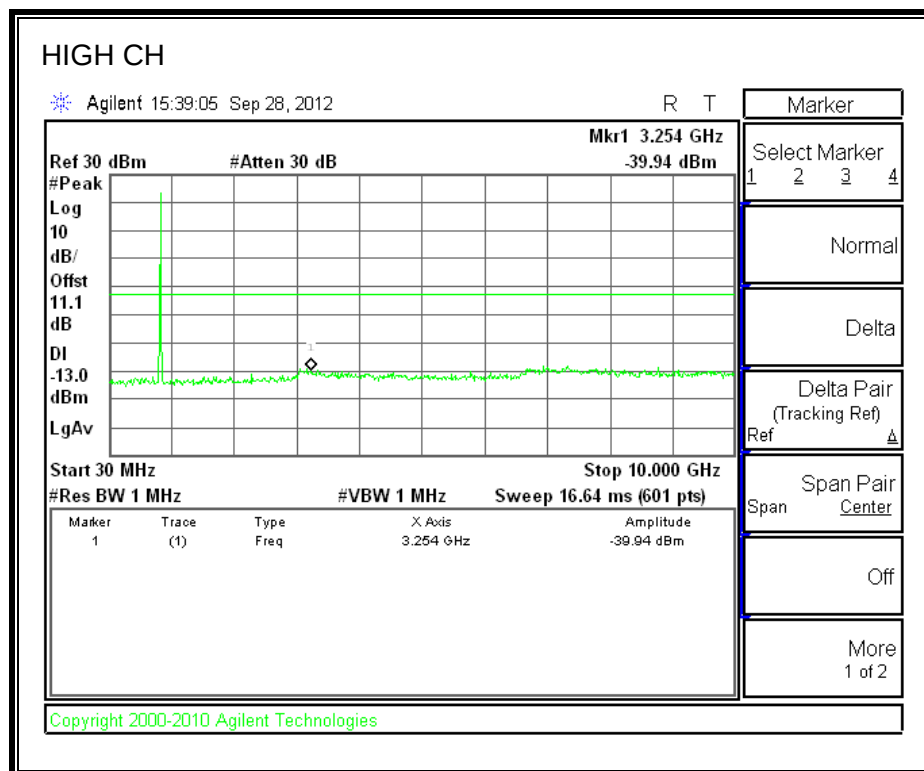
8.3.2. WCDMA**CELL BAND, REL 99**

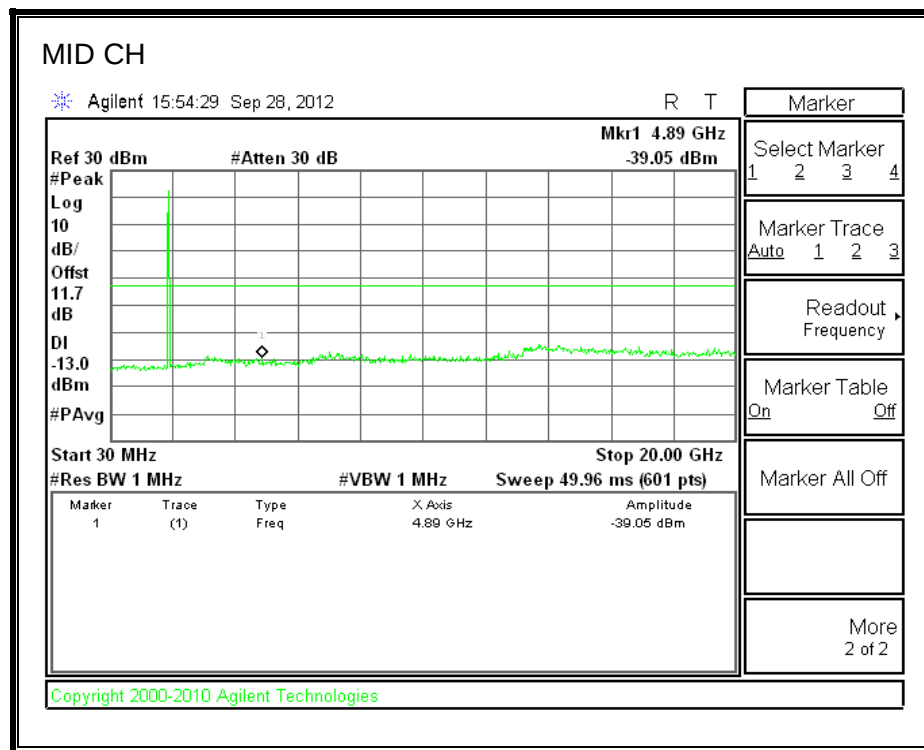
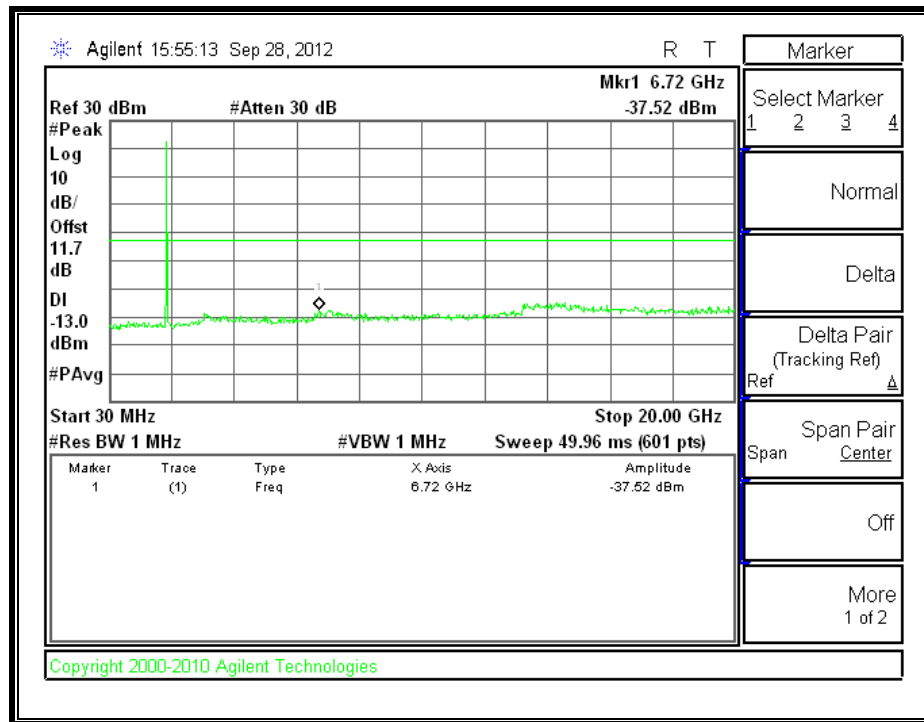


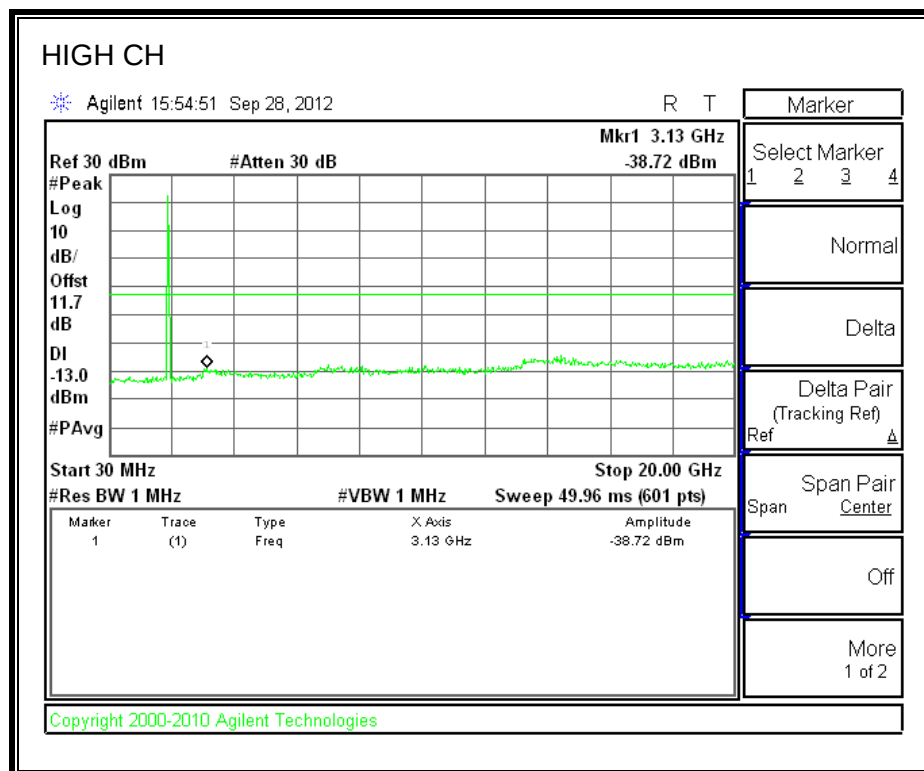
PCS BAND, REL 99

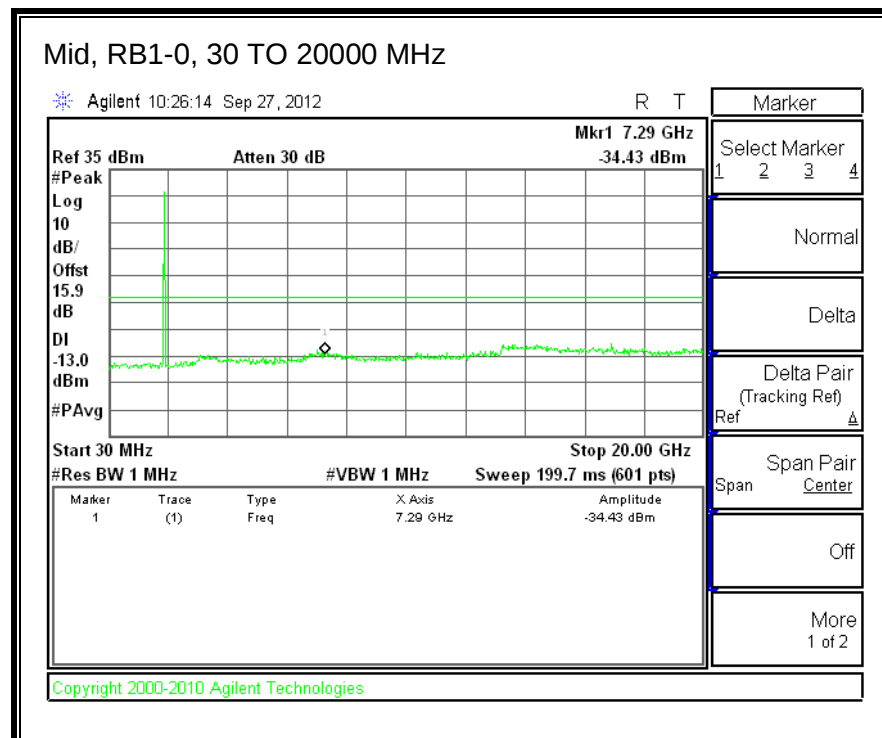
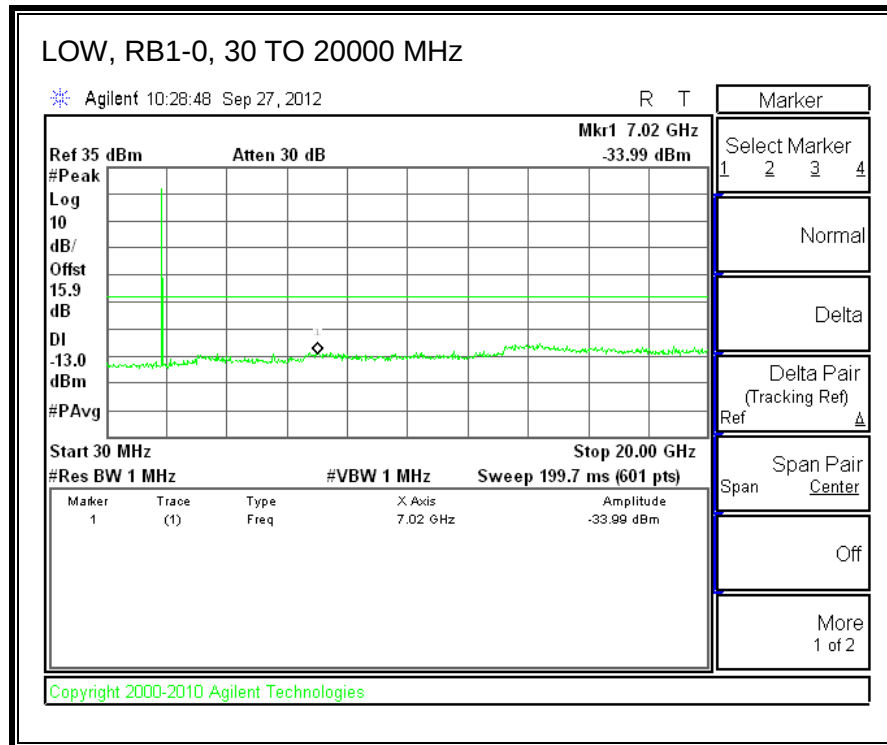


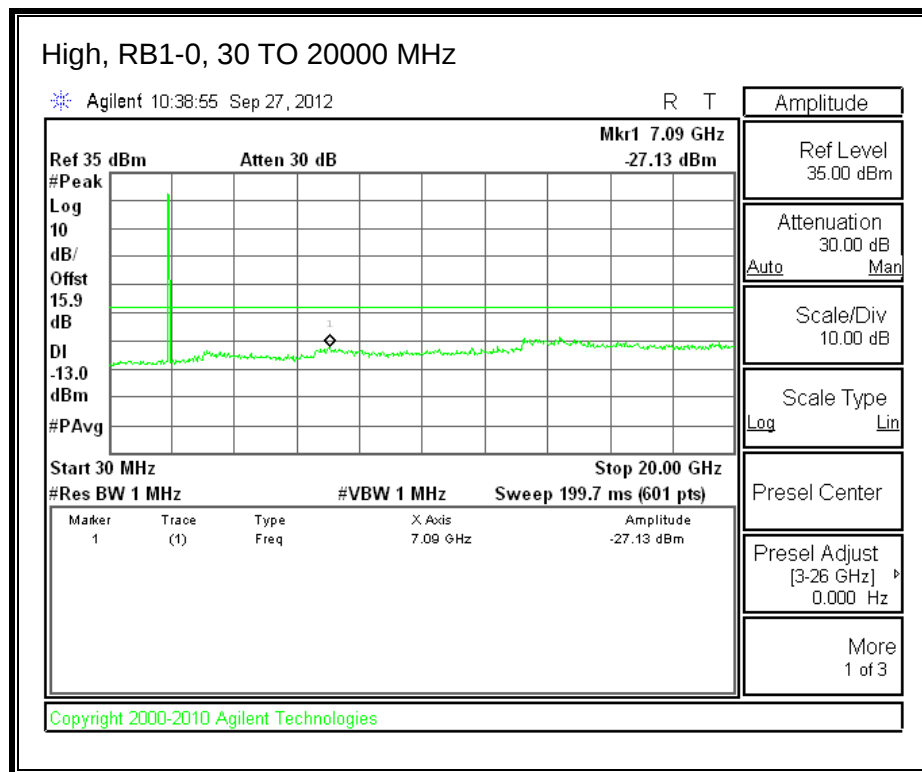
CELL BAND, HSUPA,

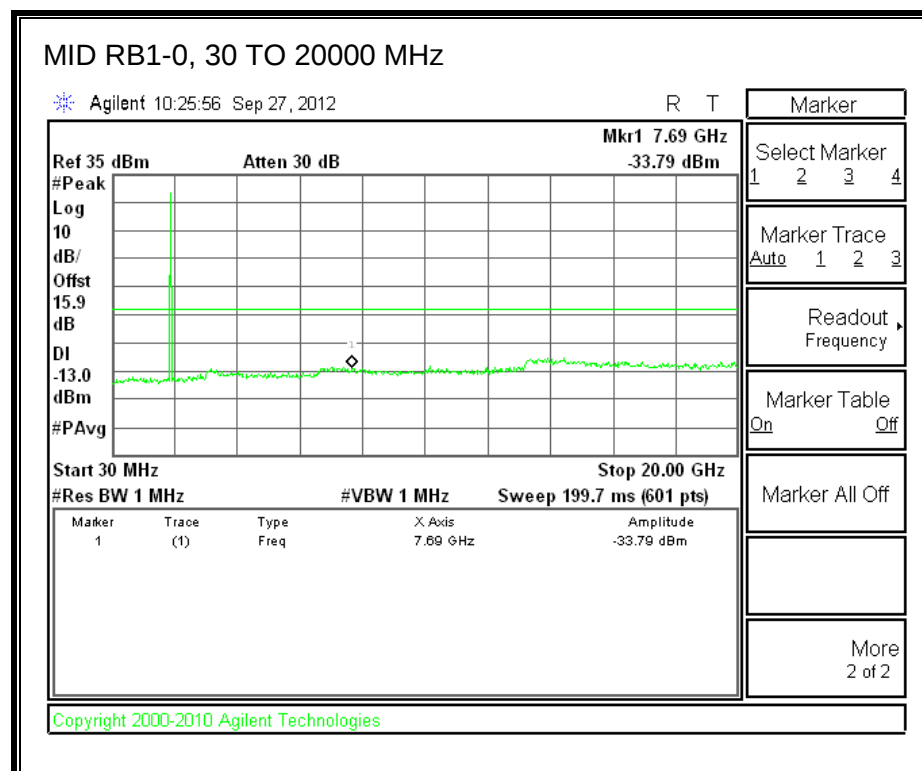
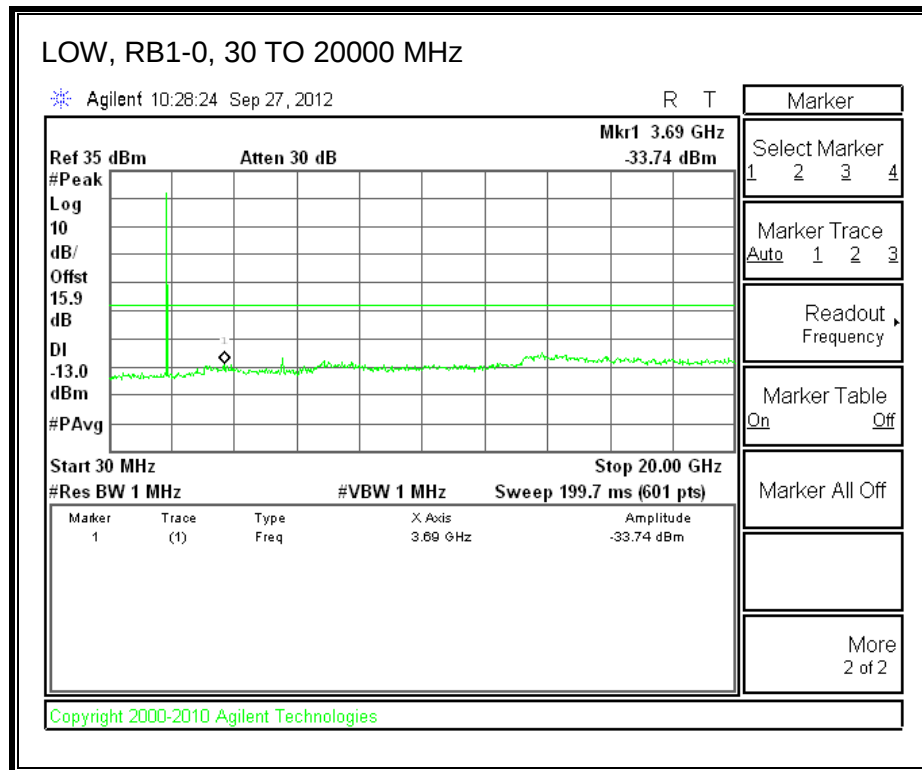


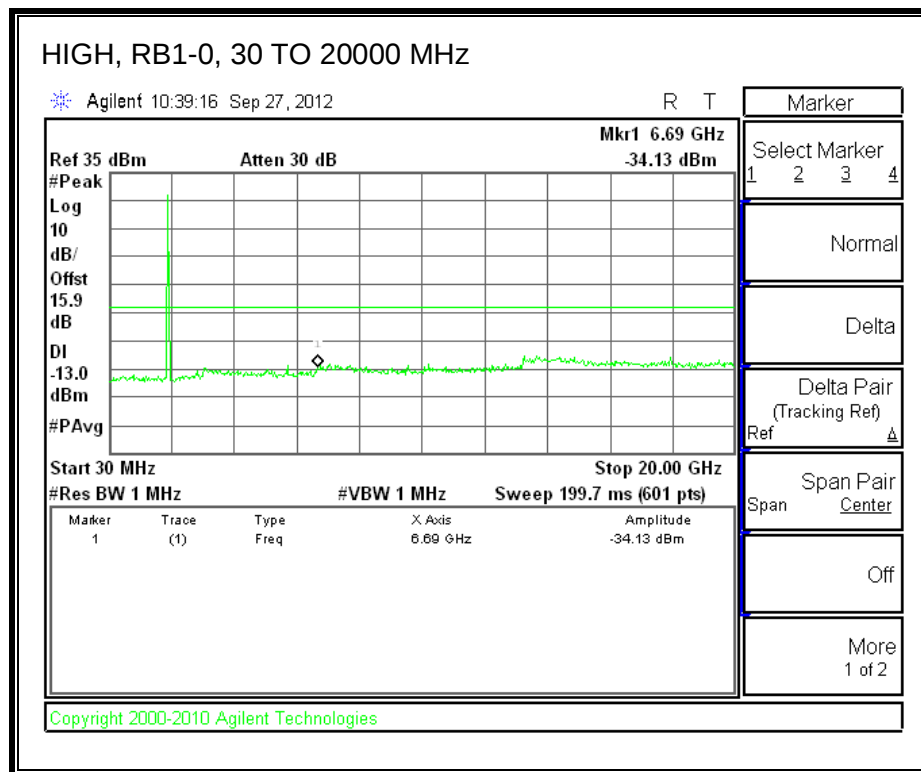
PCS BAND, HSUPA

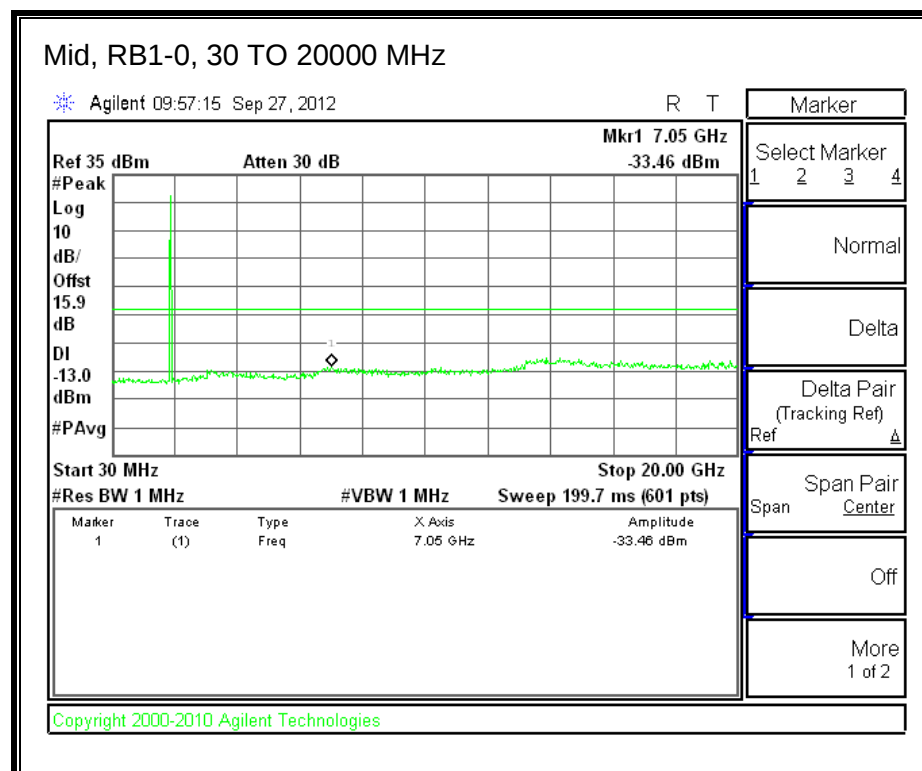
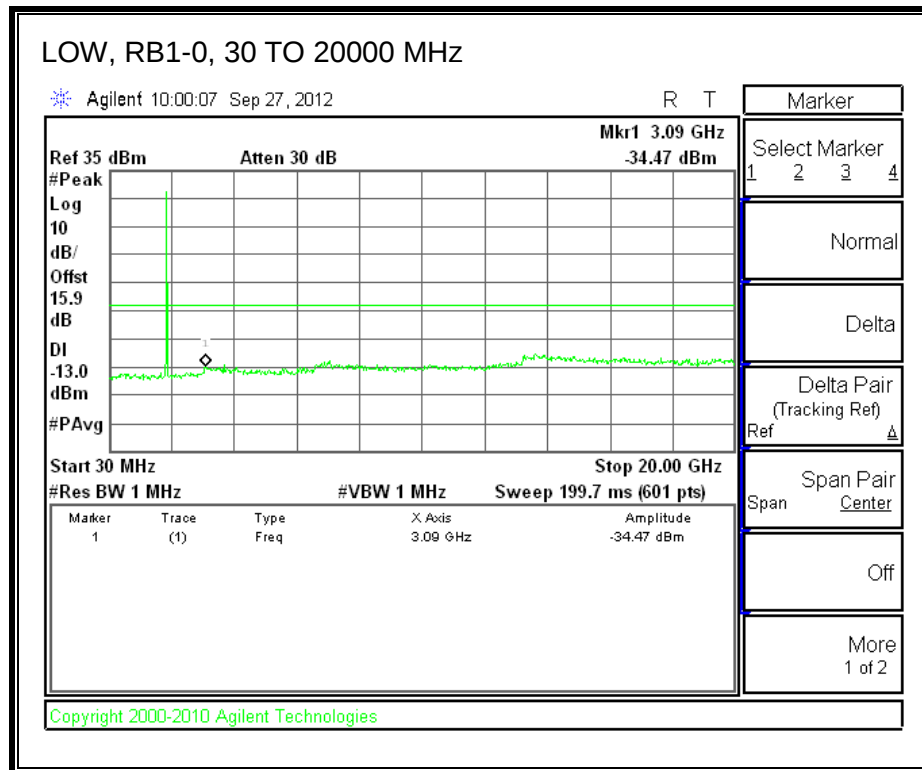


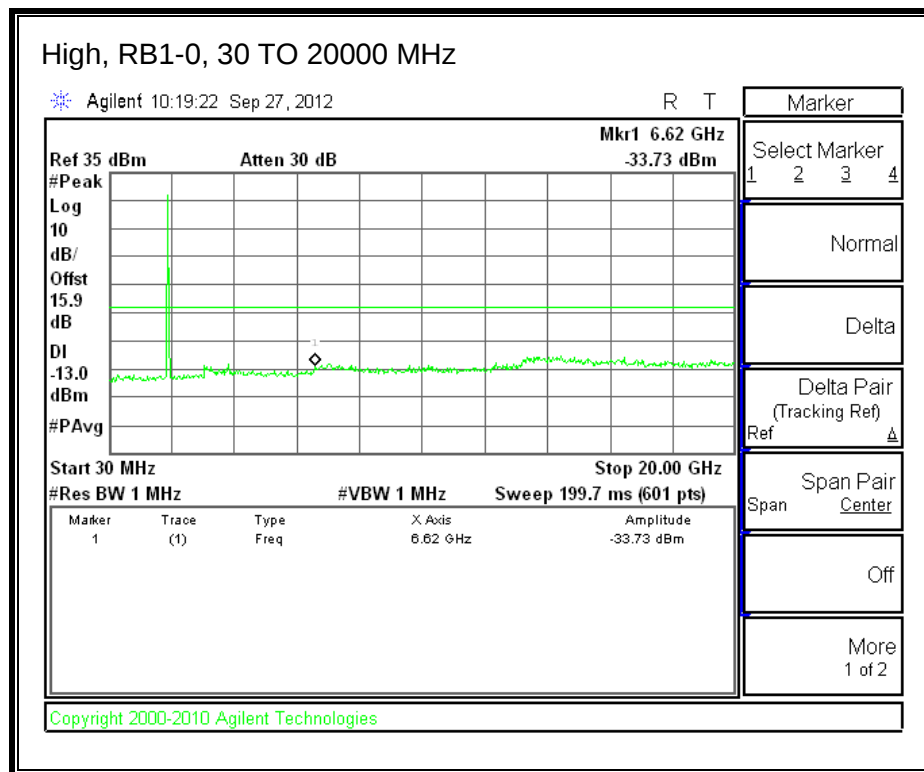
8.3.3. LTE BAND 2**QPSK, 1.4 MHz BANDWIDTH**

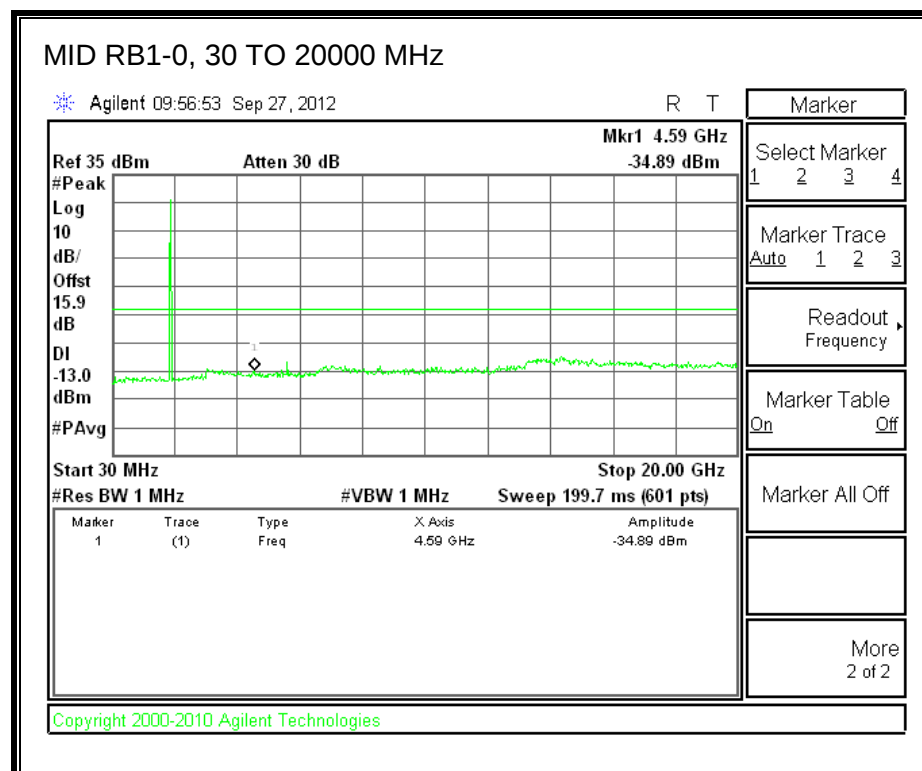
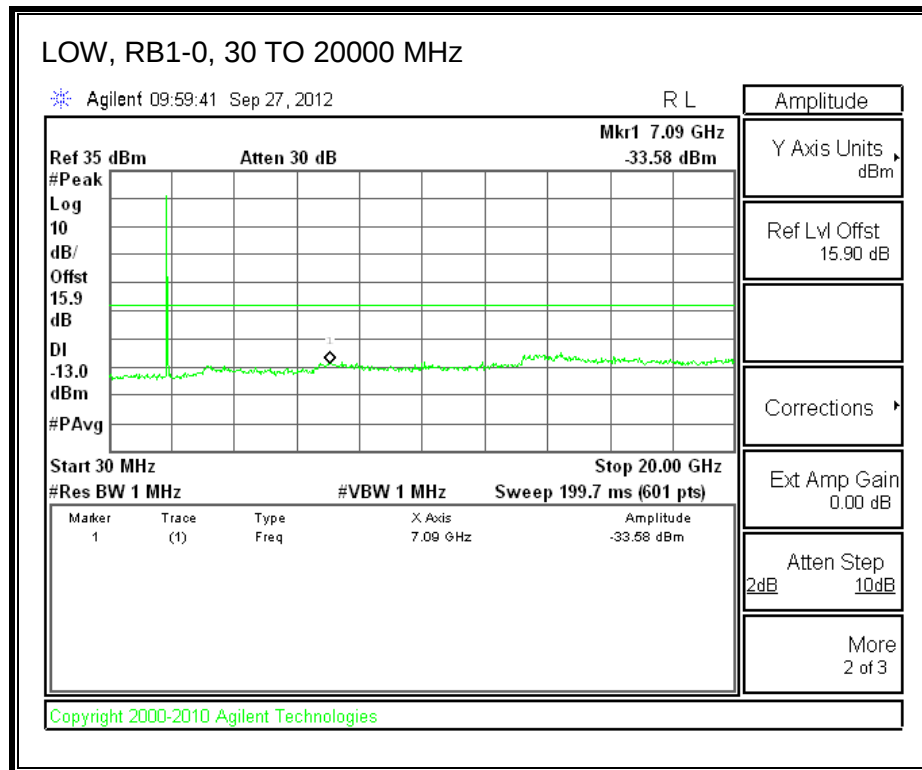


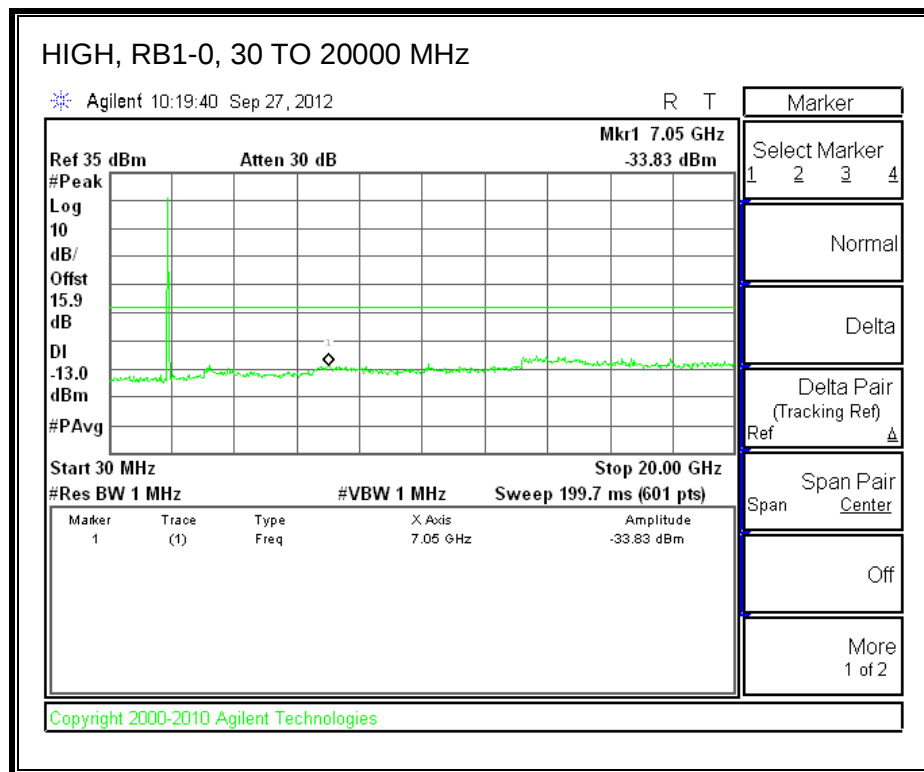
16QAM

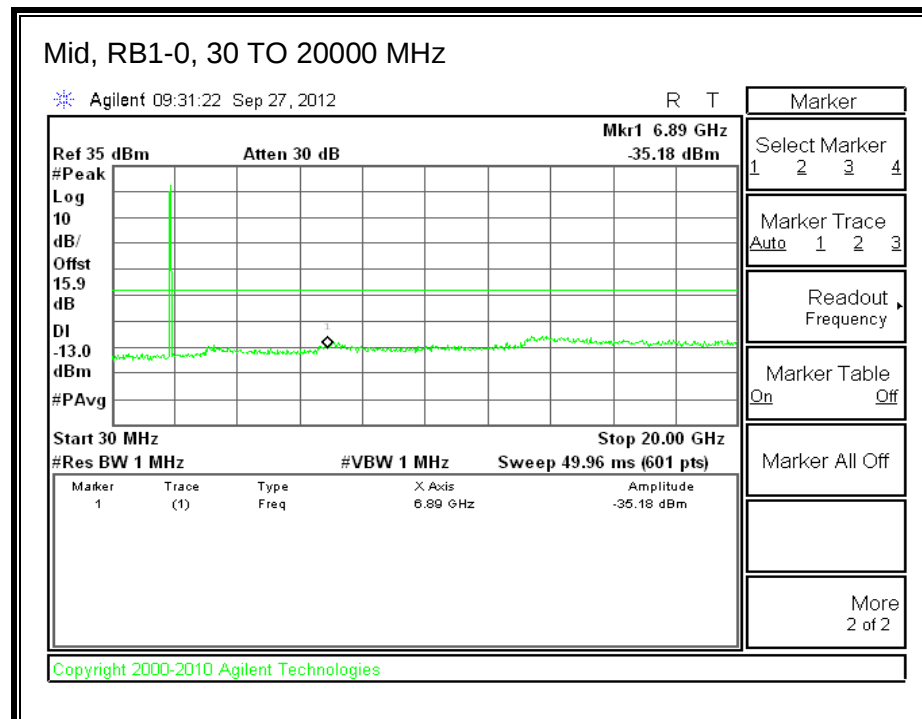
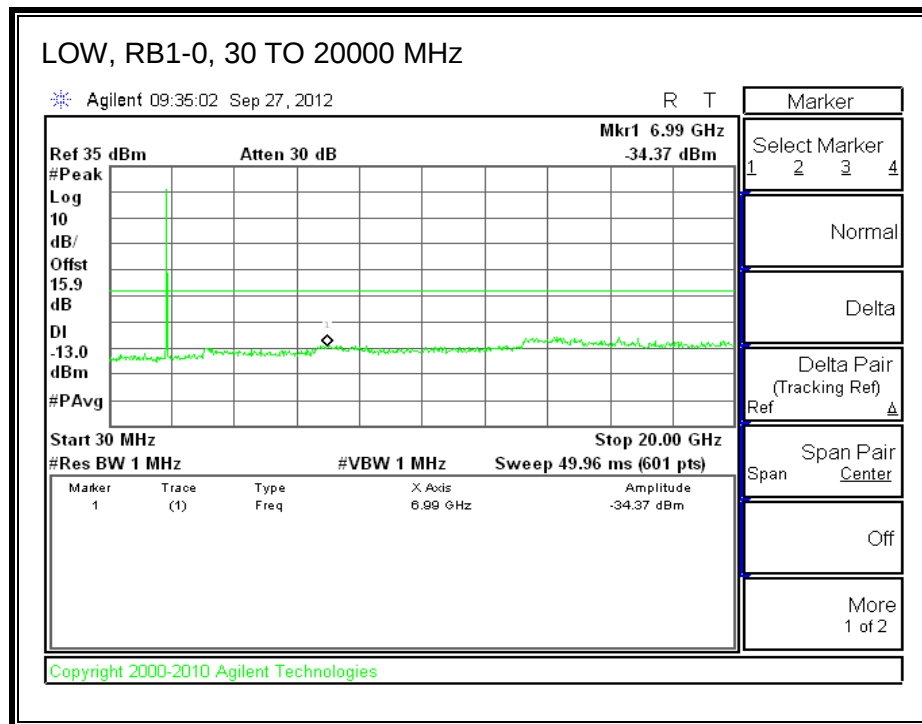


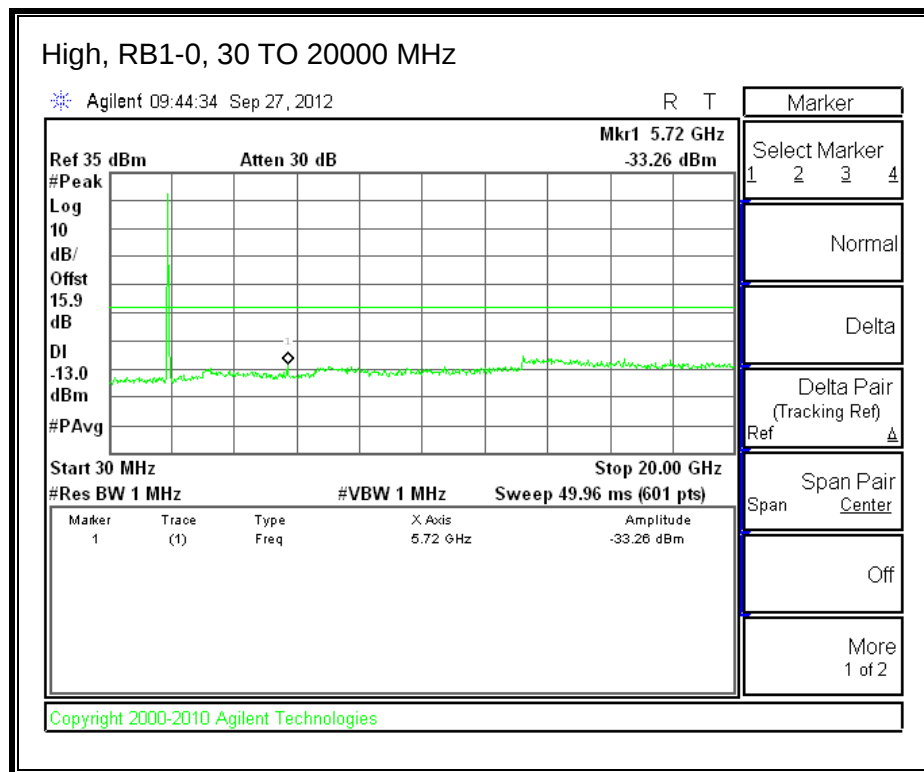
QPSK, 3 MHz BANDWIDTH

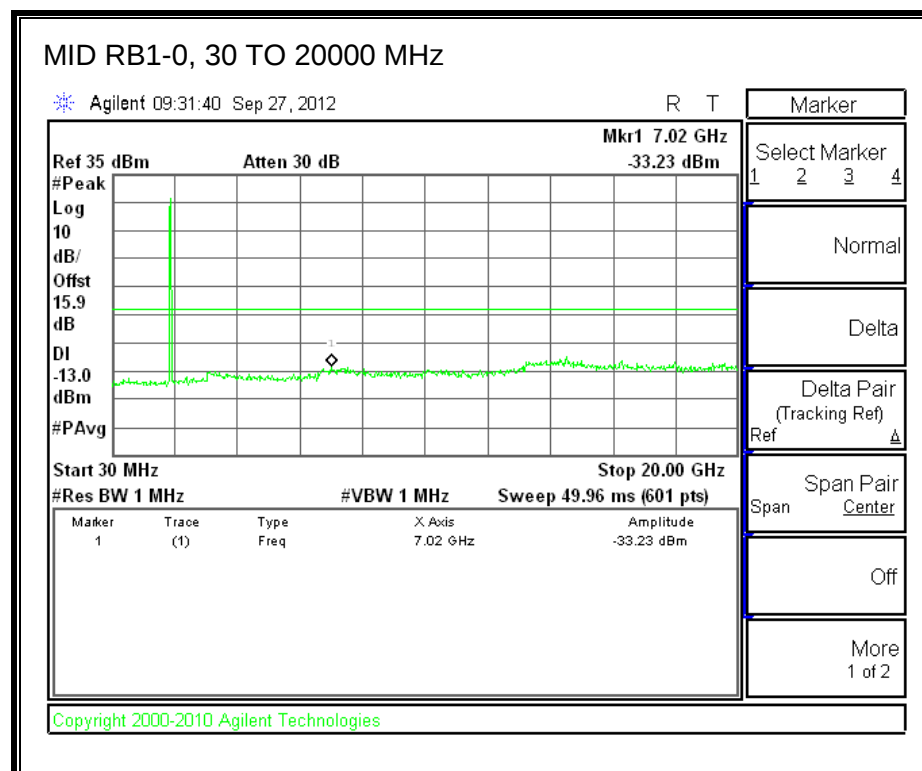
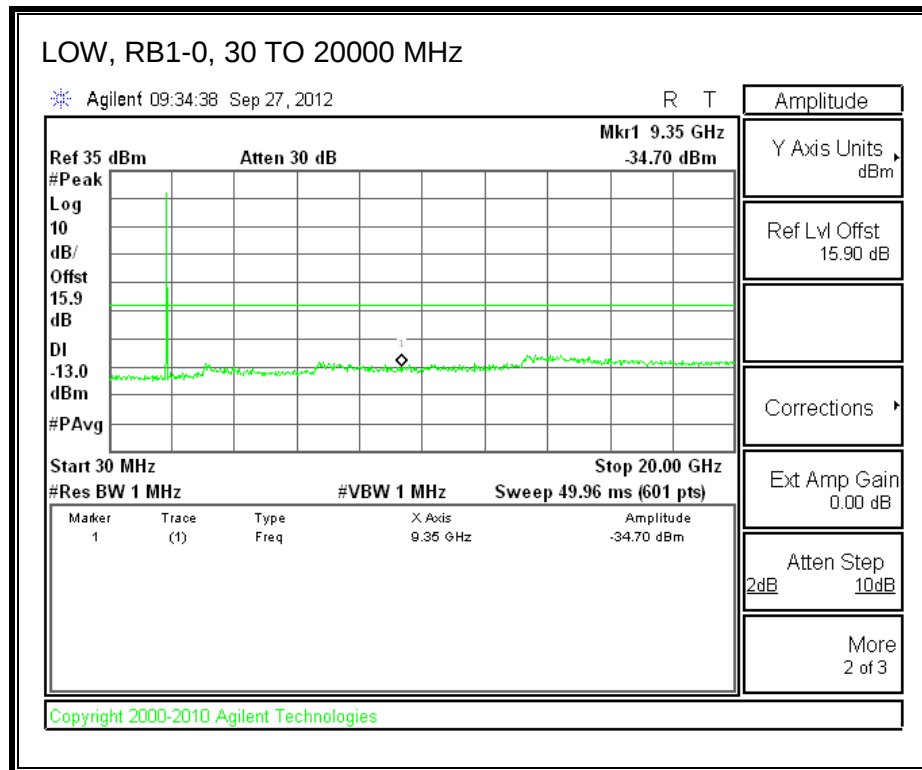


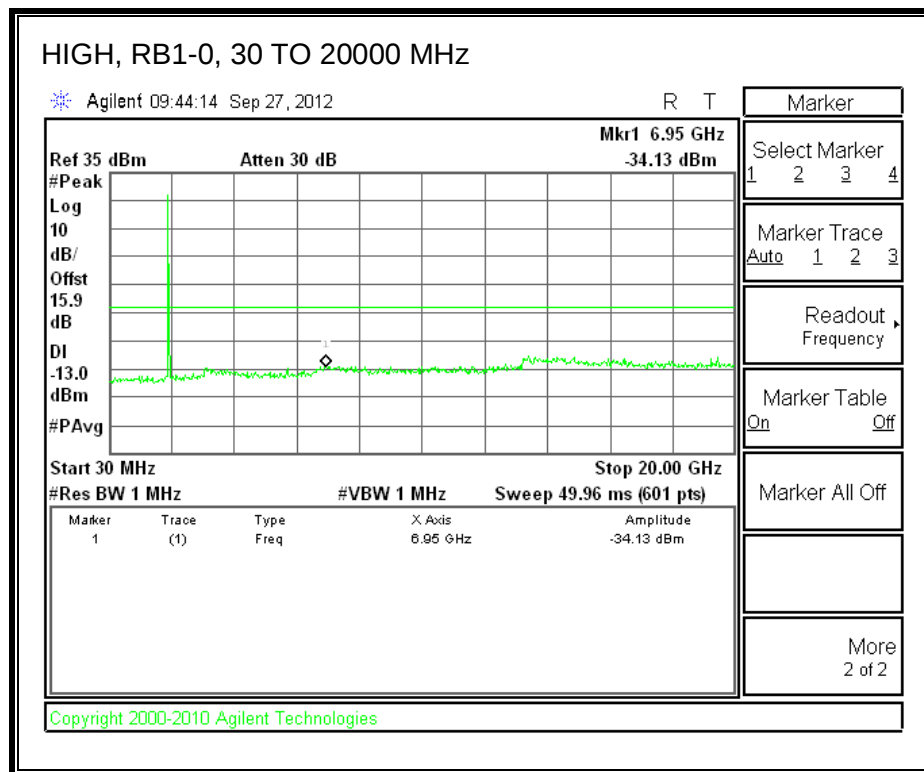
16QAM

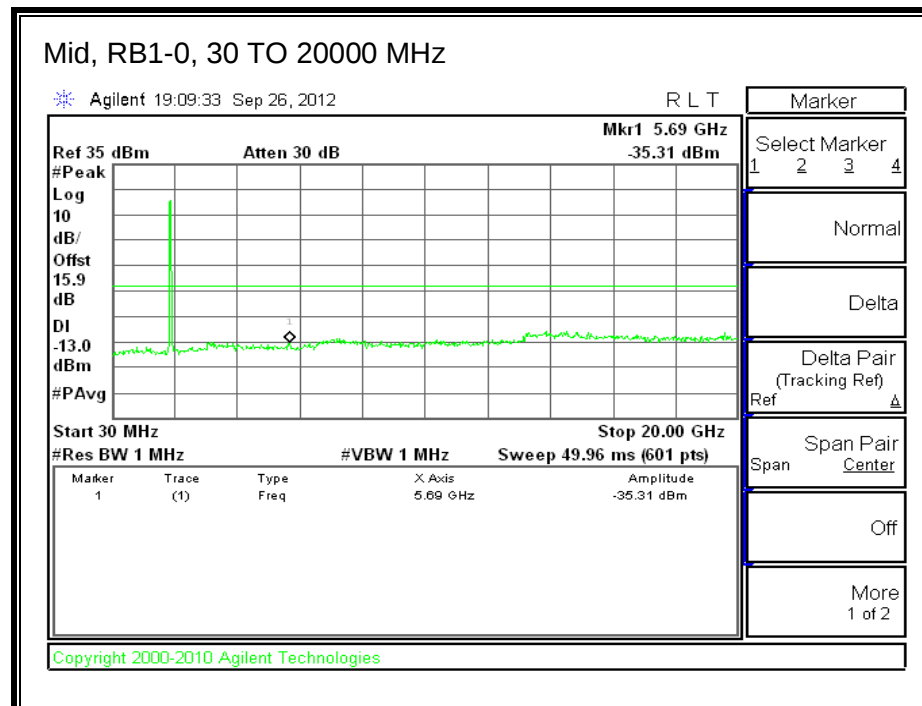
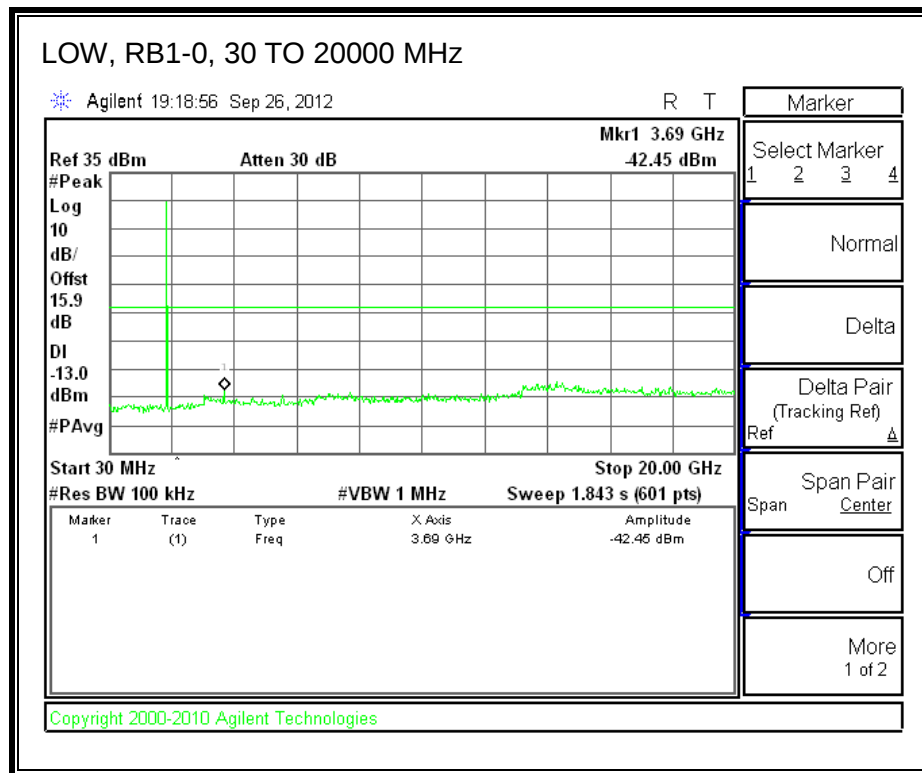


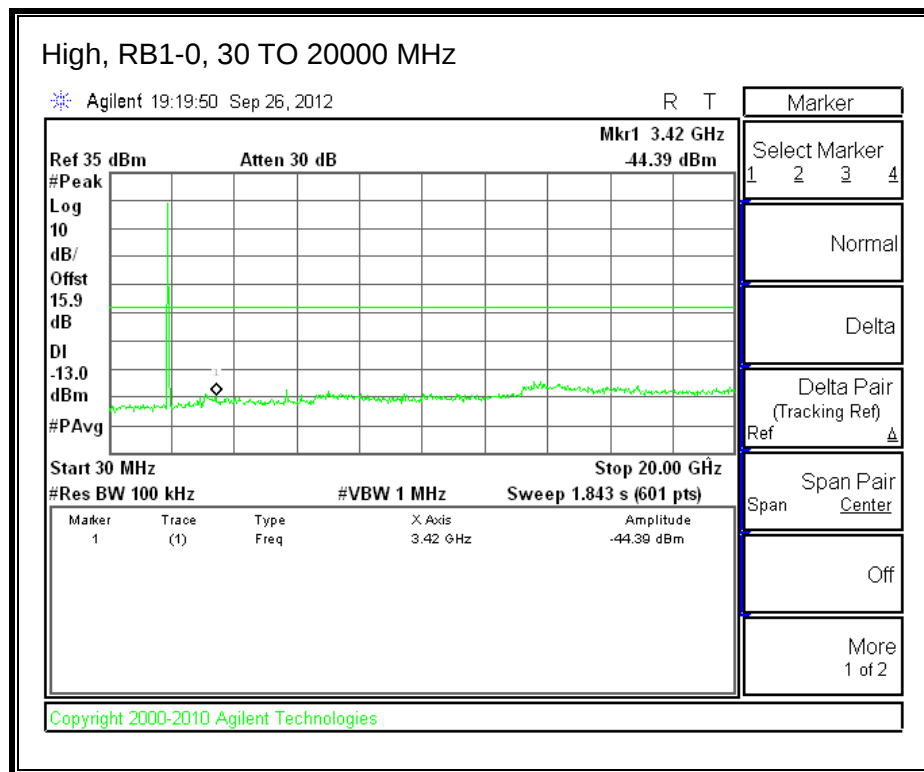
Band 2 (5 MHz BANDWIDTH)**QPSK**

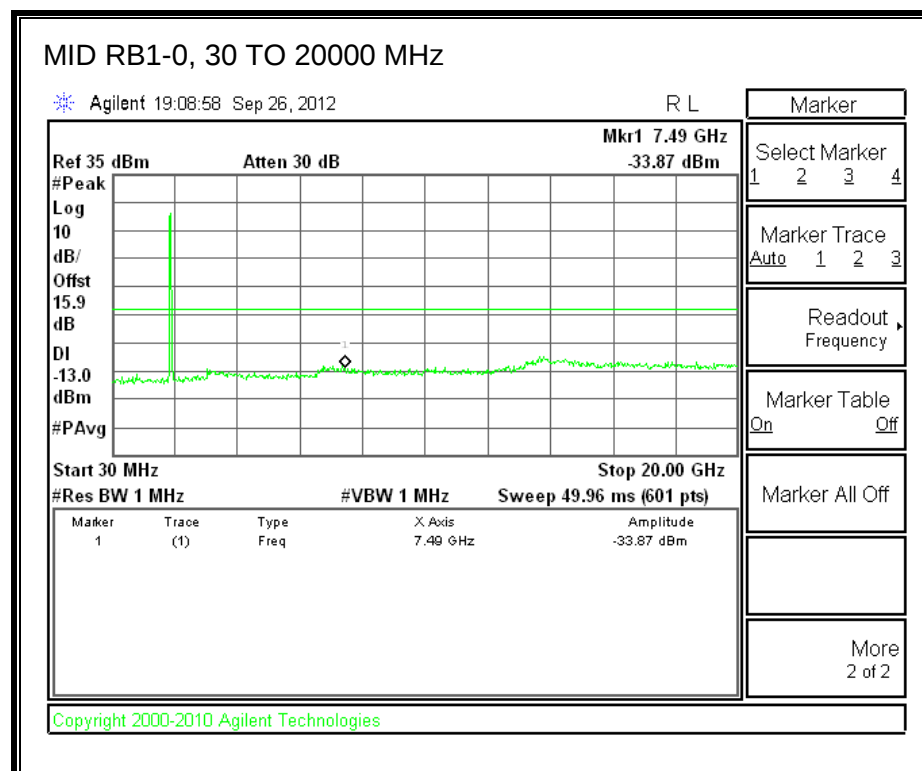
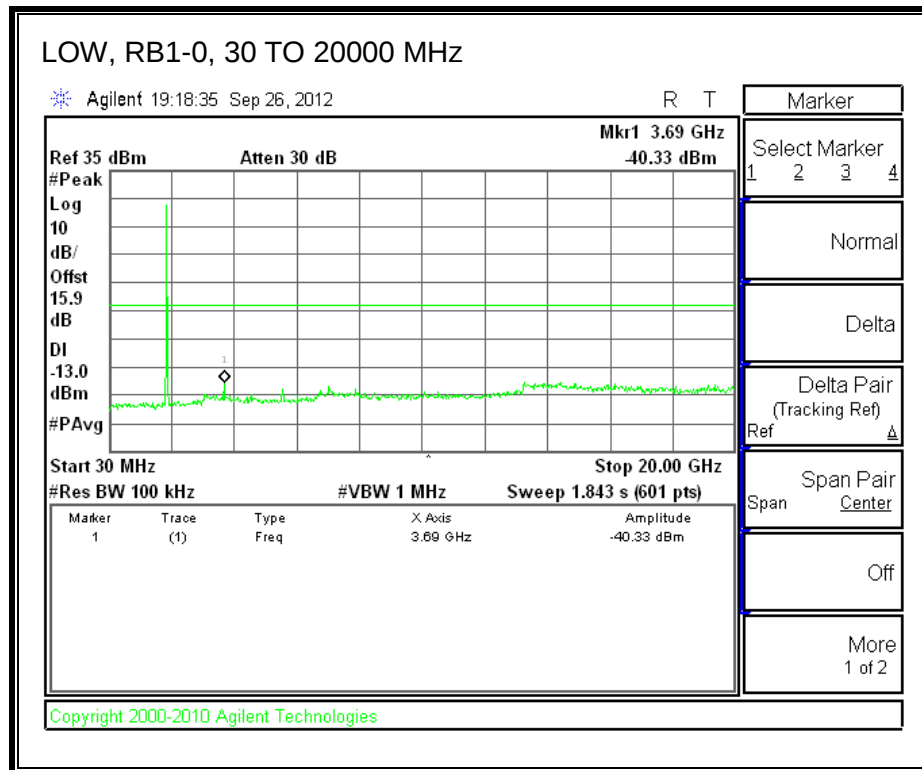


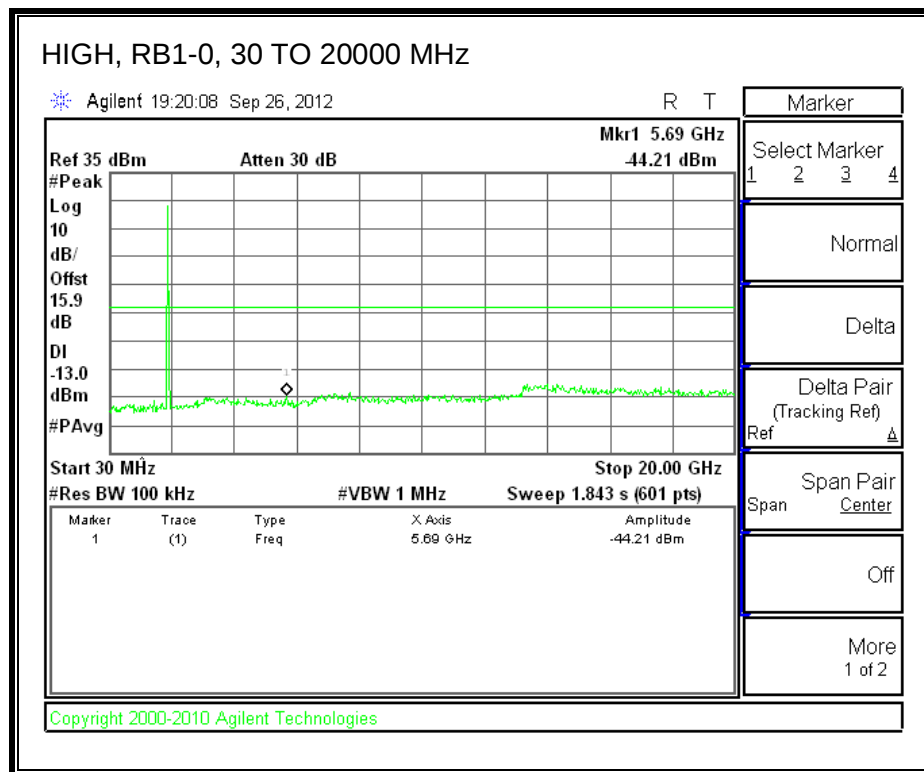
16QAM

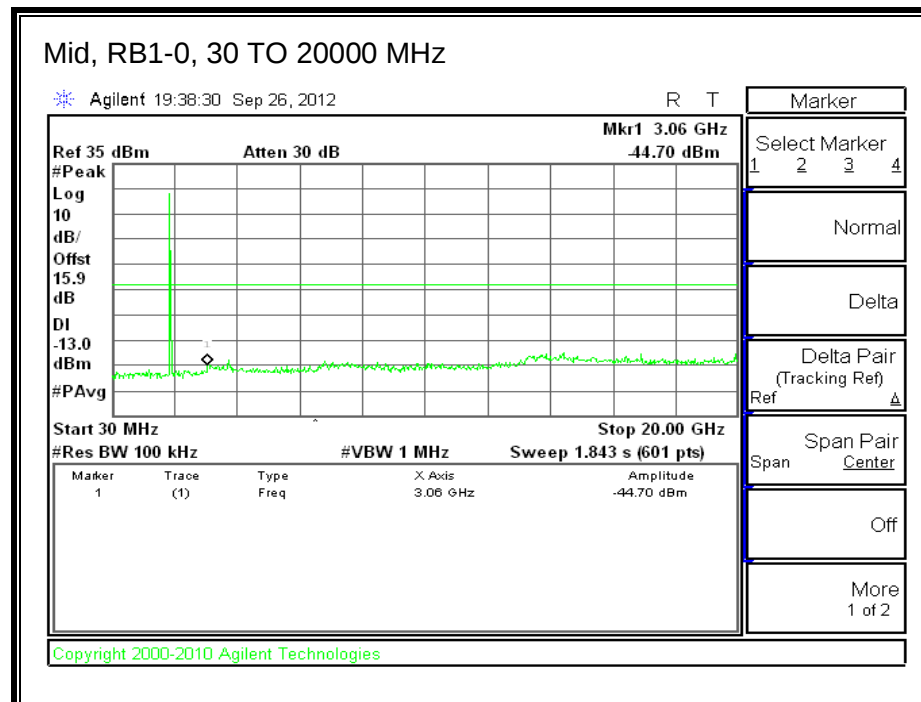
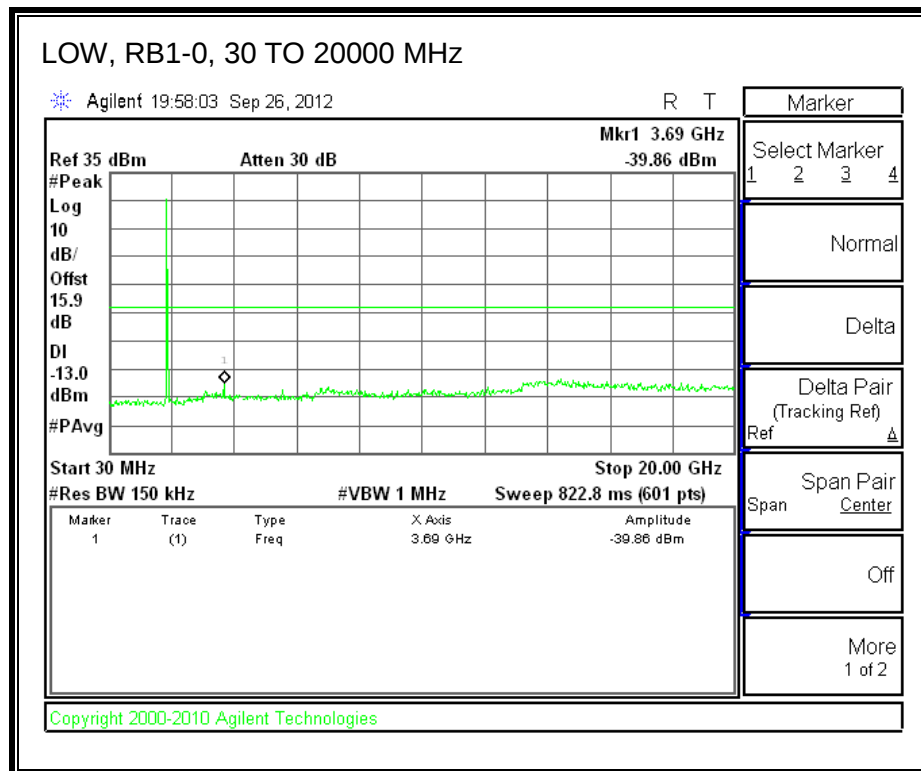


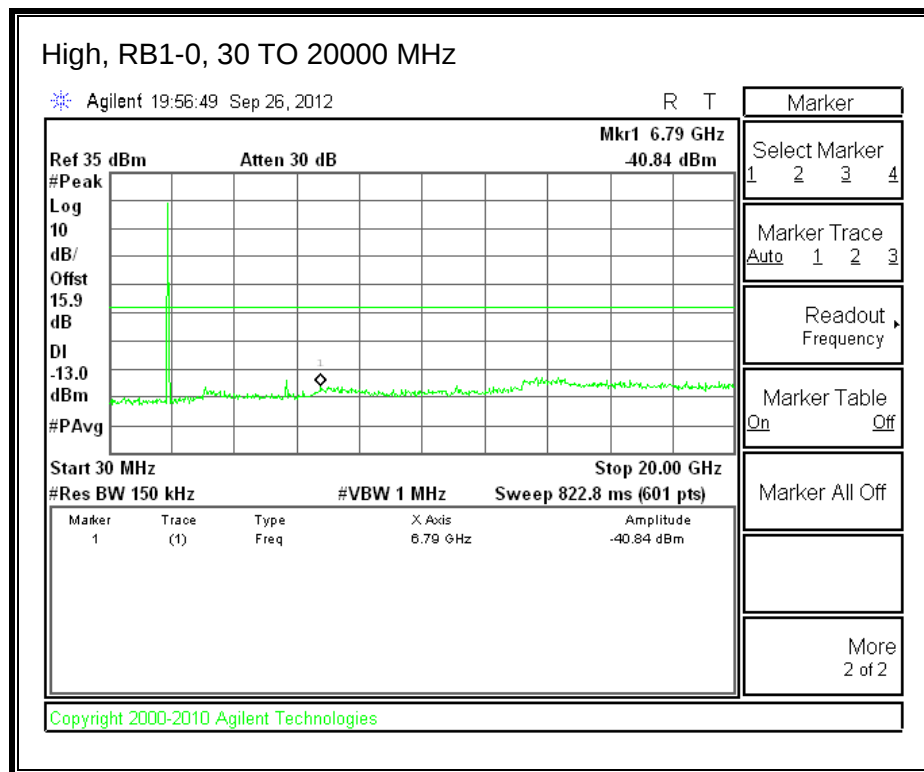
Band 2 (10 MHz BANDWIDTH)**QPSK**

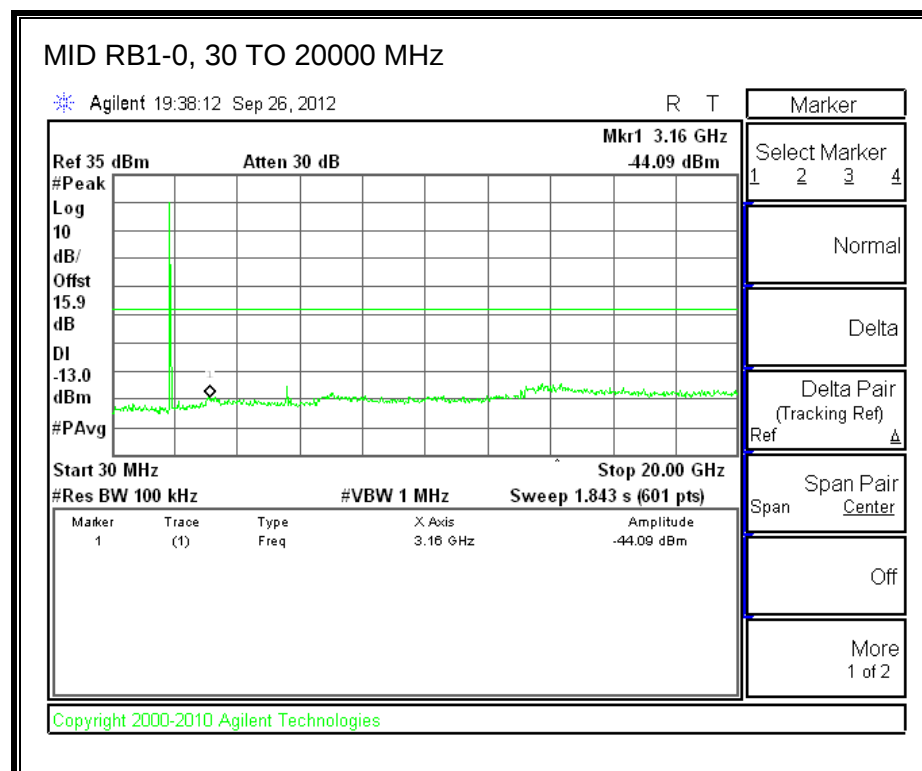
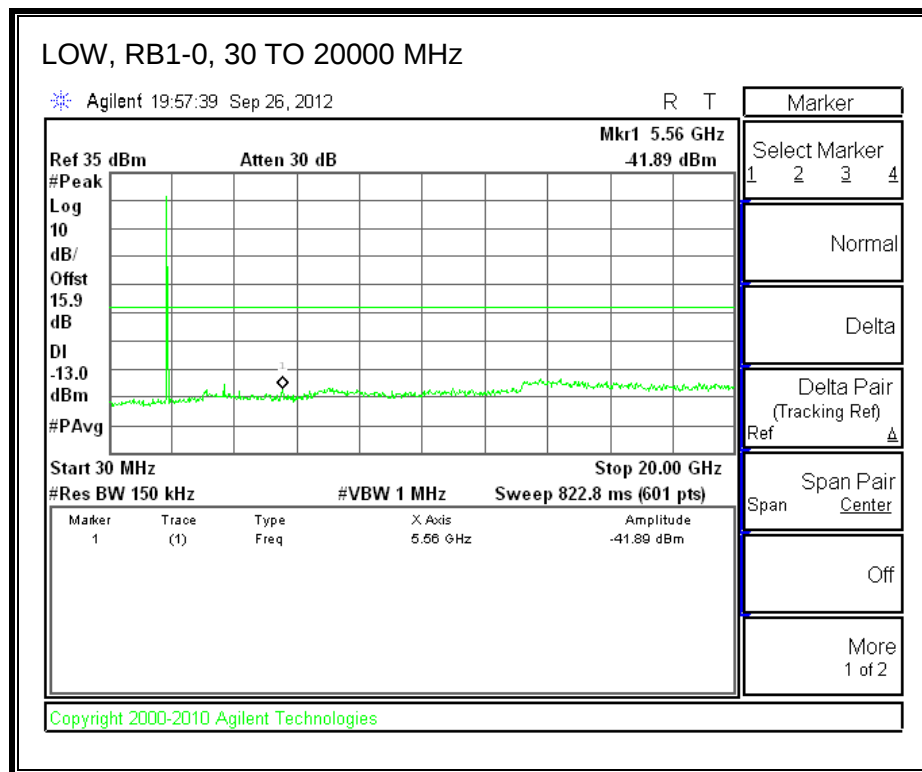


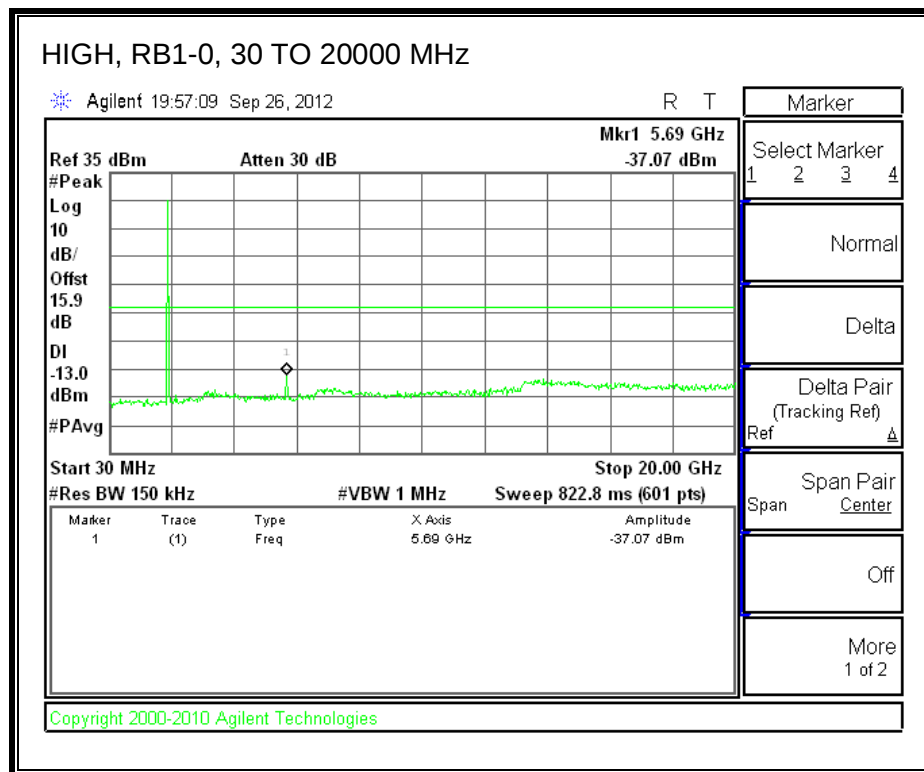
16QAM

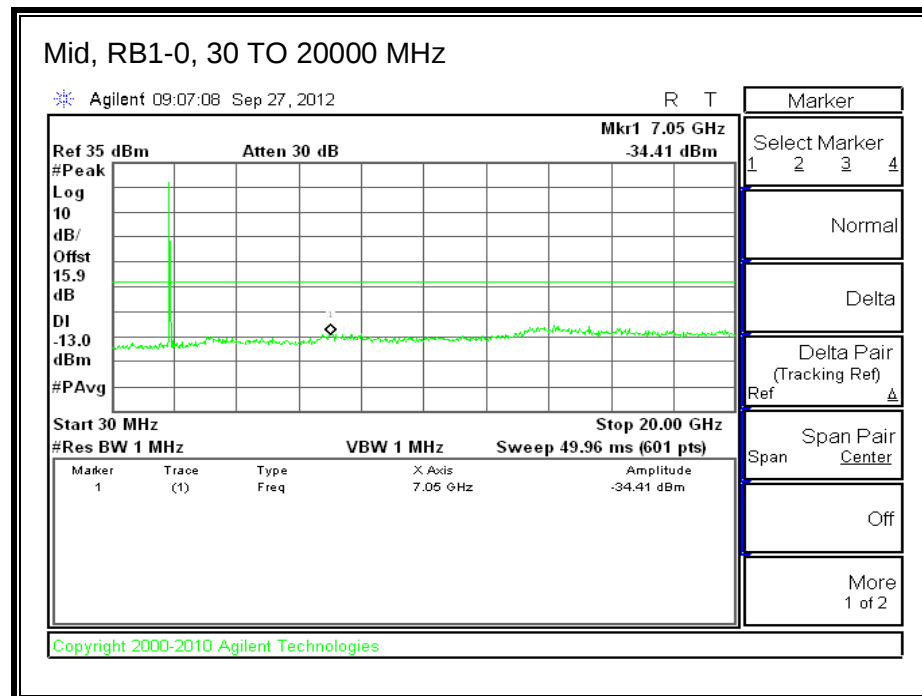
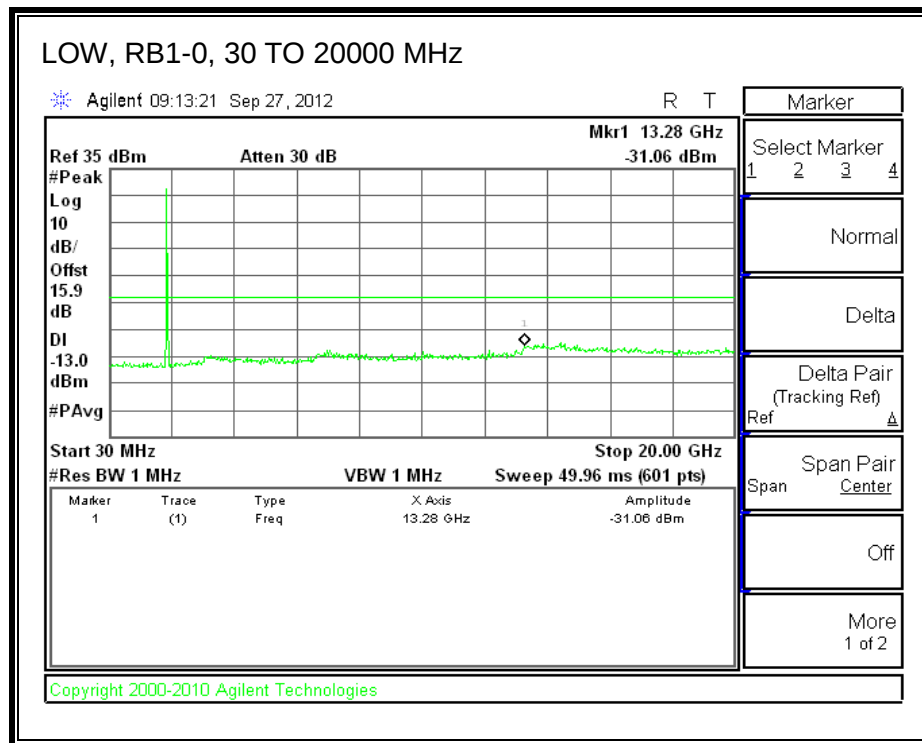


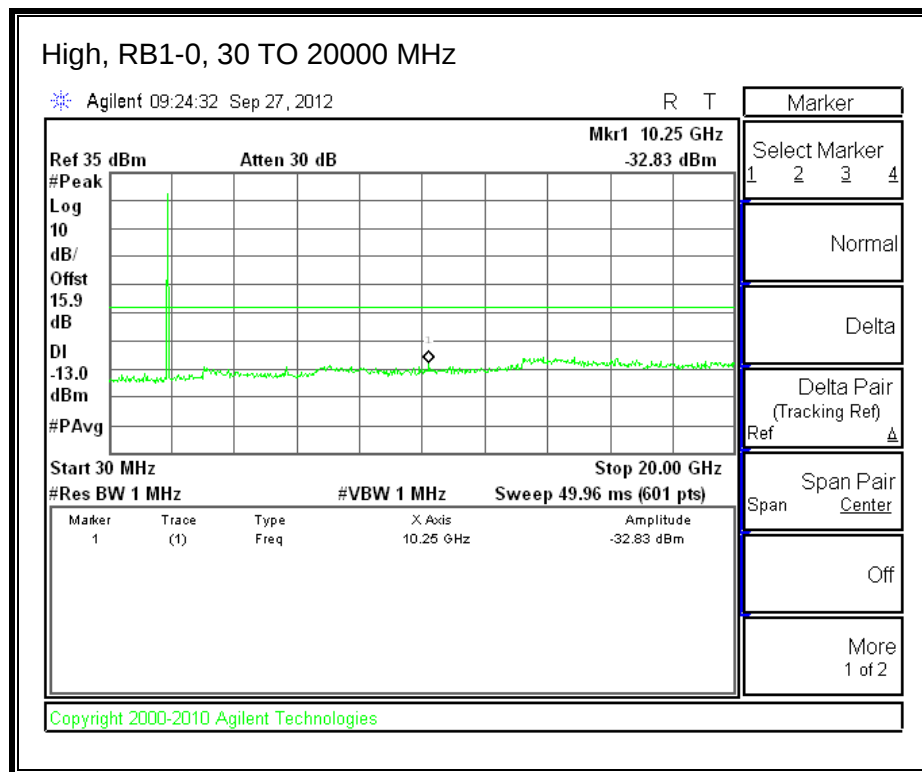
Band 2 (15 MHz BANDWIDTH)**QPSK**

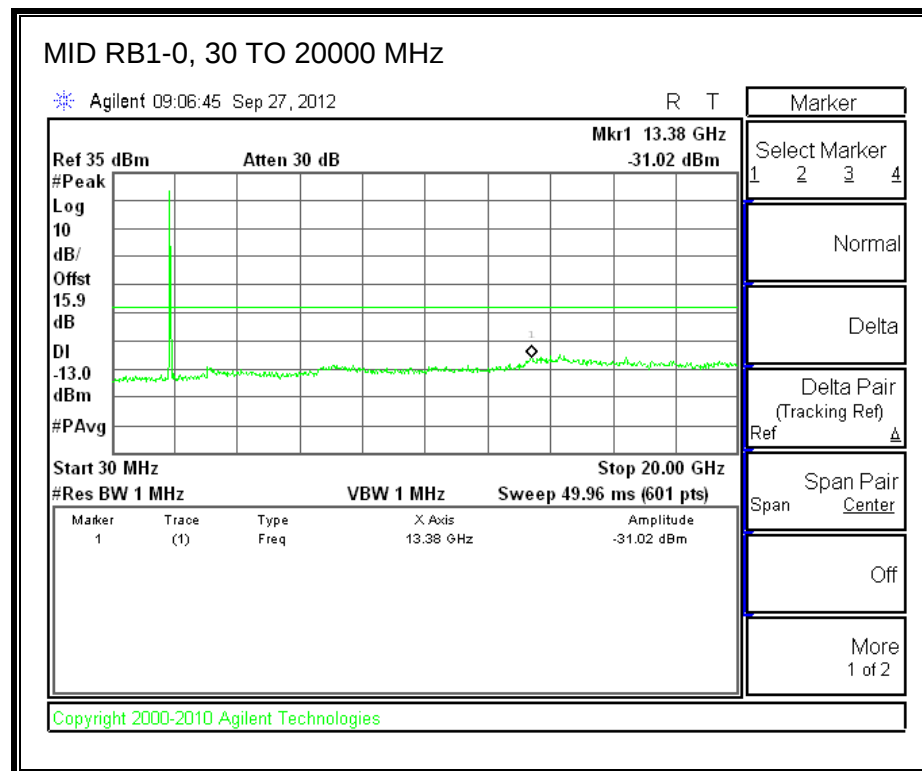
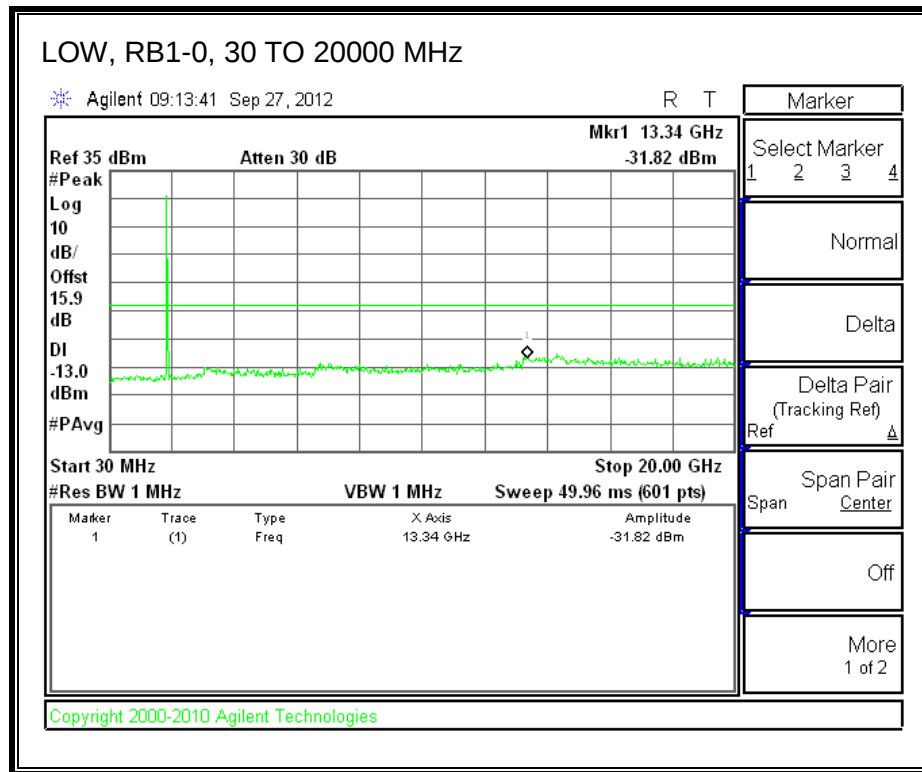


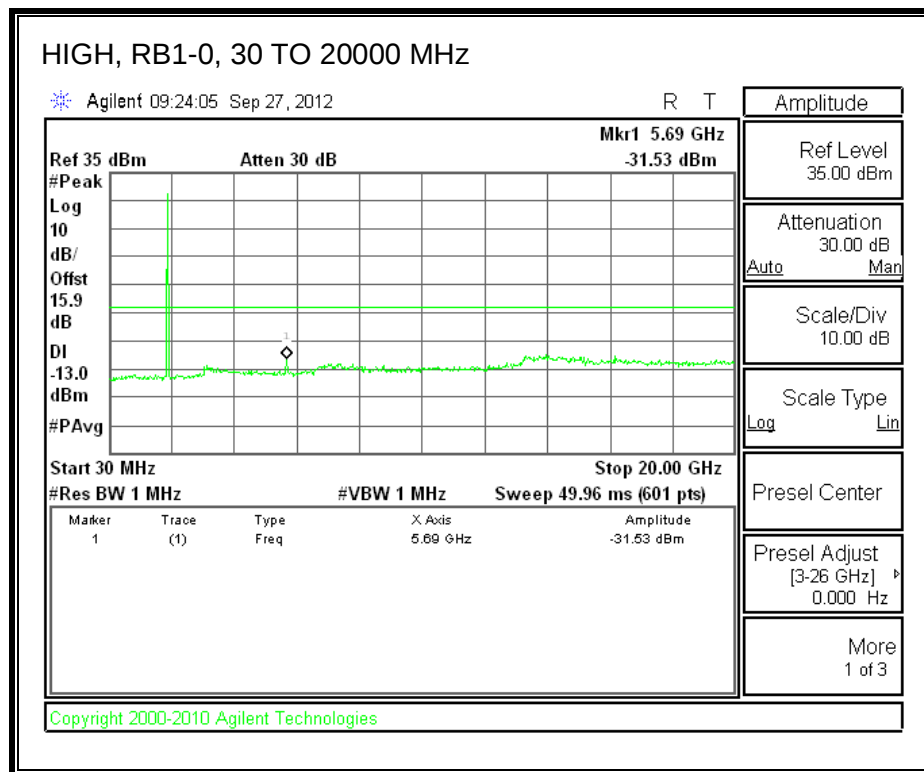
16QAM

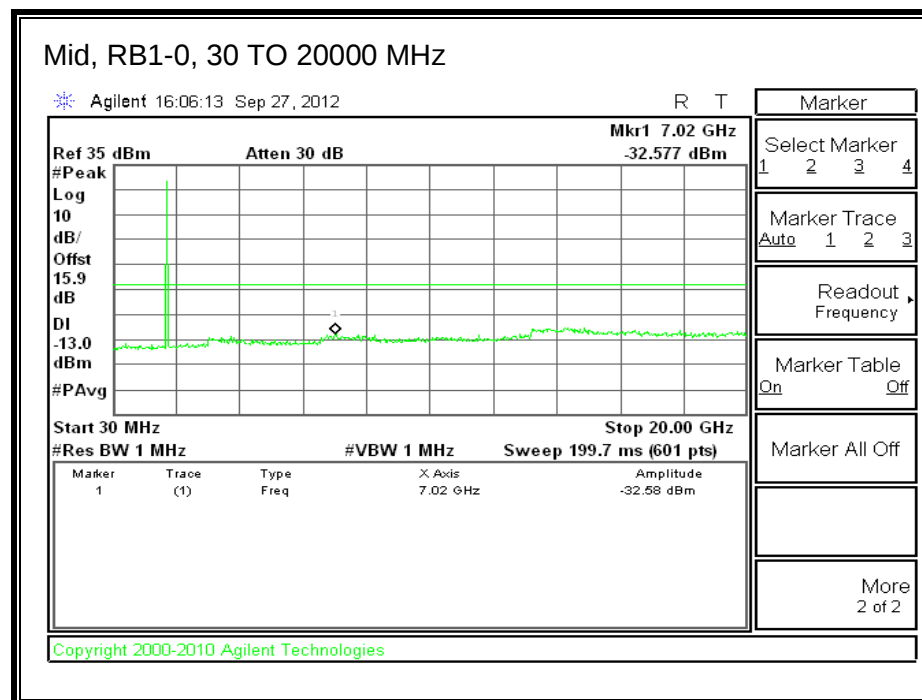
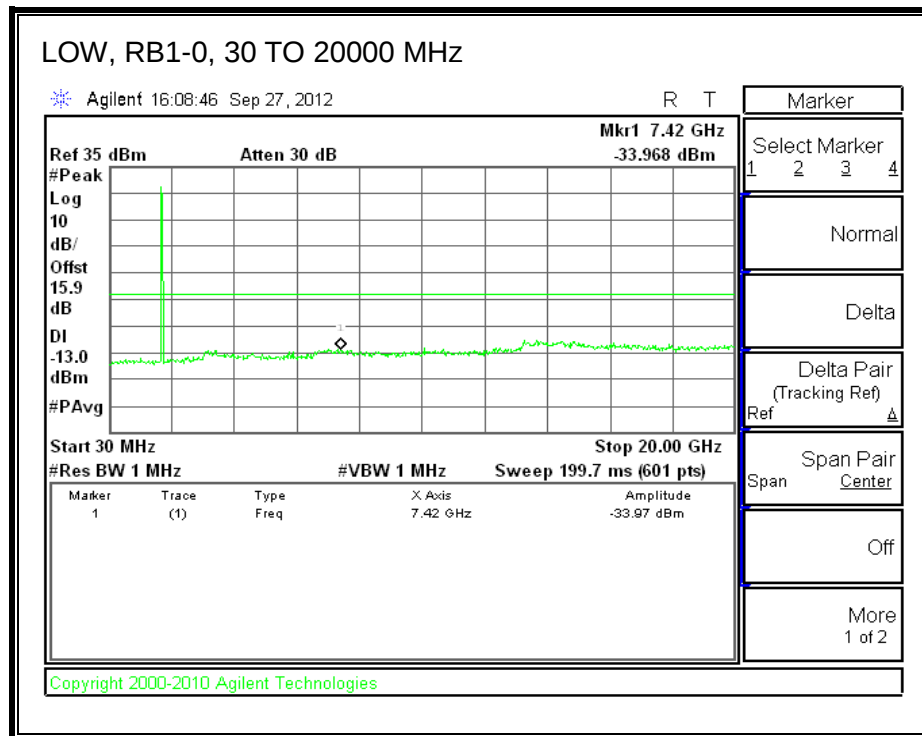


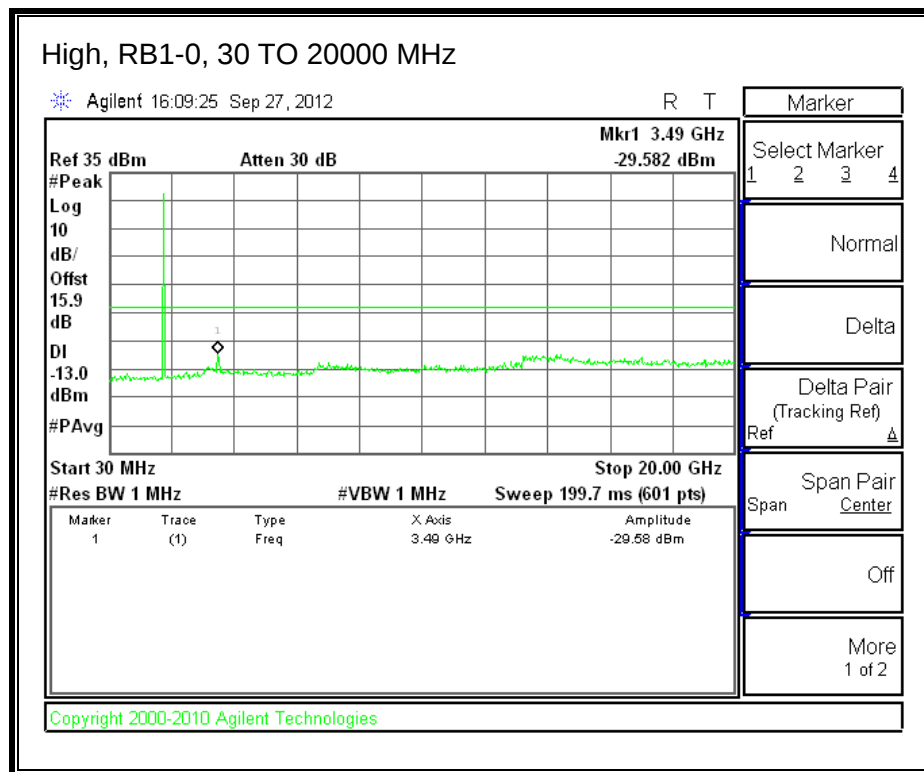
Band 2 (20 MHz BANDWIDTH)**QPSK**

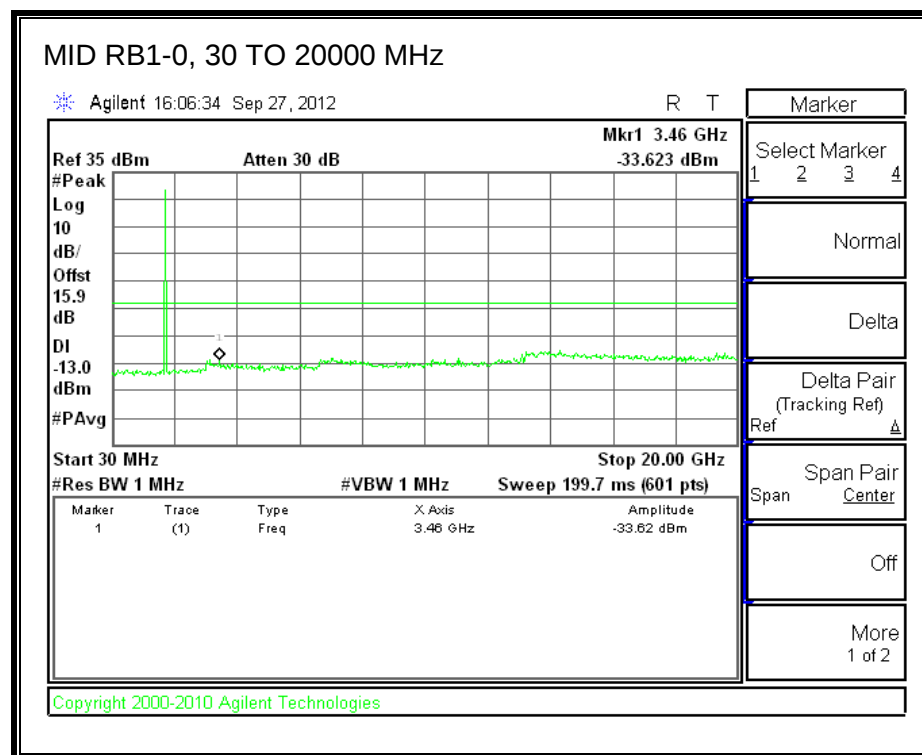
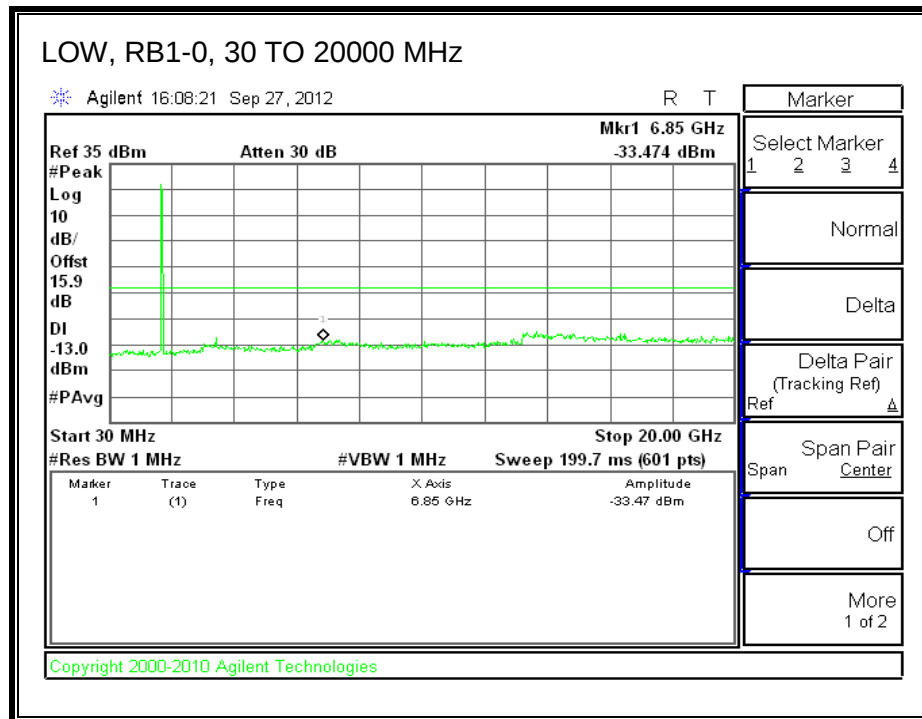


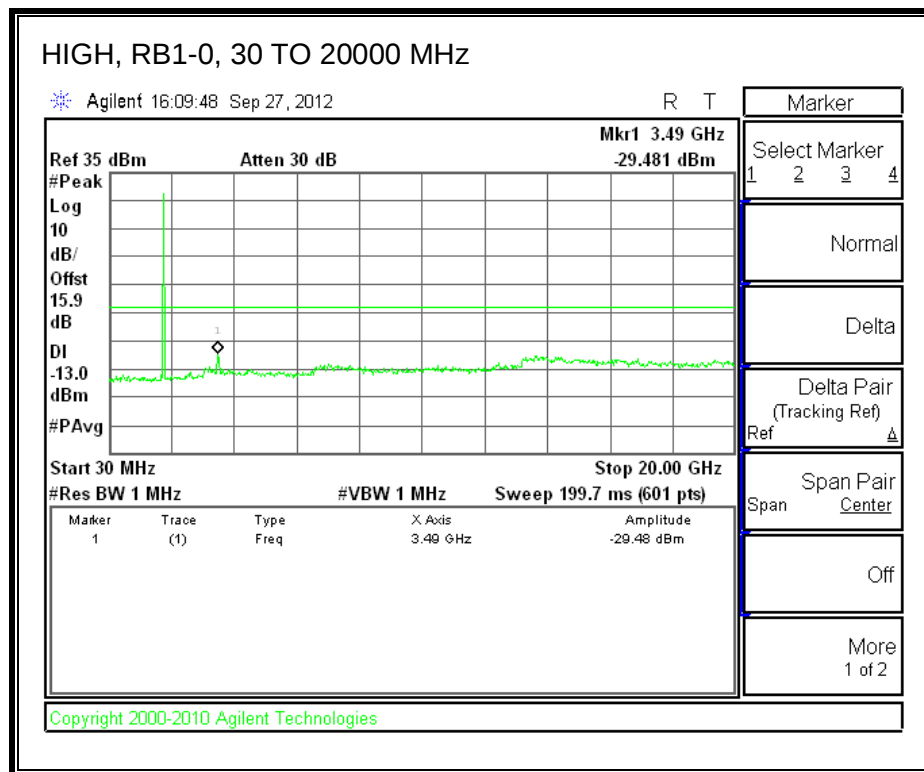
16QAM

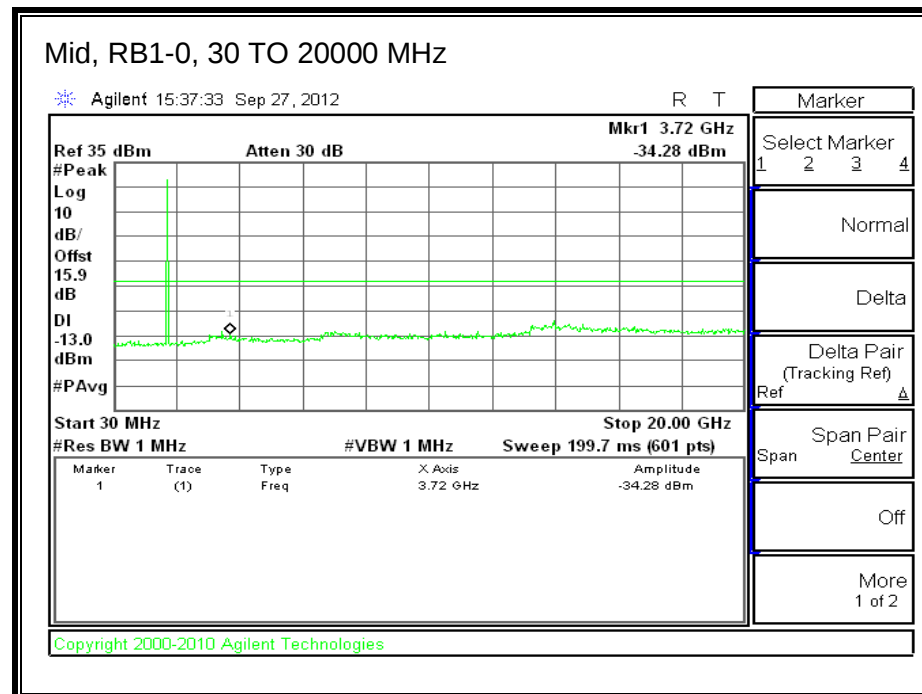
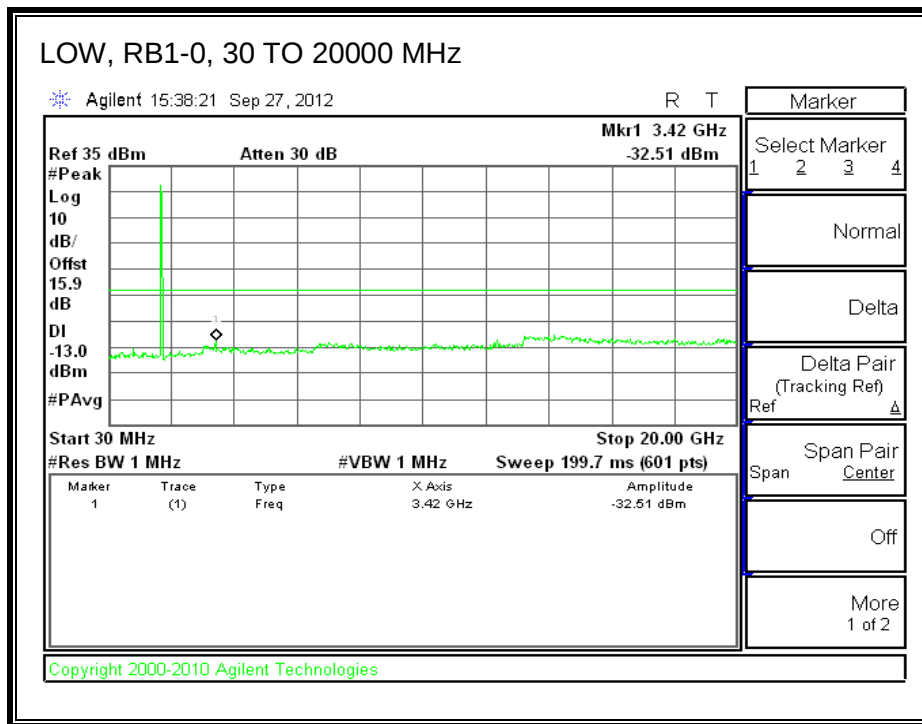


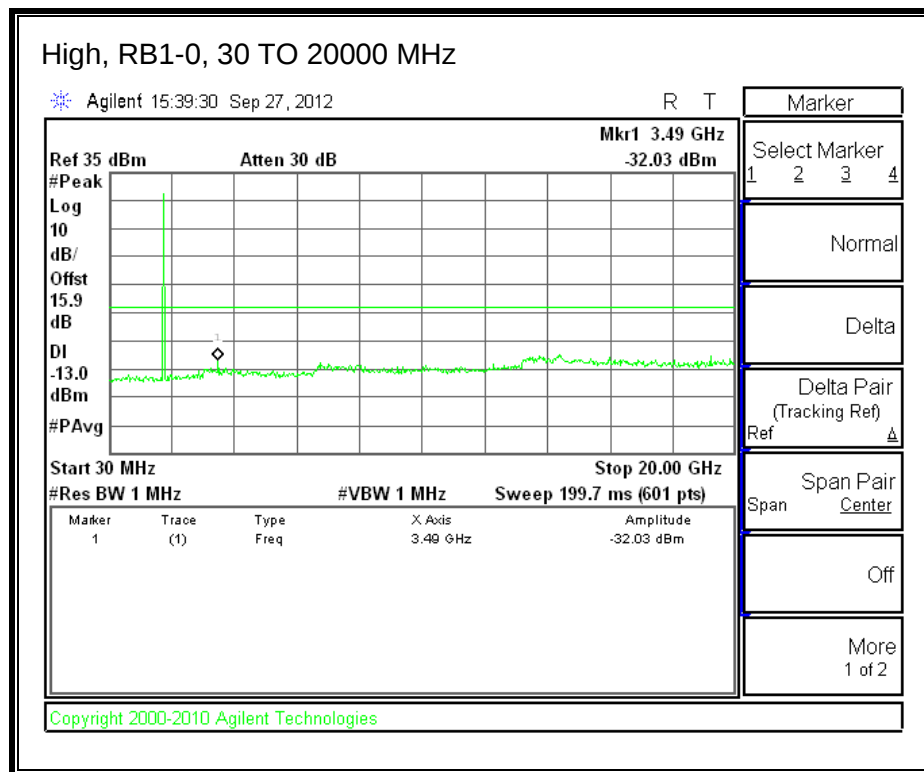
8.3.4. LTE BAND 4**QPSK (1.4 MHz BANDWIDTH)**

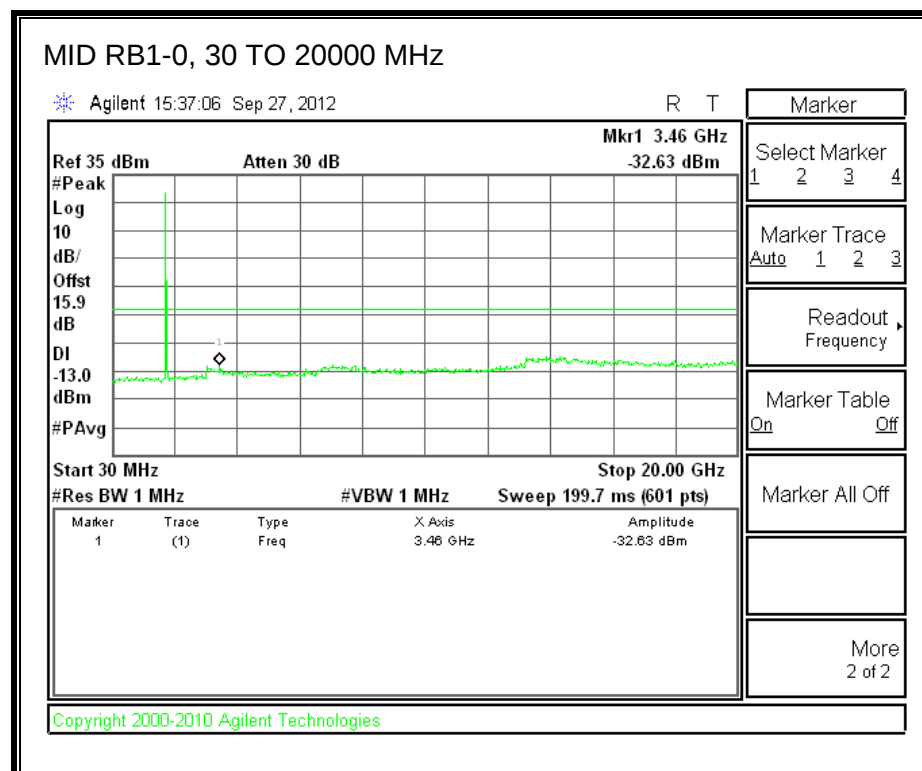
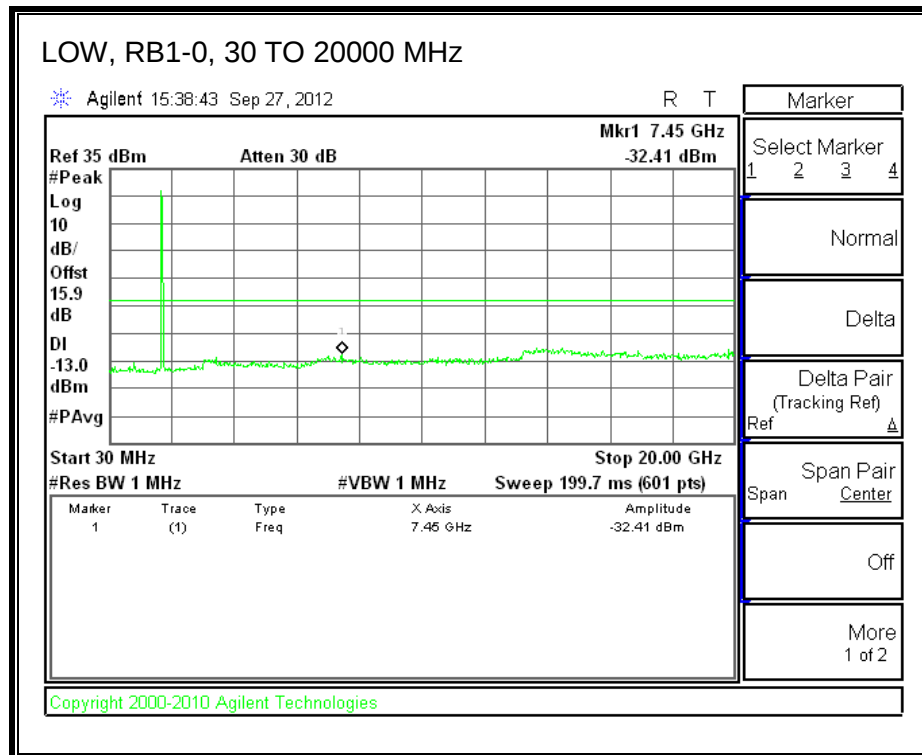


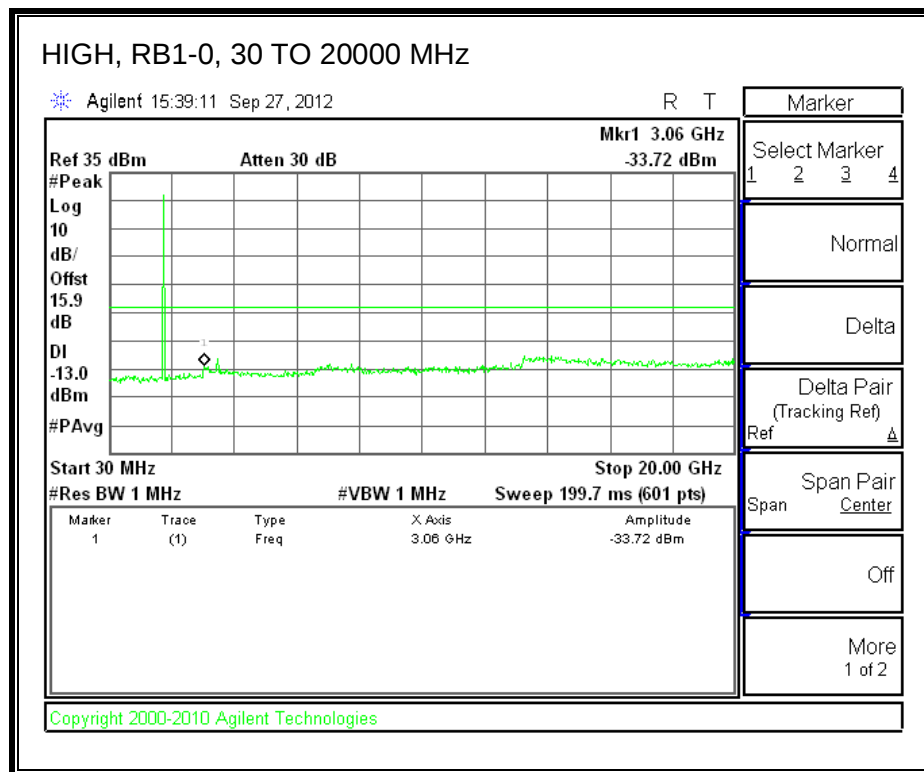
16QAM

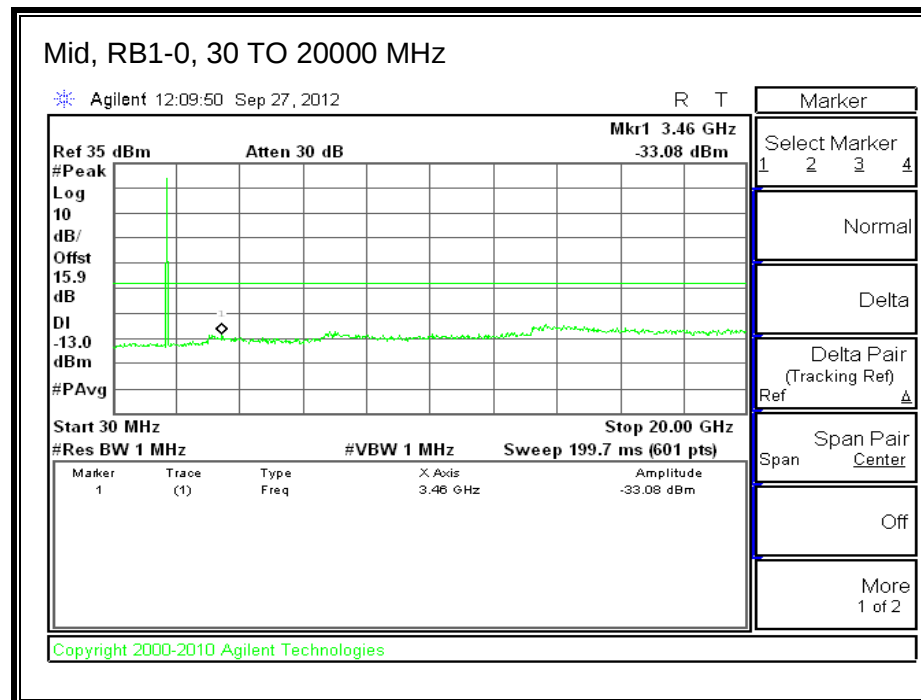
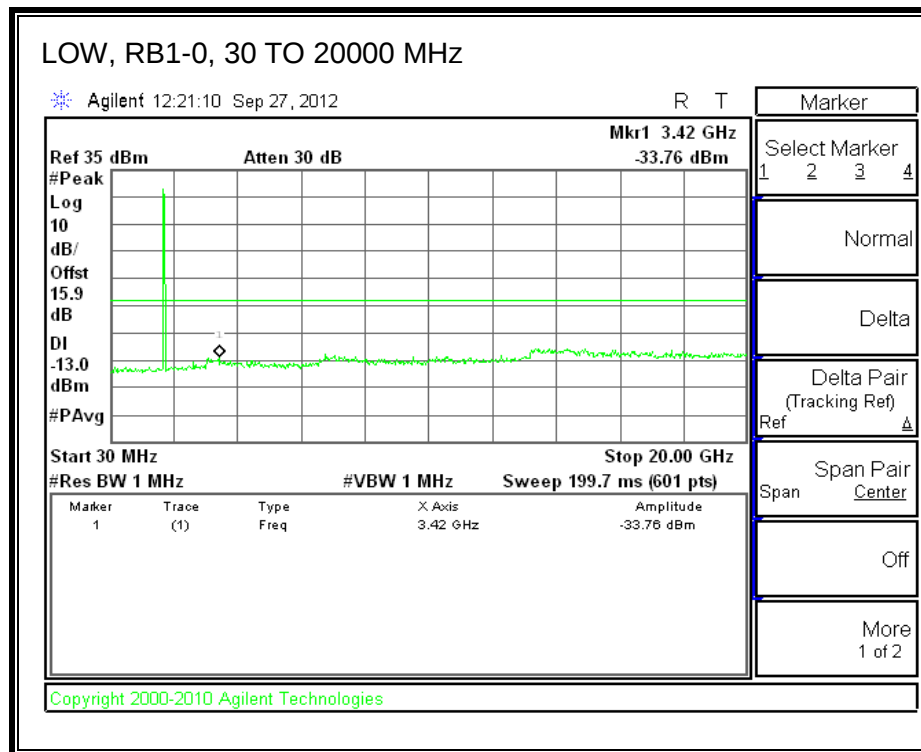


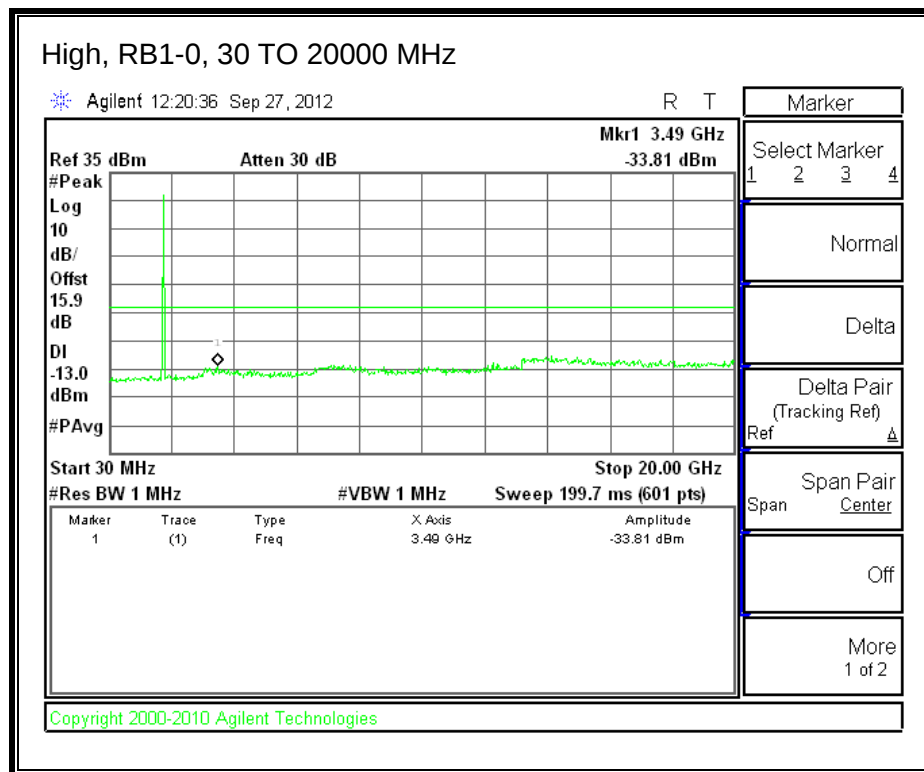
Band 4 (3 MHz BANDWIDTH)**QPSK**

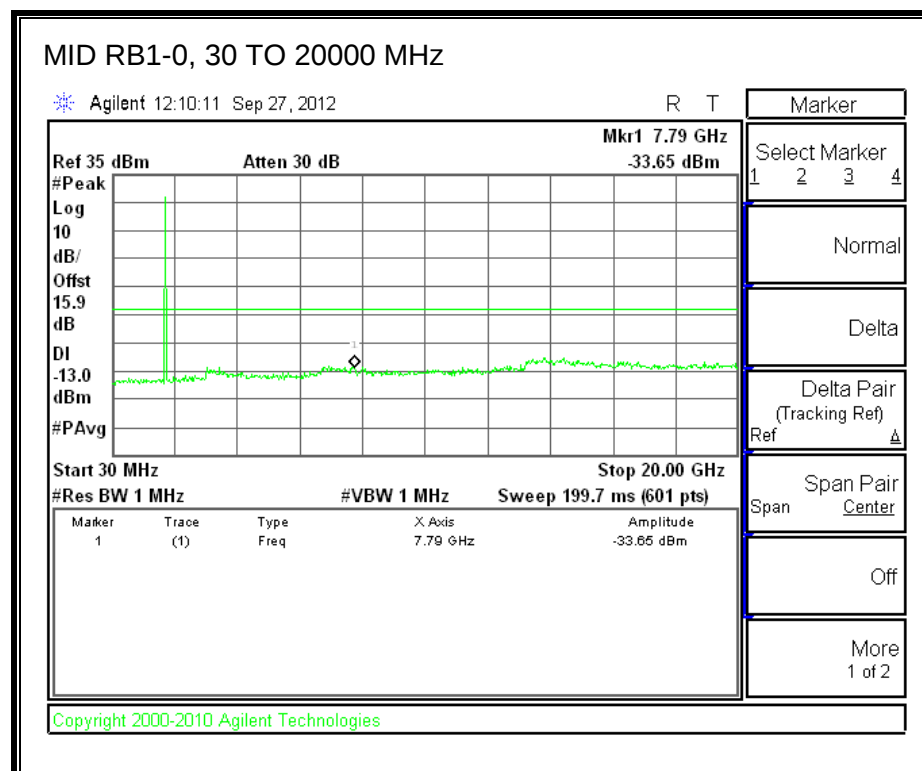
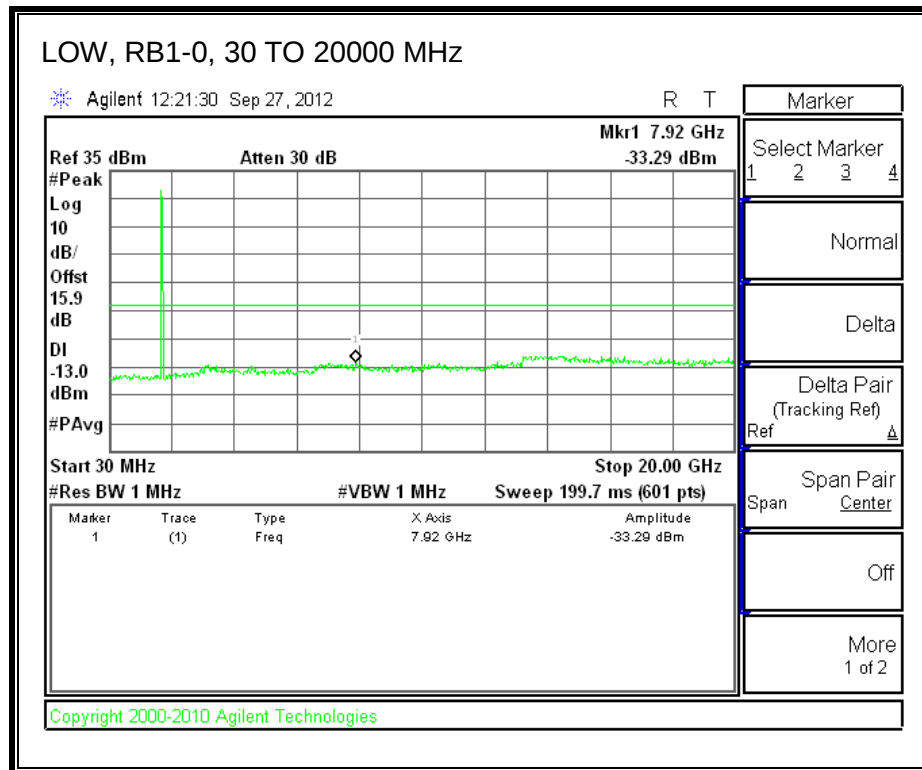


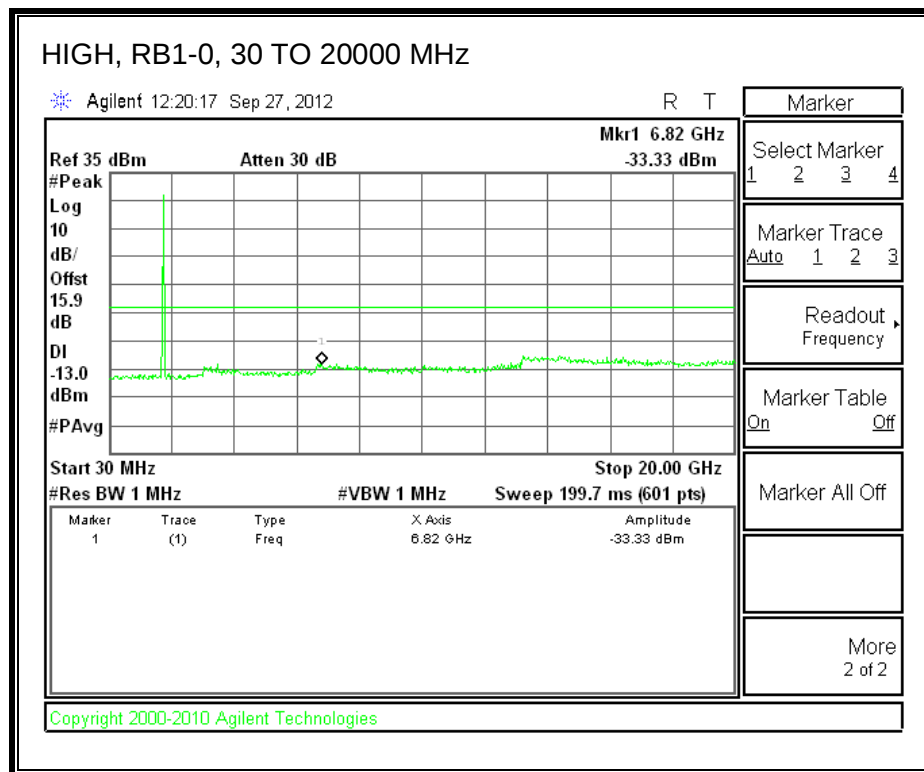
16QAM

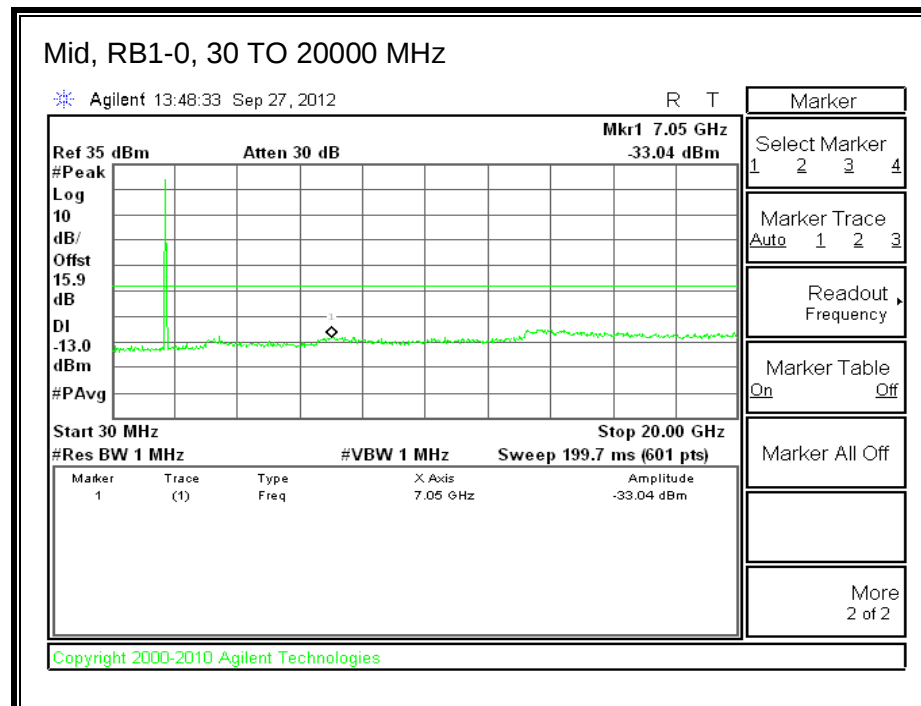
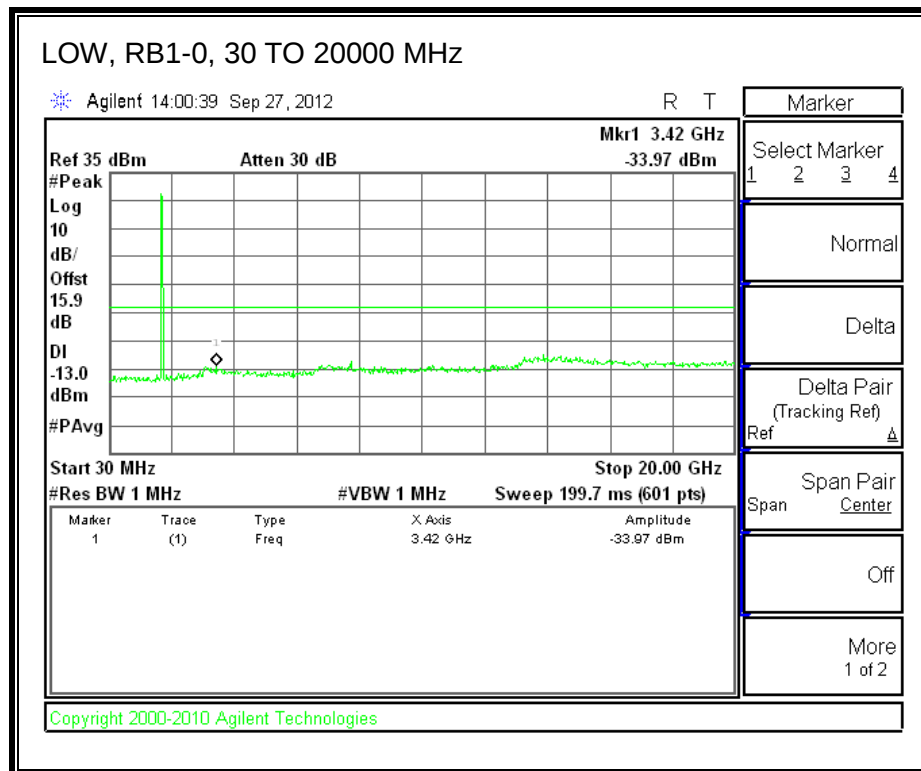


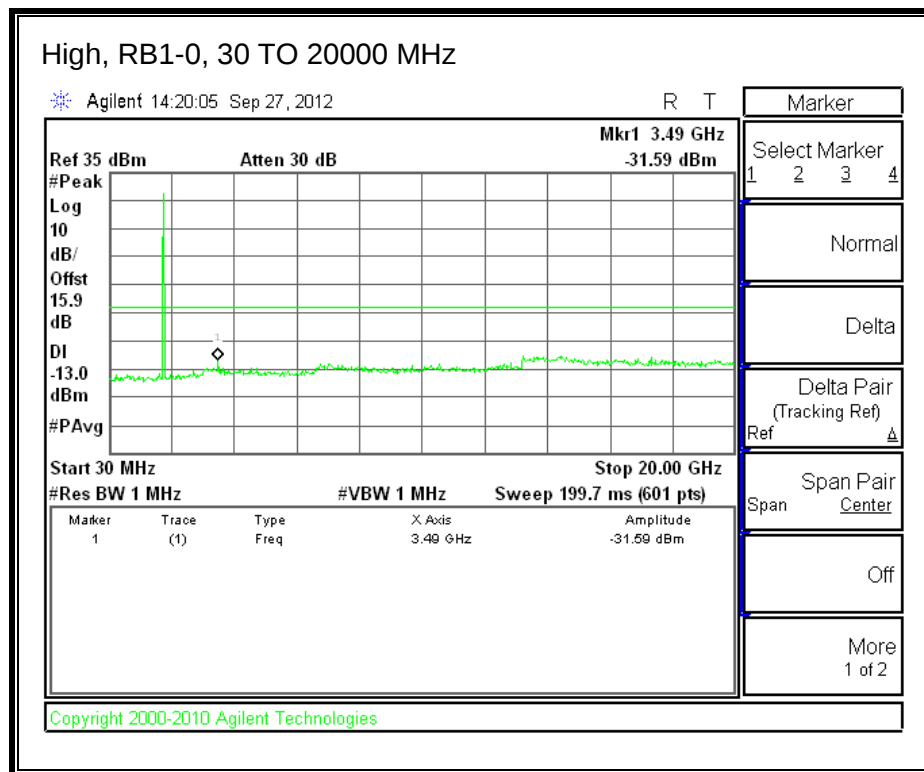
Band 4 (5 MHz BANDWIDTH)**QPSK**

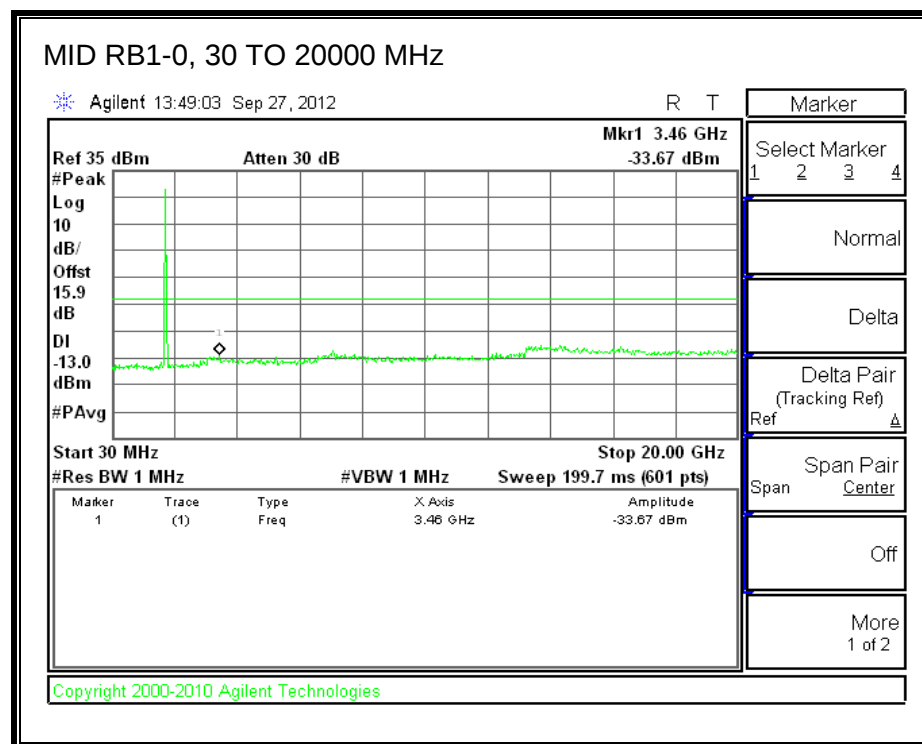
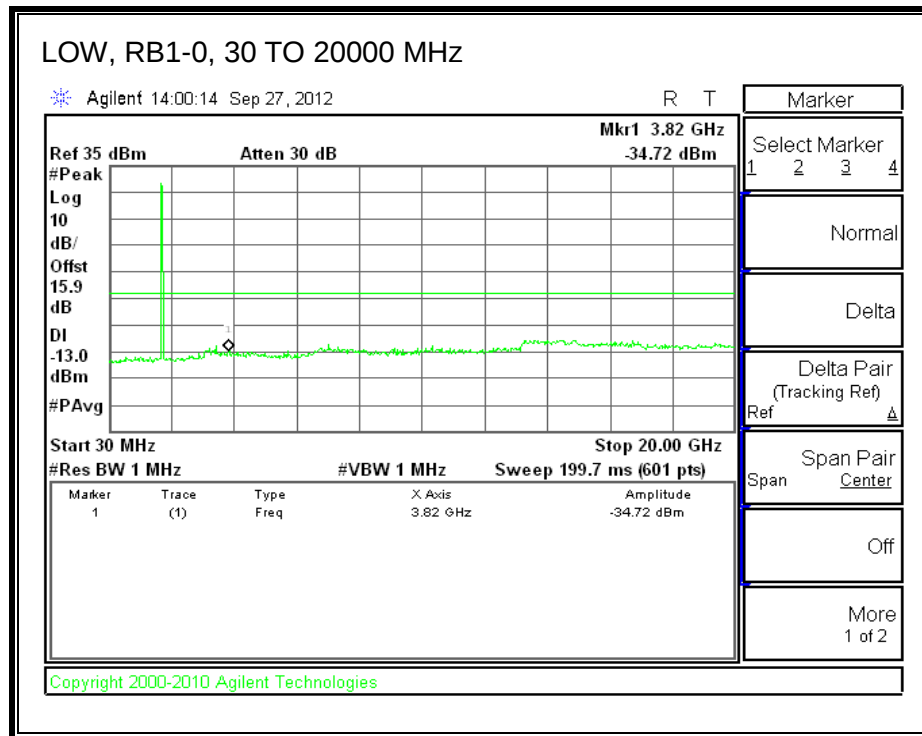


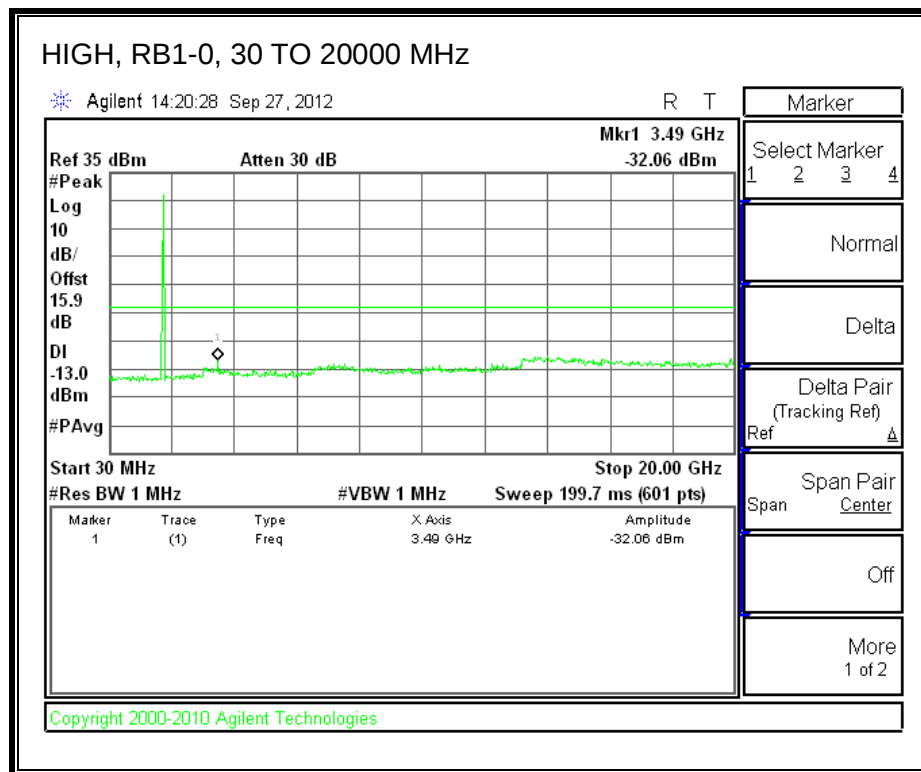
16QAM

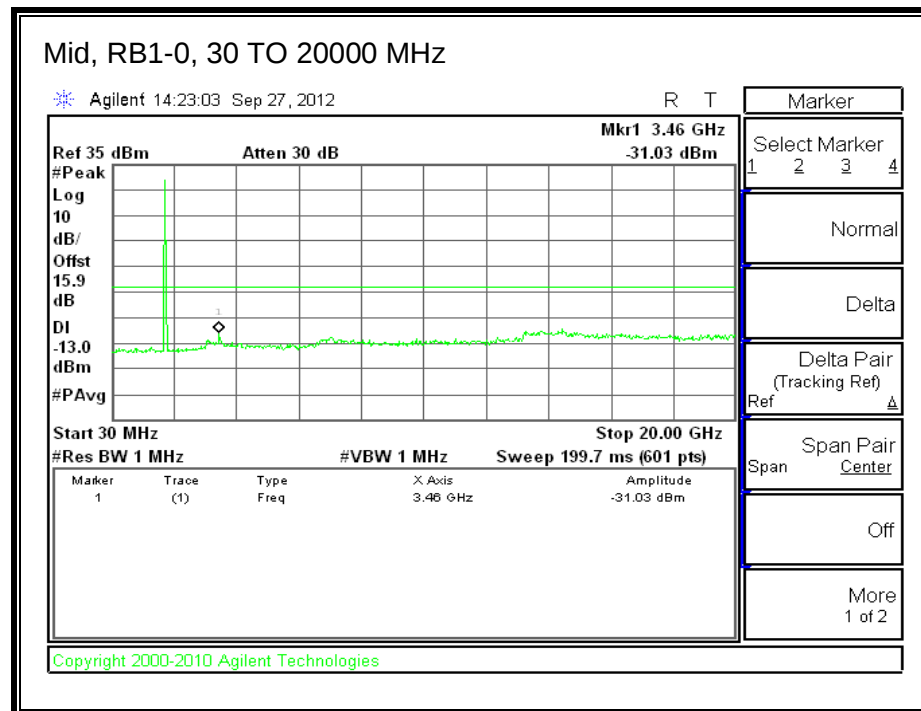
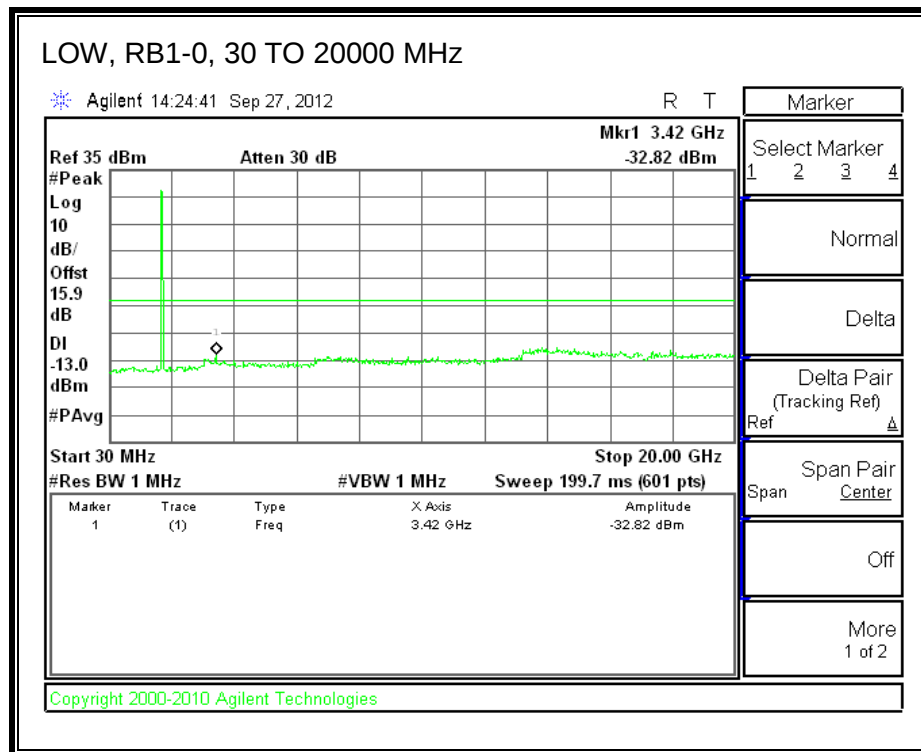


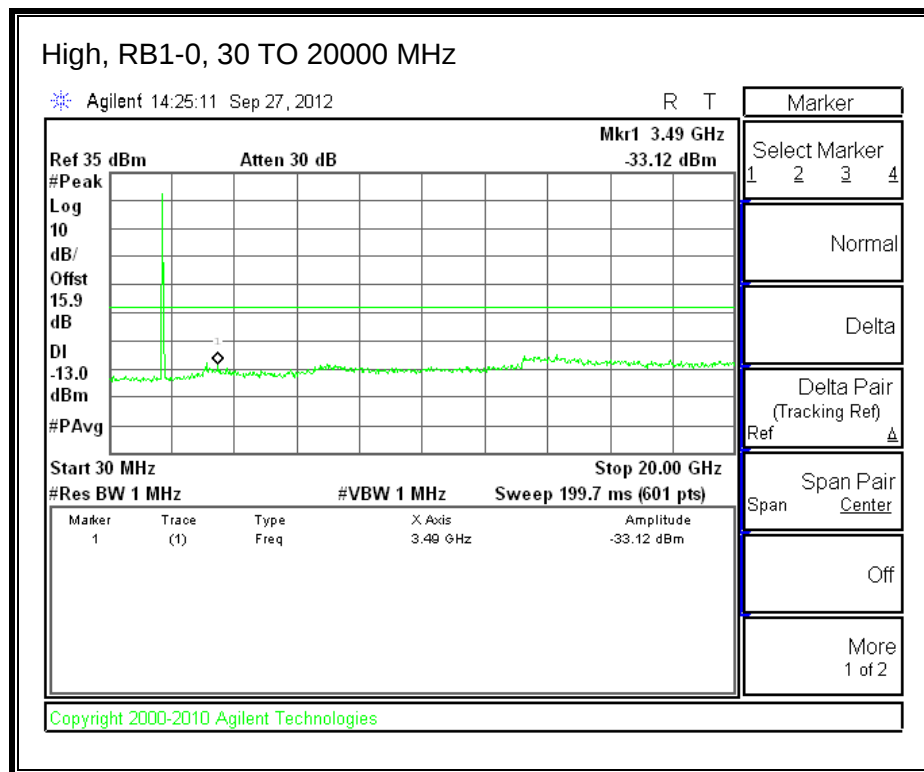
Band 4 (10 MHz BANDWIDTH)**QPSK**

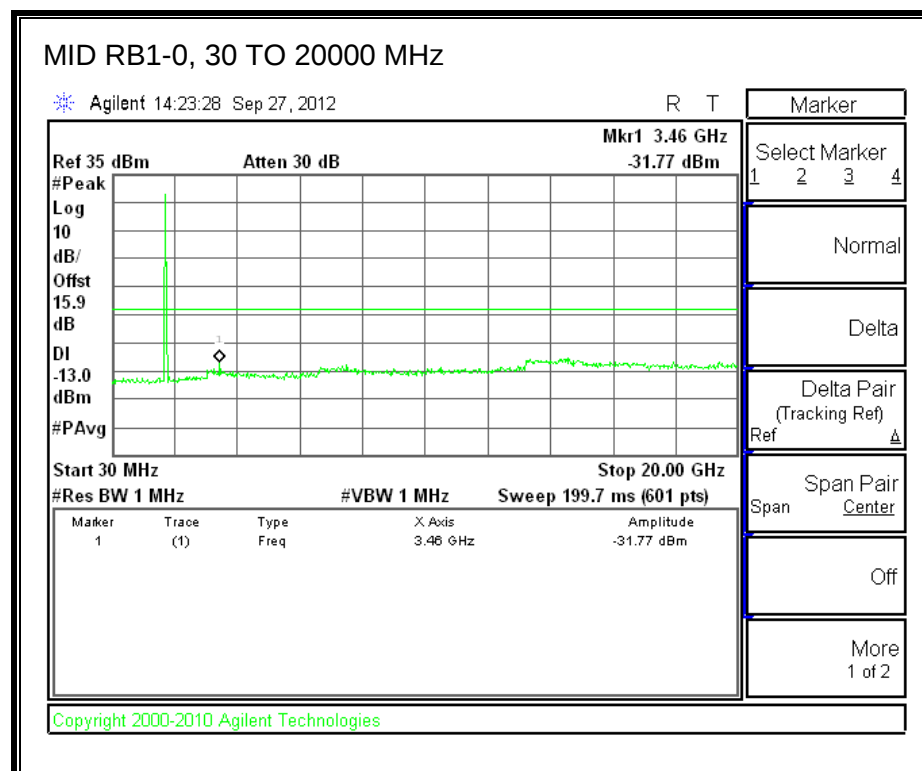
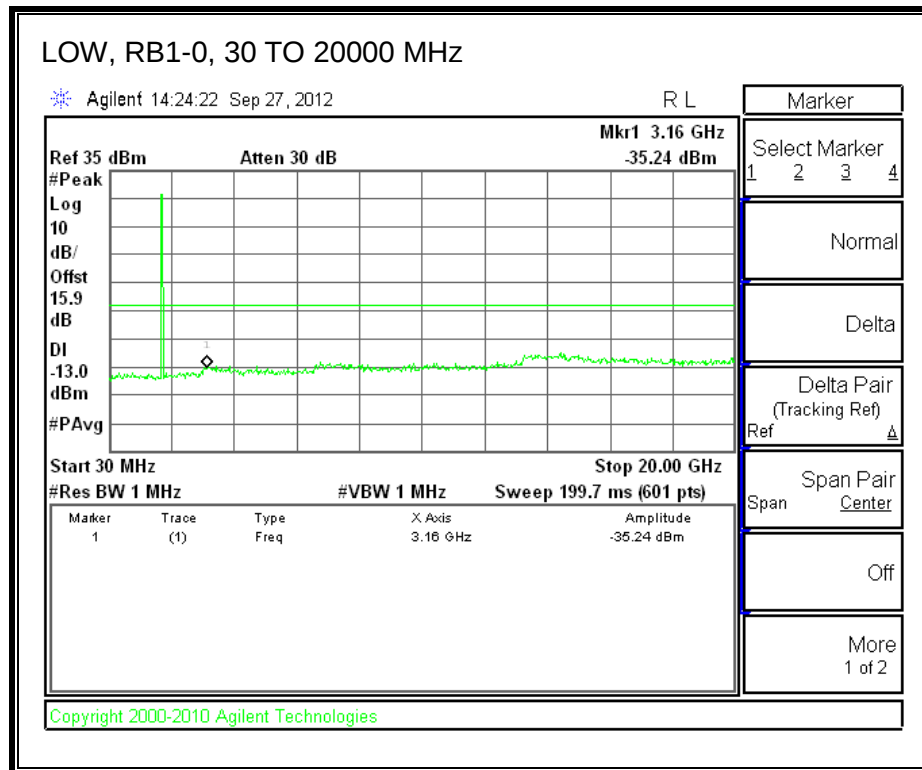


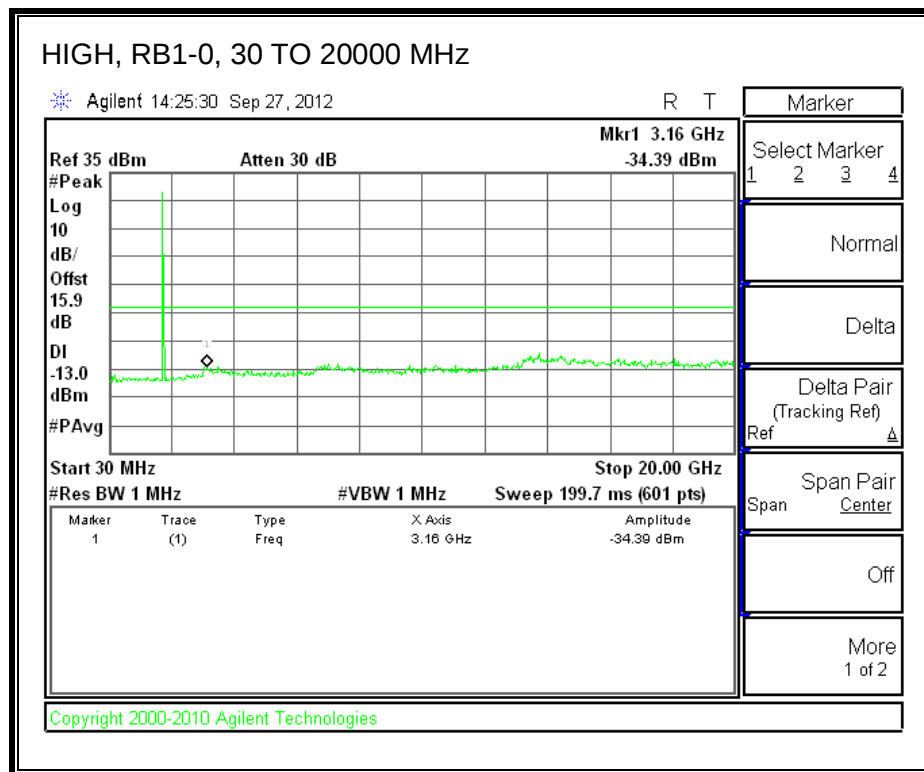
16QAM

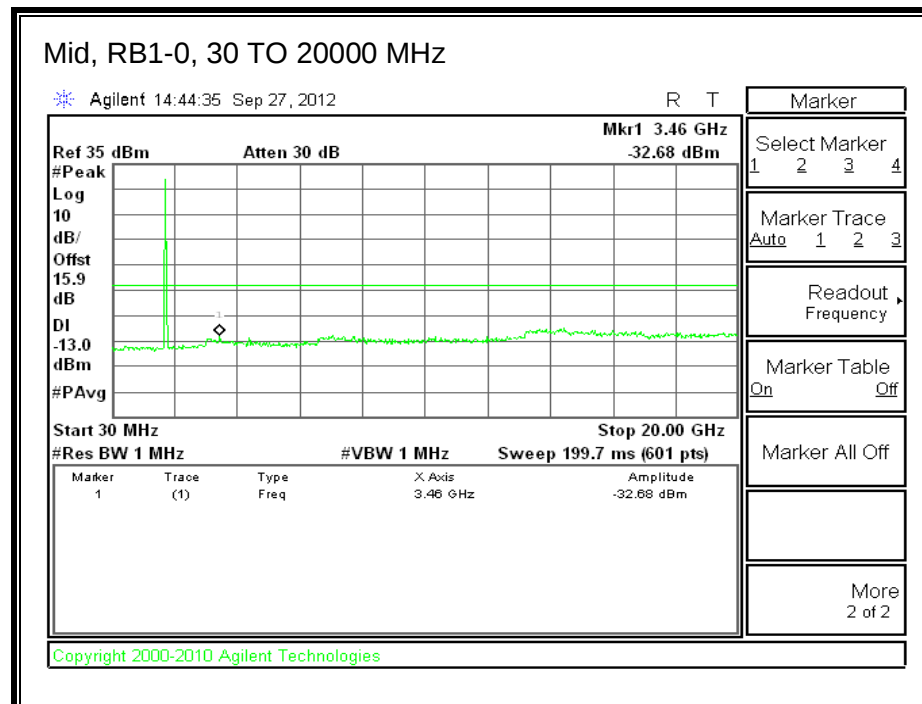
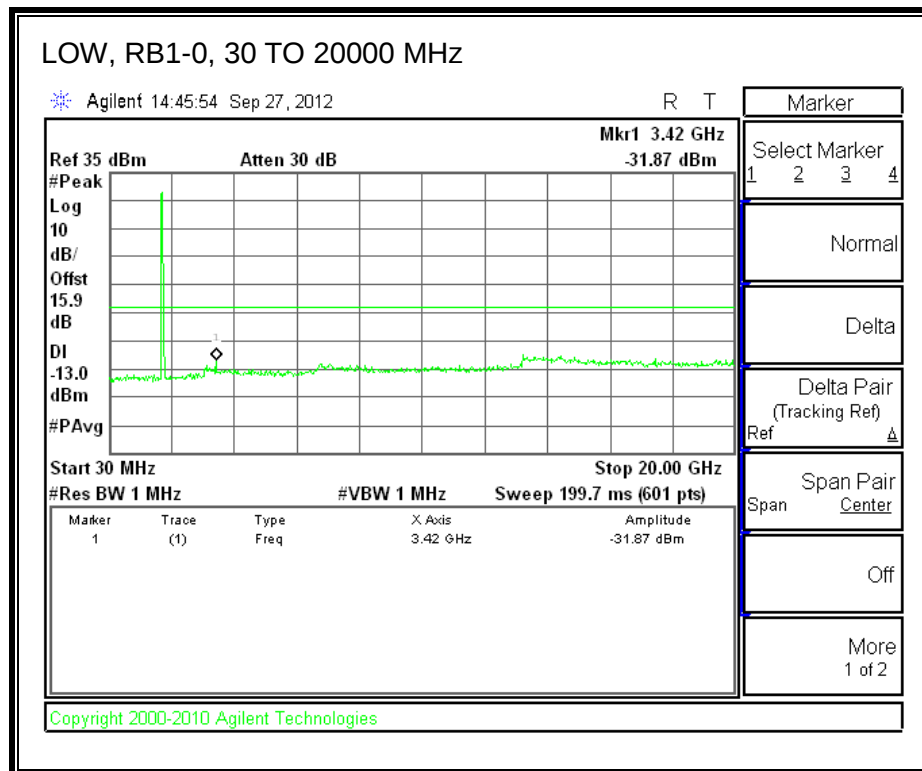


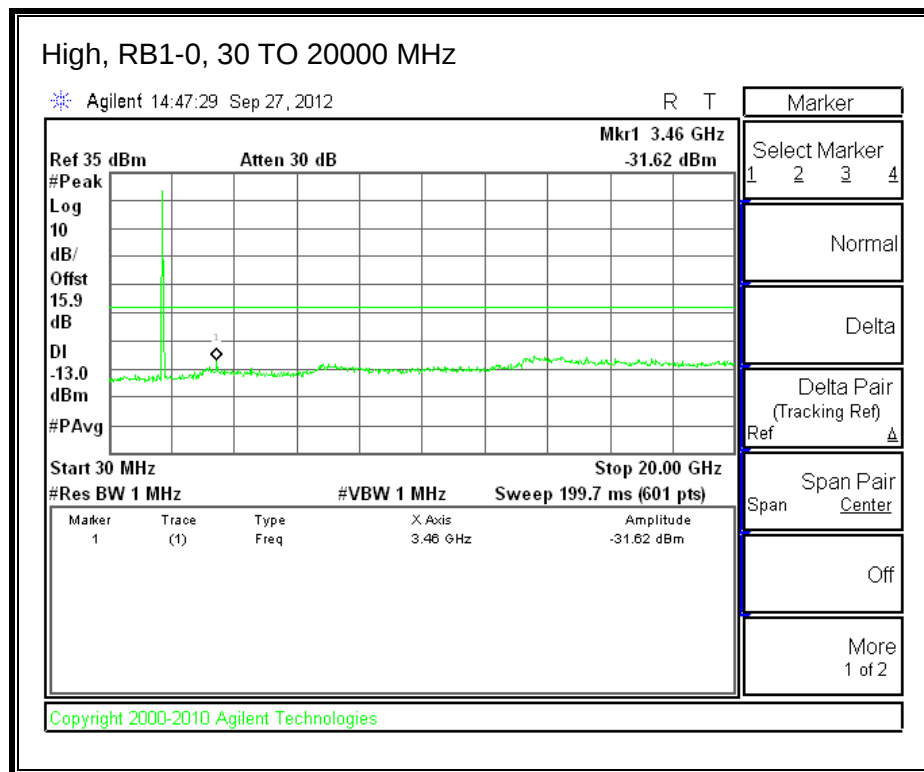
Band 4 (15 MHz BANDWIDTH)**QPSK**

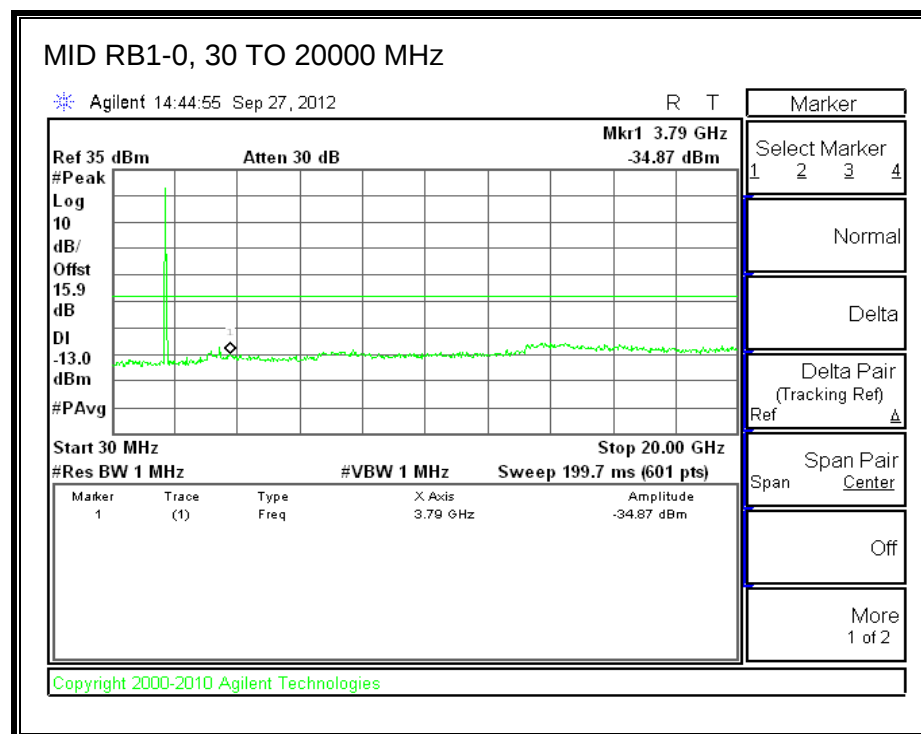
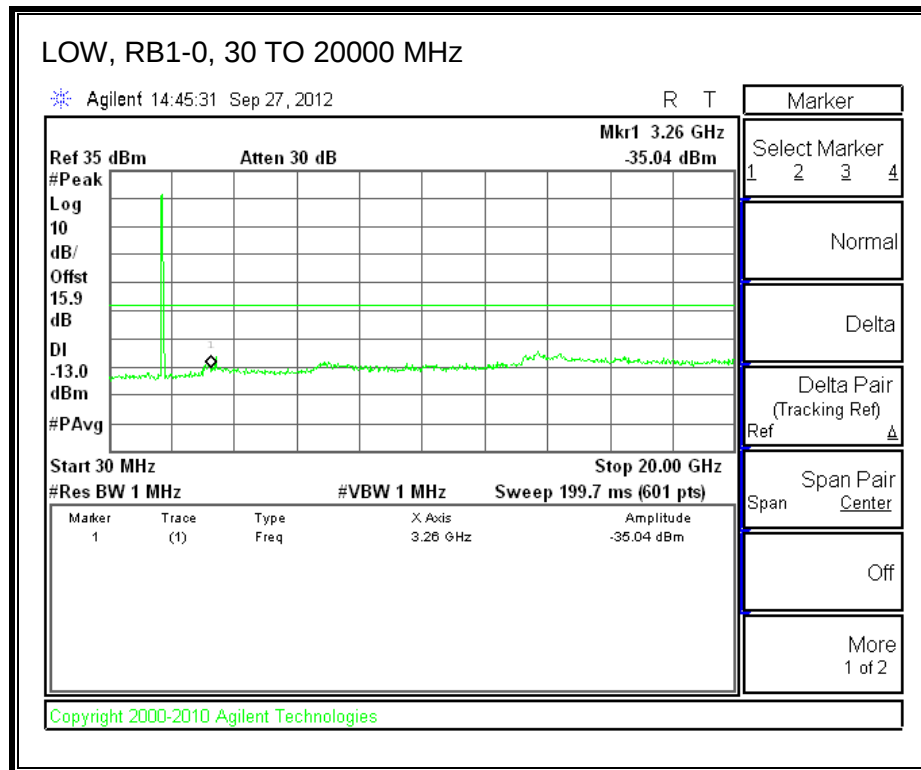


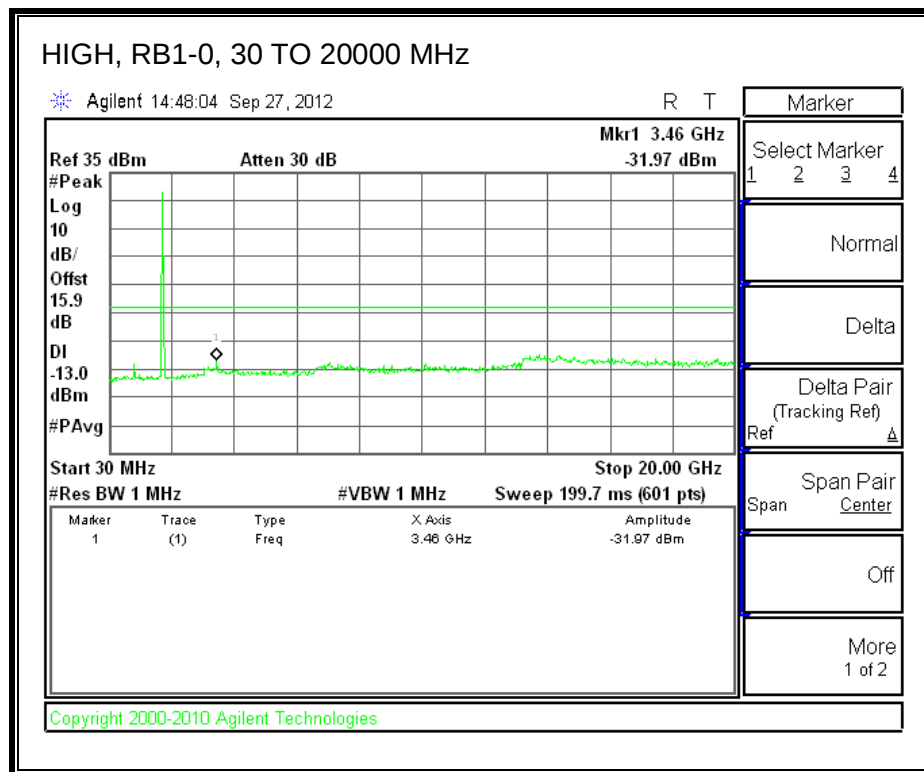
16QAM



Band 4 (20 MHz BANDWIDTH)**QPSK**

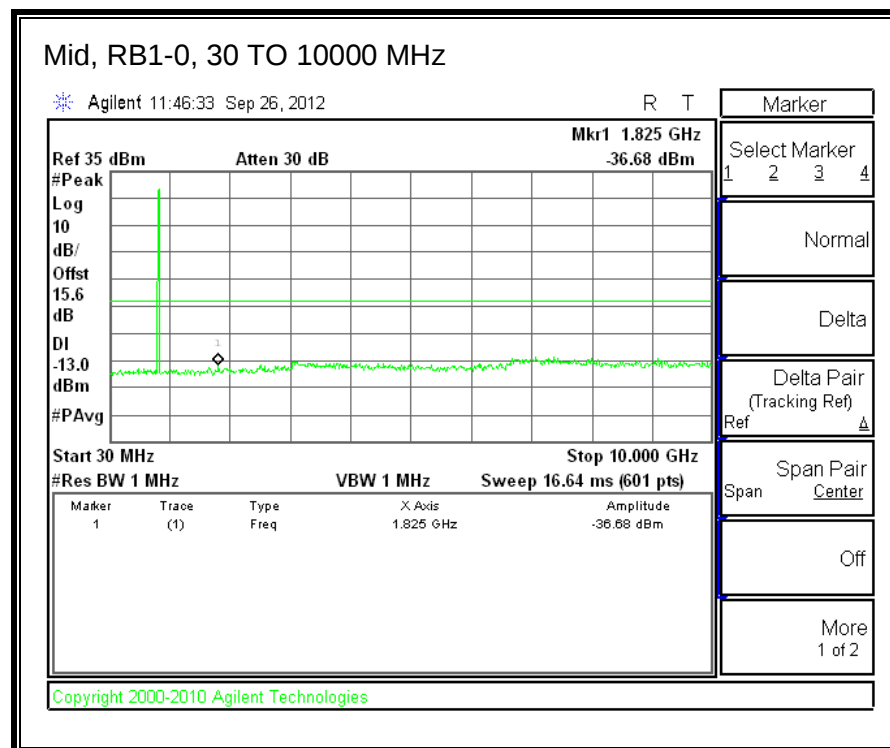
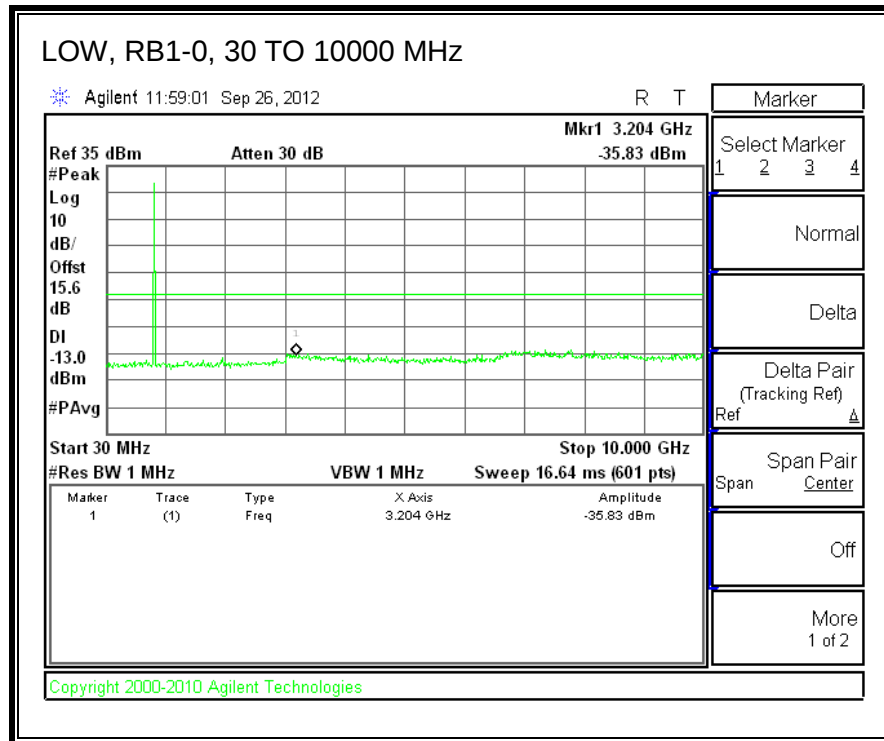


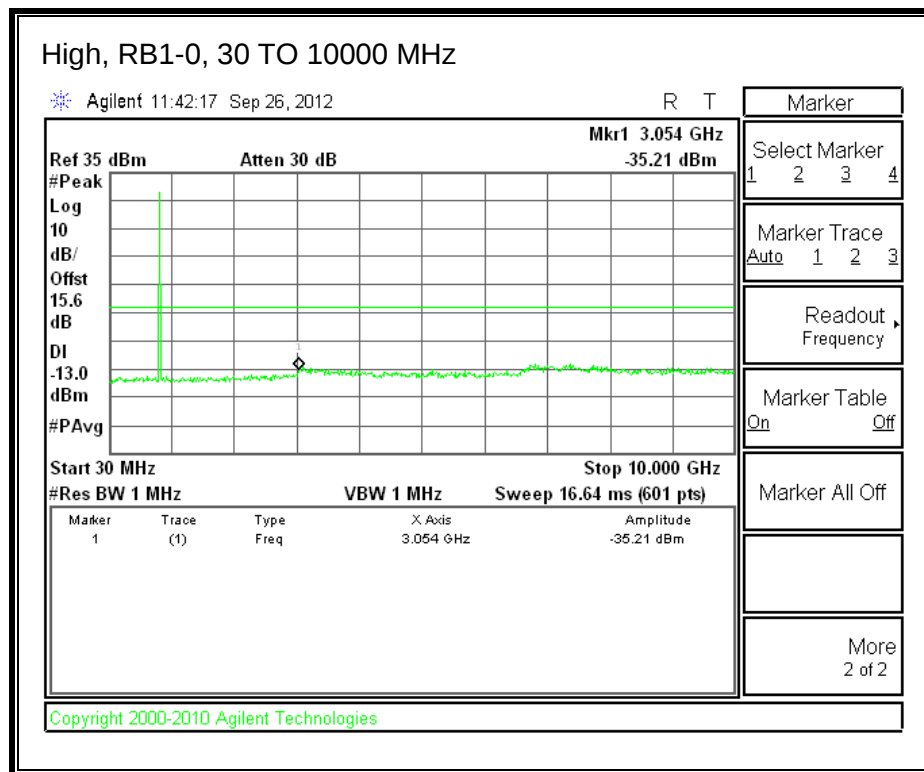
16QAM

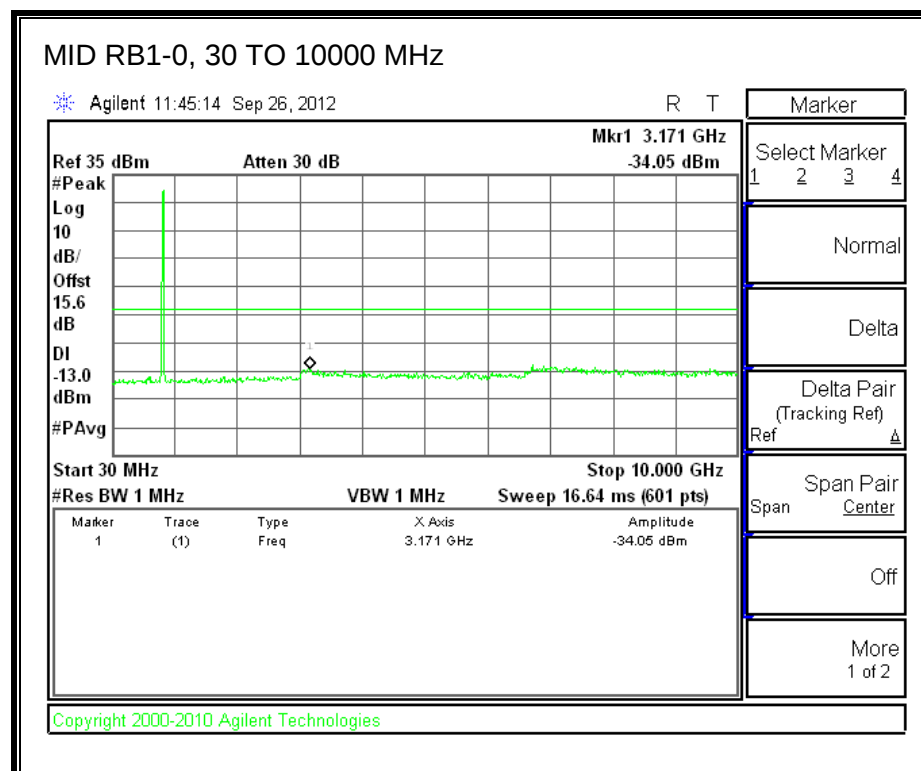
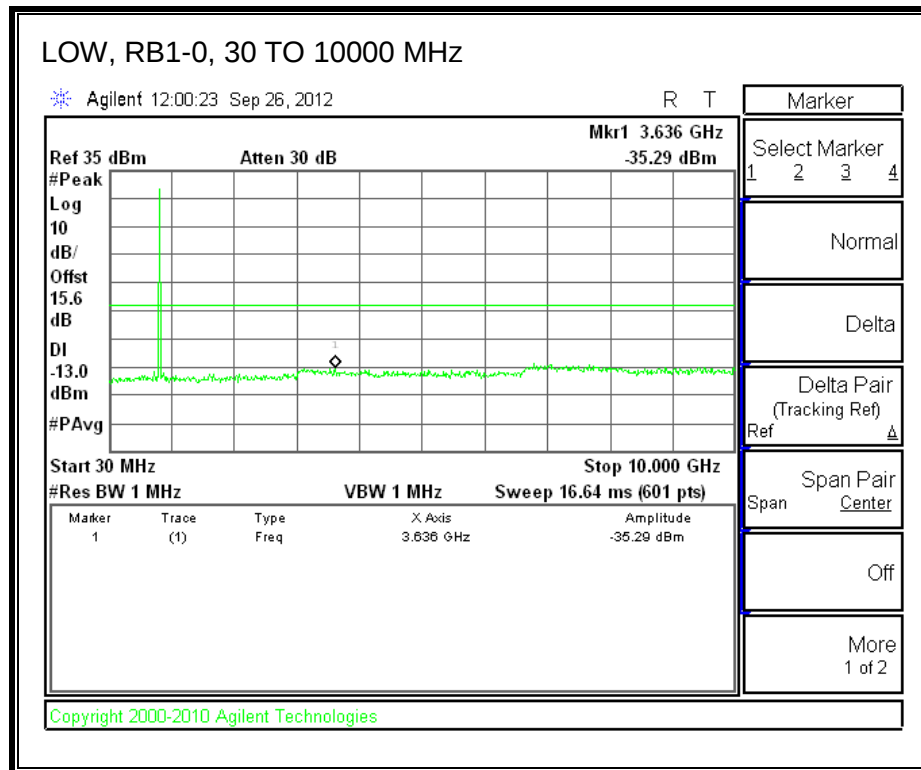


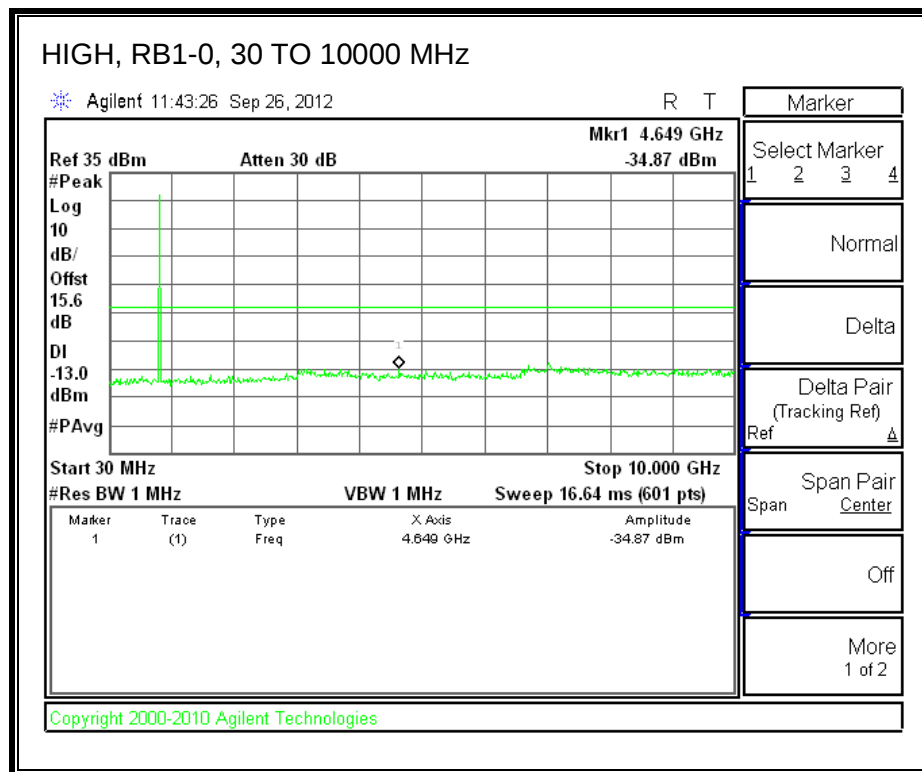
8.3.5. LTE BAND 5

QPSK (1.4 MHz BANDWIDTH)





16QAM



Band 5 (3 MHz BANDWIDTH)**QPSK**