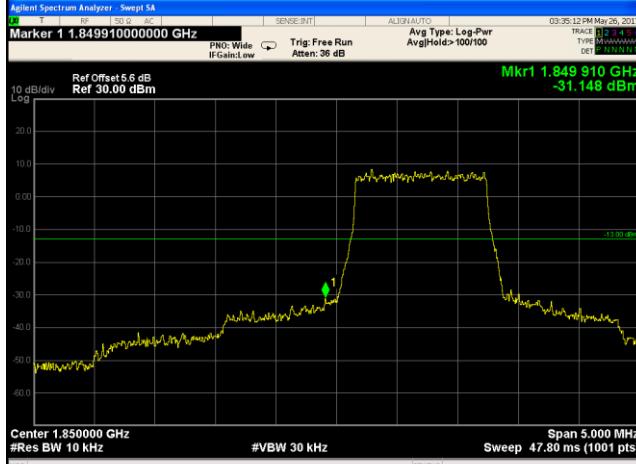
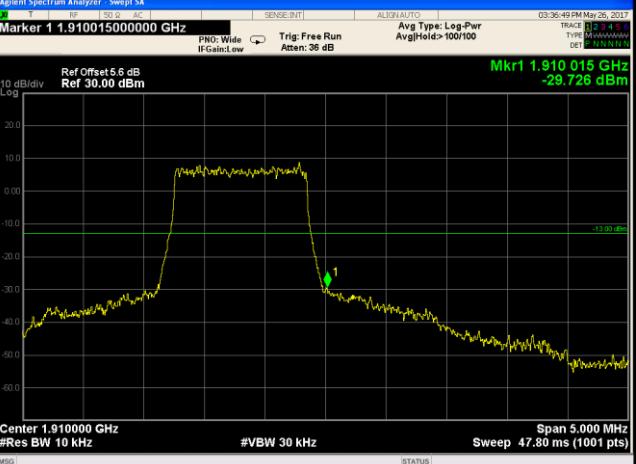
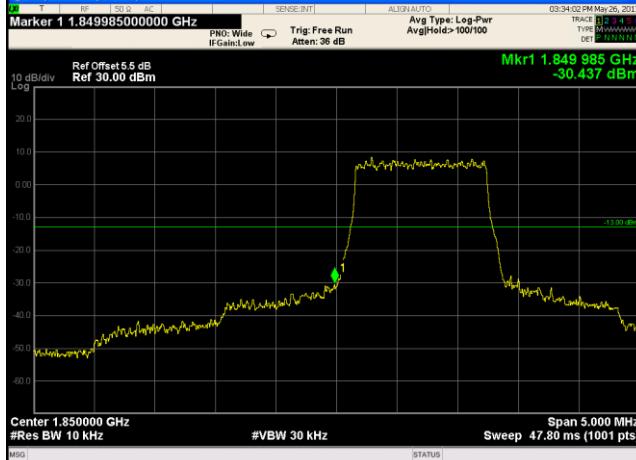
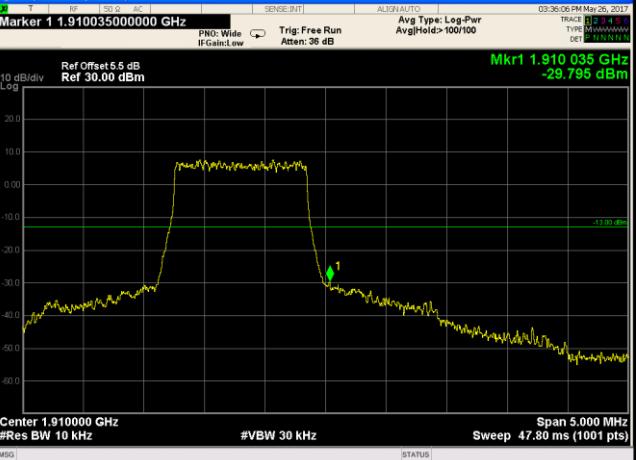
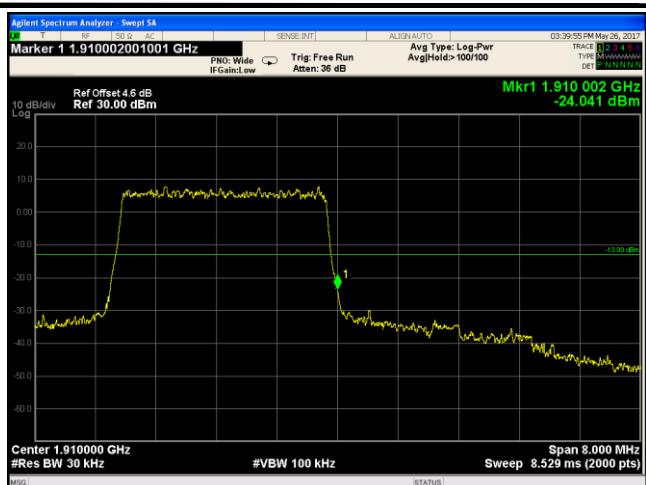
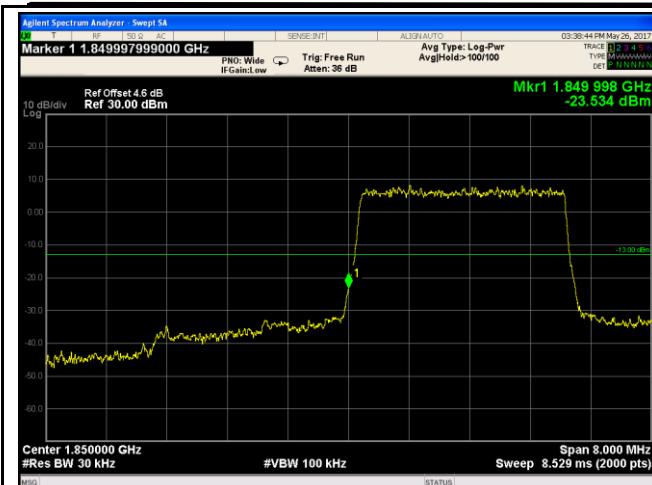


Test Plots

LTE Band II (Part 24E)

 <p>Marker 1 1.849910000000 GHz</p> <p>Mkr1 1.849 910 GHz -31.148 dBm</p> <p>Center 1.850000 GHz #Res BW 10 KHz #VBW 30 kHz Span 5.000 MHz Sweep 47.80 ms (1001 pts)</p>	 <p>Marker 1 1.910015000000 GHz</p> <p>Mkr1 1.910 015 GHz -28.726 dBm</p> <p>Center 1.910000 GHz #Res BW 10 KHz #VBW 30 kHz Span 5.000 MHz Sweep 47.80 ms (1001 pts)</p>
<p>LTE Band II - Low Channel QPSK-1.4</p>	<p>LTE Band II - High Channel QPSK-1.4</p>
<p>Note: Offset=Cable loss (4.5) + 10log $(12.86/10)=4.5+1.1=5.6\text{dB}$</p>	<p>Note: Offset=Cable loss (4.5) + 10log $(12.80/10)=4.5+1.1=5.6\text{dB}$</p>
 <p>Marker 1 1.849985000000 GHz</p> <p>Mkr1 1.849 985 GHz -30.437 dBm</p> <p>Center 1.850000 GHz #Res BW 10 KHz #VBW 30 kHz Span 5.000 MHz Sweep 47.80 ms (1001 pts)</p>	 <p>Marker 1 1.910035000000 GHz</p> <p>Mkr1 1.910 035 GHz -29.795 dBm</p> <p>Center 1.910000 GHz #Res BW 10 KHz #VBW 30 kHz Span 5.000 MHz Sweep 47.80 ms (1001 pts)</p>
<p>LTE Band II - Low Channel 16QAM-1.4</p>	<p>LTE Band II - High Channel 16QAM-1.4</p>
<p>Note: Offset=Cable loss (4.5) + 10log $(12.61/10)=4.5+1.0=5.5 \text{ dB}$</p>	<p>Note: Offset=Cable loss (4.5) + 10log $(12.60/10)=4.5+1.0=5.5 \text{ dB}$</p>



LTE Band II - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.43/30)=4.5+0.1=4.6$ dB



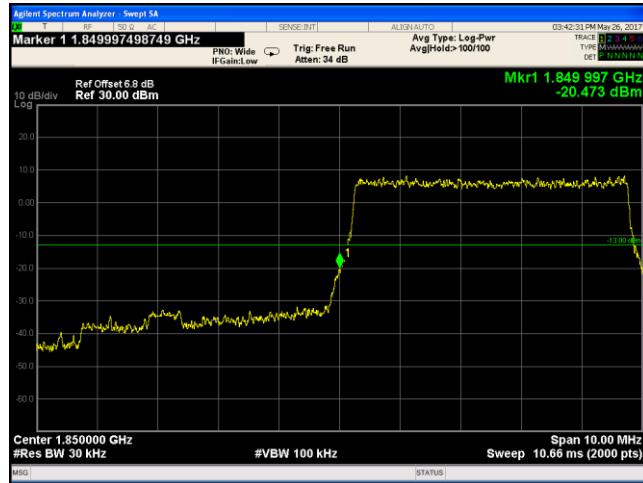
LTE Band II - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.69/30)=4.5+0.1=4.6$ dB



LTE Band II - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.63/30)=4.5+0.1=4.6$ dB



LTE Band II - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.71/30)=4.5+0.1=4.6$ dB



LTE Band II - Low Channel QPSK-5

LTE Band II - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
 $(50.95/30)=4.5+2.3=6.8 \text{ dB}$



Note: Offset=Cable loss (4.5) + 10log
 $(50.74/30)=4.5+2.3=6.8 \text{ dB}$



LTE Band II - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(50.92/30)=4.5+2.3=6.8 \text{ dB}$



LTE Band II - High Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(50.71/30)=4.5+2.3=6.8 \text{ dB}$



LTE Band II - Low Channel QPSK-10



LTE Band II - High Channel QPSK-10



LTE Band II - Low Channel 16QAM-10

LTE Band II - High Channel 16QAM-10

Note: Offset=Cable loss (4.5) + 10log
 $(100.9/100)=4.5+0.0=4.5$ dB



Note: Offset=Cable loss (4.5) + 10log
 $(101.6/100)=4.5+0.0=4.5$ dB



LTE Band II - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
 $(148.6/100)=4.5+1.7=6.2$ dB



LTE Band II - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
 $(148.5/100)=4.5+1.7=6.2$ dB

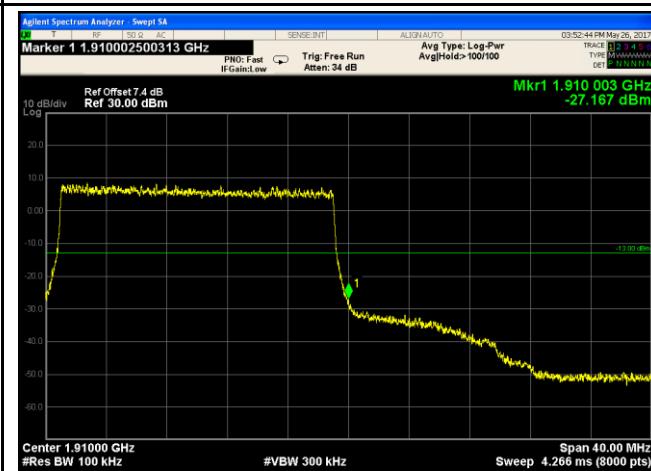


LTE Band II - Low Channel 16QAM-15

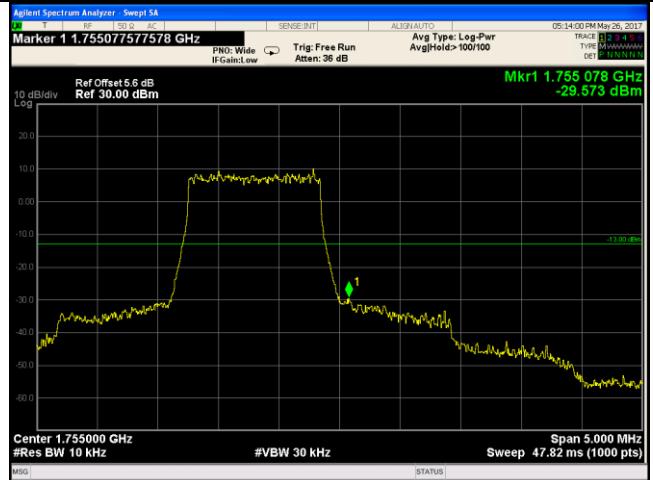
Note: Offset=Cable loss (4.5) + 10log
 $(148.6/100)=4.5+1.7=6.2$ dB

LTE Band II - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
 $(148.9/100)=4.5+1.7=6.2$ dB

 <p>Marker 1 1.849997499687 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB</p> <p>Mkr1 1.849 997 GHz -24.975 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.85000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>	 <p>Marker 1 1.910002500313 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB</p> <p>Mkr1 1.910 003 GHz -26.661 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.91000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>
<p>LTE Band II - Low Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (194/100)=4.5+2.9=7.4 dB</p>	<p>LTE Band II - High Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (194.1/100)=4.5+2.9=7.4 dB</p>
 <p>Marker 1 1.849997499687 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB</p> <p>Mkr1 1.849 997 GHz -25.039 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.85000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>	 <p>Marker 1 1.910002500313 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB</p> <p>Mkr1 1.910 003 GHz -27.167 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.91000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>
<p>LTE Band II - Low Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (193.9/100)=4.5+2.9=7.4 dB</p>	<p>LTE Band II - High Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (194.2/100)=4.5+2.9=7.4 dB</p>

LTE Band IV (Part 27)

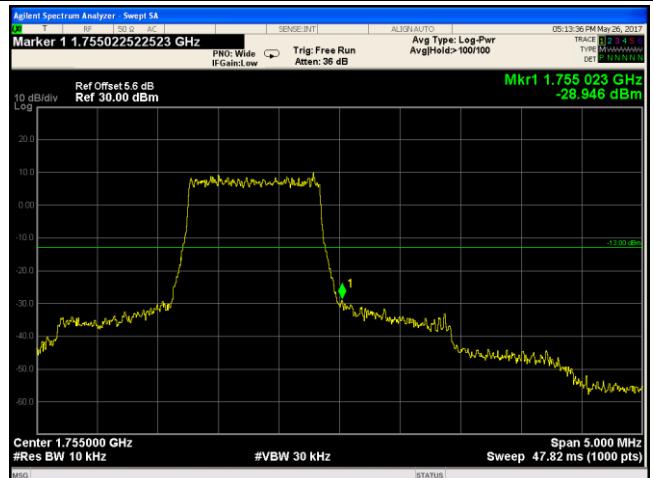
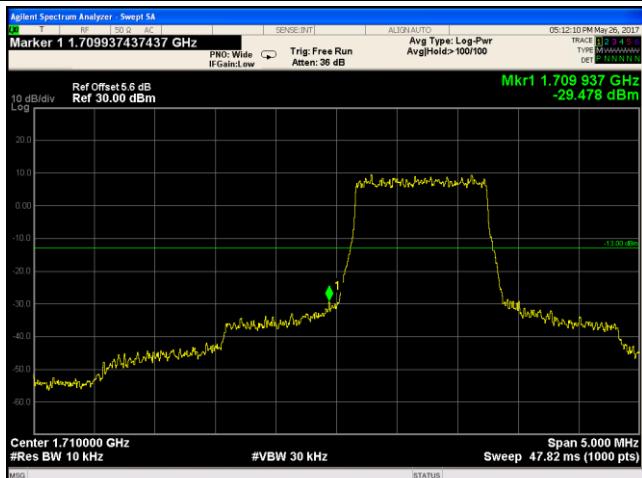


LTE Band IV - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.82/10)=4.5+1.1=5.6$ dB

LTE Band IV - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.78/10)=4.5+1.1=5.6$ dB

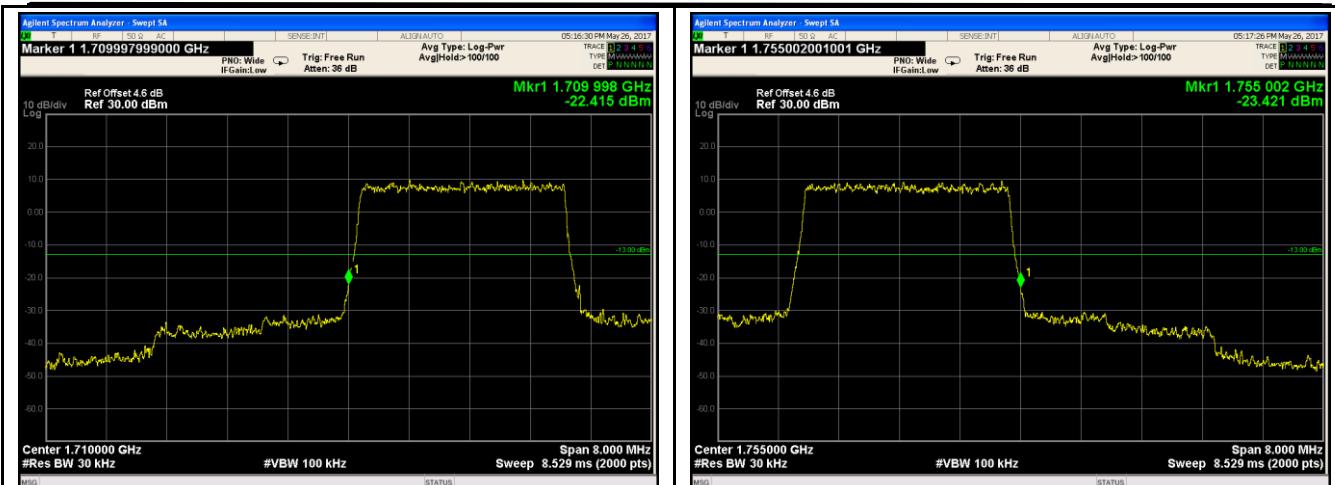


LTE Band IV - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.84/10)=4.5+1.1=5.6$ dB

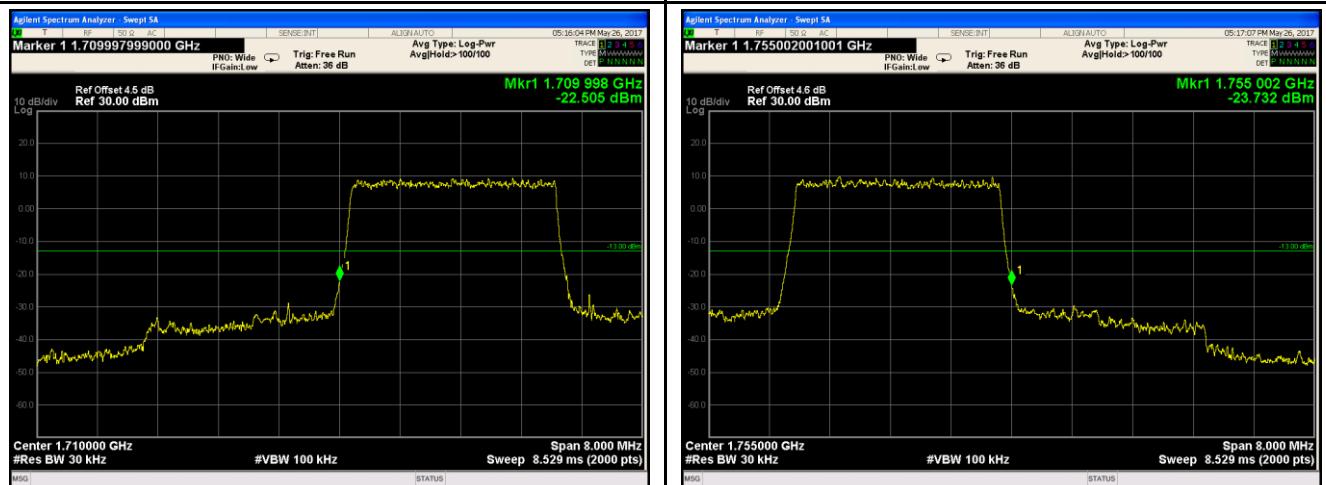
LTE Band IV - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
 $((12.76/10)=4.5+1.1=5.6$ dB



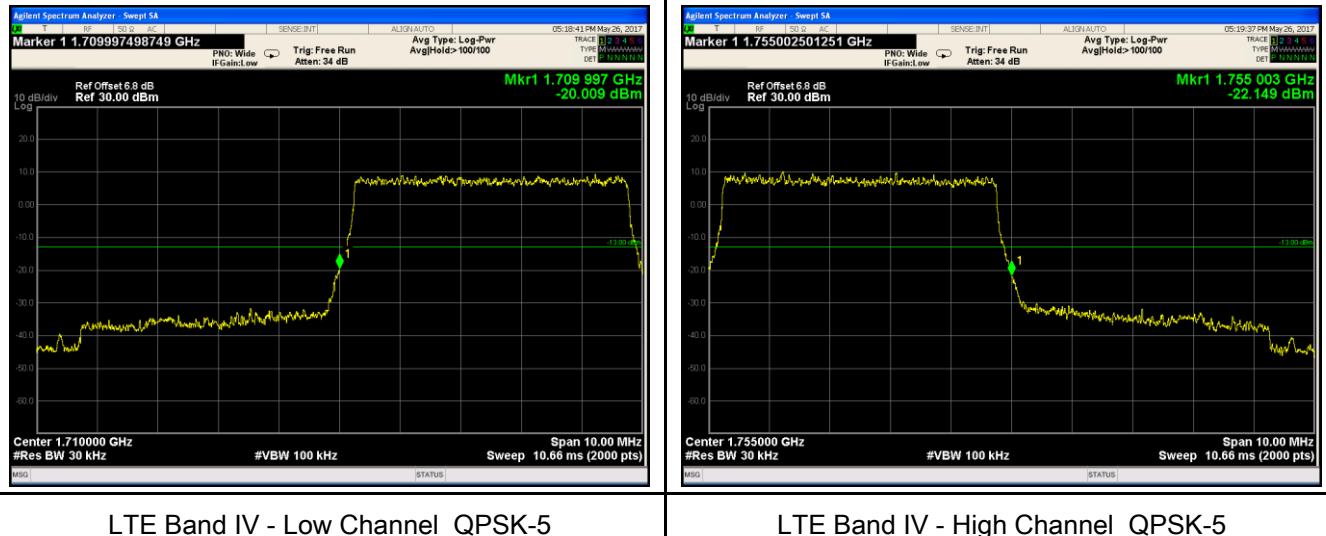
LTE Band IV - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.36/30)=4.5+0.1=4.6$ dB



LTE Band IV - Low Channel 16QAM-3

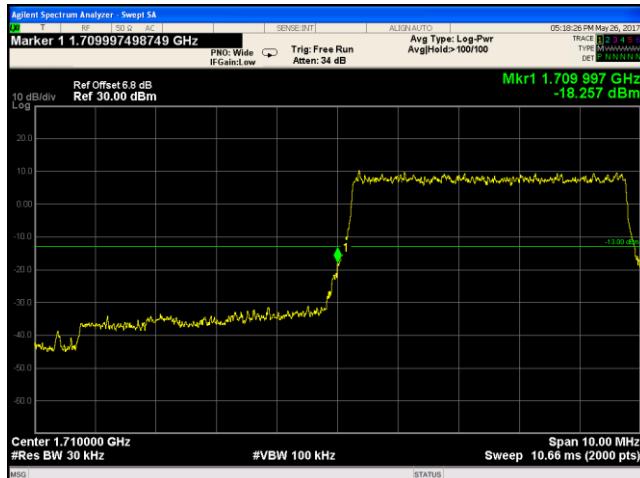
Note: Offset=Cable loss (4.5) + 10log
 $(30.31/30)=4.5+0.0=4.5$ dB



LTE Band IV - Low Channel QPSK-5

LTE Band IV - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
 $(50.95/30)=4.5+2.3=6.8 \text{ dB}$



Note: Offset=Cable loss (4.5) + 10log
 $(50.58/30)=4.5+2.3=6.8 \text{ dB}$



LTE Band IV - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(51.01/30)=4.5+2.3=6.8 \text{ dB}$

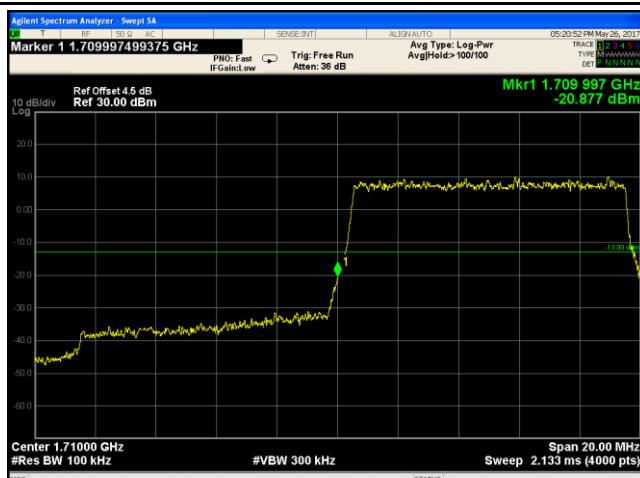


LTE Band IV - High Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(50.60/30)=4.5+2.3=6.8 \text{ dB}$



LTE Band IV - Low Channel QPSK-10

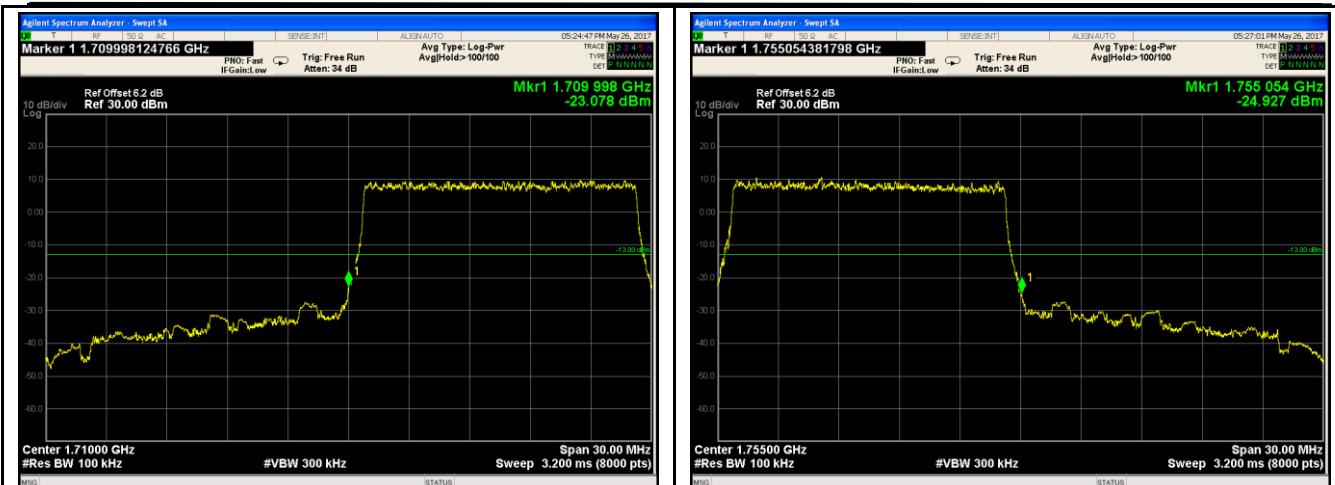


LTE Band IV - High Channel QPSK-10



LTE Band IV - Low Channel 16QAM-10

LTE Band IV - High Channel 16QAM-10

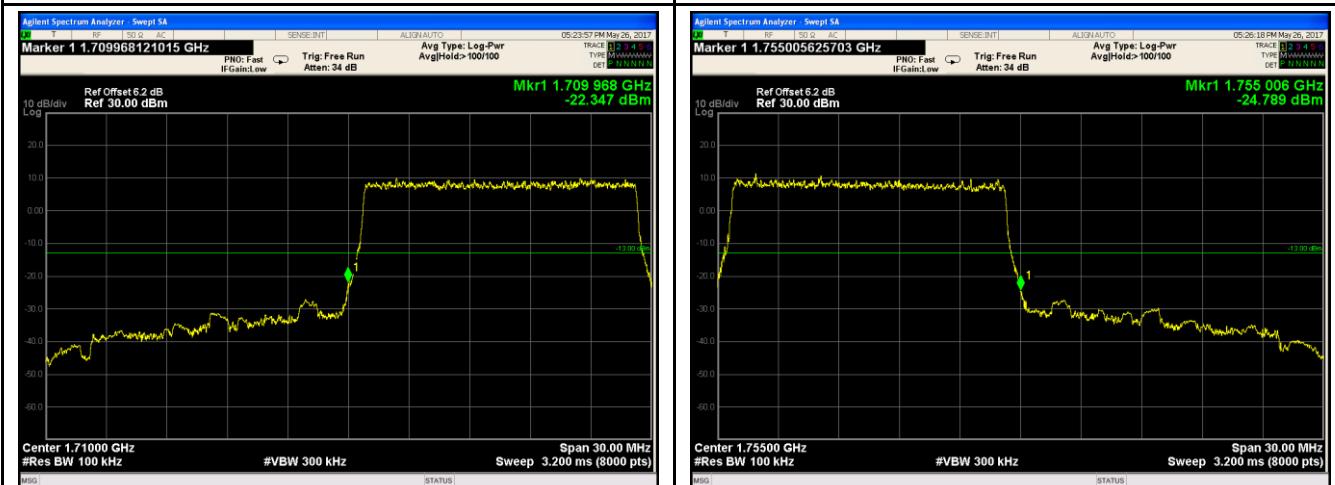


LTE Band IV - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
 $(135/100)=4.5+1.7=6.2$ dB

LTE Band IV - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
 $(135/100)=4.5+1.7=6.2$ dB



LTE Band IV - Low Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
 $(135/100)=4.5+1.7=6.2$ dB

LTE Band IV - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log
 $(135/100)=4.5+1.7=6.2$ dB



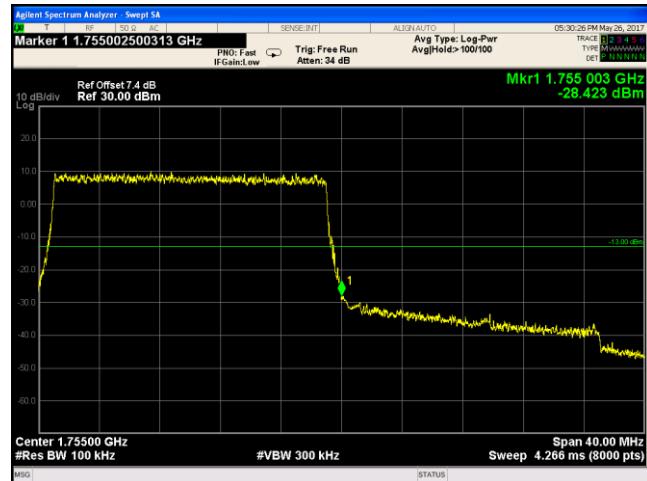
LTE Band IV - Low Channel QPSK-20

LTE Band IV - High Channel QPSK-20

Note: Offset=Cable loss (4.5) + 10log
 $(179.1/100)=4.5+2.9=7.4 \text{ dB}$



Note: Offset=Cable loss (4.5) + 10log
 $(199/100)=4.5+2.9=7.4 \text{ dB}$



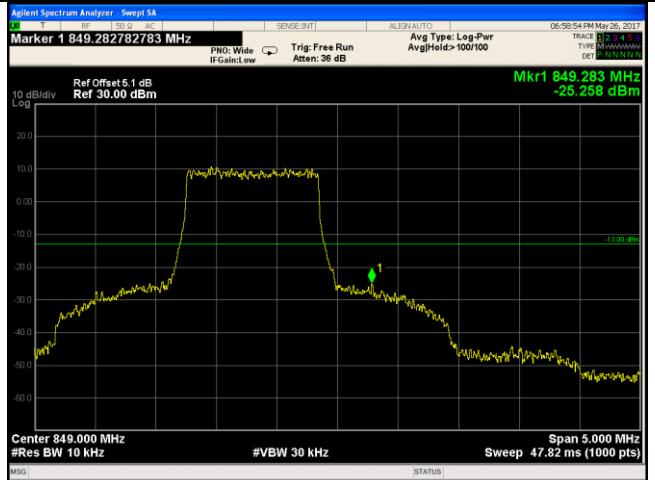
LTE Band IV - Low Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log
 $(179.1/100)=4.5+2.9=7.4 \text{ dB}$

LTE Band IV - High Channel 16QAM-20

Note: Offset=Cable loss (4.5) + 10log
 $(179/100)=4.5+2.9=7.4 \text{ dB}$

LTE Band V (Part 22H)

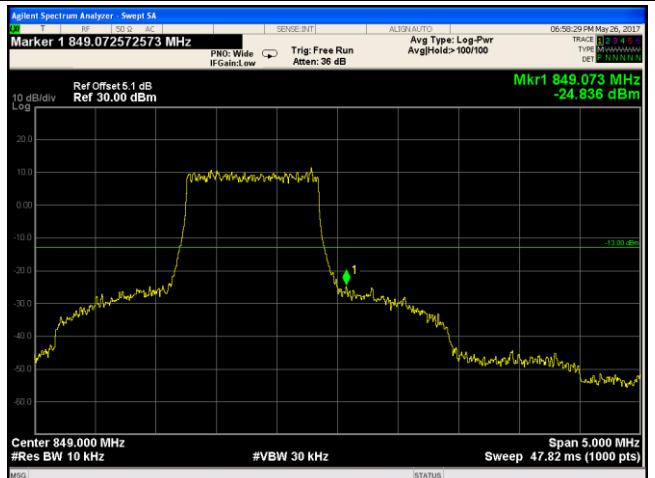


LTE Band V - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.92/10)=4.0+1.1=5.1$ dB

LTE Band V - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.79/10)=4.0+1.1=5.1$ dB

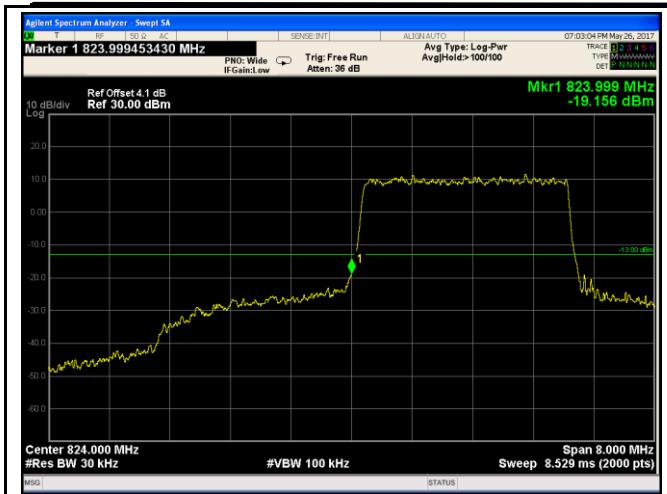
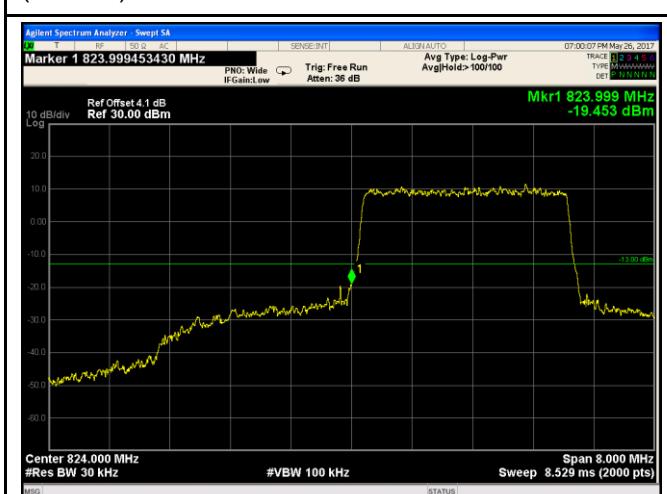


LTE Band V - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.88/10)=4.0+1.1=5.1$ dB

LTE Band V - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.85/10)=4.0+1.1=5.1$ dB

 <p>Marker 1 823.999453430 MHz Mkr1 823.999 MHz -19.156 dBm</p> <p>Center 824.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>	 <p>Marker 1 849.018009005 MHz Mkr1 849.018 MHz -21.665 dBm</p> <p>Center 849.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>
<p>LTE Band V - Low Channel QPSK-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.6/30)=4.0+0.1=4.1 dB</p>	<p>LTE Band V - High Channel QPSK-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.58/30)=4.0+0.1=4.1 dB</p>
 <p>Marker 1 823.999453430 MHz Mkr1 823.999 MHz -19.453 dBm</p> <p>Center 824.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>	 <p>Marker 1 849.018009005 MHz Mkr1 849.018 MHz -22.383 dBm</p> <p>Center 849.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>
<p>LTE Band V - Low Channel 16QAM-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.63/30)=4.0+0.1=4.1 dB</p>	<p>LTE Band V - High Channel 16QAM-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.51/30)=4.5+0.1=4.1 dB</p>
 <p>Marker 1 823.997498749 MHz Mkr1 823.997 MHz -18.337 dBm</p> <p>Ref Offset 5.3 dB Ref 30.00 dBm</p> <p>Center 824.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>	 <p>Marker 1 849.027513757 MHz Mkr1 849.028 MHz -19.174 dBm</p> <p>Ref Offset 5.3 dB Ref 30.00 dBm</p> <p>Center 849.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band V - Low Channel QPSK-5</p>	<p>LTE Band V - High Channel QPSK-5</p>

Note: Offset=Cable loss (4.5) + 10log
 $(51.06/30)=4.0+2.3=6.3$ dB

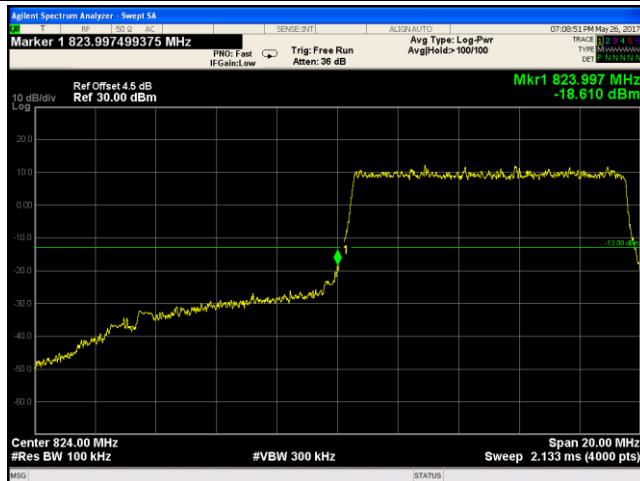


Note: Offset=Cable loss (4.5) + 10log
 $(50.65/30)=4.0+2.3=6.3$ dB



LTE Band V - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(51.10/30)=4.0+2.3=6.3$ dB

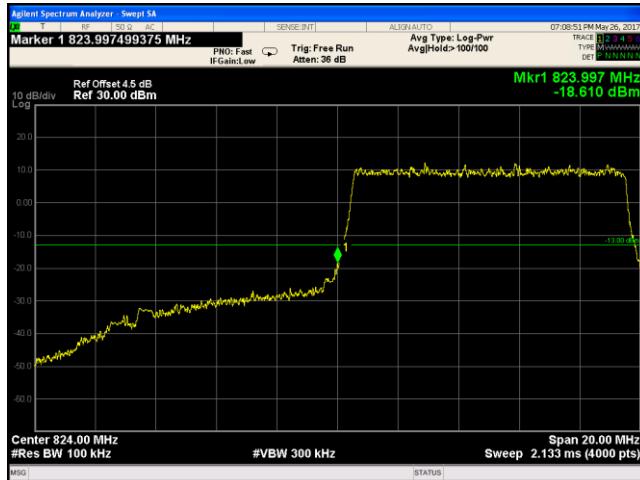


LTE Band V - High Channel 16QAM-5

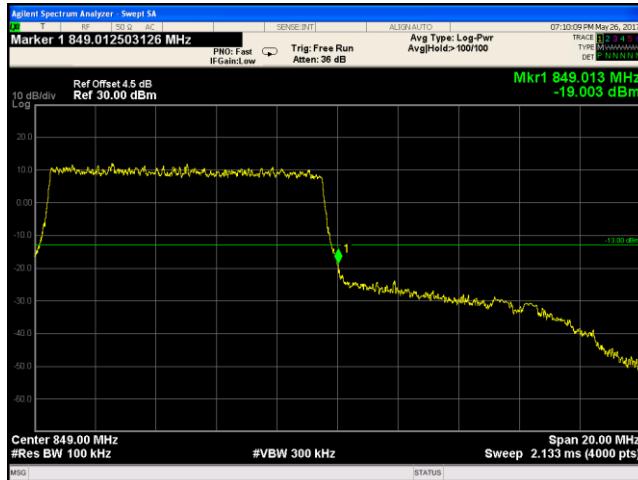
Note: Offset=Cable loss (4.5) + 10log
 $(50.82/30)=4.0+2.3=6.3$ dB



LTE Band V - Low Channel QPSK-10



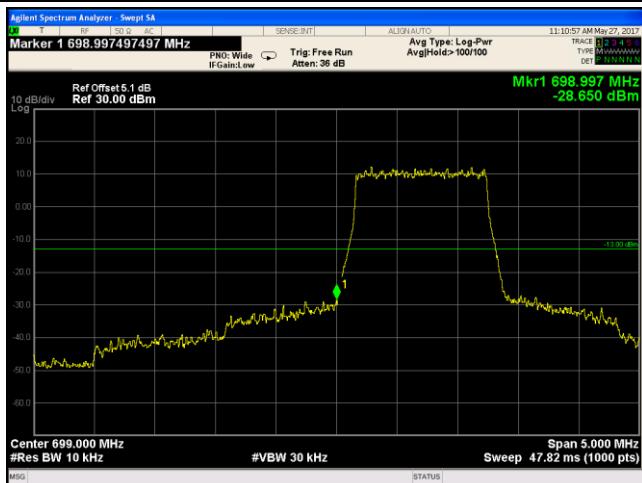
LTE Band V - High Channel QPSK-10



LTE Band V - Low Channel 16QAM-10

LTE Band V - High Channel 16QAM-10

LTE Band XII (Part 27)

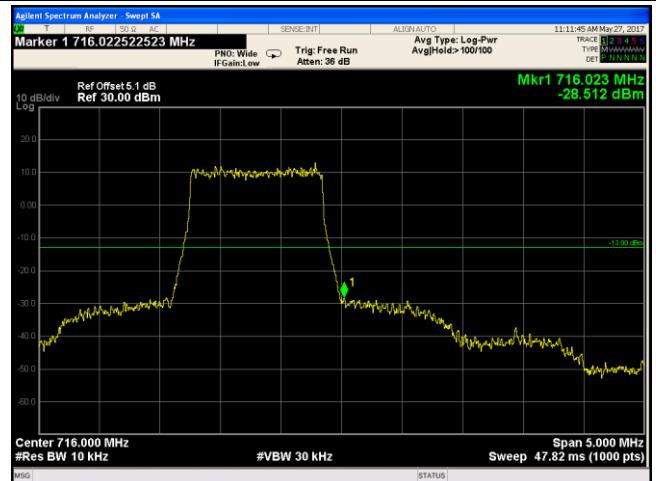
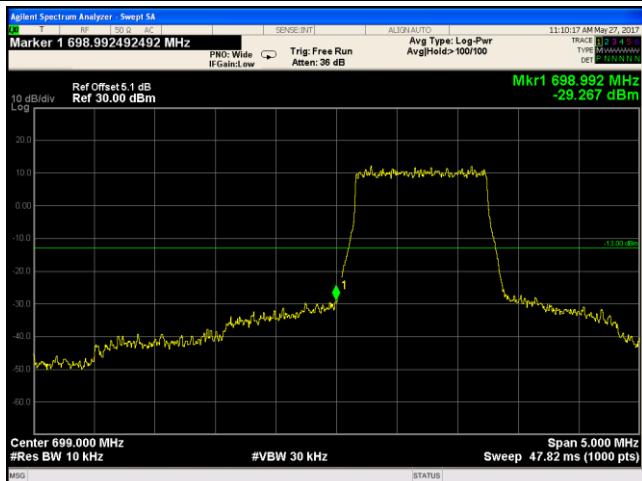


LTE Band XII - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(12.96/10)=4.0+1.1=5.1 dB

LTE Band XII - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(12.90/10)=4.0+1.1=5.1 dB

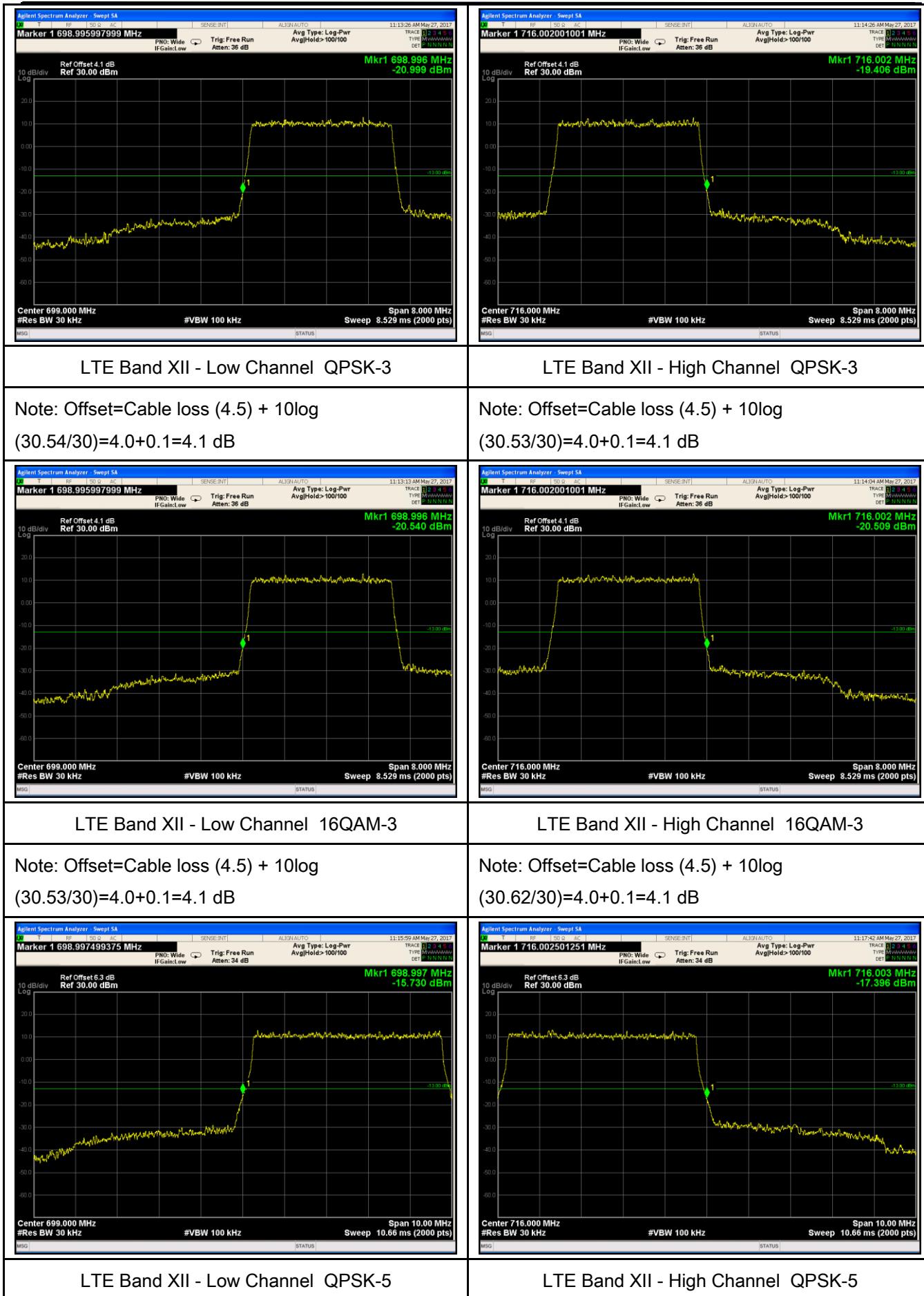


LTE Band XII - Low Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(12.99/10)=4.0+1.1=5.1 dB

LTE Band XII - High Channel 16QAM-1.4

Note: Offset=Cable loss (4.5) + 10log
(12.84/10)=4.0+1.1=5.1 dB



Note: Offset=Cable loss (4.5) + 10log
 $(51.07/30)=4.0+2.3=6.3 \text{ dB}$

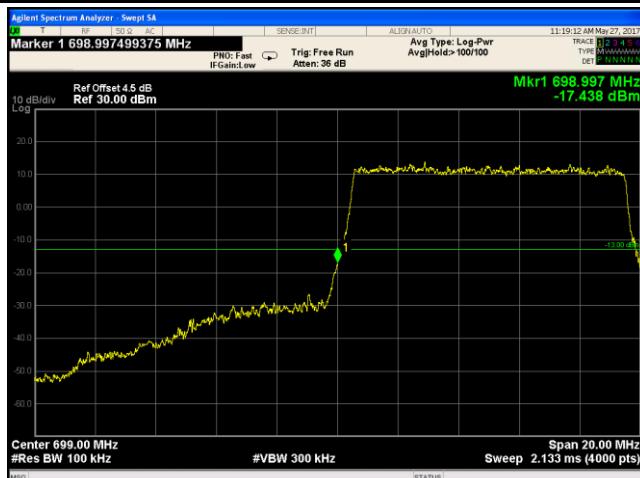


Note: Offset=Cable loss (4.5) + 10log
 $(50.68/30)=4.0+2.3=6.3 \text{ dB}$



LTE Band XII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(51.05/30)=4.0+2.3=6.3 \text{ dB}$

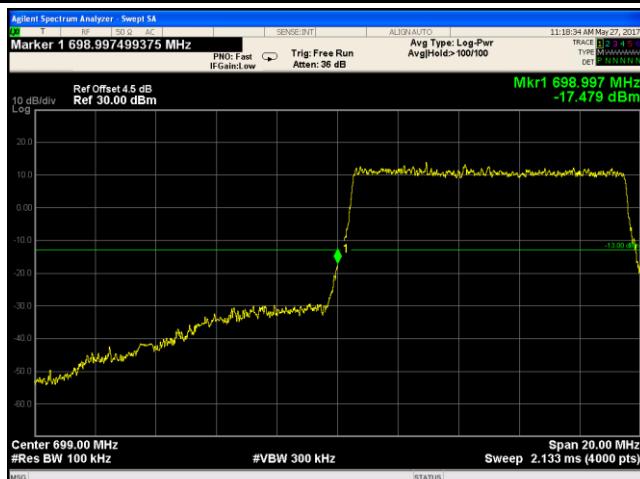


LTE Band XII - High Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
 $(50.68/30)=4.0+2.3=6.3 \text{ dB}$



LTE Band XII - Low Channel QPSK-10



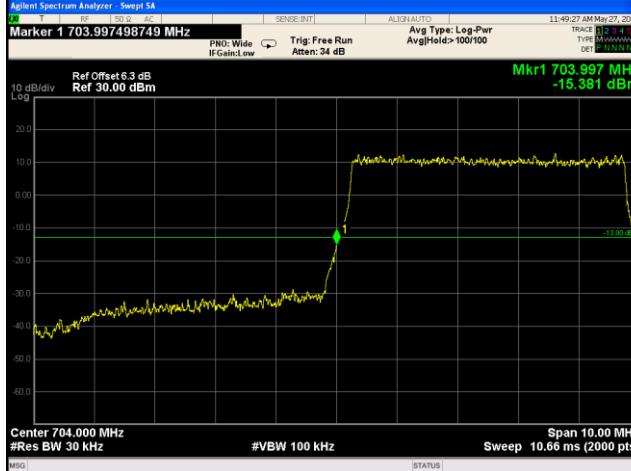
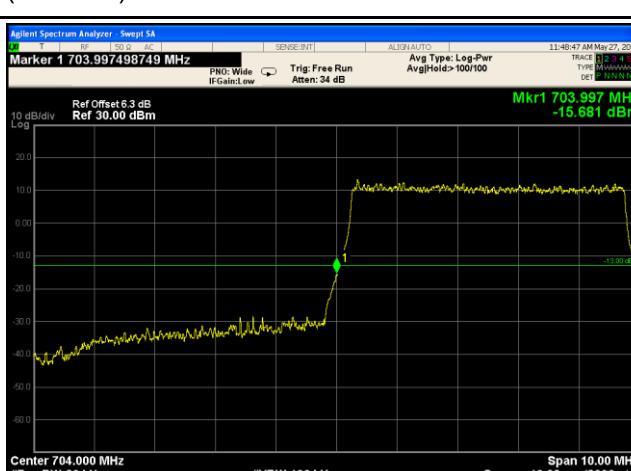
LTE Band XII - High Channel QPSK-10

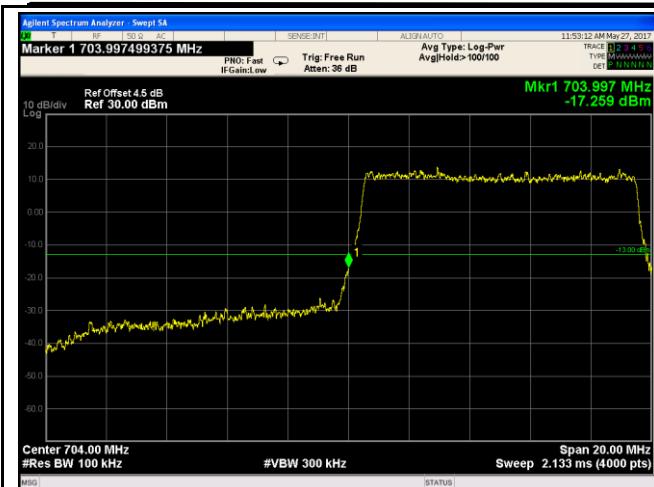


LTE Band XII - Low Channel 16QAM-10

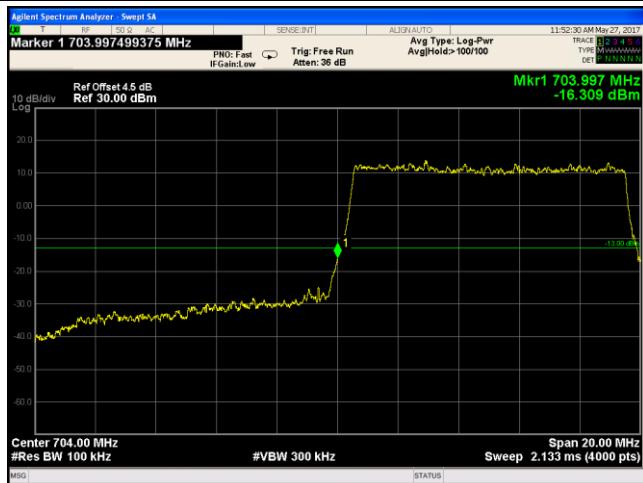
LTE Band XII - High Channel 16QAM-10

LTE Band XVII (Part 27)

 <p>Marker 1 703.997 MHz Mkr1 703.997 MHz -15.381 dBm</p> <p>Center 704.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz (2000 pts)</p>	 <p>Marker 1 716.003 MHz Mkr1 716.003 MHz -17.569 dBm</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz (2000 pts)</p>
<p>LTE Band XVII - Low Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (51.03/30)=4.0+2.3=6.3 dB</p>	<p>LTE Band XVII - High Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (51.04/30)=4.0+2.3=6.3 dB</p>
 <p>Marker 1 703.997 MHz Mkr1 703.997 MHz -15.681 dBm</p> <p>Center 704.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz (2000 pts)</p>	 <p>Marker 1 716.003 MHz Mkr1 716.003 MHz -18.097 dBm</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz (2000 pts)</p>
<p>LTE Band XVII - Low Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (50.89/30)=4.0+2.3=6.3 dB</p>	<p>LTE Band XVII - High Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (51.04/30)=4.0+2.3=6.3 dB</p>



LTE Band XVII - Low Channel QPSK-10



LTE Band XVII - Low Channel 16QAM-10

LTE Band XVII - High Channel QPSK-10

LTE Band XVII - High Channel 16QAM-10

6.8 Band Edge 27.53(m)

Temperature	25°C
Relative Humidity	56%
Atmospheric Pressure	1020mbar
Test date :	May 26&27, 2017
Tested By :	Vera Zhang

Requirement(s):

Spec	Requirement	Applicable
§27.53(m)	According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power(P) by a factor shall be not less than $43+10\log(P)$ dB at the channel edge, the limit of emission equal to -13dBm. And $55+10\log(P)$ dB at 5.5MHz from the channel edges, the limit of emission equal to -25dBm. In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.	<input checked="" type="checkbox"/>
Test Setup	<p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>	
Test Procedure	<ul style="list-style-type: none"> The EUT was connected to Spectrum Analyzer and Base Station via power divider. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers. 	
Remark		
Result	<input checked="" type="checkbox"/> Pass	<input type="checkbox"/> Fail

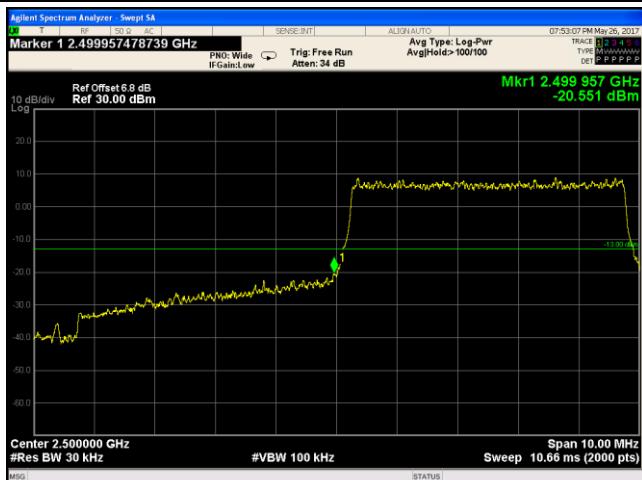
Test Data Yes N/A

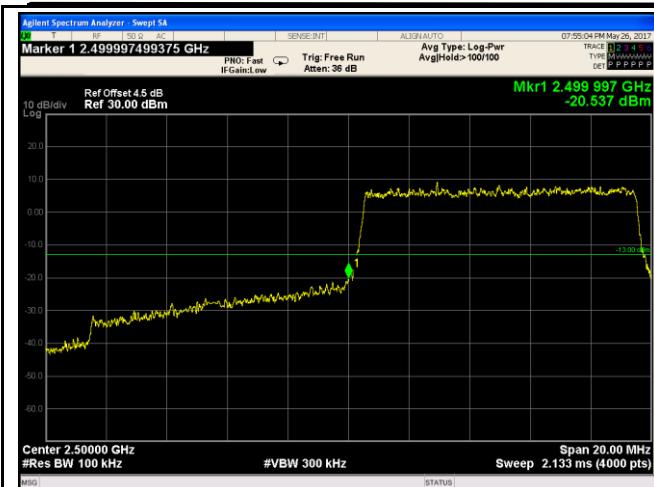
Test Plot Yes (See below) N/A

LTE Band VII (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
5	20775	2500	QPSK	-20.551	-13
			16QAM	-20.136	-13
5	21425	2570	QPSK	-19.392	-13
			16QAM	-19.443	-13
10	20800	2500	QPSK	-20.537	-13
			16QAM	-20.613	-13
10	21400	2570	QPSK	-19.805	-13
			16QAM	-19.624	-13
15	20825	2500	QPSK	-17.441	-13
			16QAM	-17.575	-13
15	21400	2570	QPSK	-18.547	-13
			16QAM	-18.708	-13
20	20850	2500	QPSK	-18.830	-13
			16QAM	-19.408	-13
20	21350	2571	QPSK	-20.598	-13
			16QAM	-19.930	-13

LTE Band VII (Part 27)





LTE Band VII - Low Channel QPSK-10

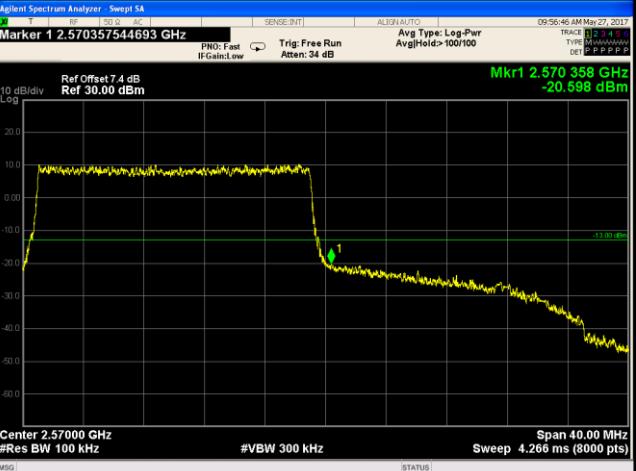
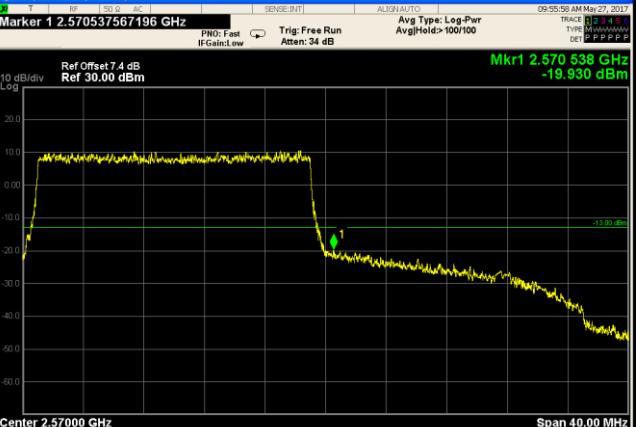
LTE Band VII - High Channel QPSK-10



LTE Band VII - Low Channel 16QAM-10

LTE Band VII - High Channel 16QAM-10

 <p>Marker 1 2.499506813352 GHz PN0: Fast IfGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 2.499 507 GHz -17.441 dBm</p> <p>Center 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.00 MHz Sweep 3.200 ms (8000 pts)</p>	 <p>Marker 1 2.570050631329 GHz PN0: Fast IfGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 2.570 051 GHz -18.547 dBm</p> <p>Center 2.57000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.00 MHz Sweep 3.200 ms (8000 pts)</p>
<p>LTE Band VII - Low Channel QPSK-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(150.2/100)=4.5+1.8=6.3$ dB</p>	<p>LTE Band VII - High Channel QPSK-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(150.3/100)=4.5+1.8=6.3$ dB</p>
 <p>Marker 1 2.499506813352 GHz PN0: Fast IfGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 2.499 507 GHz -17.576 dBm</p> <p>Center 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.00 MHz Sweep 3.200 ms (8000 pts)</p>	 <p>Marker 1 2.570001875234 GHz PN0: Fast IfGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 2.570 002 GHz -18.708 dBm</p> <p>Center 2.57000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.00 MHz Sweep 3.200 ms (8000 pts)</p>
<p>LTE Band VII - Low Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(150.7/100)=4.5+1.8=6.3$ dB</p>	<p>LTE Band VII - High Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(150.3/100)=4.5+1.8=6.3$ dB</p>

 <p>Marker 1 2.49937492187 GHz Mkr1 2.499 937 GHz -18.830 dBm</p> <p>Center 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts)</p>	 <p>Marker 1 2.570357544693 GHz Mkr1 2.570 358 GHz -20.598 dBm</p> <p>Center 2.57000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts)</p>
<p>LTE Band VII - Low Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (195.2/100)=4.5+2.9=7.4 dB</p>	<p>LTE Band VII - High Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (194 /100)=4.5+2.9=7.4dB</p>
 <p>Marker 1 2.499342417802 GHz Mkr1 2.499 342 GHz -19.408 dBm</p> <p>Center 2.50000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts)</p>	 <p>Marker 1 2.570537567196 GHz Mkr1 2.570 538 GHz -19.930 dBm</p> <p>Center 2.57000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts)</p>
<p>LTE Band VII - Low Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (191.6/100)=4.5+2.9=7.4 dB</p>	<p>LTE Band VII - High Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log (194.7/100)=4.5+2.9=7.4 dB</p>

6.9 Frequency Stability

Temperature	25°C
Relative Humidity	56%
Atmospheric Pressure	1021mbar
Test date :	May 25, 2017
Tested By :	Vera Zhang

Requirement(s):

Spec	Item	Requirement	Applicable																																
§2.1055, §22.355 & §24.235 § 27.5(h); § 27.54	a)	<p>According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:</p> <p>Frequency Tolerance for Transmitters in the Public Mobile Services</p> <table border="1"> <thead> <tr> <th>Frequency Range (MHz)</th> <th>Base, fixed (ppm)</th> <th>Mobile ≤ 3 watts (ppm)</th> <th>Mobile ≤ 3 watts (ppm)</th> </tr> </thead> <tbody> <tr> <td>25 to 50</td> <td>20.0</td> <td>20.0</td> <td>50.0</td> </tr> <tr> <td>50 to 450</td> <td>5.0</td> <td>5.0</td> <td>50.0</td> </tr> <tr> <td>450 to 512</td> <td>2.5</td> <td>5.0</td> <td>50.0</td> </tr> <tr> <td>821 to 896</td> <td>1.5</td> <td>2.5</td> <td>2.5</td> </tr> <tr> <td>928 to 929.</td> <td>5.0</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>929 to 960.</td> <td>1.5</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>2110 to 2220</td> <td>10.0</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <p>According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.</p> <p>According to §27.54, The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.</p>	Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)	25 to 50	20.0	20.0	50.0	50 to 450	5.0	5.0	50.0	450 to 512	2.5	5.0	50.0	821 to 896	1.5	2.5	2.5	928 to 929.	5.0	N/A	N/A	929 to 960.	1.5	N/A	N/A	2110 to 2220	10.0	N/A	N/A	<input checked="" type="checkbox"/>
Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)																																
25 to 50	20.0	20.0	50.0																																
50 to 450	5.0	5.0	50.0																																
450 to 512	2.5	5.0	50.0																																
821 to 896	1.5	2.5	2.5																																
928 to 929.	5.0	N/A	N/A																																
929 to 960.	1.5	N/A	N/A																																
2110 to 2220	10.0	N/A	N/A																																