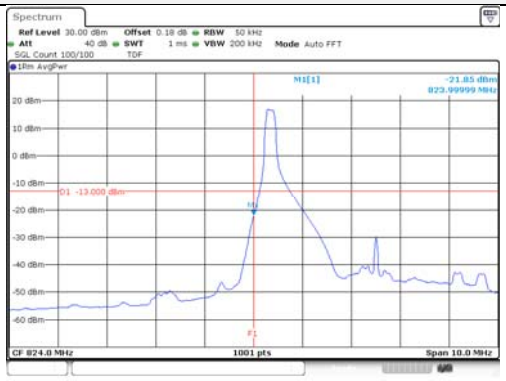
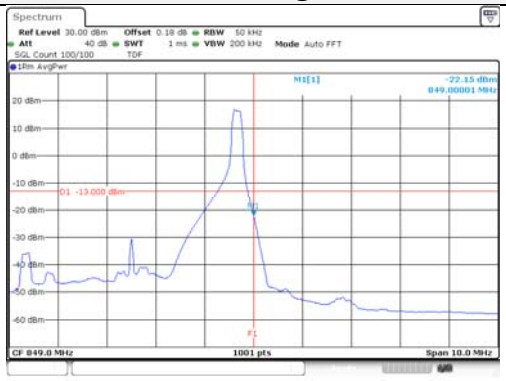
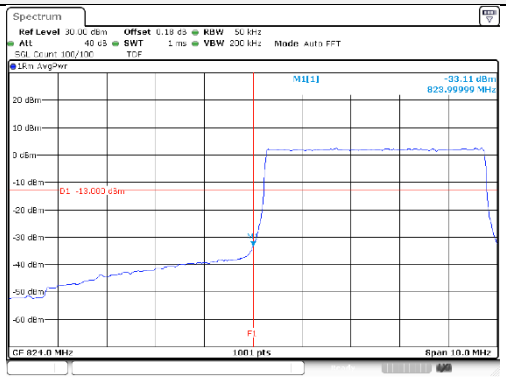
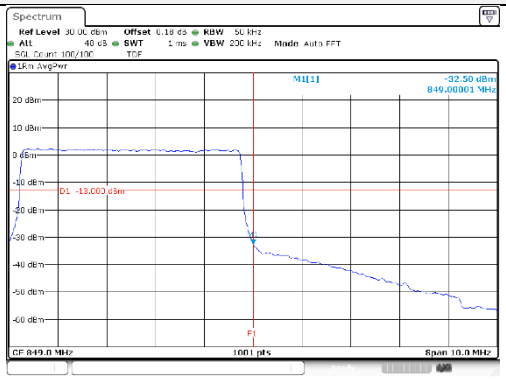
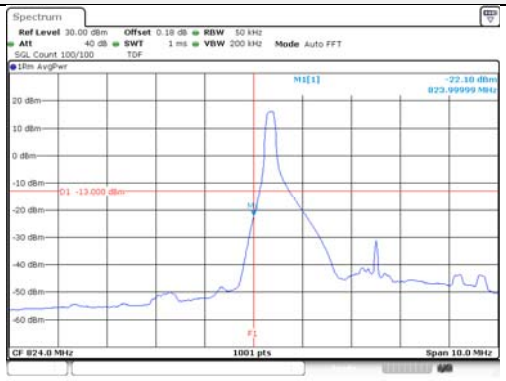
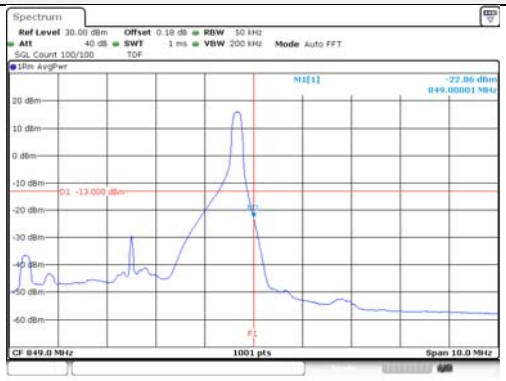
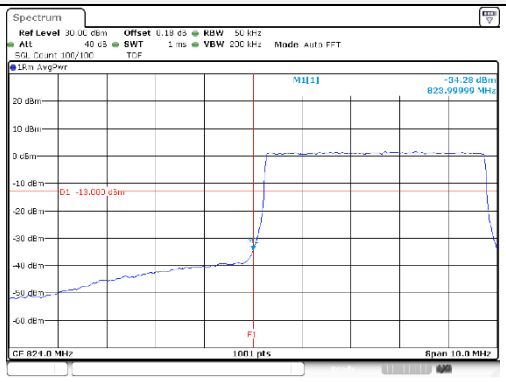
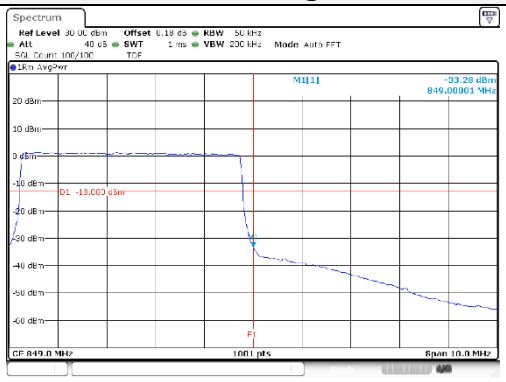
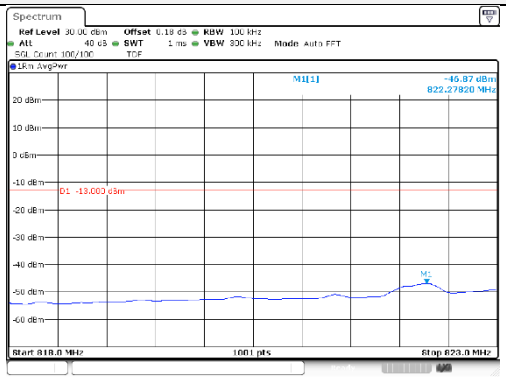
5M BW QPSK Low ch. 1RB	5M BW QPSK High ch. 1RB
	
5M BW QPSK Low ch. FRB	**5M BW QPSK High ch. FRB**
	
5M BW 16QAM Low ch. 1RB	**5M BW 16QAM High ch. 1RB**
	
5M BW 16QAM Low ch. FRB	**5M BW 16QAM High ch. FRB**
	

5M BW QPSK Lower extended 1RB



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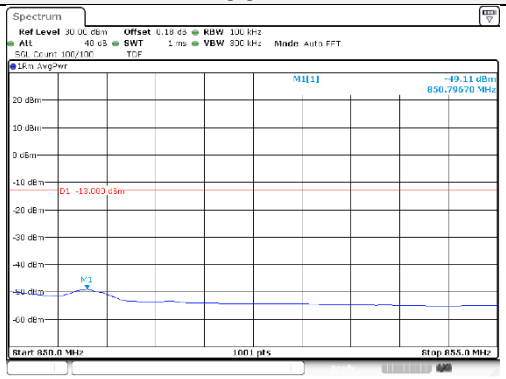
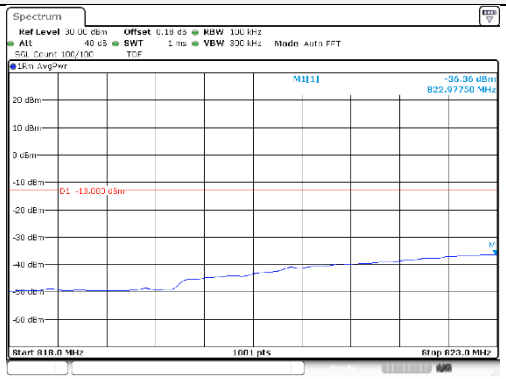
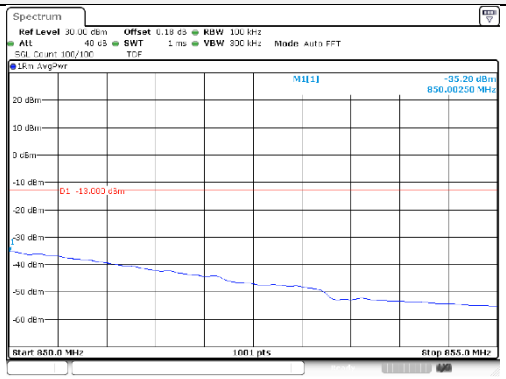


5M BW QPSK Lower extended FRB



5M BW QPSK Upper extended FRB



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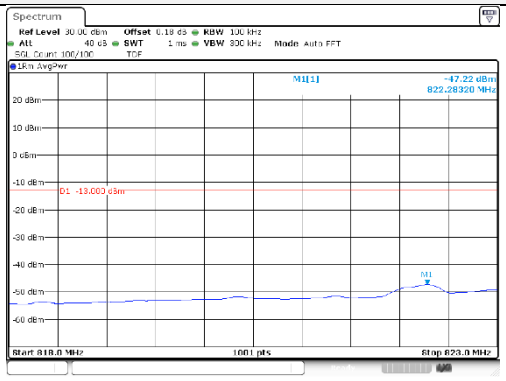
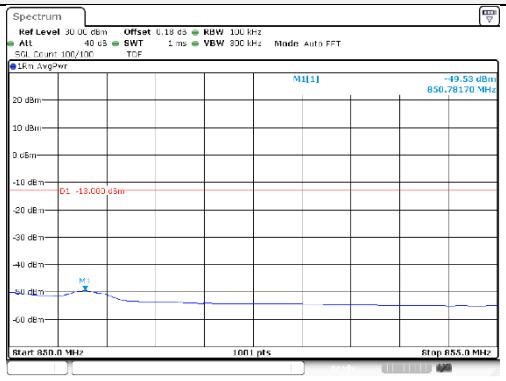


5M BW 16QAM Upper extended 1RB



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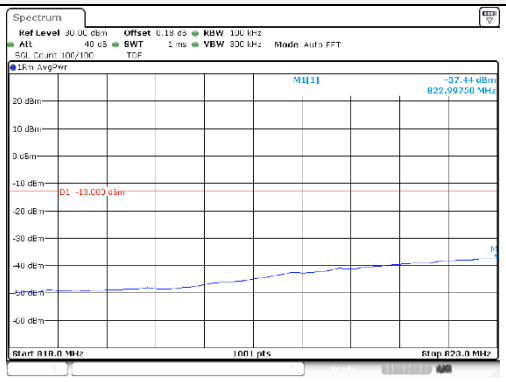
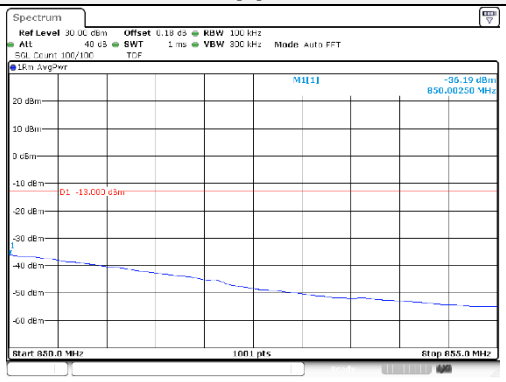
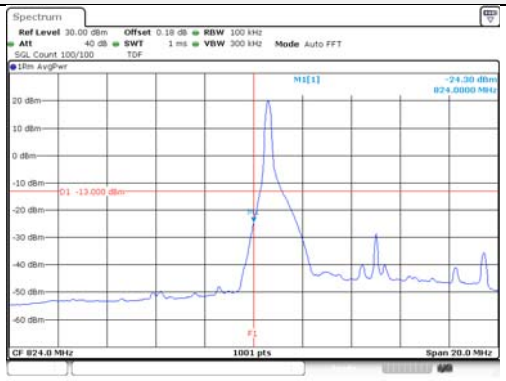
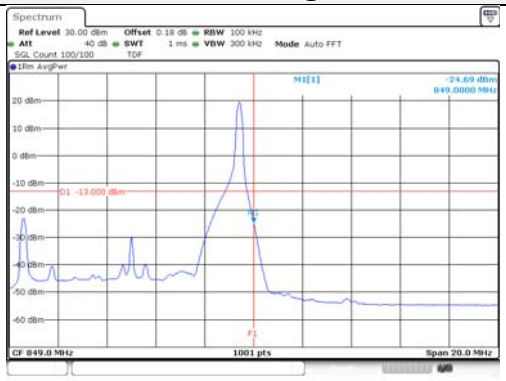
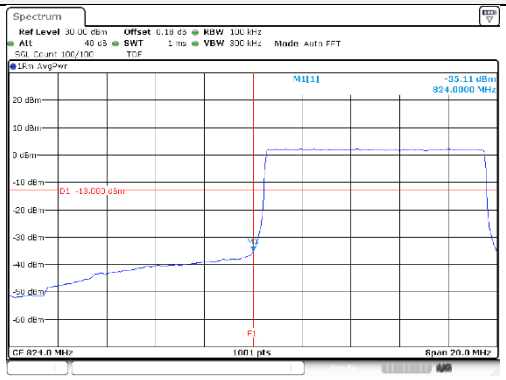
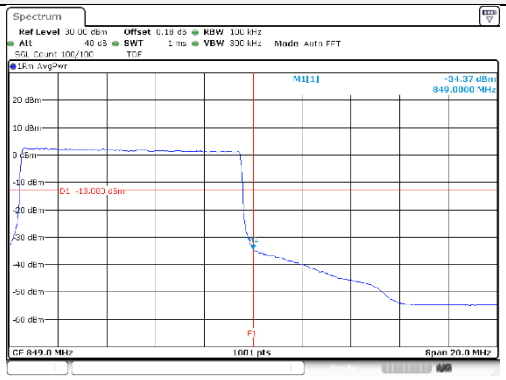
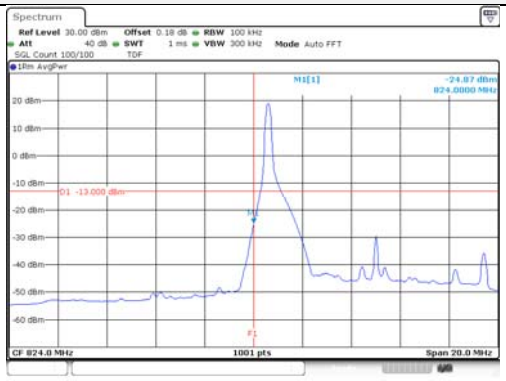
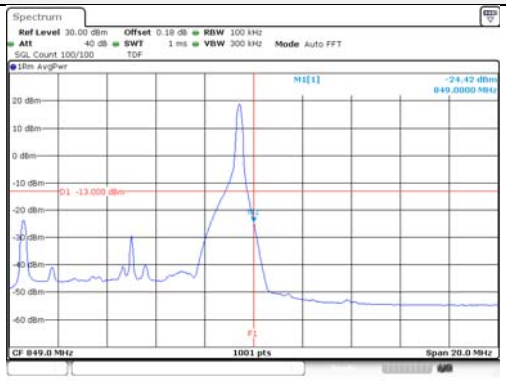
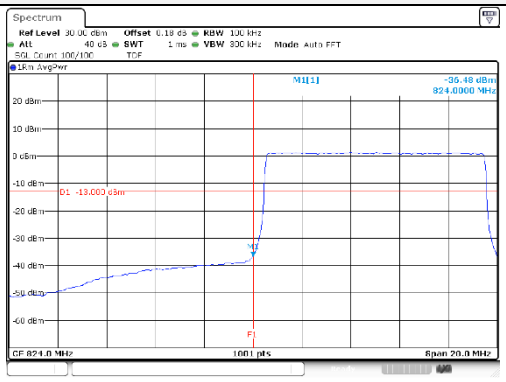
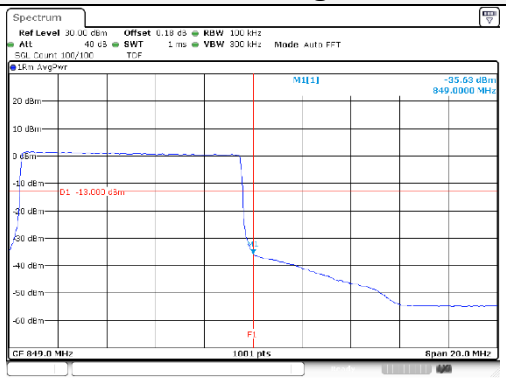
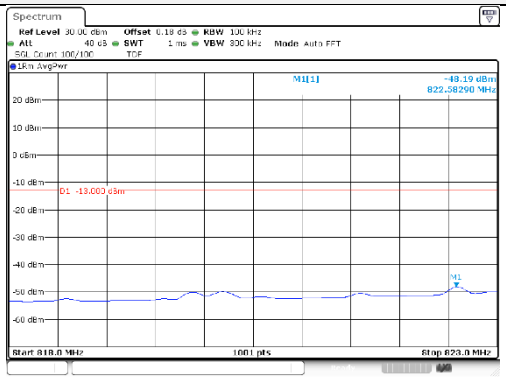


5M BW 16QAM Upper extended FRB



10M BW QPSK Low ch. 1RB	10M BW QPSK High ch. 1RB
	
10M BW QPSK Low ch. FRB	**10M BW QPSK High ch. FRB**
	
10M BW 16QAM Low ch. 1RB	**10M BW 16QAM High ch. 1RB**
	
10M BW 16QAM Low ch. FRB	**10M BW 16QAM High ch. FRB**
	

10M BW QPSK Lower extended 1RB



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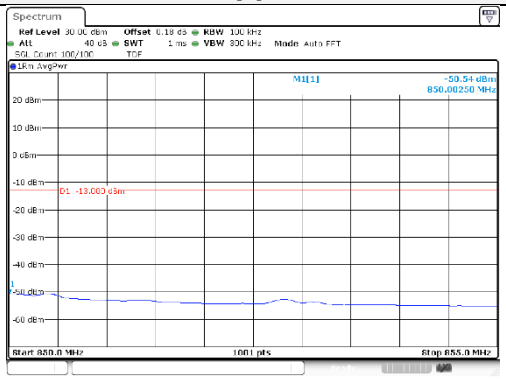
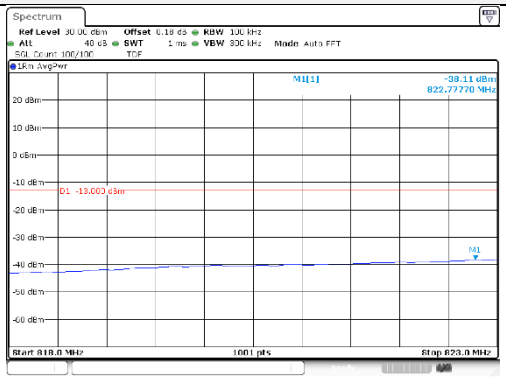
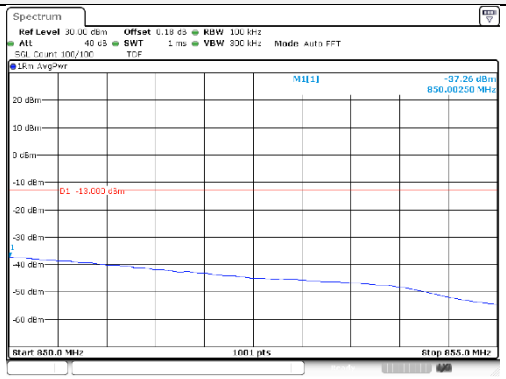


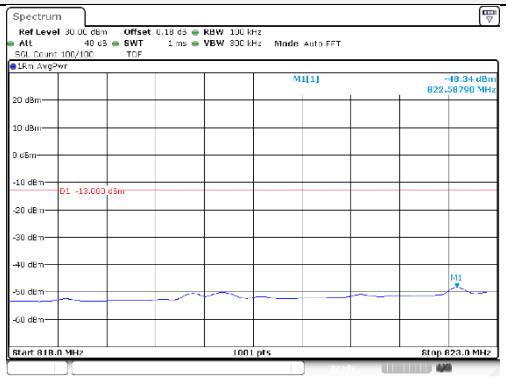
10M BW QPSK Lower extended FRB



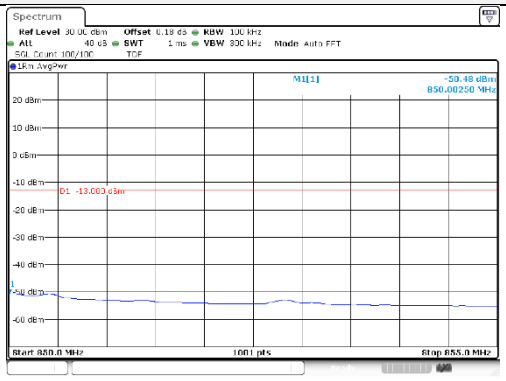
10M BW QPSK Upper extended FRB



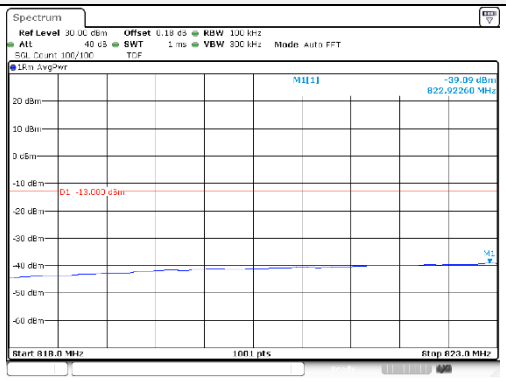
10M BW 16QAM Lower extended 1RB



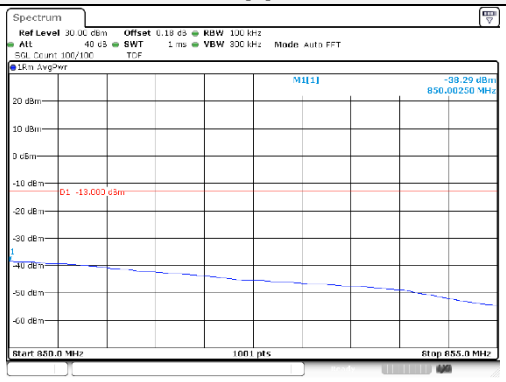
10M BW 16QAM Upper extended 1RB

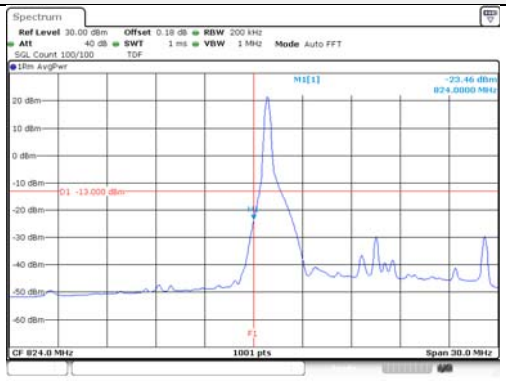
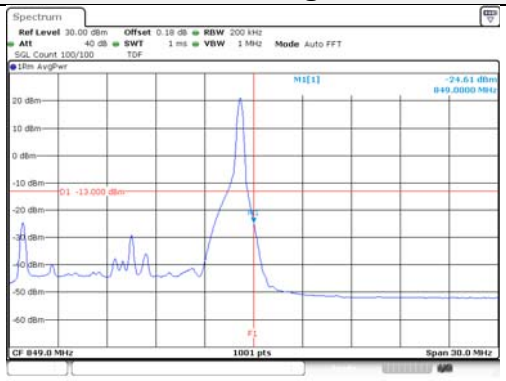
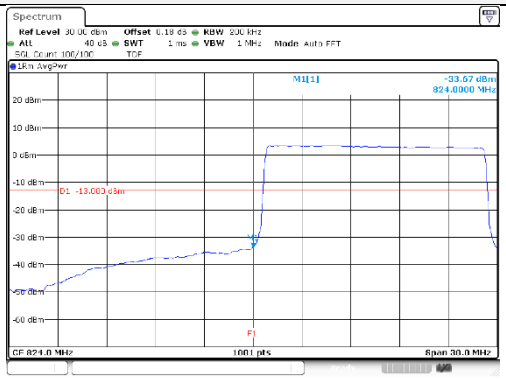
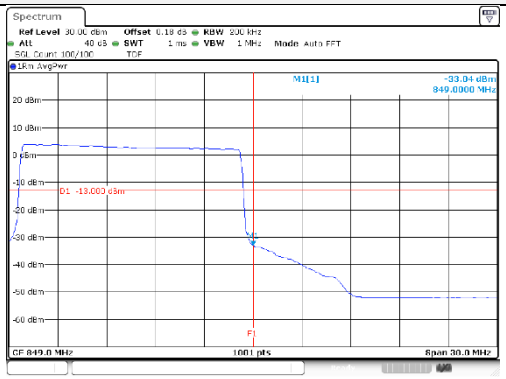
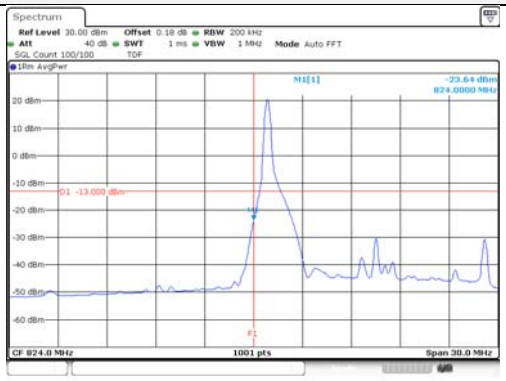
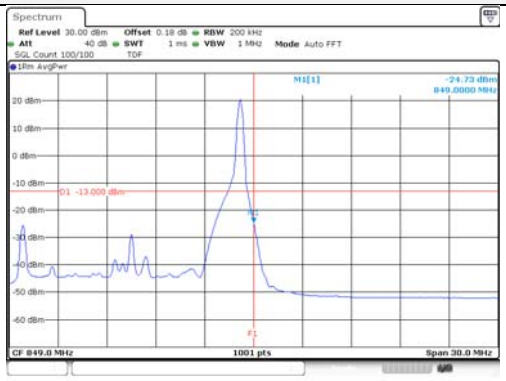
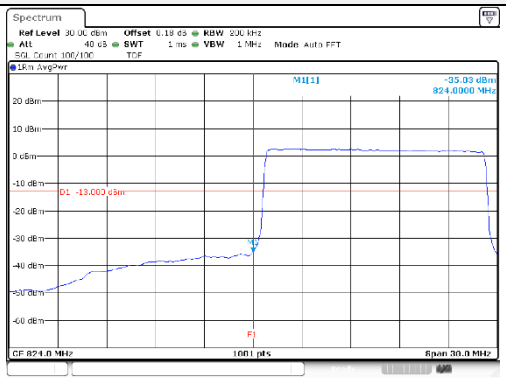
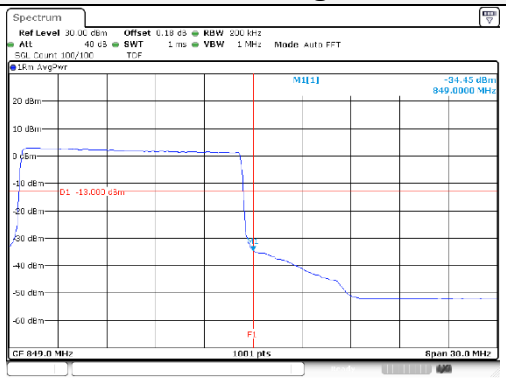


10M BW 16QAM Lower extended FRB

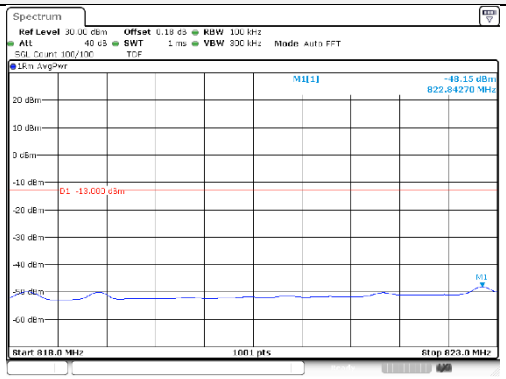


10M BW 16QAM Upper extended FRB

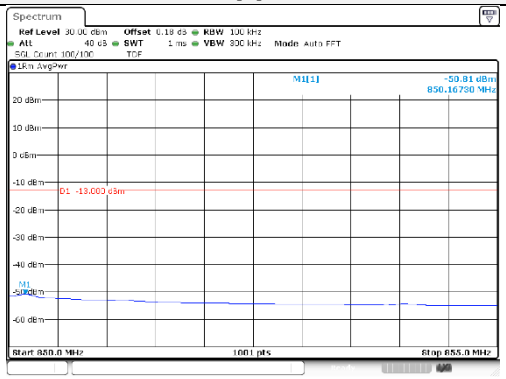


15M BW QPSK Low ch. 1RB	15M BW QPSK High ch. 1RB
	
15M BW QPSK Low ch. FRB	**15M BW QPSK High ch. FRB**
	
15M BW 16QAM Low ch. 1RB	**15M BW 16QAM High ch. 1RB**
	
15M BW 16QAM Low ch. FRB	**15M BW 16QAM High ch. FRB**
	

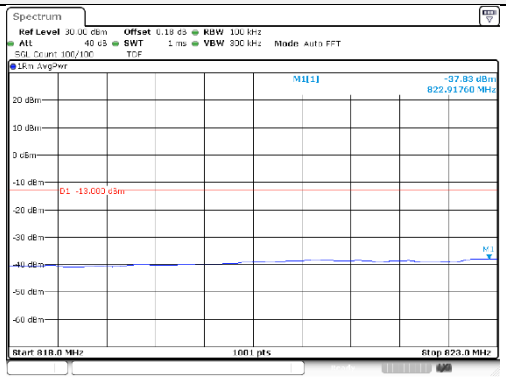
15M BW QPSK Lower extended 1RB



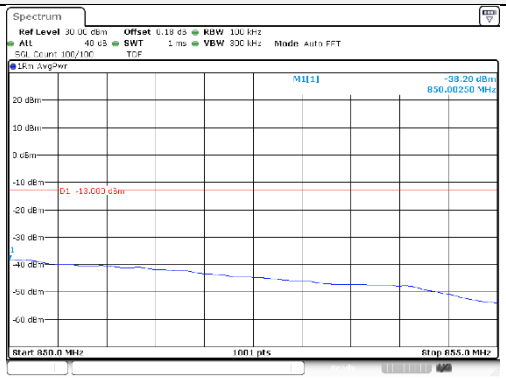
15M BW QPSK Upper extended 1RB



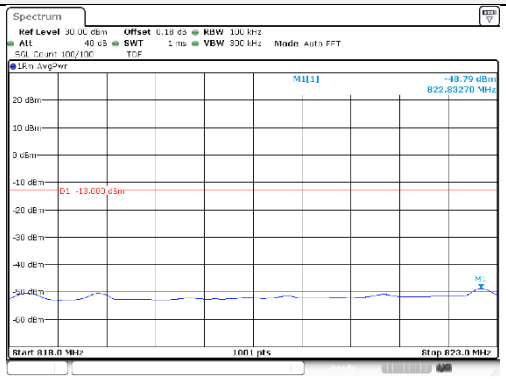
15M BW QPSK Lower extended FRB



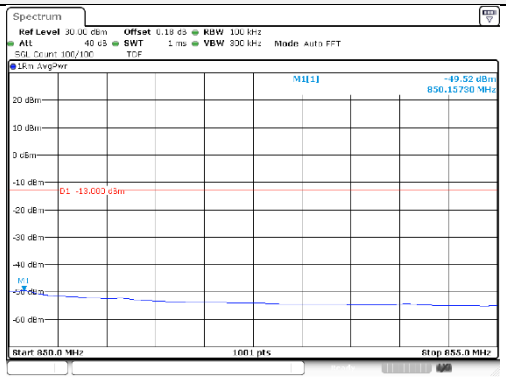
15M BW QPSK Upper extended FRB



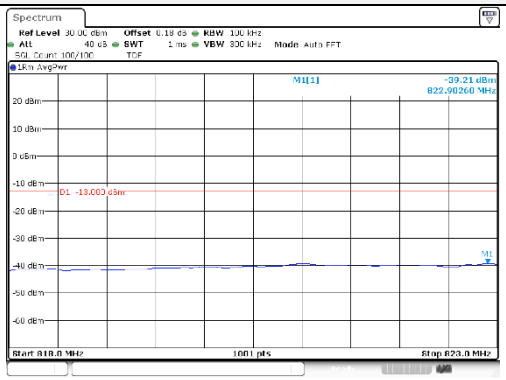
15M BW 16QAM Lower extended 1RB



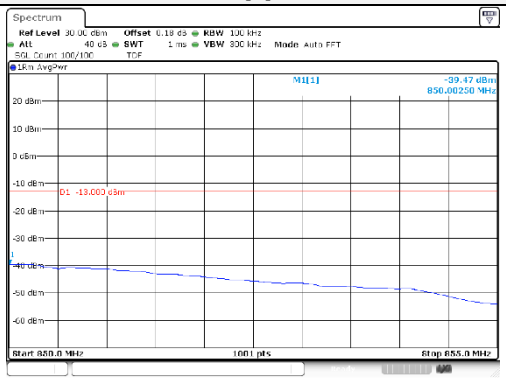
15M BW 16QAM Upper extended 1RB



15M BW 16QAM Lower extended FRB

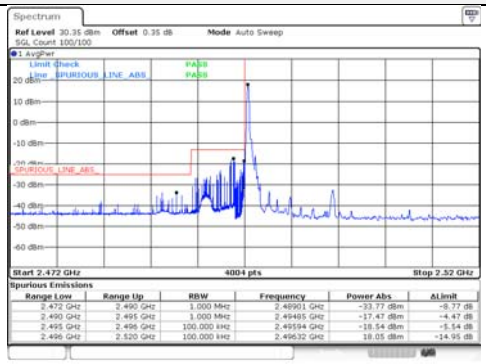


15M BW 16QAM Upper extended FRB

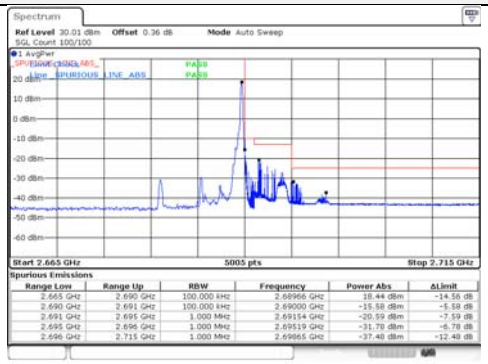


Test mode: LTE Band 41

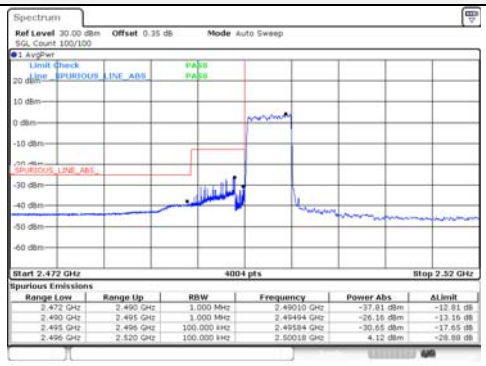
5M BW QPSK Low ch. 1RB



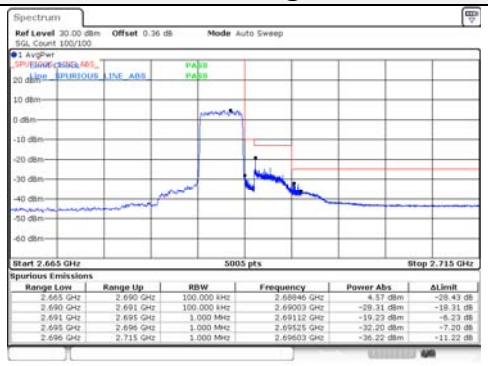
5M BW QPSK High ch. 1RB



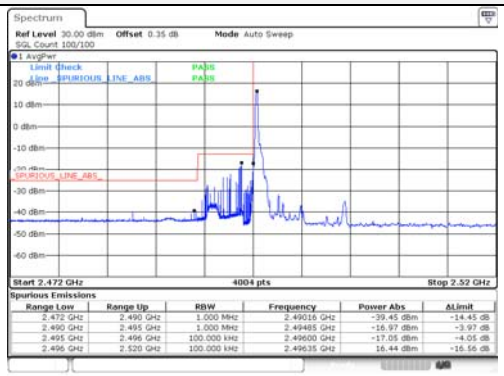
5M BW QPSK Low ch. FRB



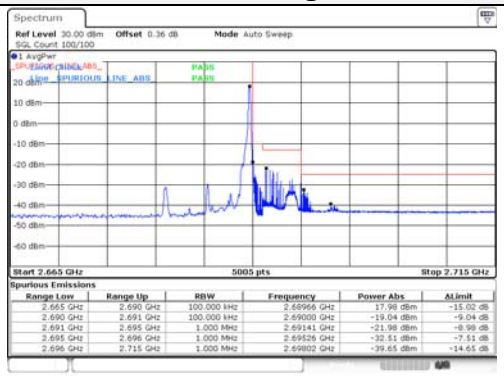
5M BW QPSK High ch. FRB



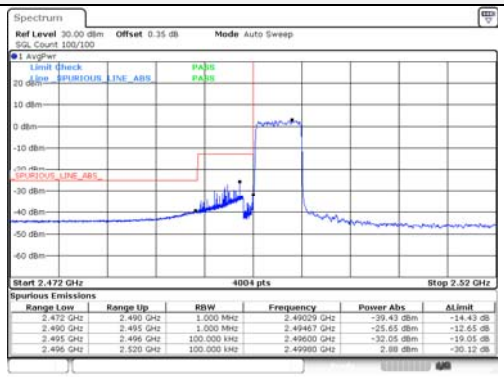
5M BW 16QAM Low ch. 1RB



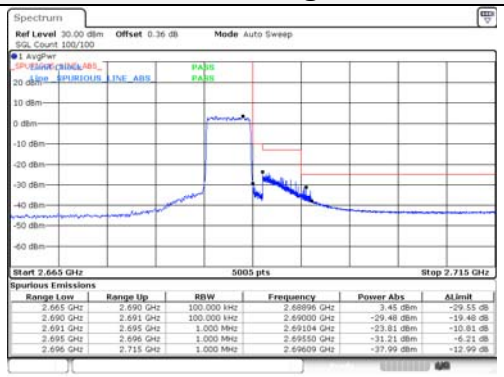
5M BW 16QAM High ch. 1RB



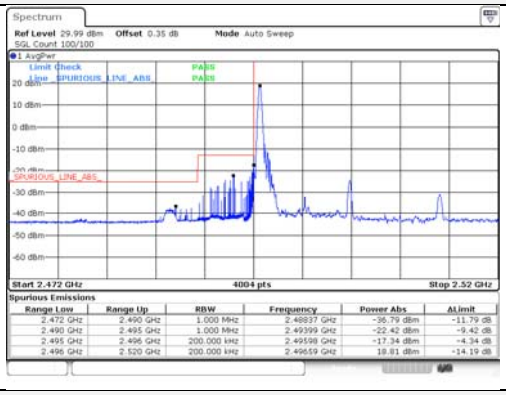
5M BW 16QAM Low ch. FRB



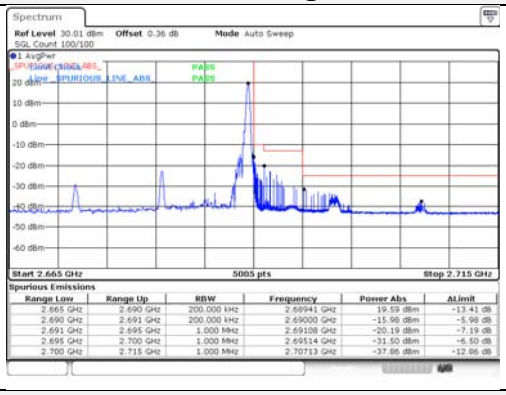
5M BW 16QAM High ch. FRB



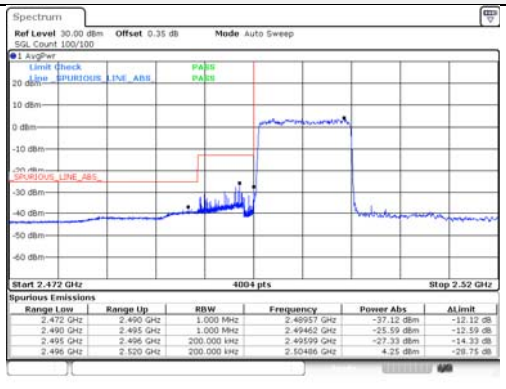
10M BW QPSK Low ch. 1RB



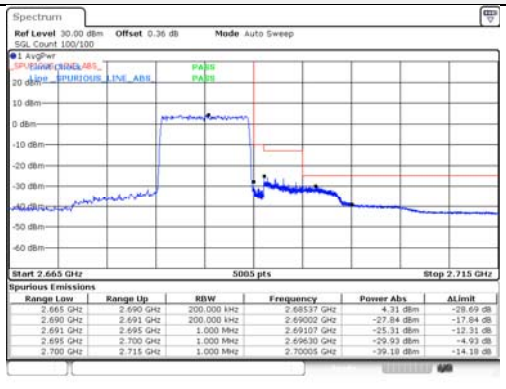
10M BW QPSK High ch. 1RB



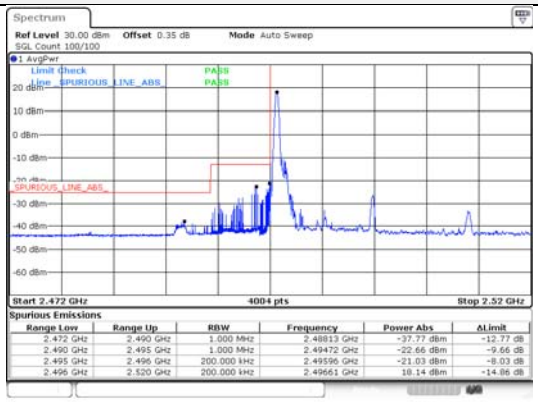
10M BW QPSK Low ch. FRB



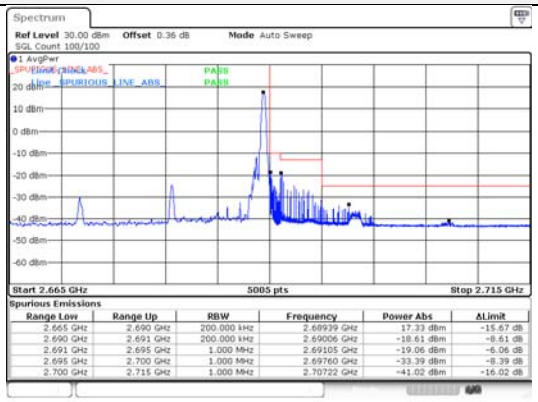
10M BW QPSK High ch. FRB



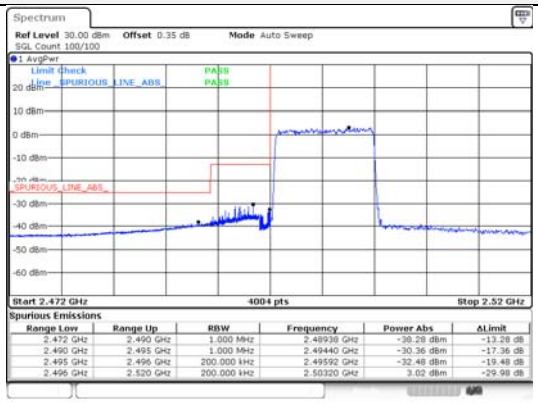
10M BW 16QAM Low ch. 1RB



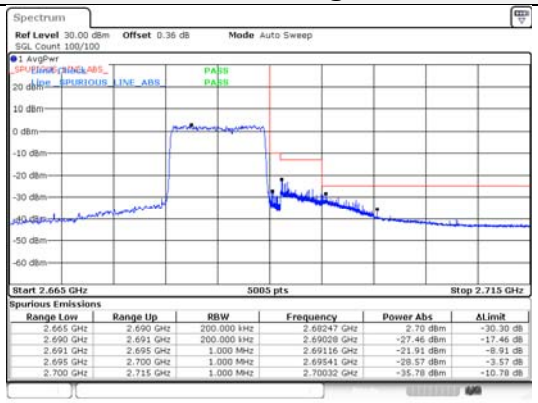
10M BW 16QAM High ch. 1RB

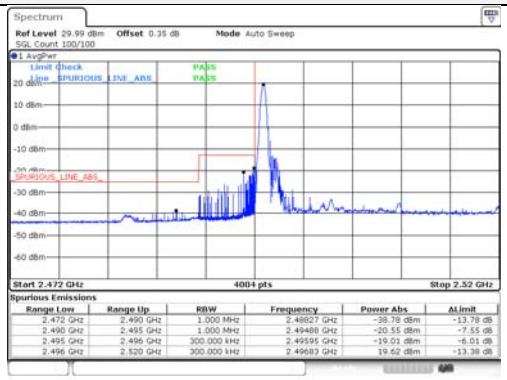
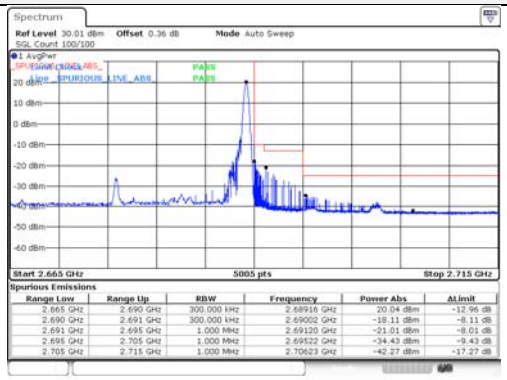
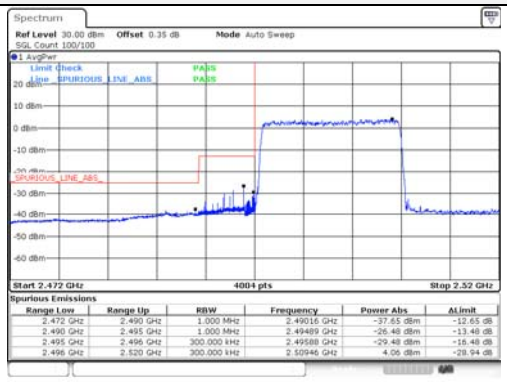
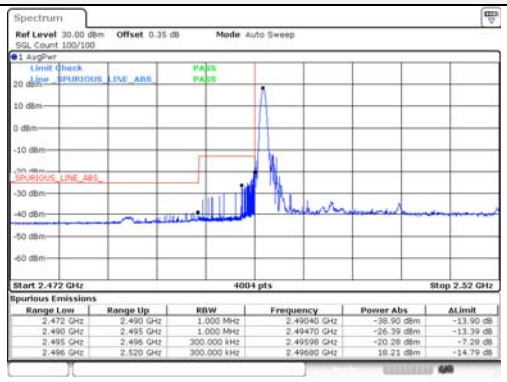
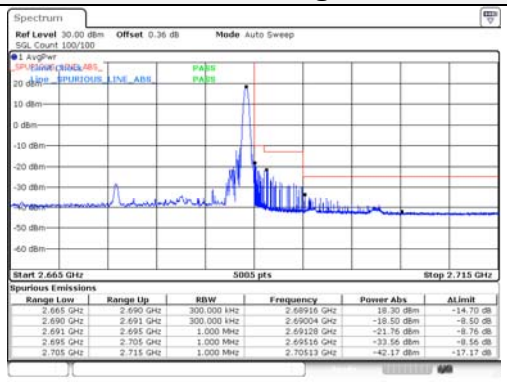
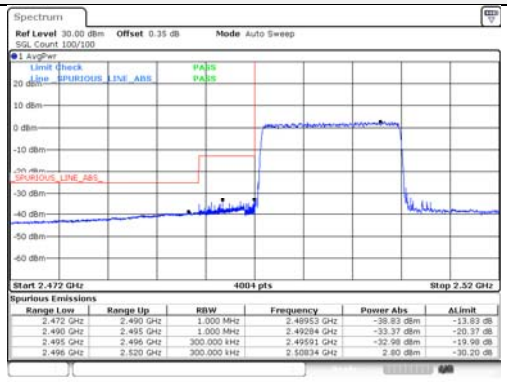
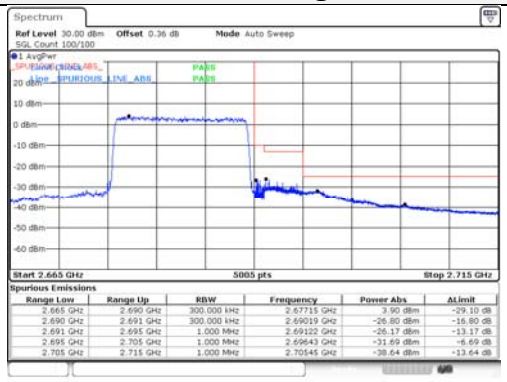


10M BW 16QAM Low ch. FRB

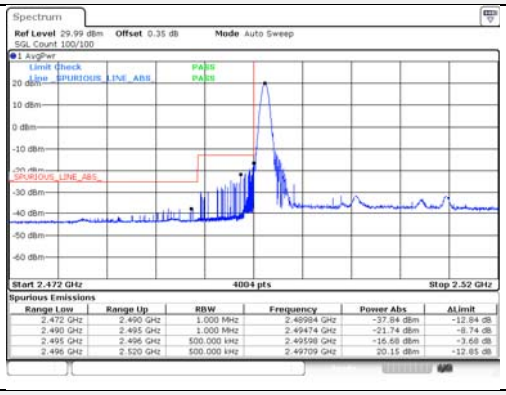


10M BW 16QAM High ch. FRB



15M BW QPSK Low ch. 1RB	15M BW QPSK High ch. 1RB
	
15M BW / QPSK / Low ch. / FRB	**15M BW / QPSK / High ch. / FRB**
	
15M BW 16QAM Low ch. 1RB	**15M BW 16QAM High ch. 1RB**
	
15M BW 16QAM Low ch. FRB	**15M BW 16QAM High ch. FRB**
	

20M BW QPSK Low ch. 1RB



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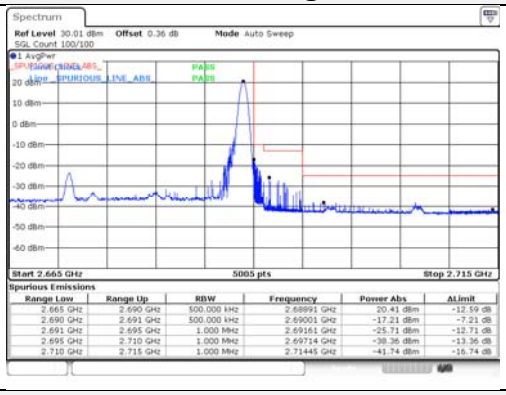
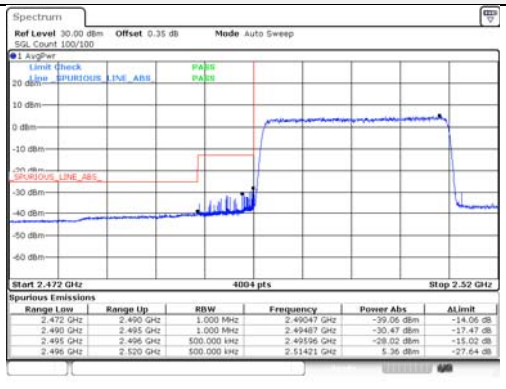
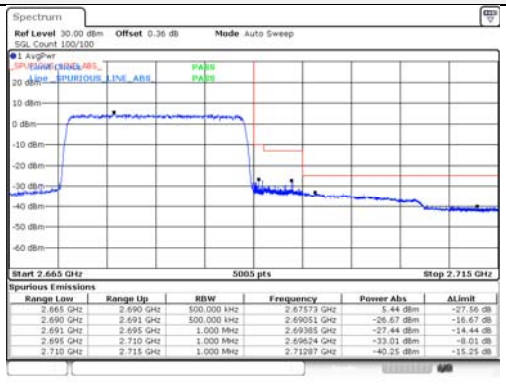


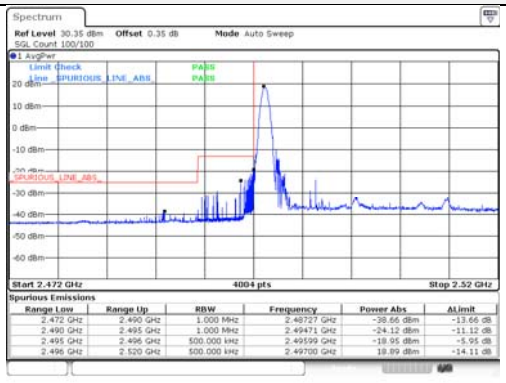
20M BW QPSK Low ch. FRB



20M BW QPSK High ch. FRB



20M BW 16QAM Low ch. 1RB



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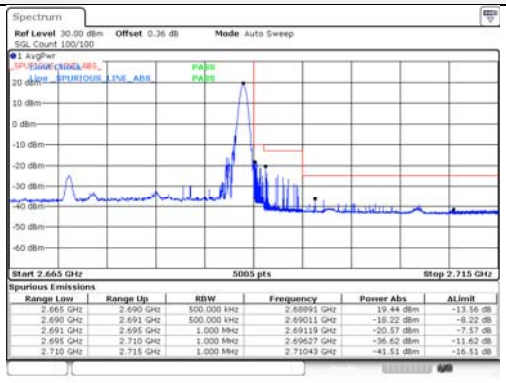
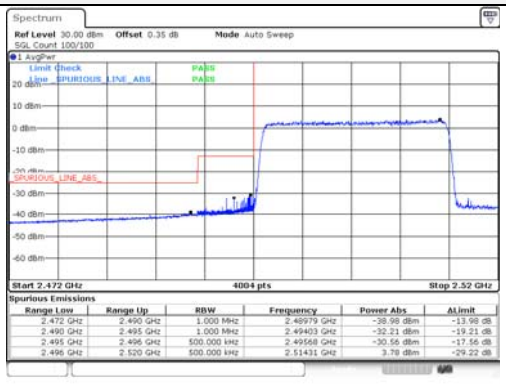
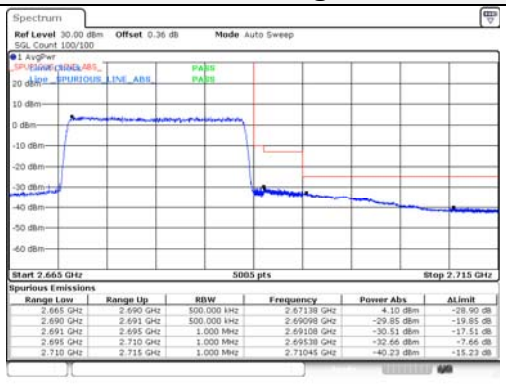


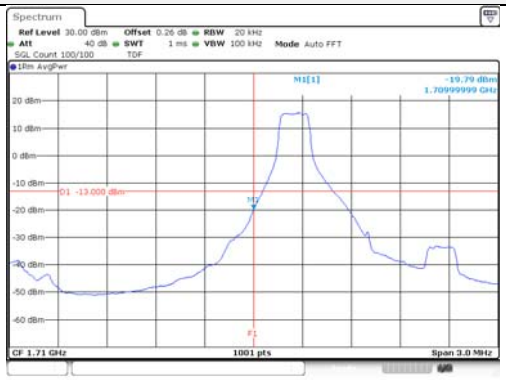
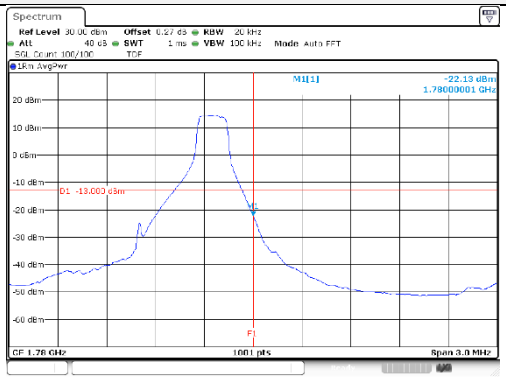
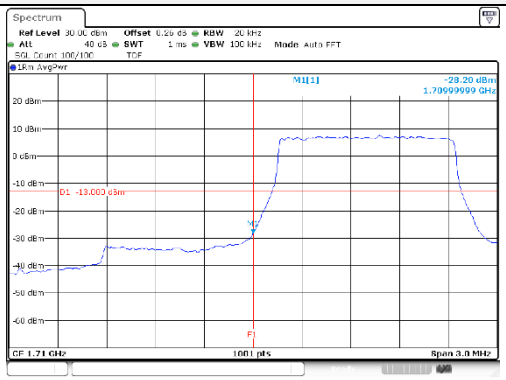
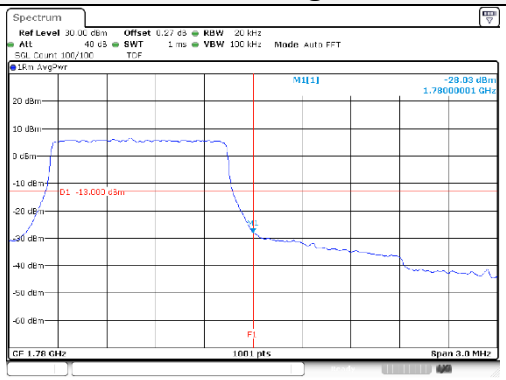
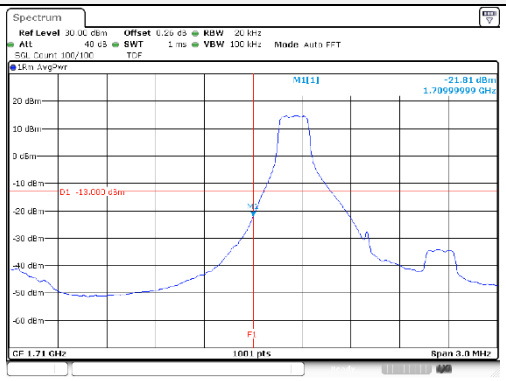
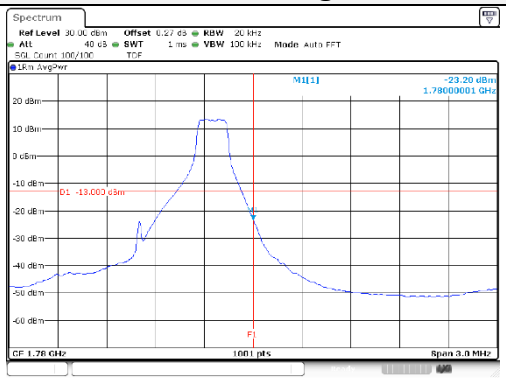
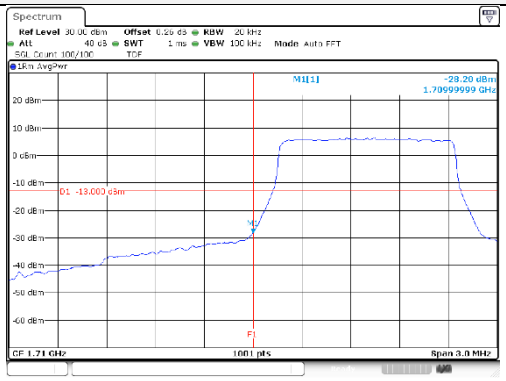
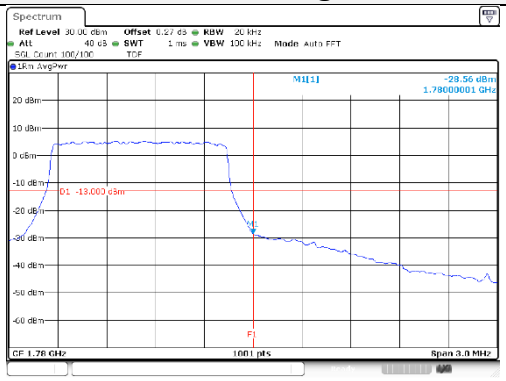
20M BW 16QAM Low ch. FRB



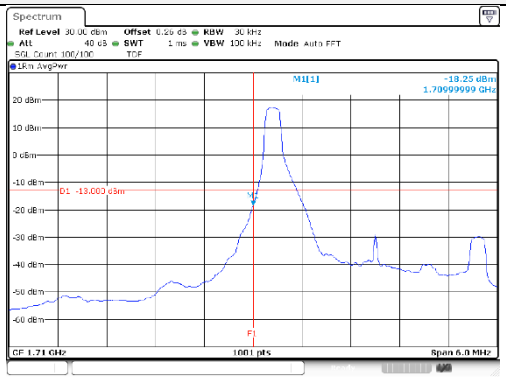
20M BW 16QAM High ch. FRB



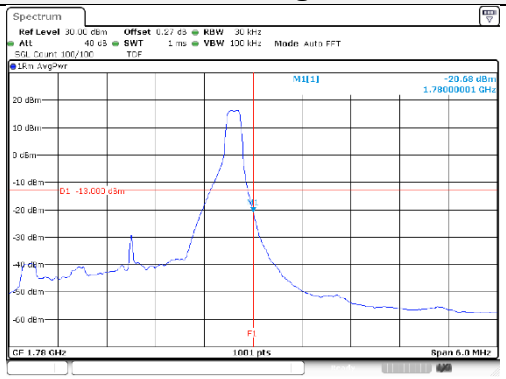
Test mode: LTE Band 66/4

1.4M BW QPSK Low ch. 1RB	1.4M BW QPSK High ch. 1RB
	
1.4M BW QPSK Low ch. FRB	**1.4M BW QPSK High ch. FRB**
	
1.4M BW 16QAM Low ch. 1RB	**1.4M BW 16QAM High ch. 1RB**
	
1.4M BW 16QAM Low ch. FRB	**1.4M BW 16QAM High ch. FRB**
	

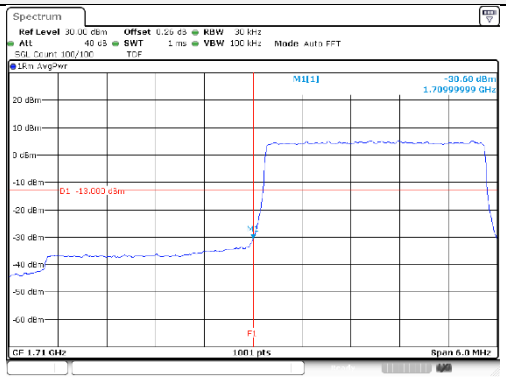
3M BW QPSK Low ch. 1RB



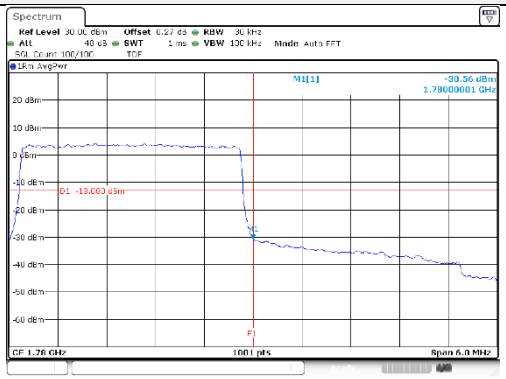
3M BW QPSK High ch. 1RB



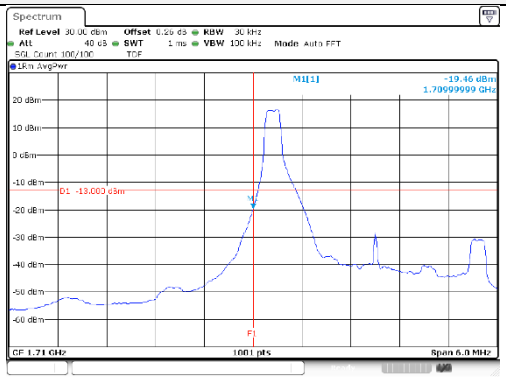
3M BW QPSK Low ch. FRB



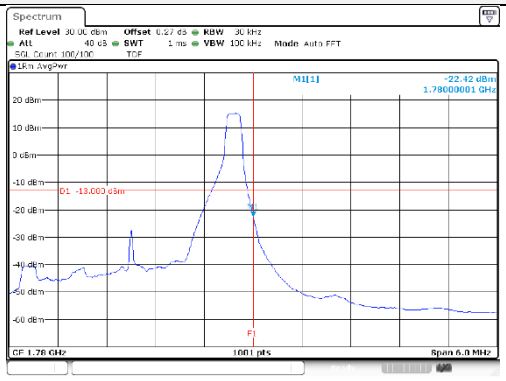
3M BW QPSK High ch. FRB



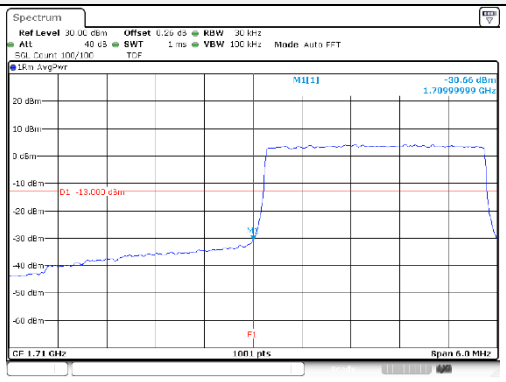
3M BW 16QAM Low ch. 1RB



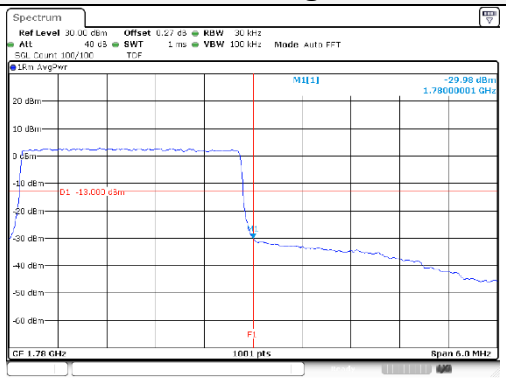
3M BW 16QAM High ch. 1RB

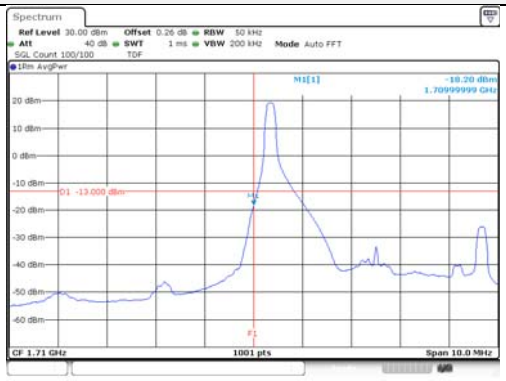
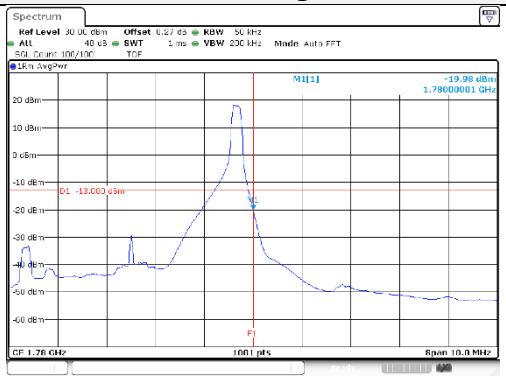
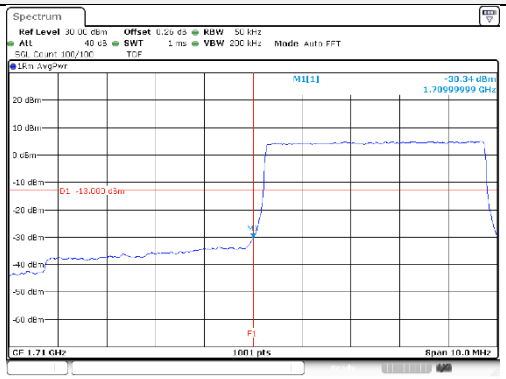
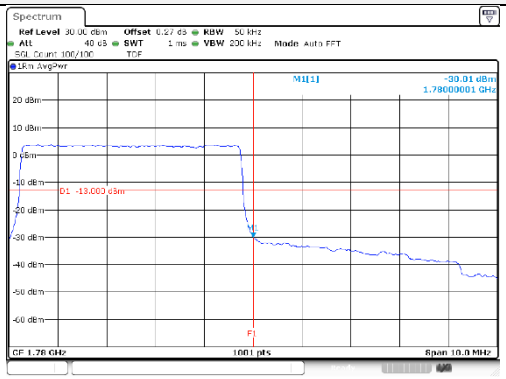
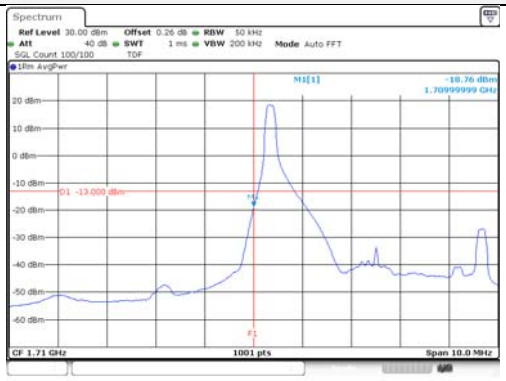
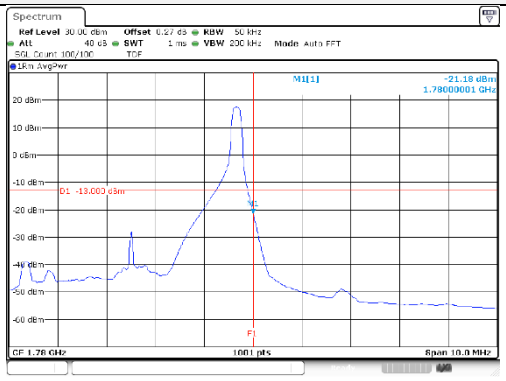
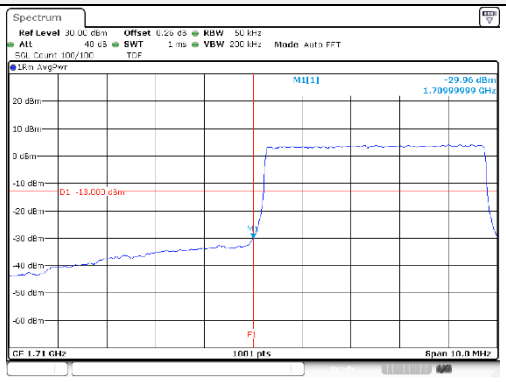
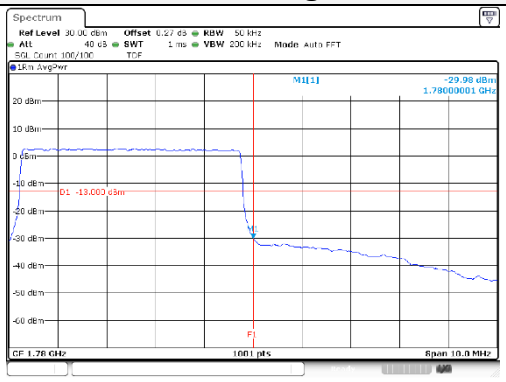


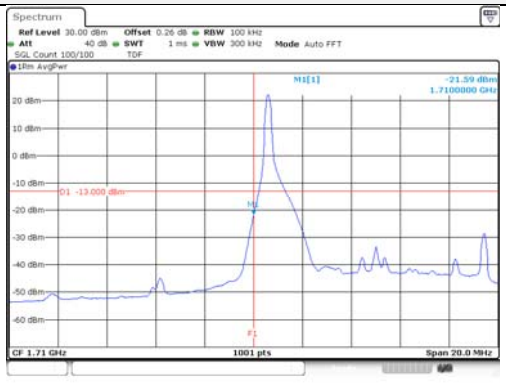
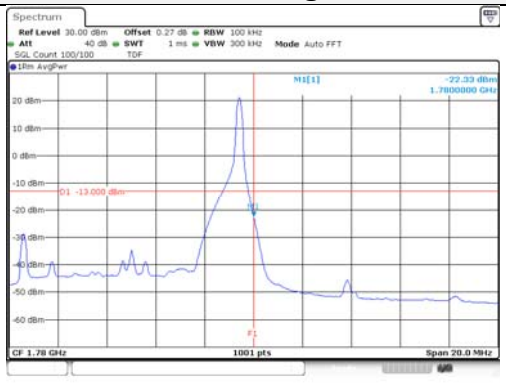
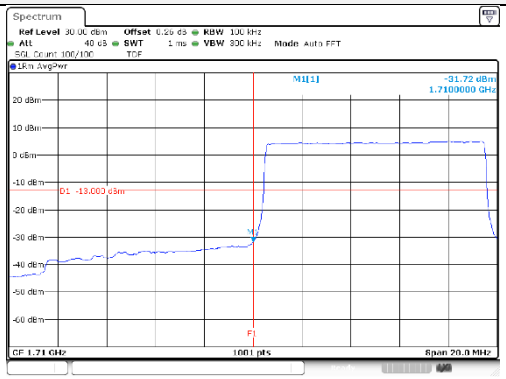
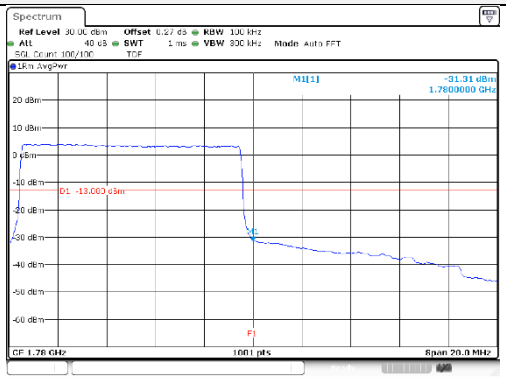
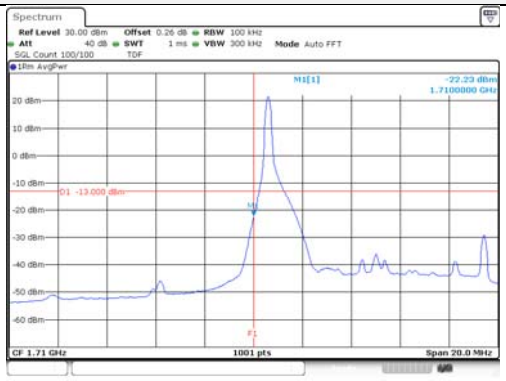
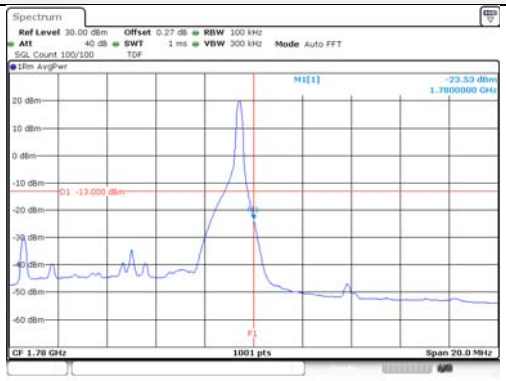
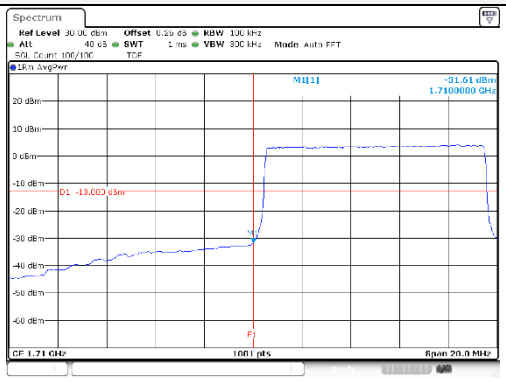
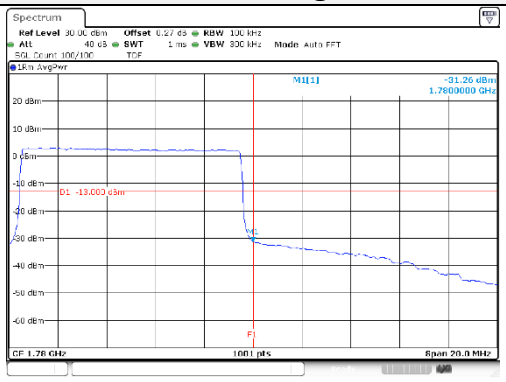
3M BW 16QAM Low ch. FRB

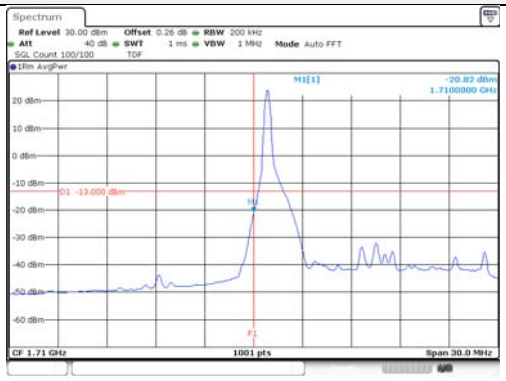
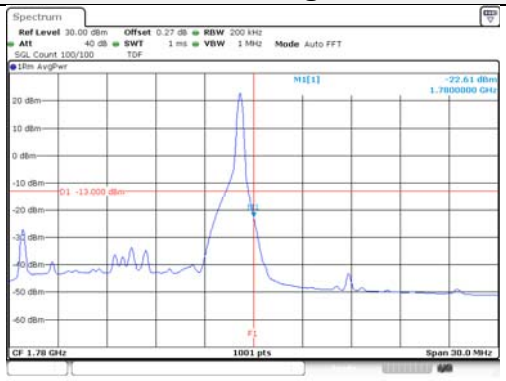
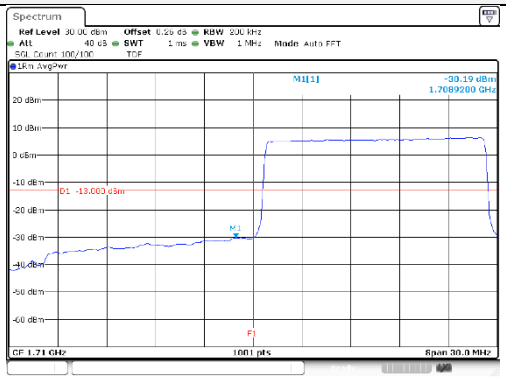
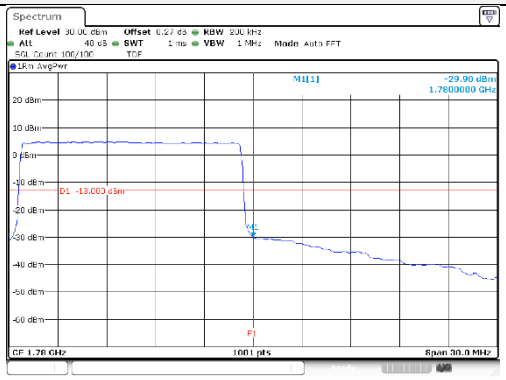


3M BW 16QAM High ch. FRB



5M BW QPSK Low ch. 1RB	5M BW QPSK High ch. 1RB
	
5M BW QPSK Low ch. FRB	**5M BW QPSK High ch. FRB**
	
5M BW 16QAM Low ch. 1RB	**5M BW 16QAM High ch. 1RB**
	
5M BW 16QAM Low ch. FRB	**5M BW 16QAM High ch. FRB**
	

10M BW QPSK Low ch. 1RB	10M BW QPSK High ch. 1RB
	
10M BW QPSK Low ch. FRB	**10M BW QPSK High ch. FRB**
	
10M BW 16QAM Low ch. 1RB	**10M BW 16QAM High ch. 1RB**
	
10M BW 16QAM Low ch. FRB	**10M BW 16QAM High ch. FRB**
	

15M BW QPSK Low ch. 1RB	15M BW QPSK High ch. 1RB
	
15M BW QPSK Low ch. FRB	**15M BW QPSK High ch. FRB**
	
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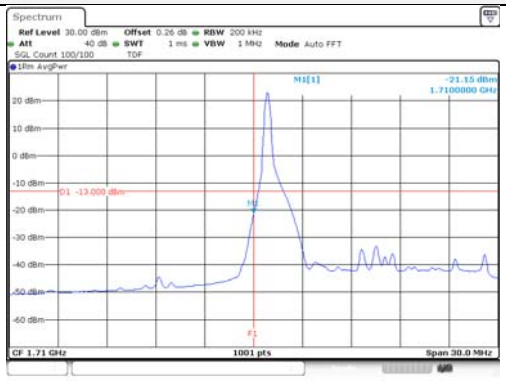	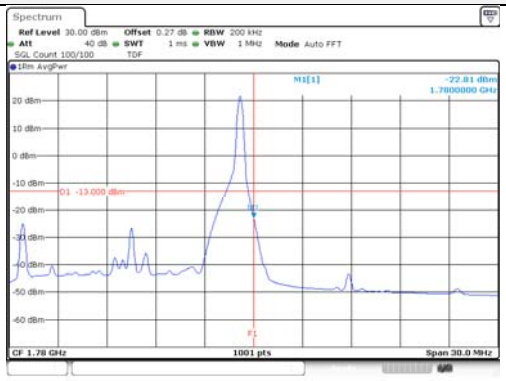
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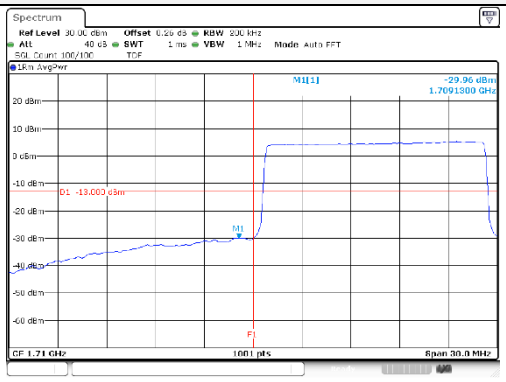	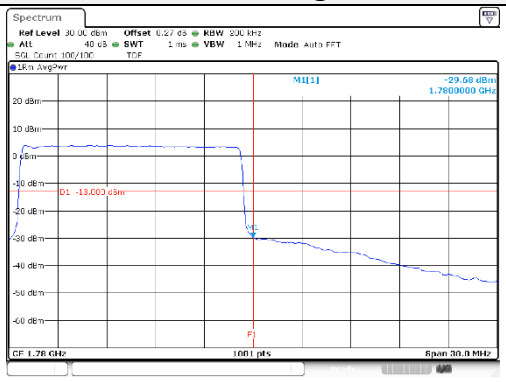

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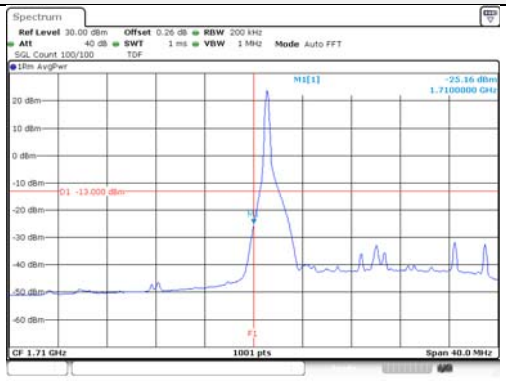	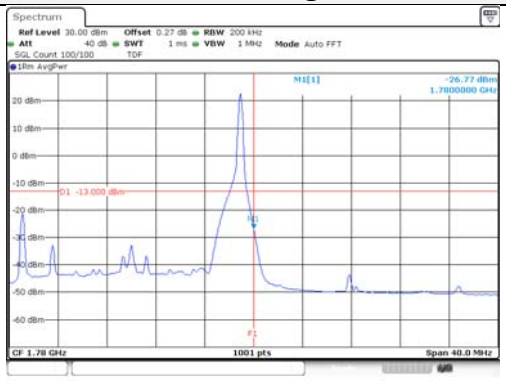
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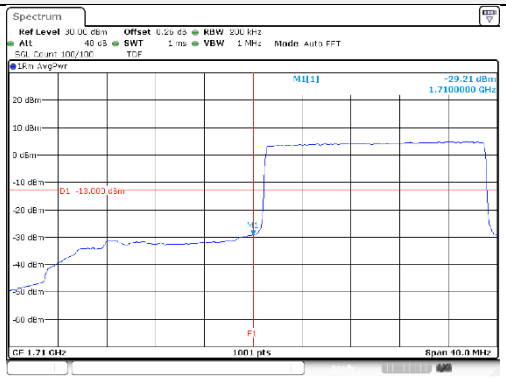	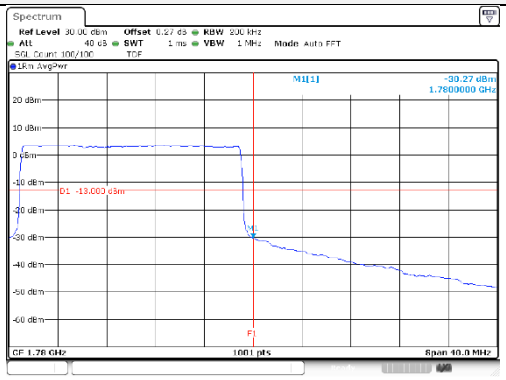
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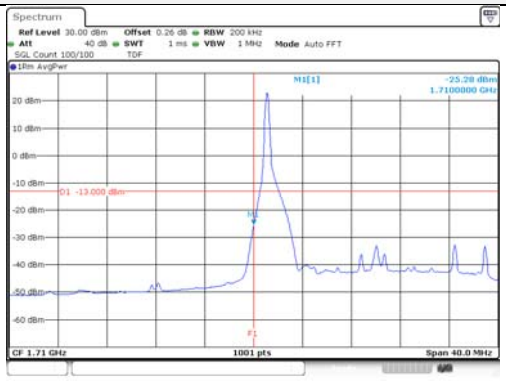
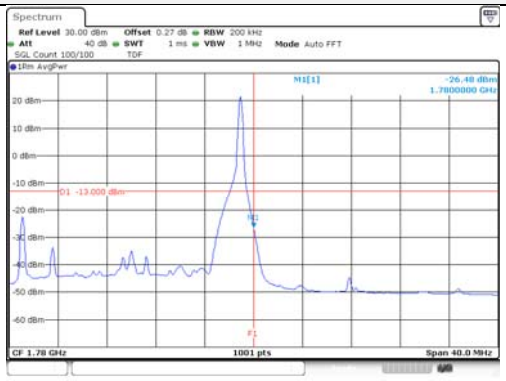
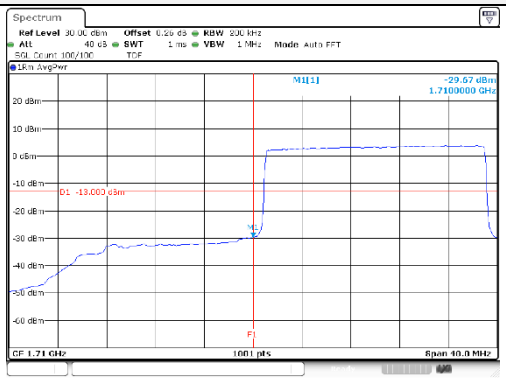
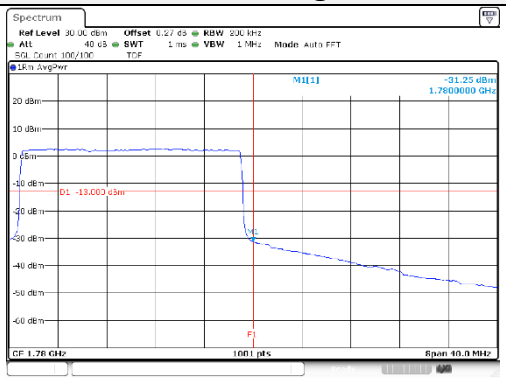
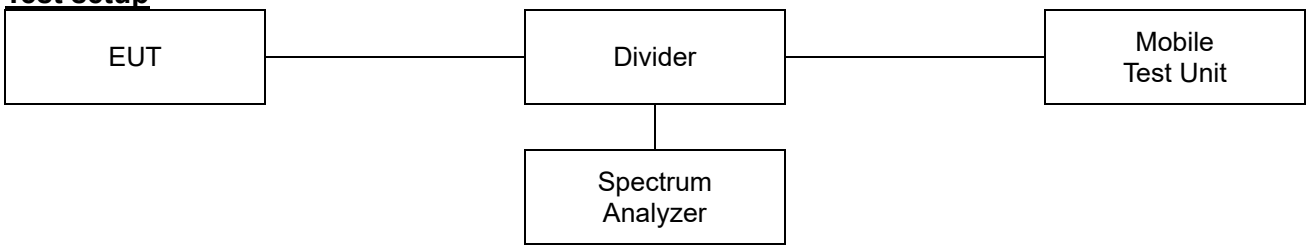
	
20M BW 16QAM Low ch. FRB	**20M BW 16QAM High ch. FRB**
	

7.5. Peak to Average Power Ratio (PAPR)

Test setup



Limit

According to §24.232(d), §27.50(d)(5), the peak-to-average ratio(PAR) of the transmission must not exceed 13 dB.

Test procedure

971168 D01 v03r01 - Section 5.7.2
ANSI 63.26-2015 – Section 5.2.3.4

Test settings

5.2.3.4 Measurement of peak power in a broadband noise-like signal using CCDF

1) Set resolution/measurement bandwidth ≥ OBW or specified reference bandwidth
2) Set the number of counts to a value that stabilizes the measured CCDF curve.
3) Set the measurement interval as follows:
   a) For continuous transmissions, set to the greater of [10 x (number of points in sweep) x (transmission symbol period)] or 1 ms.
   b) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement internal to a time that is less than or equal to the burst duration.
   c) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
4) Record the maximum PAPR level associated with a probability of 0.1%

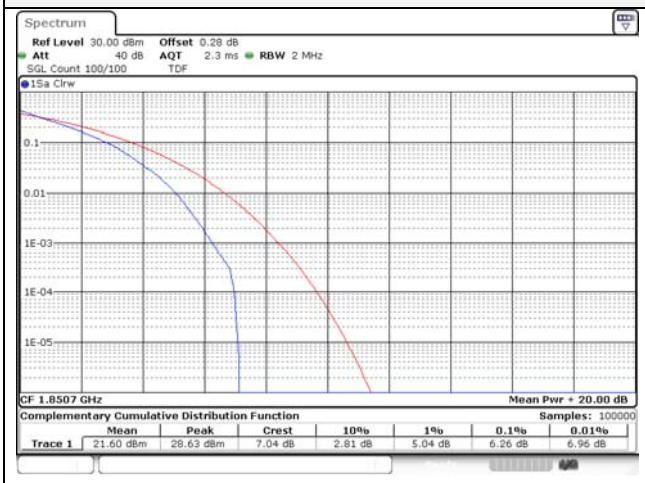
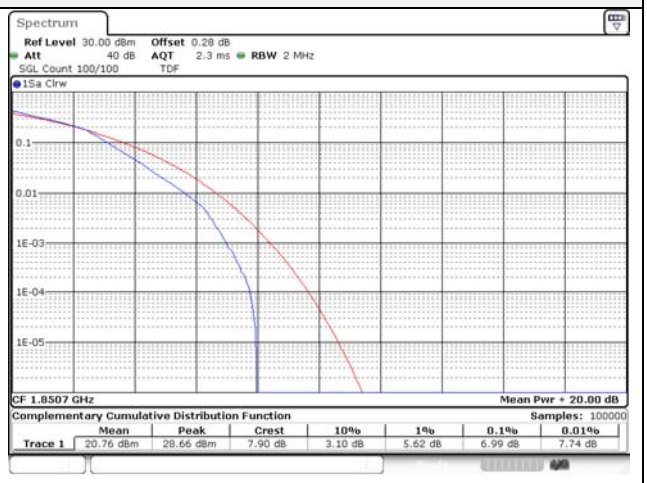
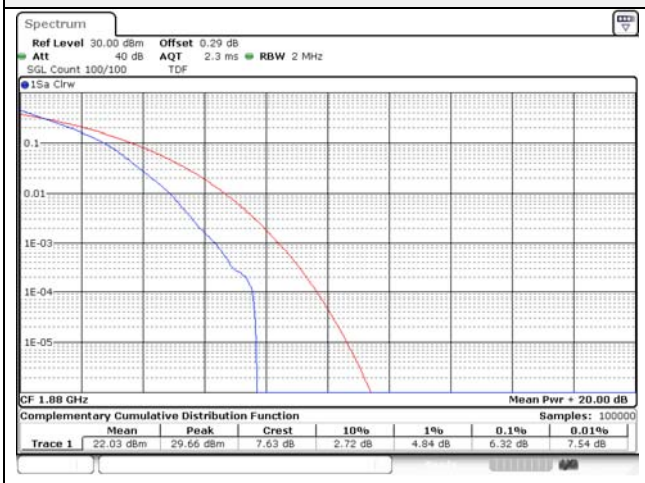
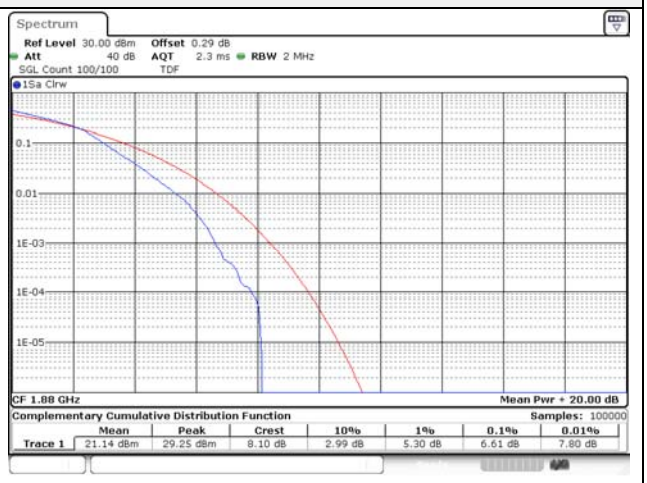
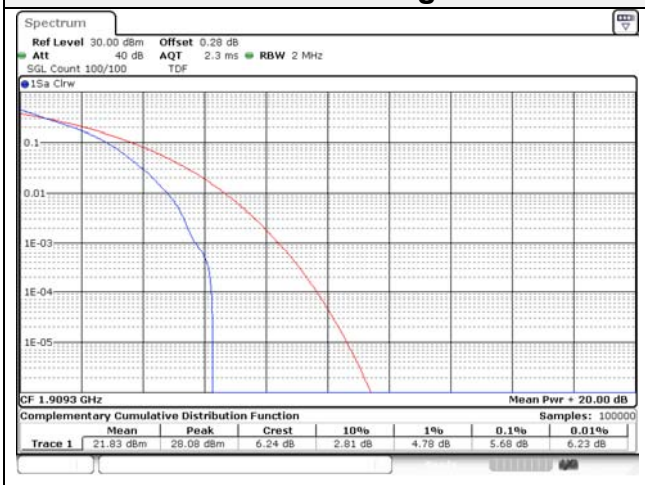
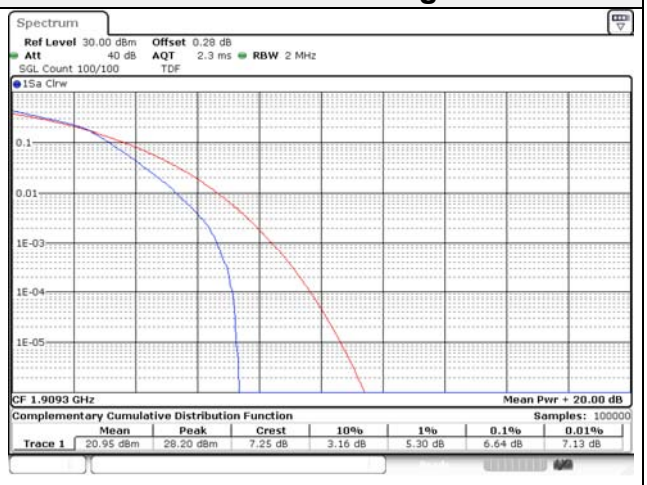
5.2.6 Peak-to-average power ratio

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{PK}.
Use one of the applicable procedure presented 5.2(ANSI C63.26-2015) to measure the total average power and record as P_{AG}. Determine the P.A.P.R from:

$PAPR(dB) = P_{PK}(dBm \text{ or } dBW) - P_{AG}(dBm \text{ or } dBW)$

Test results

Test mode: LTE Band 2

1.4M BW QPSK Low ch.	1.4M BW 16QAM Low ch.
	
1.4M BW QPSK Mid ch.	**1.4M BW 16QAM Mid ch.**
	
1.4M BW QPSK High ch.	**1.4M BW 16QAM High ch.**
	

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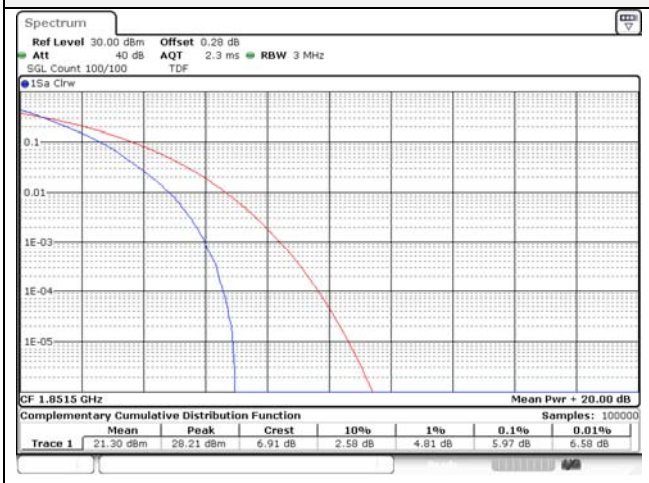
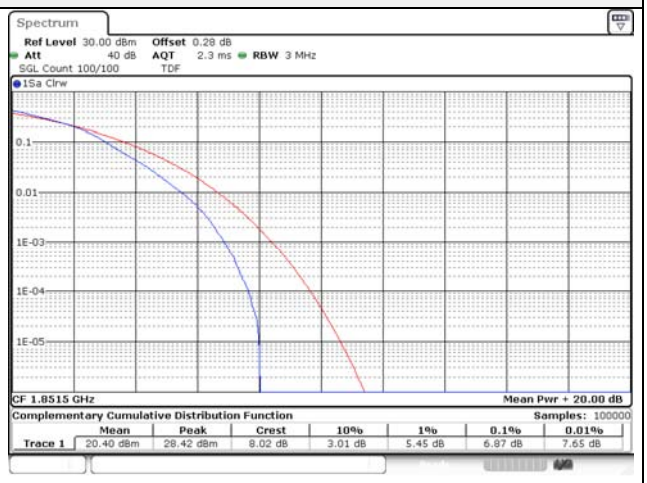


3M BW 16QAM Low ch.



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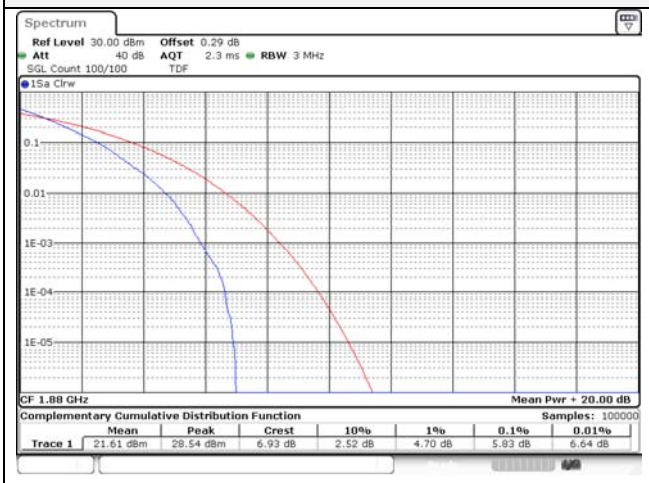

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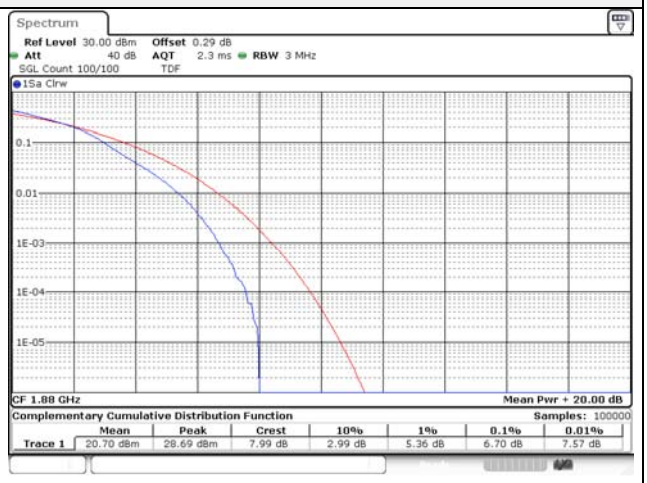

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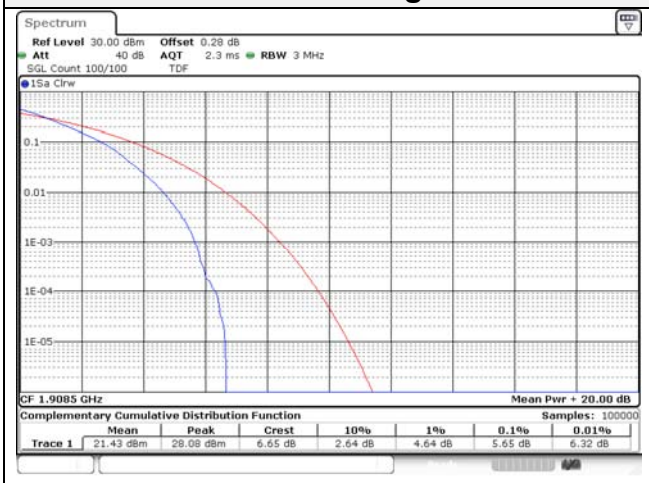

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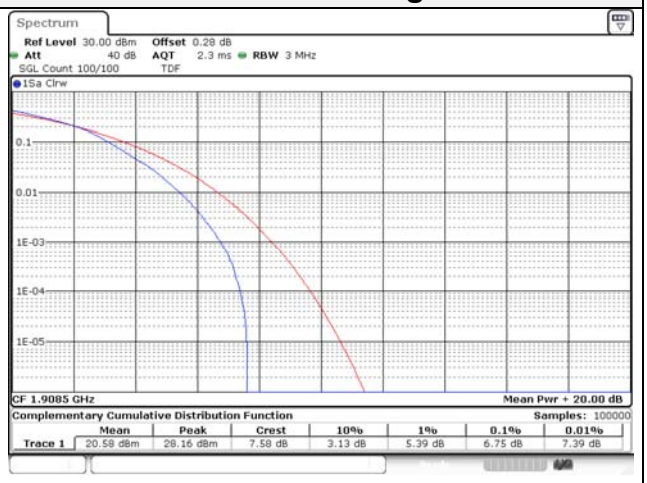

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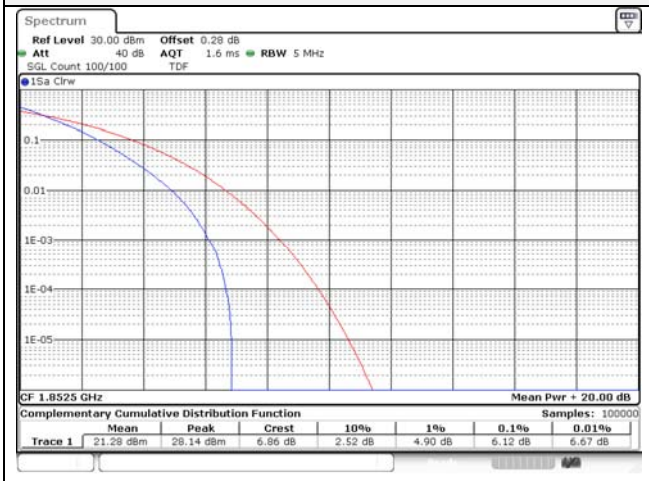

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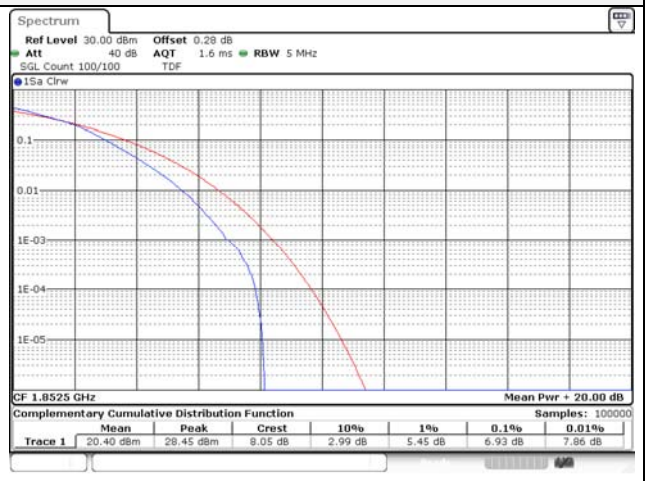

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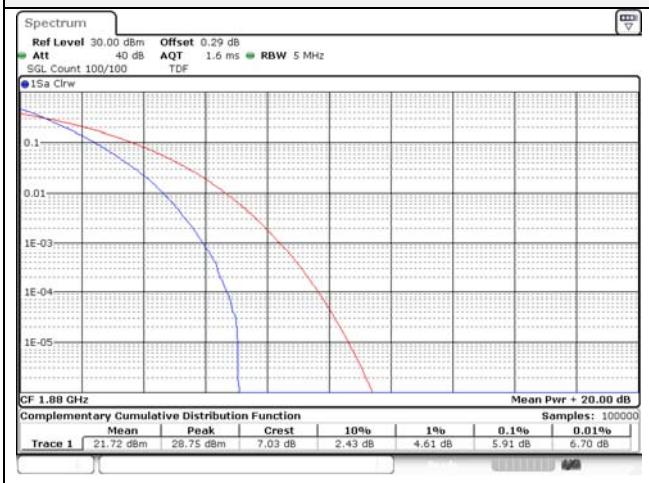
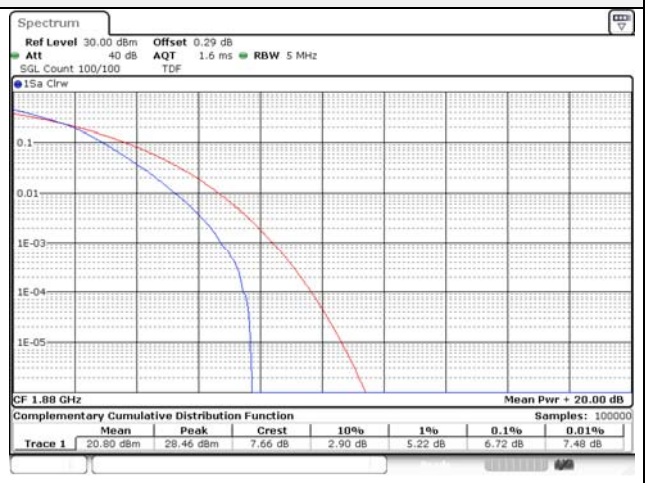


5M BW 16QAM Mid ch.



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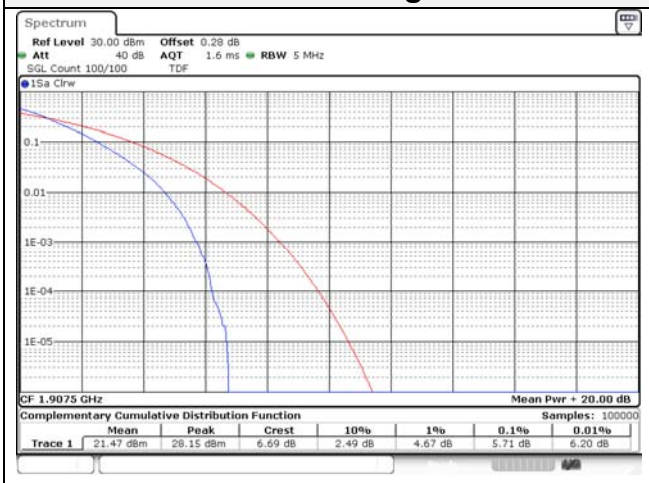

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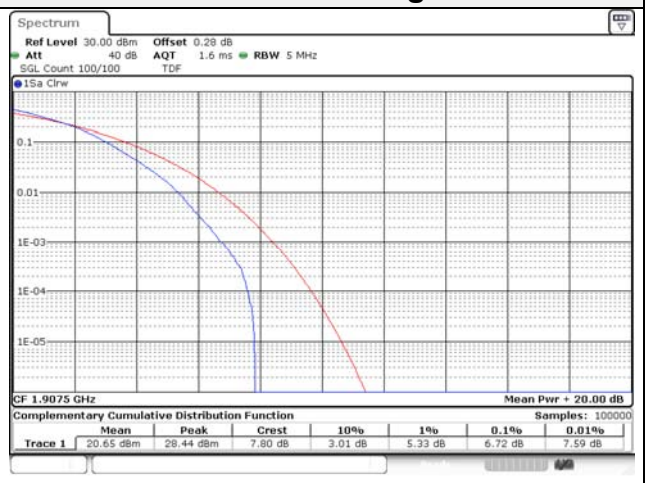

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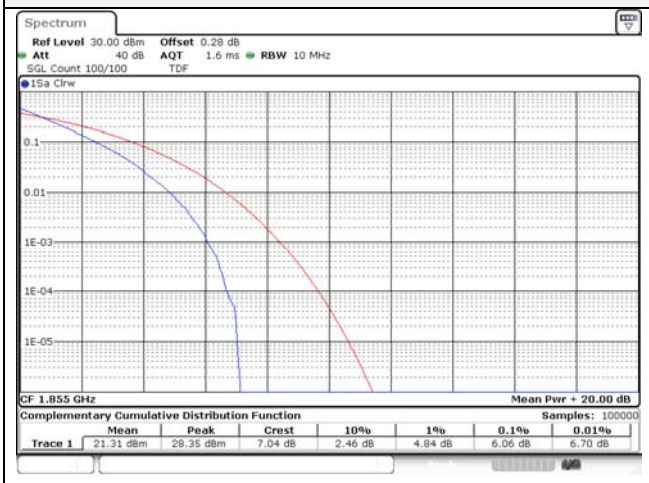

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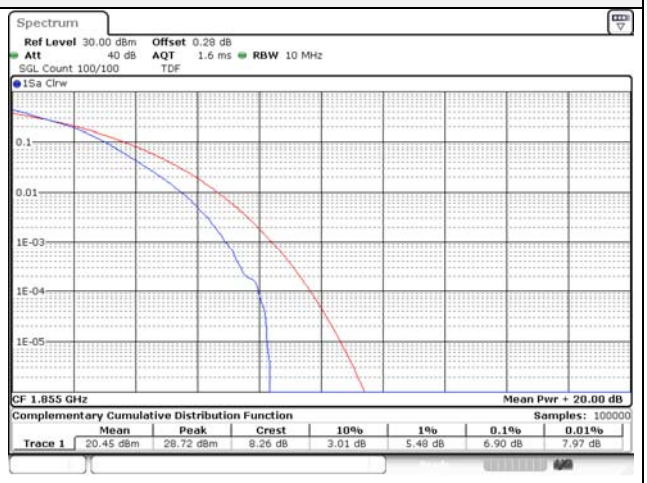

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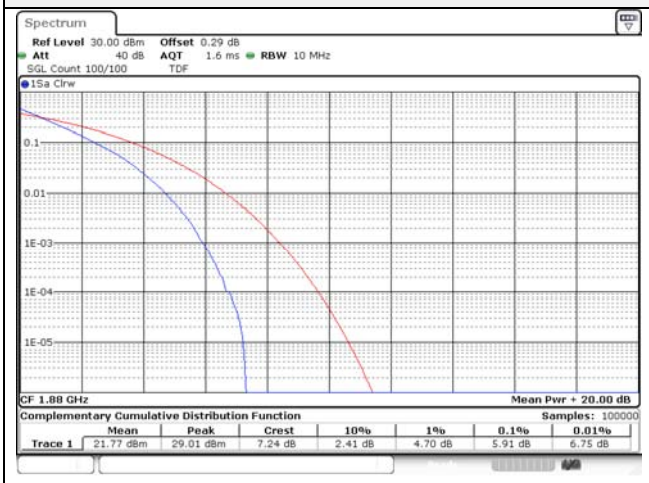

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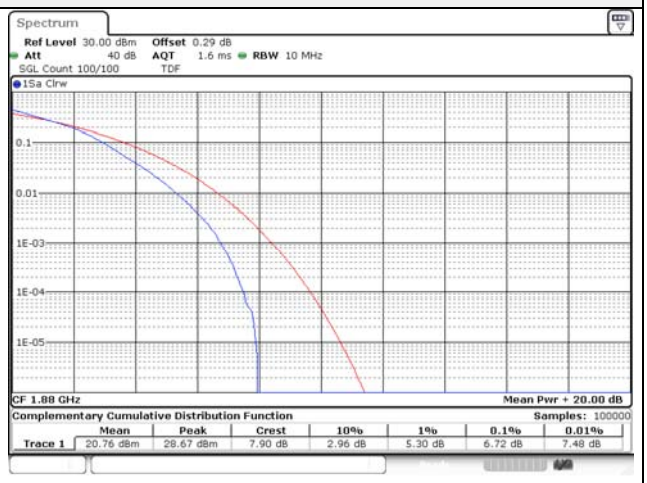

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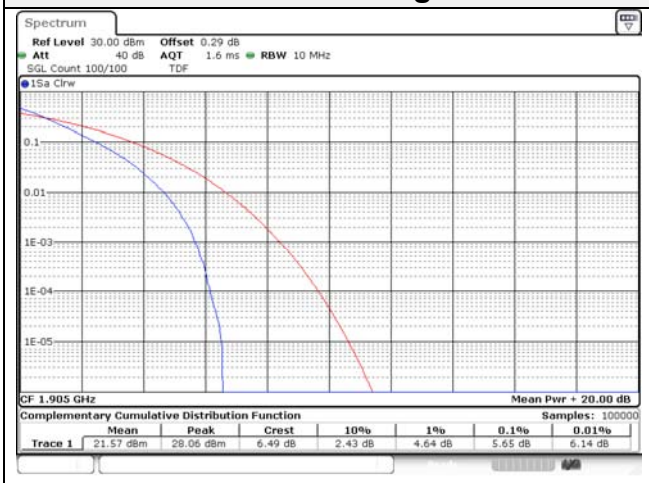

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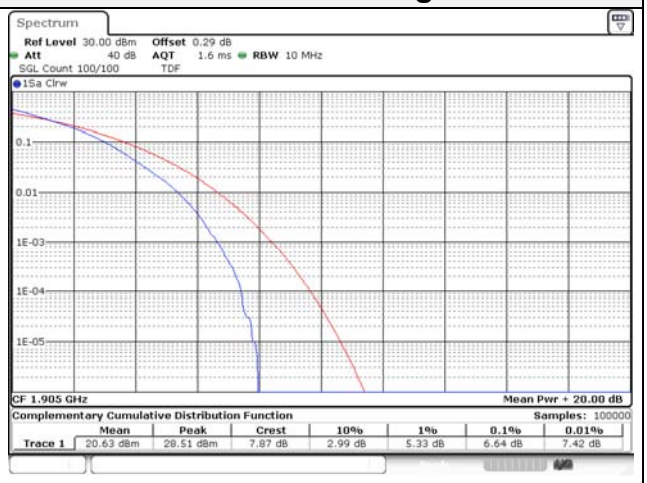

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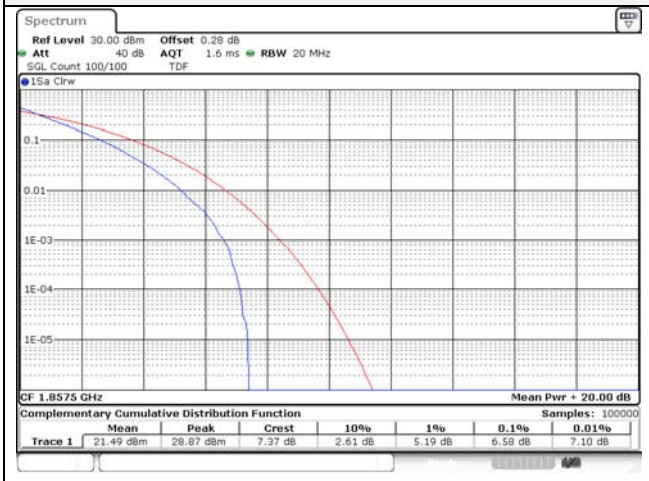

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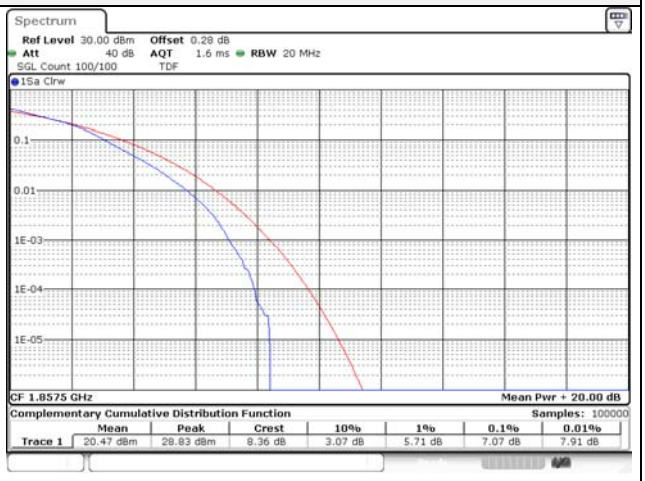

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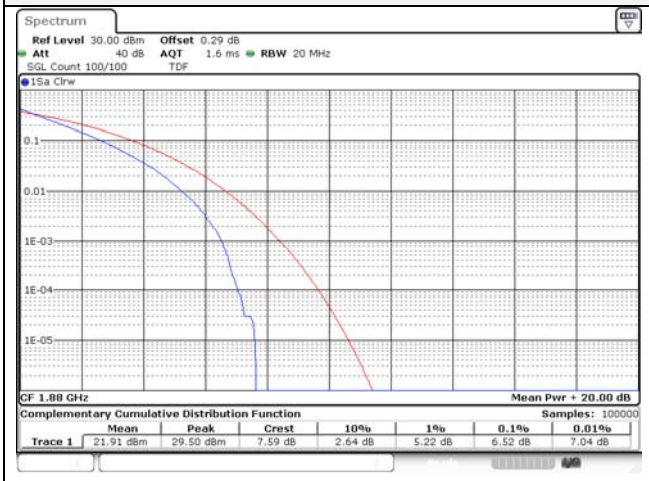

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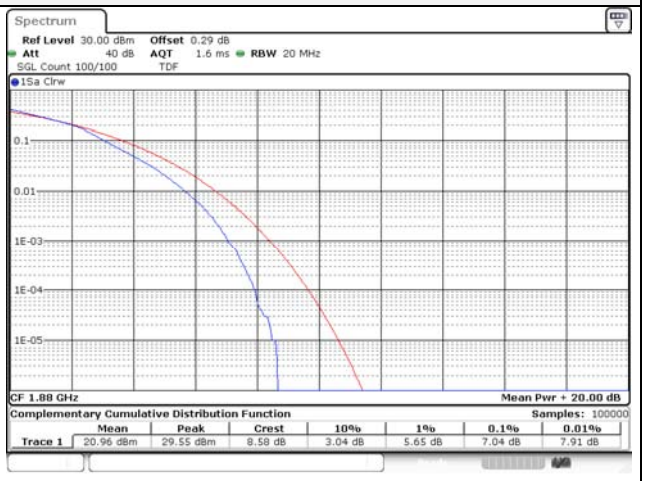

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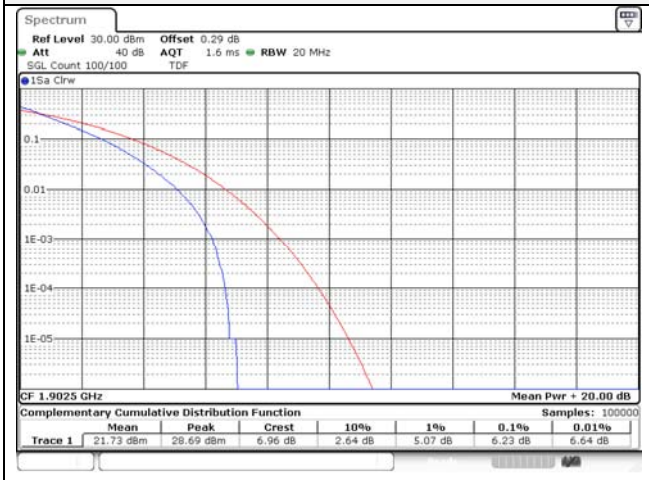

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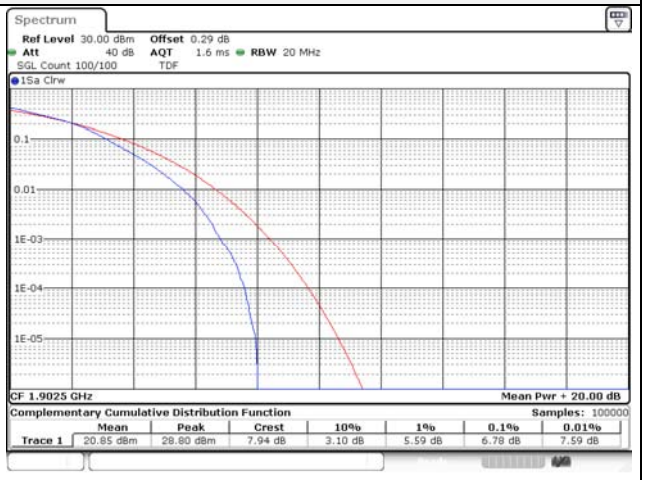

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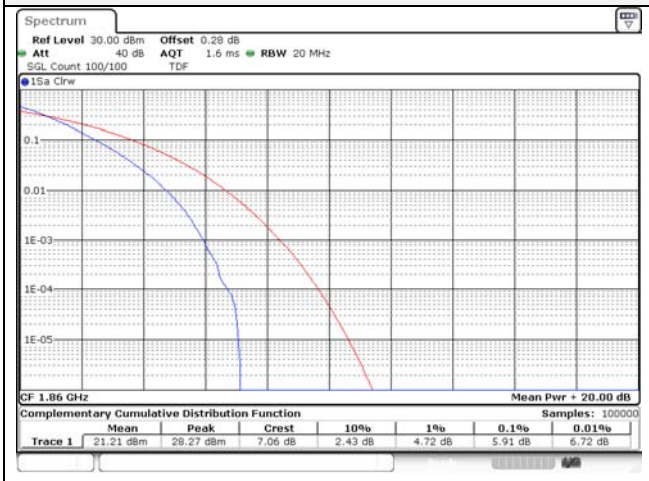

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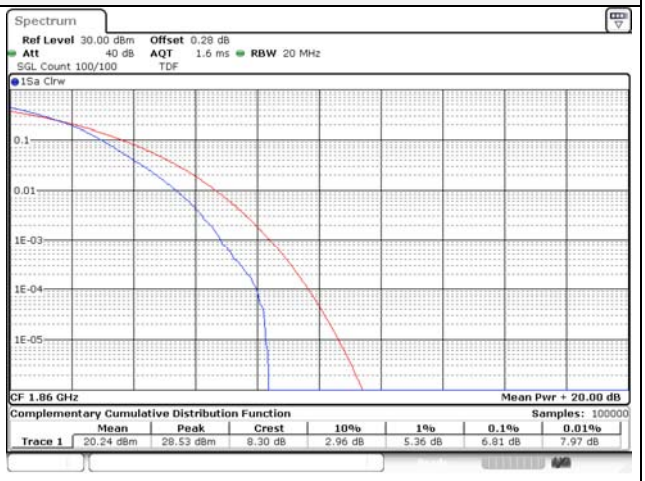

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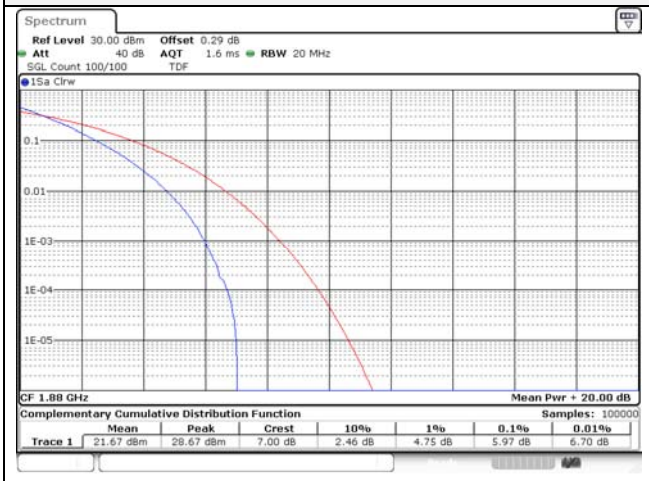

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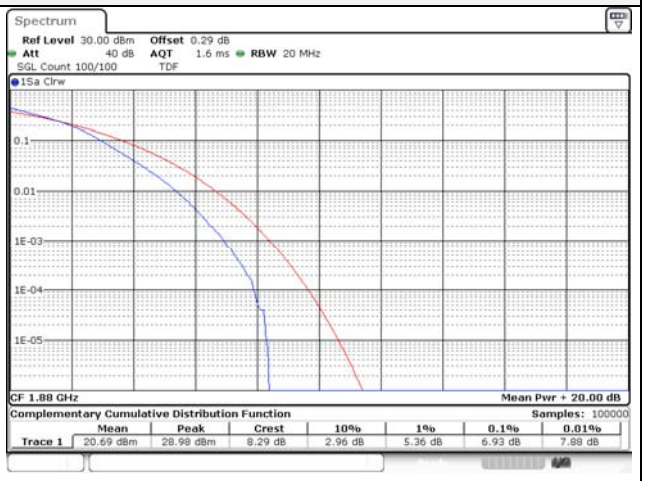
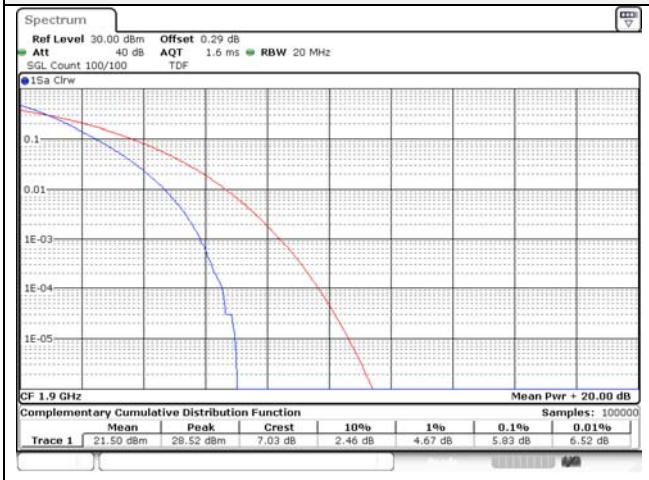
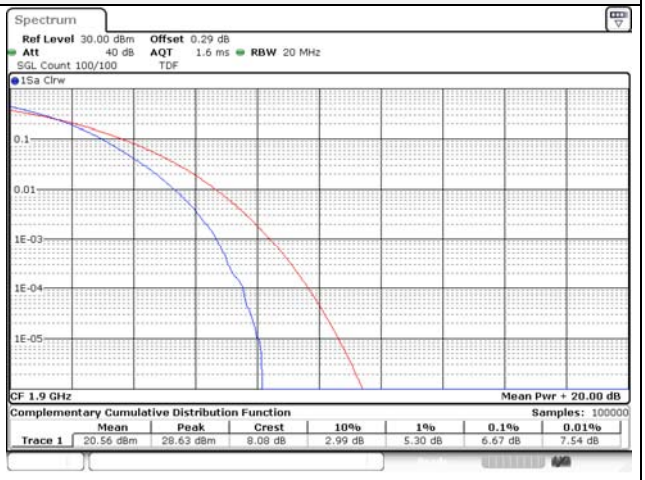


20M BW QPSK / High ch.

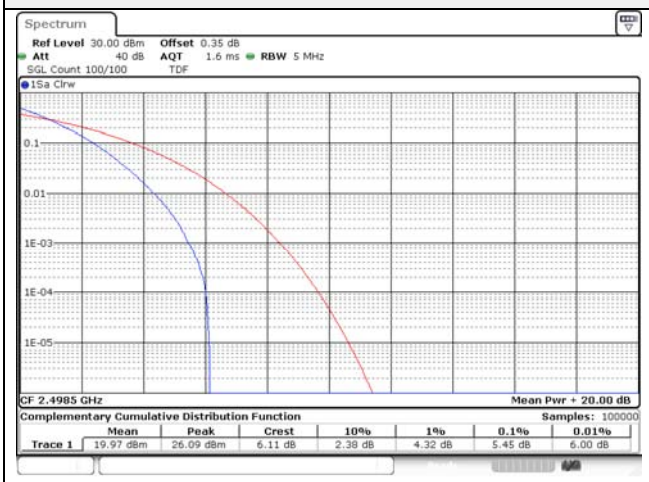


20M BW 16QAM High ch.

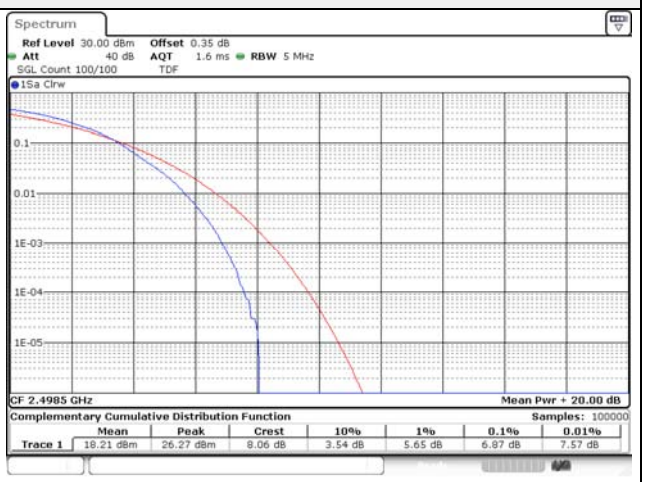


Test mode: LTE Band 41

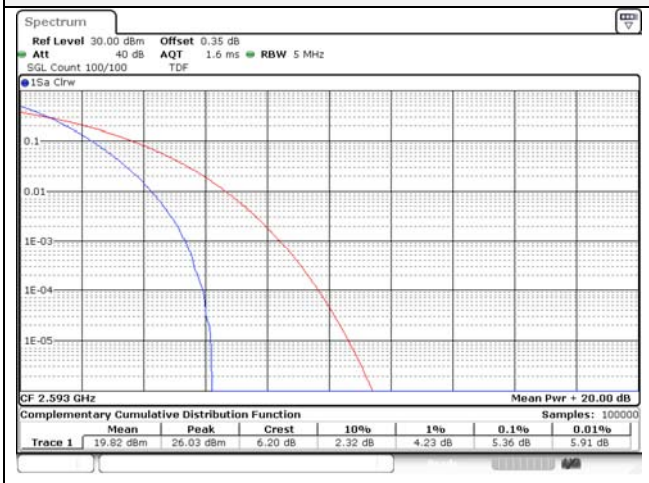
5M BW QPSK Low ch.



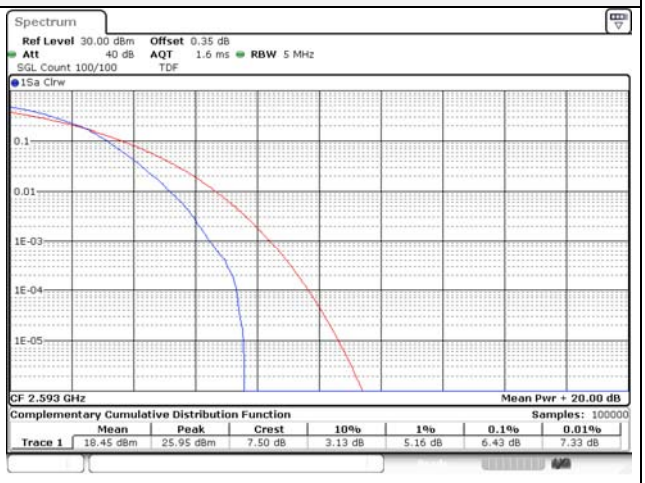
5M BW 16QAM Low ch.



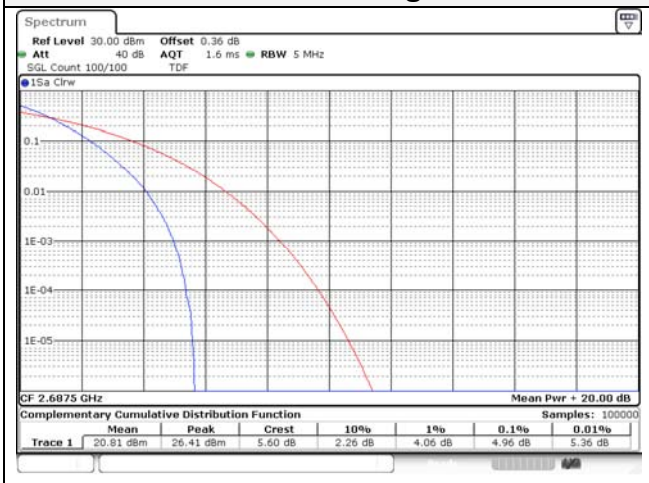
5M BW QPSK Mid ch.



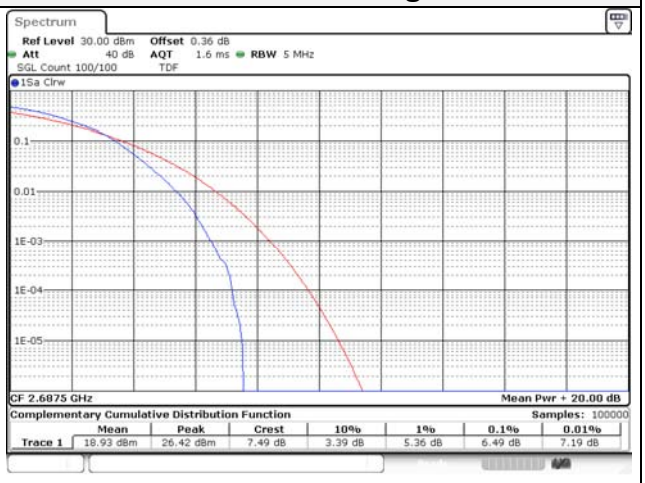
5M BW 16QAM Mid ch.



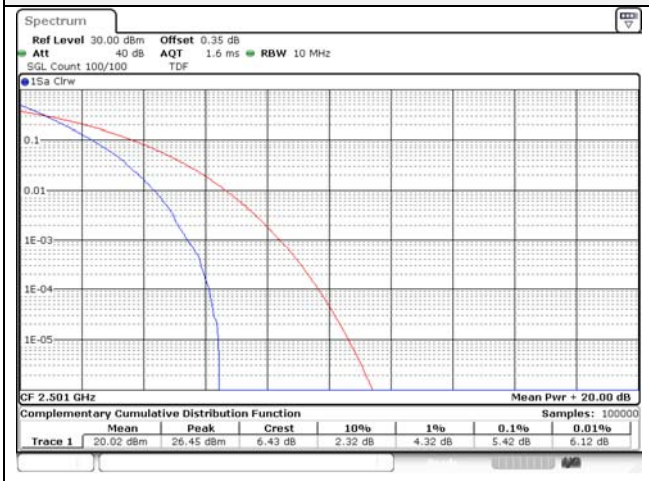
5M BW QPSK High ch.



5M BW 16QAM High ch.



10M BW QPSK Low ch.



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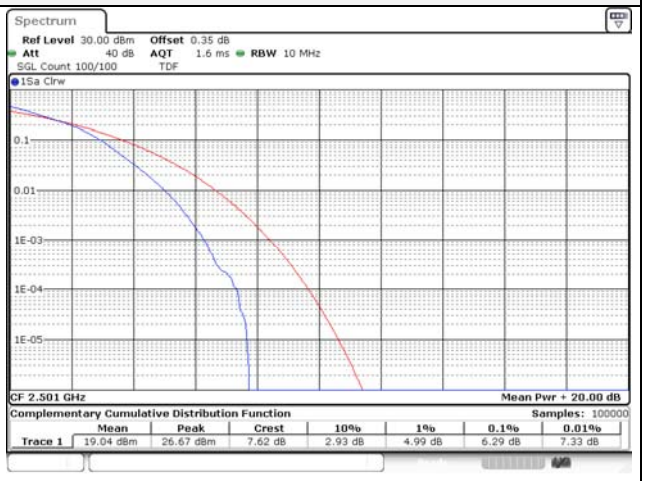
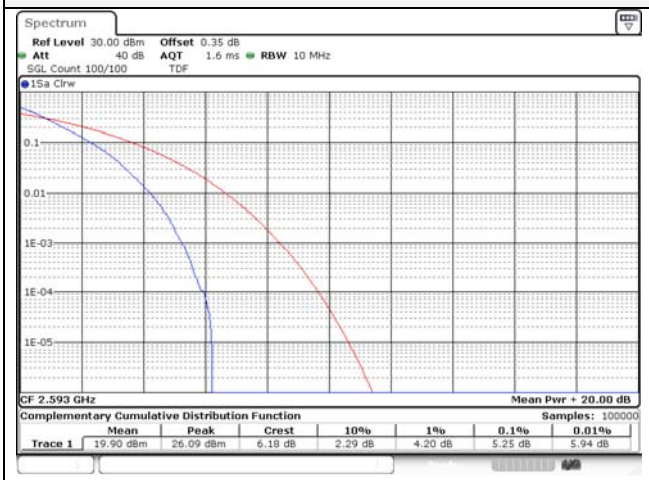


10M BW QPSK Mid ch.



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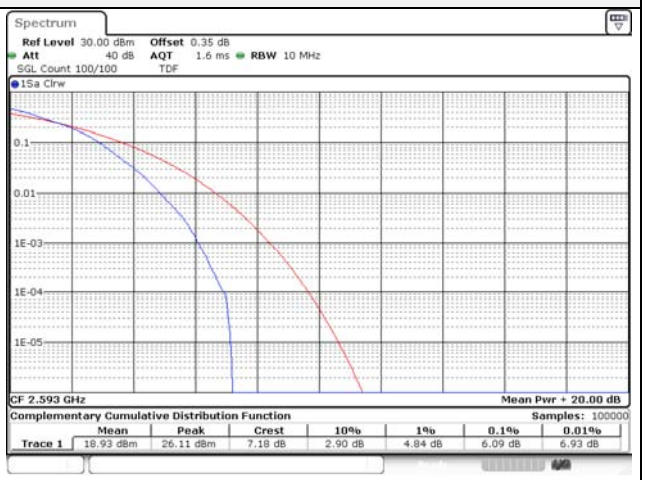

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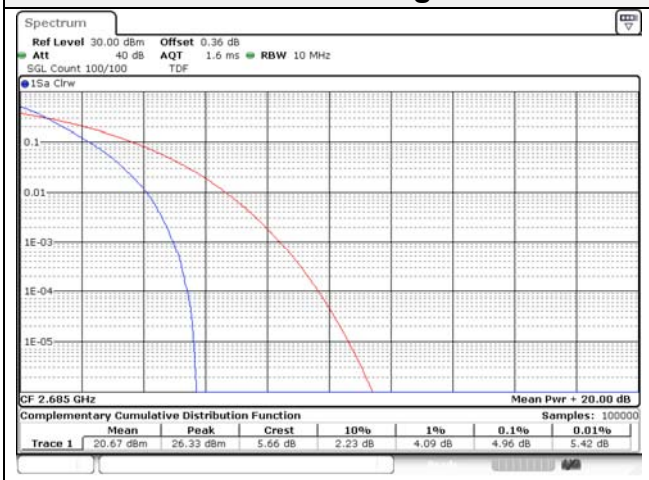

10M BW 16QAM High ch.