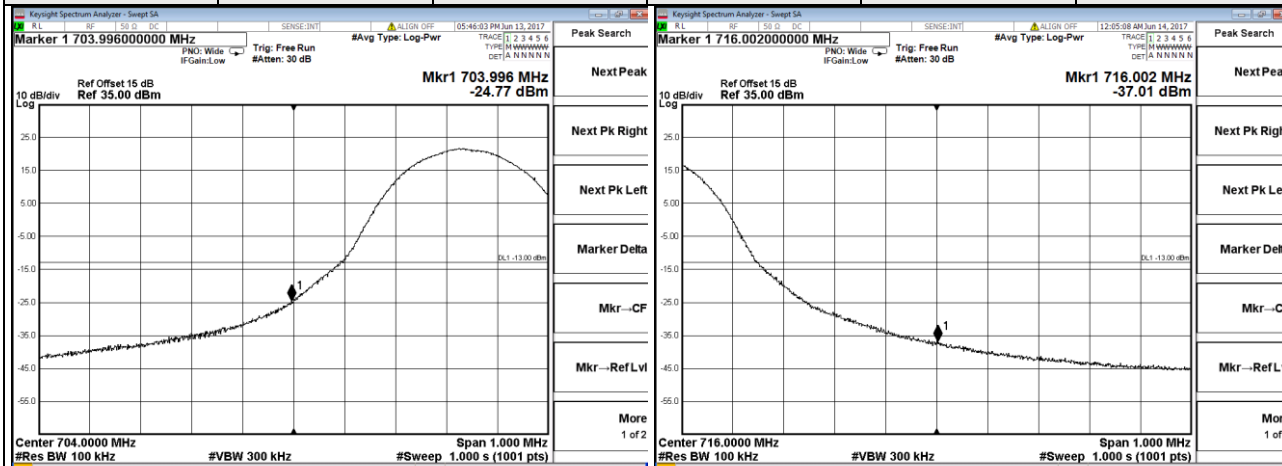


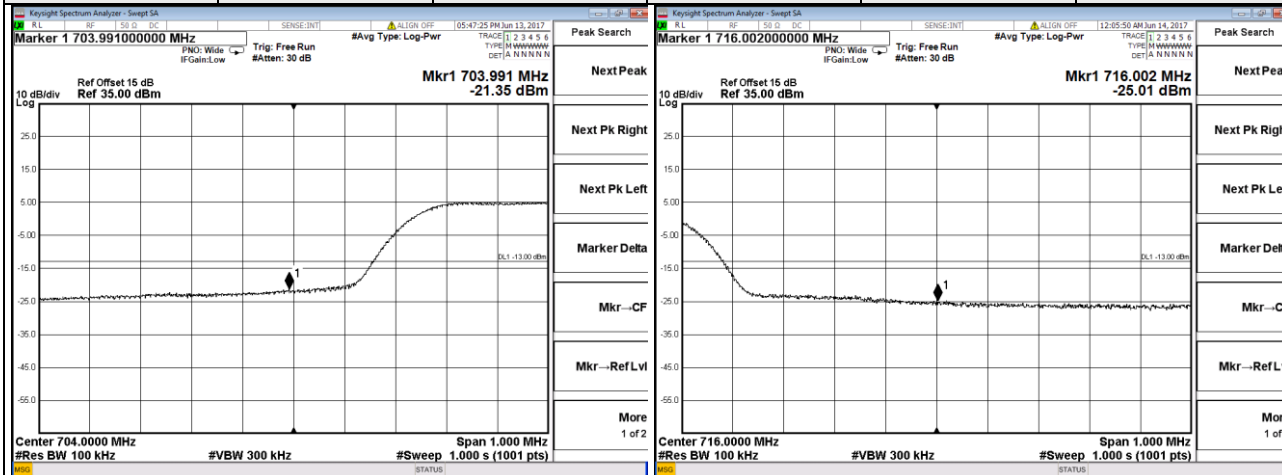
LTE Band 17

Channel Bandwidth 5MHz

Channel	23755	1 RB	Channel	23825	1 RB
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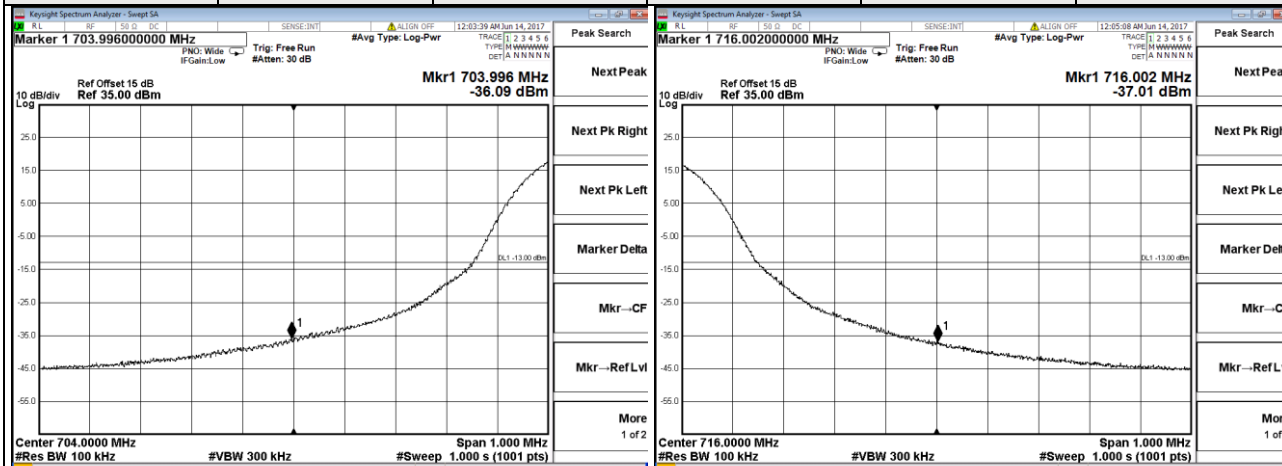
Channel	23755	25 RB	Channel	23825	25 RB
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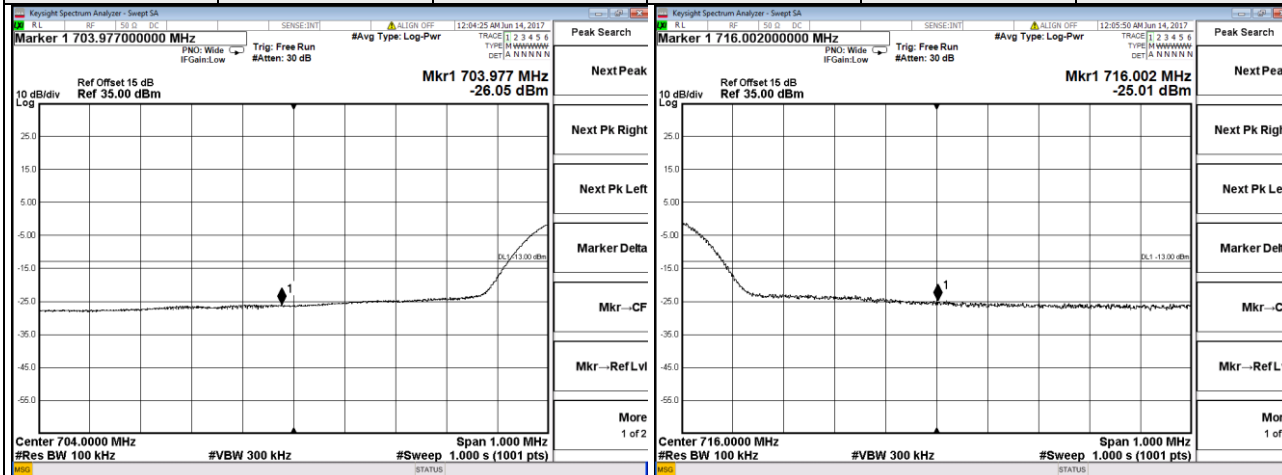
LTE Band 17

Channel Bandwidth 10MHz

Channel	23780	1 RB	Channel	23825	1 RB
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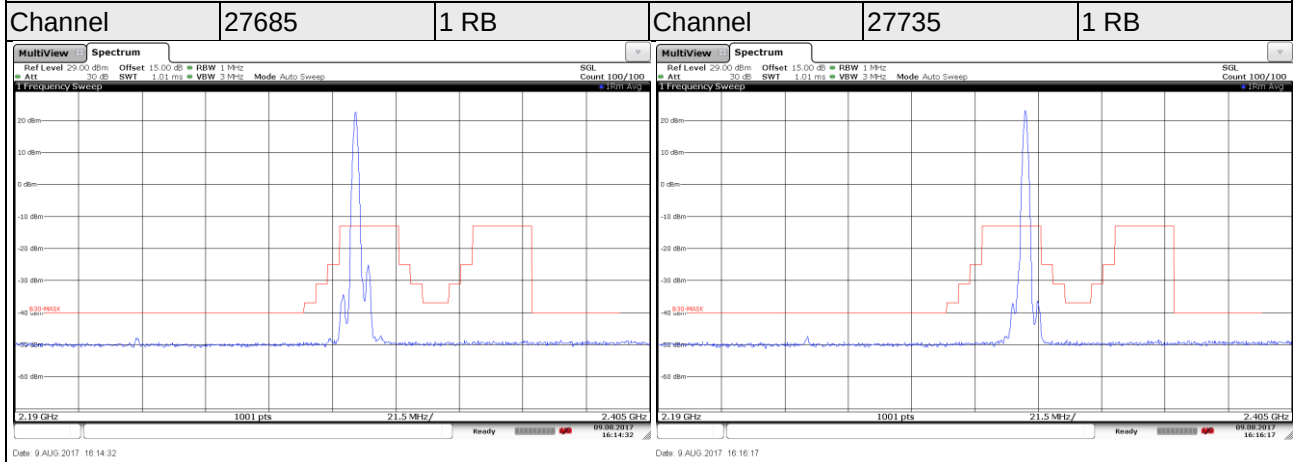


Channel	23780	50 RB	Channel	23825	50 RB
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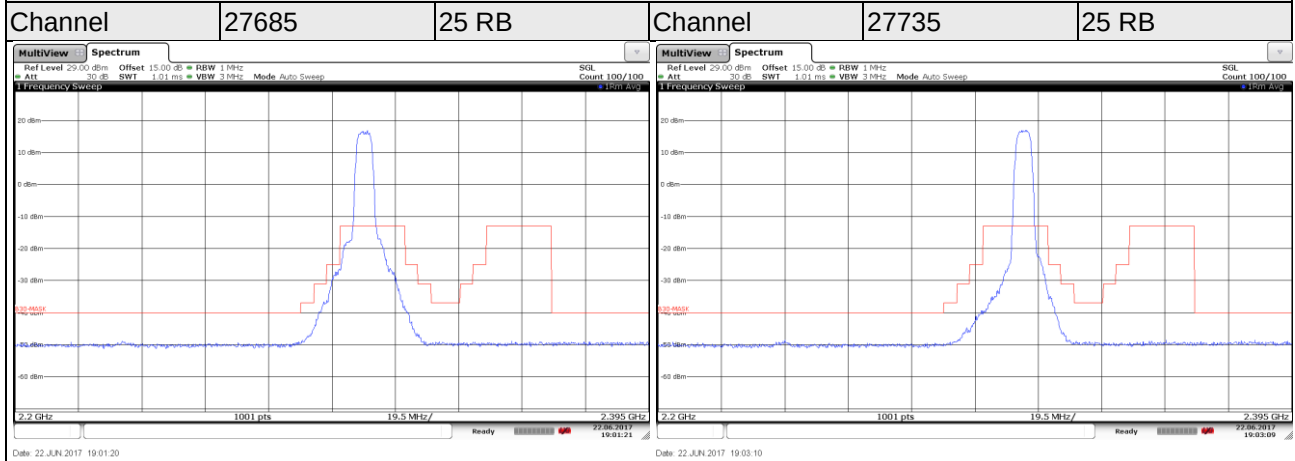


LTE Band 30

Channel Bandwidth 5MHz



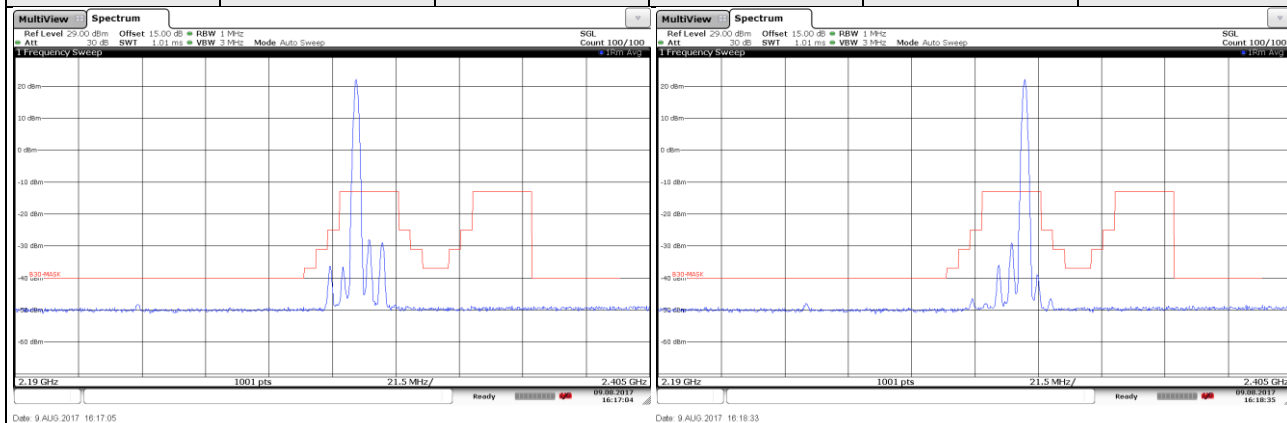
Channel Bandwidth 5MHz



LTE Band 30

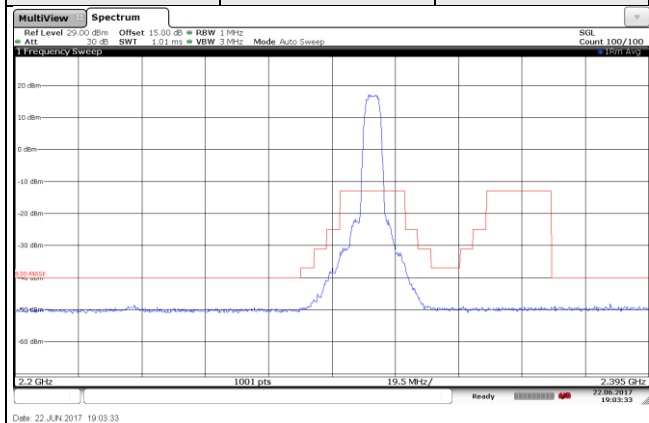
Channel Bandwidth 10MHz

Channel	27710	1 RB	Channel	27710	1 RB
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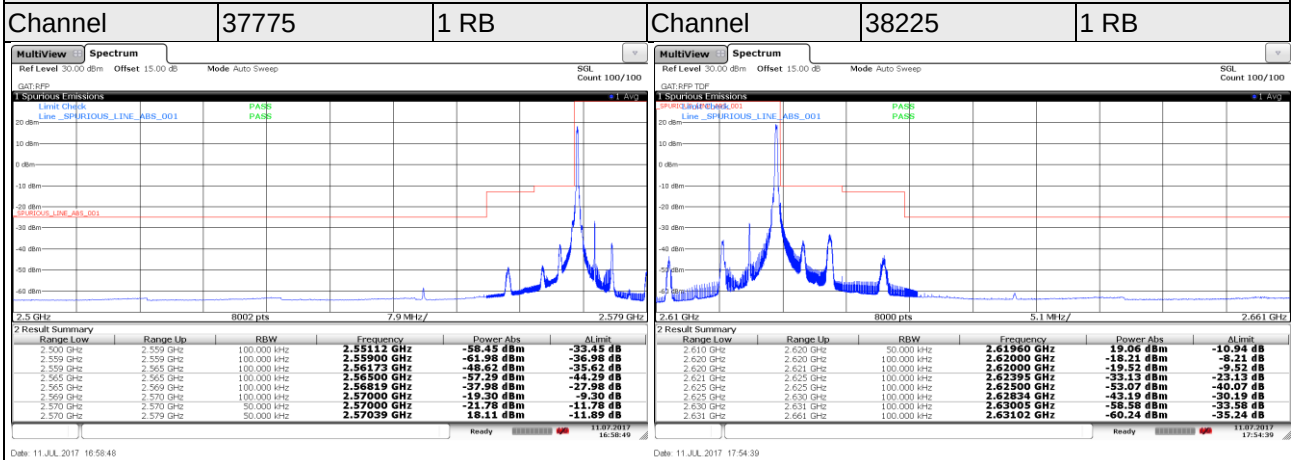
Channel Bandwidth 10MHz

Channel	27710	50 RB
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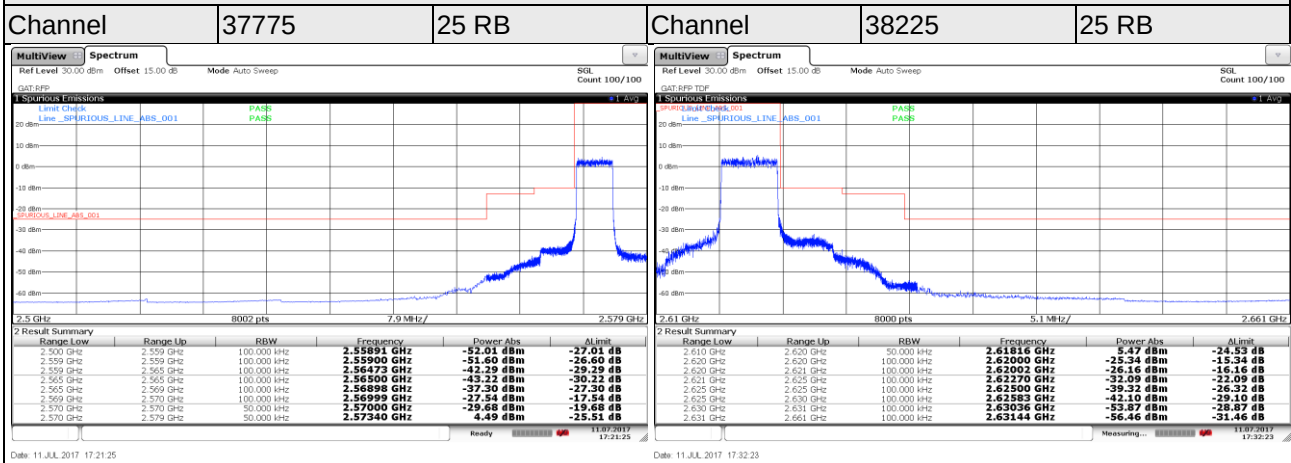


LTE Band 38

Channel Bandwidth 5MHz

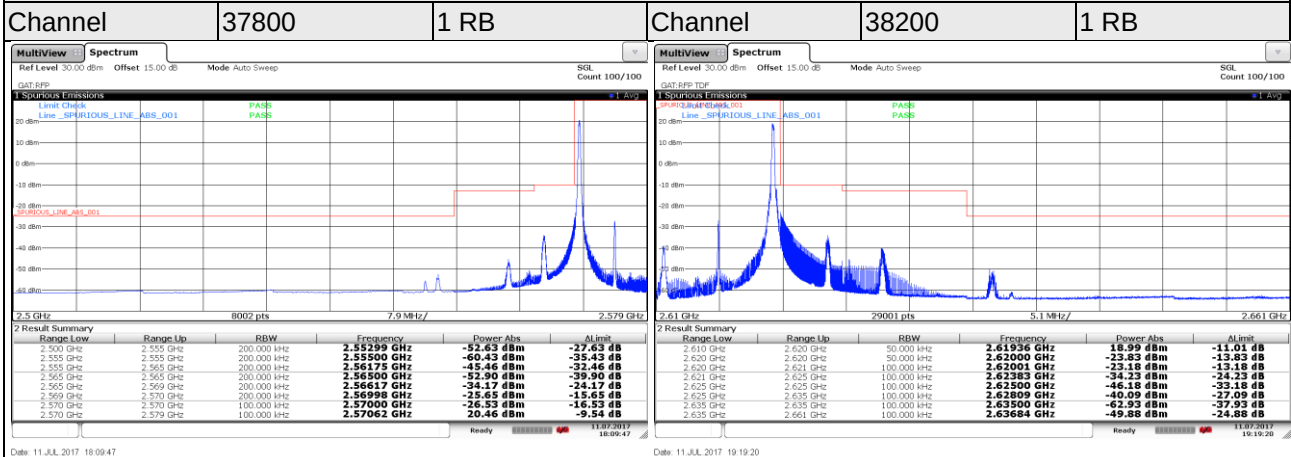


Channel Bandwidth 5MHz

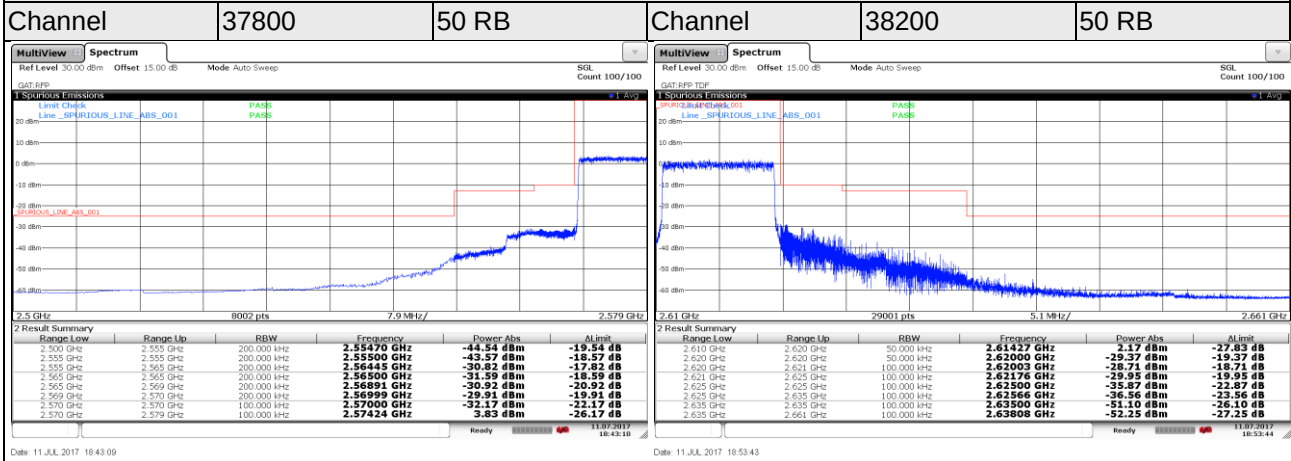


LTE Band 38

Channel Bandwidth 10MHz

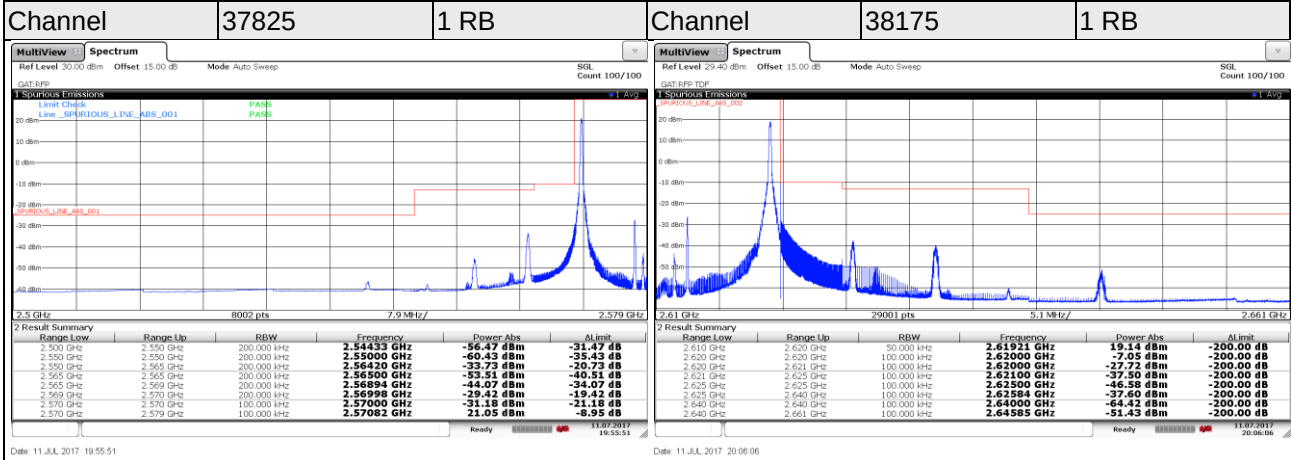


Channel Bandwidth 10MHz

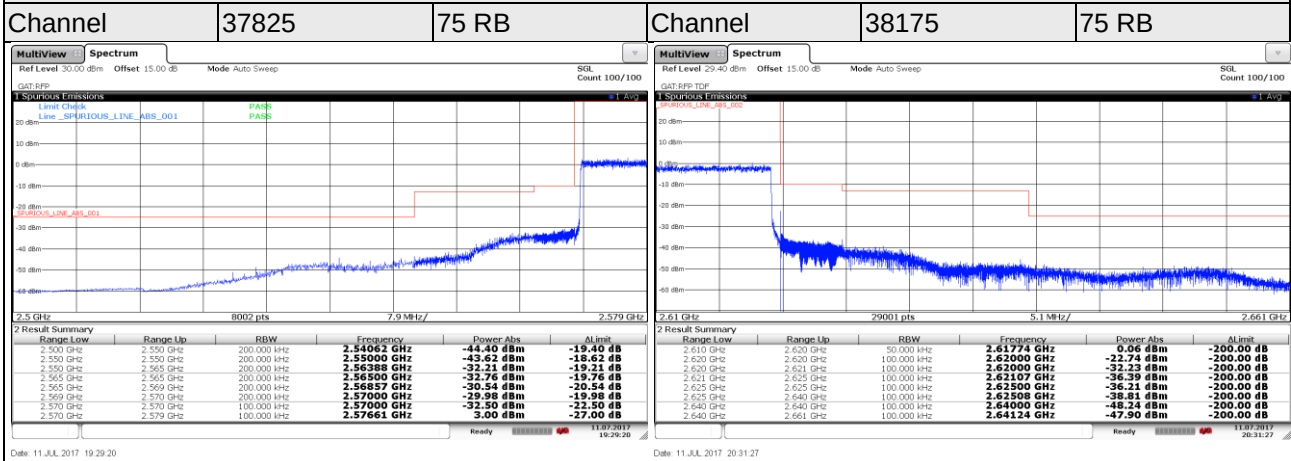


LTE Band 38

Channel Bandwidth 15MHz

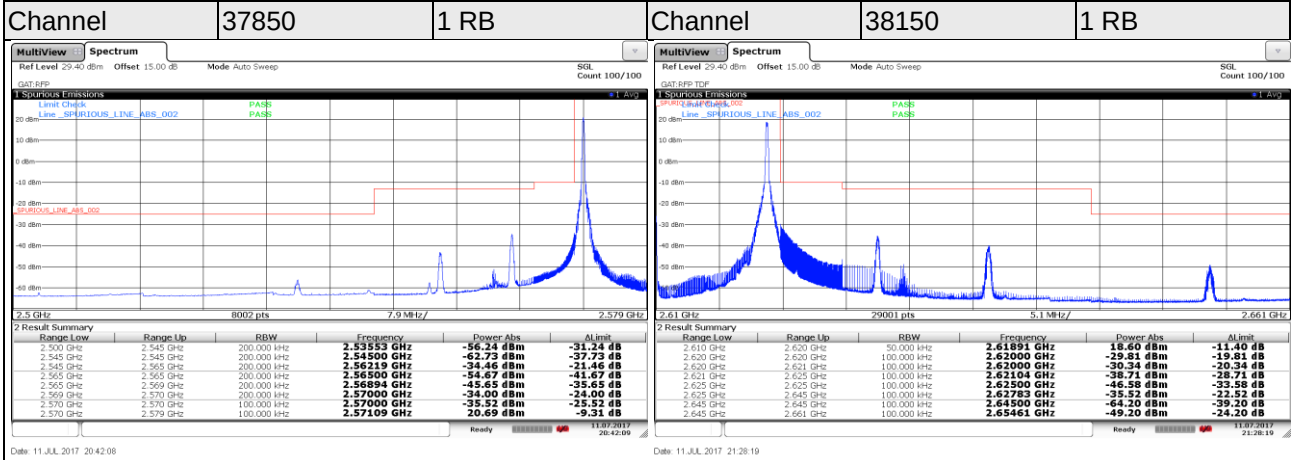


Channel Bandwidth 15MHz

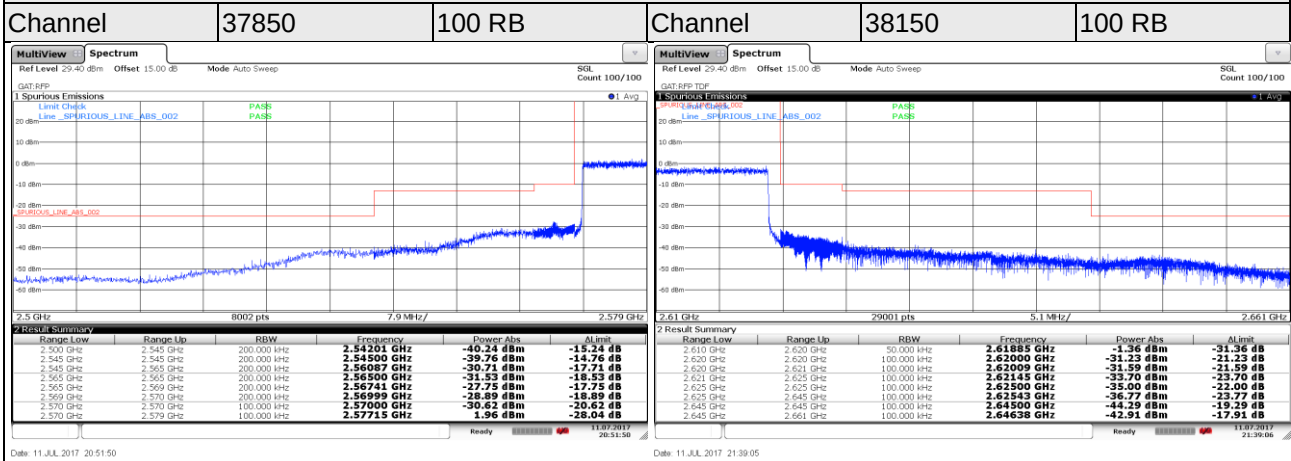


LTE Band 38

Channel Bandwidth 20MHz

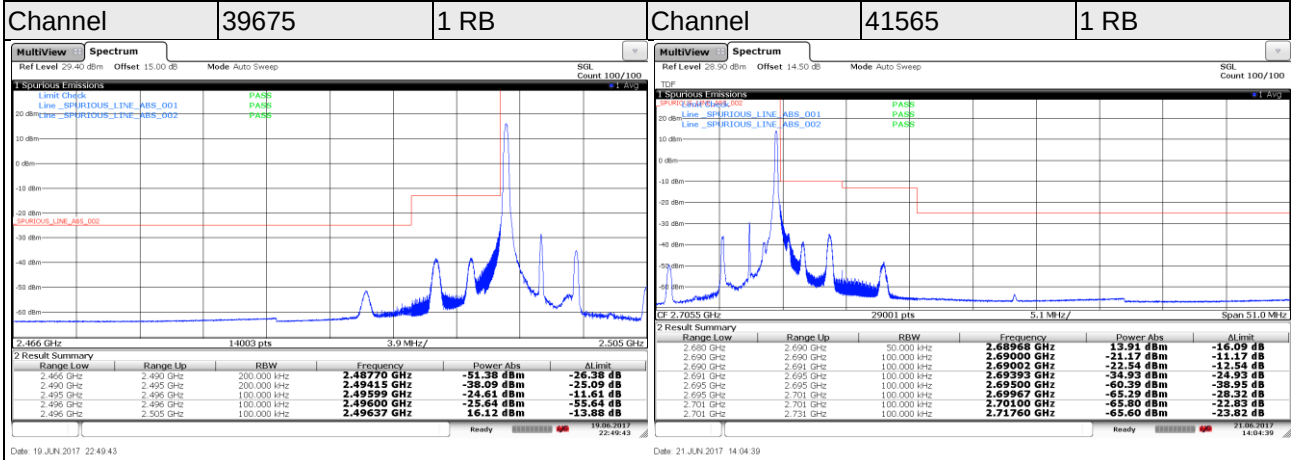


Channel Bandwidth 20MHz

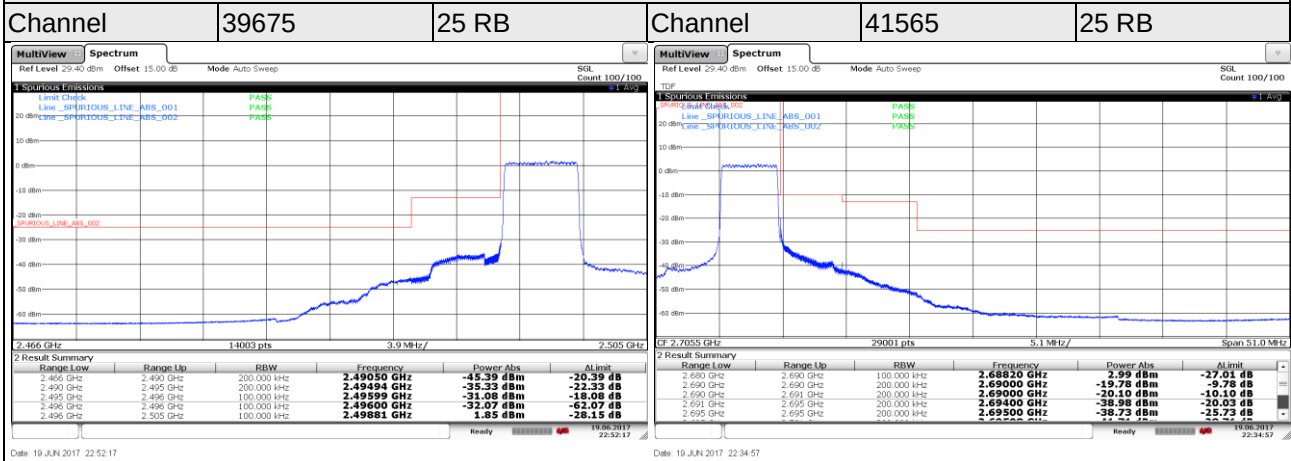


LTE Band 41

Channel Bandwidth 5MHz

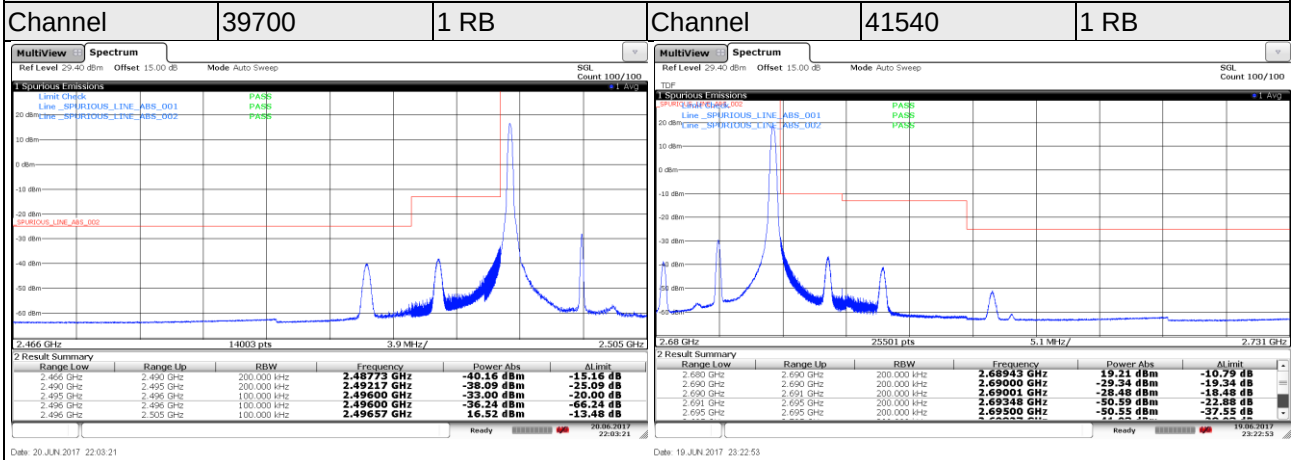


Channel Bandwidth 5MHz

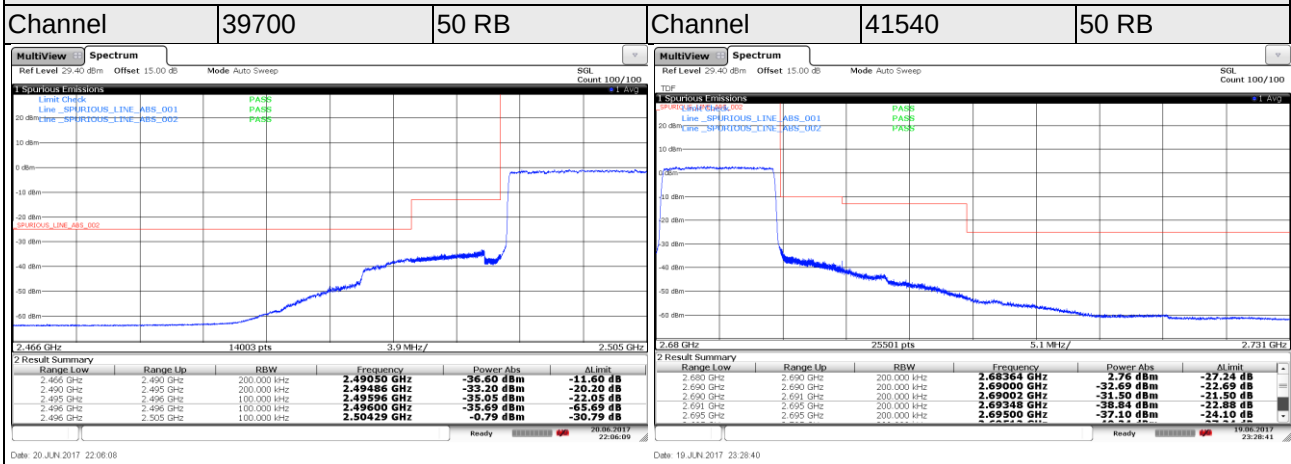


LTE Band 41

Channel Bandwidth 10MHz

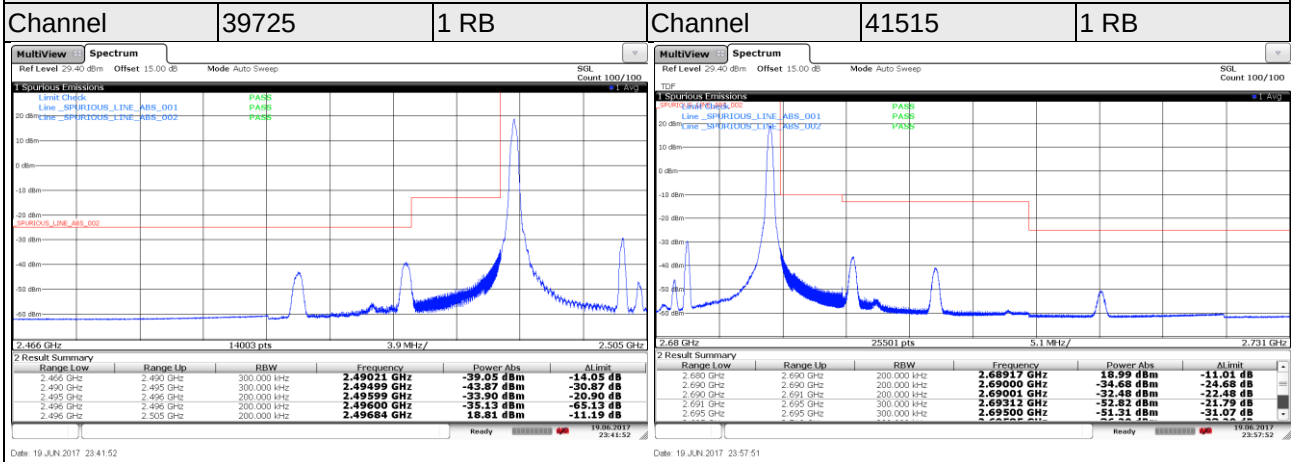


Channel Bandwidth 10MHz

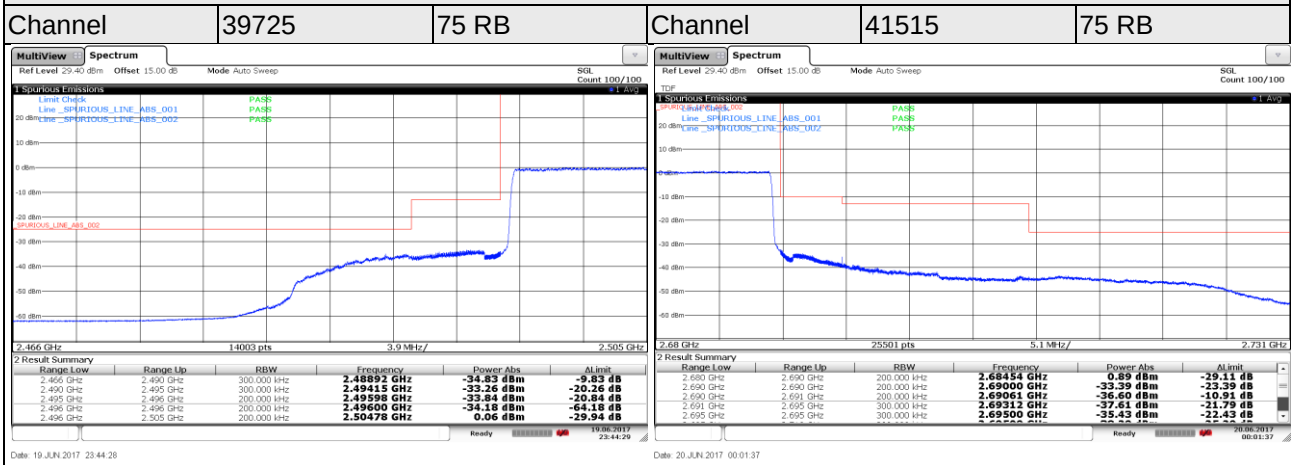


LTE Band 41

Channel Bandwidth 15MHz

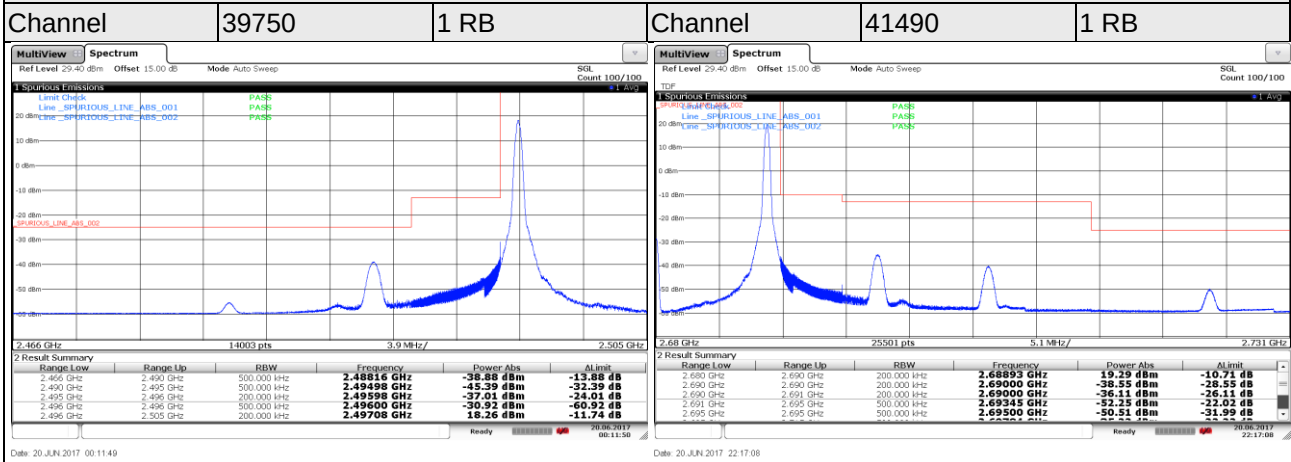


Channel Bandwidth 15MHz

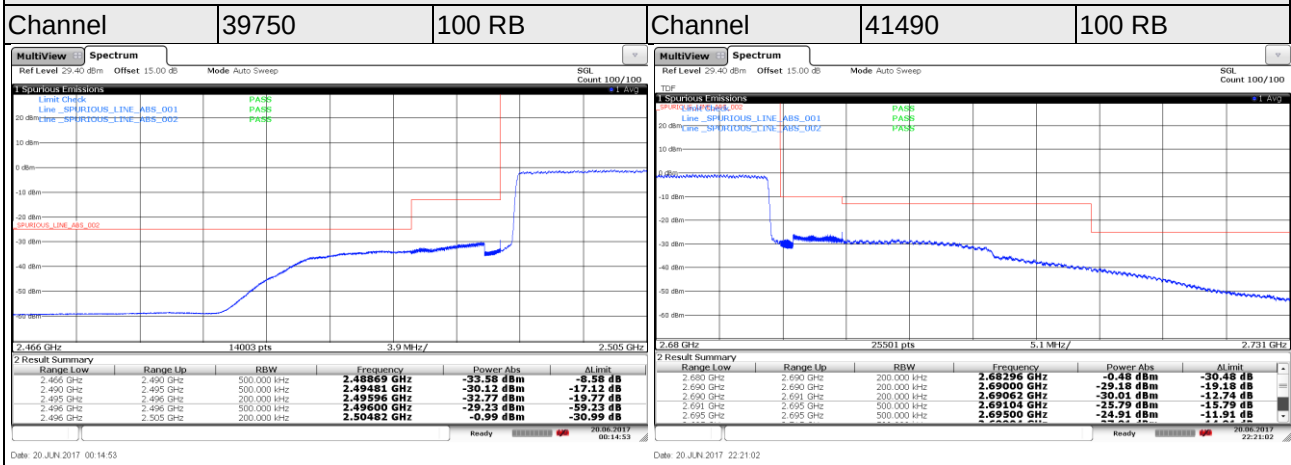


LTE Band 41

Channel Bandwidth 20MHz

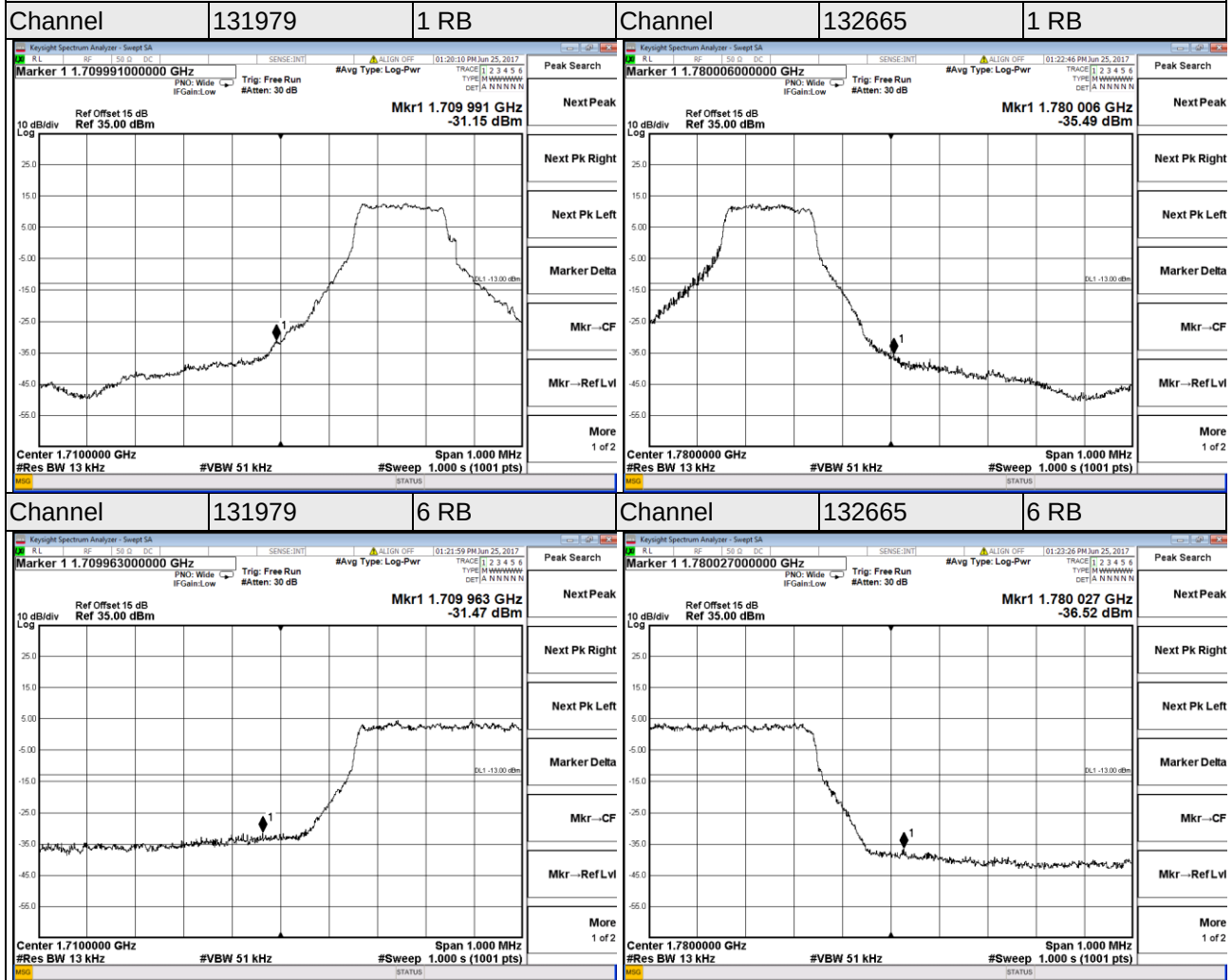


Channel Bandwidth 20MHz



LTE Band 66

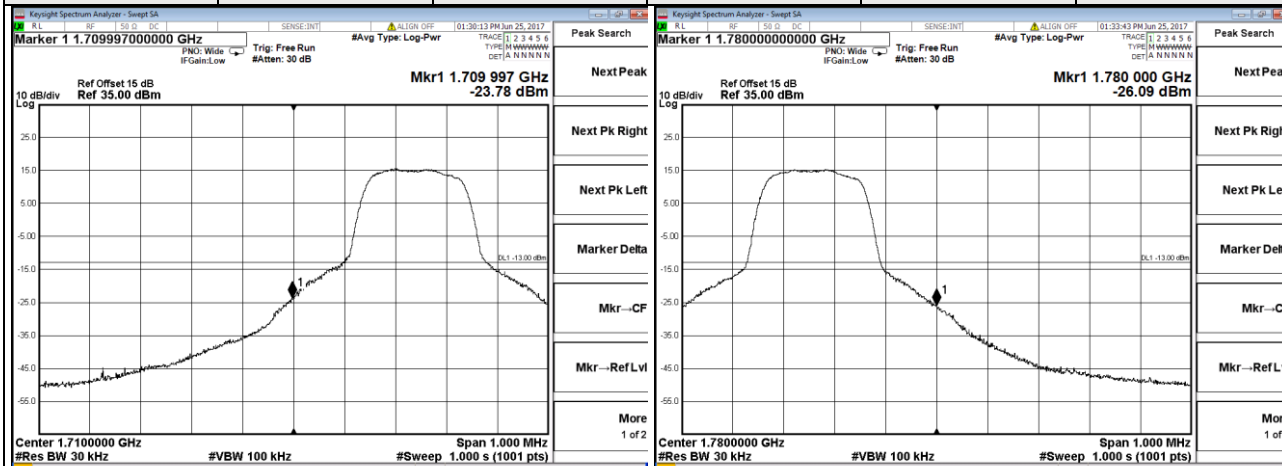
Channel Bandwidth 1.4MHz



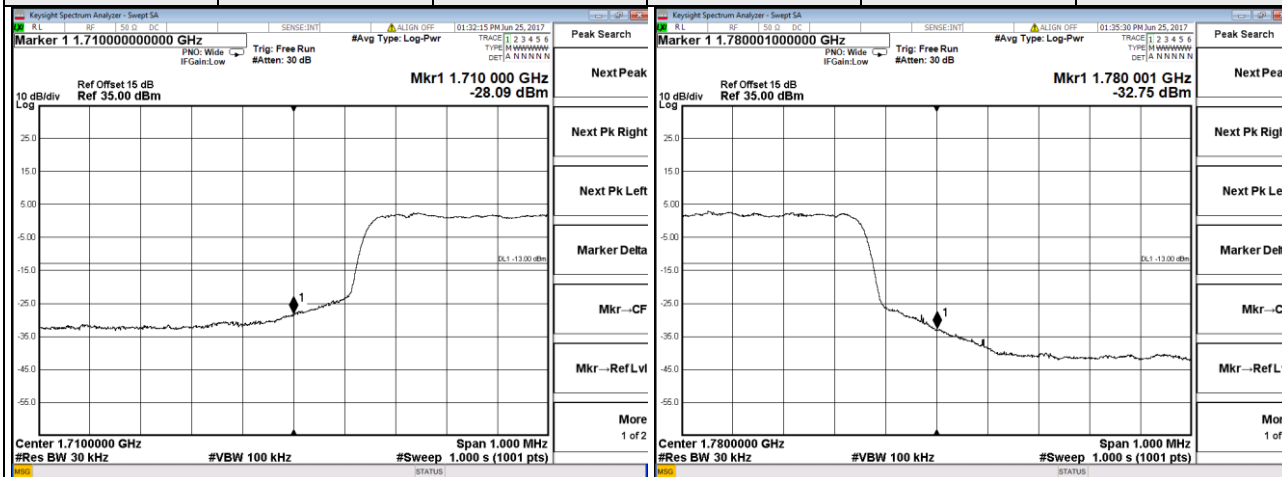
LTE Band 66

Channel Bandwidth 3MHz

Channel	131986	1 RB	Channel	132658	1 RB
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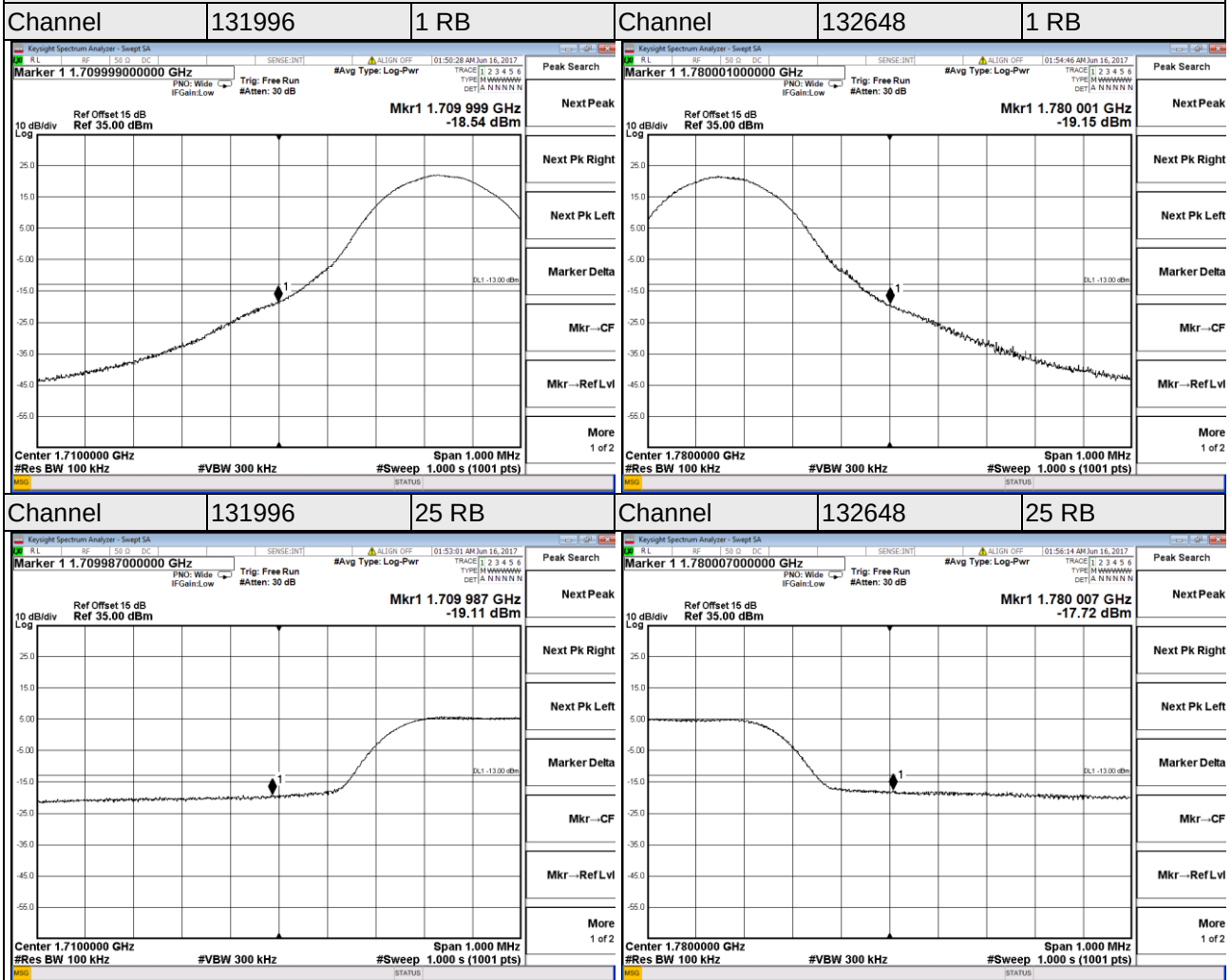


Channel	131986	15 RB	Channel	132658	15 RB
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LTE Band 66

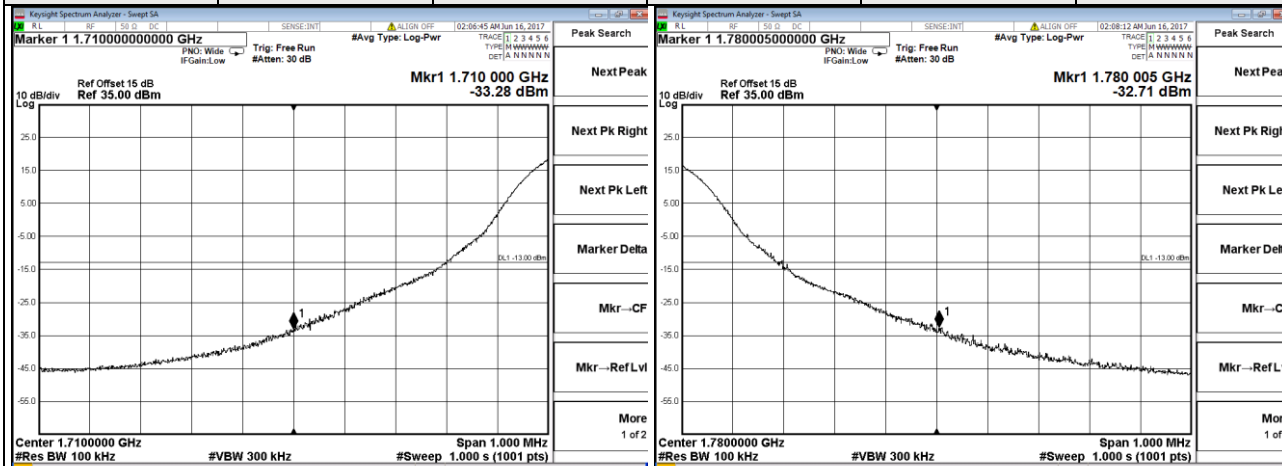
Channel Bandwidth 5MHz



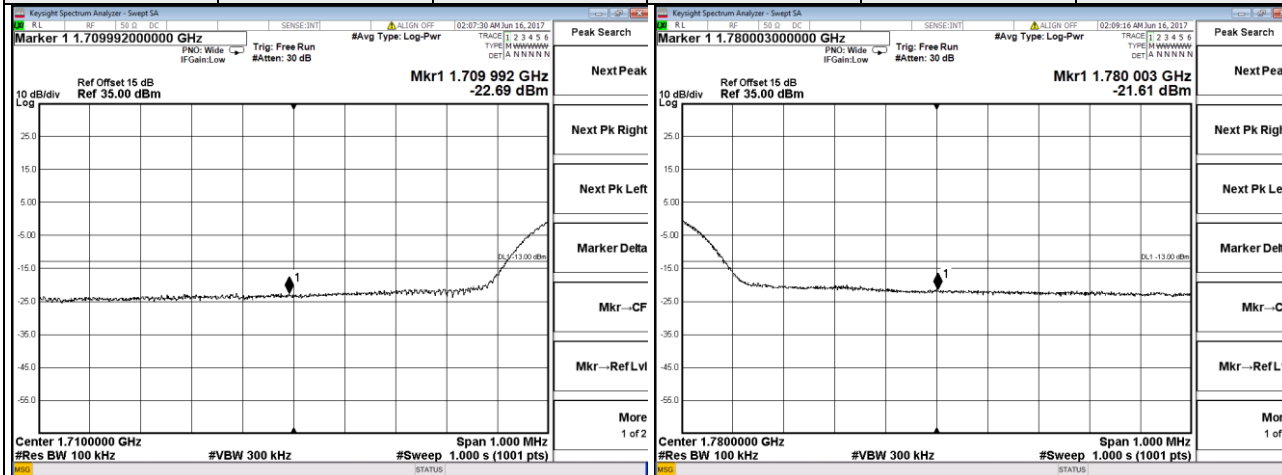
LTE Band 66

Channel Bandwidth 10MHz

Channel	132021	1 RB	Channel	132623	1 RB
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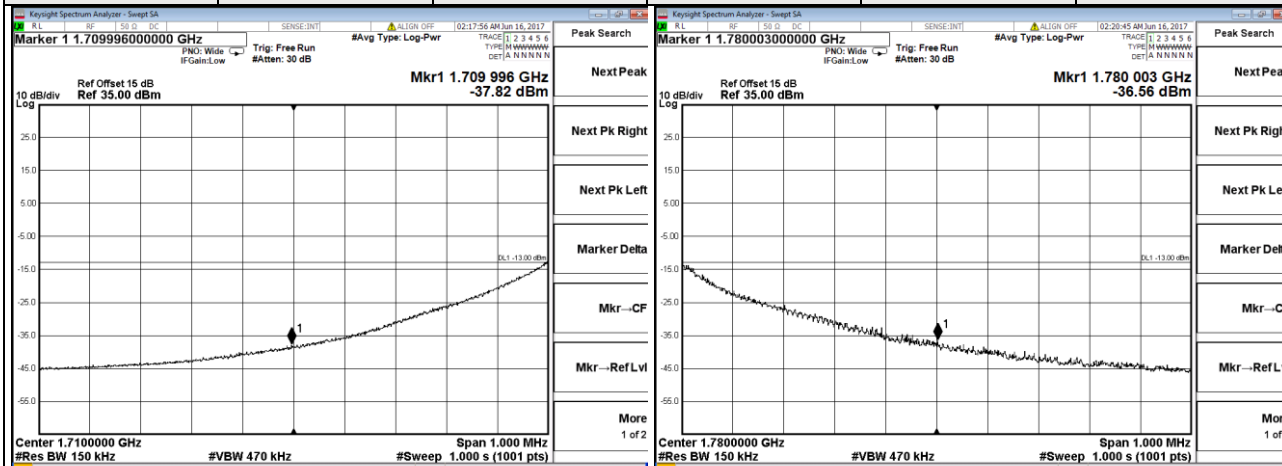
Channel	132021	50 RB	Channel	132623	50 RB
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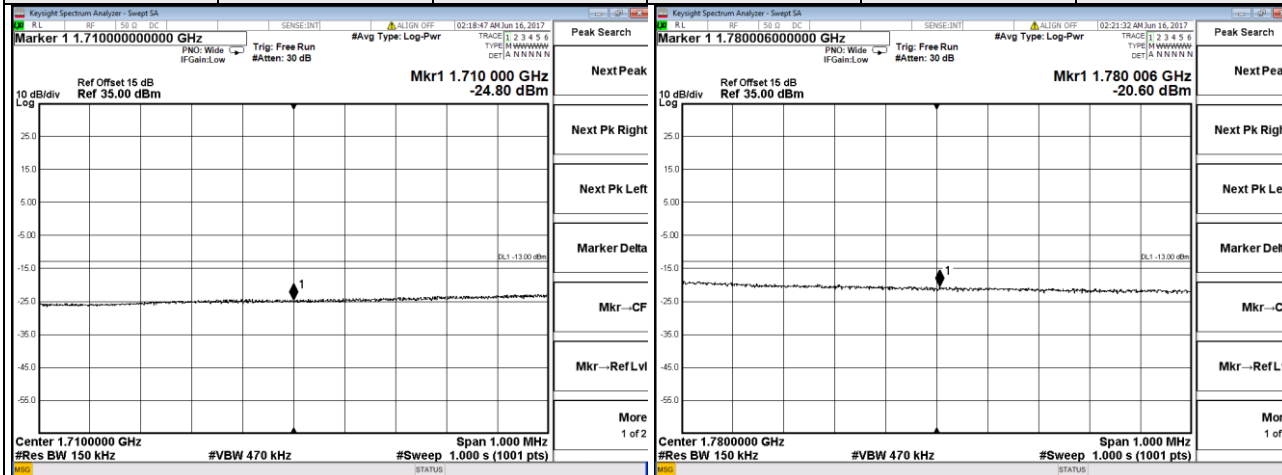
LTE Band 66

Channel Bandwidth 15MHz

Channel	132046	1 RB	Channel	132598	1 RB
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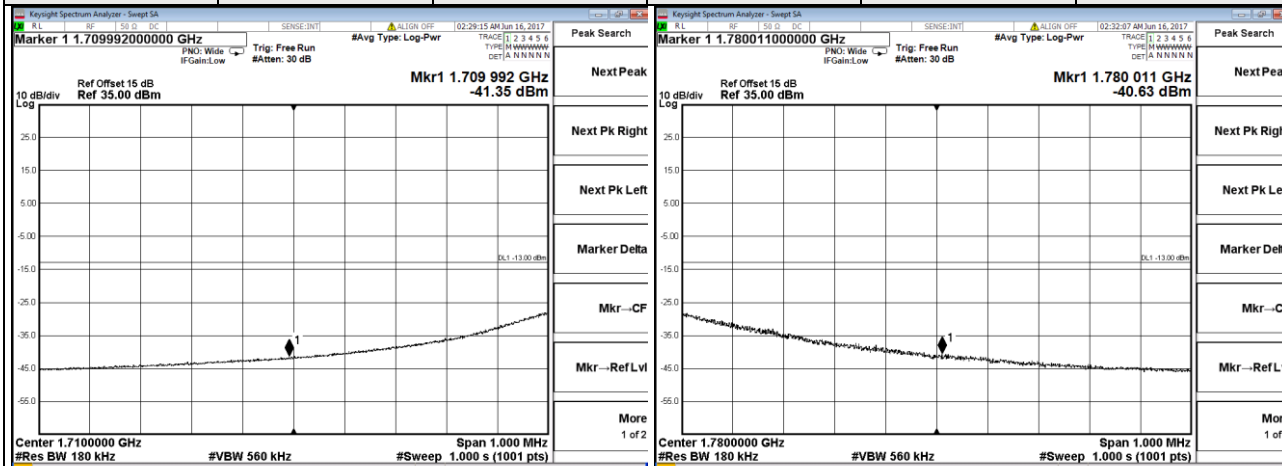
Channel	132046	75 RB	Channel	132598	75 RB
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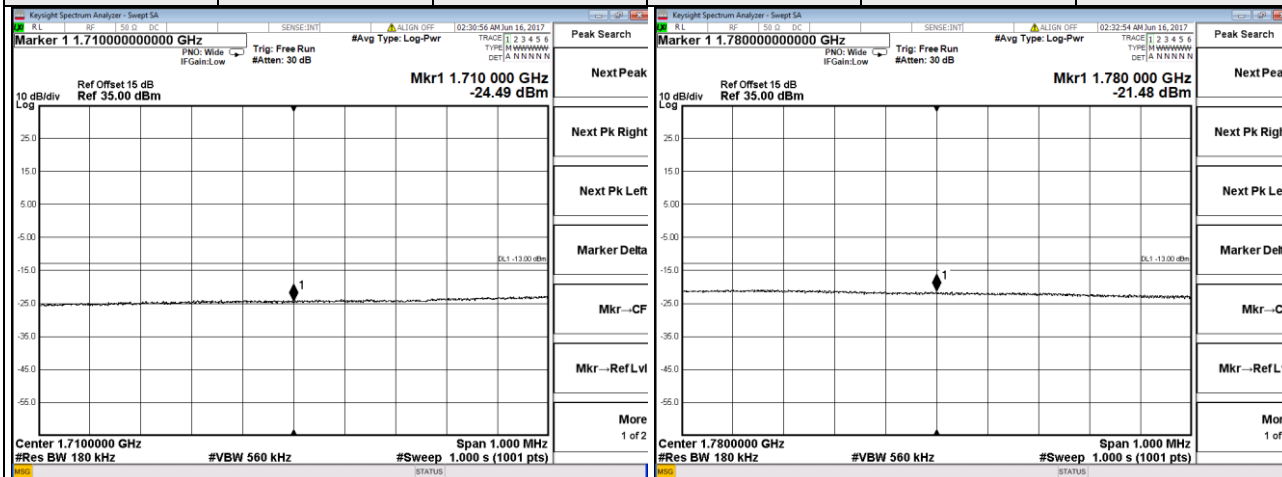
LTE Band 66

Channel Bandwidth 20MHz

Channel	132071	1 RB	Channel	132573	1 RB
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Channel	132071	100 RB	Channel	132573	100 RB
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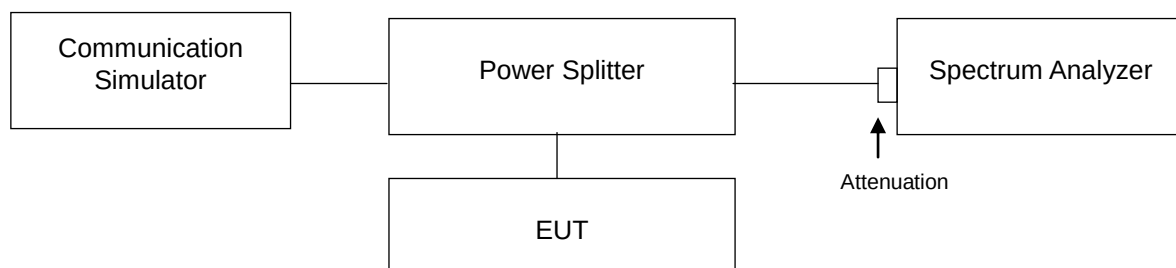


4.5 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.5.2 Test Setup

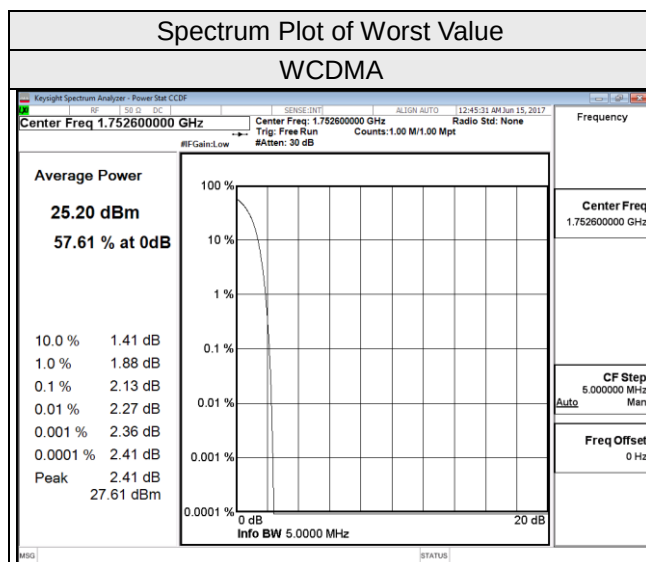


4.5.3 Test Procedures

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.5.4 Test Results (Subcontract Item)

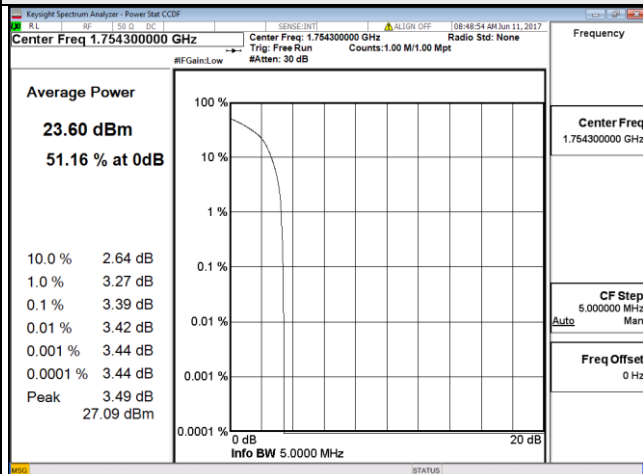
Channel	Freq. (MHz)	Peak to Average Ratio (dB)
		WCDMA BAND4
1312	1712.4	1.91
1413	1732.6	1.89
1513	1752.6	2.13



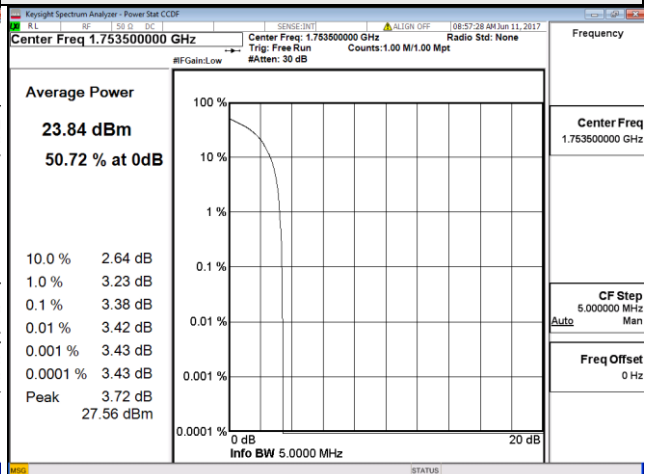
LTE Band 4							
Channel Bandwidth 1.4MHz				Channel Bandwidth 3MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19957	1710.7	1.85	2.51	19965	1711.5	1.73	2.23
20175	1732.5	2.02	2.64	20175	1732.5	1.89	2.50
20393	1754.3	2.65	3.39	20385	1753.5	2.69	3.38
Channel Bandwidth 5MHz				Channel Bandwidth 10MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	1.74	2.32	20000	1715	1.59	2.12
20175	1732.5	1.80	2.32	20175	1732.5	1.86	2.45
20375	1752.5	2.90	3.44	20350	1750	2.60	3.26
Channel Bandwidth 15MHz				Channel Bandwidth 20MHz			
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Channel	Frequency (MHz)	Peak To Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	1.66	2.41	20050	1720	1.72	2.28
20175	1732.5	2.57	3.45	20175	1732.5	2.62	3.38
20325	1747.5	2.25	3.17	20300	1745	1.83	2.39

Spectrum Plot of Worst Value

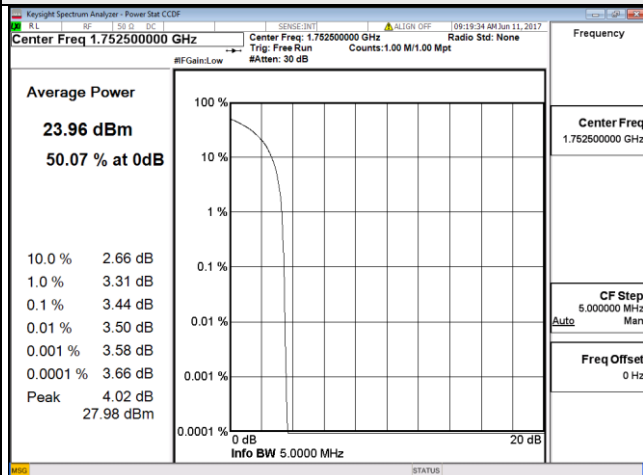
1.4MHz / 16QAM



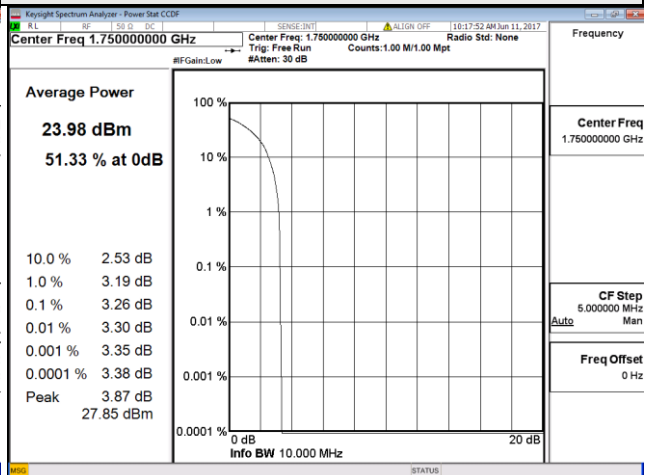
3MHz / 16QAM



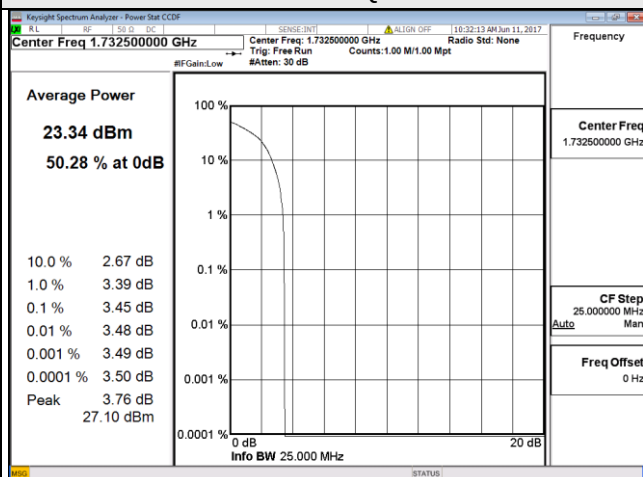
5MHz / 16QAM



10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM

