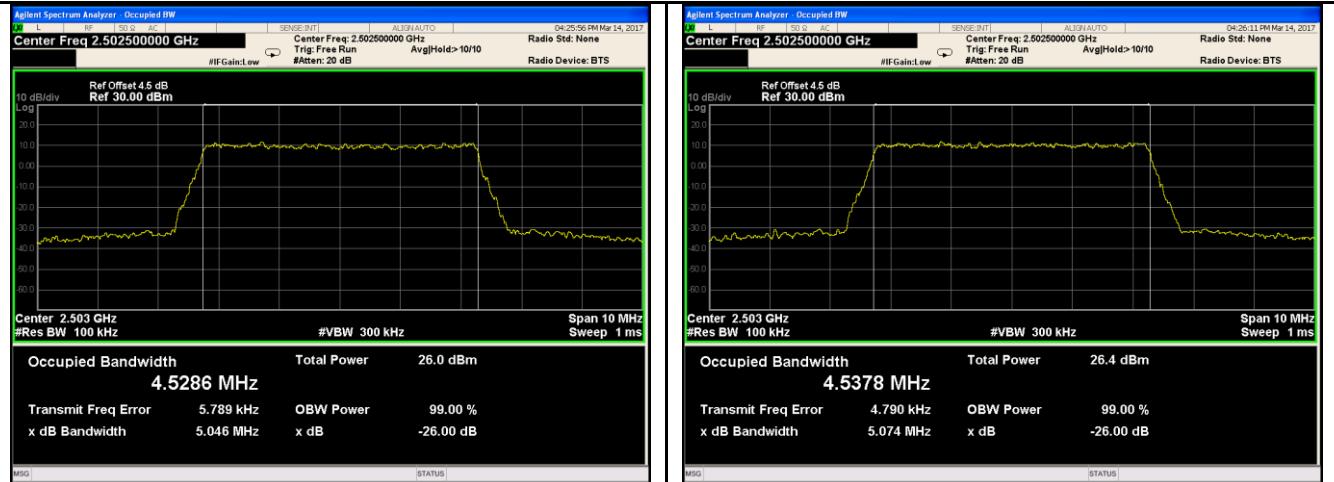
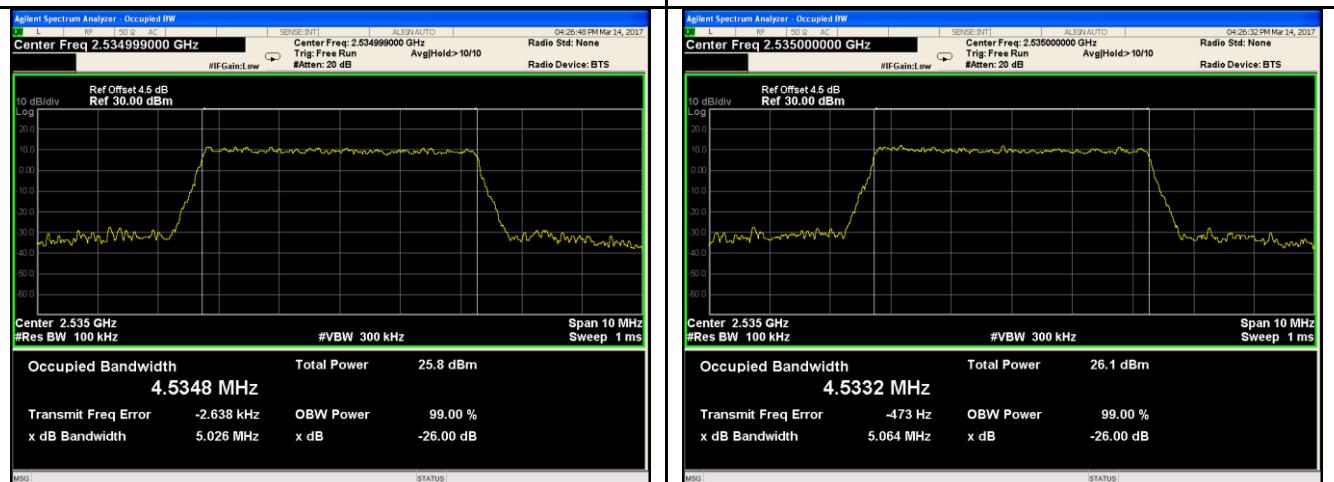


## LTE band VII (Part 27)



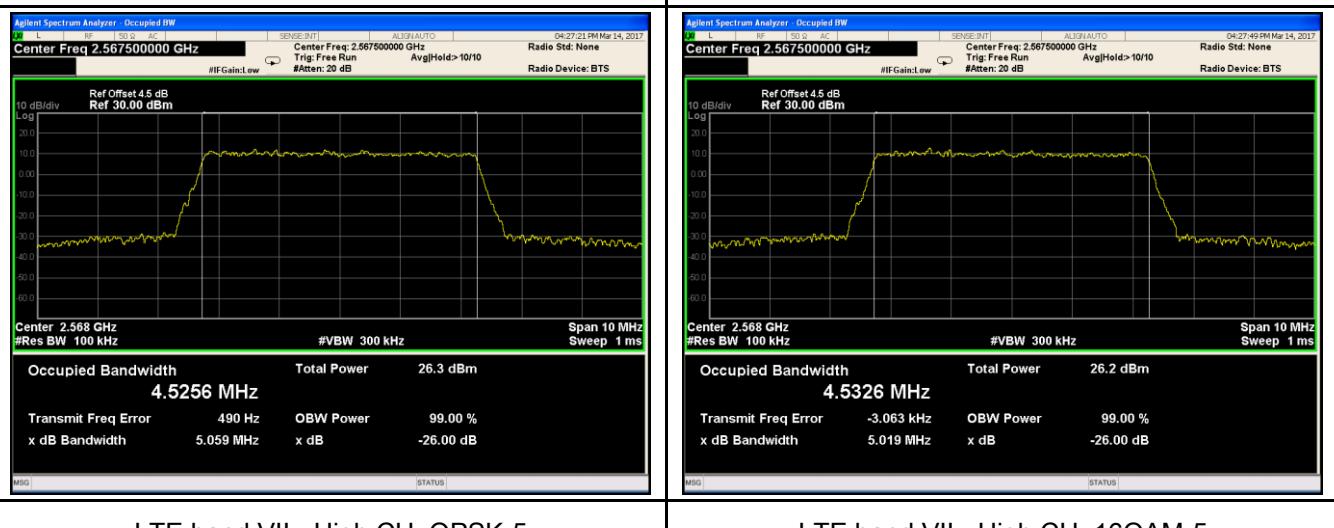
LTE band VII - Low CH QPSK-5

LTE band VII - Low CH 16QAM-5



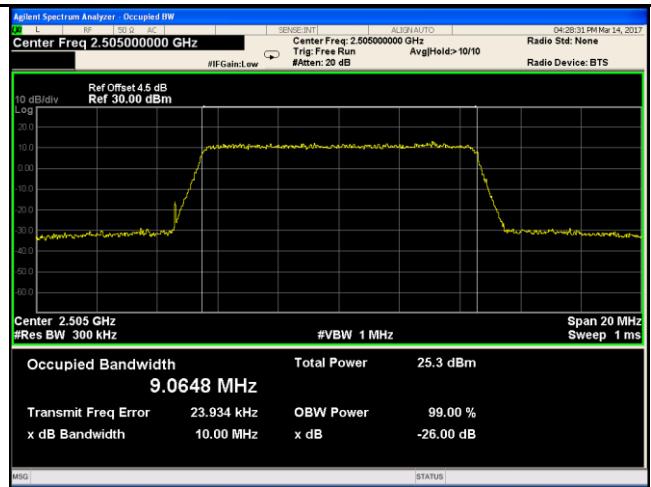
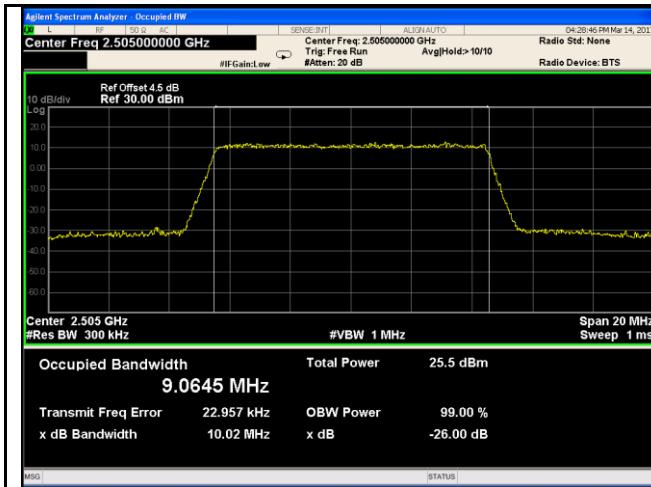
LTE band VII - Middle CH QPSK-5

LTE band VII - Middle CH 16QAM-5

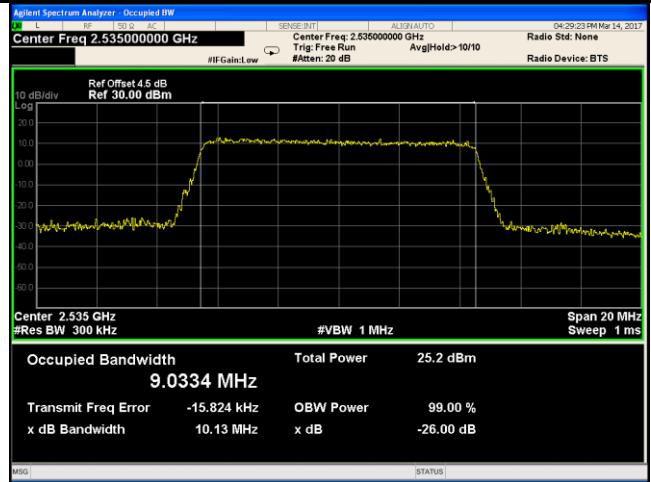


LTE band VII - High CH QPSK-5

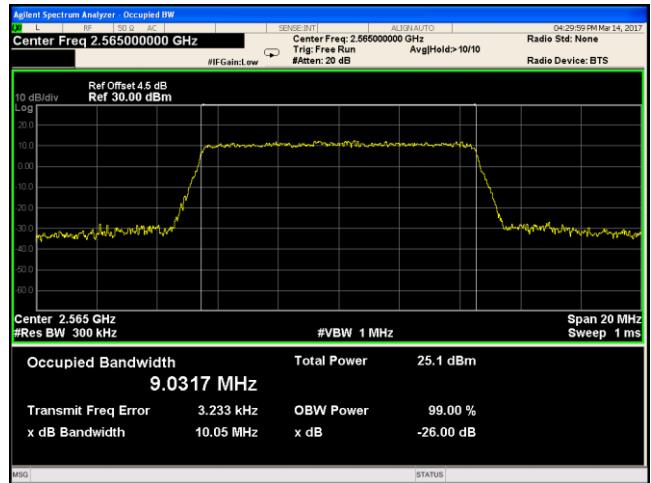
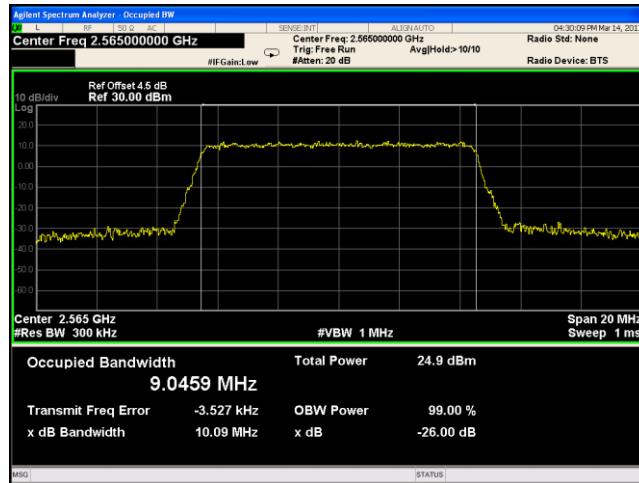
LTE band VII - High CH 16QAM-5



### LTE band VII - Low CH QPSK-10

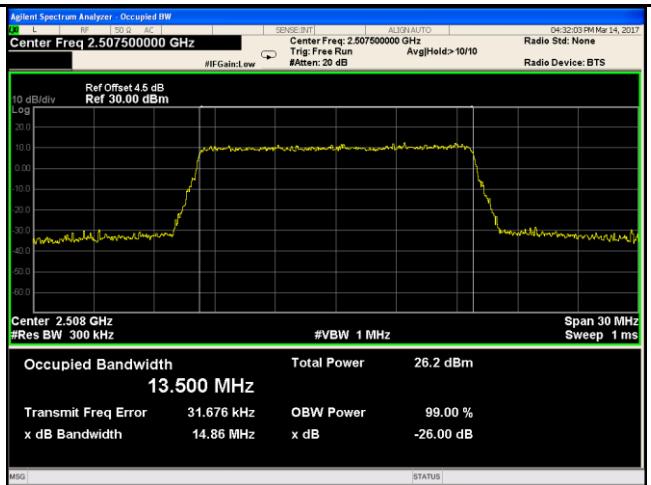


### LTE band VII - Middle CH QPSK-10

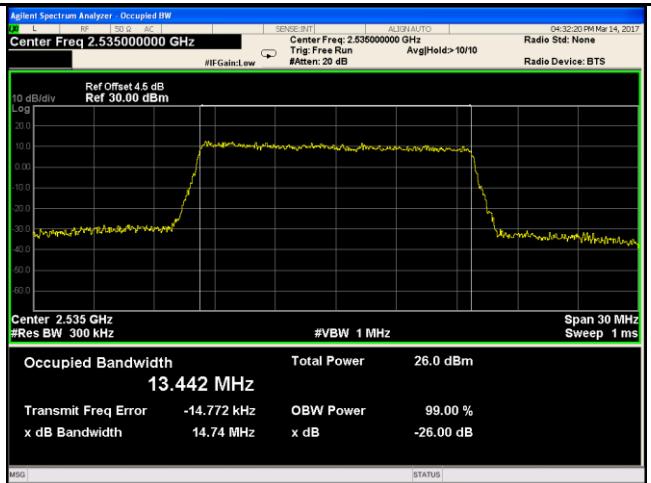
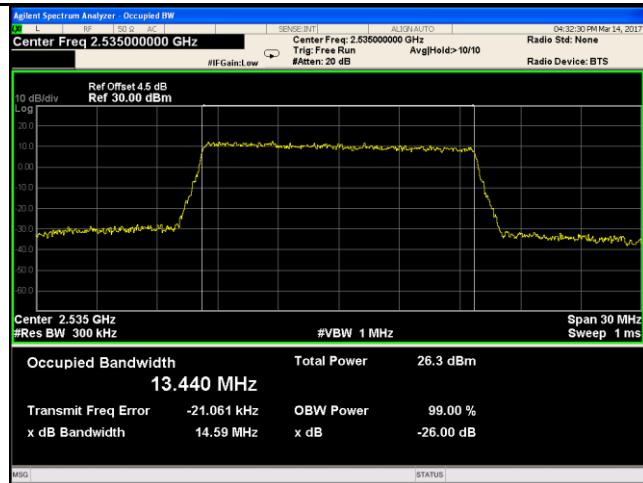


### LTE band VII - High CH QPSK-10

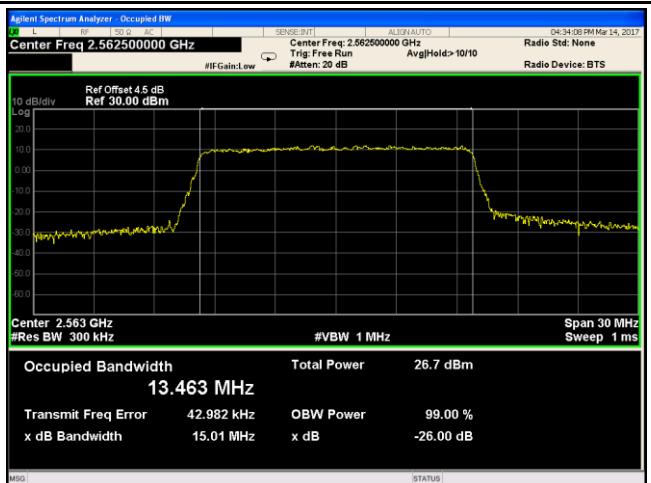
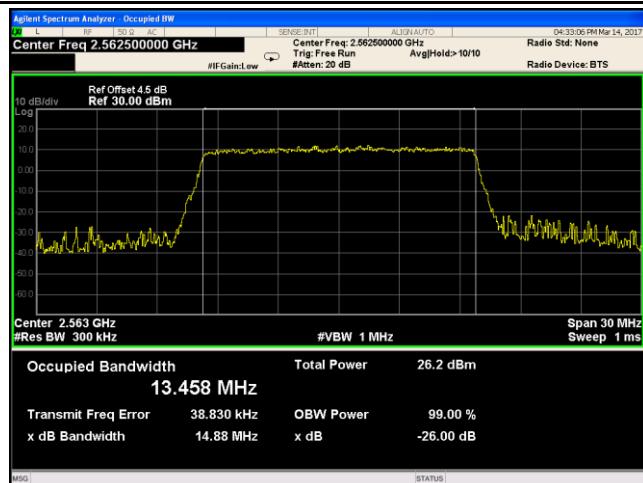
### LTE band VII - High CH 16QAM-10



### LTE band VII - Low CH QPSK-15

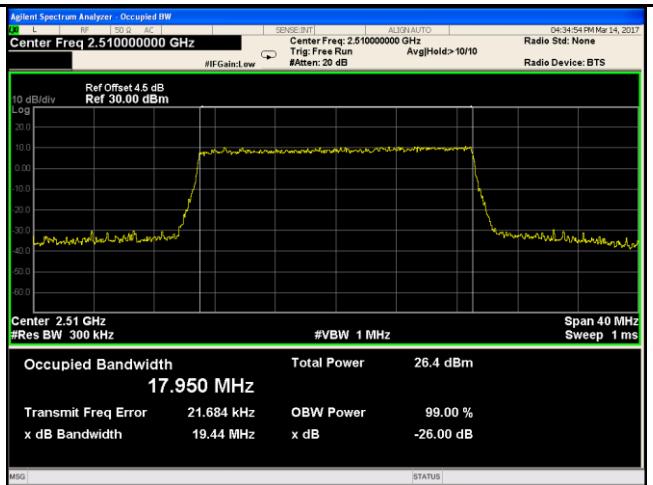
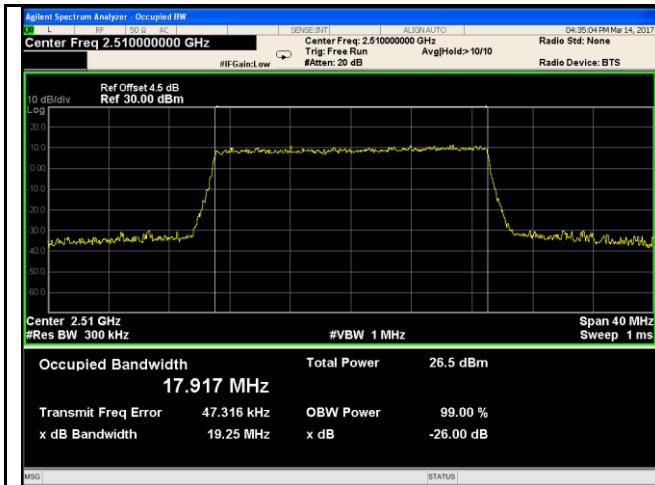


### LTE band VII - Middle CH QPSK-15

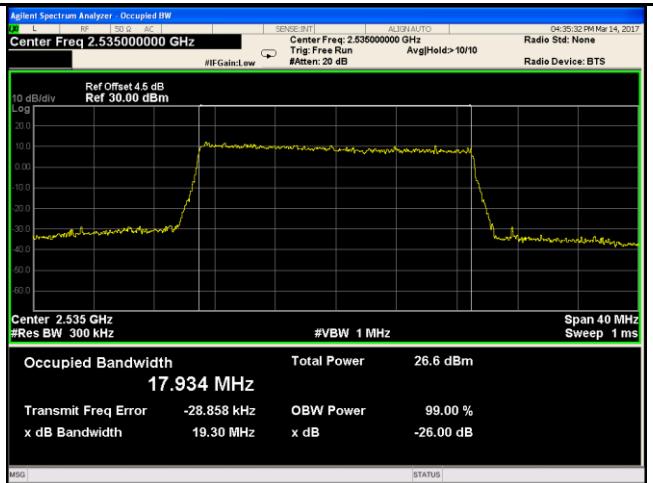
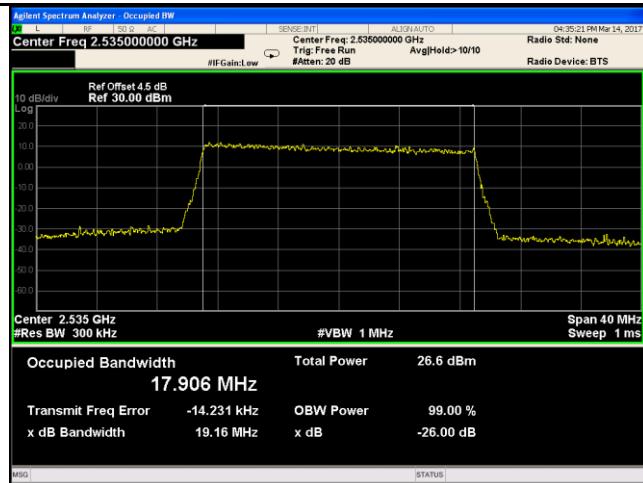


### LTE band VII - High CH QPSK-15

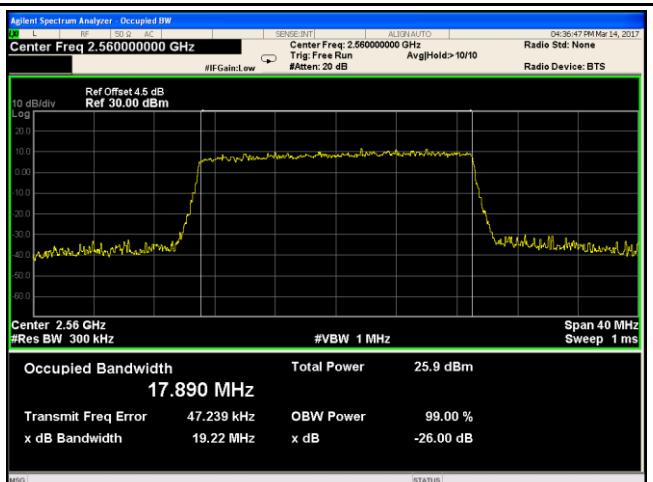
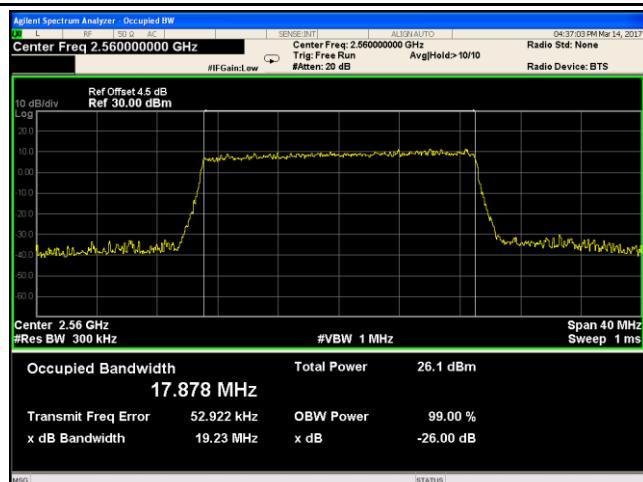
### LTE band VII - High CH 16QAM-15



### LTE band VII - Low CH QPSK-20



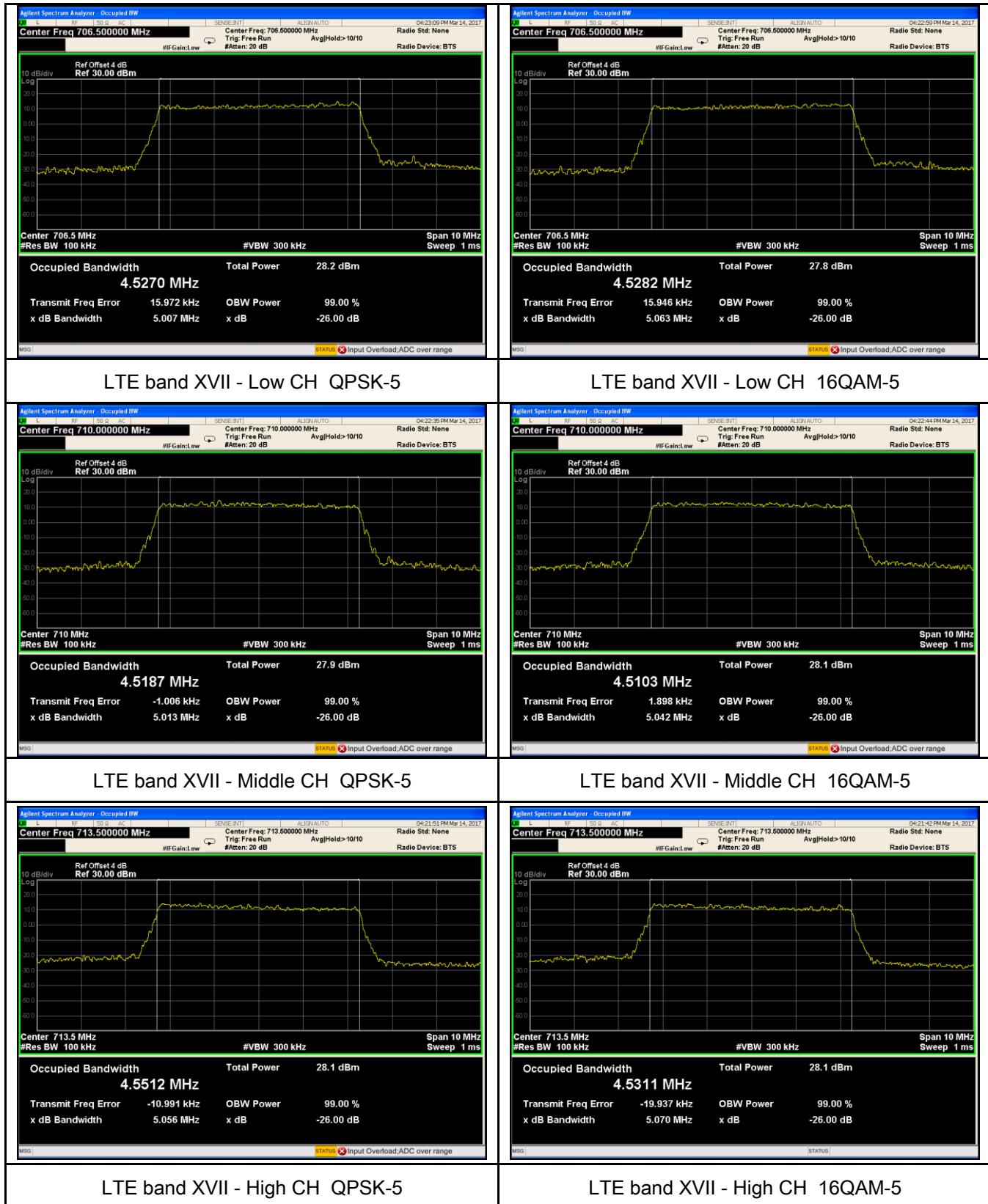
### LTE band VII - Middle CH QPSK-20

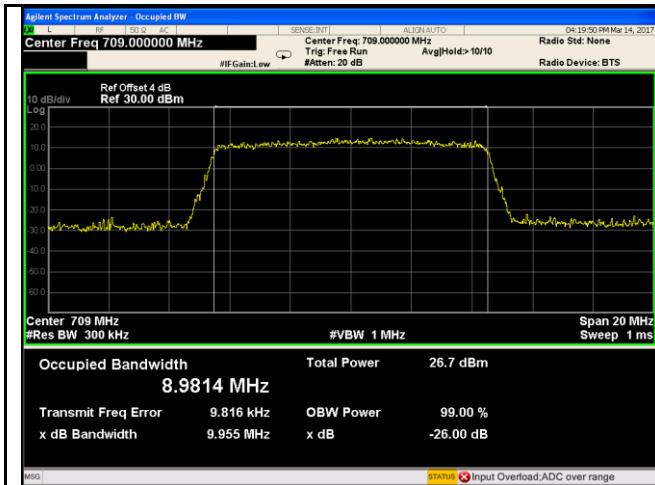


### LTE band VII - High CH QPSK-20

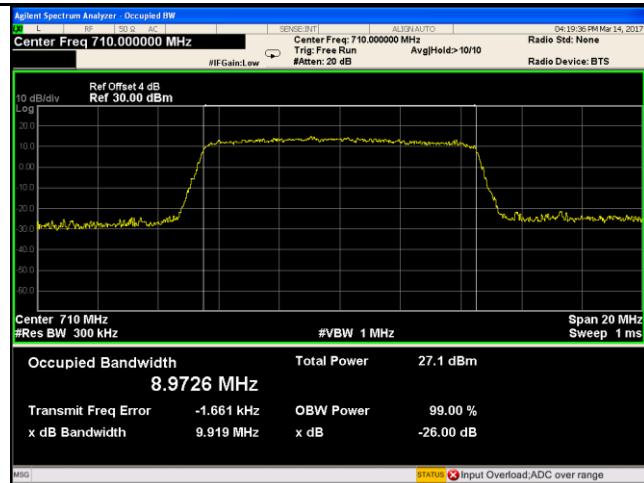
### LTE band VII - High CH 16QAM-20

## LTE band XVII (Part 27)





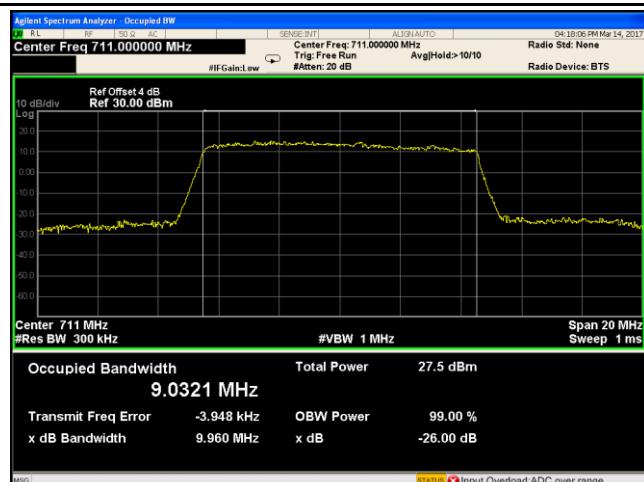
### LTE band XVII - Low CH QPSK-10



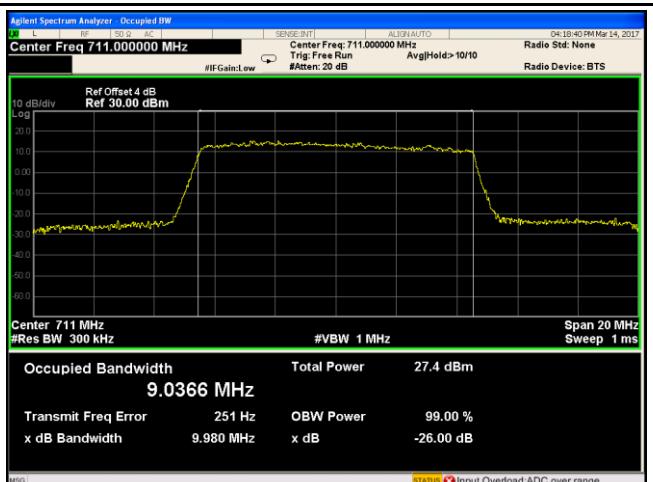
### LTE band XVII - Low CH 16QAM-10



### LTE band XVII - Middle CH QPSK-10



### LTE band XVII - Middle CH 16QAM-10



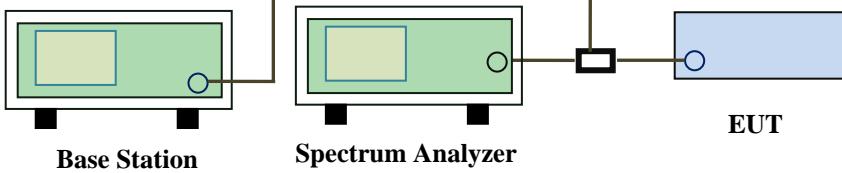
### LTE band XVII - High CH QPSK-10

### LTE band XVII - High CH 16QAM-10

## 6.5 Spurious Emissions at Antenna Terminals

Temperature	22°C
Relative Humidity	55%
Atmospheric Pressure	1012mbar
Test date :	March 14, 2017
Tested By :	Loren Luo

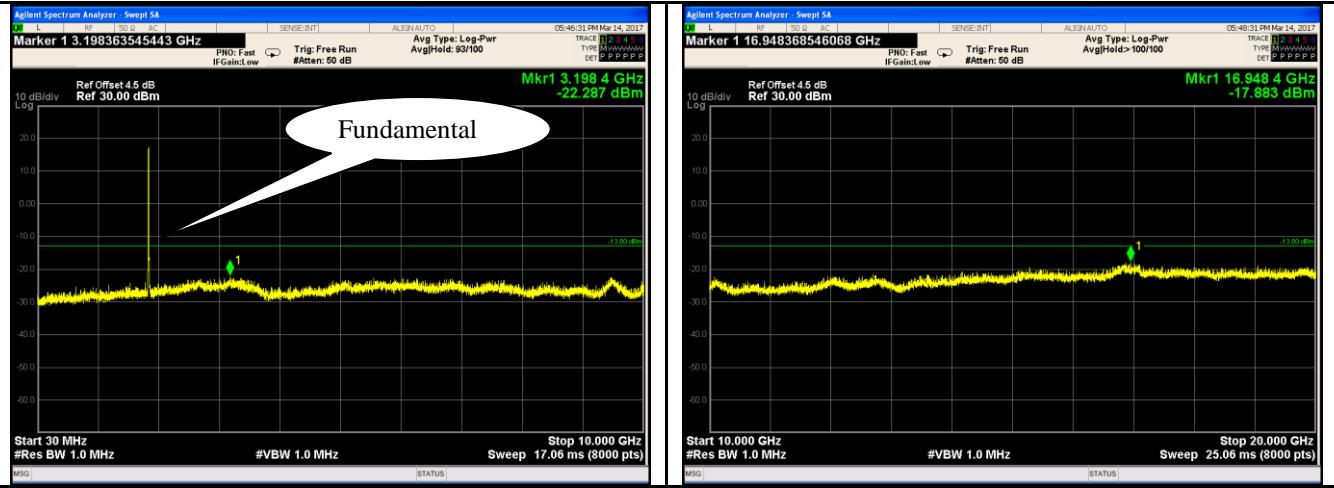
**Requirement(s):**

Spec	Item	Requirement	Applicable
§2.1051, §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 $43 + 10 \log (P) \text{ dB}$	<input checked="" type="checkbox"/>
Test Setup		 <p style="text-align: center;"><b>Base Station</b>      <b>Spectrum Analyzer</b>      <b>EUT</b></p>	
Test Procedure		<ul style="list-style-type: none"> <li>- The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>- The Band Edges of low and high channels for the highest RF powers were measured.</li> <li>- Setting RBW as roughly BW/100.</li> </ul>	
Remark			
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

**Test Data**     Yes       N/A  
**Test Plot**     Yes (See below)       N/A

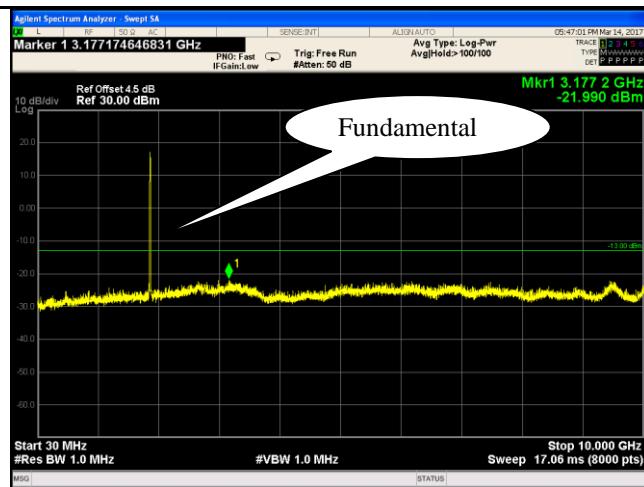
## Test Plots 30MHz-5GHz

### LTE band II (Part 24E)



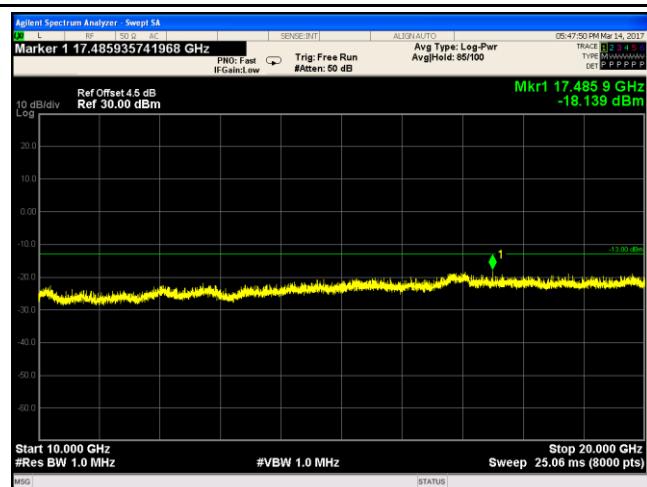
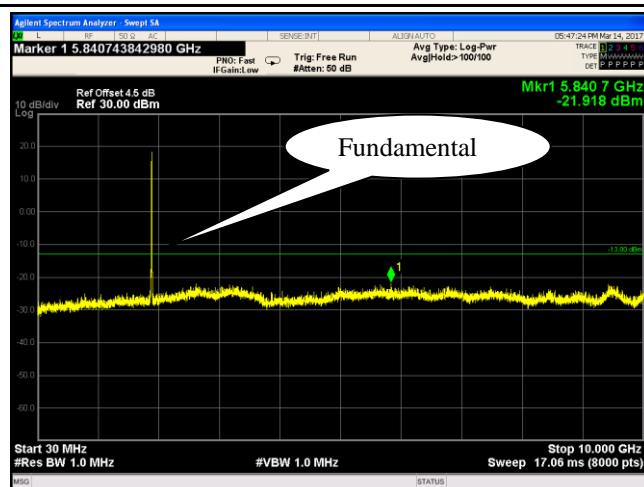
LTE band II - Low Channel-1

LTE band II - Low Channel-2



LTE band II Middle Channel-1

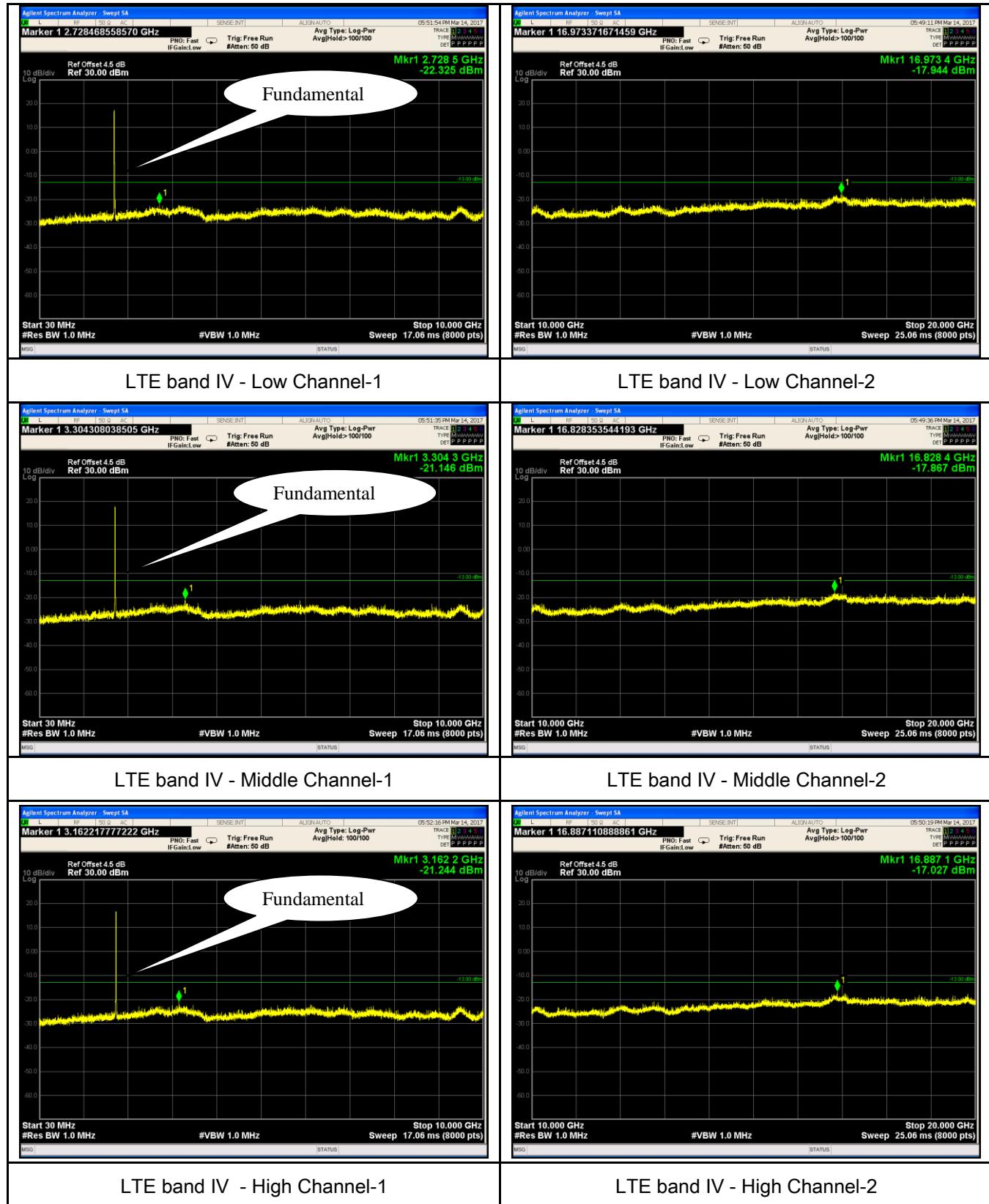
LTE band II Middle Channel-2



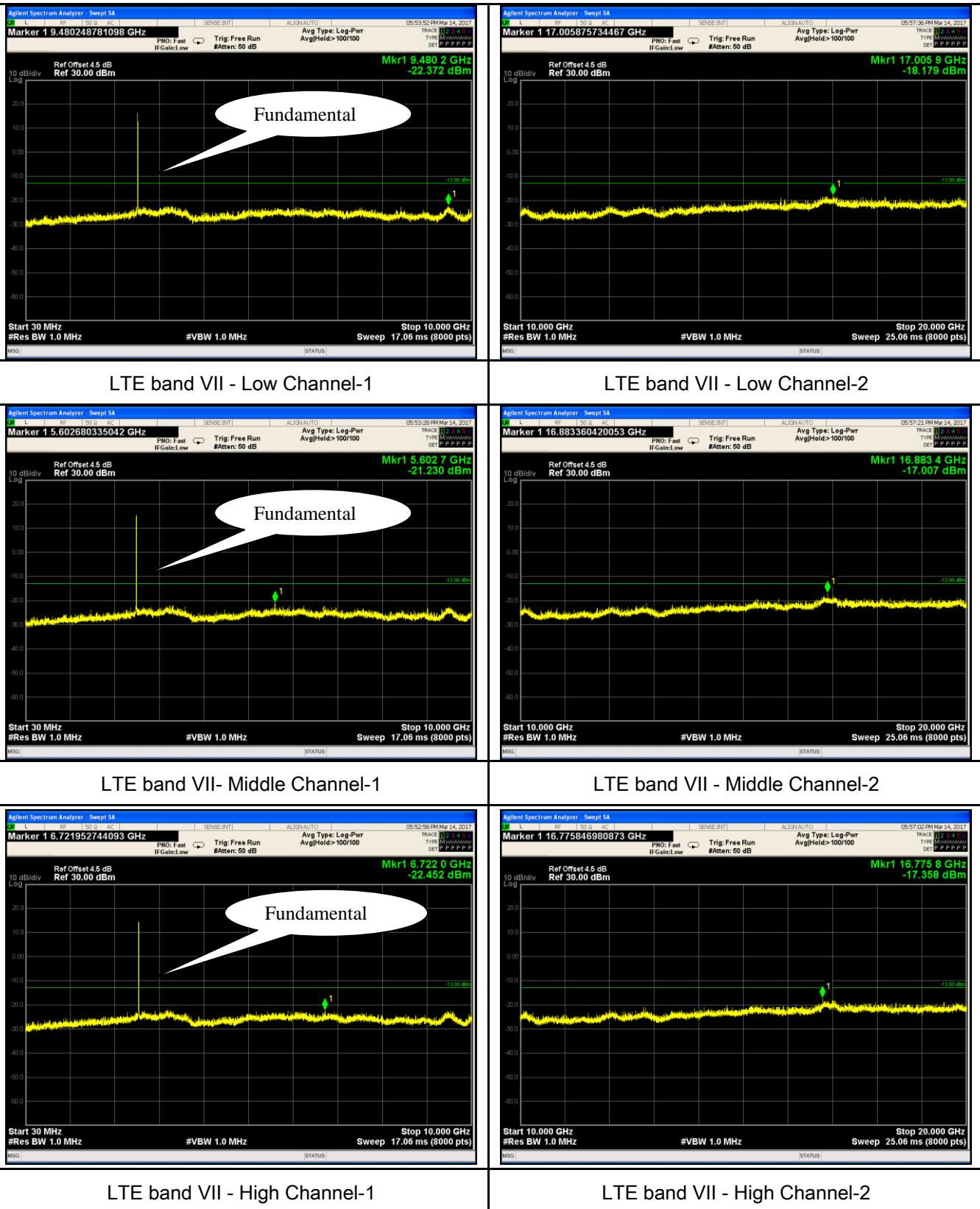
LTE band II - High Channel-1

LTE band II - High Channel-2

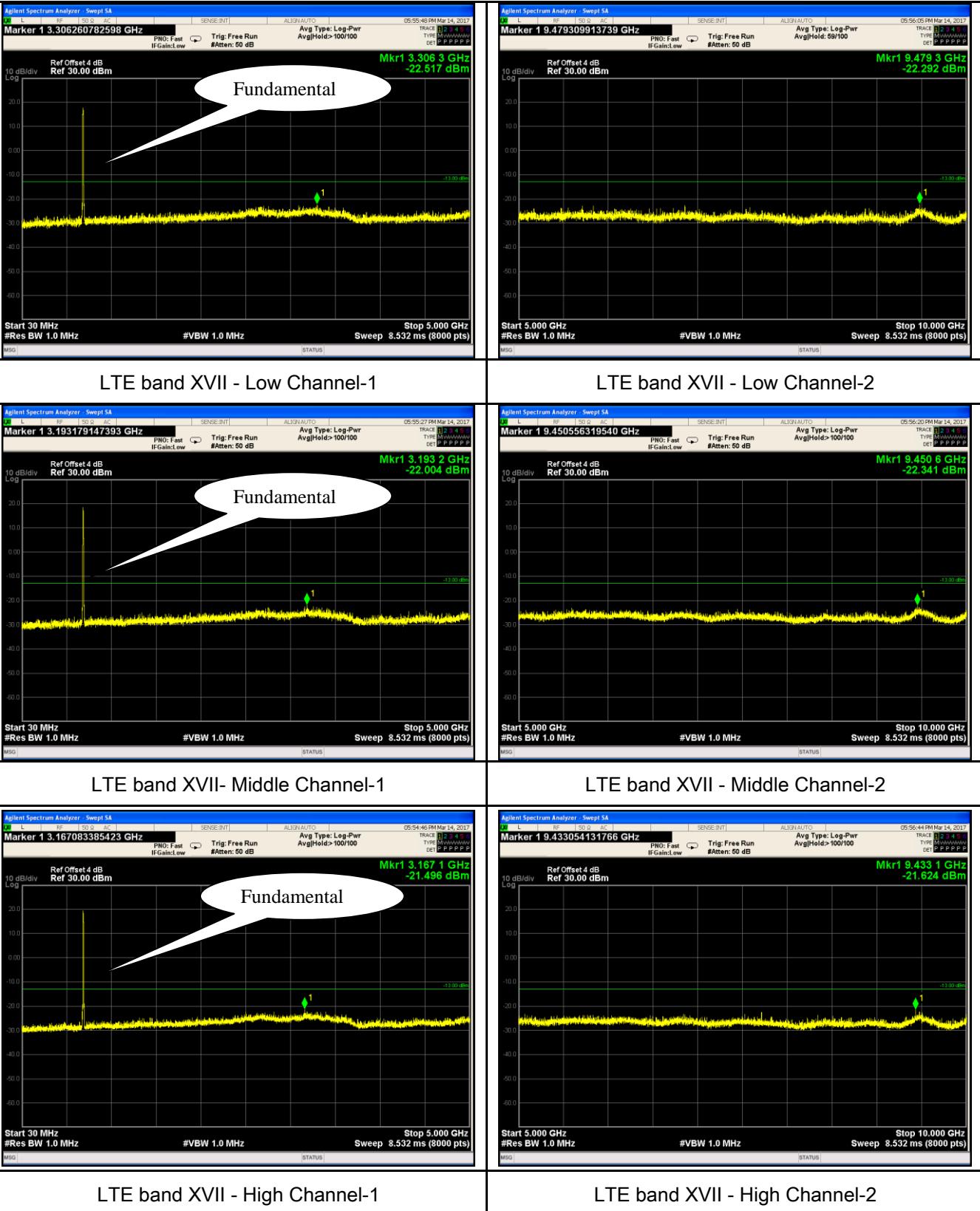
## LTE band IV (Part27) result



## LTE band VII (Part 27)



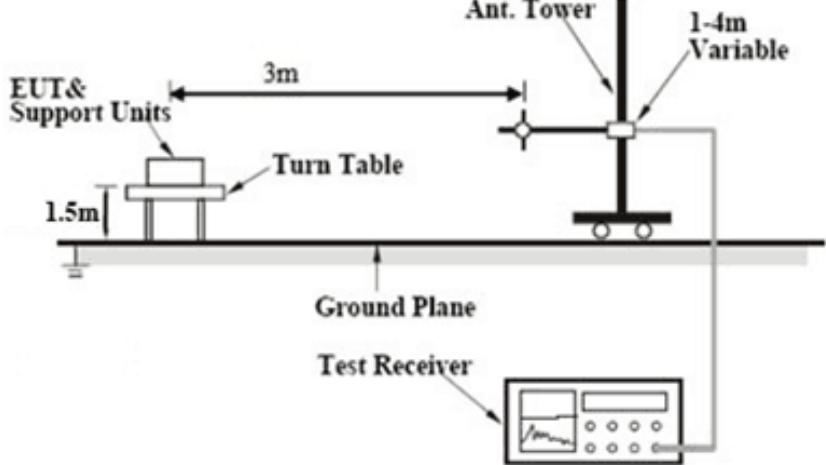
## LTE band XVII (Part 27)



## 6.6 Spurious Radiated Emissions

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	March 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"> <li>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.</li> <li>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.</li> <li>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.</li> </ol> <p>Sample Calculation:</p> <p>EUT Field Strength = Raw Amplitude (dB<math>\mu</math>V/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	-46.28	V	10.25	2.73	-38.76	-13	-25.76
3720	-46.78	H	10.25	2.73	-39.26	-13	-26.26
50.3	-45.28	V	-4.2	0.11	-49.59	-13	-36.59
204.6	-46.97	H	4.6	0.18	-42.55	-13	-29.55

### 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	-46.37	V	10.25	2.73	-38.85	-13	-25.85
3760	-47.08	H	10.25	2.73	-39.56	-13	-26.56
50.6	-45.19	V	-4.2	0.11	-49.5	-13	-36.50
202.3	-48.12	H	4.6	0.18	-43.7	-13	-30.70

### 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	-45.98	V	10.36	2.73	-38.35	-13	-25.35
3800	-46.87	H	10.36	2.73	-39.24	-13	-26.24
51.3	-44.86	V	-4.2	0.11	-49.17	-13	-36.17
203.6	-47.52	H	4.6	0.18	-43.1	-13	-30.10

#### 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 -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	-46.12	V	10.06	2.52	-38.58	-13	-25.58
3440	-47.59	H	10.06	2.52	-40.05	-13	-27.05
52.9	-46.22	V	-4.2	0.11	-50.53	-13	-37.53
204.5	-47.69	H	4.6	0.18	-43.27	-13	-30.27

#### 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	-45.13	V	10.09	2.52	-37.56	-13	-24.56
3465	-46.57	H	10.09	2.52	-39	-13	-26.00
51.9	-46.91	V	-4.2	0.11	-51.22	-13	-38.22
205.7	-48.96	H	4.6	0.18	-44.54	-13	-31.54

#### 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	-45.62	V	10.09	2.52	-38.05	-13	-25.05
3490	-46.22	H	10.09	2.52	-38.65	-13	-25.65
50.6	-45.67	V	-4.2	0.11	-49.98	-13	-36.98
204.7	-47.23	H	4.6	0.18	-42.81	-13	-29.81

#### 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 -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	-47.62	V	10.29	0.98	-38.31	-13	-25.31
5020	-48.53	H	10.29	0.98	-39.22	-13	-26.22
52.6	-45.62	V	-4.2	0.11	-49.93	-13	-36.93
205.7	-47.55	H	4.6	0.18	-43.13	-13	-30.13

#### 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	-47.16	V	10.3	0.99	-37.85	-13	-24.85
5070	-48.21	H	10.3	0.99	-38.9	-13	-25.90
51.6	-45.63	V	-4.2	0.11	-49.94	-13	-36.94
202.8	-47.61	H	4.6	0.18	-43.19	-13	-30.19

#### 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	-48.62	V	10.32	1	-39.3	-13	-26.30
5120	-48.79	H	10.32	1	-39.47	-13	-26.47
50.3	-45.61	V	-4.2	0.11	-49.92	-13	-36.92
204.6	-47.36	H	4.6	0.18	-42.94	-13	-29.94

#### 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 -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	-44.36	V	7.65	0.75	-37.46	-13	-24.46
1418	-45.16	H	7.65	0.75	-38.26	-13	-25.26
50.5	-45.79	V	-4.2	0.11	-50.1	-13	-37.10
206.7	-48.61	H	4.6	0.18	-44.19	-13	-31.19

#### 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	-43.18	V	7.65	0.75	-36.28	-13	-23.28
1420	-44.78	H	7.65	0.75	-37.88	-13	-24.88
52.8	-45.62	V	-4.2	0.11	-49.93	-13	-36.93
206.1	-47.91	H	4.6	0.18	-43.49	-13	-30.49

#### 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	-44.28	V	7.65	0.75	-37.38	-13	-24.38
1422	-45.21	H	7.65	0.75	-38.31	-13	-25.31
50.4	-46.11	V	-4.2	0.11	-50.42	-13	-37.42
205.7	-48.67	H	4.6	0.18	-44.25	-13	-31.25

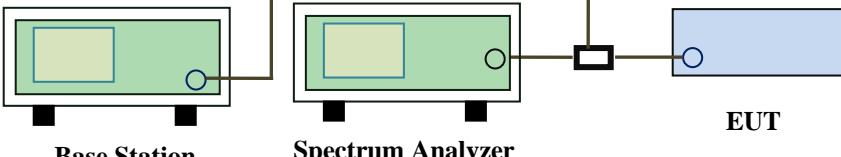
#### Note:

- 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 -Axis were investigated. The results above show only the worst case.

## 6.7 Band Edge

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	March 16, 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"> <li>- The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>- The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.</li> </ul>		
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	-21.51	-13
			16QAM	-21.64	-13
1.4	18900	1910	QPSK	-16.95	-13
			16QAM	-15.94	-13
3	18615	1850	QPSK	-17.77	-13
			16QAM	-18.24	-13
3	19185	1910	QPSK	-16.27	-13
			16QAM	-15.91	-13
5	18625	1850	QPSK	-15.22	-13
			16QAM	-16.04	-13
5	19175	1910	QPSK	-16.25	-13
			16QAM	-15.97	-13
10	18650	1850	QPSK	-14.51	-13
			16QAM	-14.38	-13
10	19150	1910	QPSK	-15.40	-13
			16QAM	-16.06	-13
15	18675	1850	QPSK	-15.78	-13
			16QAM	-15.67	-13
15	19125	1910	QPSK	-15.07	-13
			16QAM	-14.75	-13
20	18700	1848	QPSK	-20.19	-13
			16QAM	-20.88	-13
20	19100	1911	QPSK	-17.76	-13
			16QAM	-16.73	-13

### LTE band IV (Part 27) result

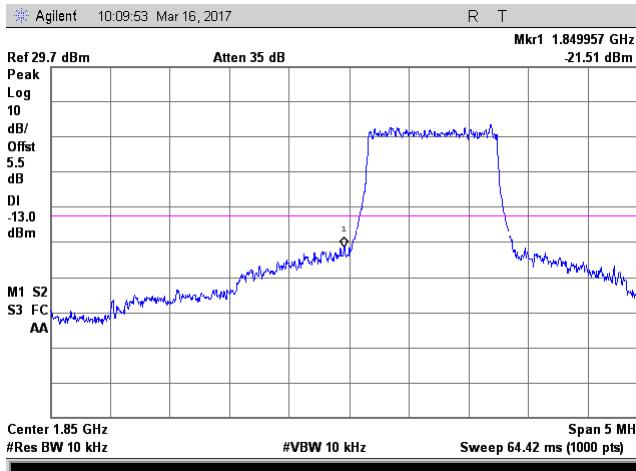
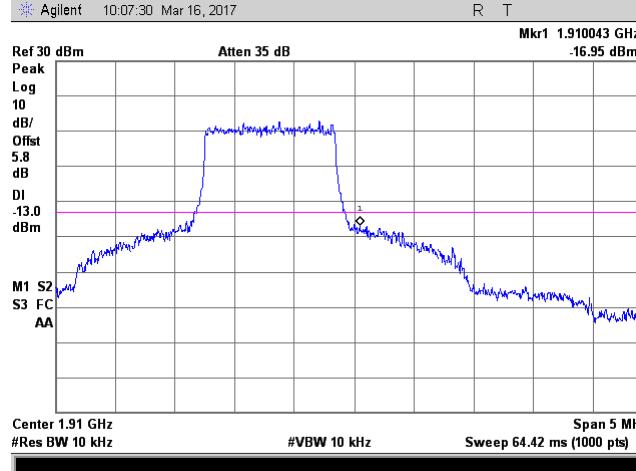
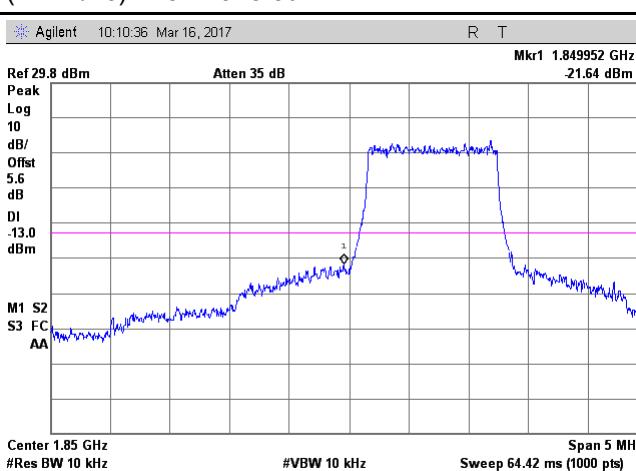
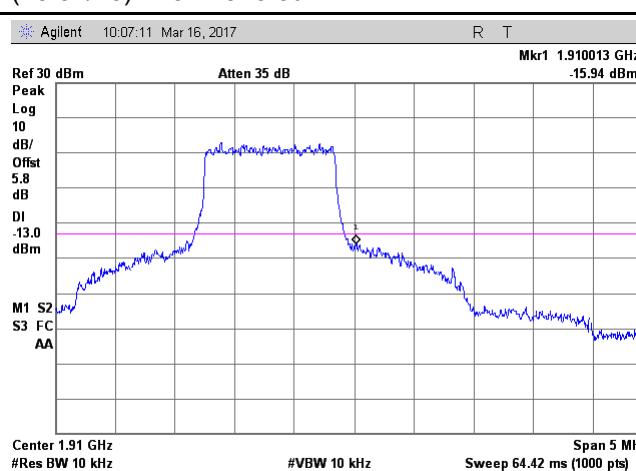
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
1.4	19957	1710	QPSK	-23.86	-13
			16QAM	-24.12	-13
1.4	20393	1755	QPSK	-25.95	-13
			16QAM	-24.49	-13
3	19965	1710	QPSK	-17.19	-13
			16QAM	-18.68	-13
3	20385	1755	QPSK	-19.67	-13
			16QAM	-18.52	-13
5	19975	1710	QPSK	-14.37	-13
			16QAM	-16.15	-13
5	20375	1755	QPSK	-16.27	-13
			16QAM	-17.51	-13
10	20000	1710	QPSK	-14.18	-13
			16QAM	-14.54	-13
10	20350	1755	QPSK	-17.53	-13
			16QAM	-19.50	-13
15	20025	1710	QPSK	-18.81	-13
			16QAM	-18.31	-13
15	20325	1755	QPSK	-18.84	-13
			16QAM	-18.59	-13
20	20050	1710	QPSK	-20.84	-13
			16QAM	-21.30	-13
20	20300	1755	QPSK	-24.64	-13
			16QAM	-22.61	-13

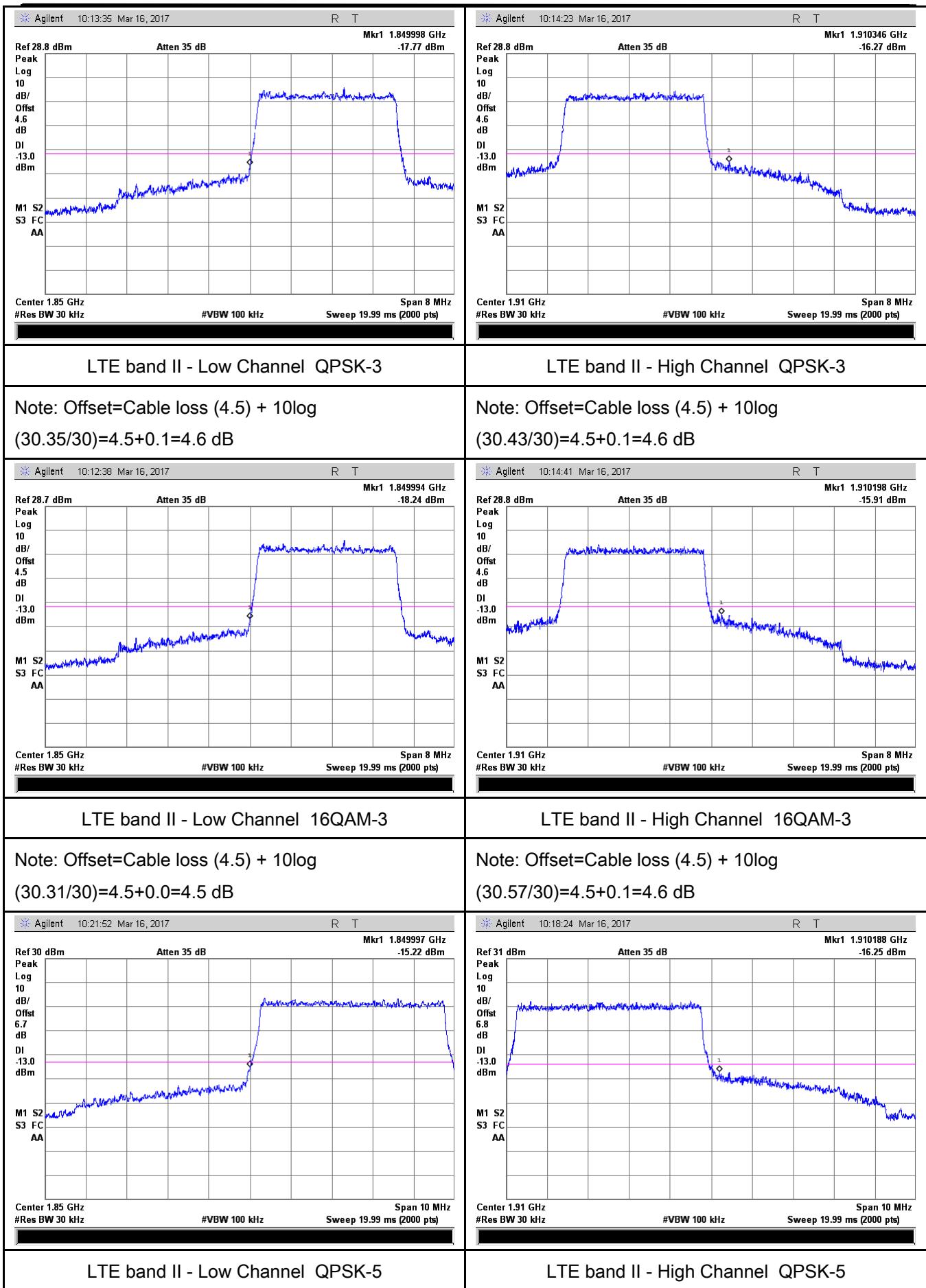
### LTE band XVII (Part 27) result

BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
5	23755	703.9	QPSK	-17.26	-13
			16QAM	-17.75	-13
5	23825	716	QPSK	-18.28	-13
			16QAM	-17.88	-13
10	23780	703.9	QPSK	-16.25	-13
			16QAM	-16.04	-13
10	23800	716	QPSK	-19.98	-13
			16QAM	-18.40	-13

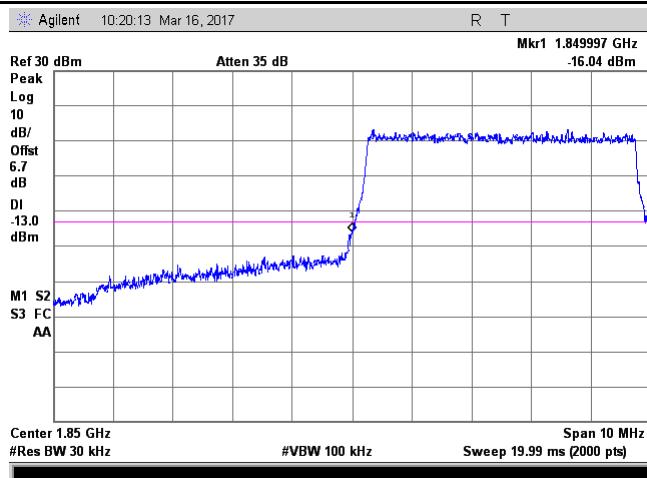
## Test Plots

### LTE band II (Part 24E)

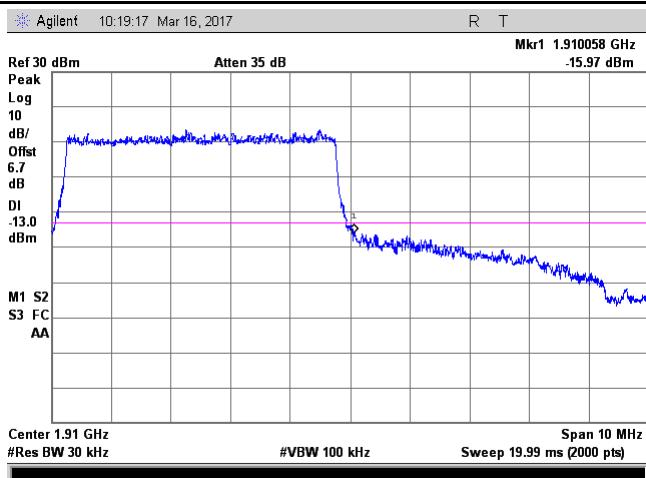
 <p>Agilent 10:09:53 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 1.849957 GHz -21.51 dBm</p> <p>Ref 29.7 dBm</p> <p>Peak Log 10 dB/Offset 5.5 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.85 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>	 <p>Agilent 10:07:30 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 1.910043 GHz -16.95 dBm</p> <p>Ref 30 dBm</p> <p>Peak Log 10 dB/Offset 5.8 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.91 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>
<p>LTE band II - Low Channel QPSK-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(12.71/10)=4.5+1.0=5.5\text{dB}</math></p>	<p>LTE band II - High Channel QPSK-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(13.37/10)=4.5+1.3=5.8\text{dB}</math></p>
 <p>Agilent 10:10:36 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 1.849952 GHz -21.64 dBm</p> <p>Ref 29.8 dBm</p> <p>Peak Log 10 dB/Offset 5.6 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.85 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>	 <p>Agilent 10:07:11 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 1.910013 GHz -15.94 dBm</p> <p>Ref 30 dBm</p> <p>Peak Log 10 dB/Offset 5.8 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.91 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>
<p>LTE band II - Low Channel 16QAM-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(12.88/10)=4.5+1.1=5.6\text{ dB}</math></p>	<p>LTE band II - High Channel 16QAM-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(13.43/10)=4.5+1.3=5.8\text{ dB}</math></p>



Note: Offset=Cable loss (4.5) + 10log  
(50.25/30)=4.5+2.2=6.7 dB

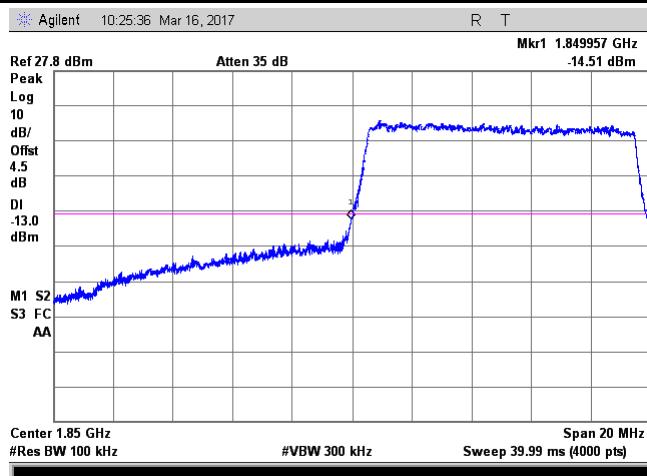


Note: Offset=Cable loss (4.5) + 10log  
(50.52/30)=4.5+2.3=6.8 dB



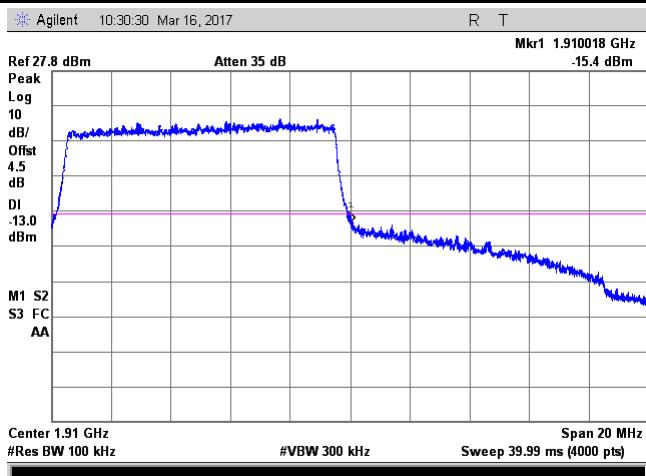
#### LTE band II - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log  
(50/30)=4.5+2.2=6.7 dB

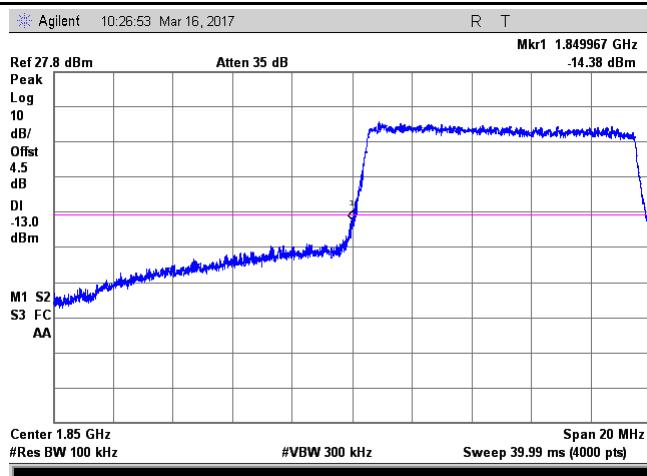


#### LTE band II - High Channel 16QAM-5

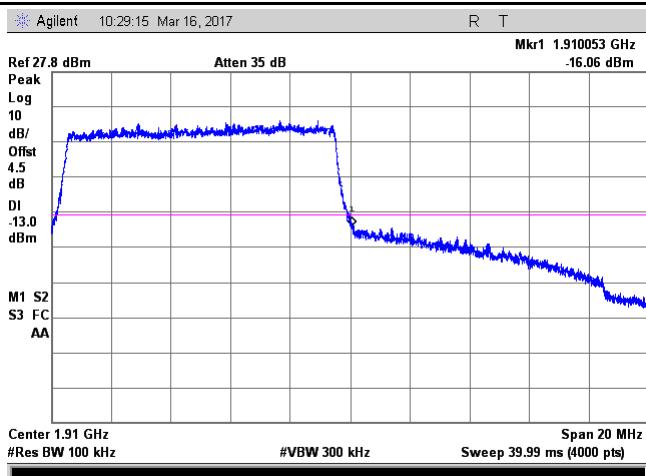
Note: Offset=Cable loss (4.5) + 10log  
(50.16/30)=4.5+2.2=6.7 dB



#### LTE band II - Low Channel QPSK-10



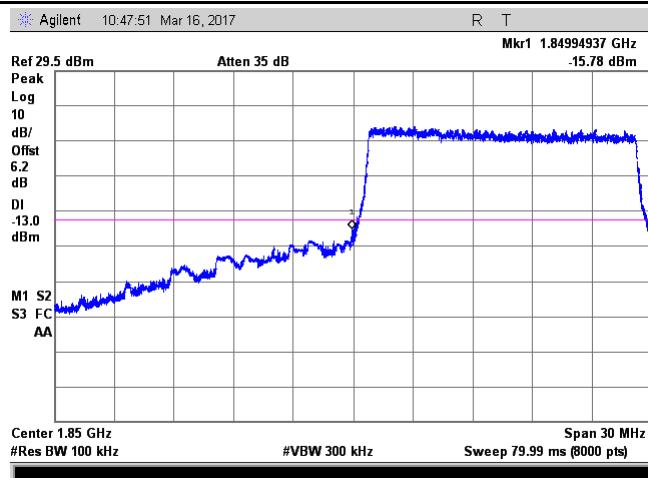
#### LTE band II - High Channel QPSK-10



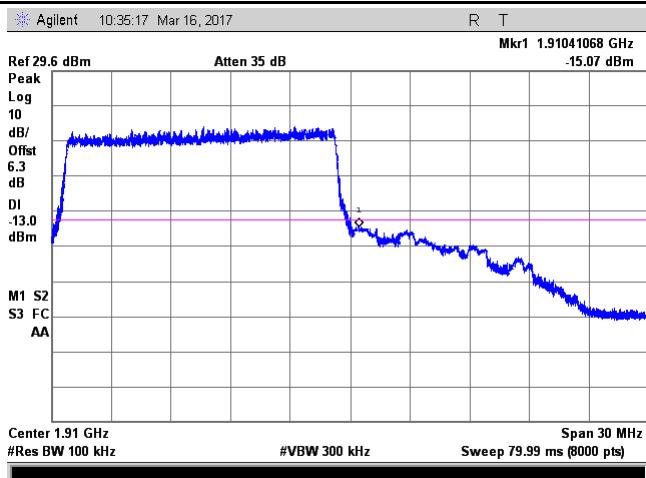
#### LTE band II - Low Channel 16QAM-10

#### LTE band II - High Channel 16QAM-10

Note: Offset=Cable loss (4.5) + 10log  
 $(100.8/100)=4.5+0.0=4.5$  dB

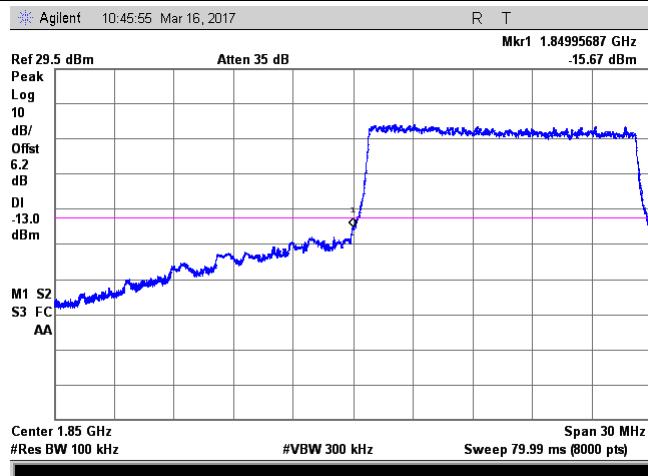


Note: Offset=Cable loss (4.5) + 10log  
 $(101.4/100)=4.5+0.0=4.5$  dB



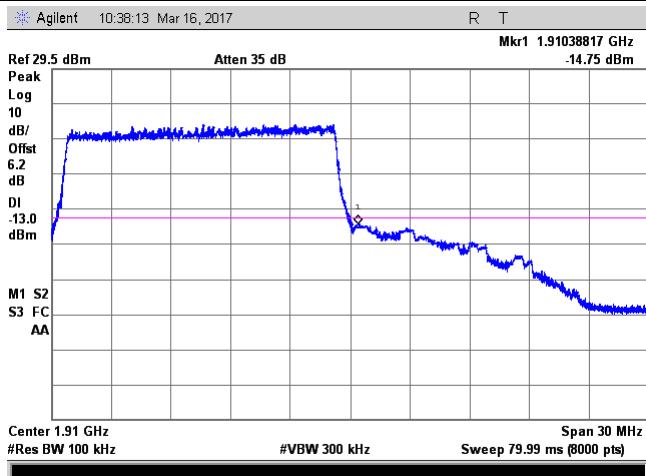
#### LTE band II - Low Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log  
 $(148.3/100)=4.5+1.7=6.2$  dB



#### LTE band II - High Channel QPSK-15

Note: Offset=Cable loss (4.5) + 10log  
 $(150.4/100)=4.5+1.8=6.3$  dB

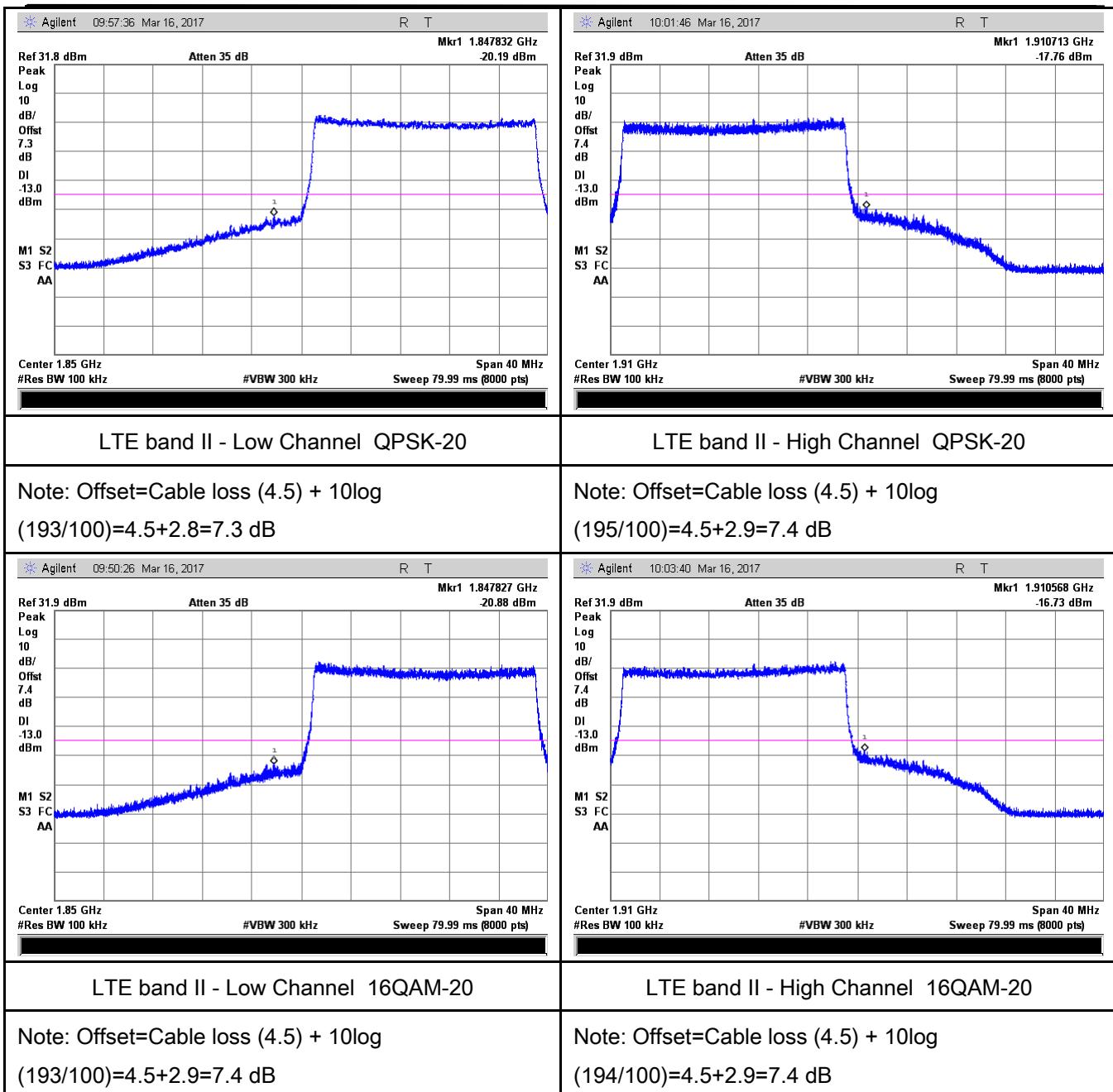


#### LTE band II - Low Channel 16QAM-15

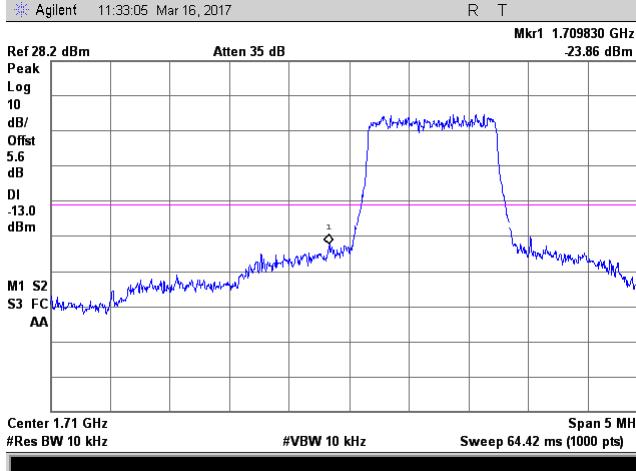
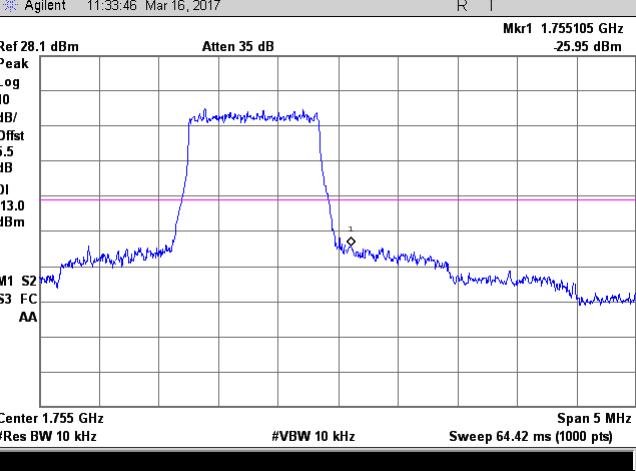
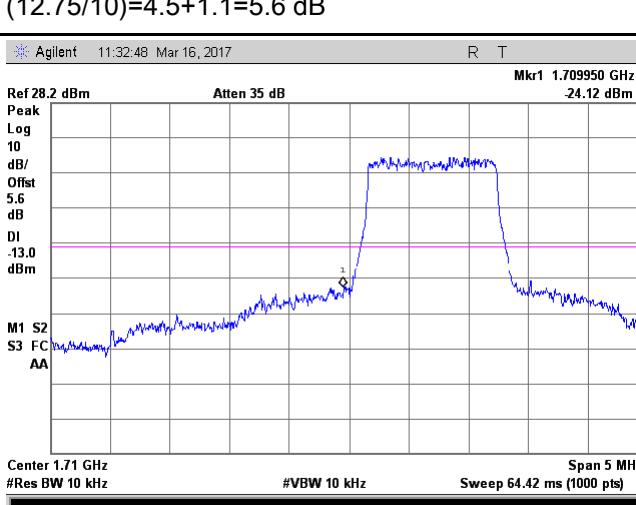
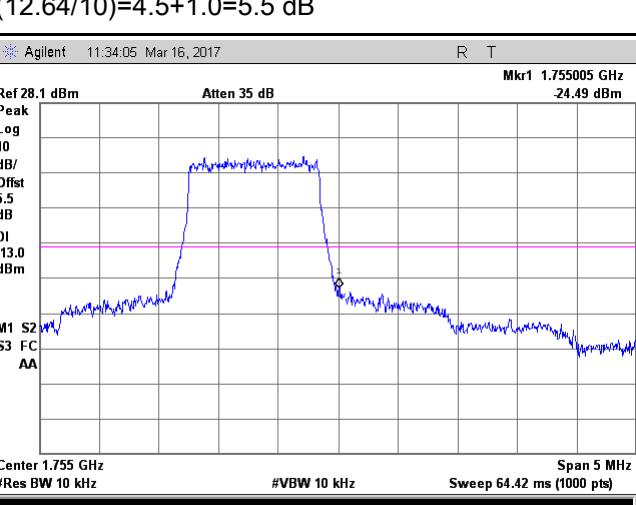
Note: Offset=Cable loss (4.5) + 10log  
 $(148.5/100)=4.5+1.7=6.2$  dB

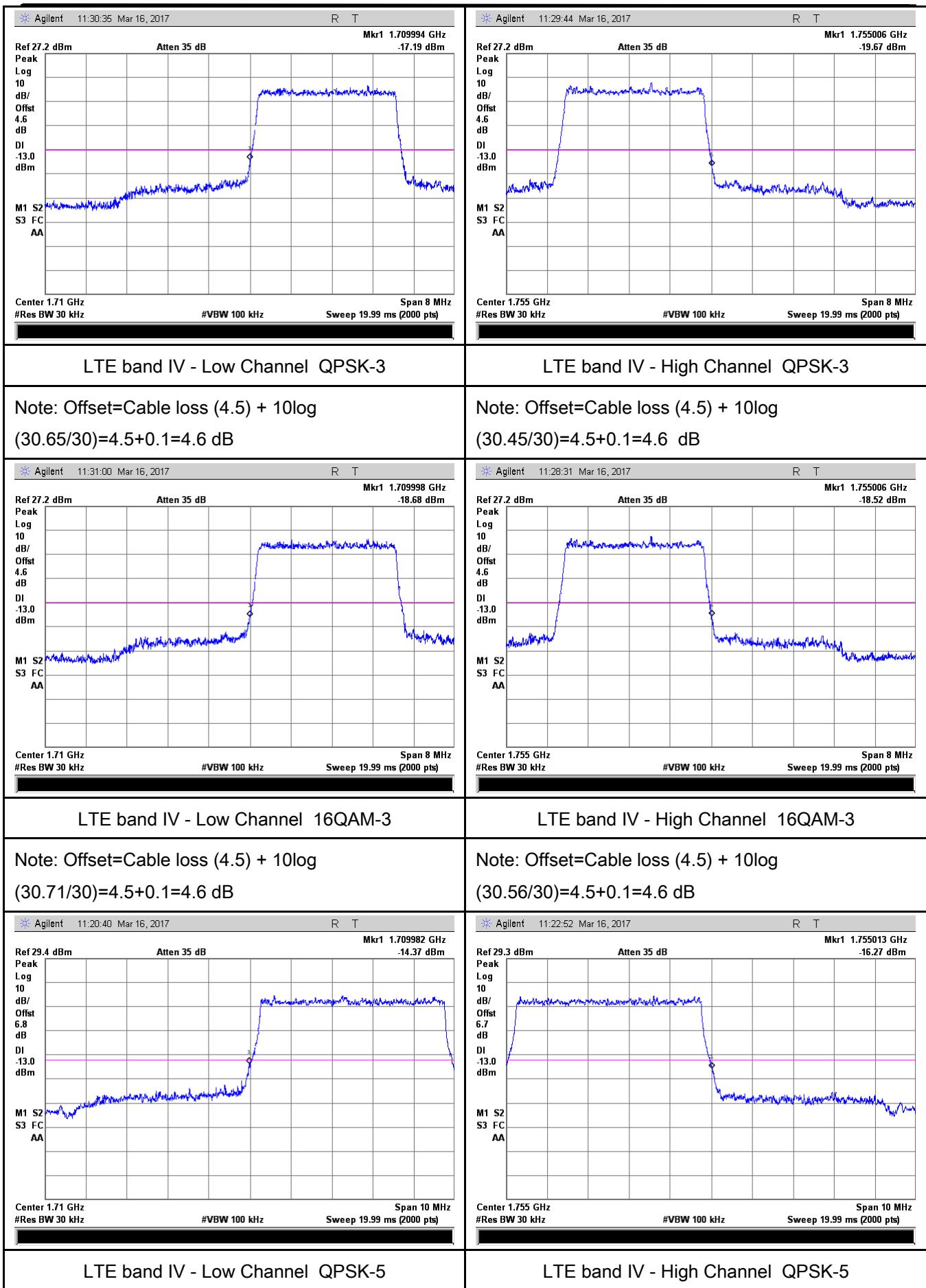
#### LTE band II - High Channel 16QAM-15

Note: Offset=Cable loss (4.5) + 10log  
 $(149.4/100)=4.5+1.7=6.2$  dB

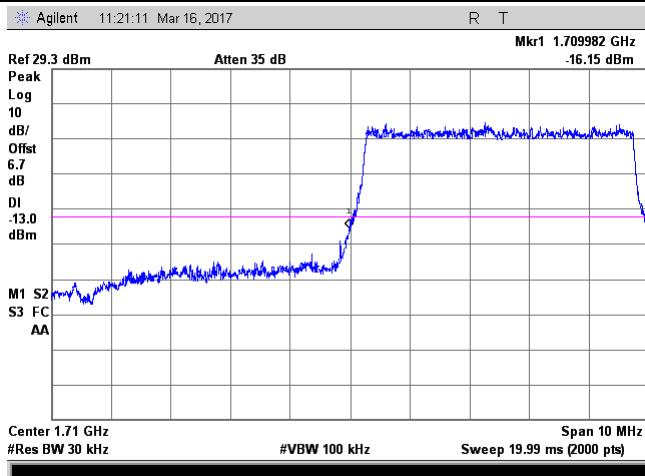


## LTE band IV (Part 27)

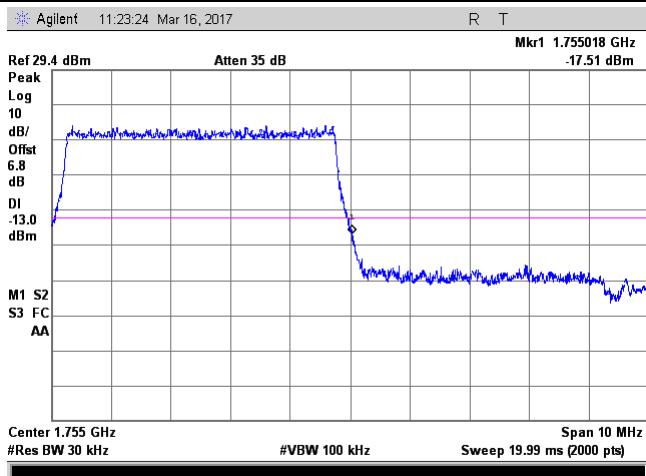
 <p>Agilent 11:33:05 Mar 16, 2017 R T</p> <p>Ref 28.2 dBm Atten 35 dB Mkr1 1.709830 GHz -23.86 dBm</p> <p>Peak Log 10 dB/ Offst 5.6 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.71 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>	 <p>Agilent 11:33:46 Mar 16, 2017 R T</p> <p>Ref 28.1 dBm Atten 35 dB Mkr1 1.755105 GHz -25.95 dBm</p> <p>Peak Log 10 dB/ Offst 5.5 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.755 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>
<p>LTE band IV - Low Channel QPSK-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log (12.75/10)=4.5+1.1=5.6 dB</p>	<p>LTE band IV - High Channel QPSK-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log (12.64/10)=4.5+1.0=5.5 dB</p>
 <p>Agilent 11:32:48 Mar 16, 2017 R T</p> <p>Ref 28.2 dBm Atten 35 dB Mkr1 1.709950 GHz -24.12 dBm</p> <p>Peak Log 10 dB/ Offst 5.6 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.71 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>	 <p>Agilent 11:34:05 Mar 16, 2017 R T</p> <p>Ref 28.1 dBm Atten 35 dB Mkr1 1.755005 GHz -24.49 dBm</p> <p>Peak Log 10 dB/ Offst 5.5 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 1.755 GHz #Res BW 10 kHz #VBW 10 kHz Sweep 64.42 ms (1000 pts) Span 5 MHz</p>
<p>LTE band IV - Low Channel 16QAM-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log (12.84/10)=4.5+1.1=5.6 dB</p>	<p>LTE band IV - High Channel 16QAM-1.4</p> <p>Note: Offset=Cable loss (4.5) + 10log (12.69/10)=4.5+1.0=5.5 dB</p>



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

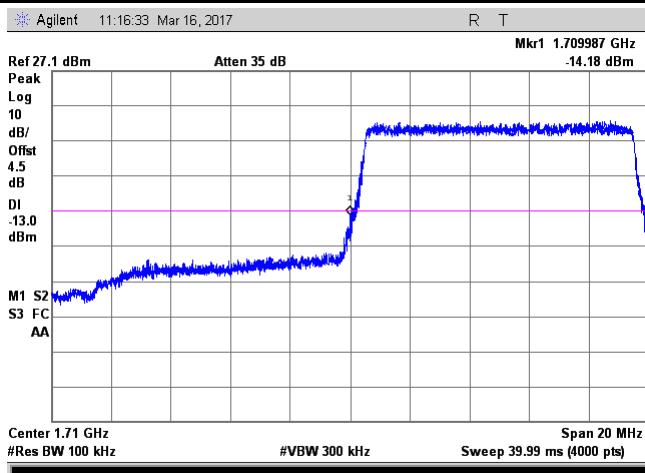


Note: Offset=Cable loss (4.5) + 10log  
 $(50.21/30)=4.5+2.2=6.7 \text{ dB}$



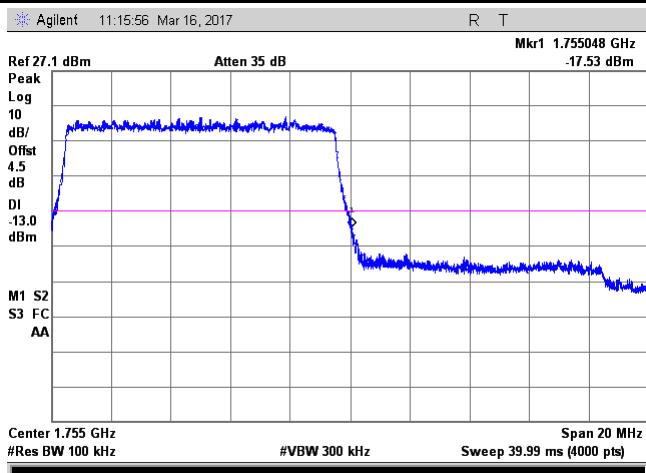
#### LTE band IV - Low Channel 16QAM-5

Note: Offset=Cable loss (4.5) + 10log  
 $(50.06/30)=4.5+2.2=6.7 \text{ dB}$

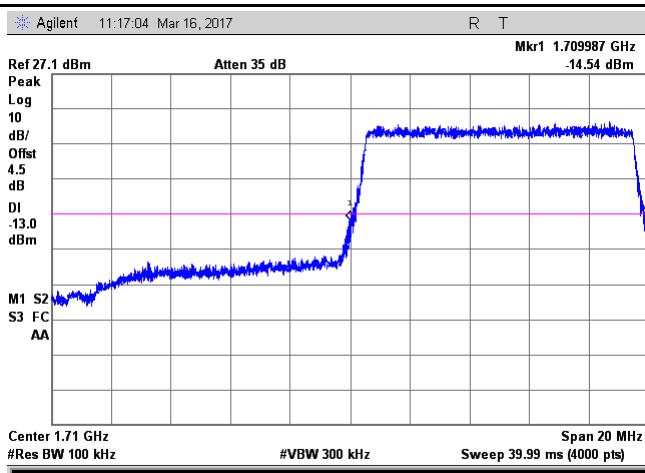


#### LTE band IV - High Channel 16QAM-5

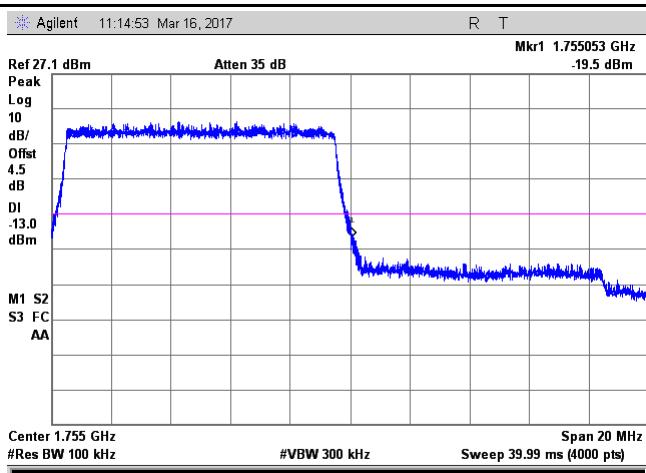
Note: Offset=Cable loss (4.5) + 10log  
 $(50.38/30)=4.5+2.3=6.8 \text{ dB}$



#### LTE band IV - Low Channel QPSK-10

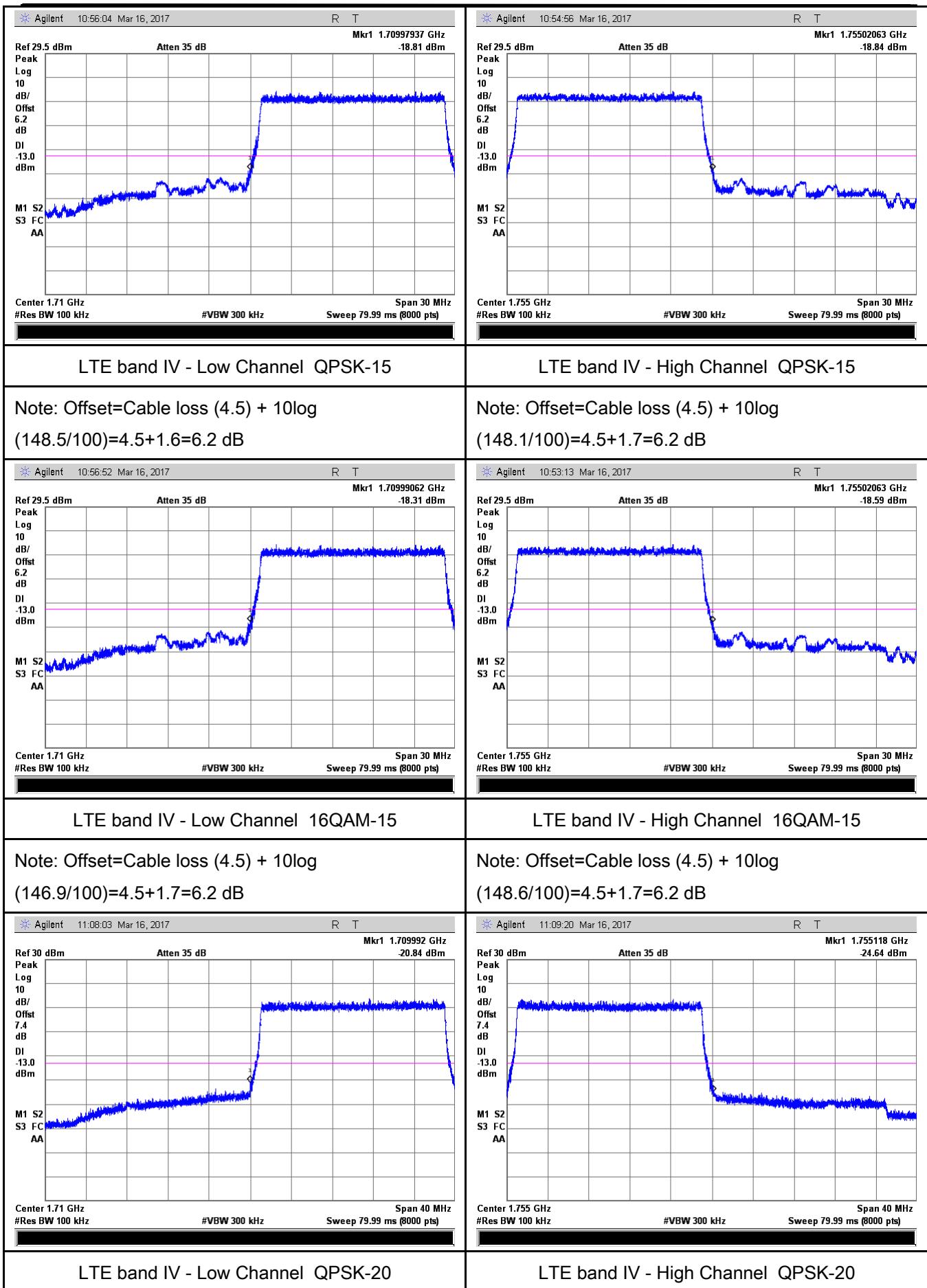


#### LTE band IV - High Channel QPSK-10

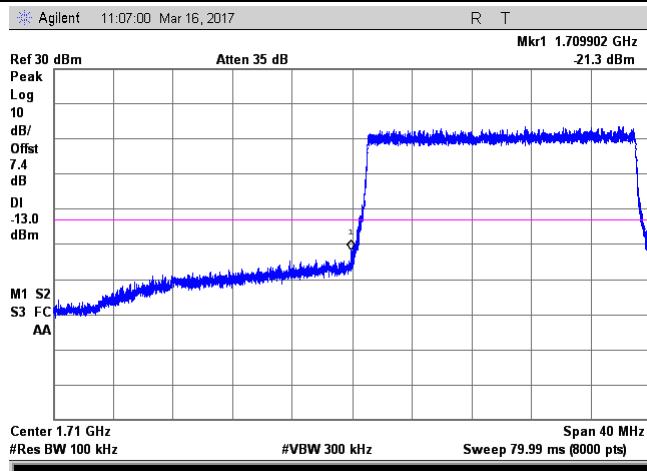


#### LTE band IV - Low Channel 16QAM-10

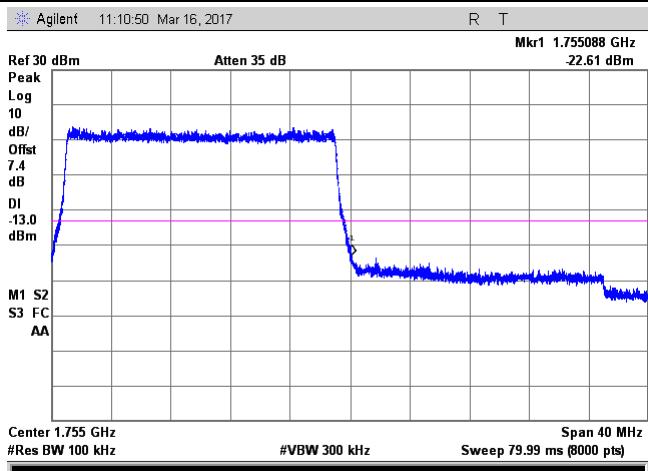
#### LTE band IV - High Channel 16QAM-10



Note: Offset=Cable loss (4.5) + 10log  
 $(193.3/100)=4.5+2.9=7.4 \text{ dB}$



Note: Offset=Cable loss (4.5) + 10log  
 $(193.4/100)=4.5+2.9=7.4 \text{ dB}$



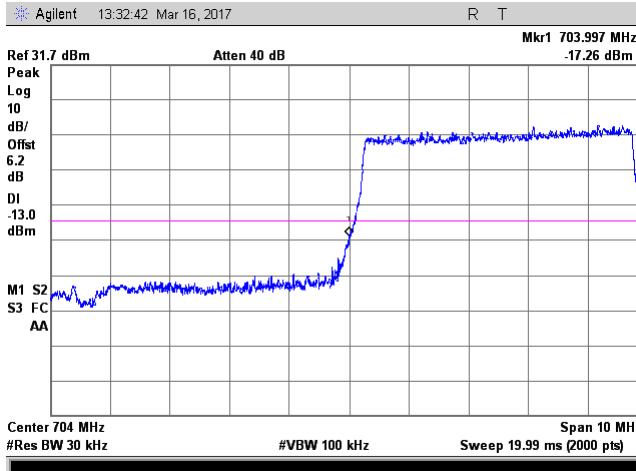
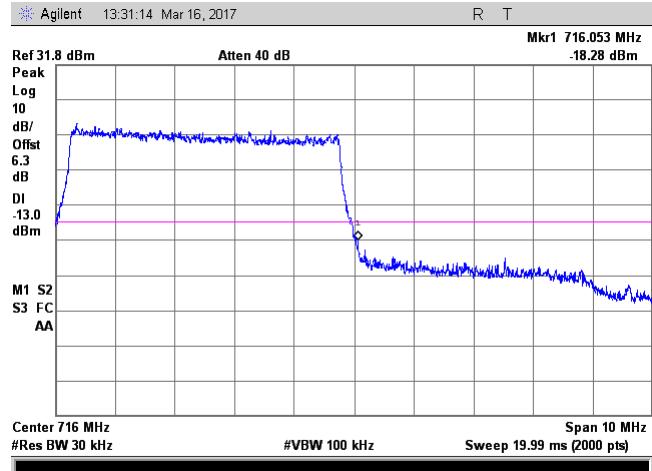
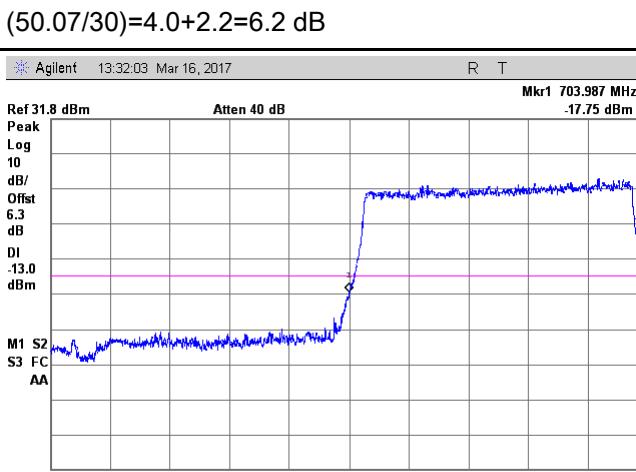
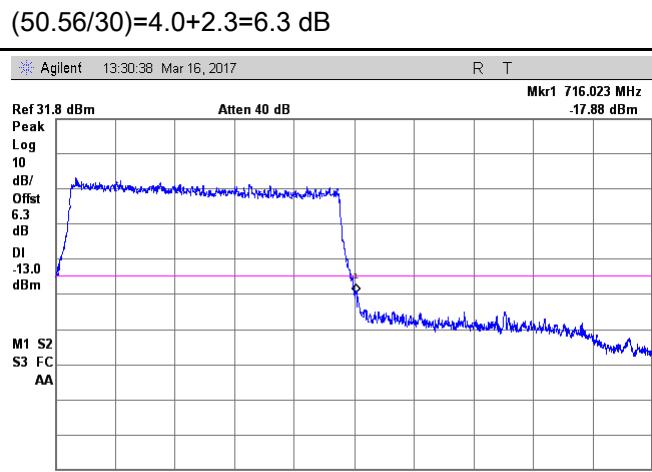
LTE band IV - Low Channel 16QAM-20

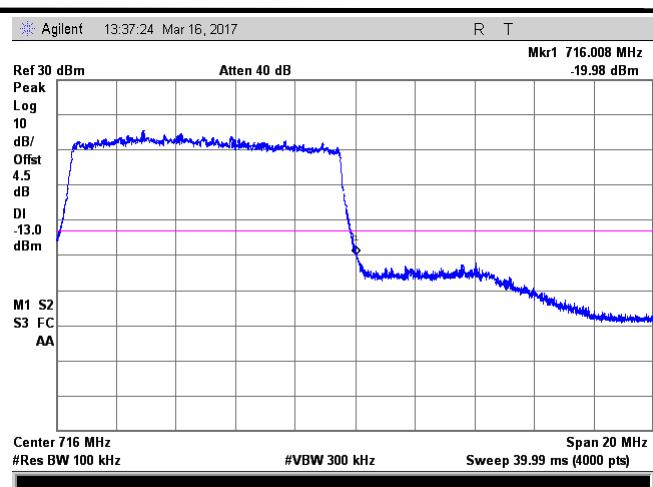
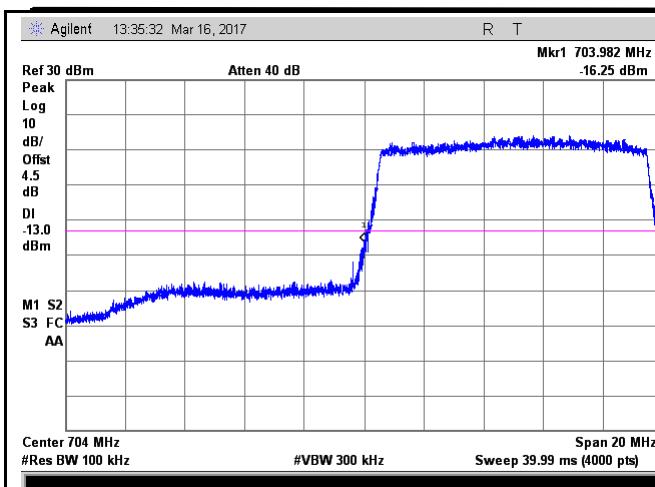
Note: Offset=Cable loss (4.5) + 10log  
 $(194.1/100)=4.5+2.9=7.4 \text{ dB}$

LTE band IV - High Channel 16QAM-20

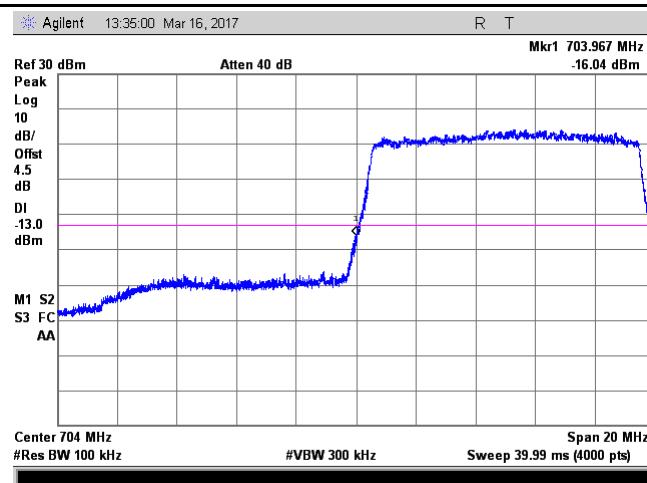
Note: Offset=Cable loss (4.5) + 10log  
 $(194.3/100)=4.5+2.9=7.4 \text{ dB}$

## LTE band XVII (Part 27)

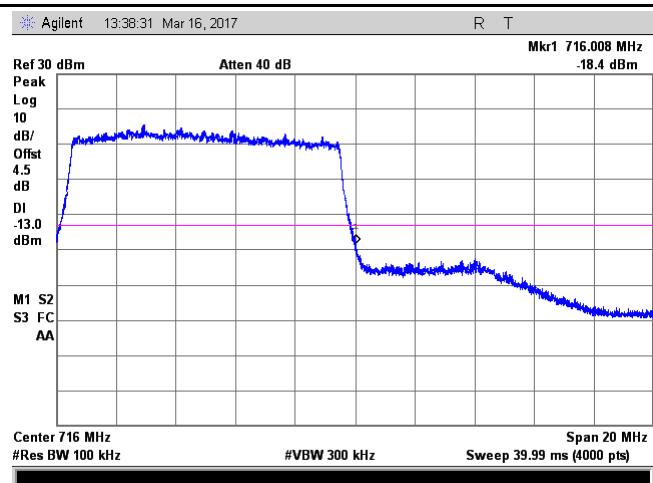
 <p>Agilent 13:32:42 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 703.997 MHz -17.26 dBm</p> <p>Ref 31.7 dBm Atten 40 dB</p> <p>Peak Log 10 dB/Offset 6.2 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 704 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)</p>	 <p>Agilent 13:31:14 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 716.053 MHz -18.28 dBm</p> <p>Ref 31.8 dBm Atten 40 dB</p> <p>Peak Log 10 dB/Offset 6.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 716 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)</p>
<p>LTE band XVII - Low Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (50.07/30)=4.0+2.2=6.2 dB</p>	<p>LTE band XVII - High Channel QPSK-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (50.56/30)=4.0+2.3=6.3 dB</p>
 <p>Agilent 13:32:03 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 703.987 MHz -17.75 dBm</p> <p>Ref 31.8 dBm Atten 40 dB</p> <p>Peak Log 10 dB/Offset 6.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 704 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)</p>	 <p>Agilent 13:30:38 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 716.023 MHz -17.88 dBm</p> <p>Ref 31.8 dBm Atten 40 dB</p> <p>Peak Log 10 dB/Offset 6.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 716 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)</p>
<p>LTE band XVII - Low Channel 16QAM-5</p> <p>Note: Offset=Cable loss (4.0) + 10log (50.63/30)=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 (50.07/30)=4.0+2.3=6.3 dB</p>



### LTE band XVII - Low Channel QPSK-10



### LTE band XVII - High Channel QPSK-10



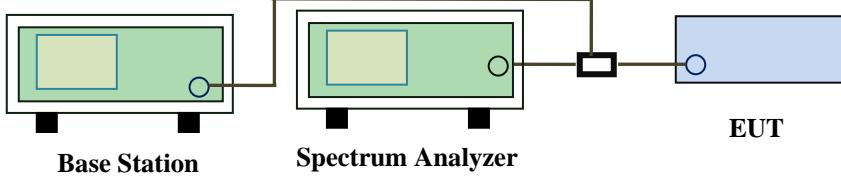
### LTE band XVII - Low Channel 16QAM-10

### LTE band XVII - High Channel 16QAM-10

## 6.8 Band Edge 27.53(m)

Temperature	25°C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	March 16, 2017
Tested By :	Loren Luo

### Requirement(s):

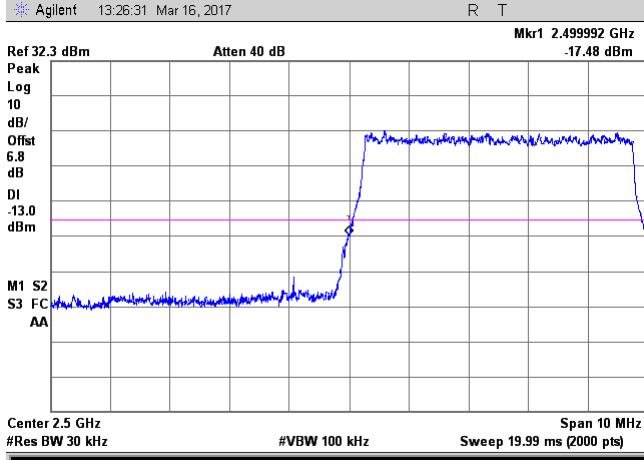
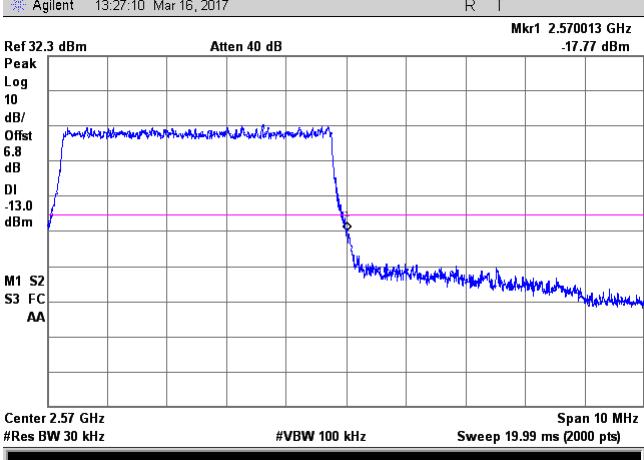
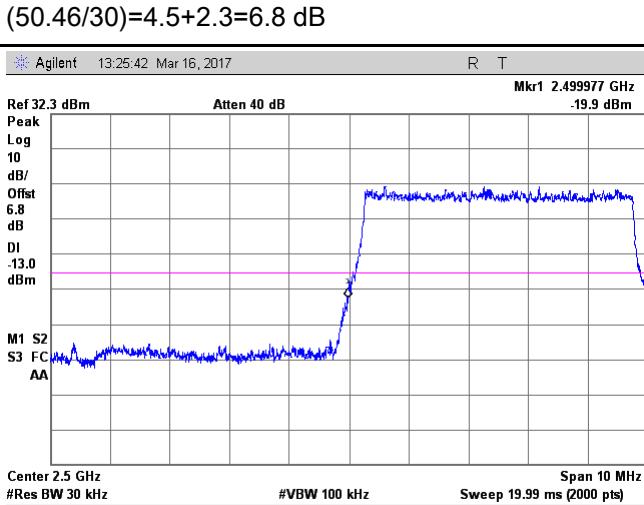
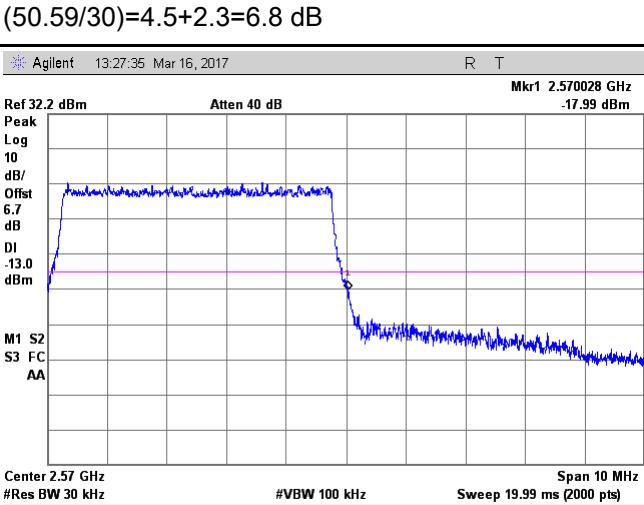
Spec	Requirement	Applicable
§27.53(m)	According to FCC 27.53(m)(4) specified that power of any emmission ouutside of the channel edge must be attenuated below the transmitting power(P) by a factor shall be not less than $43+10\log(P)$ dB at the channel edge, the limit of emission equal to -13dBm. And $55+10\log(P)$ 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.	<input checked="" type="checkbox"/>
Test Setup	 <p style="text-align: center;"><b>Base Station</b>      <b>Spectrum Analyzer</b>      <b>EUT</b></p>	
Test Procedure	<ul style="list-style-type: none"> <li>The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.</li> </ul>	
Remark		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	

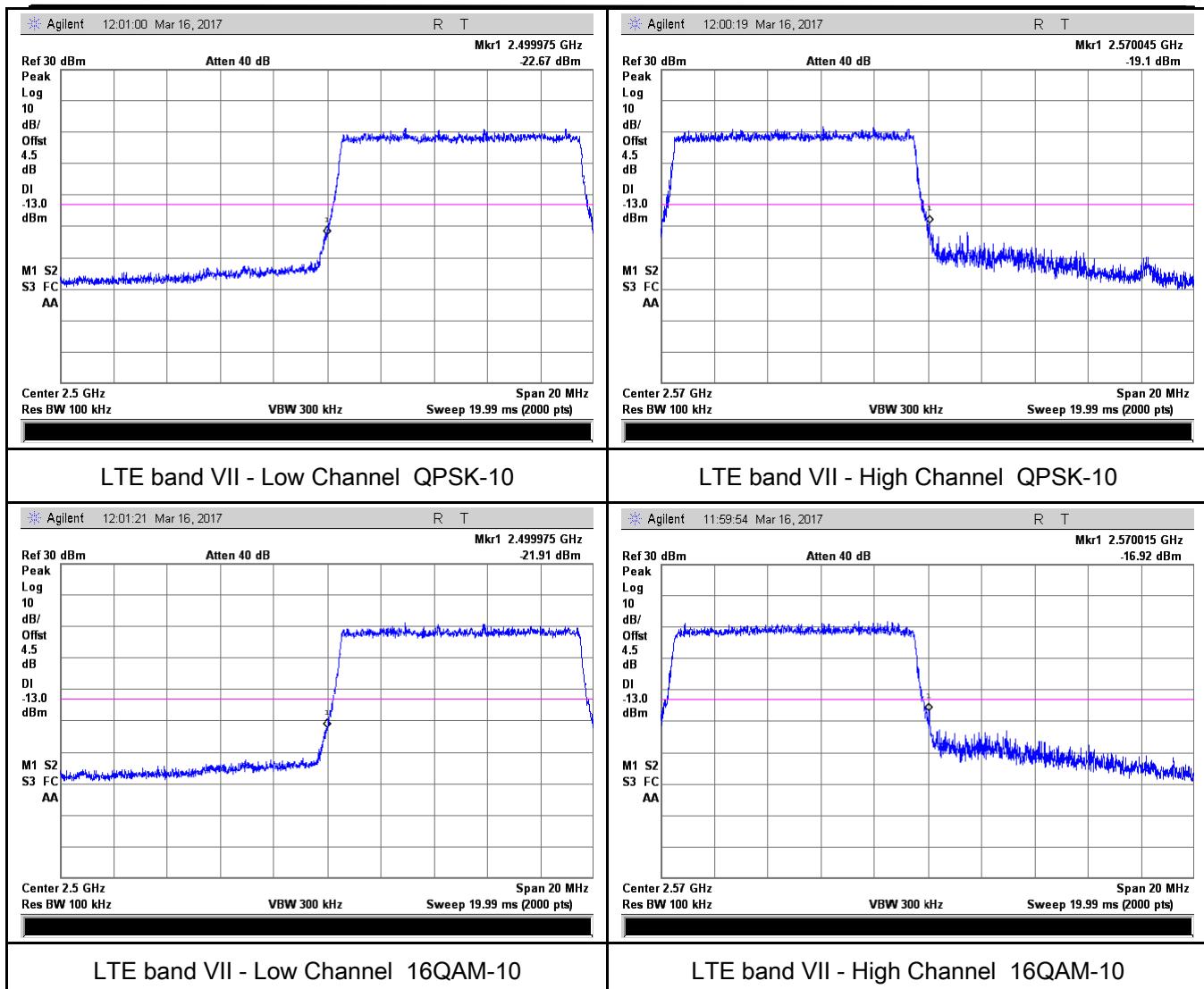
**Test Data**     Yes       N/A  
**Test Plot**     Yes (See below)       N/A

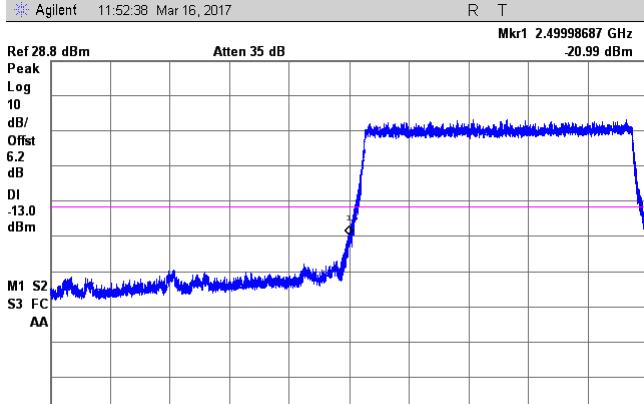
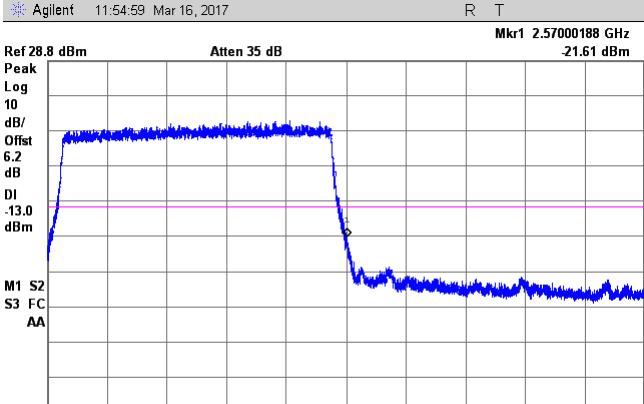
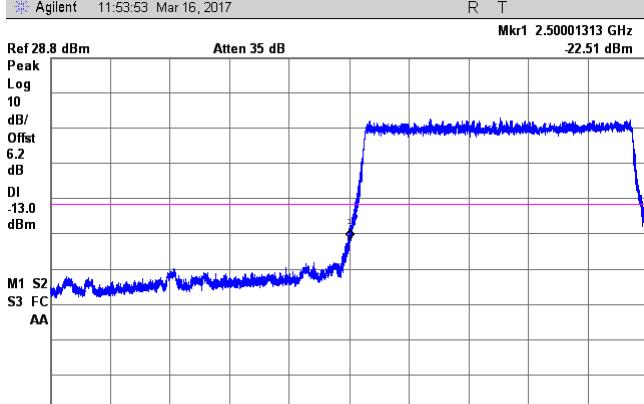
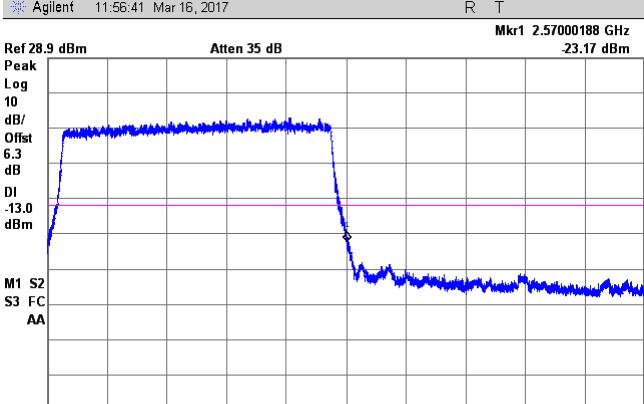
### LTE band VII (Part 27) result

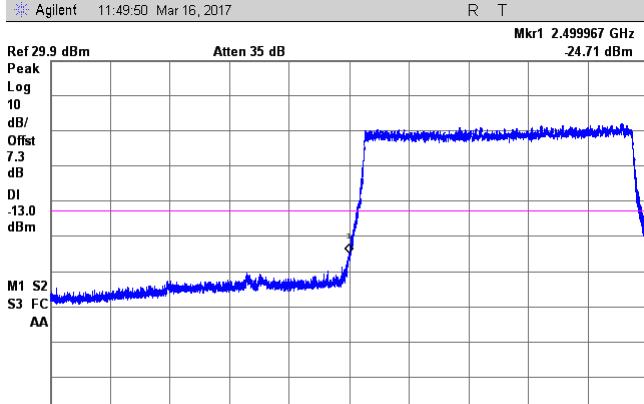
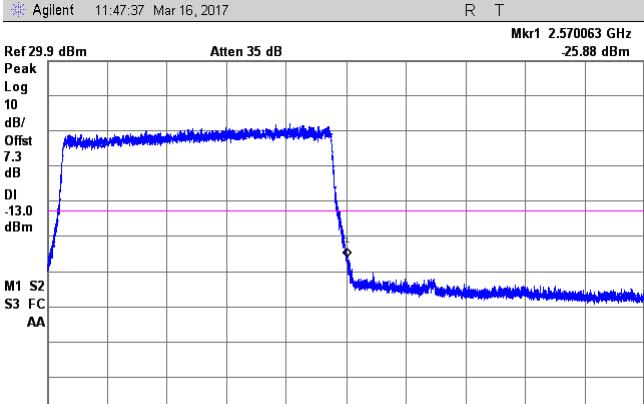
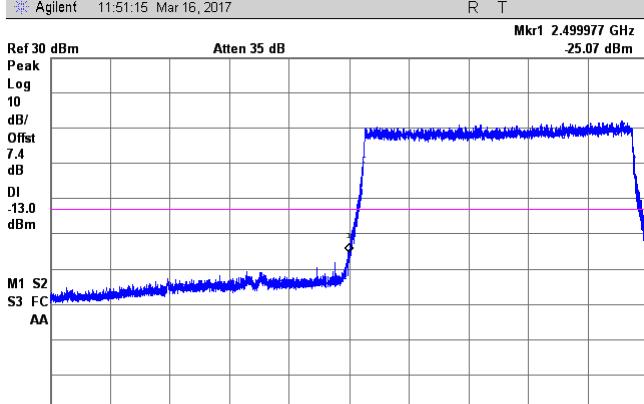
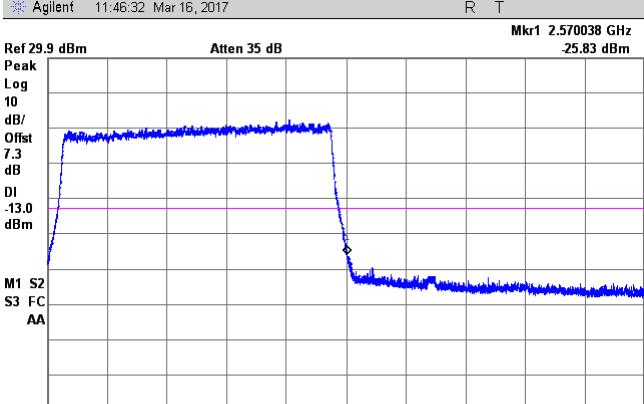
BW(MHz)	Channel	Frequency (MHz)	Mode	Emission (dBm)	Limit (dBm)
5	20775	2500	QPSK	-17.48	-13
			16QAM	-19.90	-13
5	21425	2570	QPSK	-17.77	-13
			16QAM	-17.99	-13
10	20800	2500	QPSK	-22.67	-13
			16QAM	-21.91	-13
10	21400	2570	QPSK	-19.10	-13
			16QAM	-16.92	-13
15	20825	2500	QPSK	-20.99	-13
			16QAM	-22.51	-13
15	21400	2570	QPSK	-21.61	-13
			16QAM	-23.17	-13
20	20850	2500	QPSK	-24.71	-13
			16QAM	-25.07	-13
20	21350	2570	QPSK	-25.88	-13
			16QAM	-25.83	-13

## LTE band VII (Part 27)

 <p>Agilent 13:26:31 Mar 16, 2017 R T  Ref 32.3 dBm Atten 40 dB Mkr1 2.499992 GHz -17.48 dBm  Peak Log 10 dB/ Offst 6.8 dB DI -13.0 dBm  M1 S2 S3 FC AA  Center 2.5 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)  Span 10 MHz</p>	 <p>Agilent 13:27:10 Mar 16, 2017 R T  Ref 32.3 dBm Atten 40 dB Mkr1 2.570013 GHz -17.77 dBm  Peak Log 10 dB/ Offst 6.8 dB DI -13.0 dBm  M1 S2 S3 FC AA  Center 2.57 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)  Span 10 MHz</p>
<p><b>LTE band VII - Low Channel QPSK-5</b></p> <p>Note: Offset=Cable loss (4.5) + 10log  <math>(50.46/30)=4.5+2.3=6.8</math> dB</p>	<p><b>LTE band VII - High Channel QPSK-5</b></p> <p>Note: Offset=Cable loss (4.5) + 10log  <math>(50.59/30)=4.5+2.3=6.8</math> dB</p>
 <p>Agilent 13:25:42 Mar 16, 2017 R T  Ref 32.3 dBm Atten 40 dB Mkr1 2.499977 GHz -19.9 dBm  Peak Log 10 dB/ Offst 6.8 dB DI -13.0 dBm  M1 S2 S3 FC AA  Center 2.5 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)  Span 10 MHz</p>	 <p>Agilent 13:27:35 Mar 16, 2017 R T  Ref 32.2 dBm Atten 40 dB Mkr1 2.570028 GHz -17.99 dBm  Peak Log 10 dB/ Offst 6.7 dB DI -13.0 dBm  M1 S2 S3 FC AA  Center 2.57 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 19.99 ms (2000 pts)  Span 10 MHz</p>
<p><b>LTE band VII - Low Channel 16QAM-5</b></p> <p>Note: Offset=Cable loss (4.5) + 10log  <math>(50.74/30)=4.5+2.3=6.8</math> dB</p>	<p><b>LTE band VII - High Channel 16QAM-5</b></p> <p>Note: Offset=Cable loss (4.5) + 10log  <math>(50.19/30)=4.5+2.2=6.7</math> dB</p>



 <p>Agilent 11:52:38 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.49998687 GHz -20.99 dBm</p> <p>Ref 28.8 dBm Atten 35 dB</p> <p>Peak Log 10 dB/ Offset 6.2 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>	 <p>Agilent 11:54:59 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.57000188 GHz -21.61 dBm</p> <p>Ref 28.8 dBm Atten 35 dB</p> <p>Peak Log 10 dB/ Offset 6.2 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.57 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>
<p>LTE band VII - Low Channel QPSK-15</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(147.6/100)=4.5+1.7=6.2 \text{ dB}</math></p>	<p>LTE band VII - High Channel QPSK-15</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(148.8/100)=4.5+1.7=6.2 \text{ dB}</math></p>
 <p>Agilent 11:53:53 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.50001313 GHz -22.51 dBm</p> <p>Ref 28.8 dBm Atten 35 dB</p> <p>Peak Log 10 dB/ Offset 6.2 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>	 <p>Agilent 11:56:41 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.57000188 GHz -23.17 dBm</p> <p>Ref 28.9 dBm Atten 35 dB</p> <p>Peak Log 10 dB/ Offset 6.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.57 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>
<p>LTE band VII - Low Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(148.6/100)=4.5+1.7=6.2 \text{ dB}</math></p>	<p>LTE band VII - High Channel 16QAM-15</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(150.1/100)=4.5+1.8=6.3 \text{ dB}</math></p>

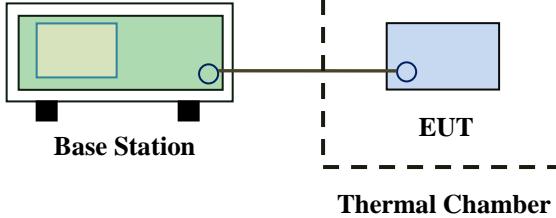
 <p>Agilent 11:49:50 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.499967 GHz -24.71 dBm</p> <p>Ref 29.9 dBm Peak Log 10 dB/ Offset 7.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>	 <p>Agilent 11:47:37 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.570063 GHz -25.88 dBm</p> <p>Ref 29.9 dBm Peak Log 10 dB/ Offset 7.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.57 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>
<p>LTE band VII - Low Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(192.5/100)=4.5+2.8=7.3\text{ dB}</math></p>	<p>LTE band VII - High Channel QPSK-20</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(192.3/100)=4.5+2.8=7.3\text{ dB}</math></p>
 <p>Agilent 11:51:15 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.499977 GHz -25.07 dBm</p> <p>Ref 30 dBm Peak Log 10 dB/ Offset 7.4 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>	 <p>Agilent 11:46:32 Mar 16, 2017</p> <p>R T</p> <p>Mkr1 2.570038 GHz -25.83 dBm</p> <p>Ref 29.9 dBm Peak Log 10 dB/ Offset 7.3 dB DI -13.0 dBm</p> <p>M1 S2 S3 FC AA</p> <p>Center 2.57 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 79.99 ms (8000 pts)</p>
<p>LTE band VII - Low Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(194.4/100)=4.5+2.9=7.4\text{ dB}</math></p>	<p>LTE band VII - High Channel 16QAM-20</p> <p>Note: Offset=Cable loss (4.5) + 10log <math>(192.3/100)=4.5+2.8=7.3\text{ dB}</math></p>

## 6.9 Frequency Stability

Temperature	22°C
Relative Humidity	53%
Atmospheric Pressure	1010mbar
Test date :	March 13, 2017
Tested By :	Loren Luo

### 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																																

Test setup	 <p><b>Base Station</b></p> <p><b>EUT</b></p> <p><b>Thermal Chamber</b></p>
Procedure	<p>A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.</p> <p>Limit: The frequency stability of the transmitter shall be maintained within <math>\pm 0.00025\%</math> (<math>\pm 2.5\text{ppm}</math>) of the center frequency.</p>
Remark	<p>Frequency Stability versus Temperature: The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of <math>-10^\circ\text{C}</math> to <math>+55^\circ\text{C}</math> at normal supply voltage.</p>
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

Middle Channel, $f_0 = 1880$ MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.8	-6	0.0032	2.5
0		-9	0.0048	2.5
10		-7	0.0037	2.5
20		-13	0.0069	2.5
30		-6	0.0032	2.5
40		-5	0.0027	2.5
50		-11	0.0059	2.5
55		-13	0.0069	2.5
25		-9	0.0048	2.5
	4.3	-8	0.0043	2.5
	3.3			

### LTE band IV (Part 27) result

Middle Channel, $f_0 = 1732.5$ MHz				
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.8	-9	0.0052	2.5
0		-14	0.0081	2.5
10		-12	0.0069	2.5
20		-9	0.0052	2.5
30		-6	0.0035	2.5
40		-10	0.0058	2.5
50		-11	0.0063	2.5
55		-13	0.0075	2.5
25		-7	0.0040	2.5
	4.3	-10	0.0058	2.5
	3.3			

### LTE band VII (Part 27) result

Middle Channel, $f_0 = 2535$ MHz				
Temperature (°C)	Power Supplied (V <sub>dc</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.8	-9	0.0036	2.5
0		-11	0.0043	2.5
10		-14	0.0055	2.5
20		-7	0.0028	2.5
30		-9	0.0036	2.5
40		-8	0.0032	2.5
50		-6	0.0024	2.5
55		-13	0.0051	2.5
25		-2	0.0008	2.5
	4.3	-8	0.0032	2.5
	3.3			

### LTE band XVII (Part 27) result

Middle Channel, $f_0 = 710$ MHz				
Temperature (°C)	Power Supplied (V <sub>dc</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	3.8	-6	0.0085	2.5
0		-4	0.0056	2.5
10		-6	0.0085	2.5
20		-6	0.0085	2.5
30		-9	0.0127	2.5
40		-9	0.0127	2.5
50		-5	0.0070	2.5
55		-5	0.0070	2.5
25		-10	0.0141	2.5
	4.3	-8	0.0113	2.5
	3.3			

## Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
<b>RF Conducted Test</b>					
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/15/2016	09/14/2017	<input checked="" type="checkbox"/>
Power Splitter	1#	1#	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	<input checked="" type="checkbox"/>
Temperature/Humidity Chamber	UHL-270	001	10/08/2016	10/07/2017	<input checked="" type="checkbox"/>
DC Power Supply	E3640A	MY40004013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
RF Power Sensor	Dare RPR3006C/P/W	AY554013	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
<b>Radiated Emissions</b>					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/20/2016	09/19/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	<input checked="" type="checkbox"/>
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/16/2016	09/15/2017	<input checked="" type="checkbox"/>
Power Amplifier	SMC150D	R1553-0313	03/08/2017	03/07/2018	<input checked="" type="checkbox"/>
Power Amplifier	S41-25D	R1553-0314	05/27/2016	05/26/2017	<input checked="" type="checkbox"/>
Tunable Notch Filter	3NF-800/1000-S	AA4	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>



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Tunable Notch Filter	3NF- 1000/2000-S	AM 4	08/31/2016	08/30/2017	<input checked="" type="checkbox"/>
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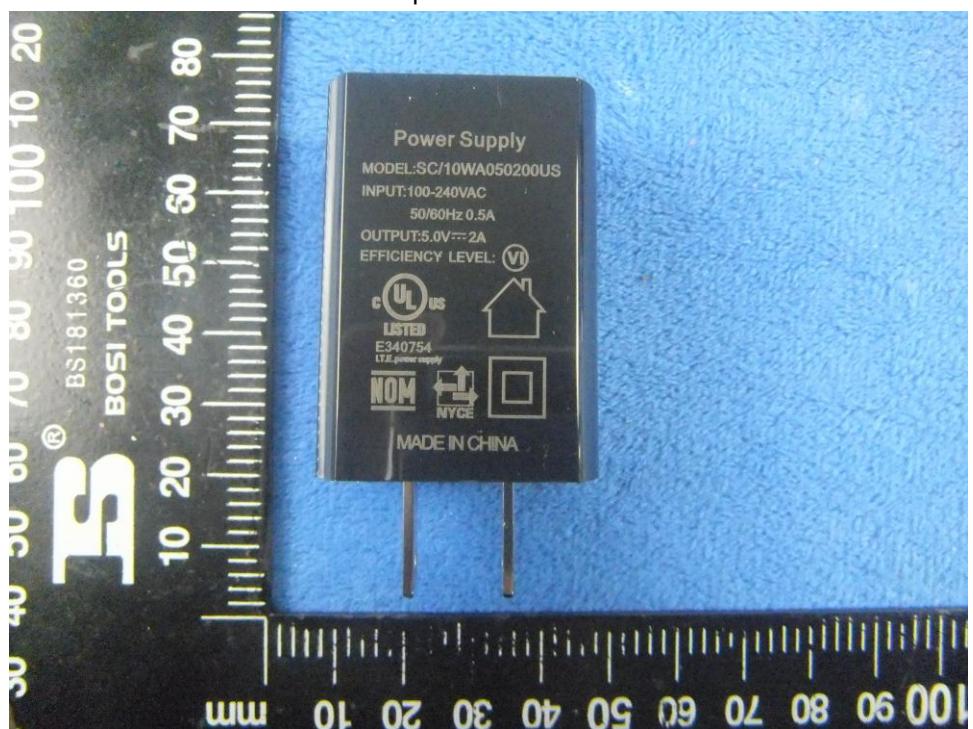
## Annex B. EUT And Test Setup Photographs

### Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Label View



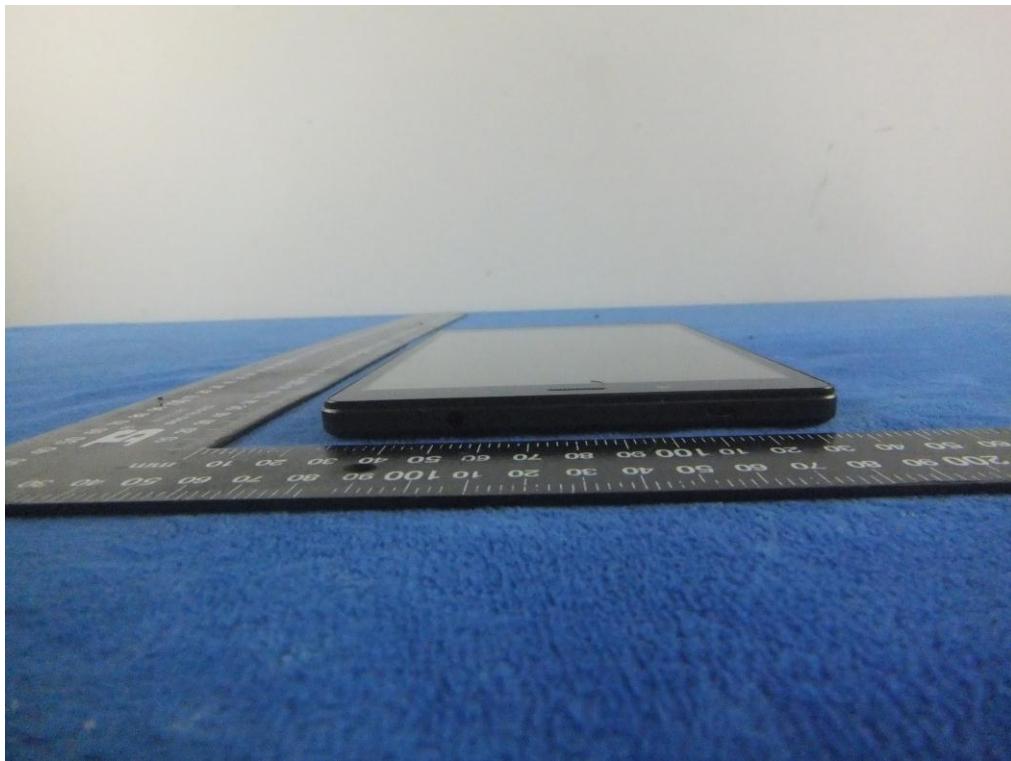
EUT - Front View



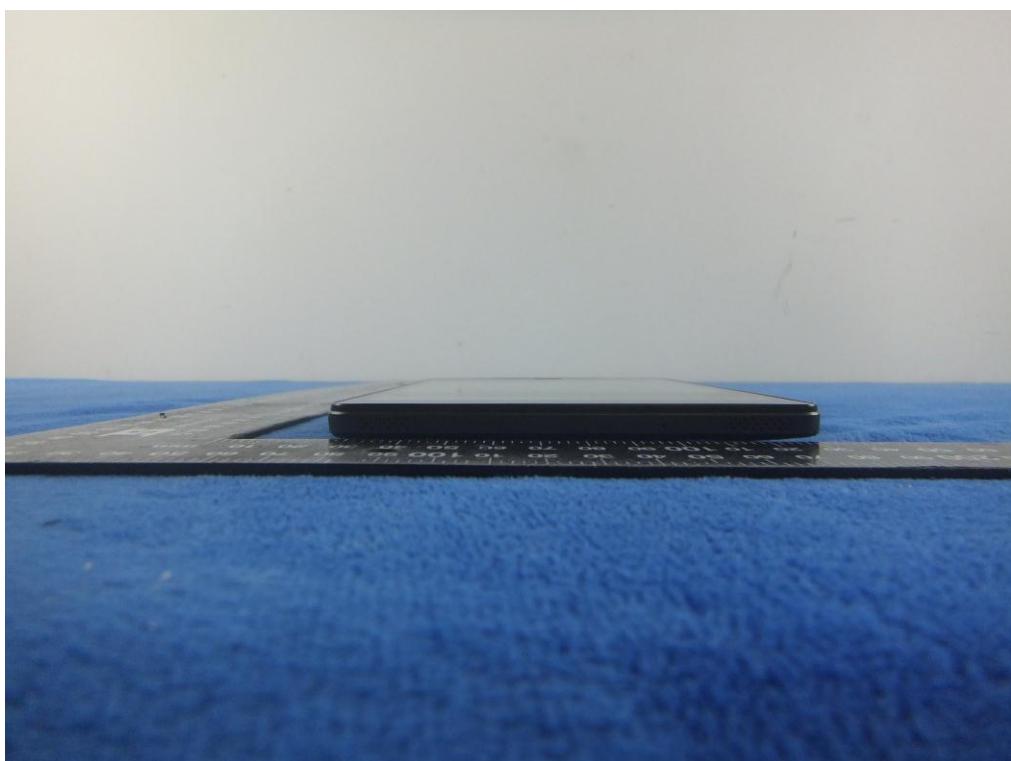
EUT - Rear View



EUT - Top View



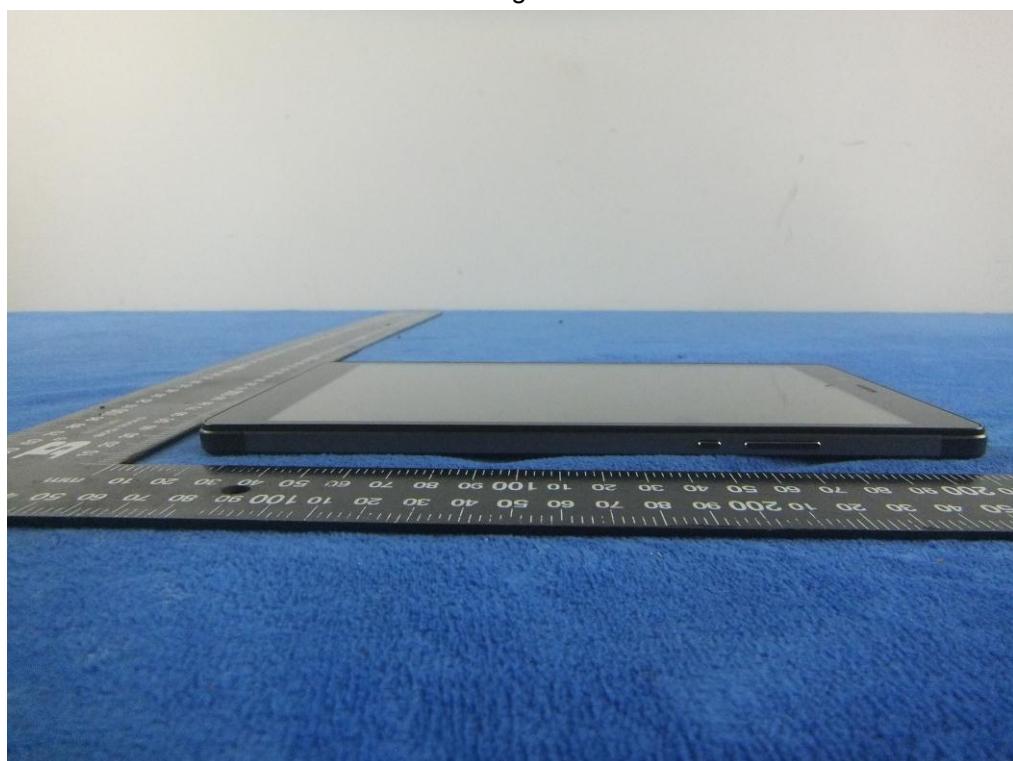
EUT - Bottom View



EUT - Left View



EUT - Right View



### Annex B.ii. Photograph: EUT Internal Photo

Cover Off - Top View 1



Cover Off - Top View 2

