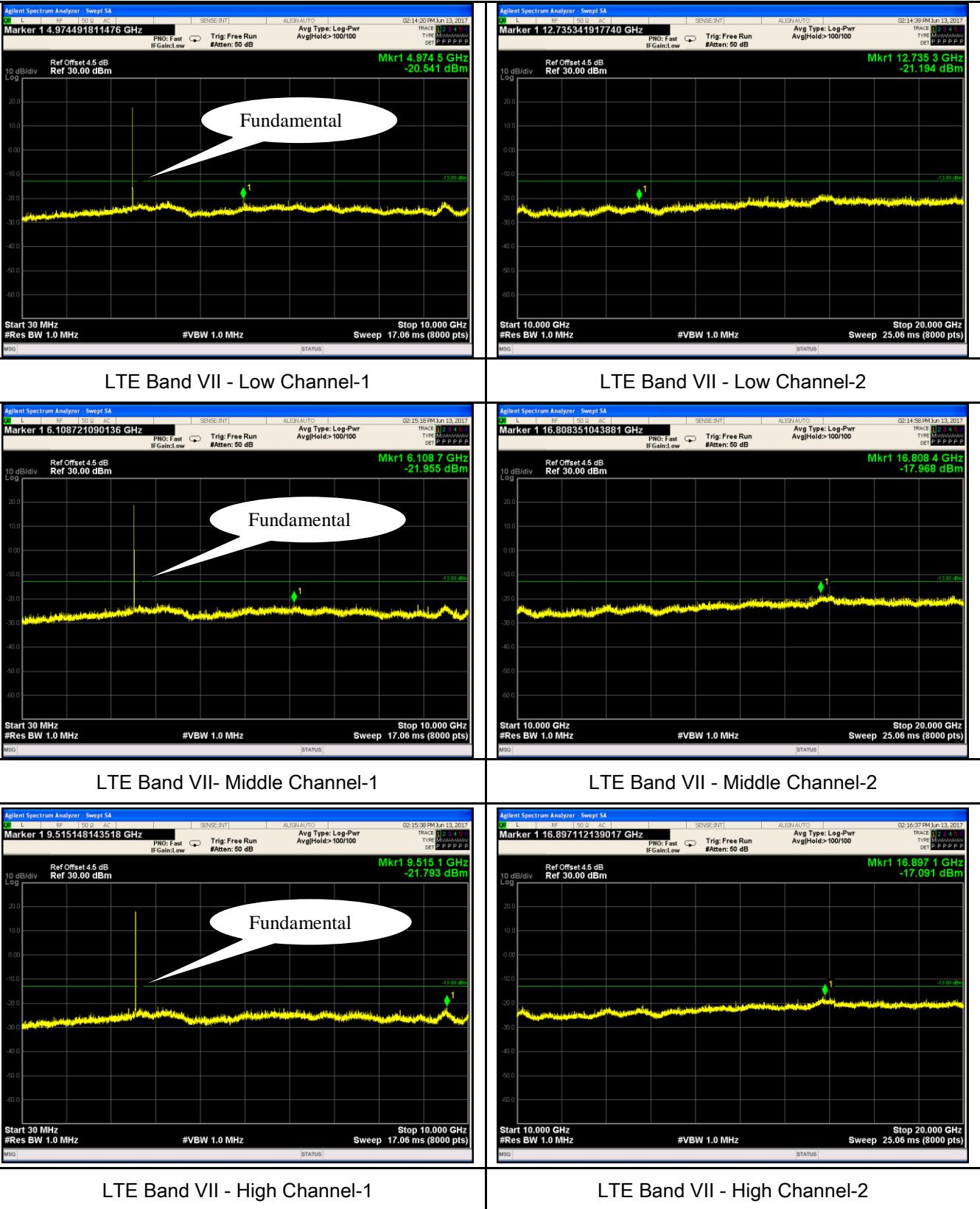
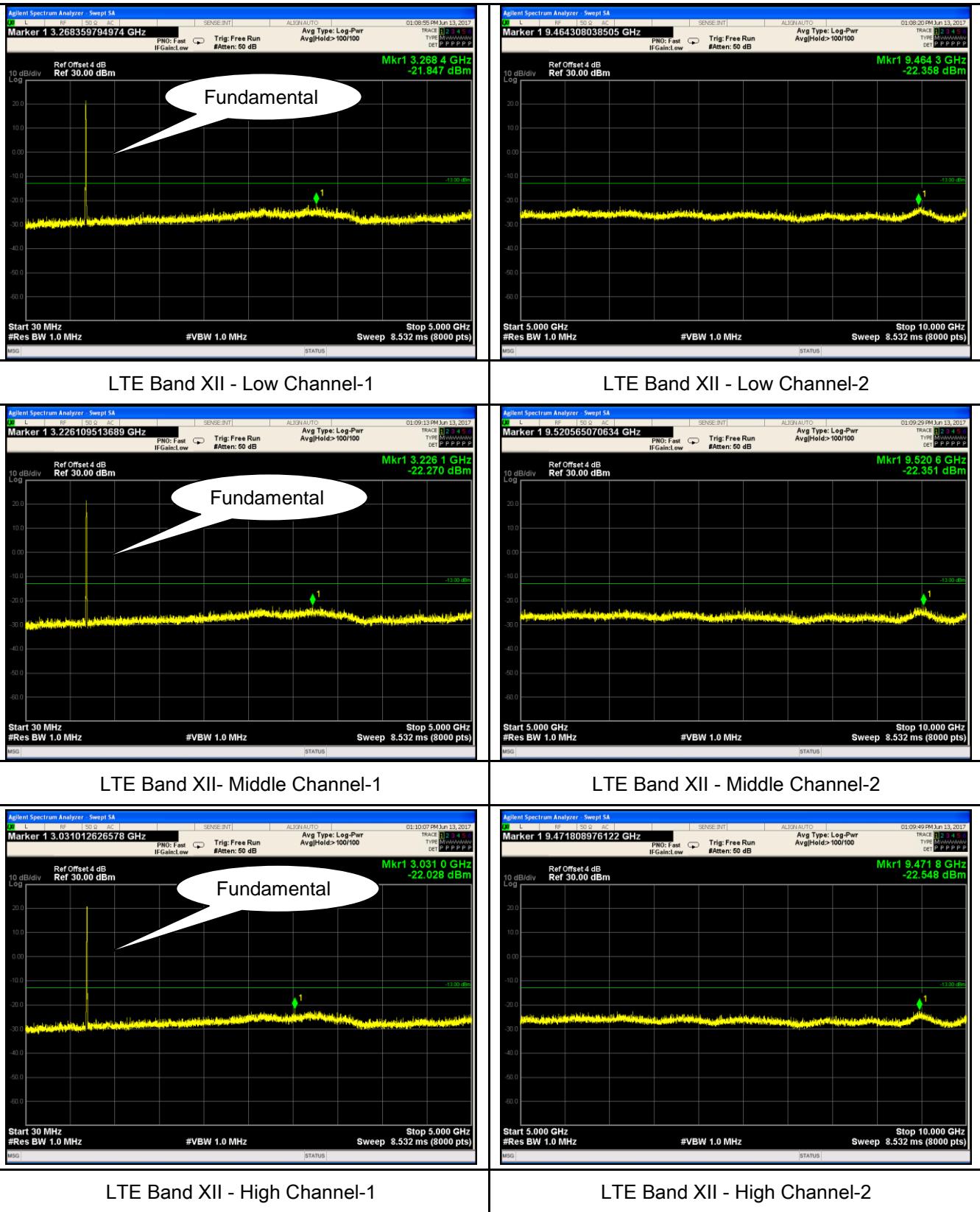


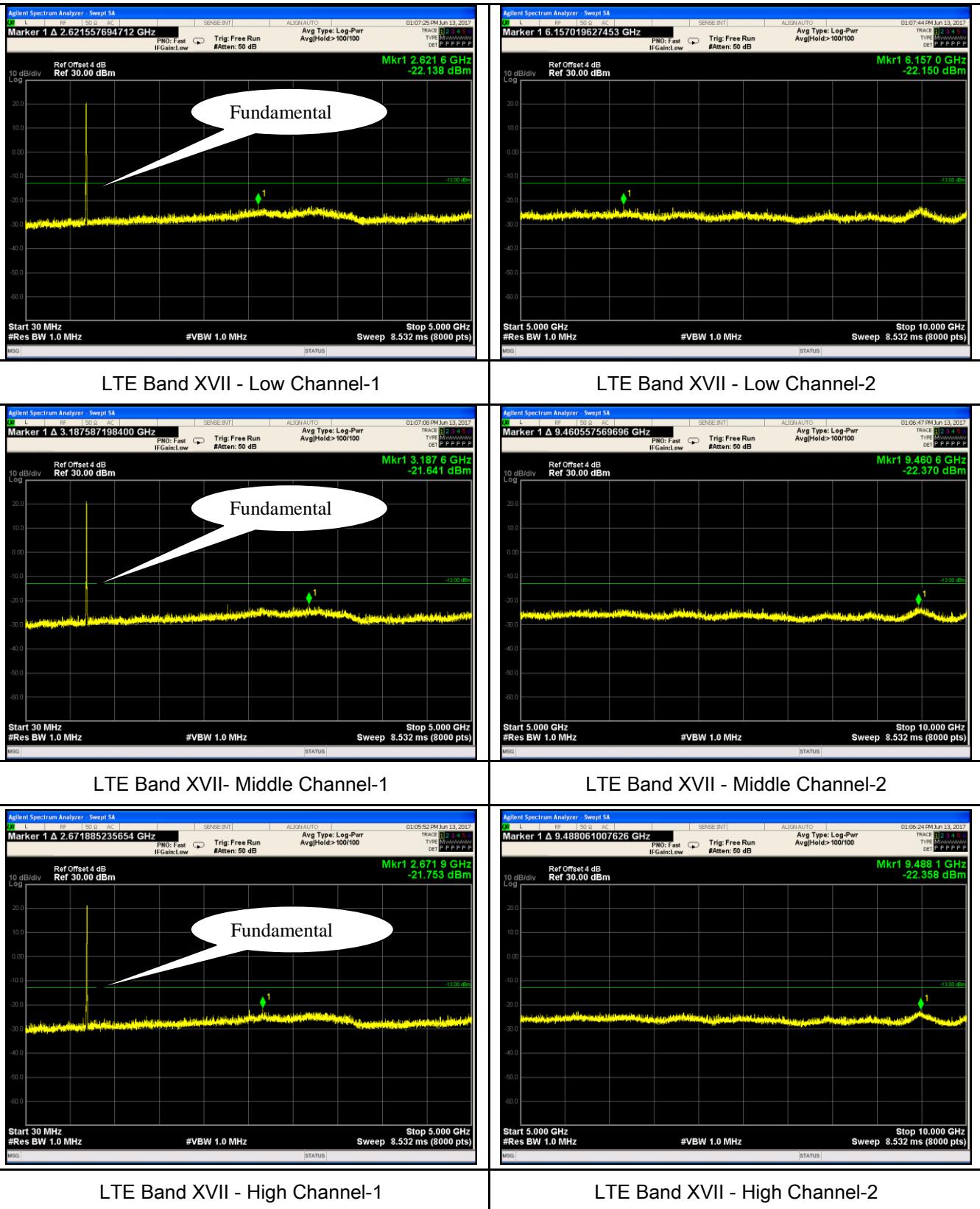
LTE Band VII (Part 27)



LTE Band XII (Part 27)



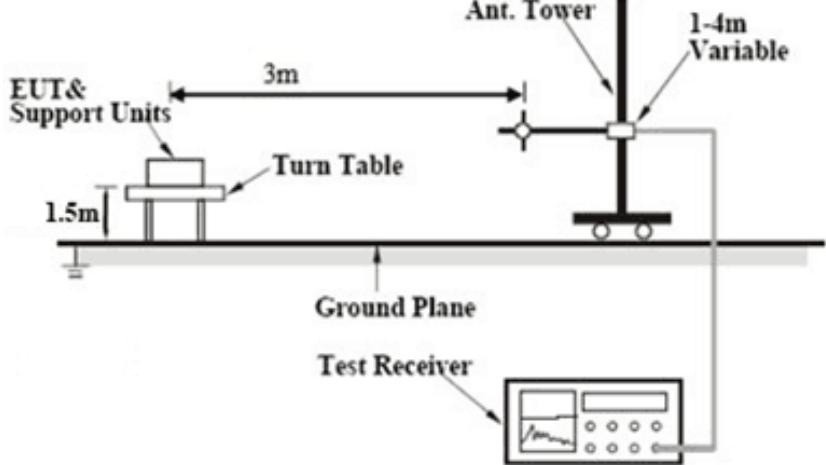
LTE Band XVII (Part 27)



6.6 Spurious Radiated Emissions

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238 § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	<input checked="" type="checkbox"/>
Test setup			
Test Procedure	<ol style="list-style-type: none"> 1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable. 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis. 3. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution. <p>Sample Calculation:</p> <p>EUT Field Strength = Raw Amplitude (dBμV/m) – Amplifier Gain (dB) + Antenna Factor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)</p>		

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 II (Part 24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3720	-46.52	V	10.25	2.73	-39	-13	-26
3720	-48.51	H	10.25	2.73	-40.99	-13	-27.99
50.3	-46.98	V	-4.2	0.11	-51.29	-13	-38.29
204.9	-48.23	H	4.6	0.18	-43.81	-13	-30.81

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-46.97	V	10.25	2.73	-39.45	-13	-26.45
3760	-47.26	H	10.25	2.73	-39.74	-13	-26.74
50.6	-44.81	V	-4.2	0.11	-49.12	-13	-36.12
204.1	-46.85	H	4.6	0.18	-42.43	-13	-29.43

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3800	-46.21	V	10.36	2.73	-38.58	-13	-25.58
3800	-46.87	H	10.36	2.73	-39.24	-13	-26.24
51.4	-44.92	V	-4.2	0.11	-49.23	-13	-36.23
205.9	-46.31	H	4.6	0.18	-41.89	-13	-28.89

Note:

- 1, The testing has been conformed to 10*1907.5MHz=19,075MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

LTE Band IV (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3440	-46.23	V	10.06	2.52	-38.69	-13	-25.69
3440	-47.86	H	10.06	2.52	-40.32	-13	-27.32
50.9	-45.32	V	-4.2	0.11	-49.63	-13	-36.63
202.4	-49.85	H	4.6	0.18	-45.43	-13	-32.43

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3465	-46.51	V	10.09	2.52	-38.94	-13	-25.94
3465	-46.92	H	10.09	2.52	-39.35	-13	-26.35
52.1	-46.28	V	-4.2	0.11	-50.59	-13	-37.59
201.8	-50.13	H	4.6	0.18	-45.71	-13	-32.71

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3490	-45.76	V	10.09	2.52	-38.19	-13	-25.19
3490	-47.25	H	10.09	2.52	-39.68	-13	-26.68
50.4	-46.81	V	-4.2	0.11	-51.12	-13	-38.12
204.2	-49.25	H	4.6	0.18	-44.83	-13	-31.83

Note:

- 1, The testing has been conformed to 10*1752.5MHz=17,525MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

LTE Band VII (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
5020	-48.61	V	10.29	0.98	-39.3	-13	-26.3
5020	-47.92	H	10.29	0.98	-38.61	-13	-25.61
51.3	-46.23	V	-4.2	0.11	-50.54	-13	-37.54
205.8	-48.16	H	4.6	0.18	-43.74	-13	-30.74

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
5070	-47.61	V	10.3	0.99	-38.3	-13	-25.3
5070	-47.95	H	10.3	0.99	-38.64	-13	-25.64
51.4	-45.82	V	-4.2	0.11	-50.13	-13	-37.13
206.8	-48.62	H	4.6	0.18	-44.2	-13	-31.2

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
5120	-48.23	V	10.32	1	-38.91	-13	-25.91
5120	-48.21	H	10.32	1	-38.89	-13	-25.89
52.4	-46.29	V	-4.2	0.11	-50.6	-13	-37.6
209.7	-47.63	H	4.6	0.18	-43.21	-13	-30.21

Note:

- 1, The testing has been conformed to $10 * 2567.5 \text{ MHz} = 25,675 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z -Axis were investigated. The results above show only the worst case.

LTE Band XII (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1408	-48.13	V	7.65	0.75	-41.23	-13	-28.23
1408	-46.95	H	7.65	0.75	-40.05	-13	-27.05
575.6	-56.75	V	6.5	0.36	-50.61	-13	-37.61
843.9	-50.48	H	6.8	0.44	-44.12	-13	-31.12

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1415	-47.26	V	7.65	0.75	-40.36	-13	-27.36
1415	-47.91	H	7.65	0.75	-41.01	-13	-28.01
564.2	-55.97	V	6.5	0.36	-49.83	-13	-36.83
843.1	-50.63	H	6.8	0.44	-44.27	-13	-31.27

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1422	-46.23	V	7.65	0.75	-39.33	-13	-26.33
1422	-47.91	H	7.65	0.75	-41.01	-13	-28.01
567.8	-57.24	V	6.5	0.36	-51.1	-13	-38.1
842.5	-49.32	H	6.8	0.44	-42.96	-13	-29.96

Note:

- 1, The testing has been conformed to 10*715.3MHz=7,153MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

LTE Band XVII (Part27) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1418	-43.19	V	7.65	0.75	-36.29	-13	-23.29
1418	-44.62	H	7.65	0.75	-37.72	-13	-24.72
50.6	-44.97	V	-4.2	0.11	-49.28	-13	-36.28
203.9	-48.12	H	4.6	0.18	-43.7	-13	-30.7

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1420	-43.56	V	7.65	0.75	-36.66	-13	-23.66
1420	-47.15	H	7.65	0.75	-40.25	-13	-27.25
50.9	-45.26	V	-4.2	0.11	-49.57	-13	-36.57
205.1	-48.13	H	4.6	0.18	-43.71	-13	-30.71

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1422	-44.1	V	7.65	0.75	-37.2	-13	-24.2
1422	-44.92	H	7.65	0.75	-38.02	-13	-25.02
50.4	-46.28	V	-4.2	0.11	-50.59	-13	-37.59
203.7	-48.63	H	4.6	0.18	-44.21	-13	-31.21

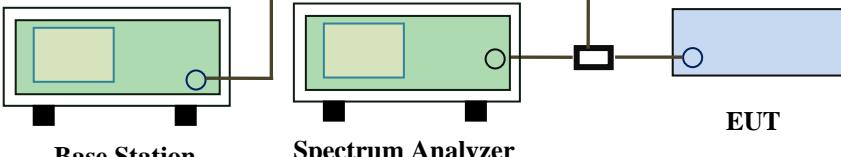
Note:

- 1, The testing has been conformed to 10*713.5MHz=7,135MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

6.7 Band Edge

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a) § 27.53(h)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.	<input checked="" type="checkbox"/>
Test setup	 <p style="text-align: center;">Base Station Spectrum Analyzer EUT</p>		
Procedure	<ul style="list-style-type: none"> - The EUT was connected to Spectrum Analyzer and Base Station via power divider. - The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100. 		
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 II (Part 24E) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	18607	1850	QPSK	-23.258	-13
			16QAM	-22.687	-13
1.4	18900	1910	QPSK	-18.182	-13
			16QAM	-19.347	-13
3	18615	1850	QPSK	-21.017	-13
			16QAM	-20.957	-13
3	19185	1910	QPSK	-22.675	-13
			16QAM	-22.682	-13
5	18625	1850	QPSK	-17.955	-13
			16QAM	-18.514	-13
5	19175	1910	QPSK	-18.487	-13
			16QAM	-17.485	-13
10	18650	1850	QPSK	-22.556	-13
			16QAM	-22.437	-13
10	19150	1910	QPSK	-21.041	-13
			16QAM	-19.493	-13
15	18675	1850	QPSK	-18.459	-13
			16QAM	-15.741	-13
15	19125	1910	QPSK	-18.998	-13
			16QAM	-19.365	-13
20	18700	1850	QPSK	-17.305	-13
			16QAM	-17.513	-13
20	19100	1910	QPSK	-23.052	-13
			16QAM	-22.262	-13

LTE Band IV (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	19957	1709.9	QPSK	-24.473	-13
			16QAM	-24.268	-13
1.4	20393	1755	QPSK	-25.846	-13
			16QAM	-24.103	-13
3	19965	1709.9	QPSK	-22.219	-13
			16QAM	-21.456	-13
3	20385	1755	QPSK	-21.049	-13
			16QAM	-21.786	-13
5	19975	1709.9	QPSK	-16.358	-13
			16QAM	-16.807	-13
5	20375	1755	QPSK	-17.091	-13
			16QAM	-17.546	-13
10	20000	1709.9	QPSK	-21.444	-13
			16QAM	-22.240	-13
10	20350	1755	QPSK	-22.297	-13
			16QAM	-21.428	-13
15	20025	1710	QPSK	-23.500	-13
			16QAM	-23.796	-13
15	20325	1755	QPSK	-21.935	-13
			16QAM	-23.088	-13
20	20050	1710	QPSK	-26.213	-13
			16QAM	-26.116	-13
20	20300	1755	QPSK	-25.813	-13
			16QAM	-26.901	-13

LTE Band XII (Part 27) result

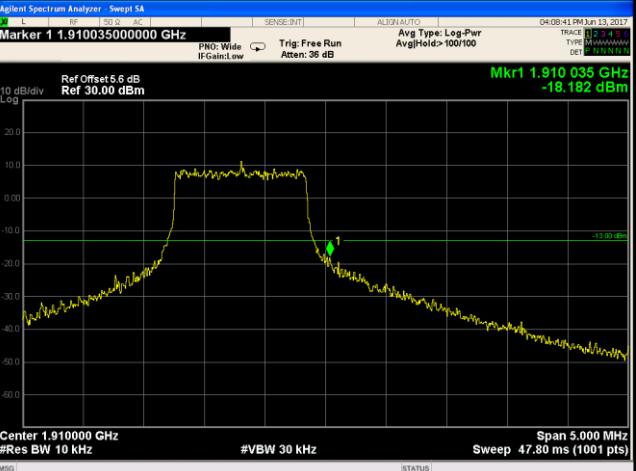
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	23017	699	QPSK	-23.210	-13
			16QAM	-22.526	-13
1.4	23173	716	QPSK	-22.527	-13
			16QAM	-22.648	-13
3	23025	699	QPSK	-18.145	-13
			16QAM	-19.180	-13
3	23165	716	QPSK	-20.575	-13
			16QAM	-20.589	-13
5	23035	699	QPSK	-18.145	-13
			16QAM	-19.180	-13
5	23155	716	QPSK	-20.575	-13
			16QAM	-20.589	-13
10	23060	698	QPSK	-17.713	-13
			16QAM	-20.181	-13
10	23130	716	QPSK	-18.391	-13
			16QAM	-18.821	-13

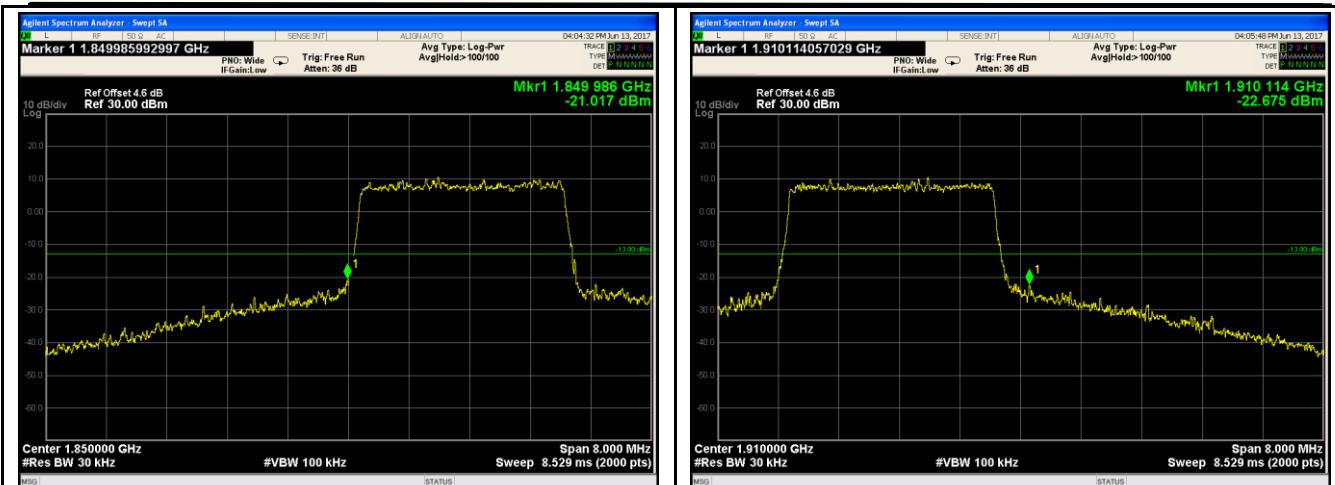
LTE Band XVII (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
5	23755	704	QPSK	-15.488	-13
			16QAM	-16.154	-13
5	23825	716	QPSK	-14.869	-13
			16QAM	-14.993	-13
10	23780	704	QPSK	-18.847	-13
			16QAM	-18.713	-13
10	23800	716	QPSK	-16.752	-13
			16QAM	-17.303	-13

Test Plots

LTE Band II (Part 24E)

 <p>Marker 1 1.849950000000 GHz Mkr1 1.849 950 GHz -23.258 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 Mkr1 1.910 035 GHz -18.182 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 $(12.96/10)=4.5+1.1=5.6\text{dB}$</p>	<p>Note: Offset=Cable loss (4.5) + 10log $(12.89/10)=4.5+1.1=5.6\text{dB}$</p>
 <p>Marker 1 1.849960000000 GHz Mkr1 1.849 960 GHz -22.687 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 1.910050000000 GHz Mkr1 1.910 050 GHz -19.347 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 $(12.93/10)=4.5+1.1=5.6 \text{ dB}$</p>	<p>Note: Offset=Cable loss (4.5) + 10log $(12.99/10)=4.5+1.1=5.6 \text{ dB}$</p>

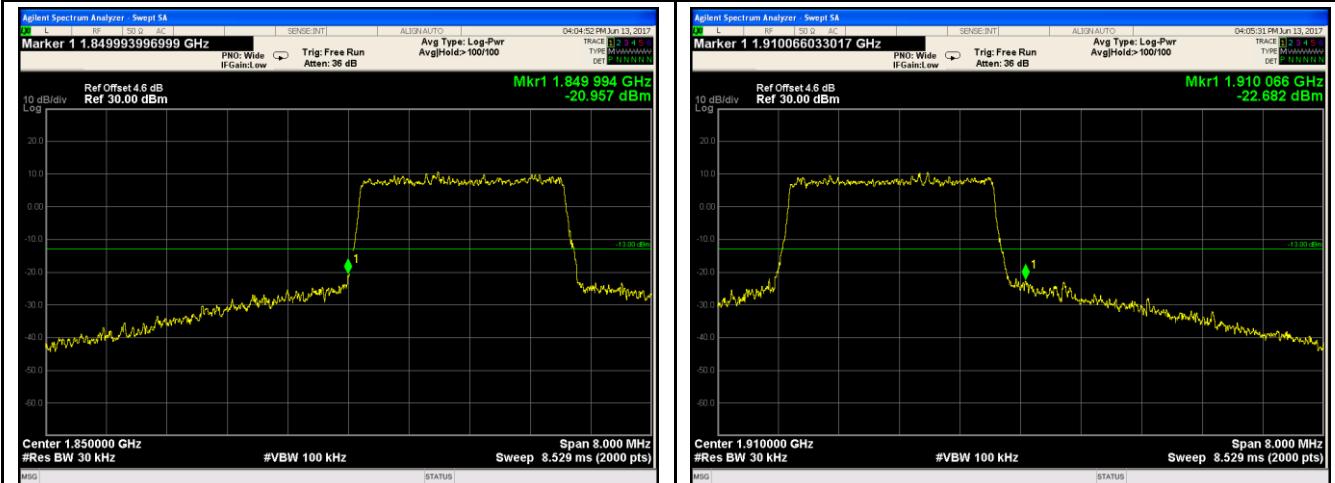


LTE Band II - Low Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.62/30)=4.5+0.1=4.6$ dB

LTE Band II - High Channel QPSK-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.50/30)=4.5+0.1=4.6$ dB



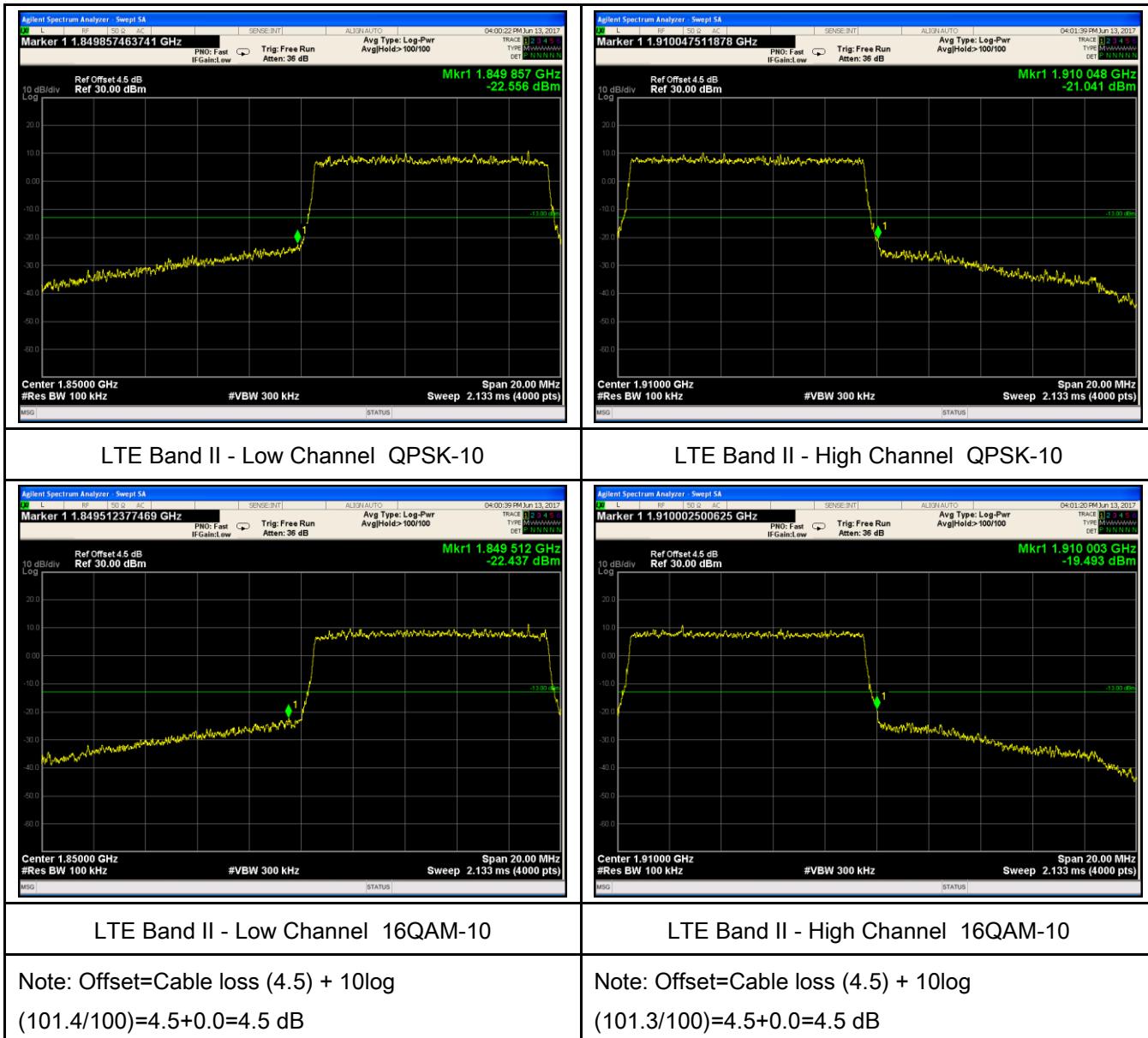
LTE Band II - Low Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.42/30)=4.5+0.1=4.6$ dB

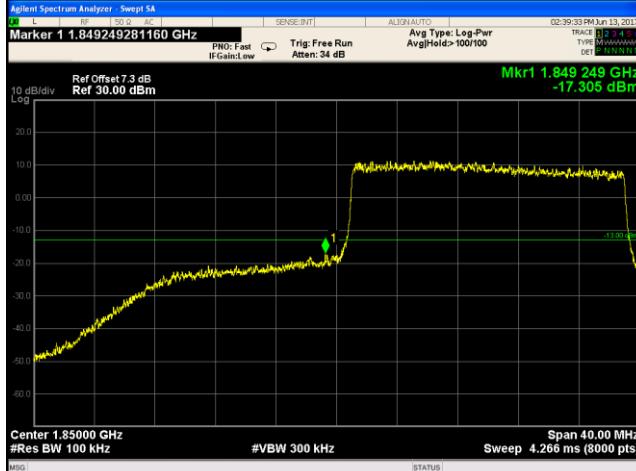
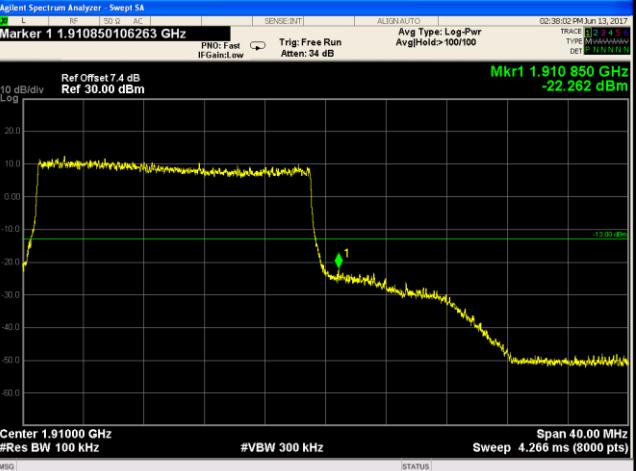
LTE Band II - High Channel 16QAM-3

Note: Offset=Cable loss (4.5) + 10log
 $(30.58/30)=4.5+0.1=4.6$ dB

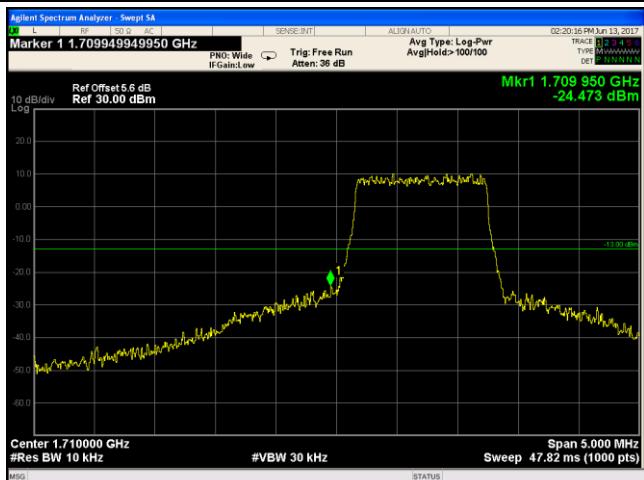
 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Marker 1 1.849992496248 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB</p> <p>Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Ref Offset 5.8 dB Ref 30.00 dBm</p> <p>Mkr1 1.849 992 GHz -17.955 dBm</p> <p>10 dB/div Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 1.850000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz 10.66 ms (2000 pts)</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Marker 1 1.910042521261 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB</p> <p>Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Ref Offset 6.7 dB Ref 30.00 dBm</p> <p>Mkr1 1.910 043 GHz -18.487 dBm</p> <p>10 dB/div Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 1.910000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz 10.66 ms (2000 pts)</p>
<p>LTE Band II - Low Channel QPSK-5</p>	<p>LTE Band II - High Channel QPSK-5</p>
<p>Note: Offset=Cable loss (4.5) + 10log $(50.45/30)=4.5+2.3=6.8$ dB</p>	<p>Note: Offset=Cable loss (4.5) + 10log $(50.15/30)=4.5+2.2=6.7$ dB</p>
 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Marker 1 1.849997498749 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB</p> <p>Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Ref Offset 6.7 dB Ref 30.00 dBm</p> <p>Mkr1 1.849 997 GHz -18.514 dBm</p> <p>10 dB/div Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 1.850000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz 10.66 ms (2000 pts)</p>	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Marker 1 1.91006003002 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB</p> <p>Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Ref Offset 6.8 dB Ref 30.00 dBm</p> <p>Mkr1 1.910 006 GHz -17.485 dBm</p> <p>10 dB/div Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 1.910000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.00 MHz 10.66 ms (2000 pts)</p>
<p>LTE Band II - Low Channel 16QAM-5</p>	<p>LTE Band II - High Channel 16QAM-5</p>
<p>Note: Offset=Cable loss (4.5) + 10log $(50.32/30)=4.5+2.2=6.7$ dB</p>	<p>Note: Offset=Cable loss (4.5) + 10log $(50.68/30)=4.5+2.3=6.8$ dB</p>



 <p>Marker 1 1.849564476810 GHz PN0: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.849 564 GHz -18.459 dBm</p> <p>10 dB/div Ref Offset 6.2 dB Ref 30.00 dBm Log</p> <p>Center 1.85000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.000 MHz Sweep 3.200 ms (8000 pts)</p>	 <p>Marker 1 1.912026504876 GHz PN0: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.912 027 GHz -18.998 dBm</p> <p>10 dB/div Ref Offset 6.2 dB Ref 30.00 dBm Log</p> <p>Center 1.91000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.000 MHz Sweep 3.200 ms (8000 pts)</p>
<p>LTE Band II - Low Channel QPSK-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(148/100)=4.5+1.7=6.2$ dB</p>	<p>LTE Band II - High Channel QPSK-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(149.2/100)=4.5+1.7=6.2$ dB</p>
 <p>Marker 1 1.849285535692 GHz PN0: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.849 286 GHz -15.741 dBm</p> <p>10 dB/div Ref Offset 6.2 dB Ref 30.00 dBm Log</p> <p>Center 1.85000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.000 MHz Sweep 3.200 ms (8000 pts)</p>	 <p>Marker 1 1.911763972059 GHz PN0: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.911 764 GHz -19.365 dBm</p> <p>10 dB/div Ref Offset 6.2 dB Ref 30.00 dBm Log</p> <p>Center 1.91000 GHz #Res BW 100 kHz #VBW 300 kHz Span 3.000 MHz Sweep 3.200 ms (8000 pts)</p>
<p>LTE Band II - Low Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(147.1/100)=4.5+1.7=6.2$ dB</p>	<p>LTE Band II - High Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(149.4/100)=4.5+1.7=6.2$ dB</p>

 <p>Marker 1 1.849249281160 GHz PNL: Fast IFGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100 Ref Offset 7.3 dB Ref 30.00 dBm 10 dB/div Log 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 Center 1.85000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts) MSG [STATUS]</p>	 <p>Marker 1 1.911180147518 GHz PNL: Fast IFGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100 Ref Offset 7.4 dB Ref 30.00 dBm 10 dB/div Log 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 Center 1.91000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts) MSG [STATUS]</p>
<p>LTE Band II - Low Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log $(192.0/100)=4.5+2.8=7.3$ dB</p>	<p>LTE Band II - High Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log $(193.7/100)=4.5+2.9=7.4$ dB</p>
 <p>Marker 1 1.849939367421 GHz PNL: Fast IFGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100 Ref Offset 7.4 dB Ref 30.00 dBm 10 dB/div Log 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 Center 1.85000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts) MSG [STATUS]</br></br></p>	 <p>Marker 1 1.910850106263 GHz PNL: Fast IFGainLow Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100 Ref Offset 7.4 dB Ref 30.00 dBm 10 dB/div Log 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 Center 1.91000 GHz #Res BW 100 kHz #VBW 300 kHz Span 4.00 MHz Sweep 4.266 ms (8000 pts) MSG [STATUS]</p>
<p>LTE Band II - Low Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log $(192.8/100)=4.5+2.9=7.4$ dB</p>	<p>LTE Band II - High Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log $(193.0/100)=4.5+2.9=7.4$ dB</p>

LTE Band IV (Part 27)

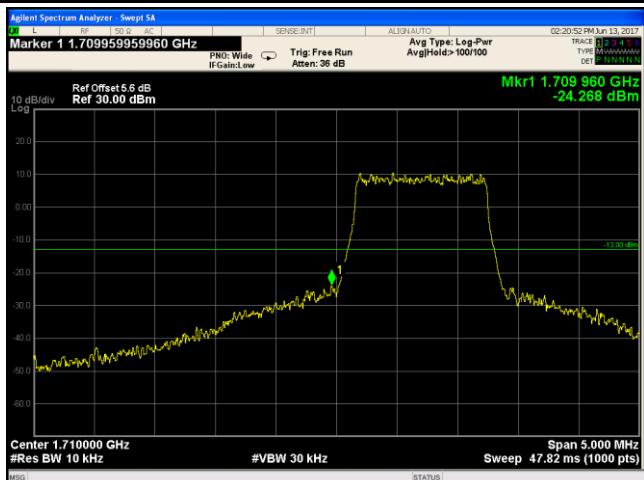


LTE Band IV - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.98/10)=4.5+1.1=5.6$ dB

LTE Band IV - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
 $(12.77/10)=4.5+1.1=5.6$ dB

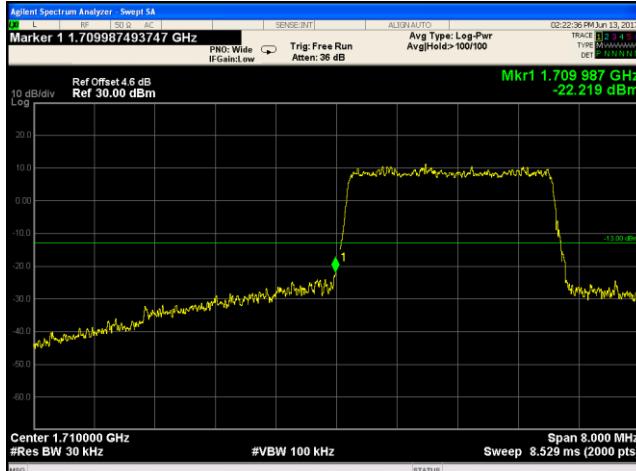
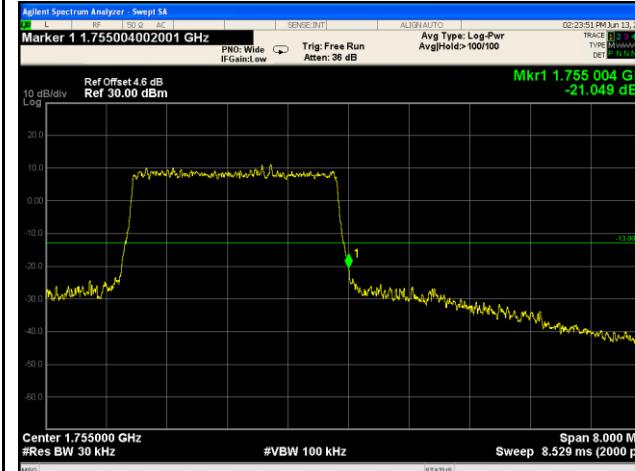
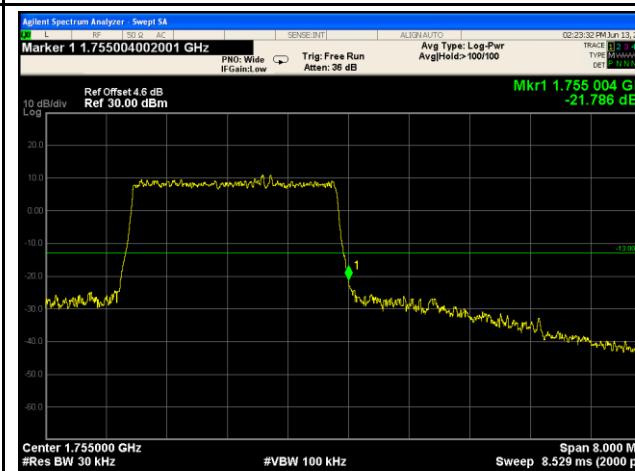


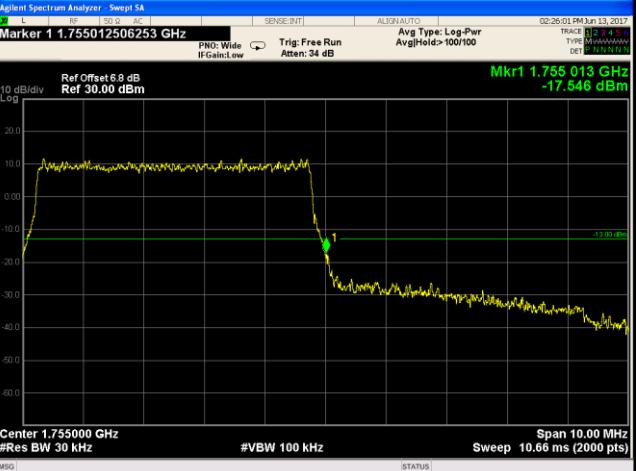
LTE Band IV - Low Channel 16QAM-1.4

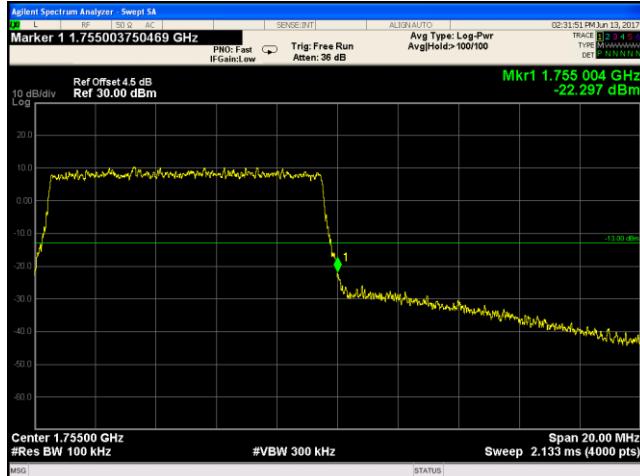
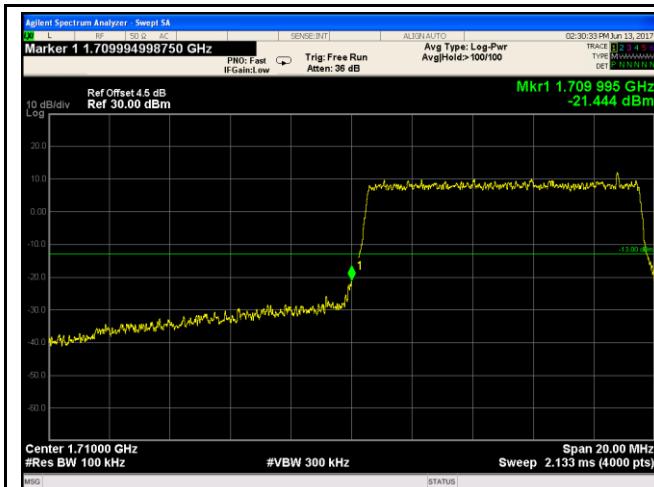
Note: Offset=Cable loss (4.5) + 10log
 $(12.87/10)=4.5+1.1=5.6$ dB

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

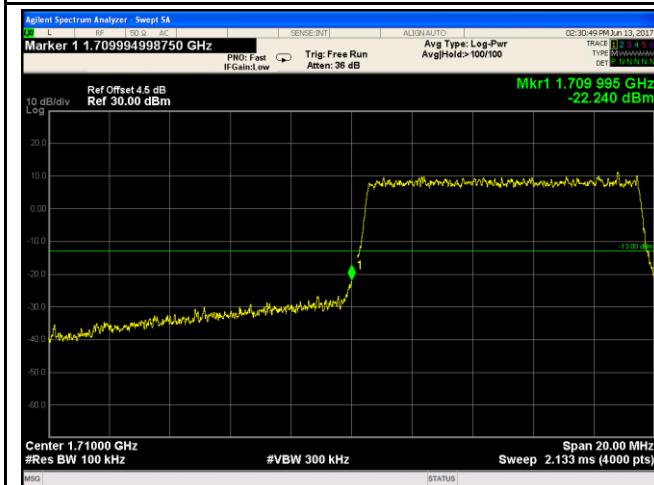
 <p>Marker 1.709987493747 GHz PNO: Wide IFGain:Low Trig: Free Run AvgType: Log-Pwr AvgHold: >100/100 Atten: 36 dB</p> <p>Mkr1 1.709 987 GHz -22.219 dBm</p> <p>Ref Offset 4.6 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.710000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 8.000 MHz Span 8.529 ms (2000 pts)</p>	 <p>Marker 1.755004002001 GHz PNO: Wide IFGain:Low Trig: Free Run AvgType: Log-Pwr AvgHold: >100/100 Atten: 36 dB</p> <p>Mkr1 1.755 004 GHz -21.049 dBm</p> <p>Ref Offset 4.6 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.755000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 8.000 MHz Span 8.529 ms (2000 pts)</p>
<p>LTE Band IV - Low Channel QPSK-3</p> <p>Note: Offset=Cable loss (4.5) + 10log $(30.74/30)=4.5+0.1=4.6$ dB</p>	<p>LTE Band IV - High Channel QPSK-3</p> <p>Note: Offset=Cable loss (4.5) + 10log $(30.51/30)=4.5+0.1=4.6$ dB</p>
 <p>Marker 1.709995497749 GHz PNO: Wide IFGain:Low Trig: Free Run AvgType: Log-Pwr AvgHold: >100/100 Atten: 36 dB</p> <p>Mkr1 1.709 995 GHz -21.456 dBm</p> <p>Ref Offset 4.6 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.710000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 8.000 MHz Span 8.529 ms (2000 pts)</p>	 <p>Marker 1.755004002001 GHz PNO: Wide IFGain:Low Trig: Free Run AvgType: Log-Pwr AvgHold: >100/100 Atten: 36 dB</p> <p>Mkr1 1.755 004 GHz -21.786 dBm</p> <p>Ref Offset 4.6 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.755000 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 8.000 MHz Span 8.529 ms (2000 pts)</p>
<p>LTE Band IV - Low Channel 16QAM-3</p> <p>Note: Offset=Cable loss (4.5) + 10log $(30.53/30)=4.5+0.1=4.6$ dB</p>	<p>LTE Band IV - High Channel 16QAM-3</p> <p>Note: Offset=Cable loss (4.5) + 10log $(30.45/30)=4.5+0.1=4.6$ dB</p>

 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 1.709977488744 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Ref Offset 5.8 dB Ref 30.00 dBm</p> <p>Mkr1 1.709 977 GHz -16.358 dBm</p> <p>10 dB/div Log</p> <p>Center 1.710000 GHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>	 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 1.755007503752 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Ref Offset 5.8 dB Ref 30.00 dBm</p> <p>Mkr1 1.755 008 GHz -17.091 dBm</p> <p>10 dB/div Log</p> <p>Center 1.755000 GHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band IV - Low Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.51/30)=4.5+2.3=6.8$ dB</p>	<p>LTE Band IV - High Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.50/30)=4.5+2.3=6.8$ dB</p>
 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 1.709984994998 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Ref Offset 5.7 dB Ref 30.00 dBm</p> <p>Mkr1 1.709 985 GHz -16.807 dBm</p> <p>10 dB/div Log</p> <p>Center 1.710000 GHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>	 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 1.755012506253 GHz</p> <p>PNG: Wide IF-Gain:Low Trig: Free Run Avg Type: Log-Pwr AvgHold>100/100</p> <p>Ref Offset 6.8 dB Ref 30.00 dBm</p> <p>Mkr1 1.755 013 GHz -17.546 dBm</p> <p>10 dB/div Log</p> <p>Center 1.755000 GHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band IV - Low Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.01/30)=4.5+2.2=6.7$ dB</p>	<p>LTE Band IV - High Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.89/30)=4.5+2.3=6.8$ dB</p>



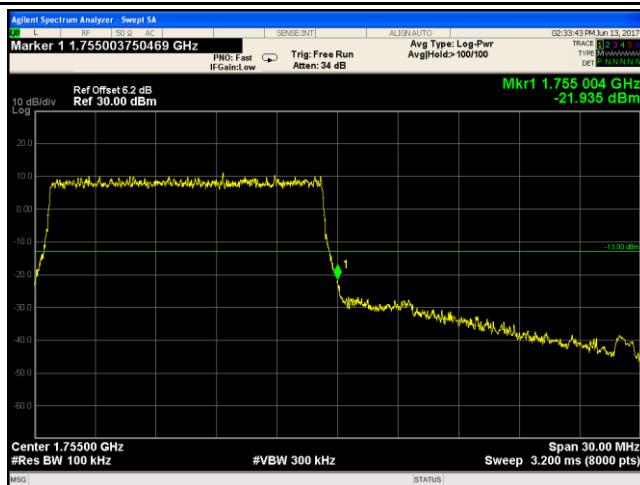
LTE Band IV - Low Channel QPSK-10

LTE Band IV - High Channel QPSK-10



LTE Band IV - Low Channel 16QAM-10

LTE Band IV - High Channel 16QAM-10



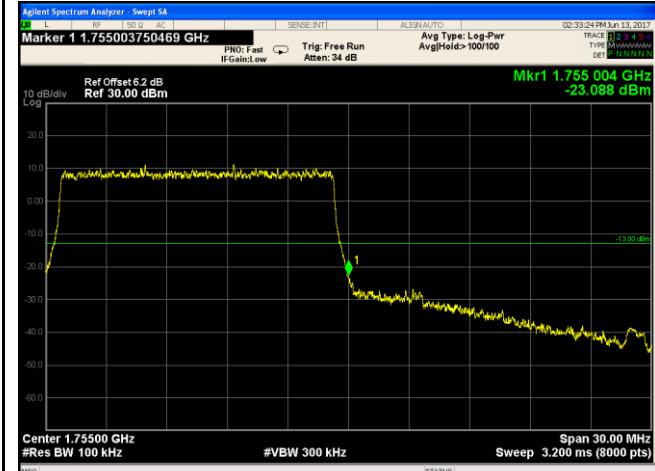
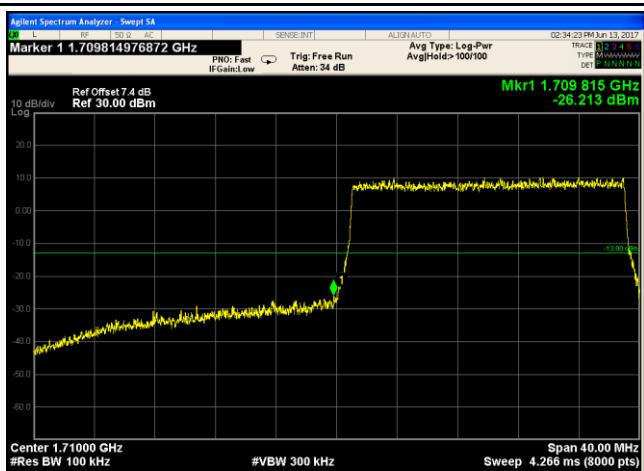
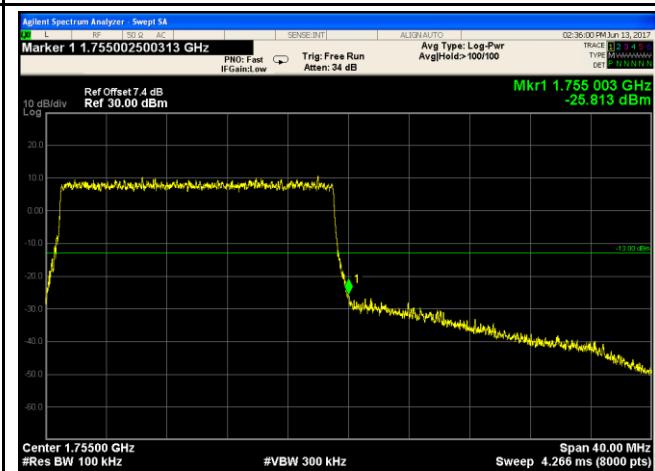
LTE Band IV - Low Channel QPSK-15

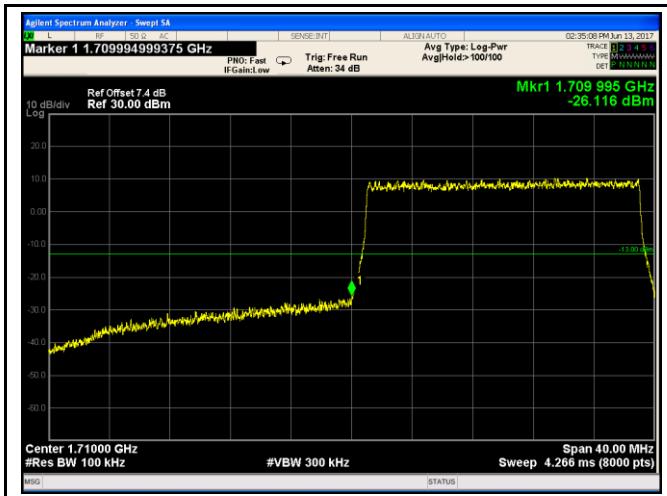
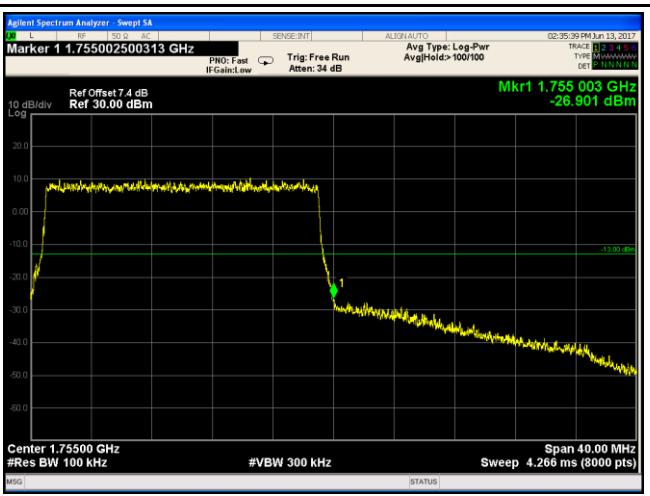
LTE Band IV - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log
 $(148.7/100)=4.5+1.7=6.2$ dB

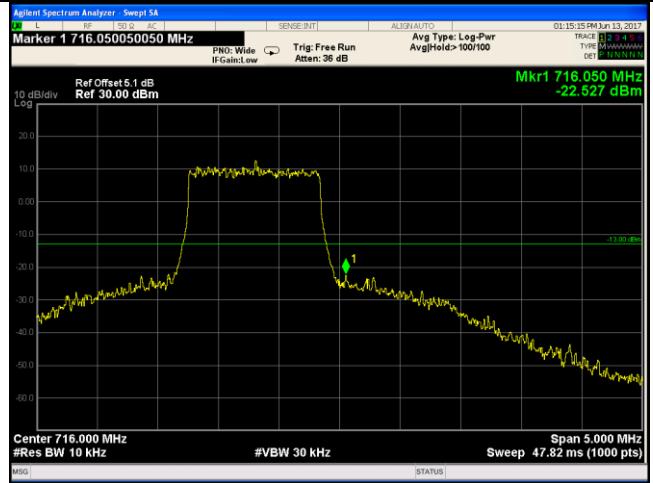
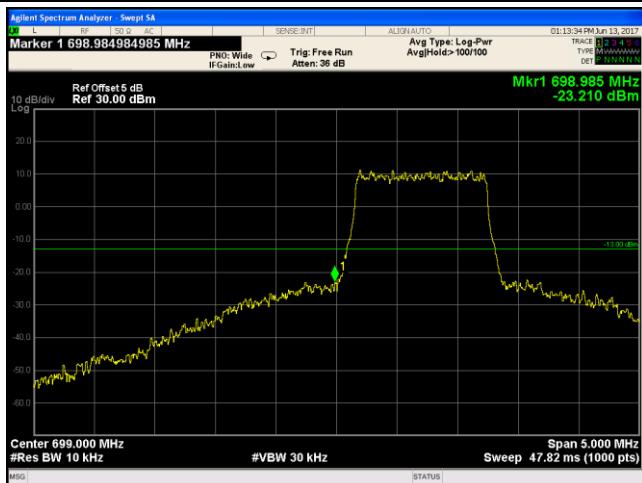
Note: Offset=Cable loss (4.5) + 10log
 $(148.6/100)=4.5+1.7=6.2$ dB

Test Report	17070341-FCC-R5-V1
Page	108 of 146

 <p>Marker 1 1.709994999375 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.709 995 GHz -23.796 dBm</p> <p>Ref Offset 6.2 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.71000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.200 ms (8000 pts)</p>	 <p>Marker 1 1.755003750469 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.755 004 GHz -23.088 dBm</p> <p>Ref Offset 6.2 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.75500 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.200 ms (8000 pts)</p>
<p>LTE Band IV - Low Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(147.4/100)=4.5+1.7=6.2$ dB</p>	<p>LTE Band IV - High Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log $(146.5/100)=4.5+1.7=6.2$ dB</p>
 <p>Marker 1 1.709814976872 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.709 815 GHz -26.213 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.71000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>	 <p>Marker 1 1.755002500313 GHz PNO: Fast IFGain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.755 003 GHz -25.813 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 1.75500 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>
<p>LTE Band IV - Low Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log $(194.3/100)=4.5+2.9=7.4$ dB</p>	<p>LTE Band IV - High Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log $(192.8/100)=4.5+2.9=7.4$ dB</p>

 <p>Marker 1 1.709994999375 GHz PN0: Fast IFGainLow Trig: Free Run AvgType: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.709 995 GHz -26.116 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 1.71000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>	 <p>Marker 1 1.755002500313 GHz PN0: Fast IFGainLow Trig: Free Run AvgType: Log-Pwr AvgHold>100/100</p> <p>Mkr1 1.755 003 GHz -26.901 dBm</p> <p>Ref Offset 7.4 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 1.75500 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.266 ms (8000 pts)</p>
LTE Band IV - Low Channel 16QAM-20	LTE Band IV - High Channel 16QAM-20
Note: Offset=Cable loss (4.5) + 10log (195.2/100)=4.5+2.9=7.4dB	Note: Offset=Cable loss (4.5) + 10log (193.1/100)=4.5+2.9=7.4 dB

LTE Band XII (Part 27)

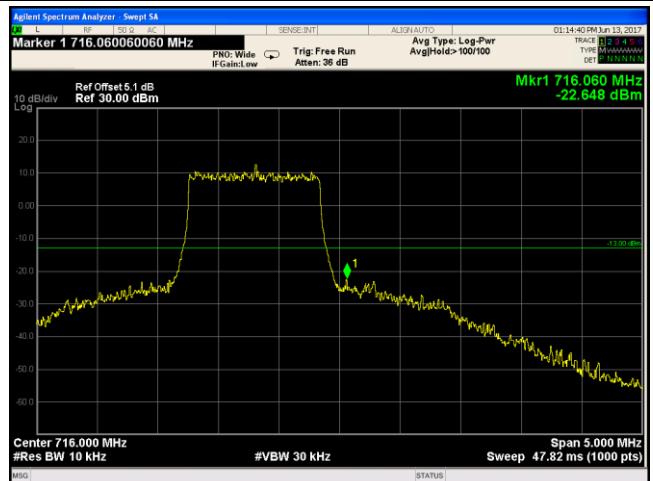
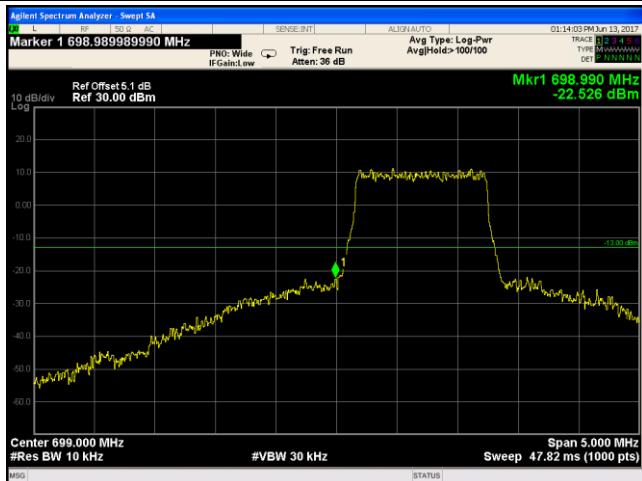


LTE Band XII - Low Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(12.72/10)=4.0+1.0=5.0 dB

LTE Band XII - High Channel QPSK-1.4

Note: Offset=Cable loss (4.5) + 10log
(12.86/10)=4.0+1.1=5.1 dB

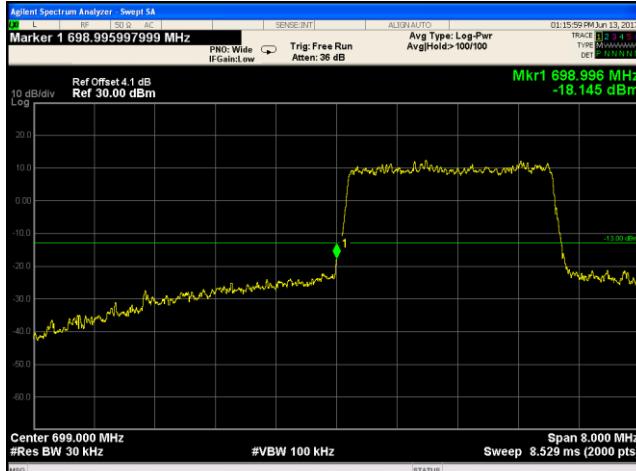
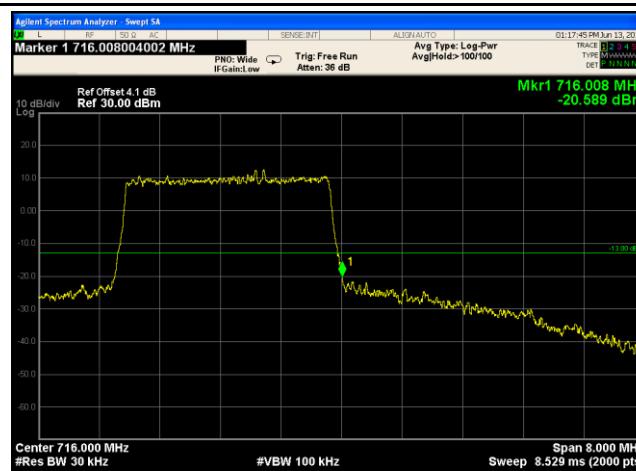


LTE Band XII - Low Channel 16QAM-1.4

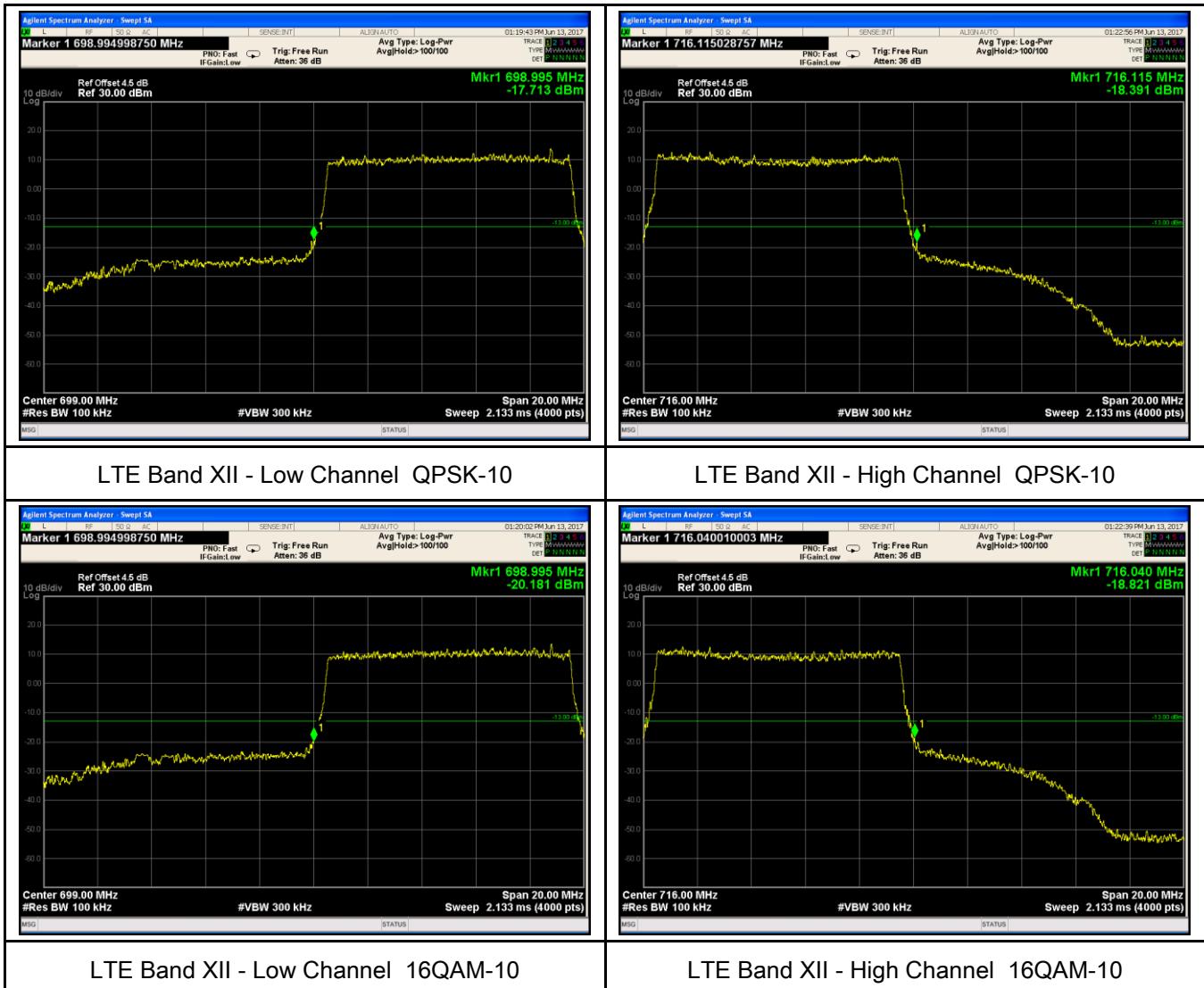
Note: Offset=Cable loss (4.5) + 10log
(12.75/10)=4.0+1.1=5.1 dB

LTE Band XII - High Channel 16QAM-1.4

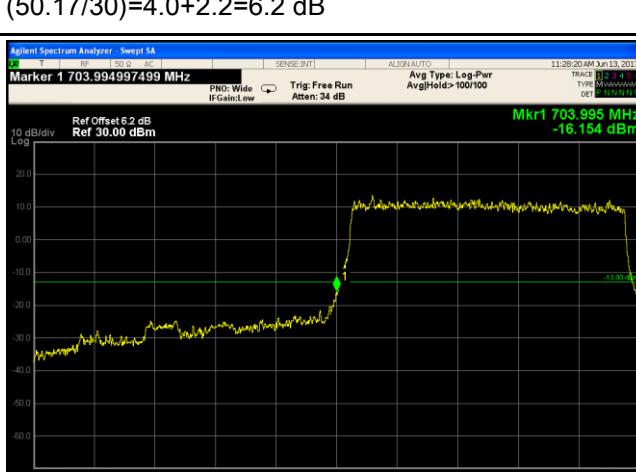
Note: Offset=Cable loss (4.5) + 10log
(12.91/10)=4.0+1.1=5.1 dB

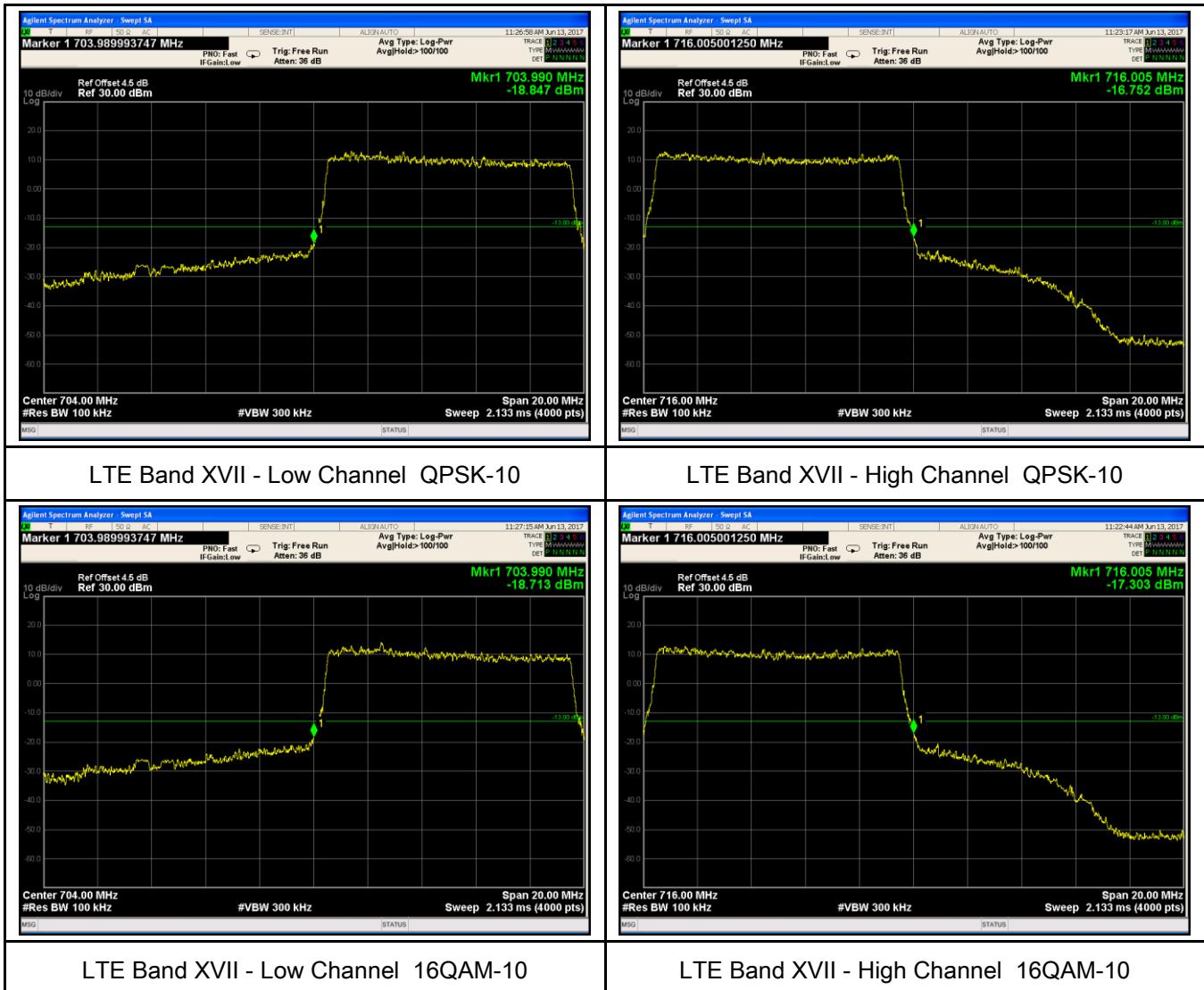
 <p>Marker 1 698.995997999 MHz Mkr1 698.996 MHz -18.145 dBm</p> <p>Center 699.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>	 <p>Marker 1 716.004002001 MHz Mkr1 716.004 MHz -20.575 dBm</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>
<p>LTE Band XII - Low Channel QPSK-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.57/30)=4.0+0.1=4.1 dB</p>	<p>LTE Band XII - High Channel QPSK-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.51/30)=4.0+0.1=4.1 dB</p>
 <p>Marker 1 698.991395999 MHz Mkr1 698.992 MHz -19.180 dBm</p> <p>Center 699.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>	 <p>Marker 1 716.008004002 MHz Mkr1 716.008 MHz -20.589 dBm</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 8.000 MHz Sweep 8.529 ms (2000 pts)</p>
<p>LTE Band XII - Low Channel 16QAM-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.13/30)=4.0+0.0=4.0 dB</p>	<p>LTE Band XII - High Channel 16QAM-3</p> <p>Note: Offset=Cable loss (4.5) + 10log (30.61/30)=4.0+0.1=4.1 dB</p>

 <p>Marker 1 698.987494372 MHz PNO: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 698.987 MHz -17.534 dBm</p> <p>10 dB/div Ref Offset 5.3 dB Ref 30.00 dBm</p> <p>Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 699.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>	 <p>Marker 1 716.005002501 MHz PNO: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 716.005 MHz -17.057 dBm</p> <p>10 dB/div Ref Offset 5.3 dB Ref 30.00 dBm</p> <p>Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band XII - Low Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.37/30)=4.0+2.3=6.3$ dB</p>	<p>LTE Band XII - High Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.47/30)=4.0+2.3=6.3$ dB</p>
 <p>Marker 1 698.997499375 MHz PNO: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 698.997 MHz -16.644 dBm</p> <p>10 dB/div Ref Offset 5.3 dB Ref 30.00 dBm</p> <p>Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 699.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>	 <p>Marker 1 716.005002501 MHz PNO: Wide IF-Gain:Low Trig: Free Run Atten: 34 dB Avg Type: Log-Pwr AvgHold>100/100</p> <p>Mkr1 716.005 MHz -16.843 dBm</p> <p>10 dB/div Ref Offset 5.3 dB Ref 30.00 dBm</p> <p>Log</p> <p>20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Span 10.00 MHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band XII - Low Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.40/30)=4.0+2.3=6.3$ dB</p>	<p>LTE Band XII - High Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.5) + 10log $(50.61/30)=4.0+2.3=6.3$ dB</p>



LTE Band XVII (Part 27)

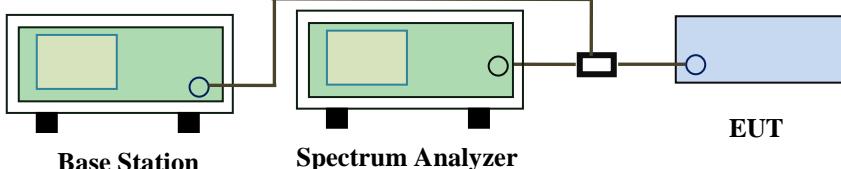
 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 703.994997499 MHz PNO: Wide IF-Gain:Low Trig: Free Run Aten: 34 dB Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Mkr1 703.995 MHz -15.488 dBm</p> <p>Ref Offset 6.2 dB Ref 30.00 dBm</p> <p>Center 704.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.66 ms (2000 pts)</p>	 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 716.003001501 MHz PNO: Wide IF-Gain:Low Trig: Free Run Aten: 34 dB Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Mkr1 716.003 MHz -14.869 dBm</p> <p>Ref Offset 6.3 dB Ref 30.00 dBm</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band XVII - Low Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.0) + 10log $(50.17/30)=4.0+2.2=6.2 \text{ dB}$</p>	<p>LTE Band XVII - High Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.0) + 10log $(50.88/30)=4.0+2.3=6.3 \text{ dB}$</p>
 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 703.994997499 MHz PNO: Wide IF-Gain:Low Trig: Free Run Aten: 34 dB Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Mkr1 703.995 MHz -16.154 dBm</p> <p>Ref Offset 6.2 dB Ref 30.00 dBm</p> <p>Center 704.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.66 ms (2000 pts)</p>	 <p>Agilent Spectrum Analyzer - Swept SA Marker 1 716.003001501 MHz PNO: Wide IF-Gain:Low Trig: Free Run Aten: 34 dB Avg Type: Log-Pwr Avg Hold>100/100</p> <p>Mkr1 716.003 MHz -14.993 dBm</p> <p>Ref Offset 6.3 dB Ref 30.00 dBm</p> <p>Center 716.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 10.66 ms (2000 pts)</p>
<p>LTE Band XVII - Low Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.0) + 10log $(50.04/30)=4.0+2.2=6.2 \text{ dB}$</p>	<p>LTE Band XVII - High Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.0) + 10log $(50.88/30)=4.0+2.3=6.3 \text{ dB}$</p>



6.8 Band Edge 27.53(m)

Temperature	22 °C
Relative Humidity	55%
Atmospheric Pressure	1013mbar
Test date :	June 13, 2017
Tested By :	Loren Luo

Requirement(s):

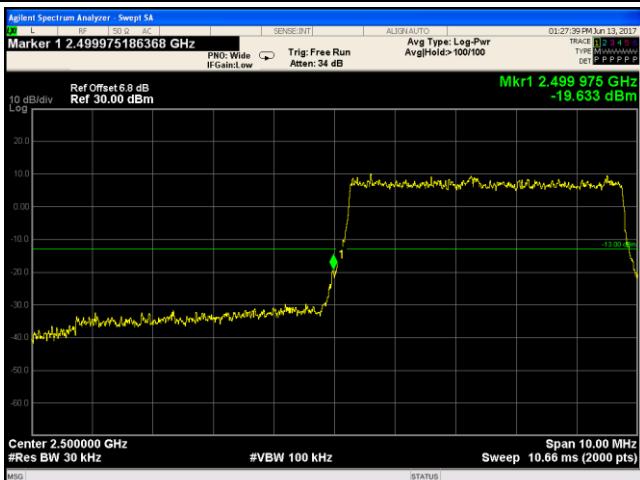
Spec	Requirement	Applicable
§27.53(m)	<p>According to FCC 27.53(m)(4) specified that power of any emmission ouutside of the channel edge must be attenuated below the transmitting power(P) by a factor shall be not less than $43+10\log(P)$dB at the channel edge, the limit of emission equal to -13dBm.</p> <p>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 frenqency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.</p>	<input checked="" type="checkbox"/>
Test Setup	 <p>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	-19.633	-13
			16QAM	-18.986	-13
5	21425	2570	QPSK	-22.369	-13
			16QAM	-21.875	-13
10	20800	2500	QPSK	-22.928	-13
			16QAM	-22.573	-13
10	21400	2570	QPSK	-23.529	-13
			16QAM	-22.758	-13
15	20825	2500	QPSK	-25.278	-13
			16QAM	-26.410	-13
15	21400	2570	QPSK	-25.853	-13
			16QAM	-24.567	-13
20	20850	2500	QPSK	-26.653	-13
			16QAM	-26.314	-13
20	21350	2571	QPSK	-29.733	-13
			16QAM	-29.933	-13

LTE Band VII (Part 27)

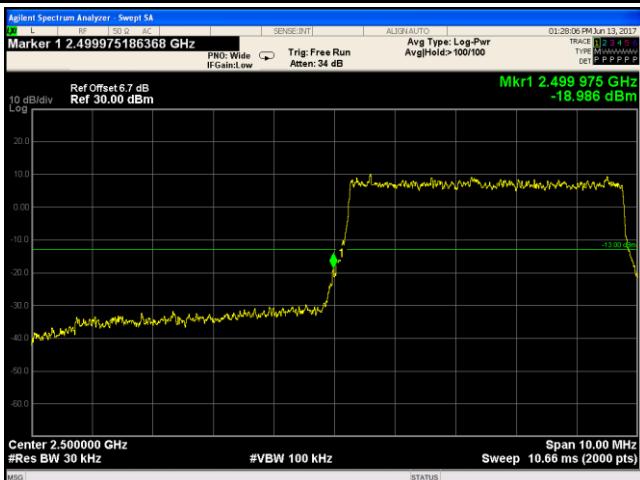


LTE Band VII - Low Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(50.94/30)=4.5+2.3=6.8 dB

LTE Band VII - High Channel QPSK-5

Note: Offset=Cable loss (4.5) + 10log
(50.46/30)=4.5+2.3=6.8 dB



LTE Band VII - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
(50.21/30)=4.5+2.2=6.7 dB

LTE Band VII - High Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log
(50.36/30)=4.5+2.2=6.7 dB