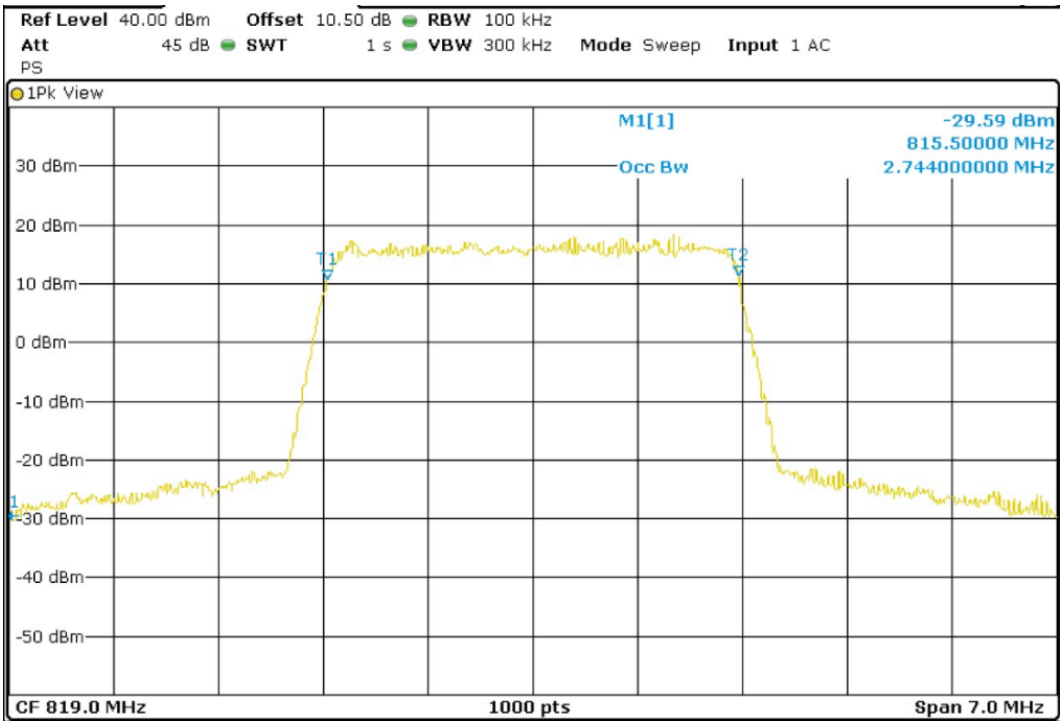
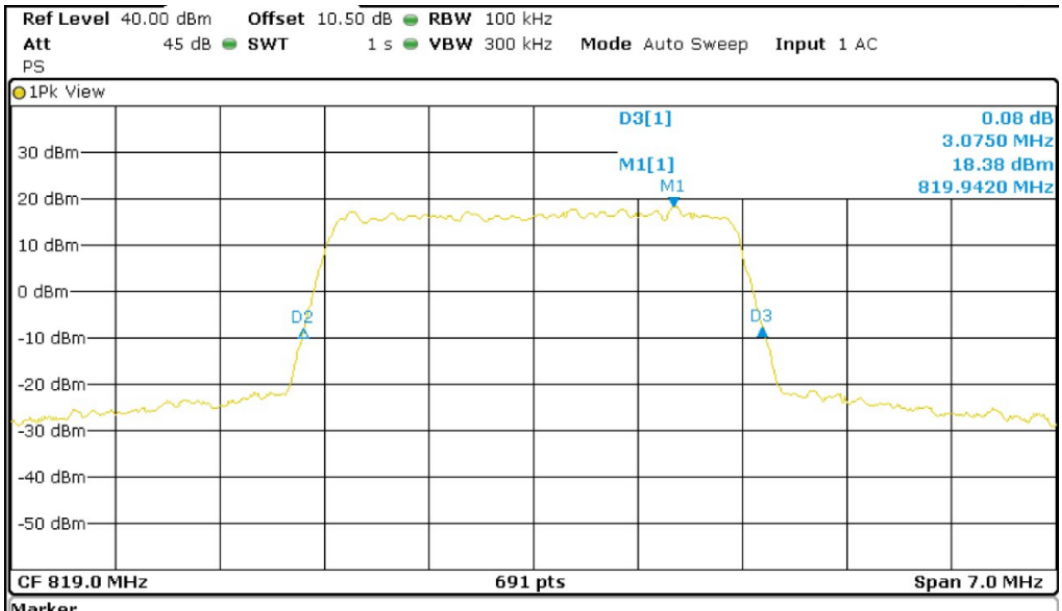
TEST RESULTS (Cont):	

Middle Channel 99% Occupied Bandwidth



Middle Channel 26dBc Bandwidth kHz

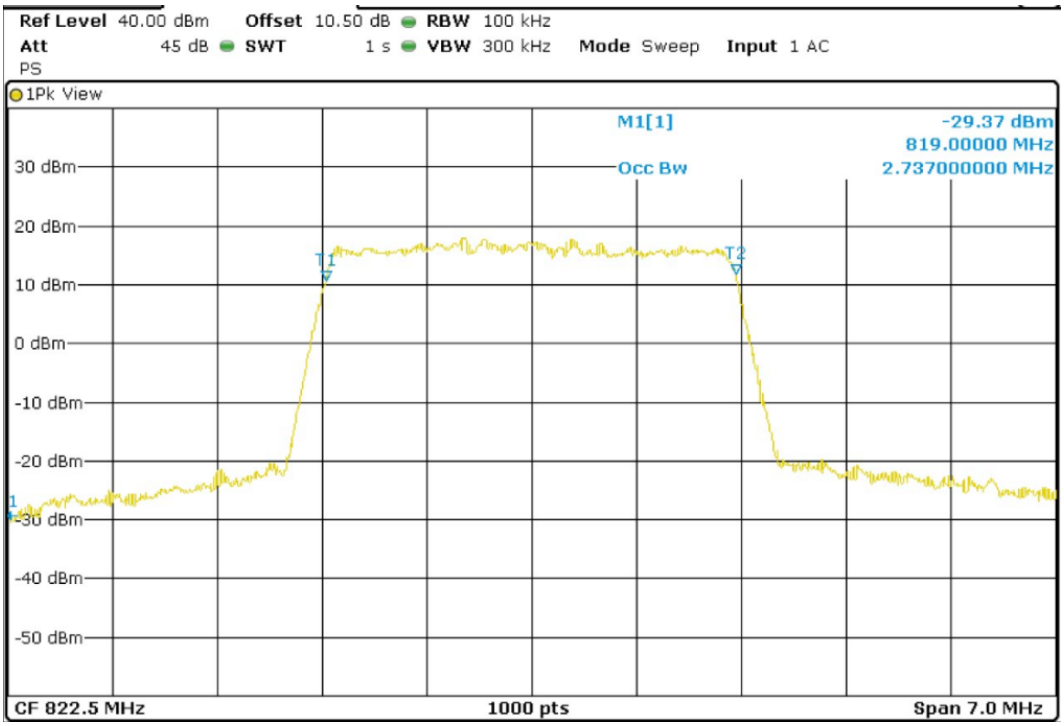


Marker

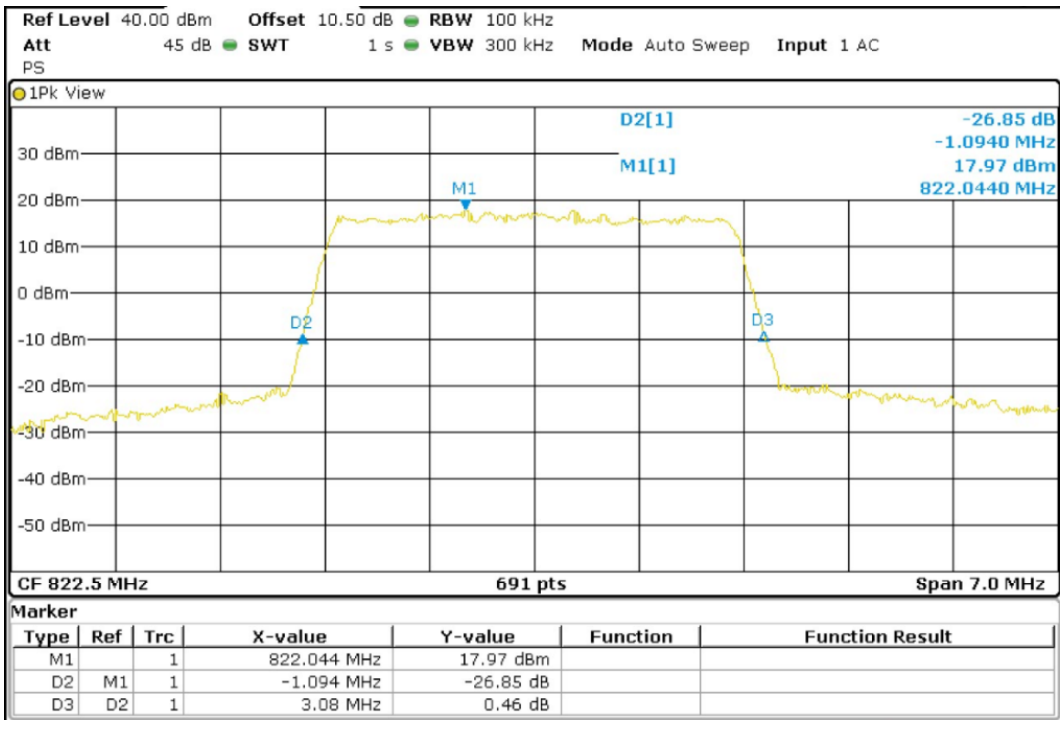
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	819.942 MHz	18.38 dBm		
D2	M1	1	-2.482 MHz	-26.24 dB		
D3	D2	1	3.075 MHz	0.08 dB		

TEST RESULTS (Cont):	

Highest Channel 99% Occupied Bandwidth



Highest Channel 26dBc Bandwidth kHz



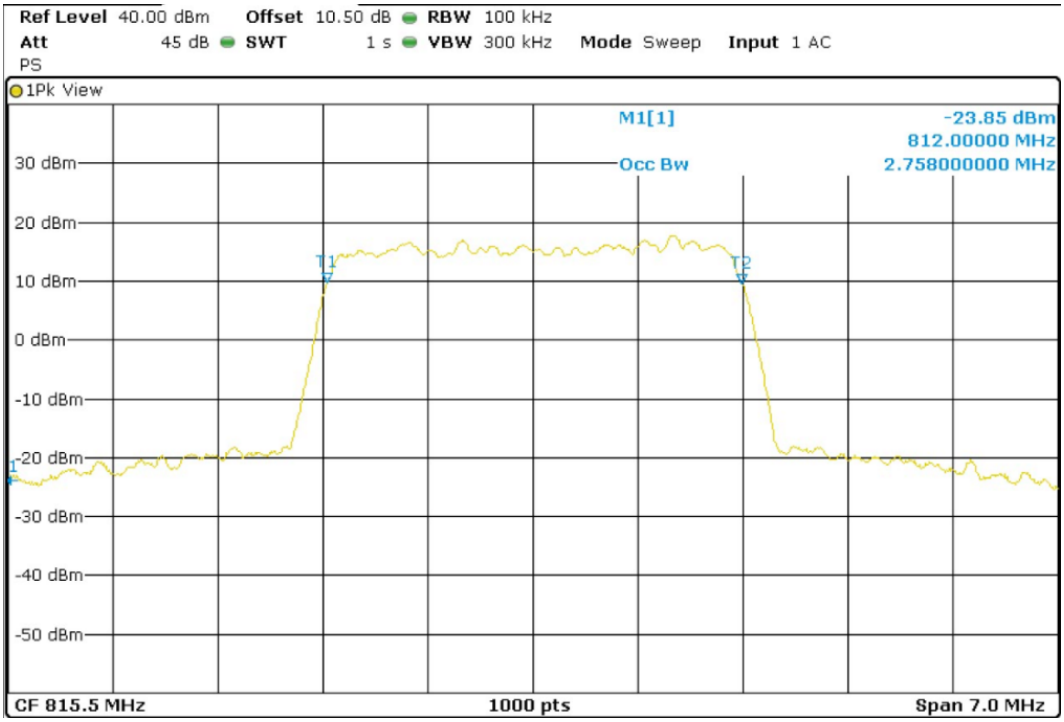
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	822.044 MHz	17.97 dBm		
D2	M1	1	-1.094 MHz	-26.85 dB		
D3	D2	1	3.08 MHz	0.46 dB		

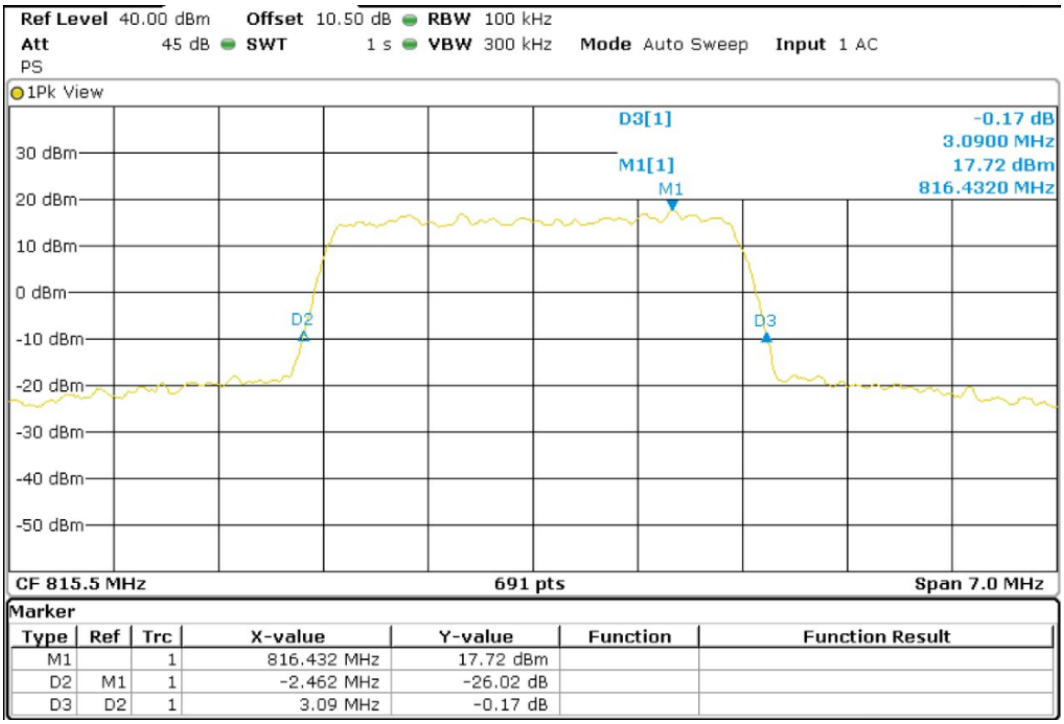
TEST RESULTS (Cont):	

LTE 16 QAM MODULATION. BW = 3 MHz

Lowest Channel 99% Occupied Bandwidth

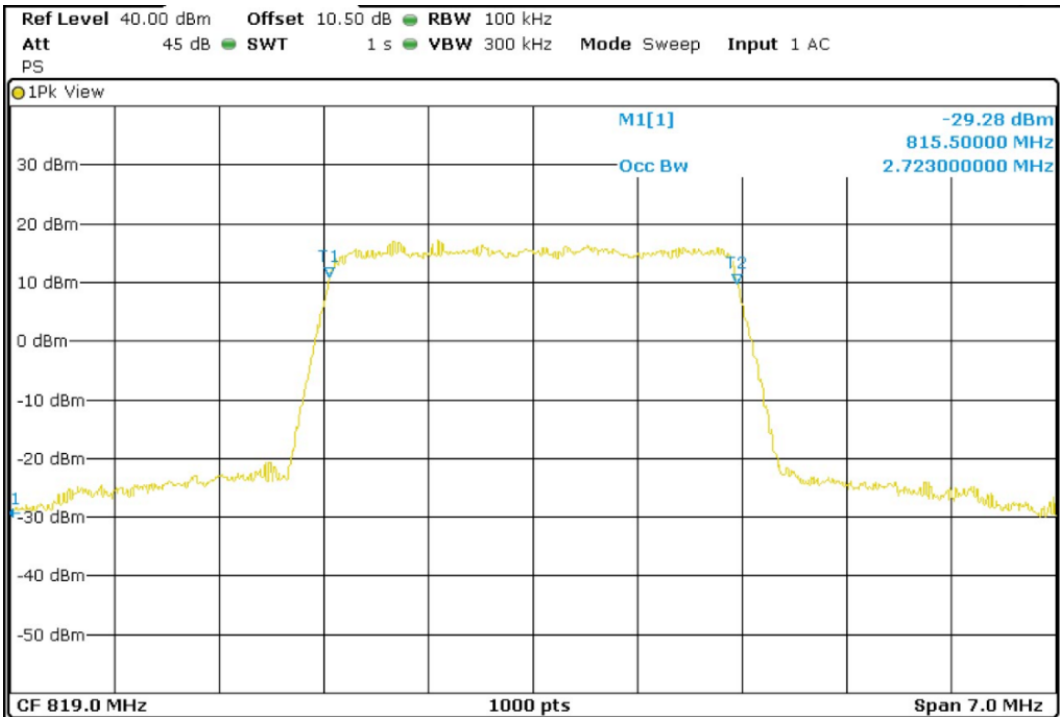


Lowest Channel -26dBc Bandwidth kHz

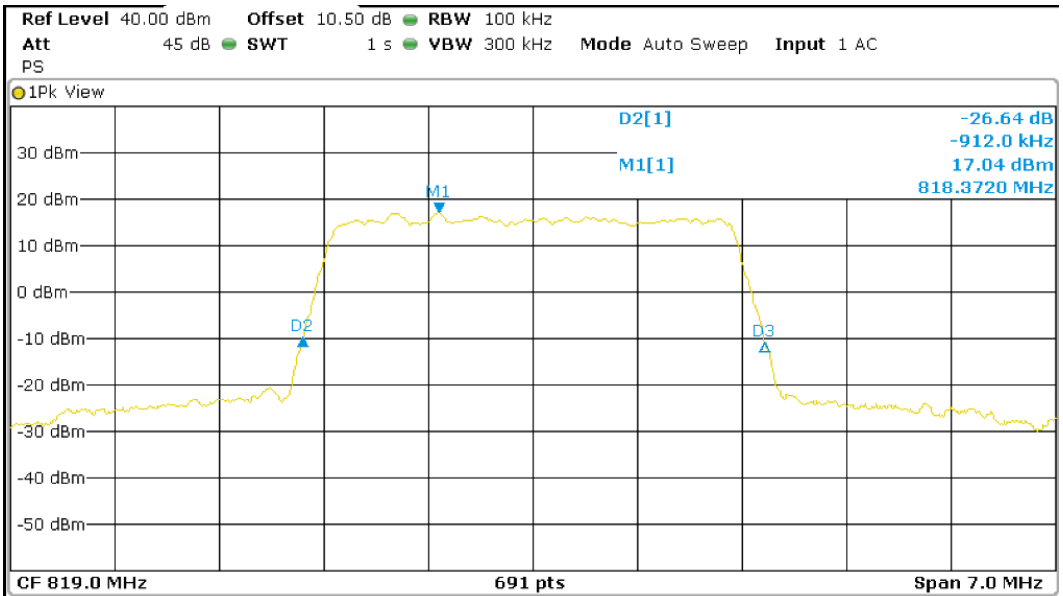


TEST RESULTS (Cont):	

Middle Channel 99% Occupied Bandwidth



Middle Channel 26dBc Bandwidth kHz

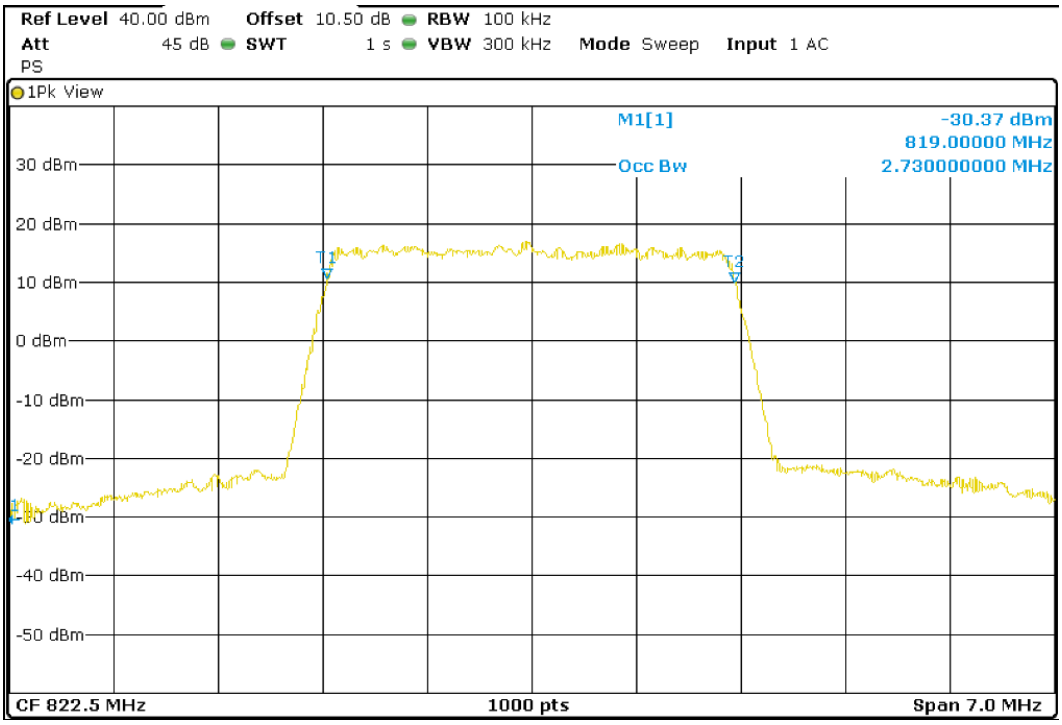


Marker

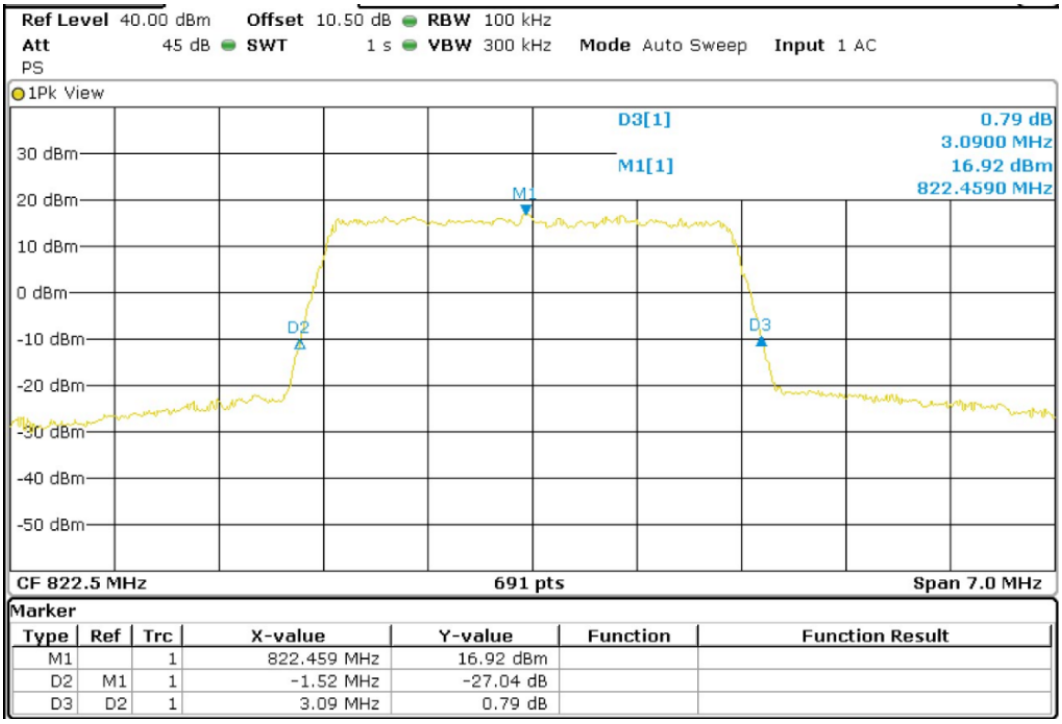
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	818.372 MHz	17.04 dBm		
D2	M1	1	-912.0 kHz	-26.64 dB		
D3	D2	1	3.085 MHz	-1.30 dB		

TEST RESULTS (Cont):	

Highest Channel 99% Occupied Bandwidth



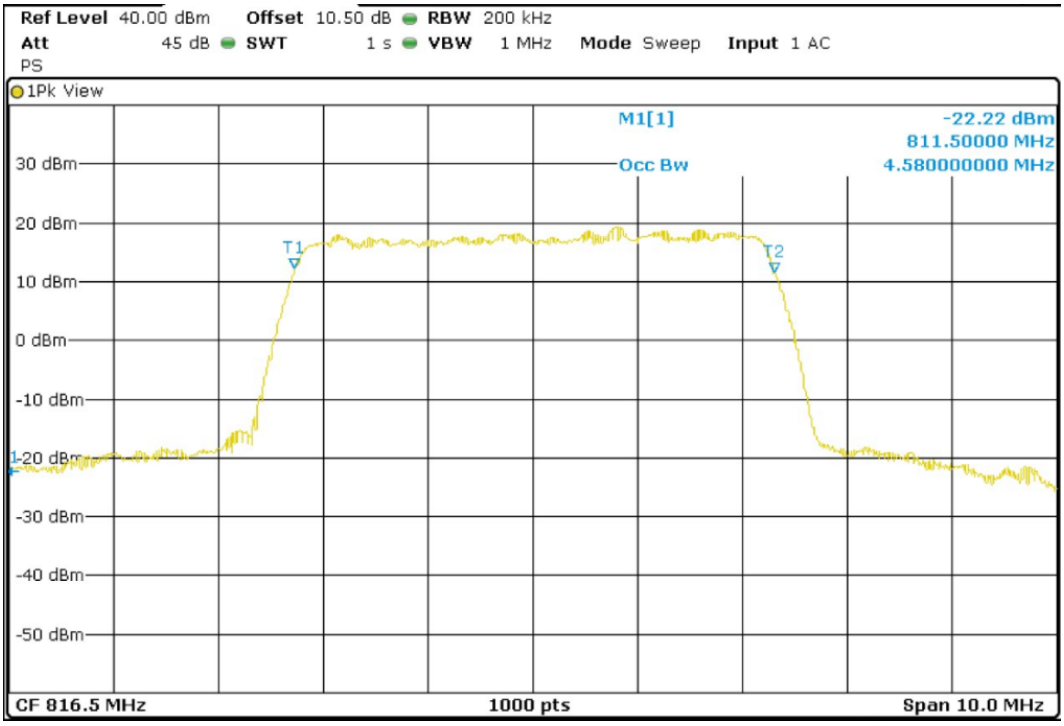
Highest Channel 26dBc Bandwidth kHz



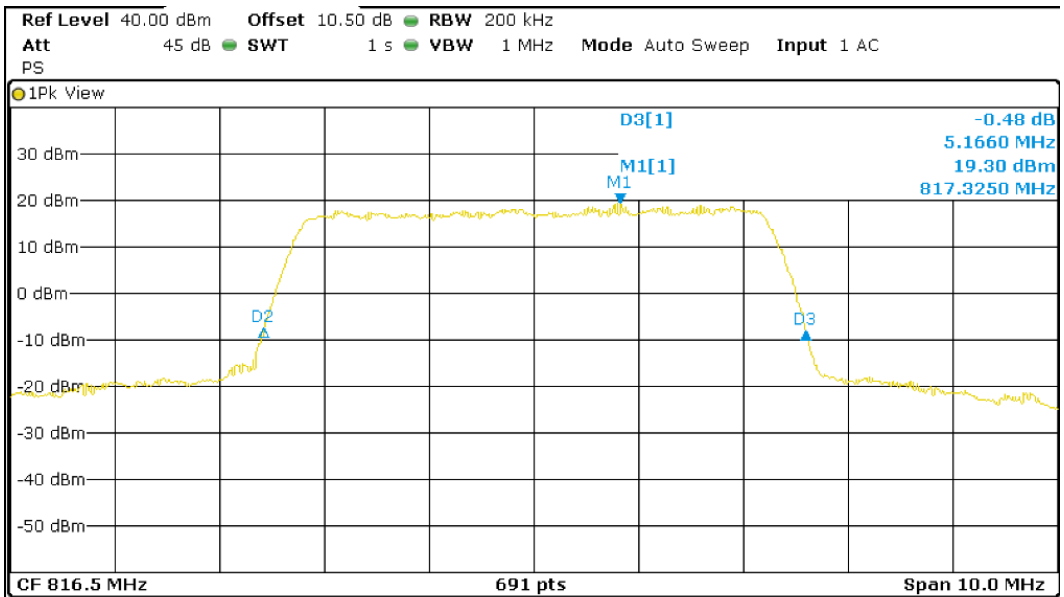
TEST RESULTS (Cont):	

LTE QPSK MODULATION. BW = 5 MHz

Lowest Channel 99% Occupied Bandwidth



Lowest Channel -26dBc Bandwidth kHz

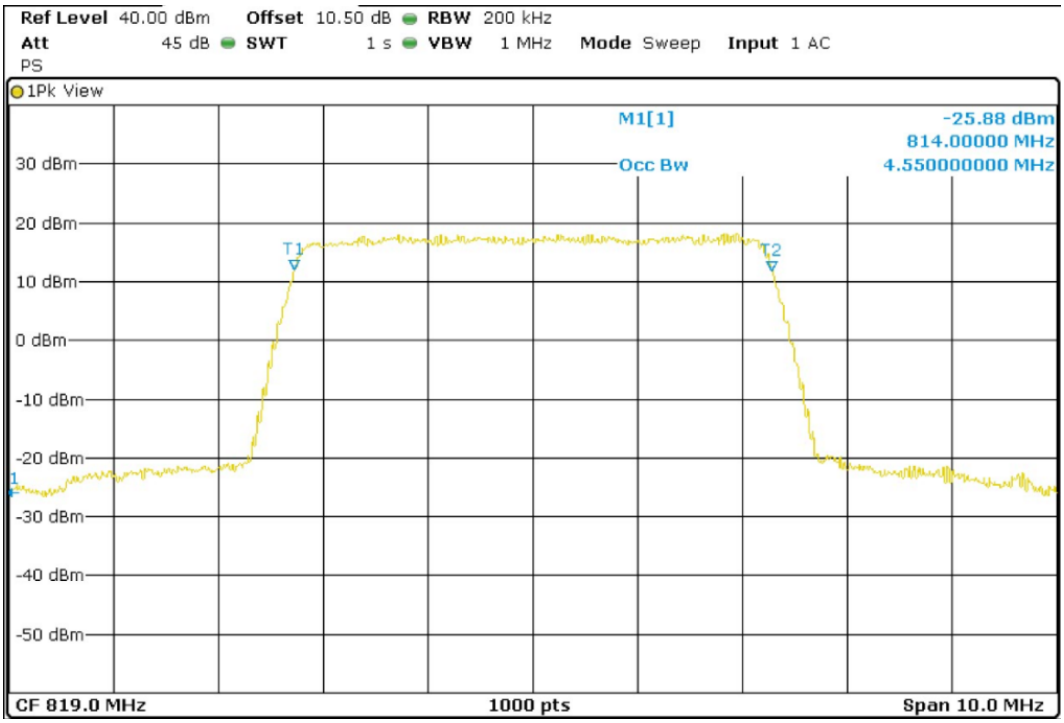


Marker

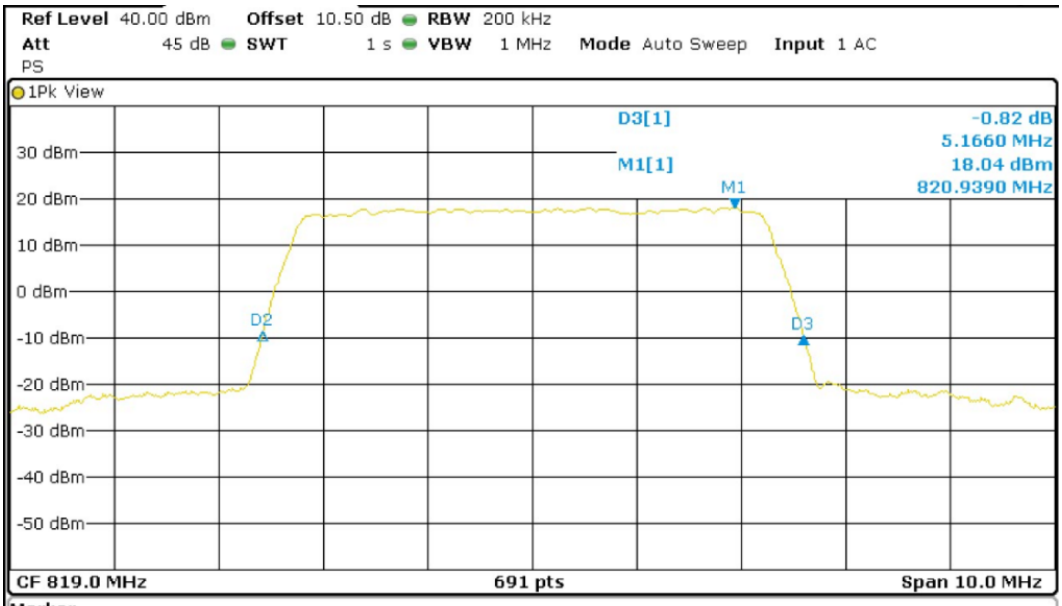
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	817.325 MHz	19.30 dBm		
D2	M1	1	-3.401 MHz	-26.77 dB		
D3	D2	1	5.166 MHz	-0.48 dB		

TEST RESULTS (Cont):	

Middle Channel 99% Occupied Bandwidth



Middle Channel 26dBc Bandwidth kHz

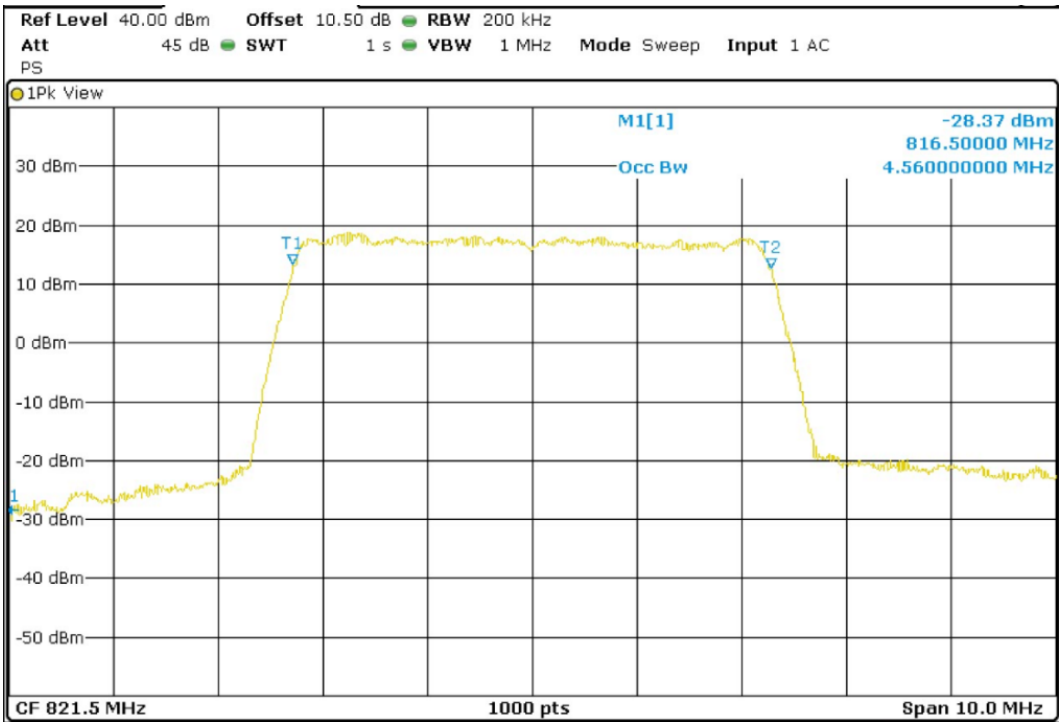


Marker

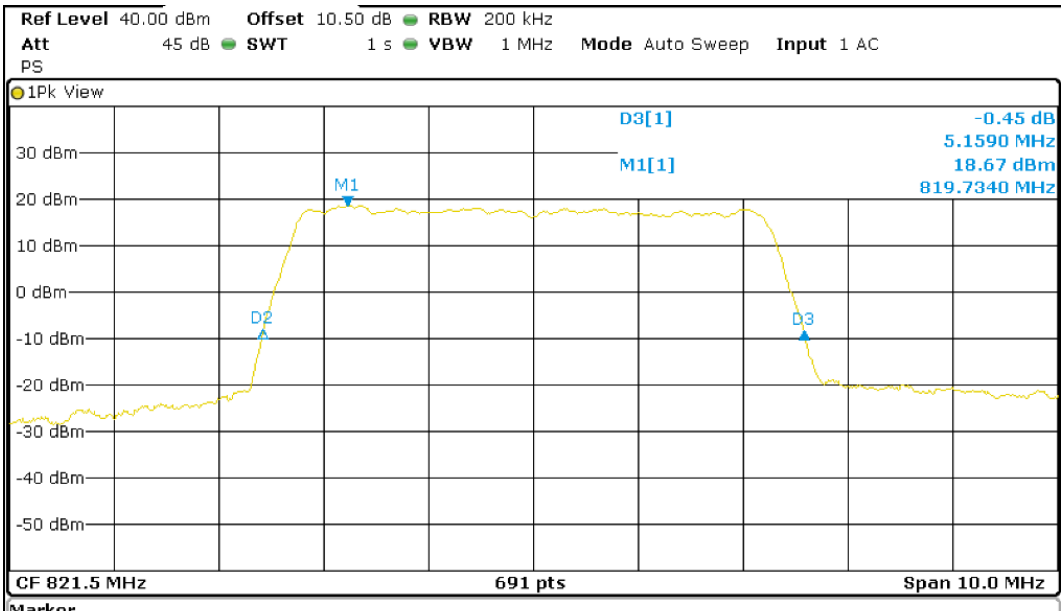
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	820.939 MHz	18.04 dBm		
D2	M1	1	-4.515 MHz	-26.52 dB		
D3	D2	1	5.166 MHz	-0.82 dB		

TEST RESULTS (Cont):	

Highest Channel 99% Occupied Bandwidth



Highest Channel 26dBc Bandwidth kHz



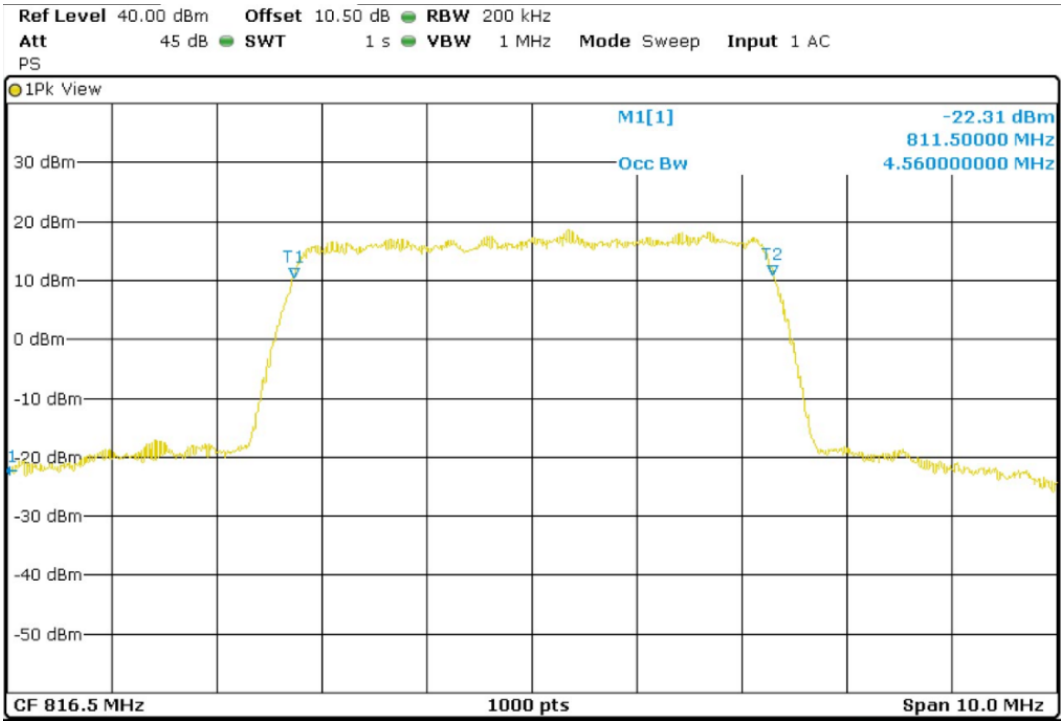
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	819.734 MHz	18.67 dBm		
D2	M1	1	-810.0 kHz	-26.61 dB		
D3	D2	1	5.159 MHz	-0.45 dB		

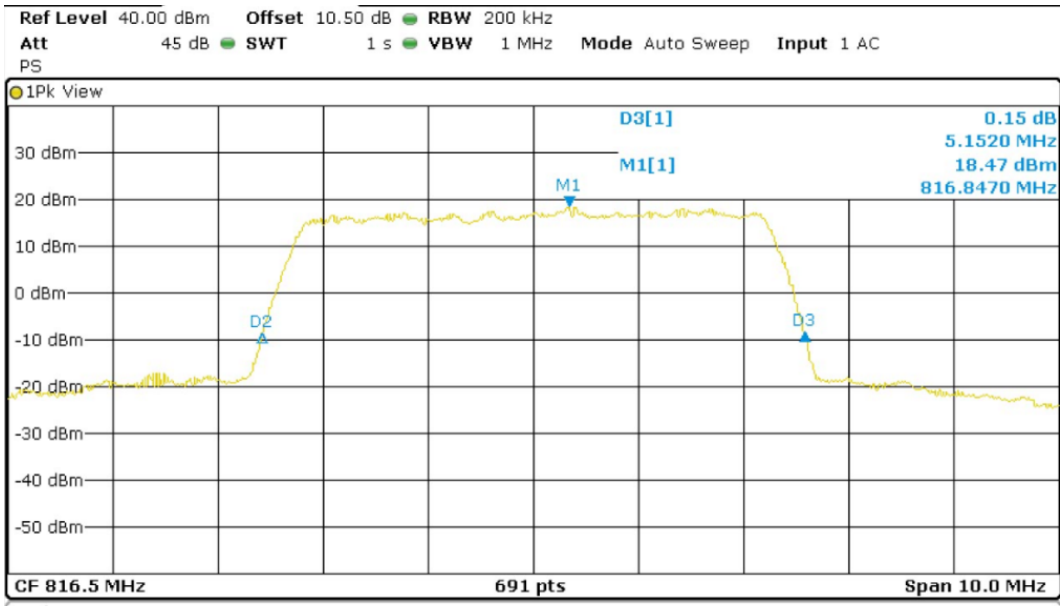
TEST RESULTS (Cont):	

LTE 16 QAM MODULATION. BW = 5 MHz

Lowest Channel 99% Occupied Bandwidth



Lowest Channel -26dBc Bandwidth kHz

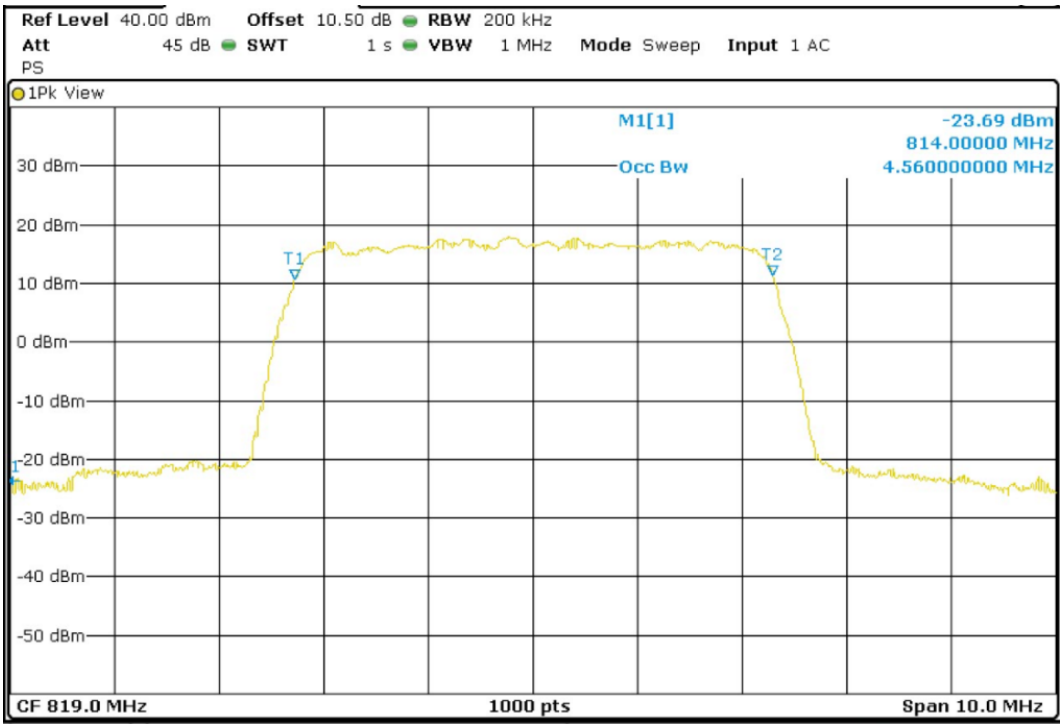


Marker

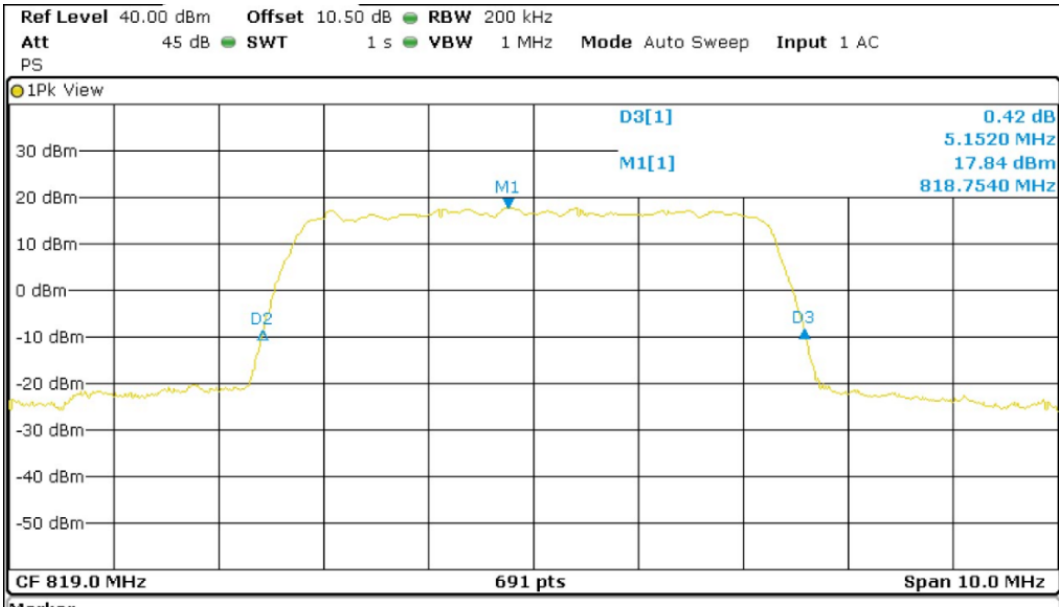
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	816.847 MHz	18.47 dBm		
D2	M1	1	-2.923 MHz	-27.02 dB		
D3	D2	1	5.152 MHz	0.15 dB		

TEST RESULTS (Cont):	

Middle Channel 99% Occupied Bandwidth



Middle Channel 26dBc Bandwidth kHz

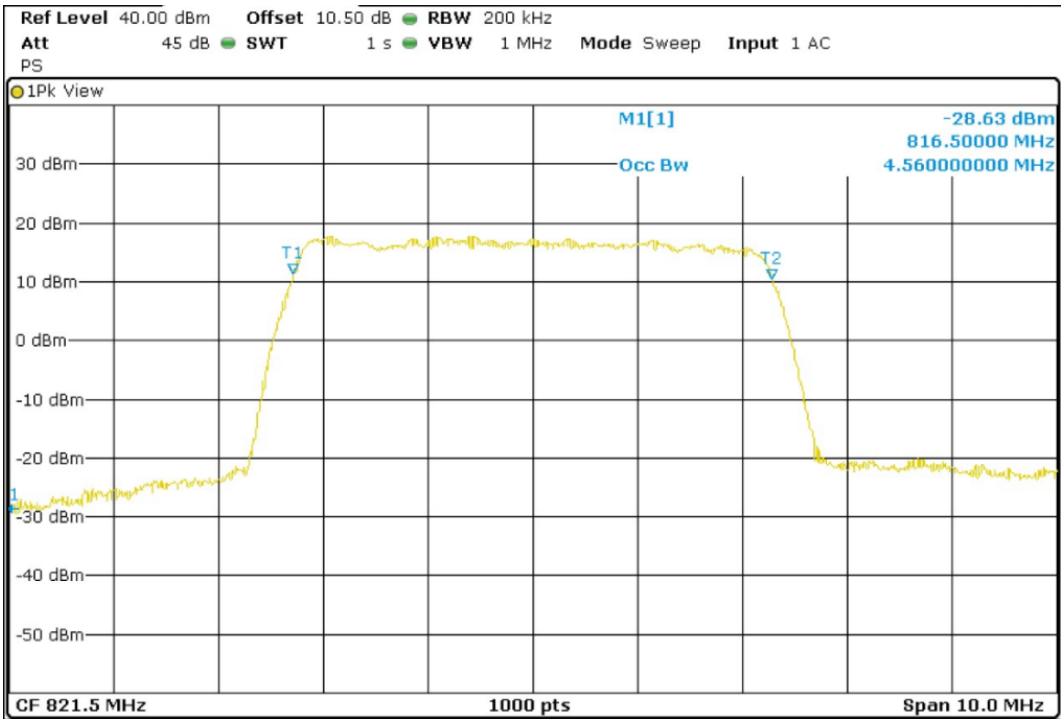


Marker

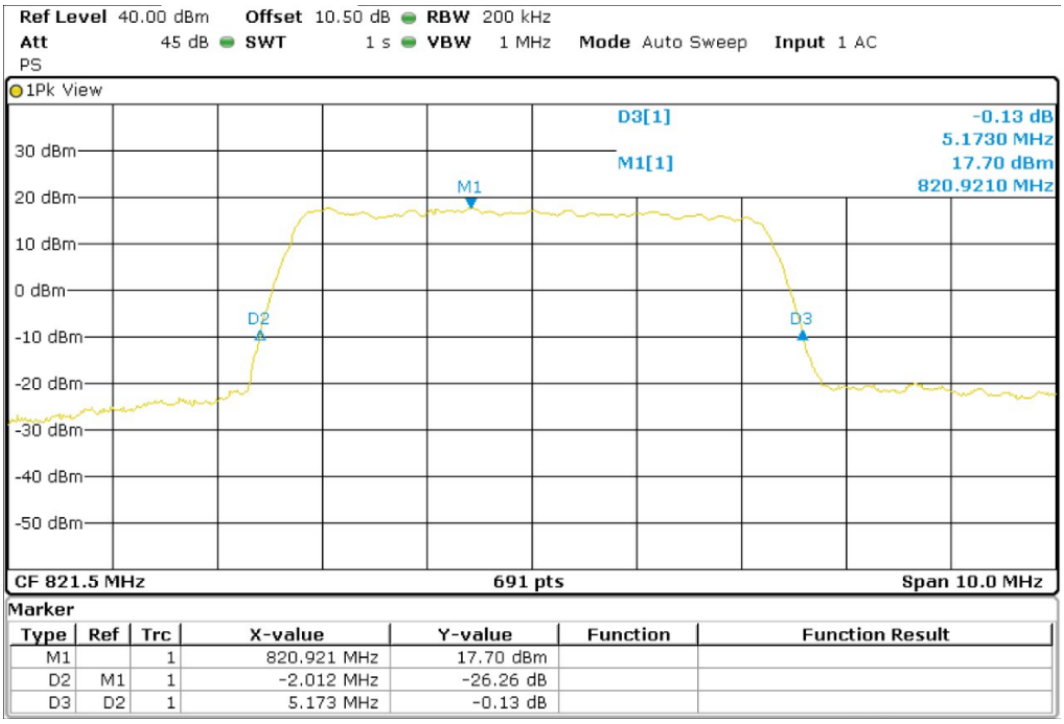
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	818.754 MHz	17.84 dBm		
D2	M1	1	-2.33 MHz	-26.53 dB		
D3	D2	1	5.152 MHz	0.42 dB		

TEST RESULTS (Cont):	

Highest Channel 99% Occupied Bandwidth



Highest Channel 26dBc Bandwidth kHz



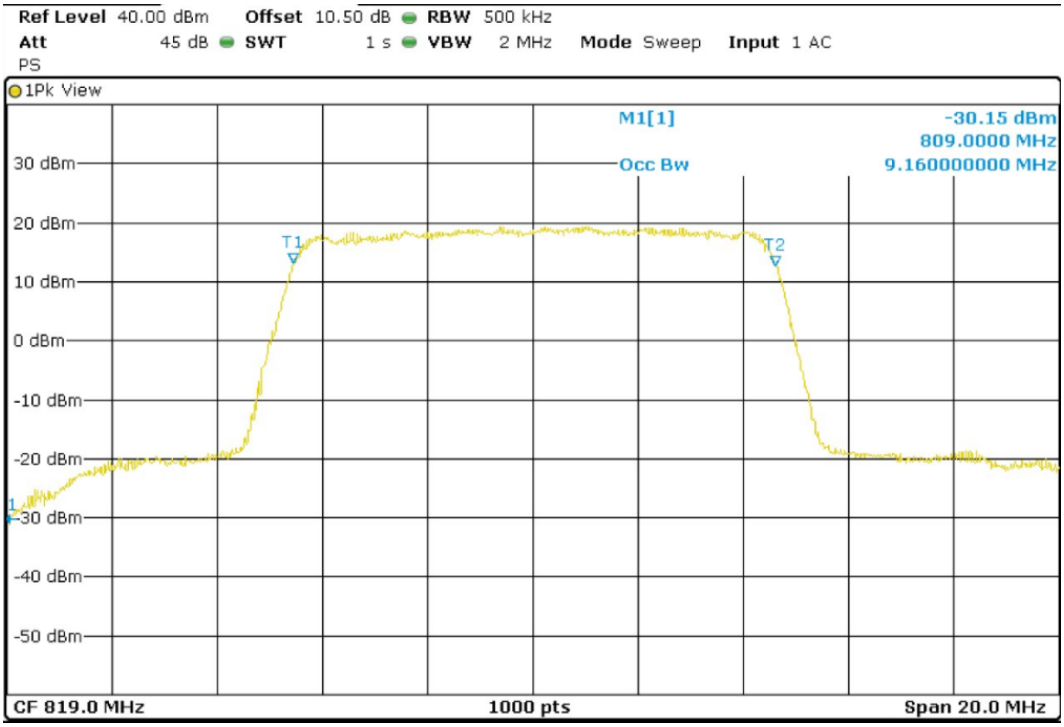
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	820.921 MHz	17.70 dBm		
D2	M1	1	-2.012 MHz	-26.26 dB		
D3	D2	1	5.173 MHz	-0.13 dB		

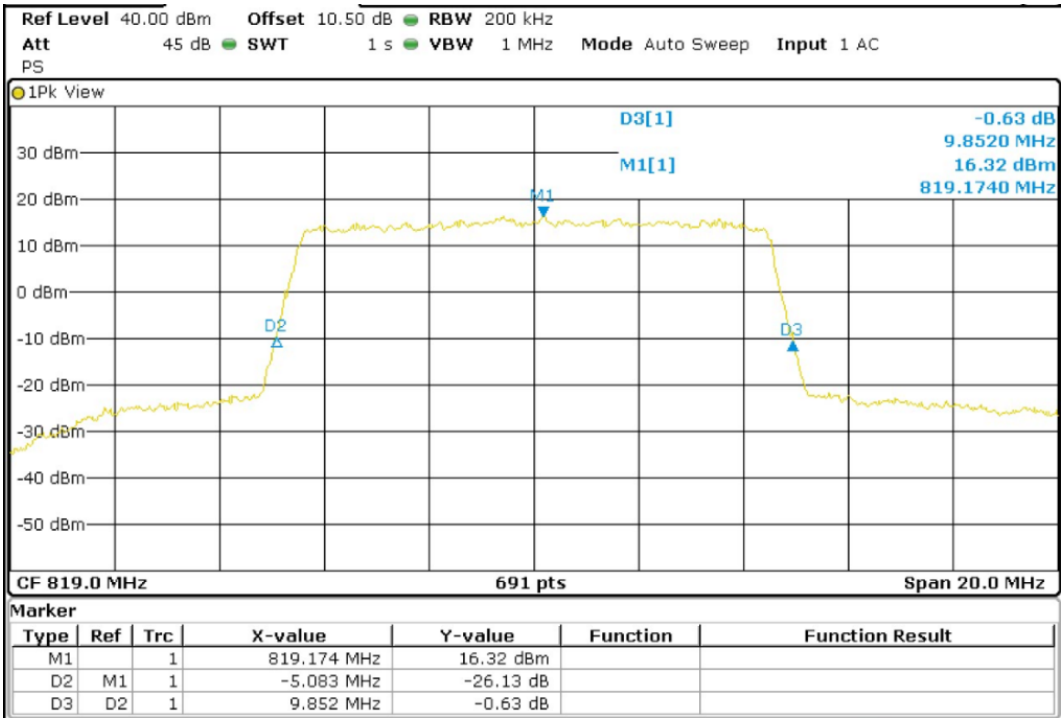
TEST RESULTS (Cont):	

LTE QPSK MODULATION. BW = 10 MHz

99% Occupied Bandwidth



-26dBc Bandwidth kHz



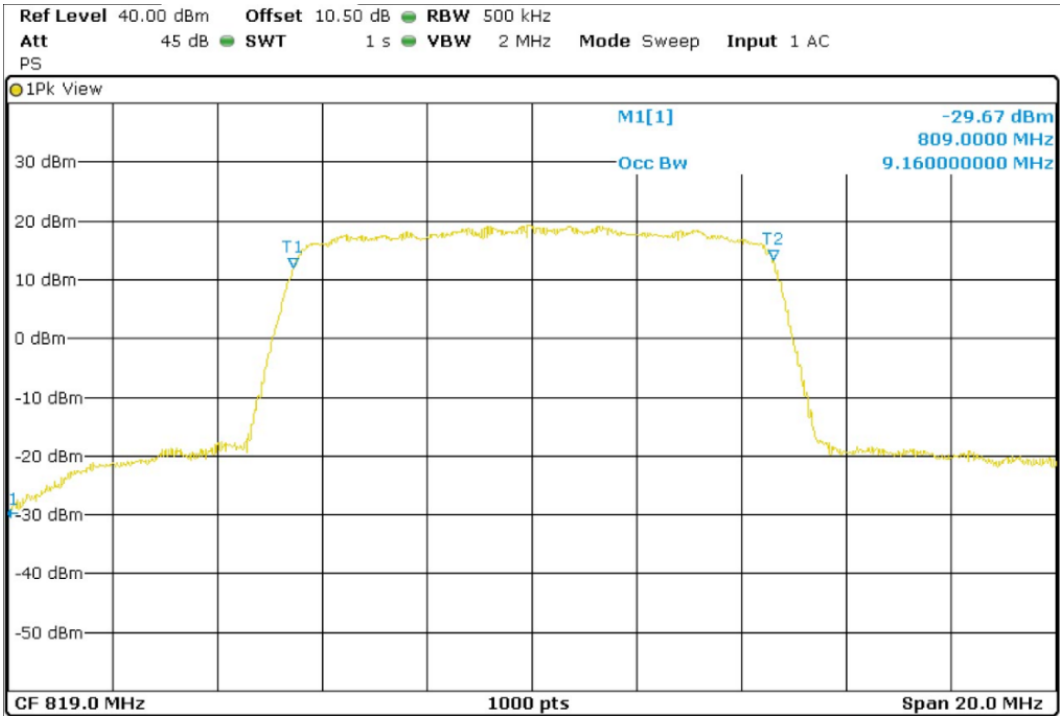
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	819.174 MHz	16.32 dBm		
D2	M1	1	-5.083 MHz	-26.13 dB		
D3	D2	1	9.852 MHz	-0.63 dB		

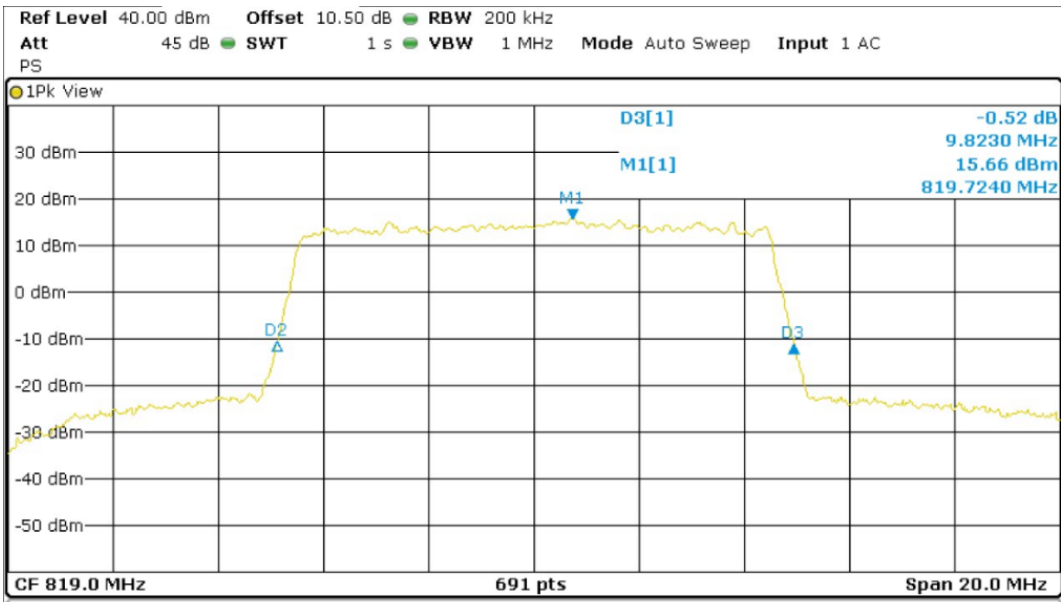
TEST RESULTS (Cont):	

LTE 16 QAM MODULATION. BW = 10 MHz

99% Occupied Bandwidth



-26dBc Bandwidth kHz



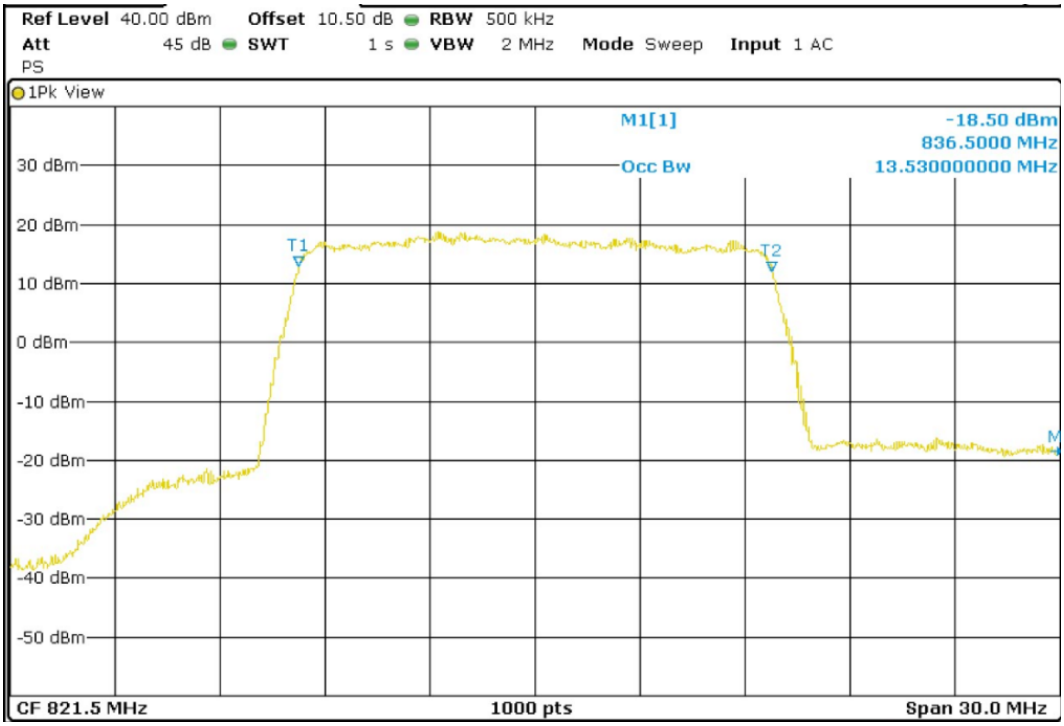
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	819.724 MHz	15.66 dBm		
D2	M1	1	-5.604 MHz	-26.23 dB		
D3	D2	1	9.823 MHz	-0.52 dB		

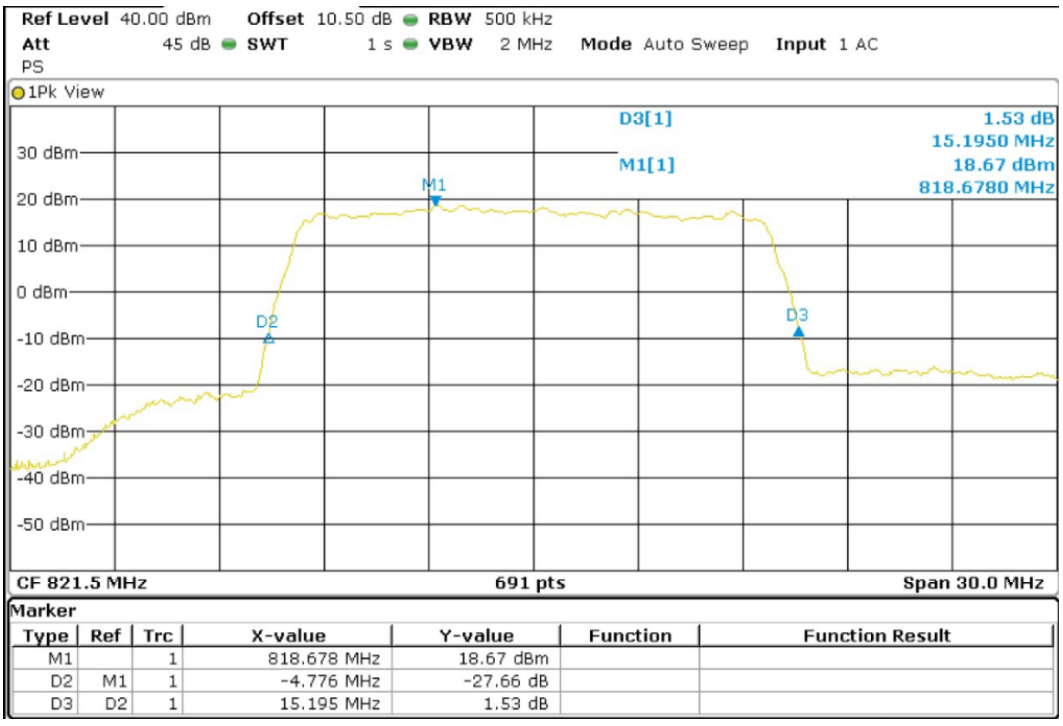
TEST RESULTS (Cont):	

LTE QPSK MODULATION. BW = 15 MHz

99% Occupied Bandwidth



26dBc Bandwidth kHz



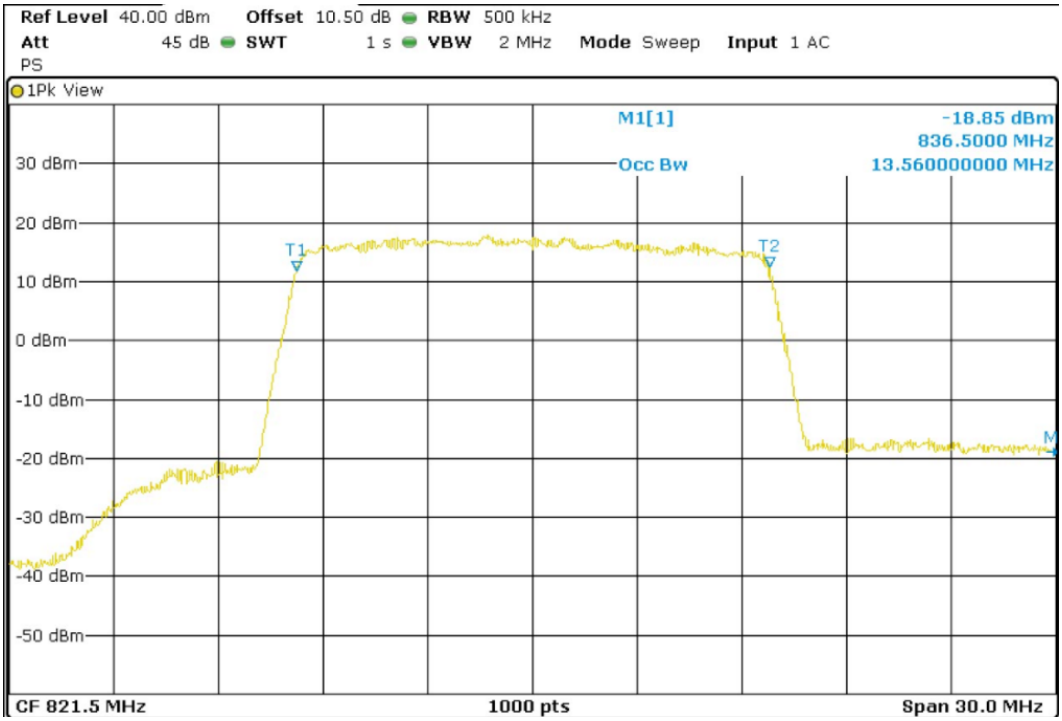
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	818.678 MHz	18.67 dBm		
D2	M1	1	-4.776 MHz	-27.66 dB		
D3	D2	1	15.195 MHz	1.53 dB		

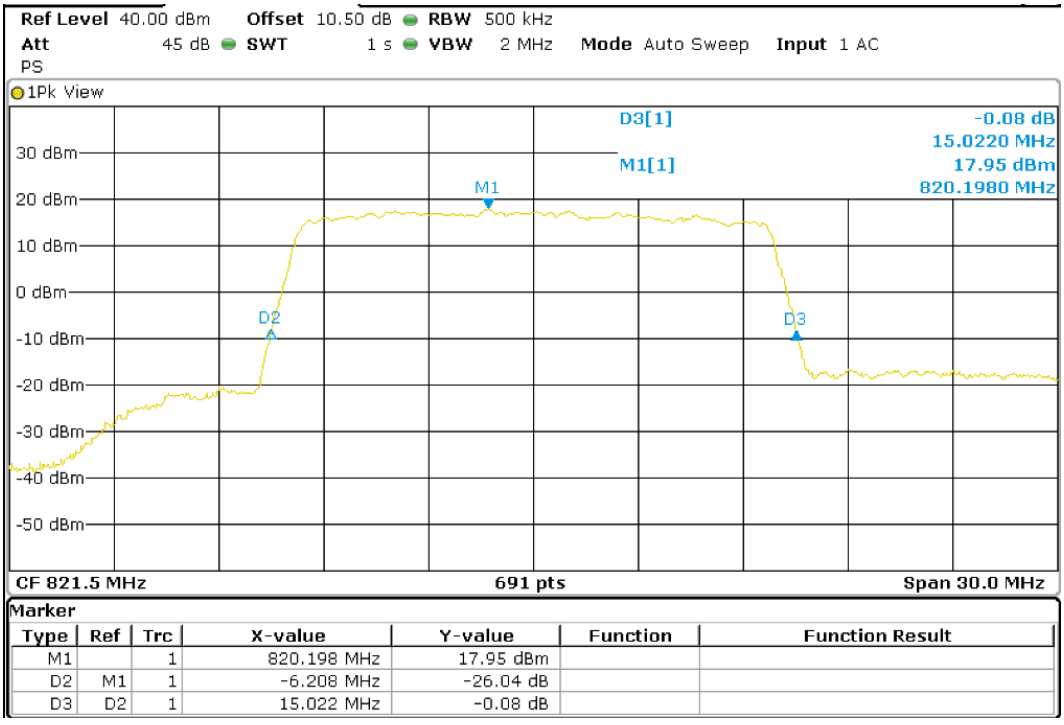
TEST RESULTS (Cont):	

LTE 16QAM MODULATION. BW = 15 MHz

99% Occupied Bandwidth



26dBc Bandwidth kHz



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	820.198 MHz	17.95 dBm		
D2	M1	1	-6.208 MHz	-26.04 dB		
D3	D2	1	15.022 MHz	-0.08 dB		

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02
TEST RESULTS:	PASS

LTE QPSK MODULATION. BW = 1.4 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	1.11

LTE 16QAM MODULATION. BW = 1.4 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	1.11

LTE QPSK MODULATION. BW = 3 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	2.70

LTE 16QAM MODULATION. BW = 3 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	2.69

LTE QPSK MODULATION. BW = 5 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	4.52

TEST RESULTS (Cont):	

LTE 16QAM MODULATION. BW = 5 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	4.50

LTE QPSK MODULATION. BW = 10 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	8.96

LTE 16QAM MODULATION. BW = 10 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	8.94

LTE QPSK MODULATION. BW = 15 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	13.44

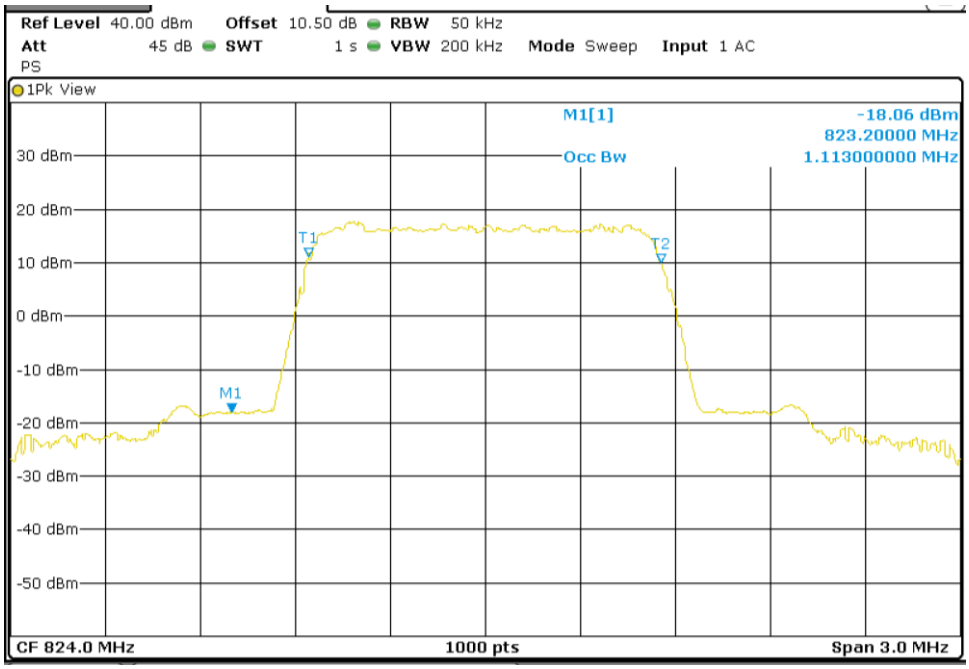
LTE 16QAM MODULATION. BW = 15 MHz

Frequency	824.0
99% Occupied bandwidth (MHz)	13.41

TEST RESULTS (Cont):	

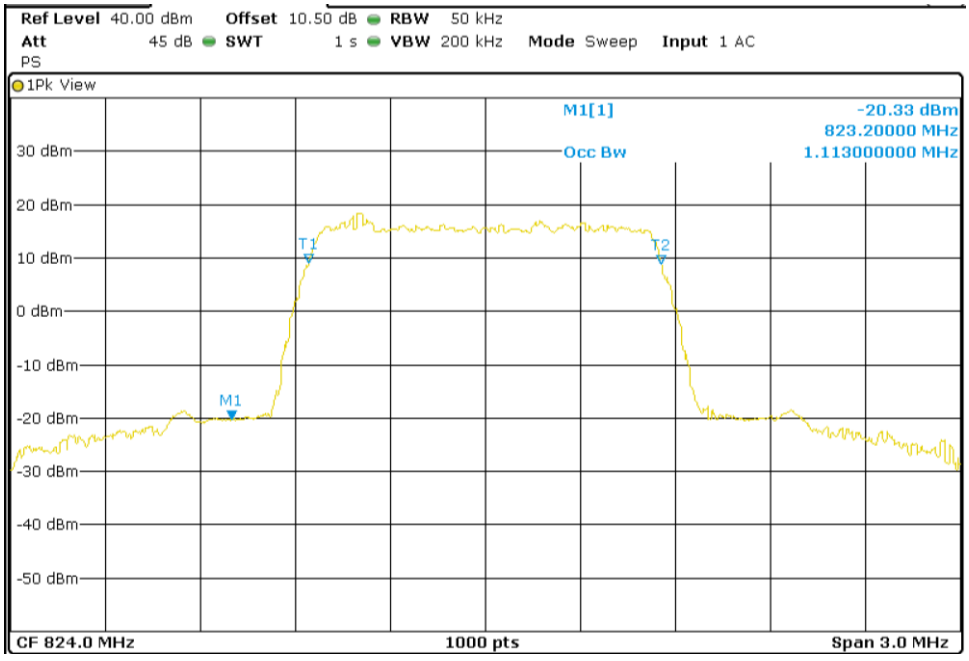
LTE QPSK MODULATION. BW = 1.4 MHz

99% Occupied Bandwidth



LTE 16QAM MODULATION. BW = 1.4 MHz

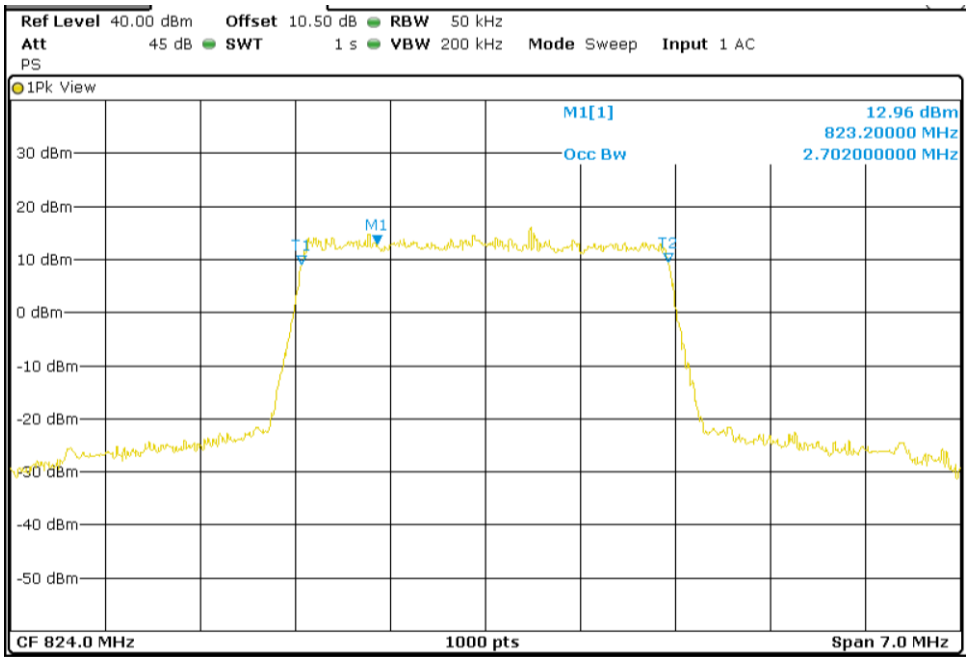
99% Occupied Bandwidth



TEST RESULTS (Cont):	

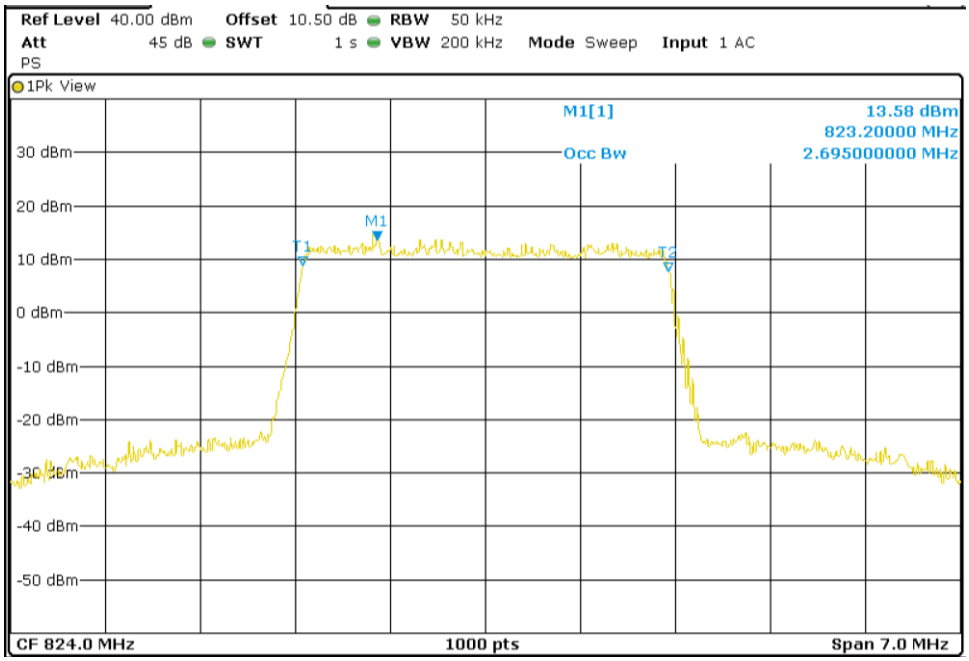
LTE QPSK MODULATION. BW = 3 MHz

99% Occupied Bandwidth



LTE 16QAM MODULATION. BW = 3 MHz

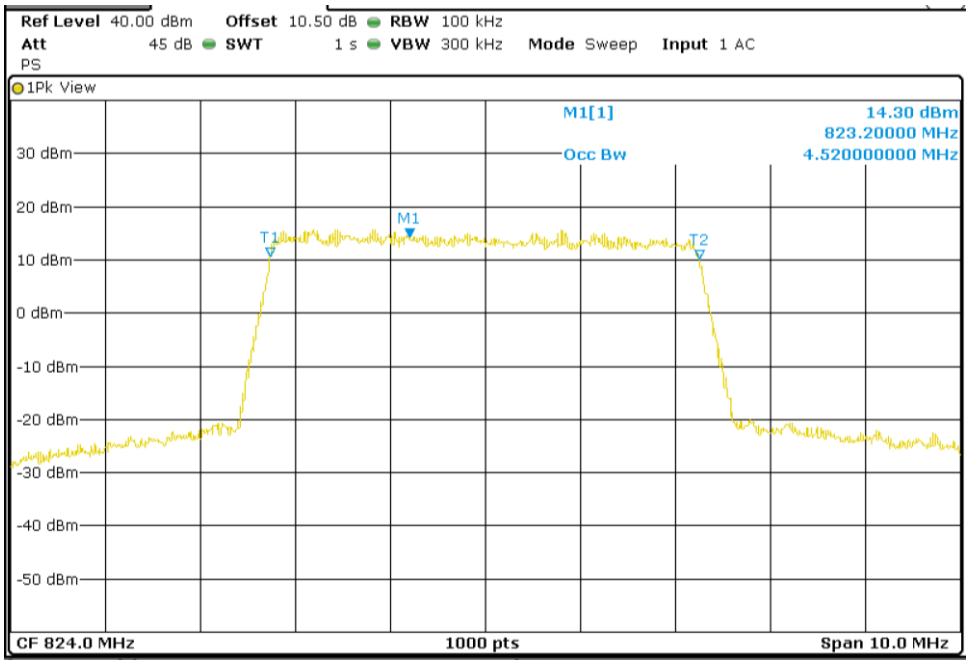
99% Occupied Bandwidth



TEST RESULTS (Cont):	

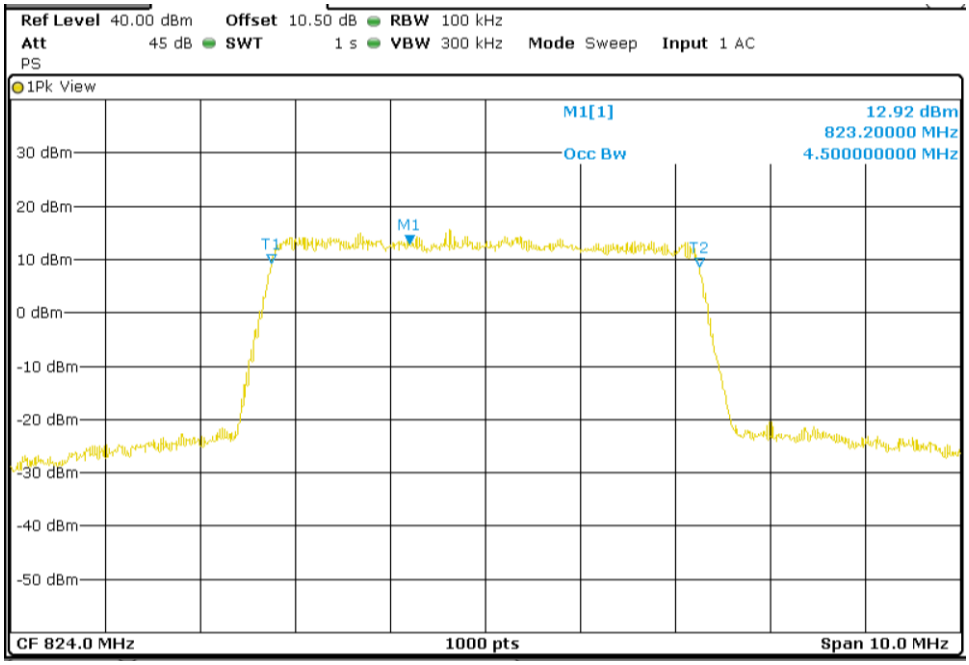
LTE QPSK MODULATION. BW = 5 MHz

99% Occupied Bandwidth



LTE 16QAM MODULATION. BW = 5 MHz

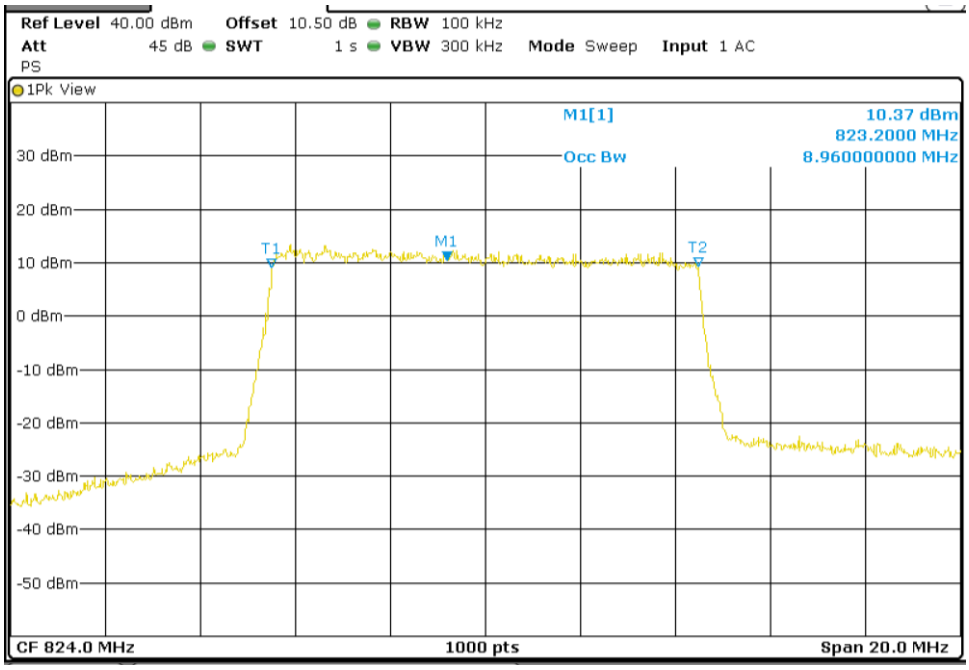
99% Occupied Bandwidth



TEST RESULTS (Cont):	

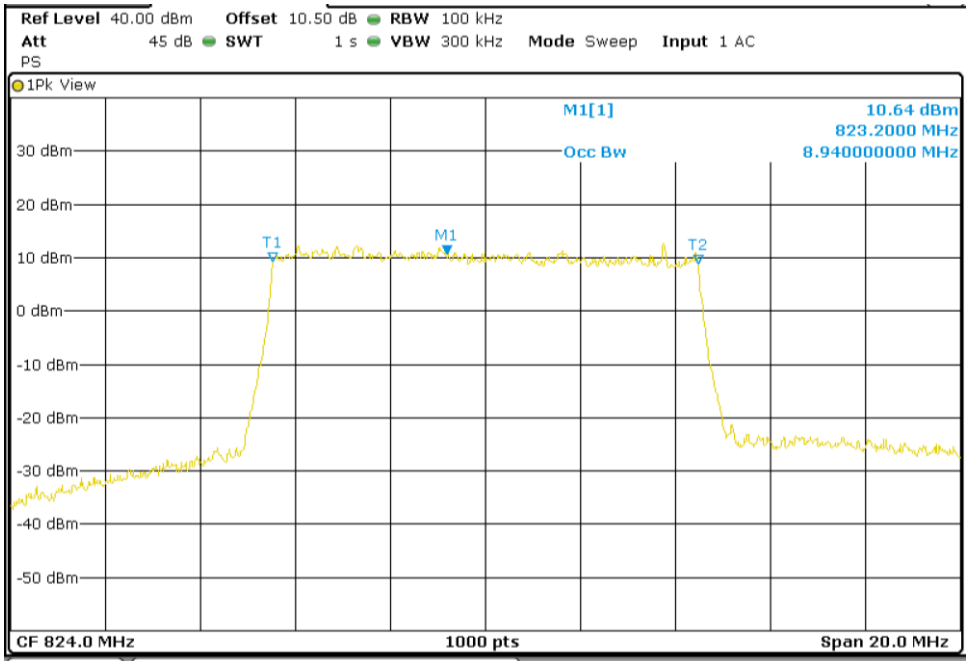
LTE QPSK MODULATION. BW = 10 MHz

99% Occupied Bandwidth



LTE 16QAM MODULATION. BW = 10 MHz

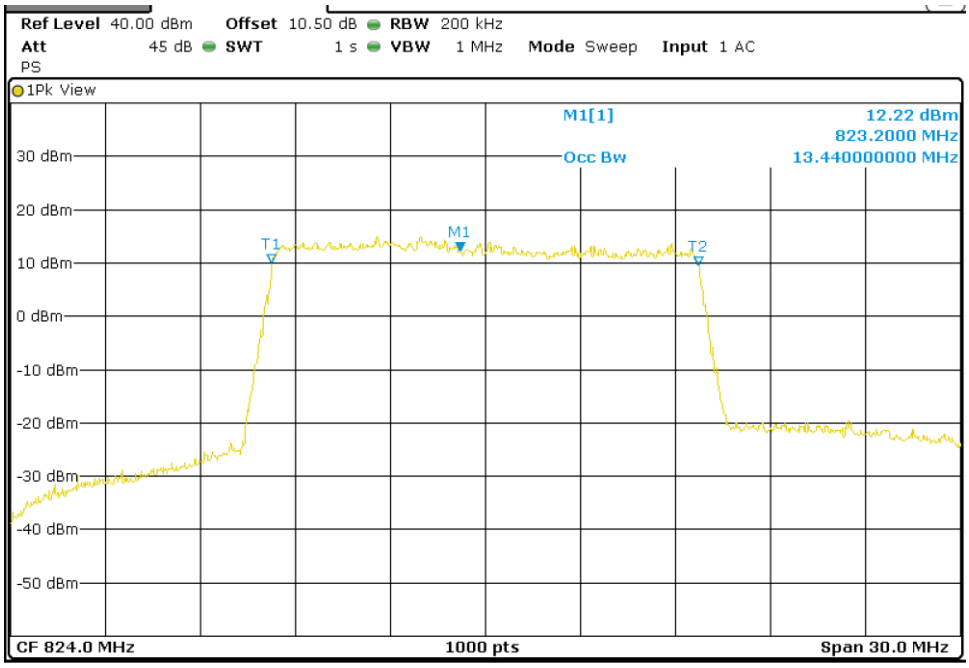
99% Occupied Bandwidth



TEST RESULTS (Cont):	

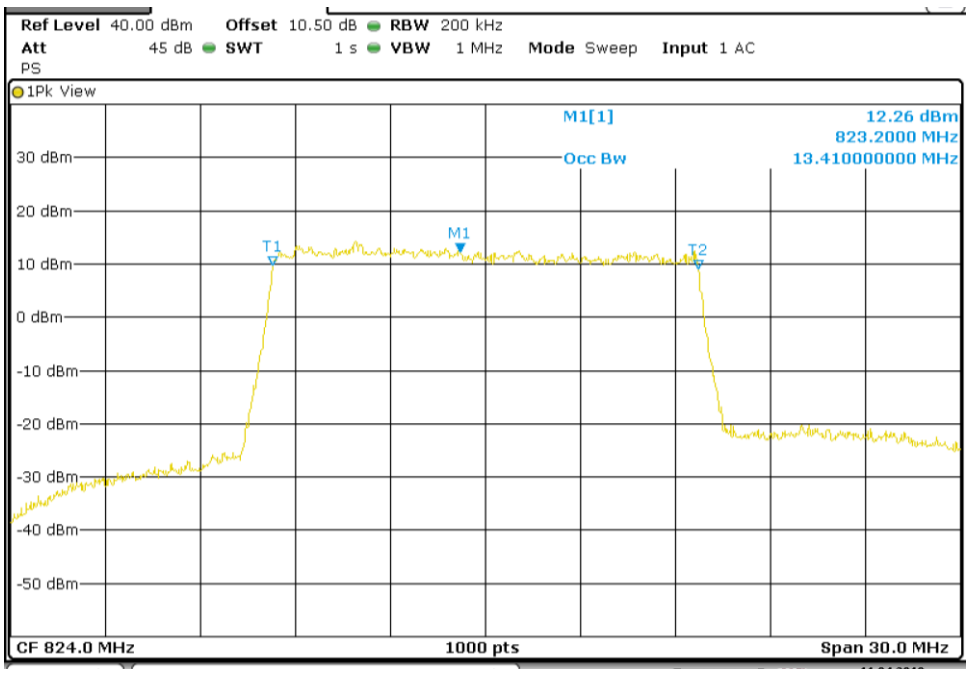
LTE QPSK MODULATION. BW = 15 MHz

99% Occupied Bandwidth



LTE 16QAM MODULATION. BW = 15 MHz

99% Occupied Bandwidth



TEST A.4: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

LIMITS:	Product standard:	FCC Part 90
	Test standard:	FCC §2.1051 and § 90.691.

LIMITS

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. P in watts.

At Po transmitting power of 2 watts (33 dBm), the specified minimum attenuation becomes 43+10log (Po). and the level in dBm relative to Po becomes:

Po (dBm) – [43 + 10 log (Po in watts)] = -13 dBm

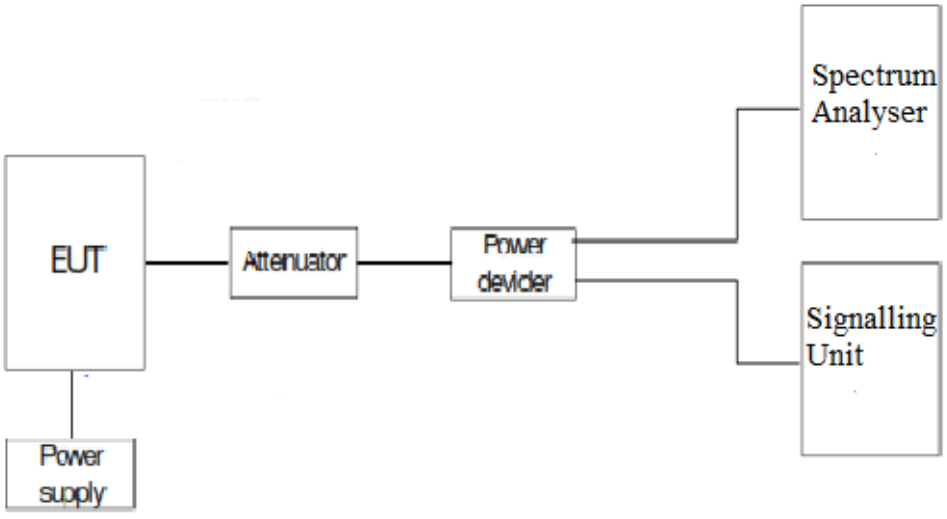
TEST SETUP

The EUT RF output connector was connected to a spectrum analyzer and to the Universal Radio Communication Tester R&S CMW500 (selecting maximum transmission power of the EUT and different modes of modulation) using a 50-ohm attenuator and a power splitter.

The spectrum was investigated from 9 kHz to 20 GHz for LTE Band 26.

The reading of the spectrum analyzer is corrected with the attenuation loss of connection between output terminal of EUT and input of the spectrum analyzer.

For LTE mode the configuration of Resource Blocks and modulation which is the worst case for conducted power was used.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

Frequency range 9 kHz – 20 GHz

LTE QPSK MODULATION. BW = 1.4 MHz

Lowest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Middle Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Highest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

LTE QPSK MODULATION. BW = 3 MHz

Lowest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Middle Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Highest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

LTE QPSK MODULATION. BW = 5 MHz

Lowest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Middle Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Highest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

LTE QPSK MODULATION. BW = 10 MHz

Lowest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Middle Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Highest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

LTE QPSK MODULATION. BW = 15 MHz

Lowest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Middle Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.

Highest Channel
The spurious signals were detected more than 10 dB below the limit in the frequency range.