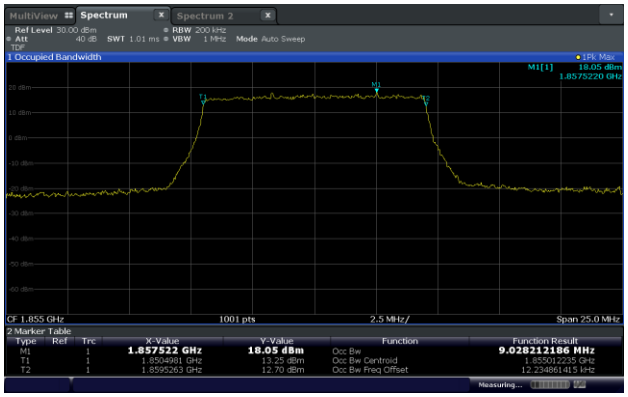
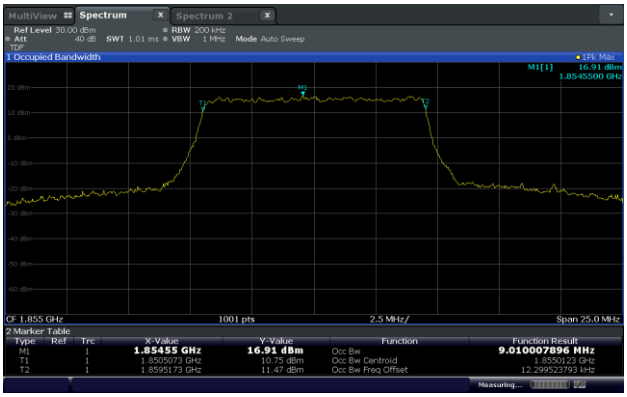
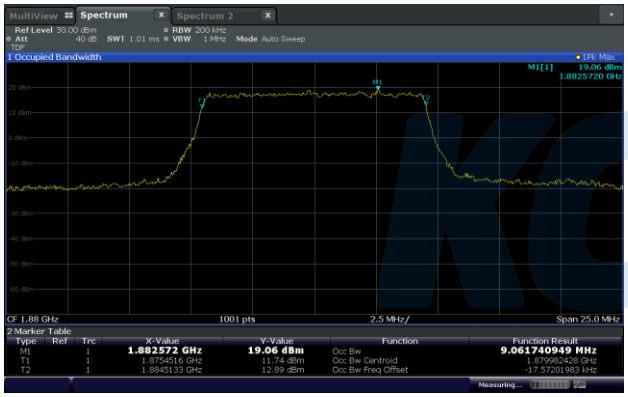
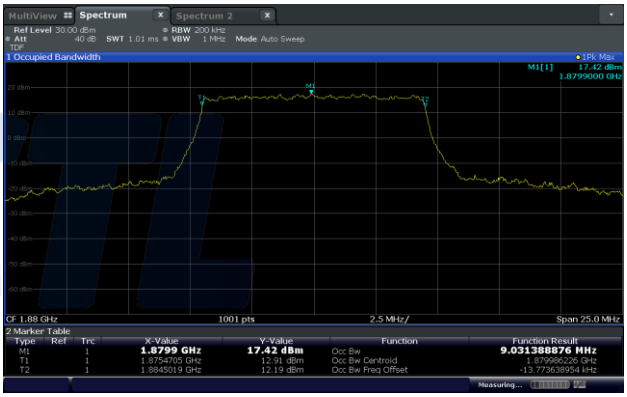
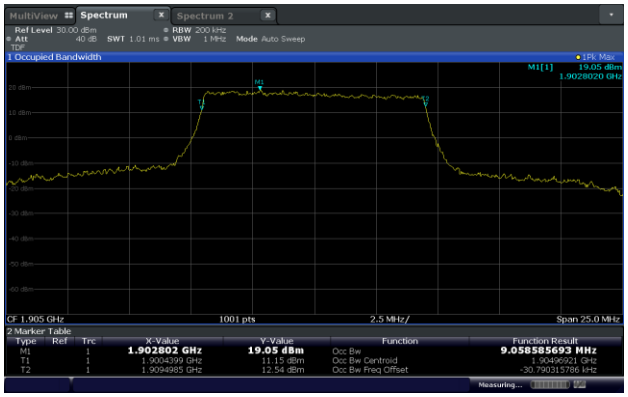
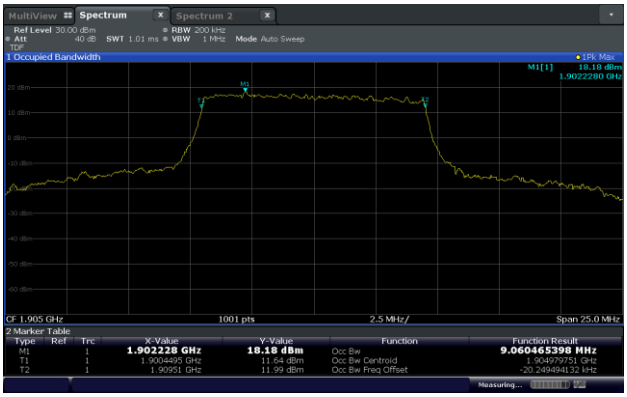
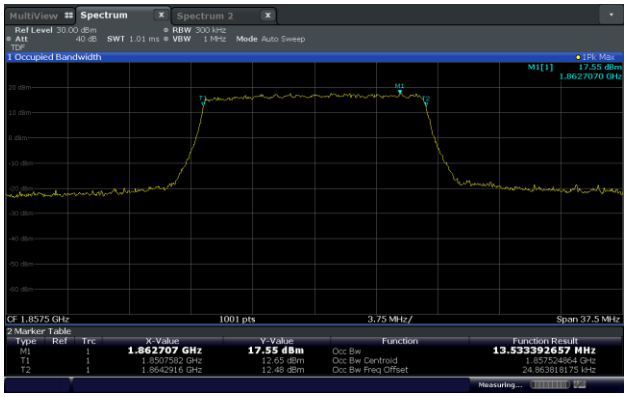
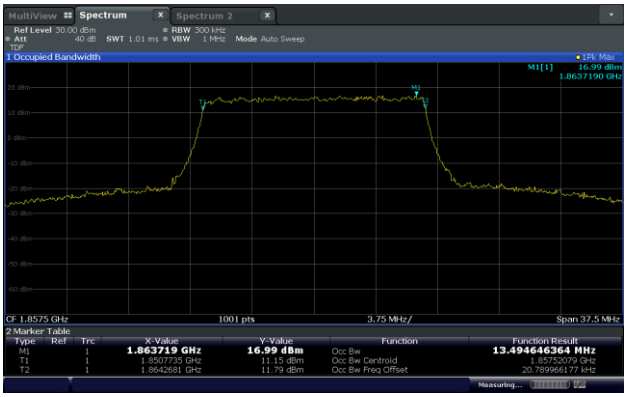
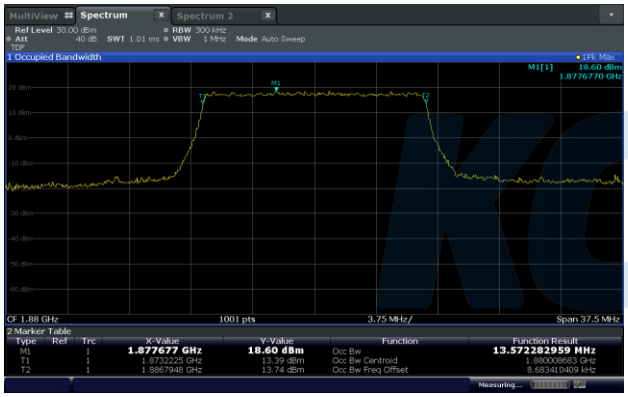
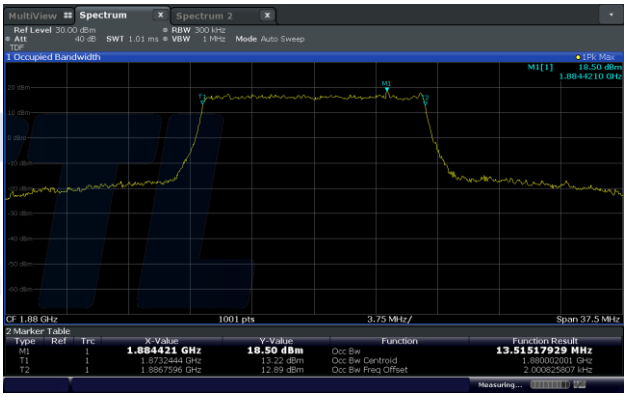
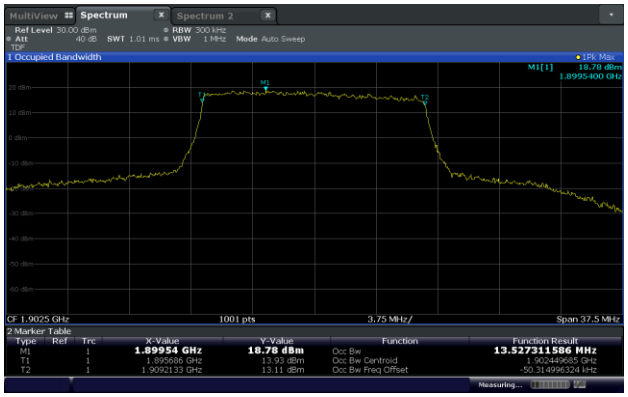
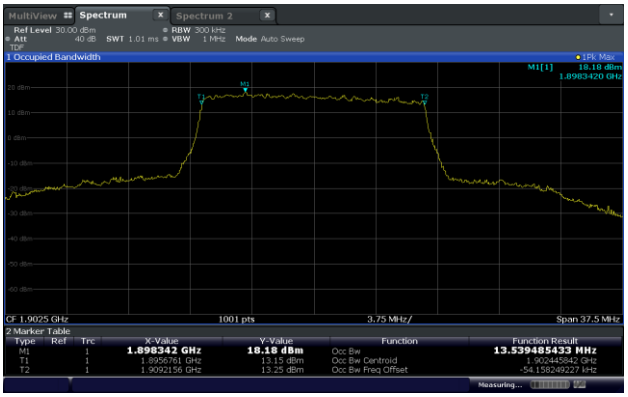
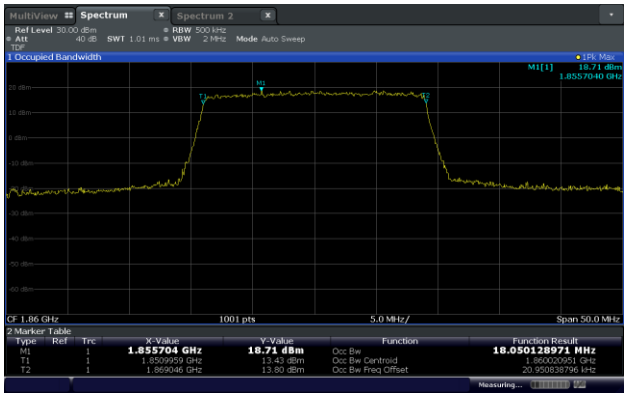
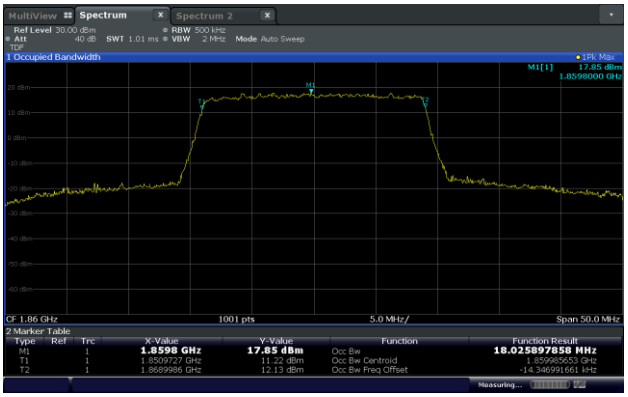
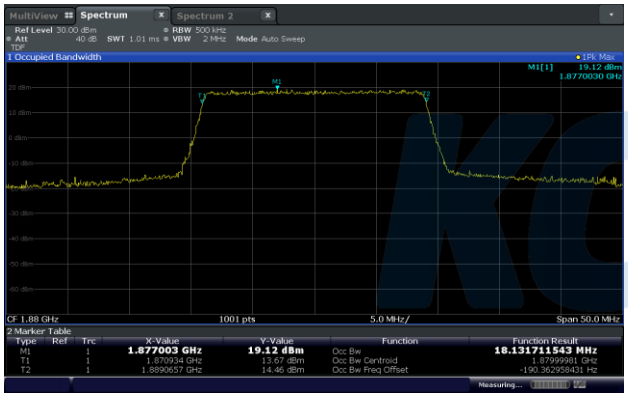
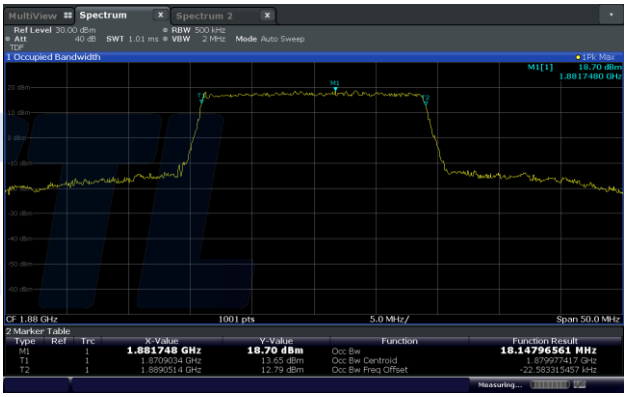
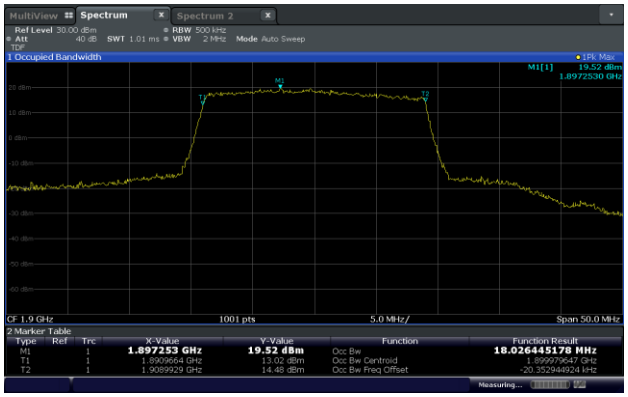
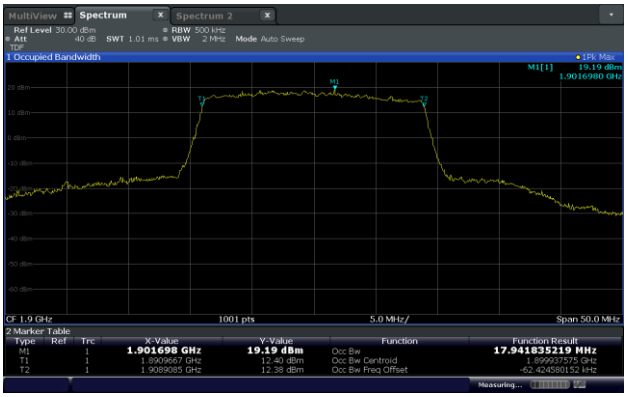
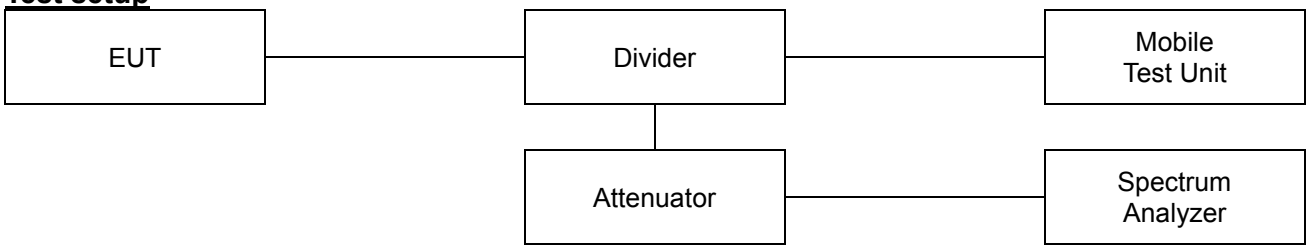
10M BW / QPSK / Low ch.	10M BW / 16QAM / Low ch.
	
10M BW / QPSK / Mid ch.	**10M BW / 16QAM / Mid ch.**
	
10M BW / QPSK / High ch.	**10M BW / 16QAM / High ch.**
	

15M BW / QPSK / Low ch.	15M BW / 16QAM / Low ch.
	
15M BW / QPSK / Mid ch.	**15M BW / 16QAM / Mid ch.**
	
15M BW / QPSK / High ch.	**15M BW / 16QAM / High ch.**
	

20M BW / QPSK / Low ch.	20M BW / 16QAM / Low ch.
	
20M BW / QPSK / Mid ch.	**20M BW / 16QAM / Mid ch.**
	
20M BW / QPSK / High ch.	**20M BW / 16QAM / High ch.**
	

7.2. Spurious Emissions at Antenna Terminal

Test setup



Limit

According to §22.917(a), §24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log($P_{[Watts]}$) ㏈.

According to §27.53(g), for operations in the 600 ㎒ band and the 698~746 ㎒ band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10log($P_{[Watts]}$) ㏈.

According to §27.53(h), except as otherwise specified below, for operations in the 1695~1710 ㎒, 1710 ~ 1755 ㎒, 1755 ~ 1780 ㎒, 1915~1920 ㎒, 1995~2000 ㎒, 2000~2020 ㎒, 2110~2155 ㎒, 2155~2180 ㎒, and 2180~2200 bands, the power of an emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log($P_{[Watts]}$) ㏈.

Test procedure

971168 D01 v03r01 - Section 6
ANSI 63.26-2015 – Section 5.7

Test settings

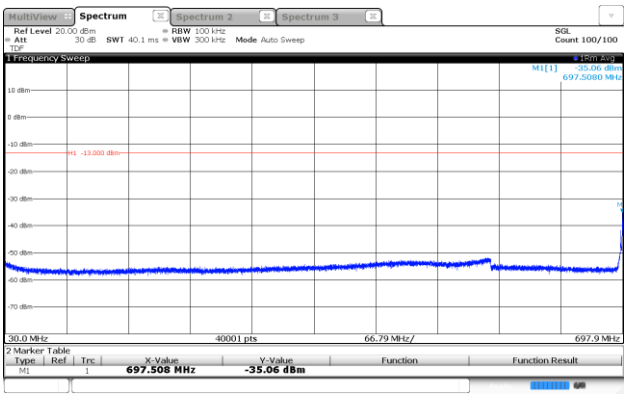
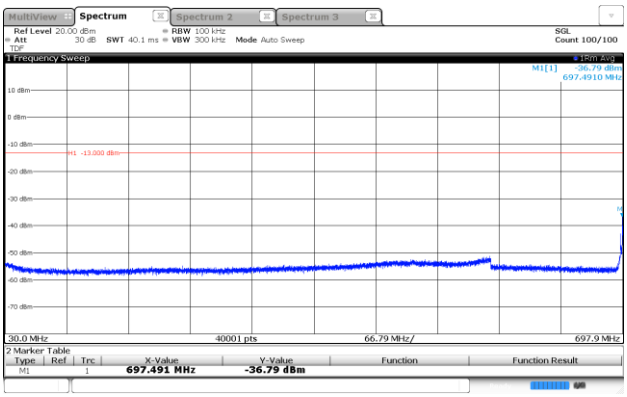
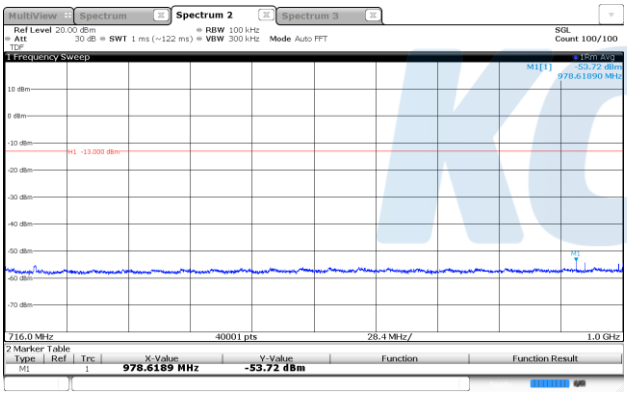
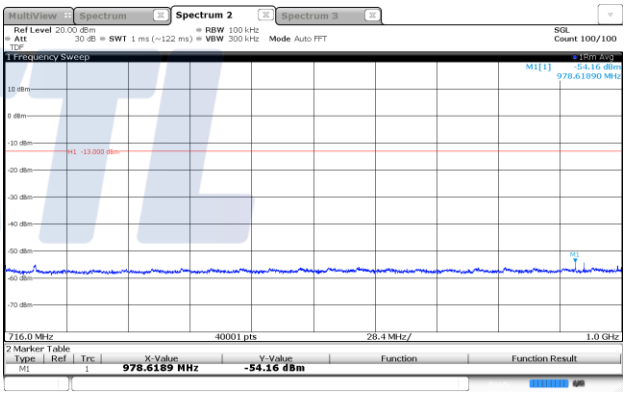
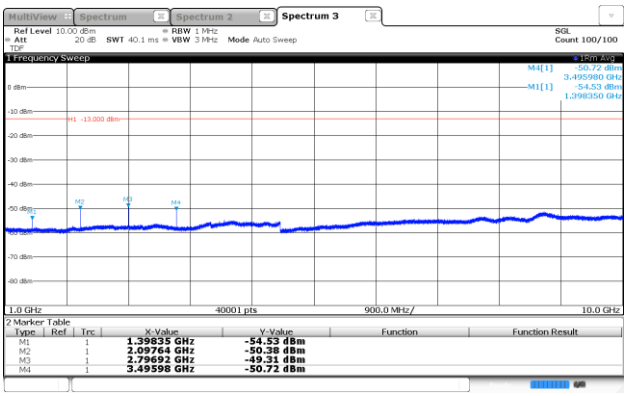
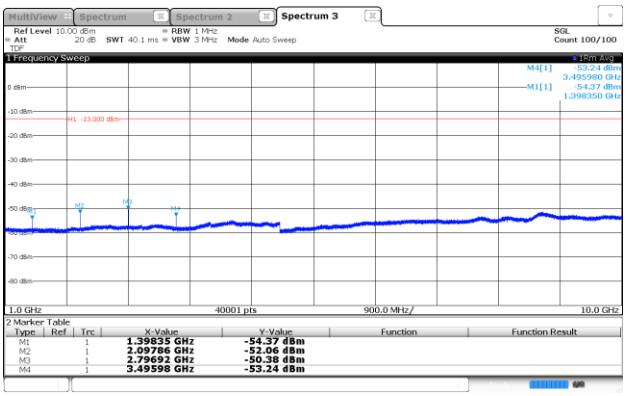
1) Start frequency was set to 30 ㎒ and stop frequency was set to at least 10th the fundamental frequency.
2) Detector = RMS
3) Sweep time = auto couple.
4) Trace mode = trace average
5) Allow trace to fully stabilize.
6) Please see test notes below RBW and VBW settings.

Notes:

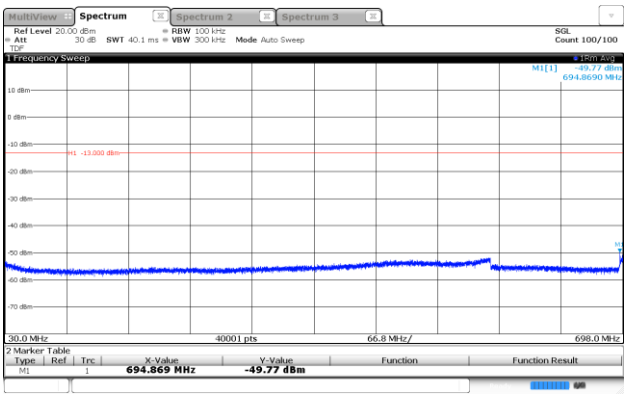
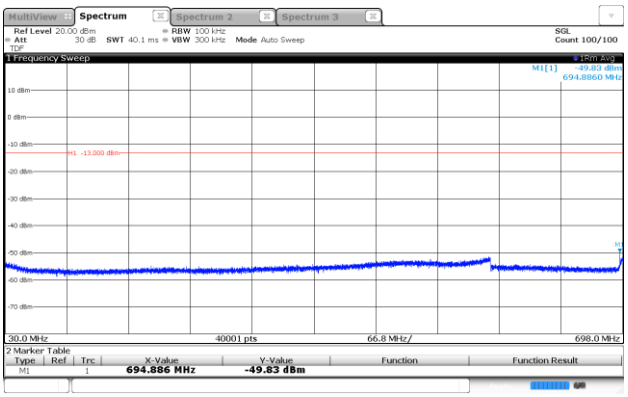
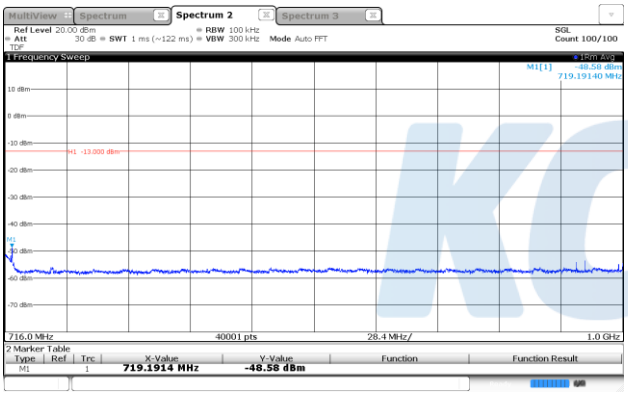
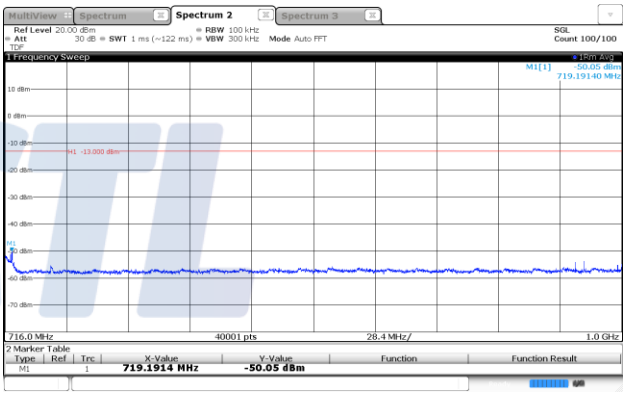
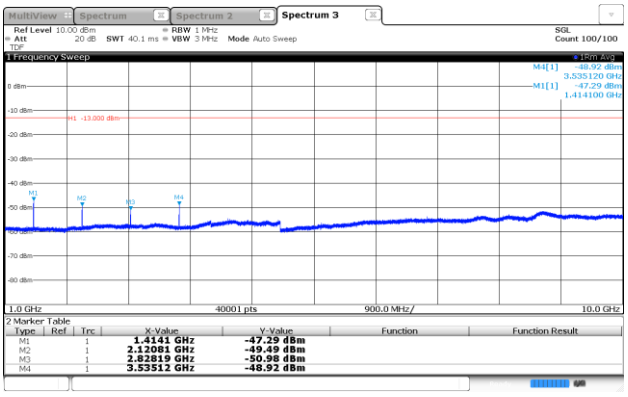
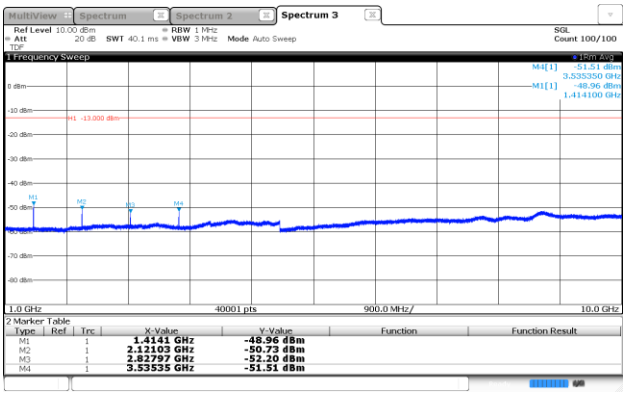
1. Per 22.917(b),24.238(b),27.53(g),(h), compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 ㎑ or greater for frequencies less than 1 ㎓ and 1 ㎒ or greater for frequencies greater than 1 ㎓.
2. All path loss of frequency range was investigated and compensated to spectrum analyzer as TDF function. Please refer to the page 12.

Test results

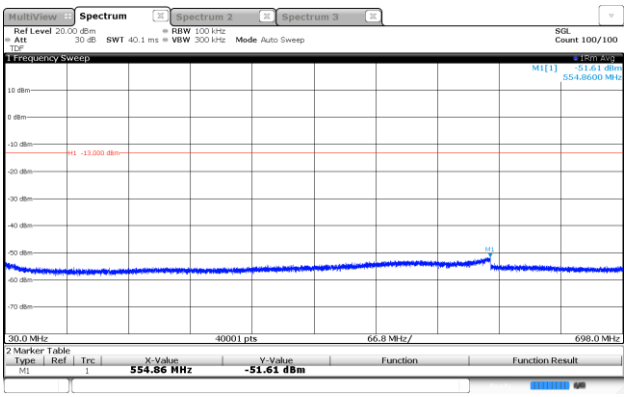
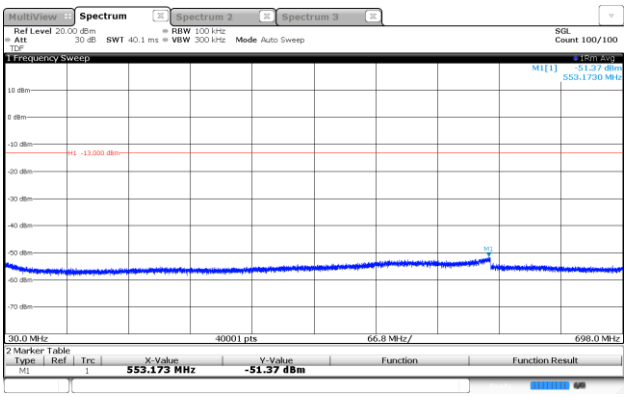
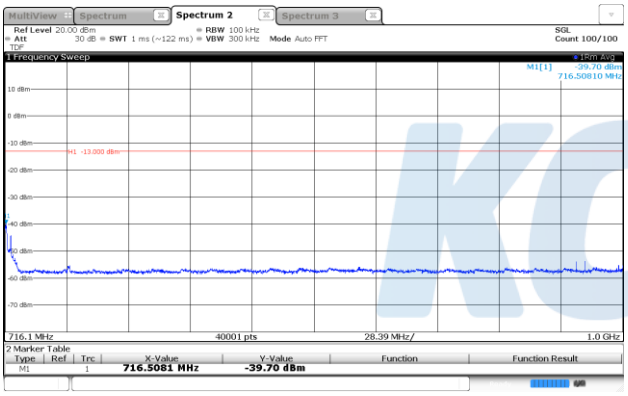
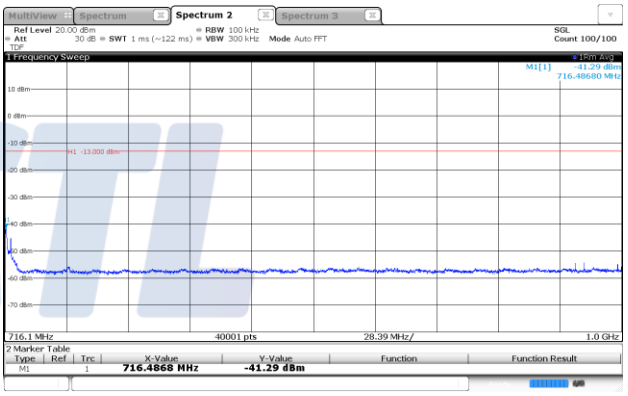
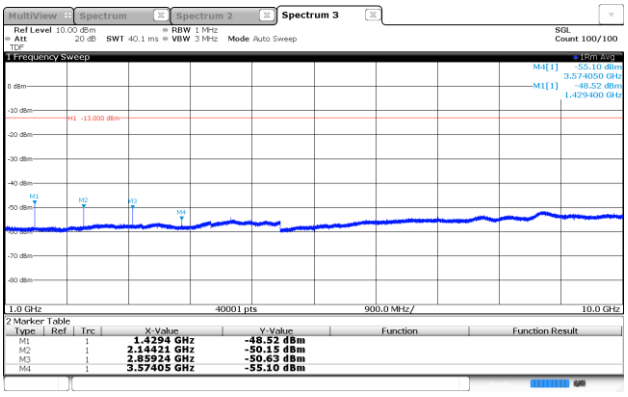
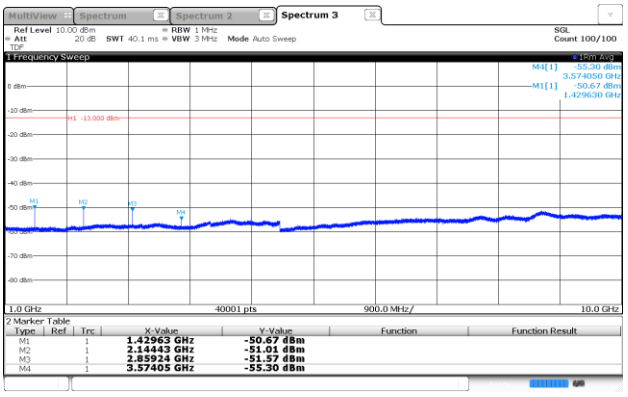
Test mode: LTE Band12

1.4M BW / QPSK / Low ch.	1.4M BW / 16QAM / Low ch.
	
	
	

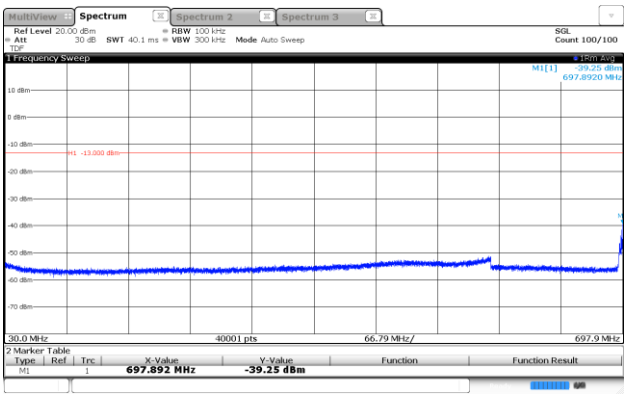
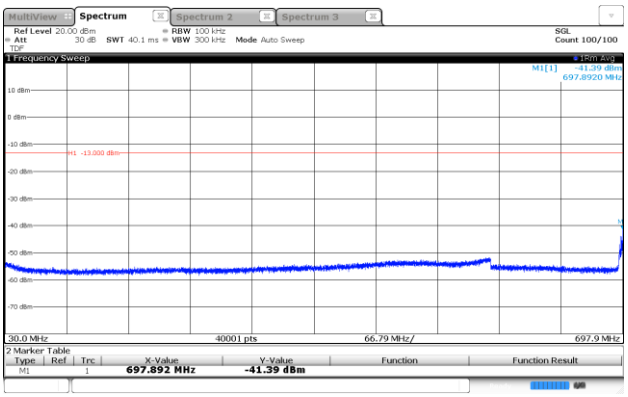
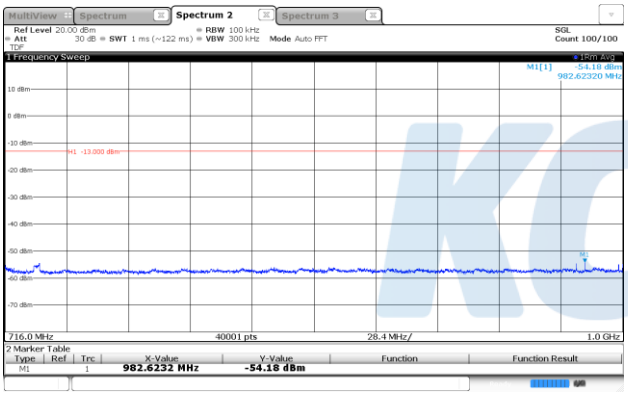
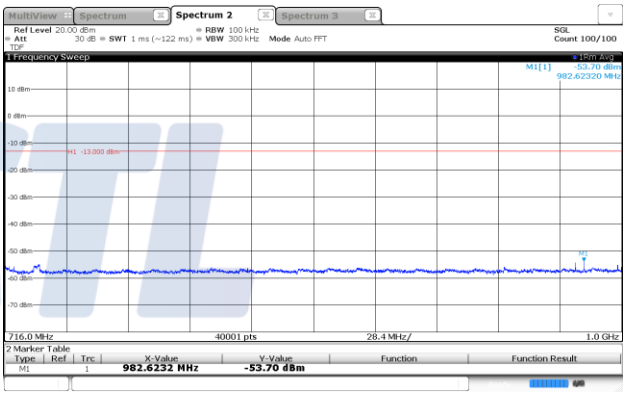
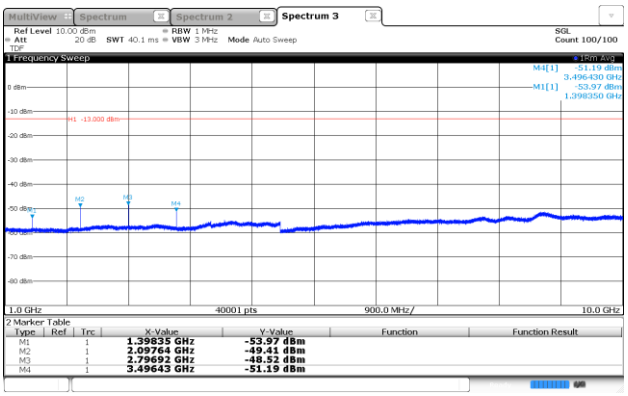
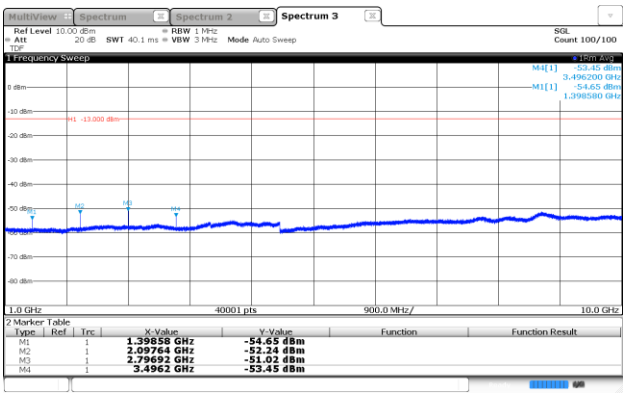
Test mode: LTE Band12

1.4M BW / QPSK / Mid ch.	1.4M BW / 16QAM / Mid ch.
	
	
	

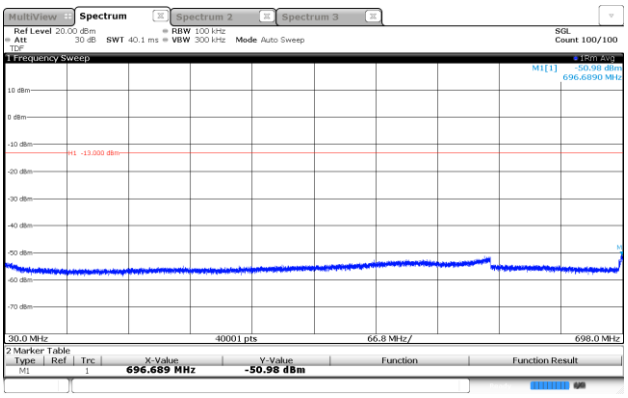
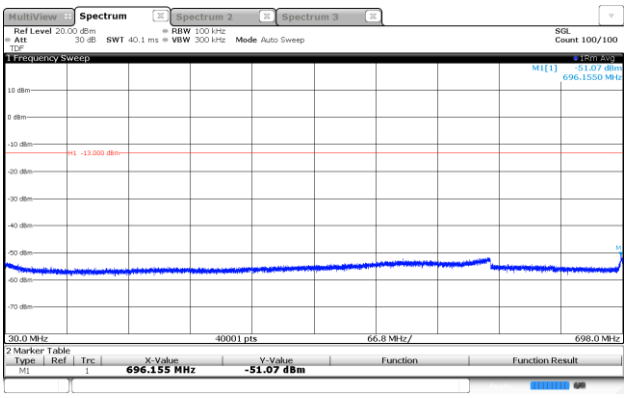
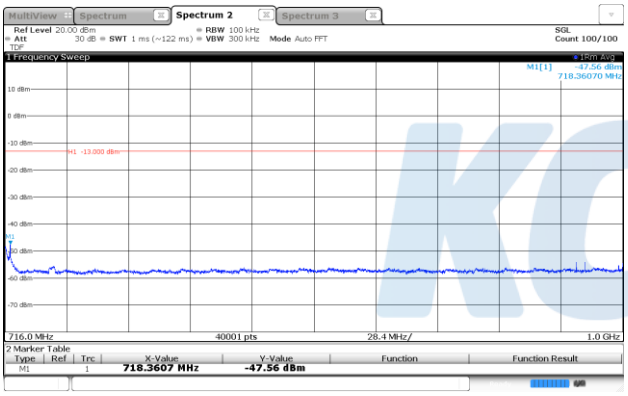
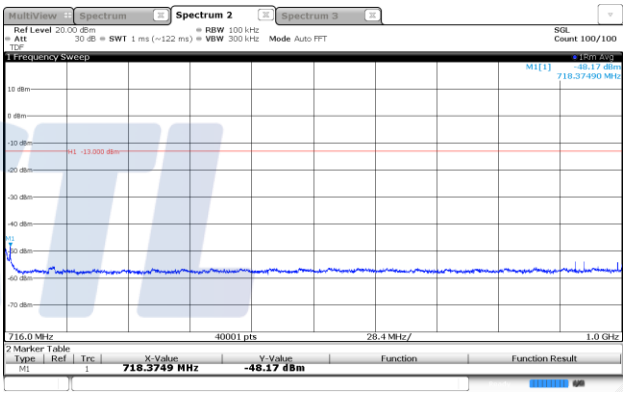
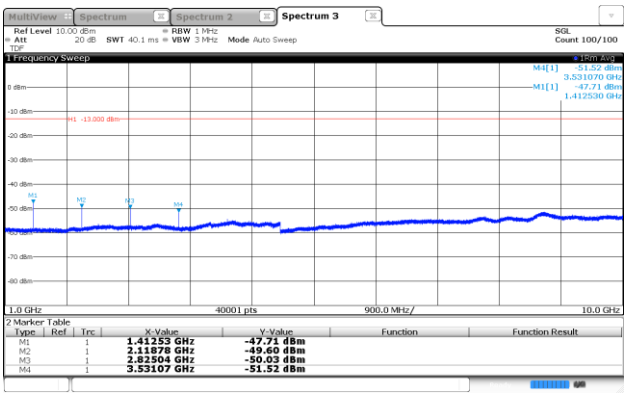
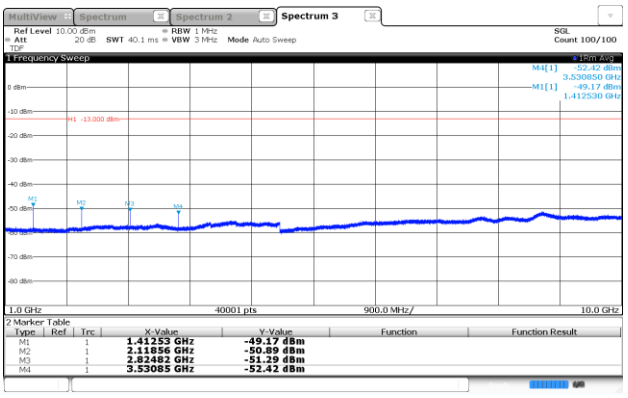
Test mode: LTE Band12

1.4M BW / QPSK / High ch.	1.4M BW / 16QAM / High ch.
	
	
	

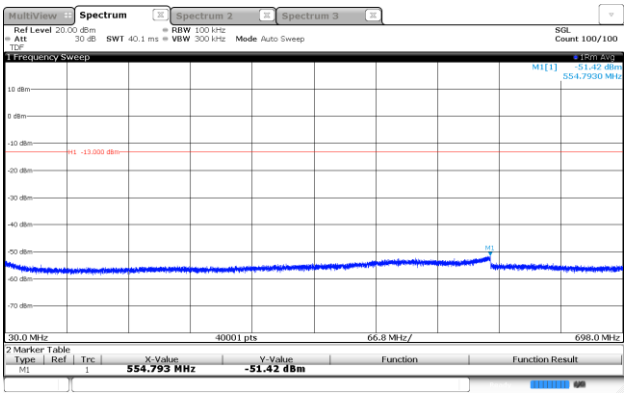
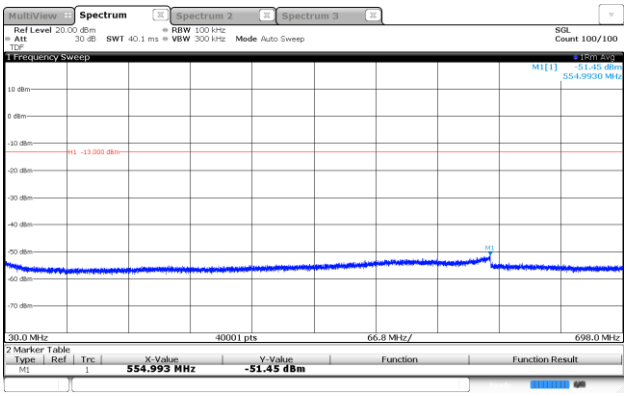
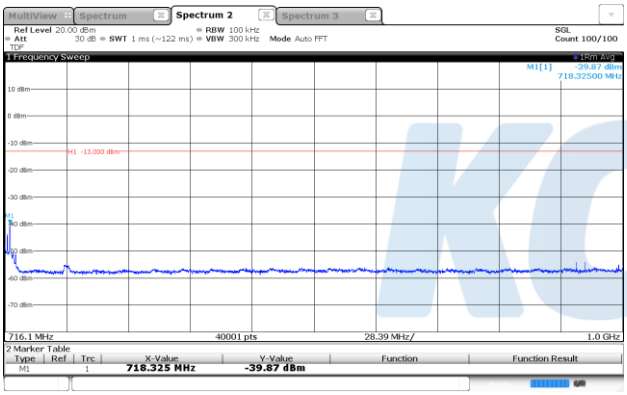
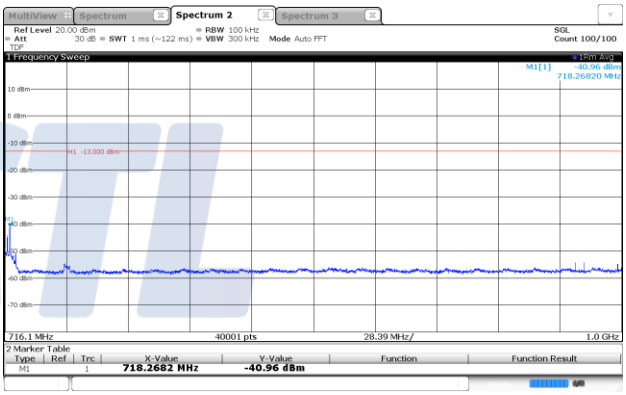
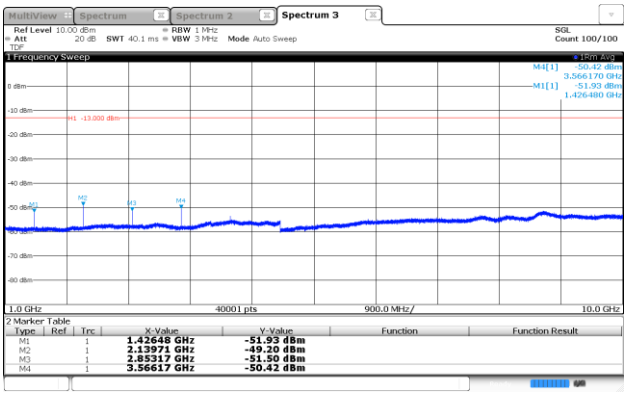
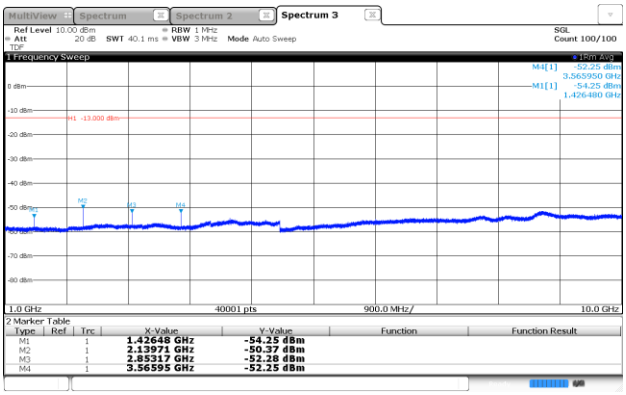
Test mode: LTE Band12

3M BW / QPSK / Low ch.	3M BW / 16QAM / Low ch.
	
	
	

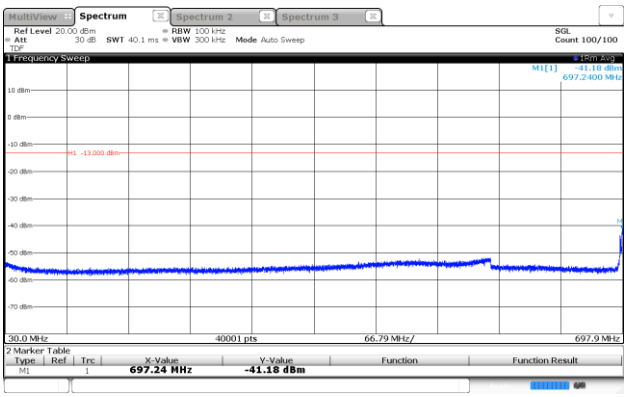
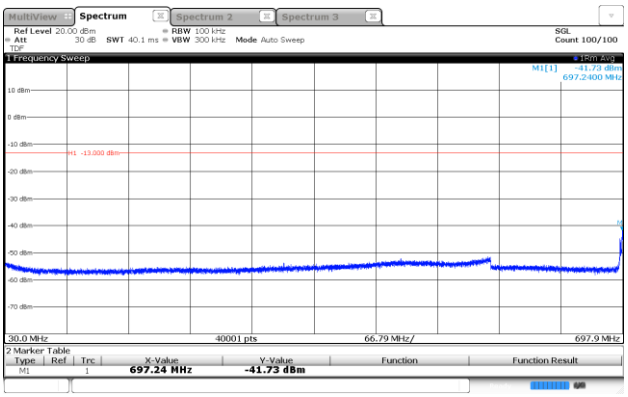
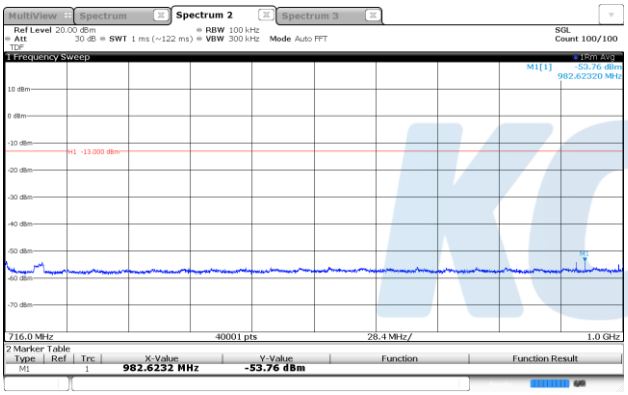
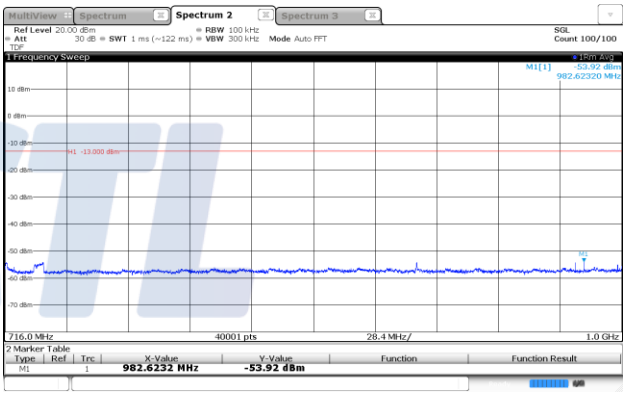
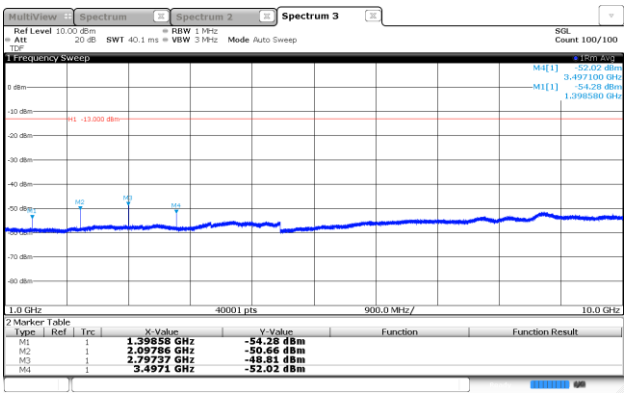
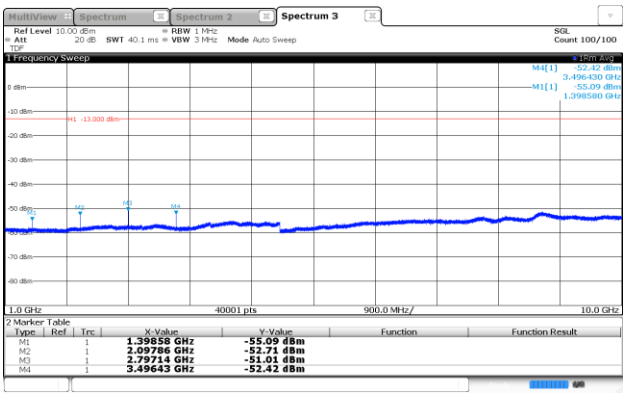
Test mode: LTE Band12

3M BW / QPSK / Mid ch.	3M BW / 16QAM / Mid ch.
	
	
	

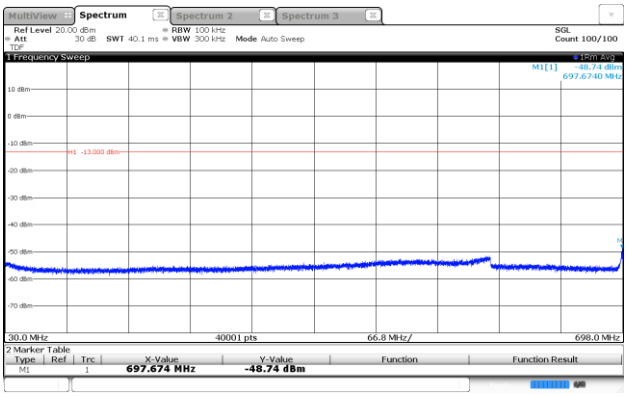
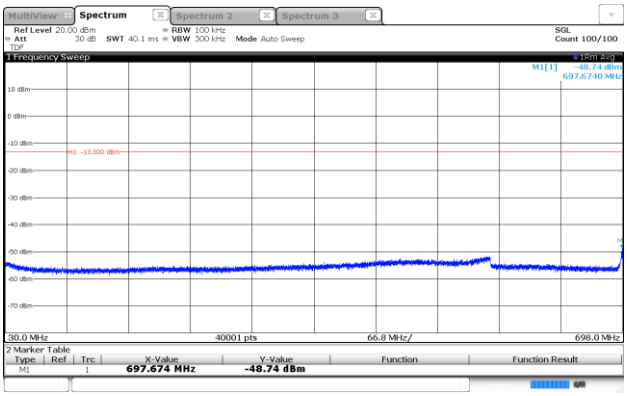
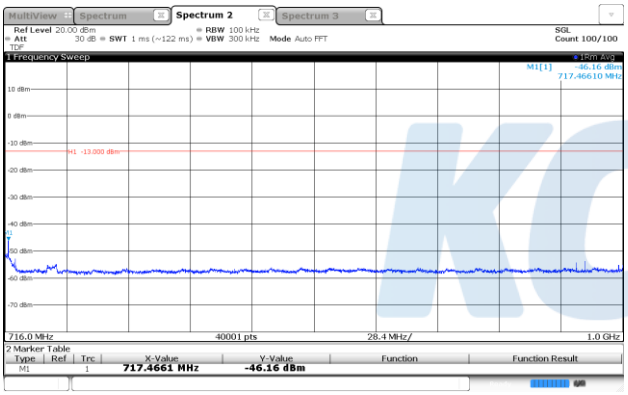
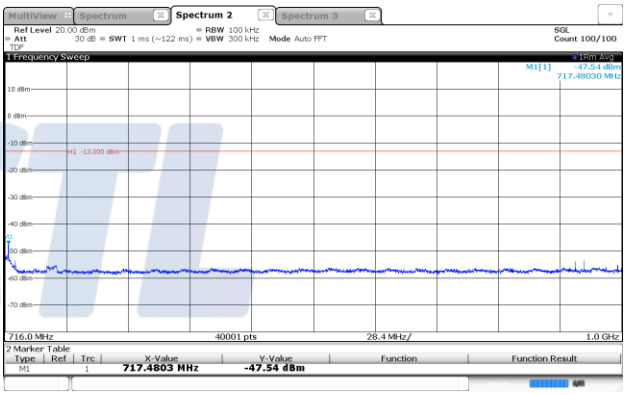
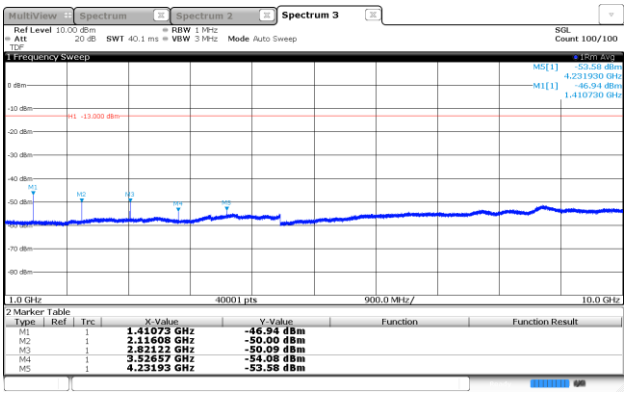
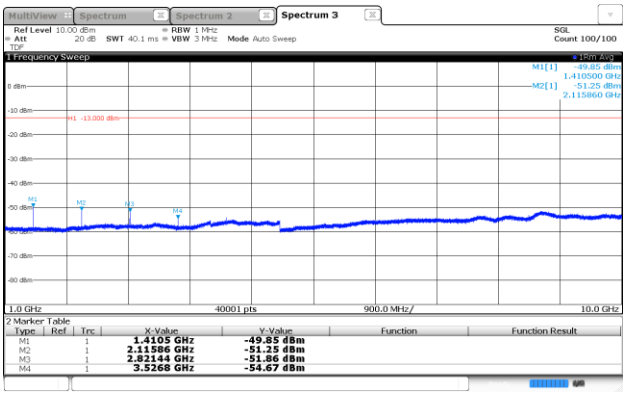
Test mode: LTE Band12

3M BW / QPSK / High ch.	3M BW / 16QAM / High ch.
	
	
	

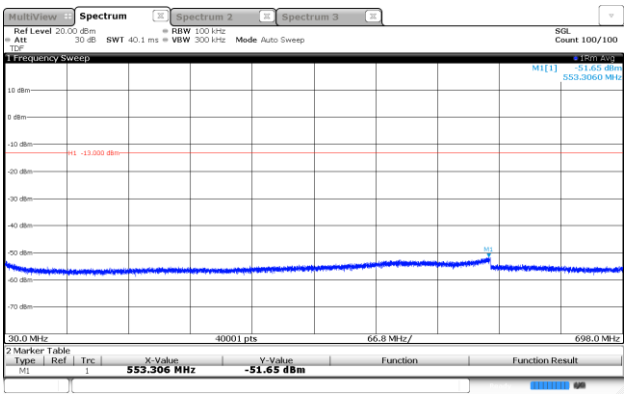
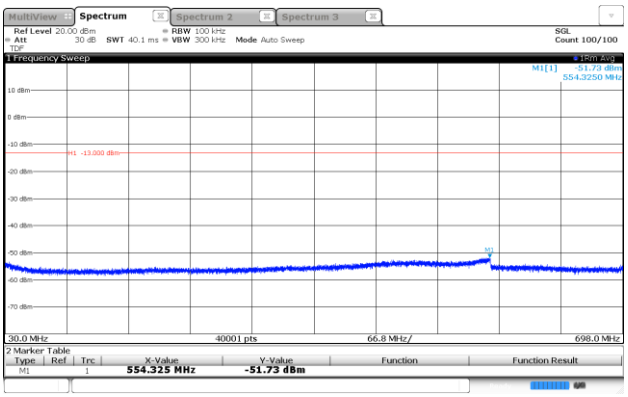
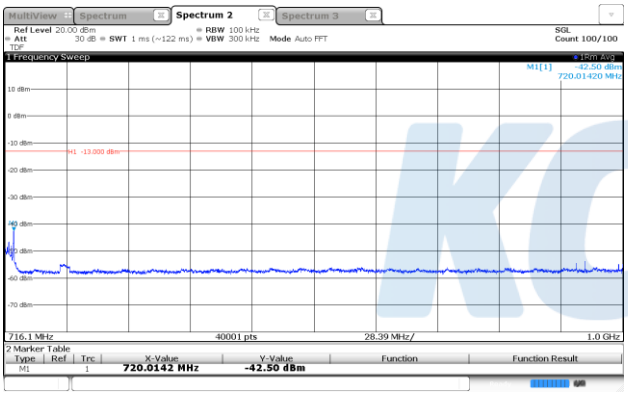
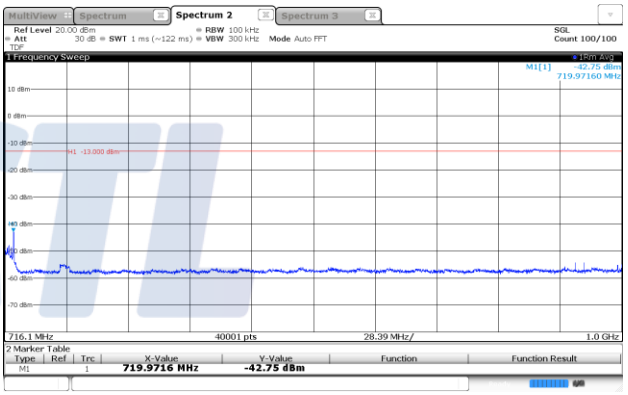
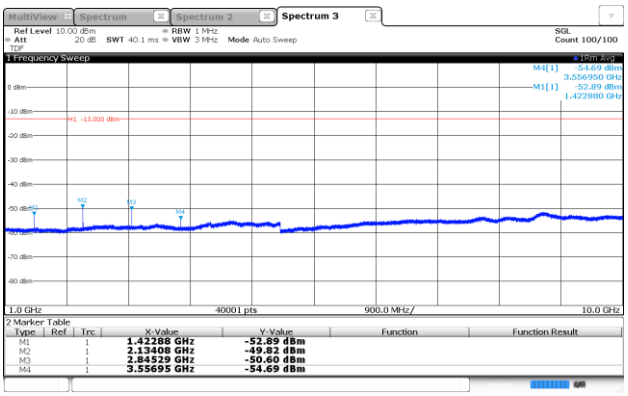
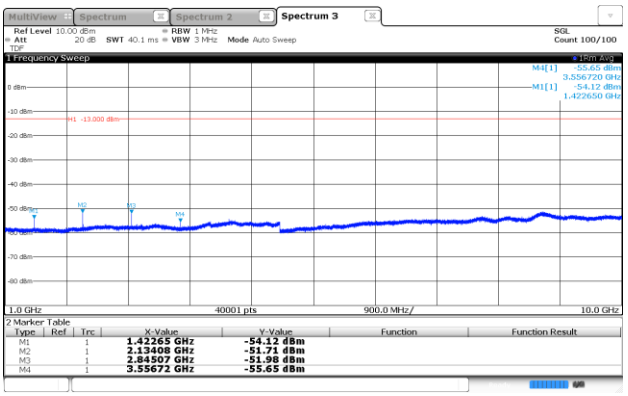
Test mode: LTE Band12/17

5M BW / QPSK / Low ch.	5M BW / 16QAM / Low ch.
	
	
	

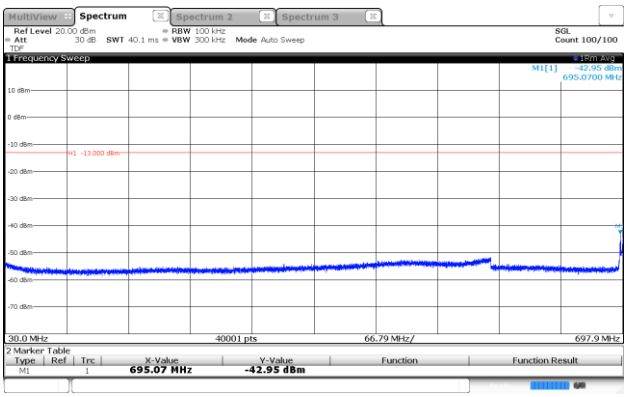
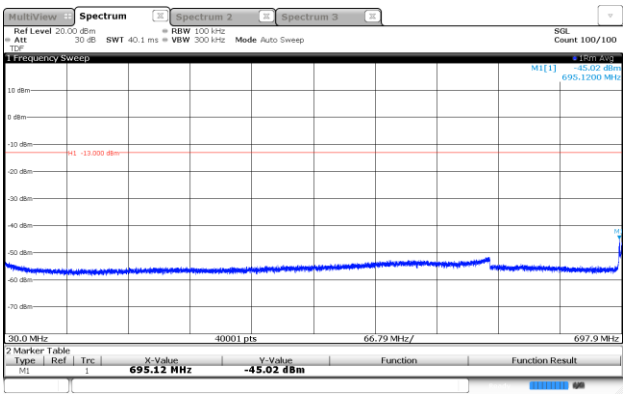
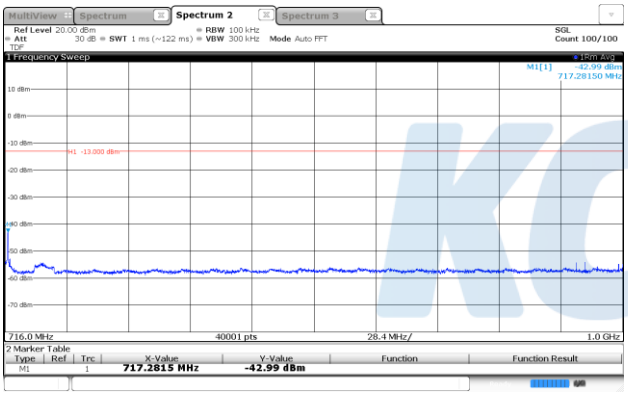
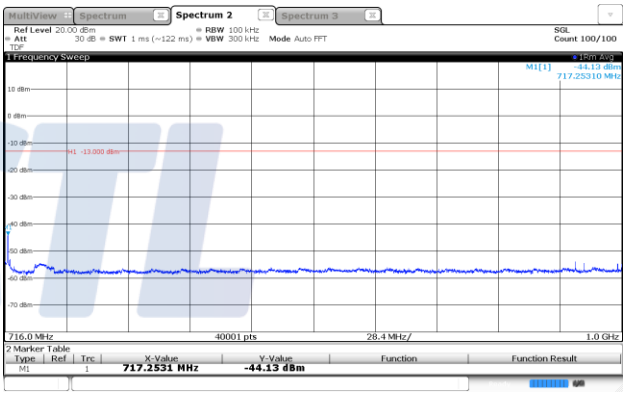
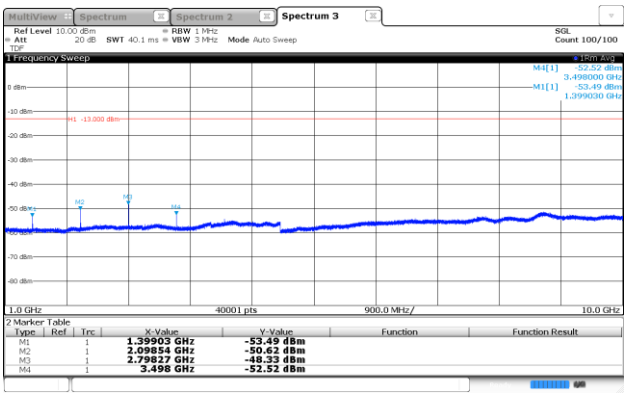
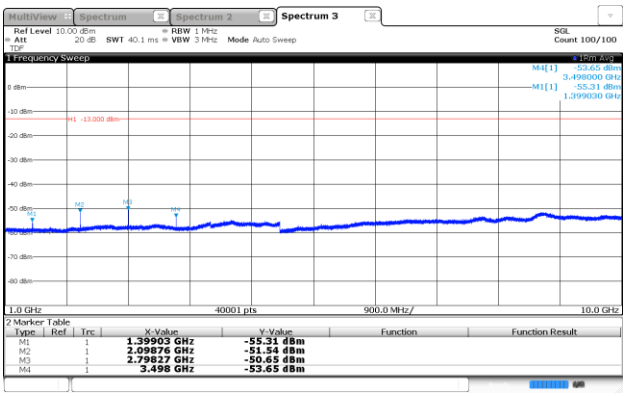
Test mode: LTE Band12/17

5M BW / QPSK / Mid ch.	5M BW / 16QAM / Mid ch.
	
	
	

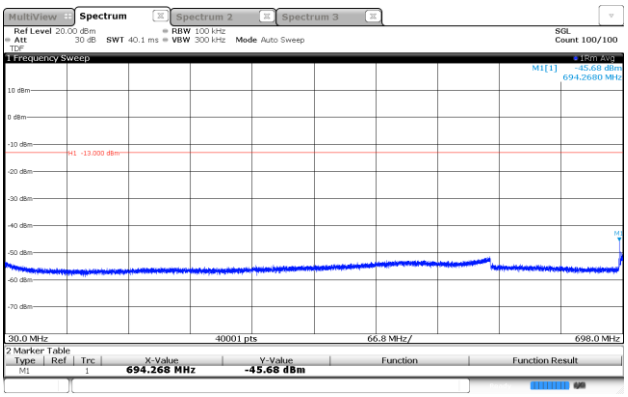
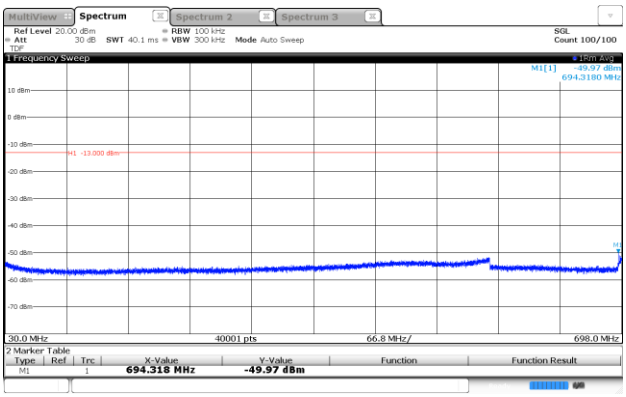
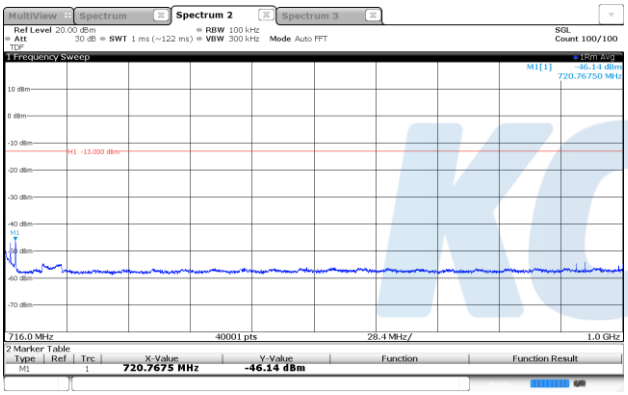
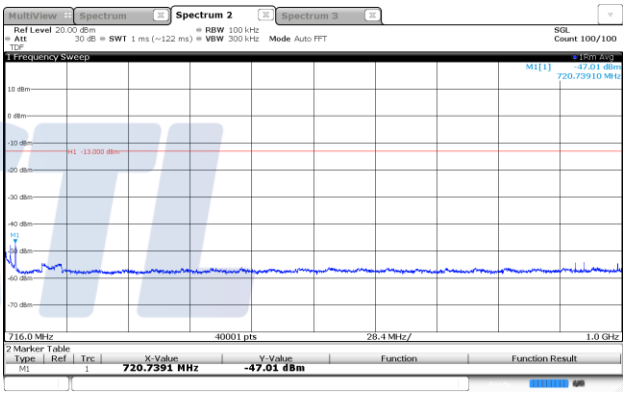
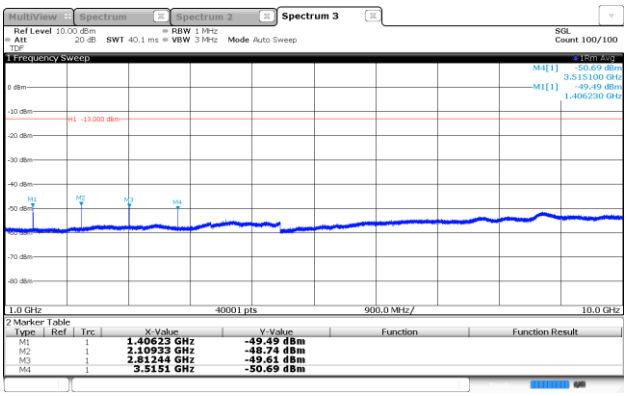
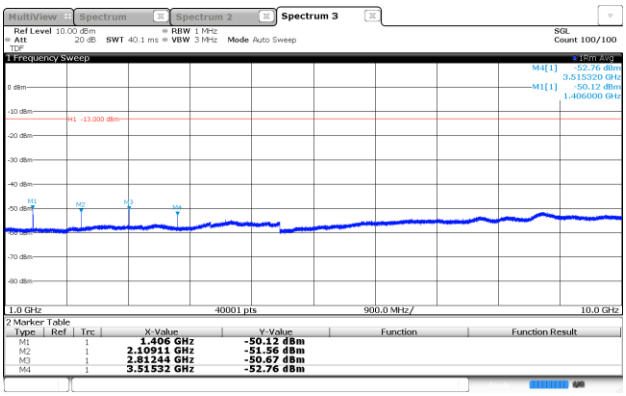
Test mode: LTE Band12/17

5M BW / QPSK / High ch.	5M BW / 16QAM / High ch.
	
	
	

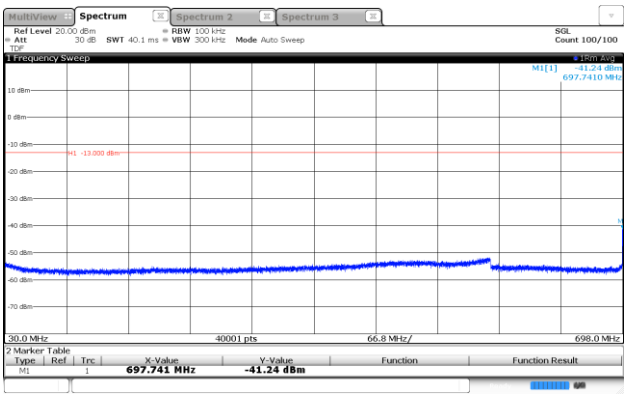
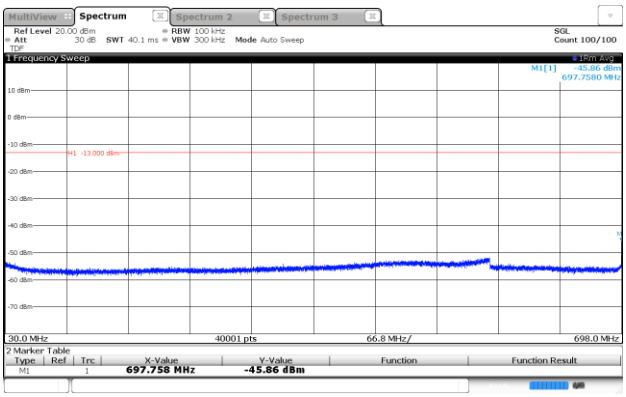
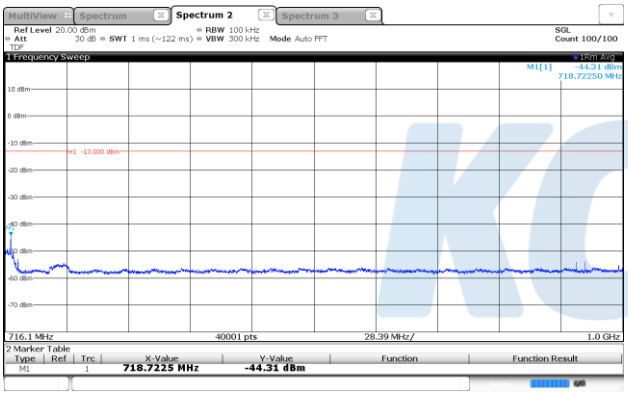
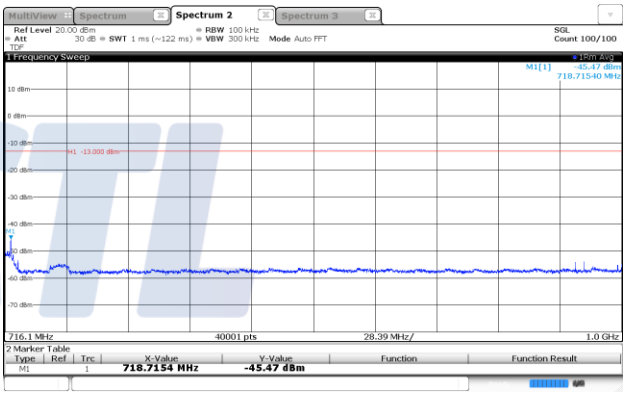
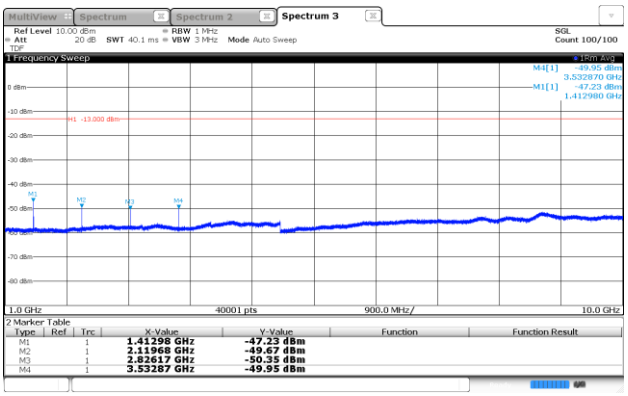
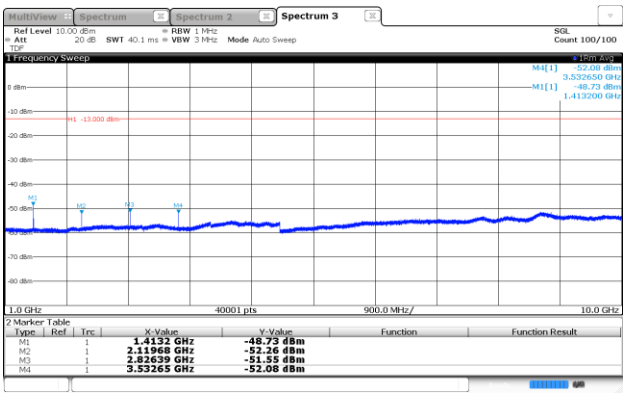
Test mode: LTE Band12/17

10M BW / QPSK / Low ch.	10M BW / 16QAM / Low ch.
	
	
	

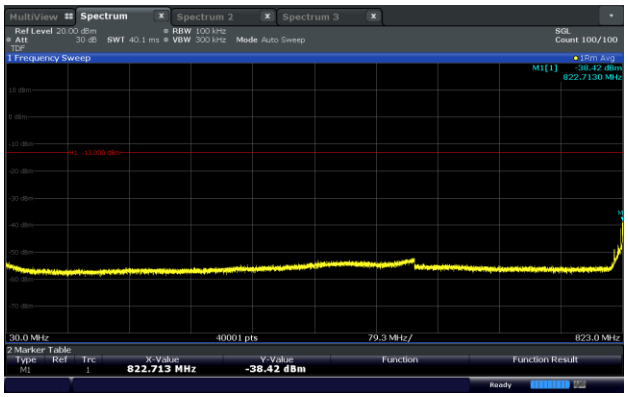
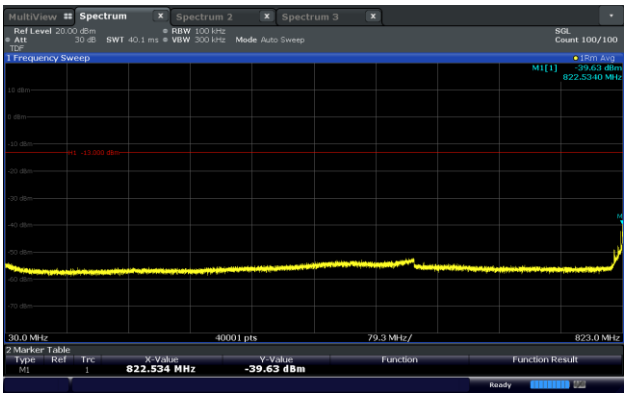
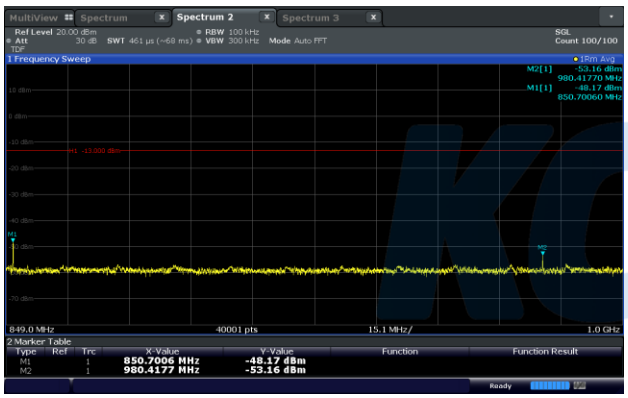
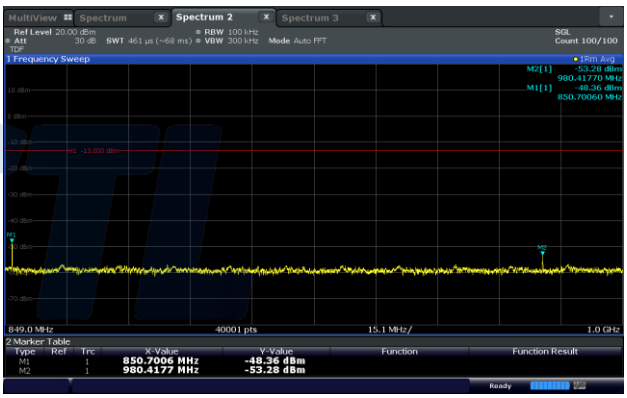
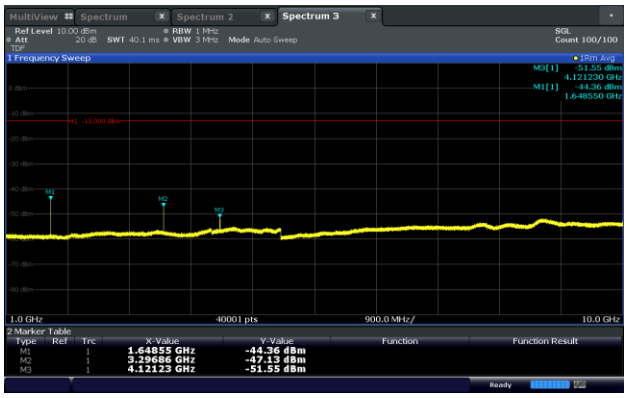
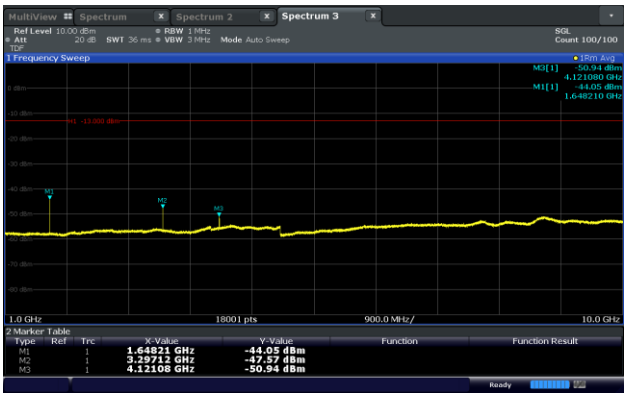
Test mode: LTE Band12/17

10M BW / QPSK / Mid ch.	10M BW / 16QAM / Mid ch.
	
	
	

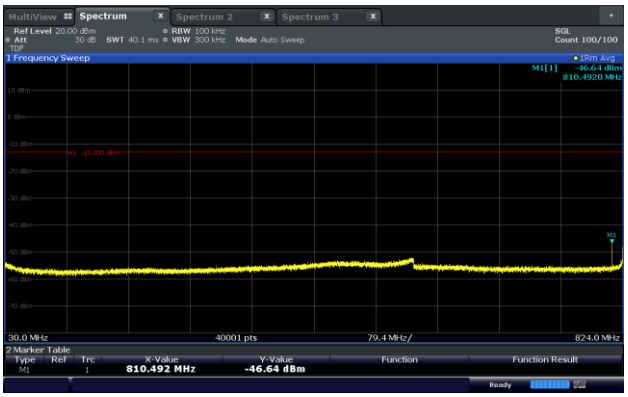
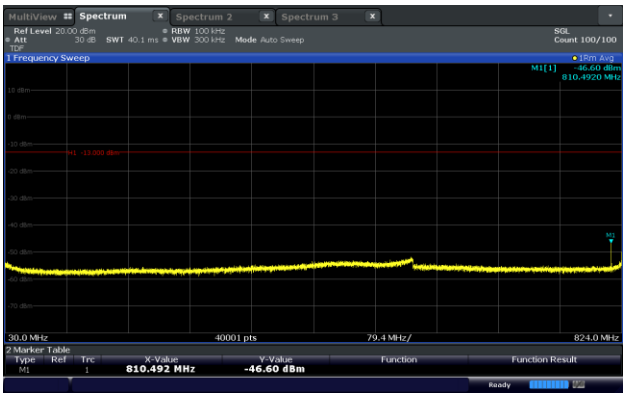
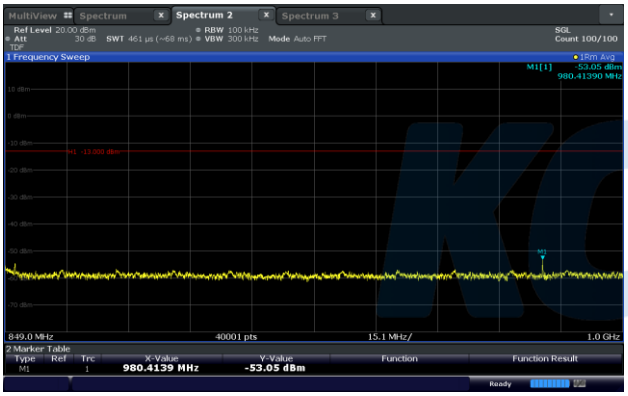
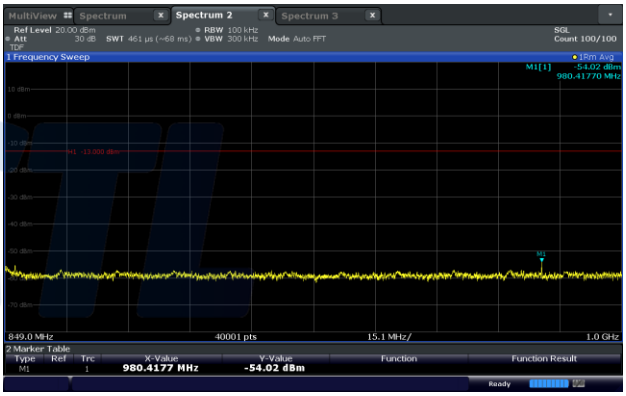
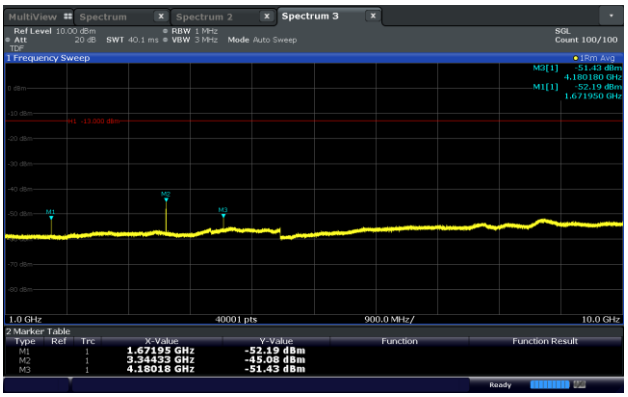
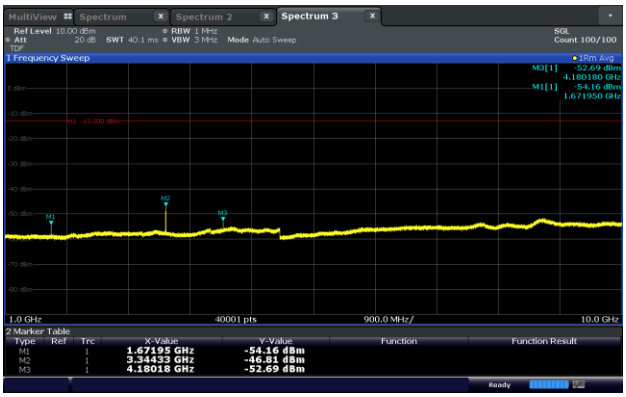
Test mode: LTE Band12/17

10M BW / QPSK / High ch.	10M BW / 16QAM / High ch.
	
	
	

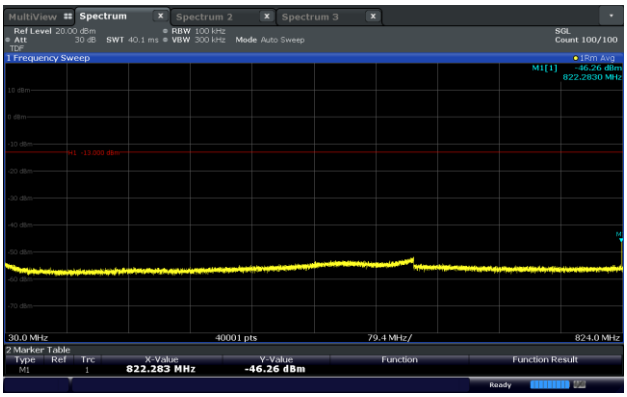
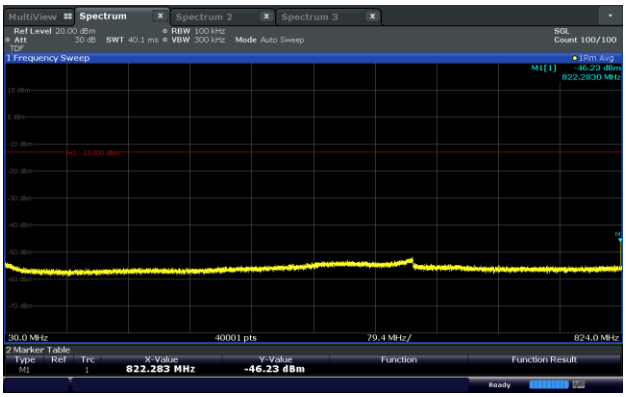
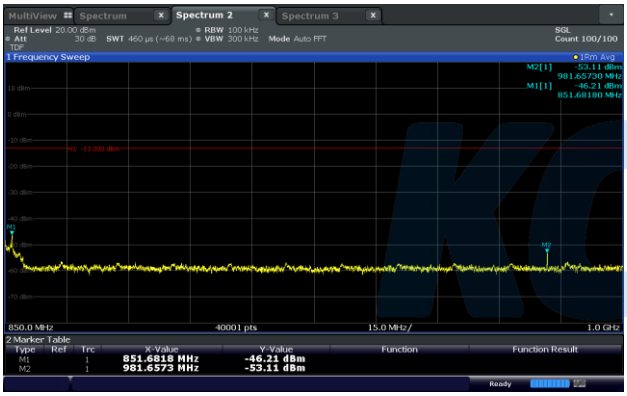
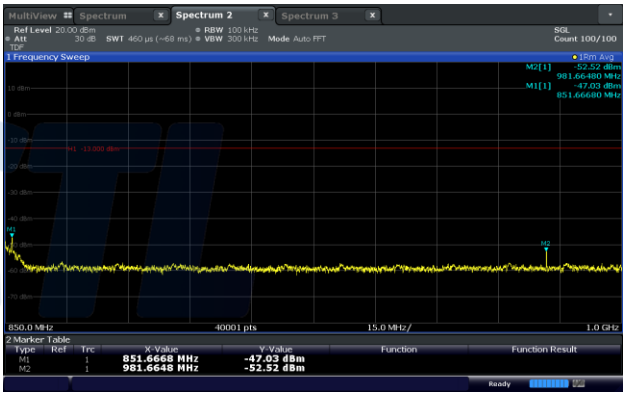
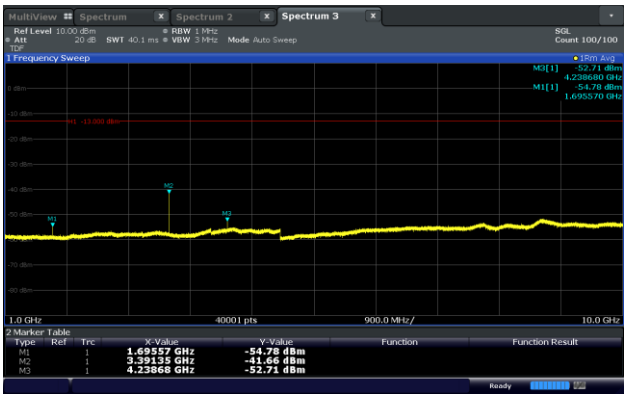
Test mode: LTE Band5

1.4M BW / QPSK / Low ch.	1.4M BW / 16QAM / Low ch.
	
	
	

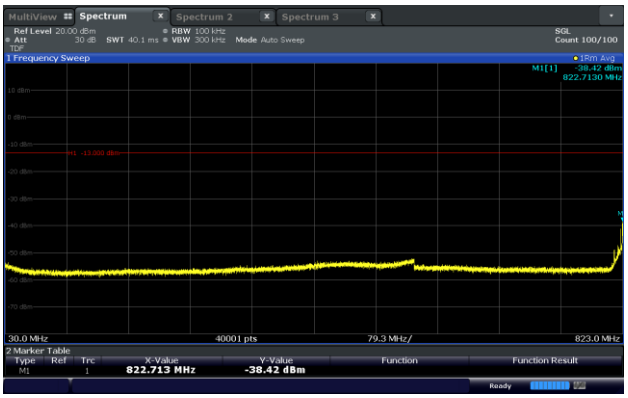
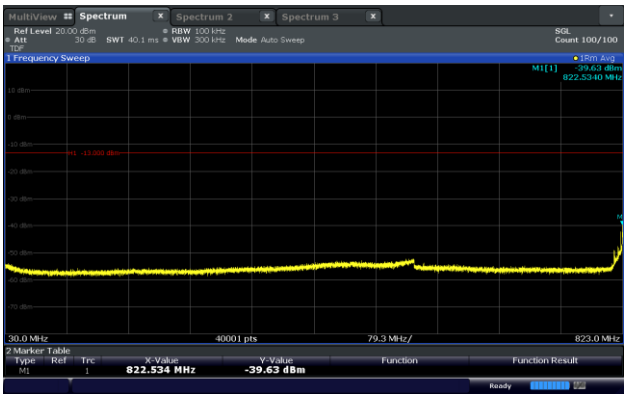
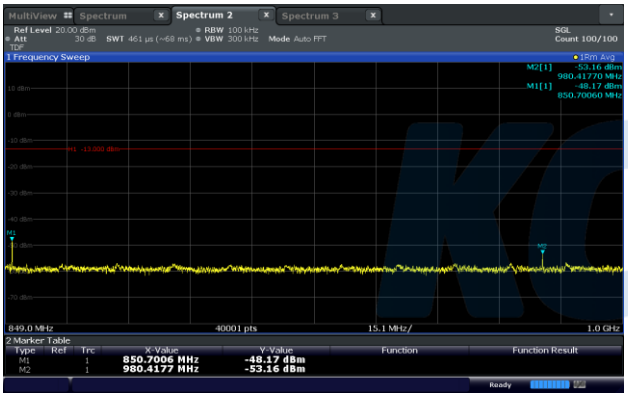
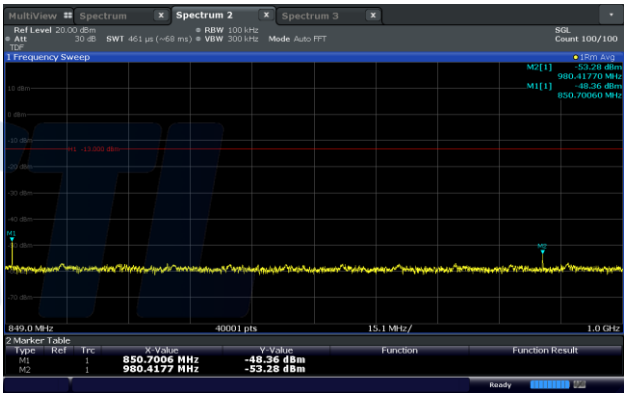
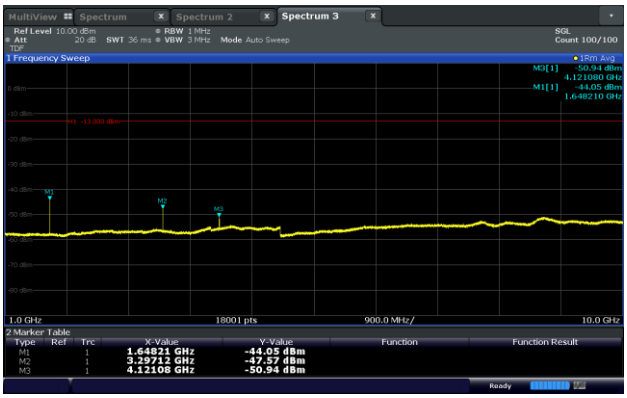
Test mode: LTE Band5

1.4M BW / QPSK / Mid ch.	1.4M BW / 16QAM / Mid ch.
	
	
	

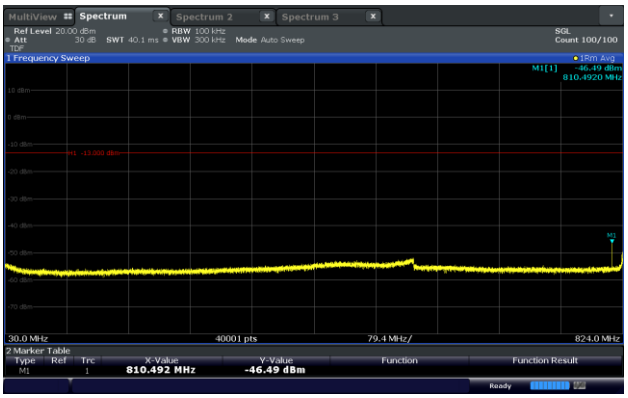
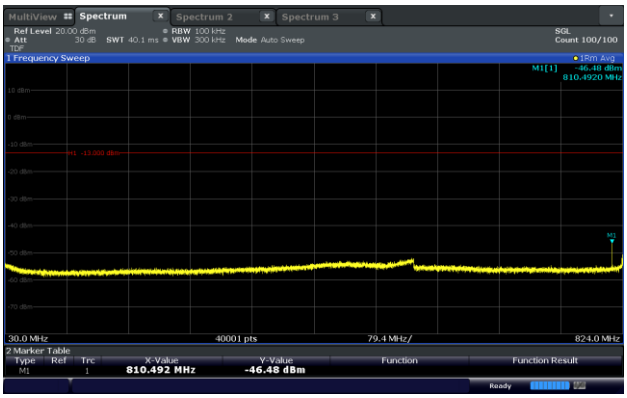
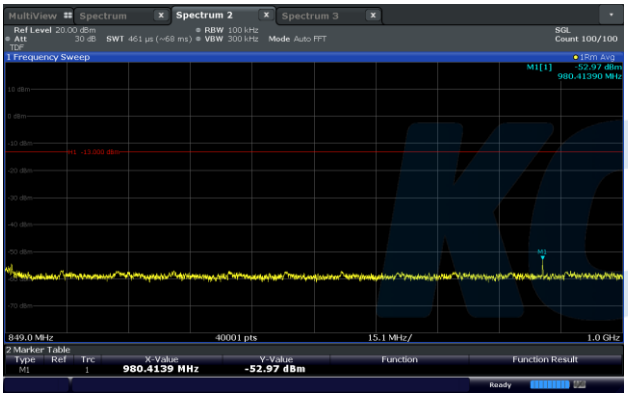
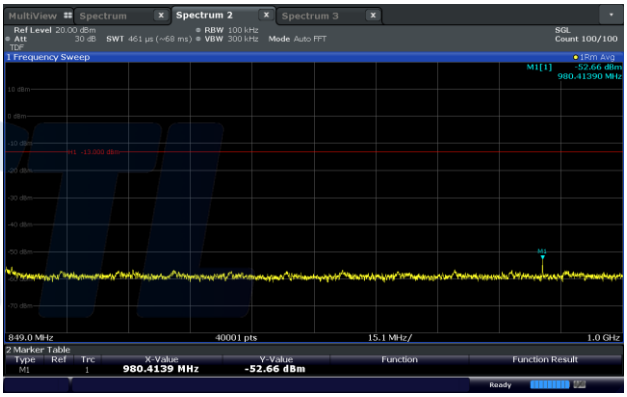
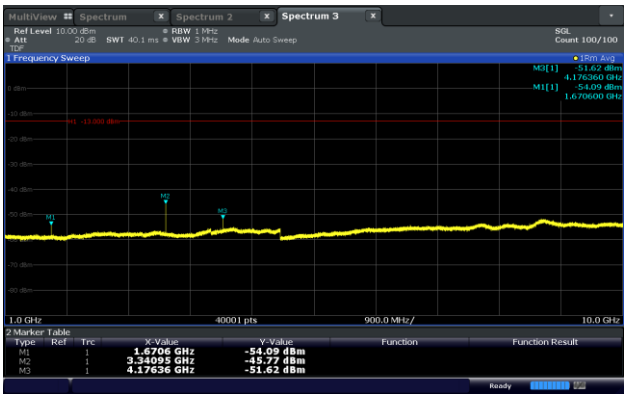
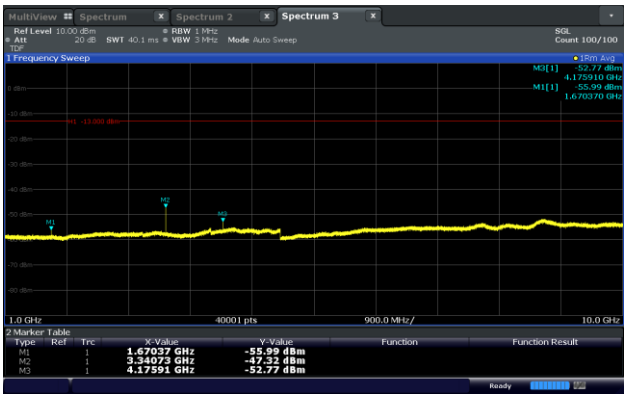
Test mode: LTE Band5

1.4M BW / QPSK / High ch.	1.4M BW / 16QAM / High ch.
	
	
	

Test mode: LTE Band5

3M BW / QPSK / Low ch.	3M BW / 16QAM / Low ch.
	
	
	

Test mode: LTE Band5

3M BW / QPSK / Mid ch.	3M BW / 16QAM / Mid ch.
	
	
	

Test mode: LTE Band5

3M BW / QPSK / High ch.	3M BW / 16QAM / High ch.