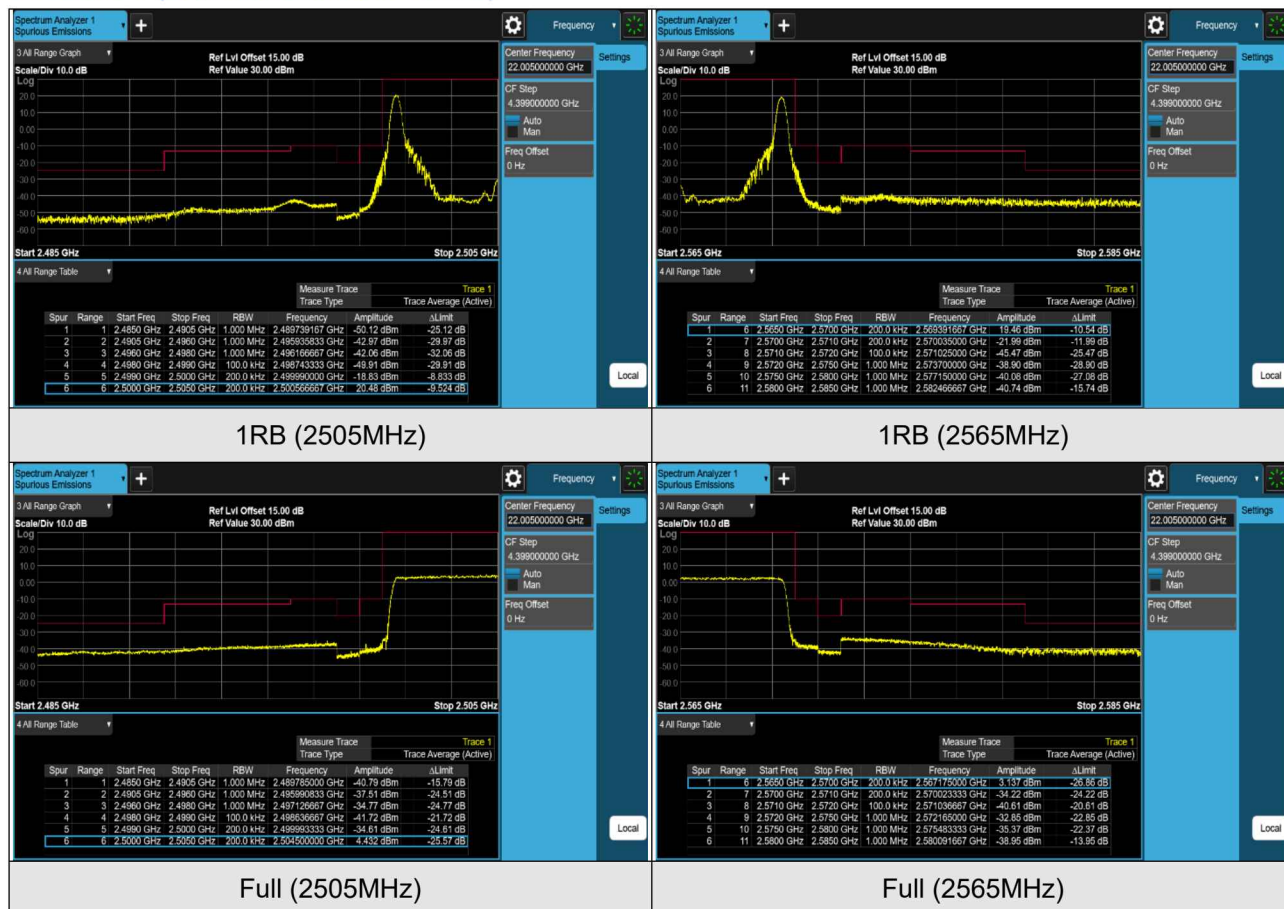
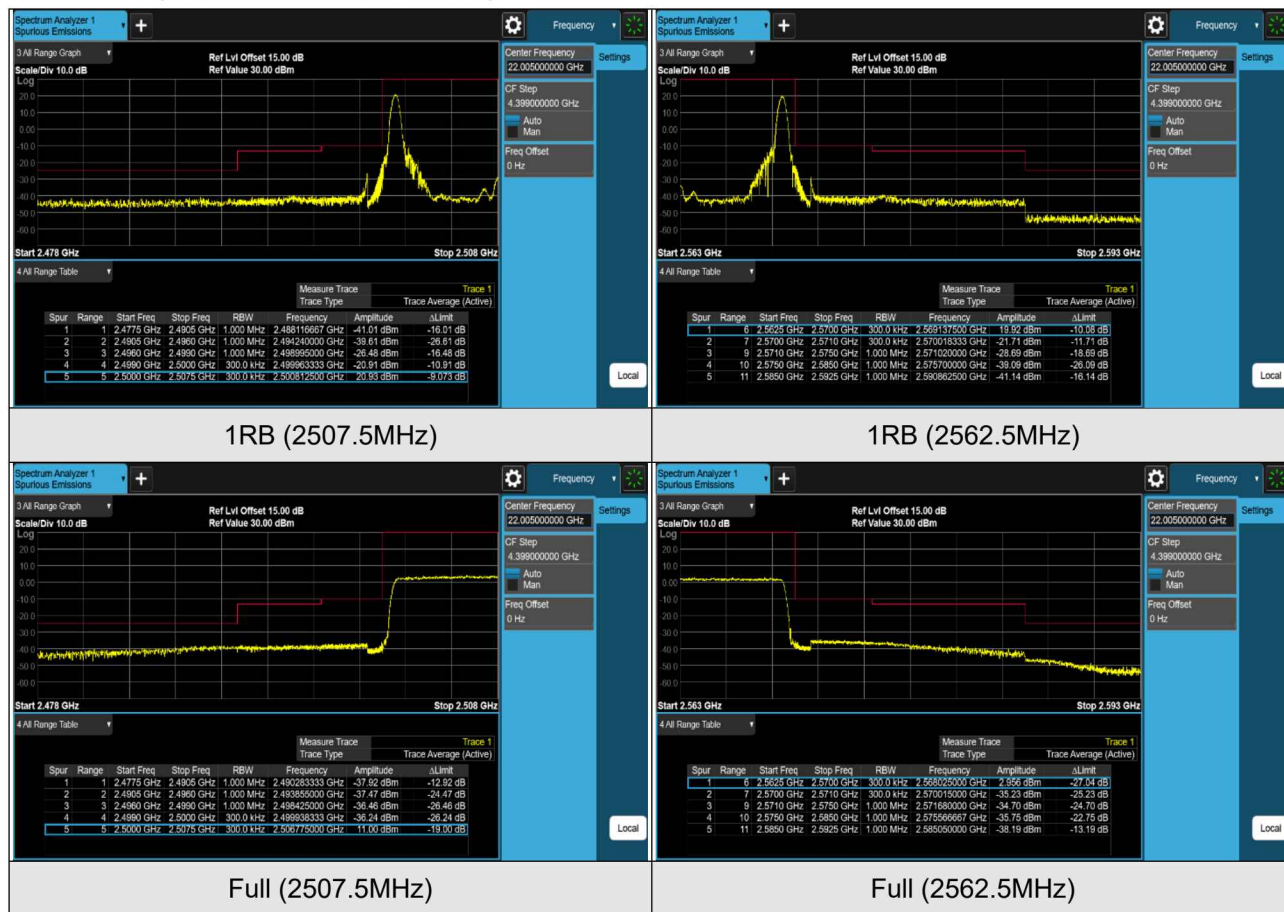


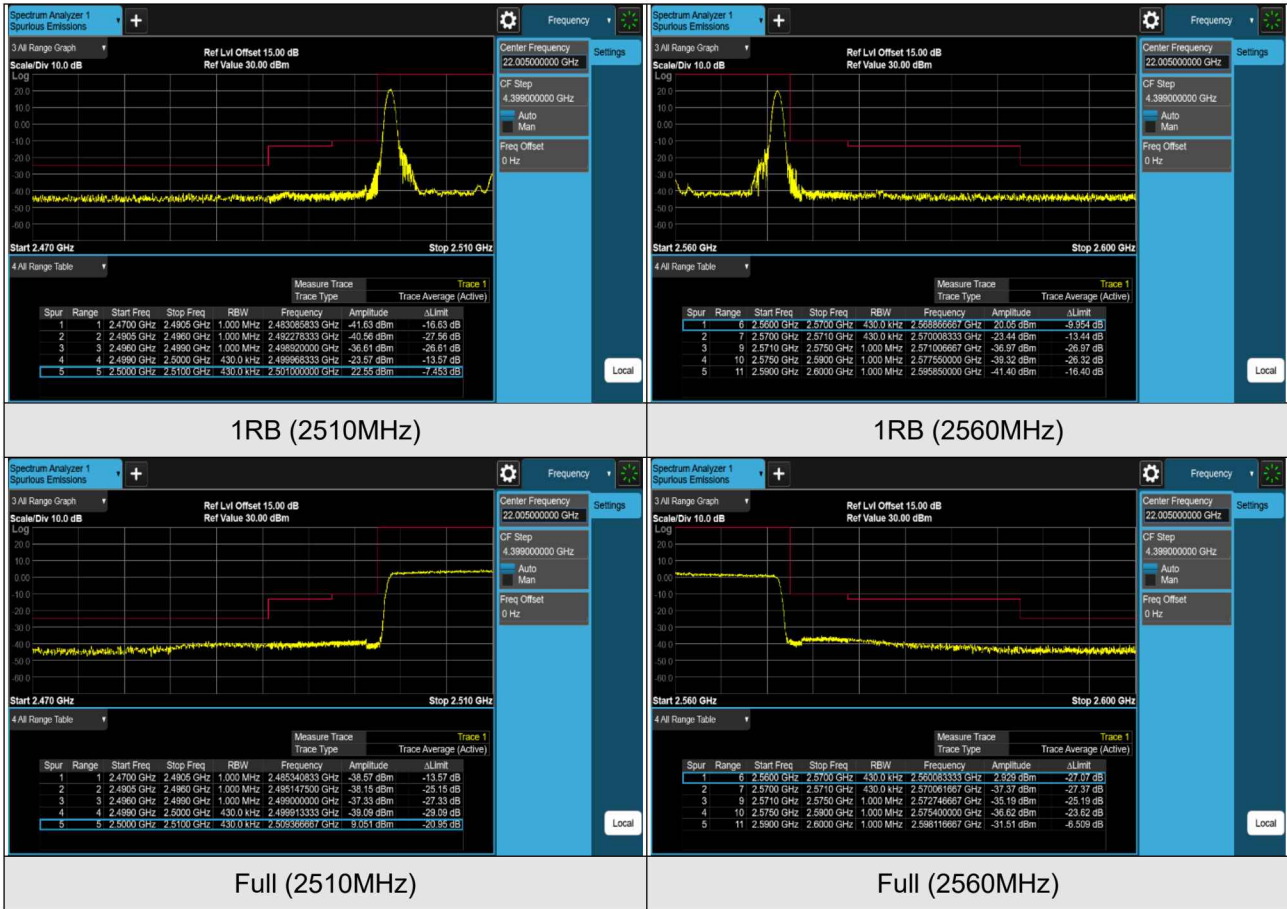
LTE Band 7 (Channel Bandwidth 10MHz)



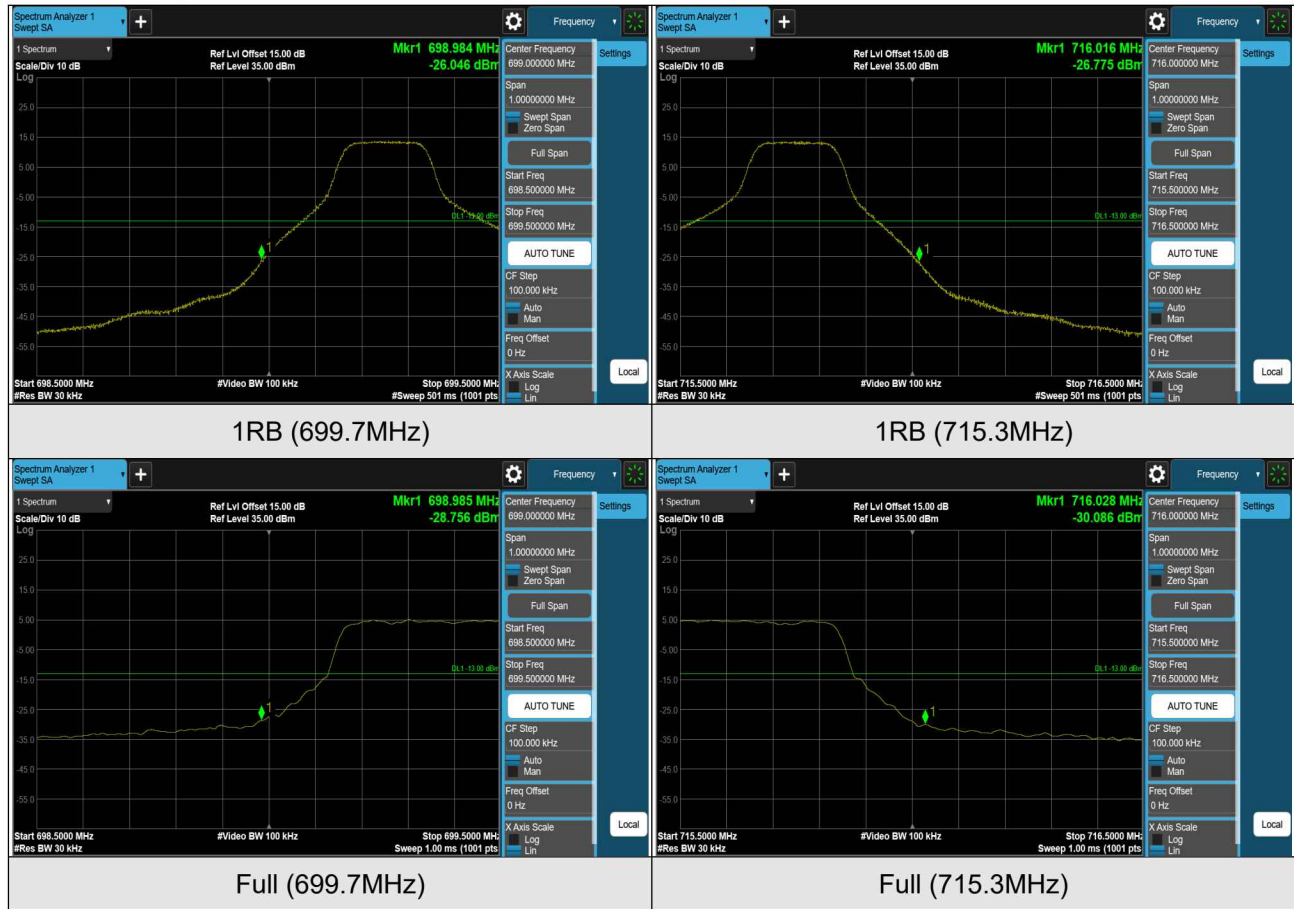
LTE Band 7 (Channel Bandwidth 15MHz)



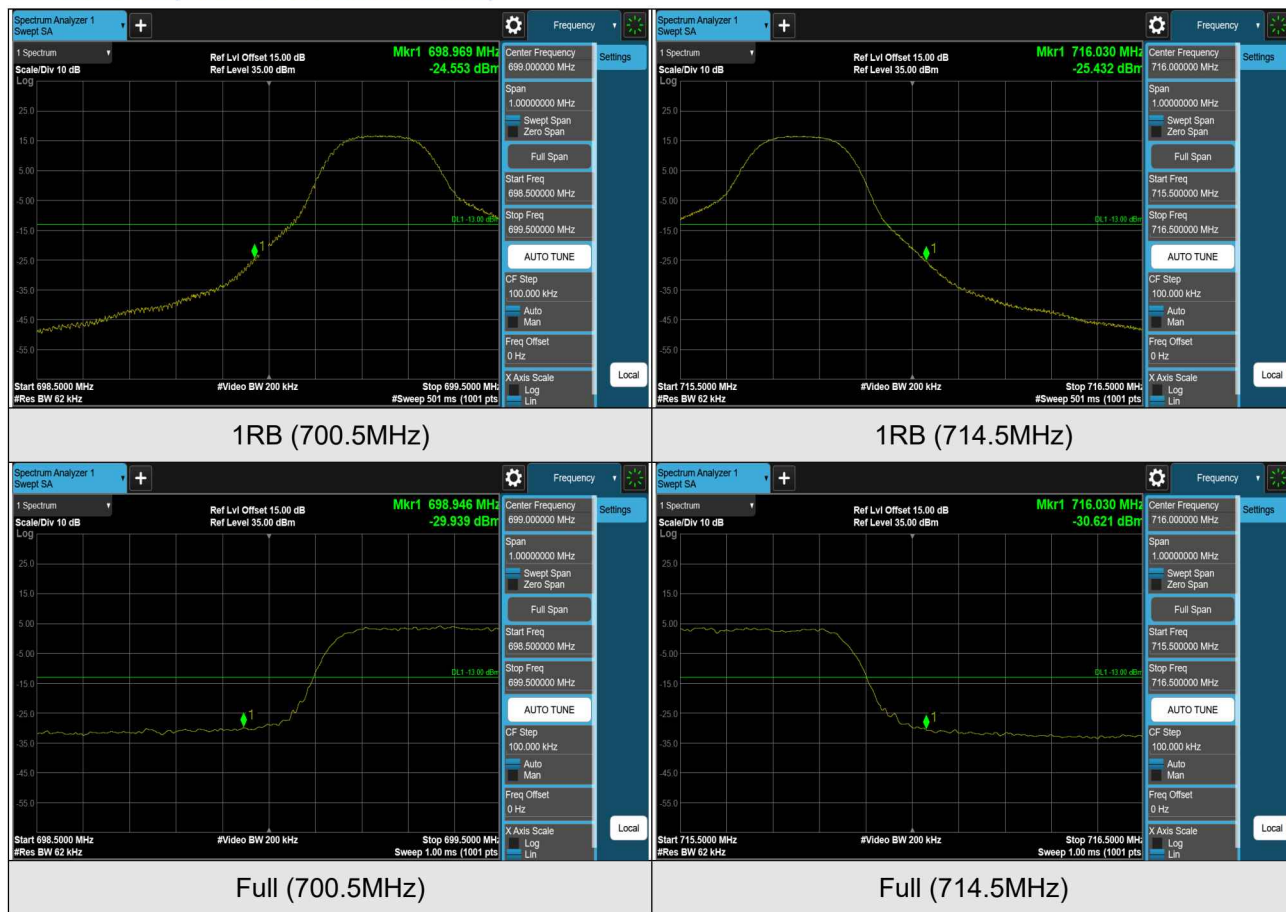
LTE Band 7 (Channel Bandwidth 20MHz)



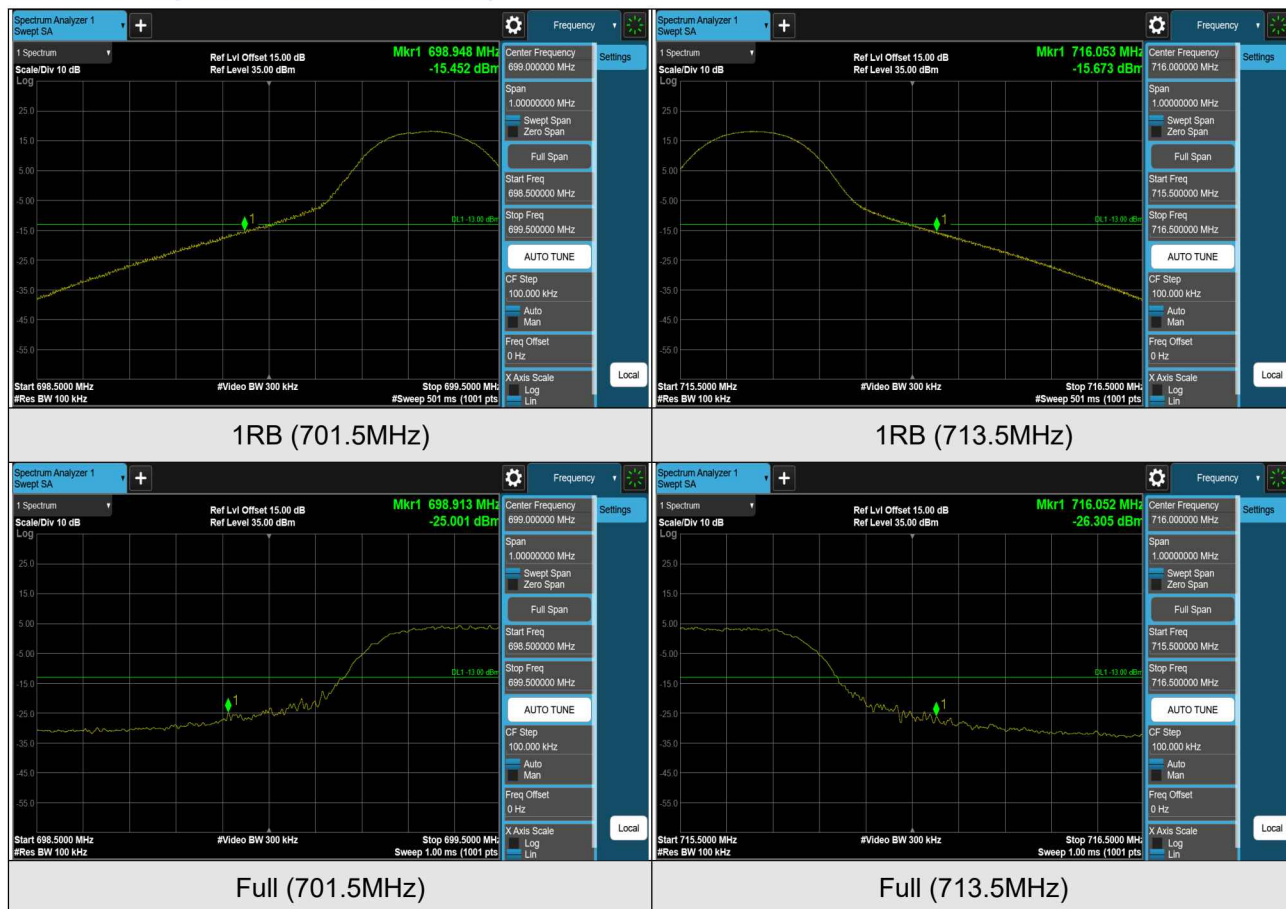
LTE Band 12 (Channel Bandwidth 1.4MHz)



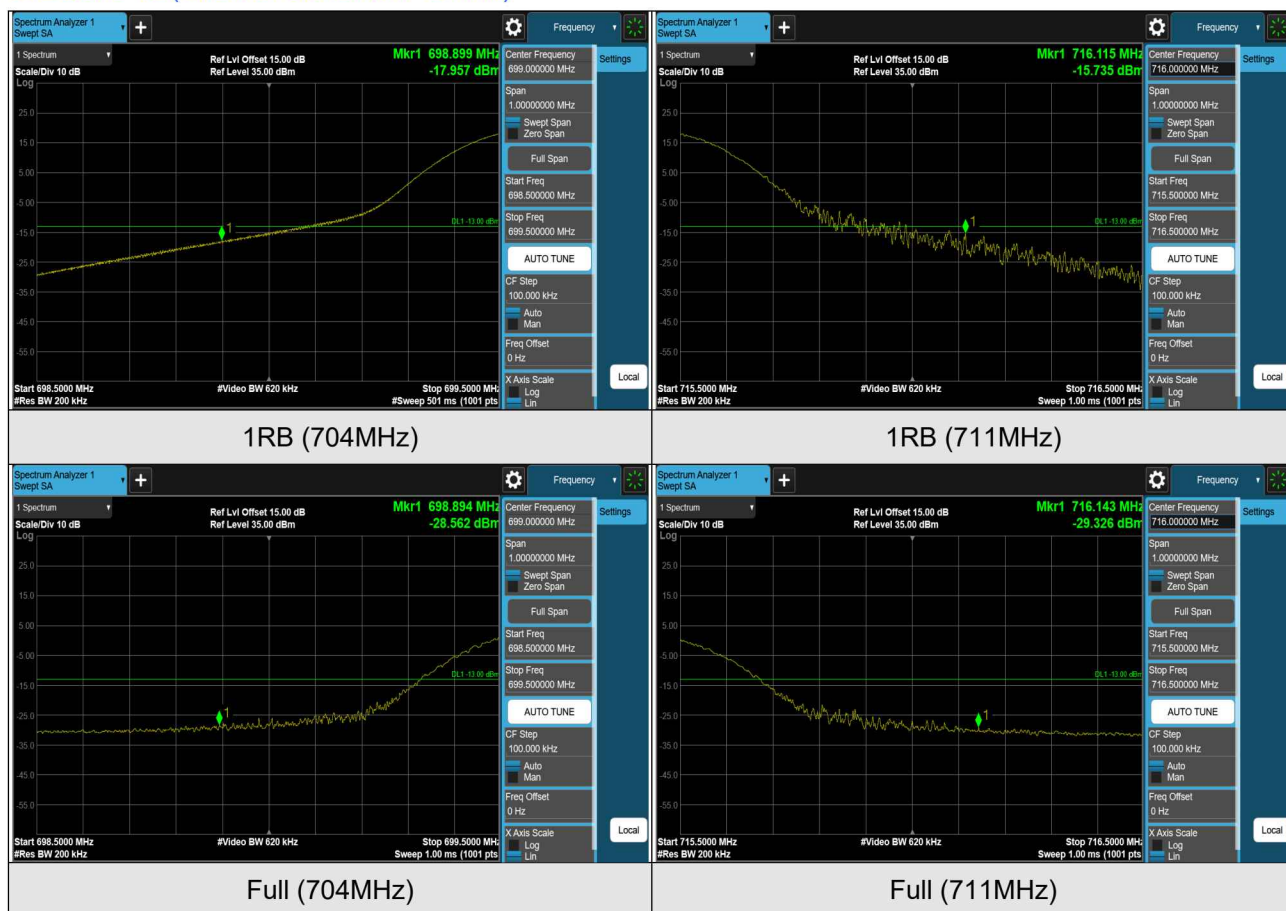
LTE Band 12 (Channel Bandwidth 3MHz)



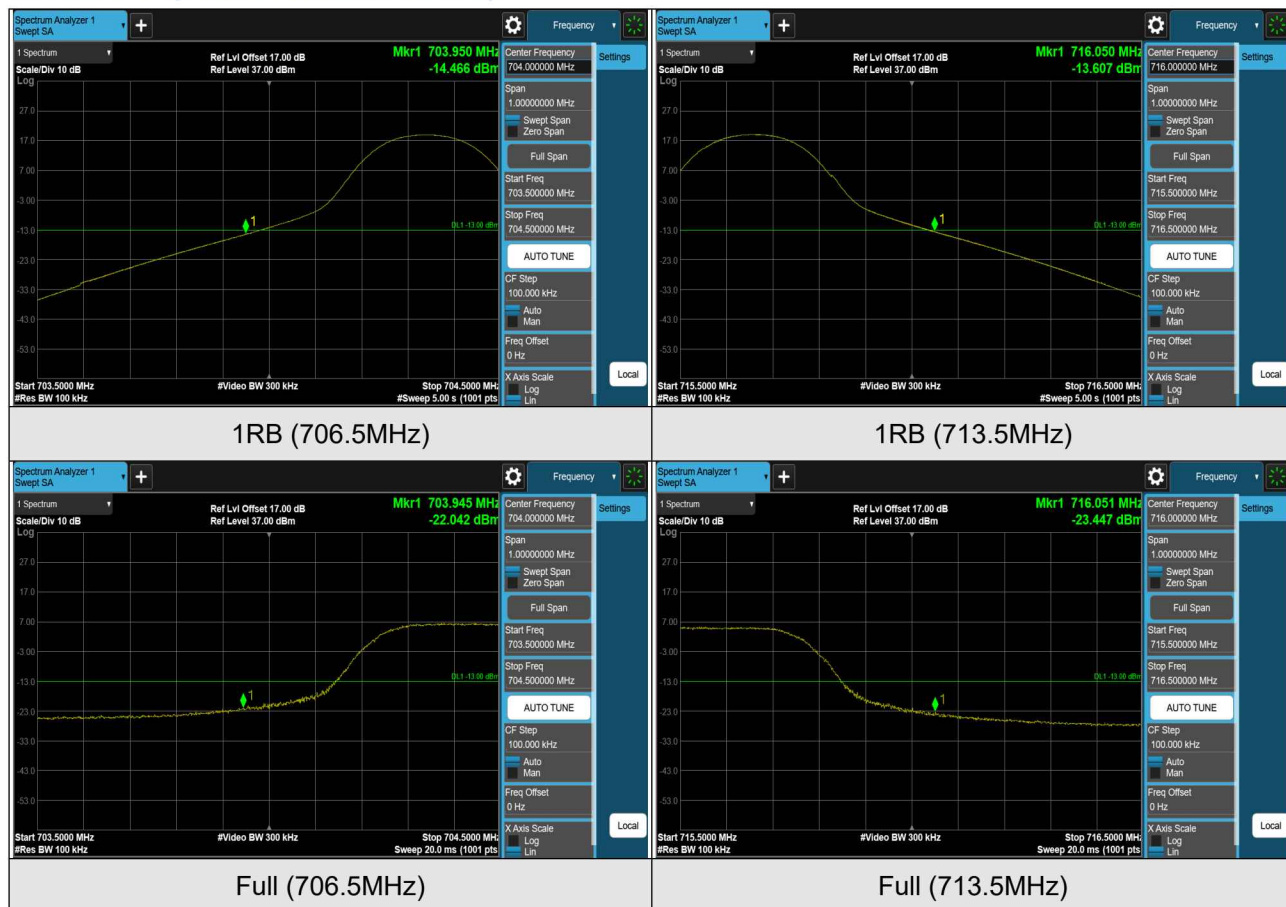
LTE Band 12 (Channel Bandwidth 5MHz)



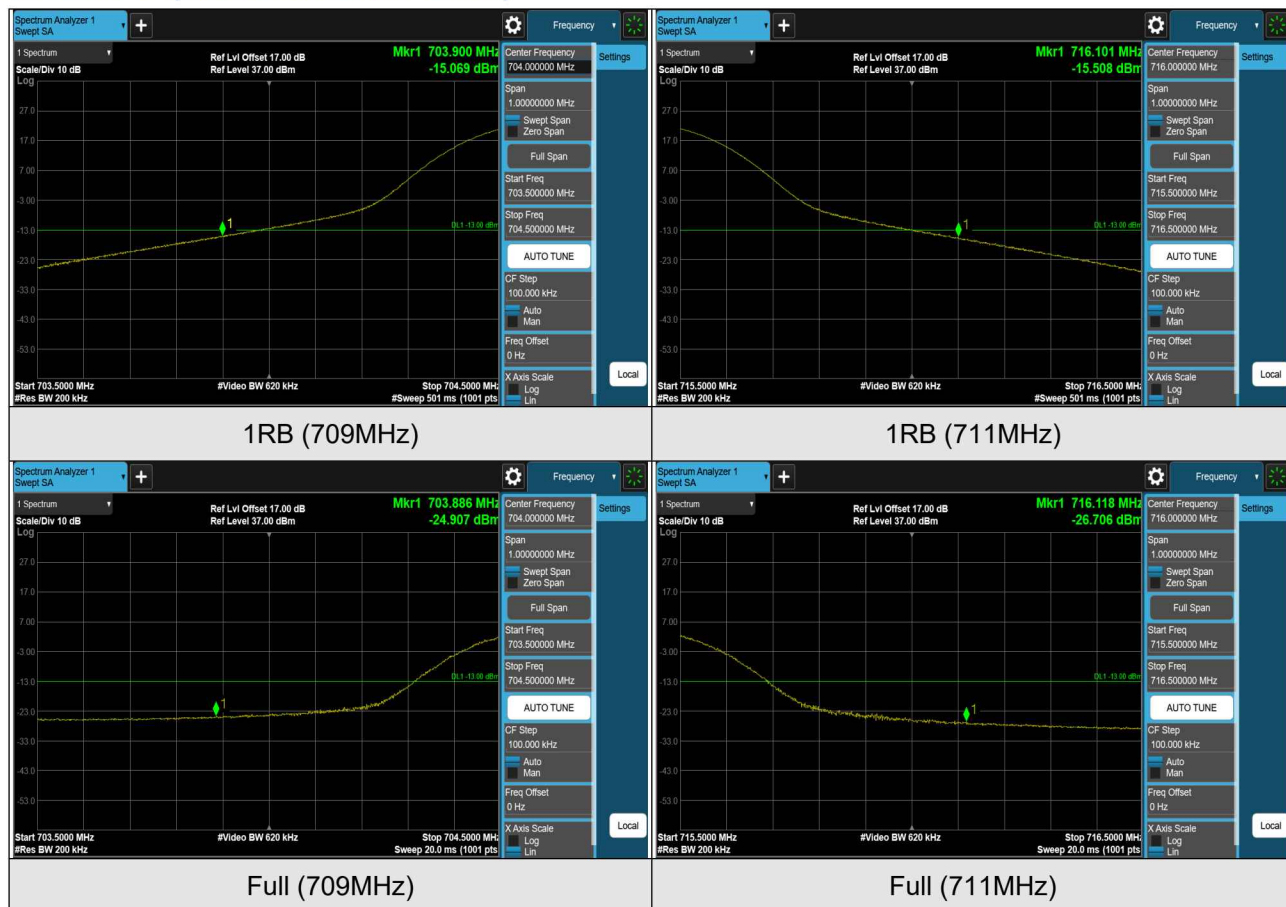
LTE Band 12 (Channel Bandwidth 10MHz)



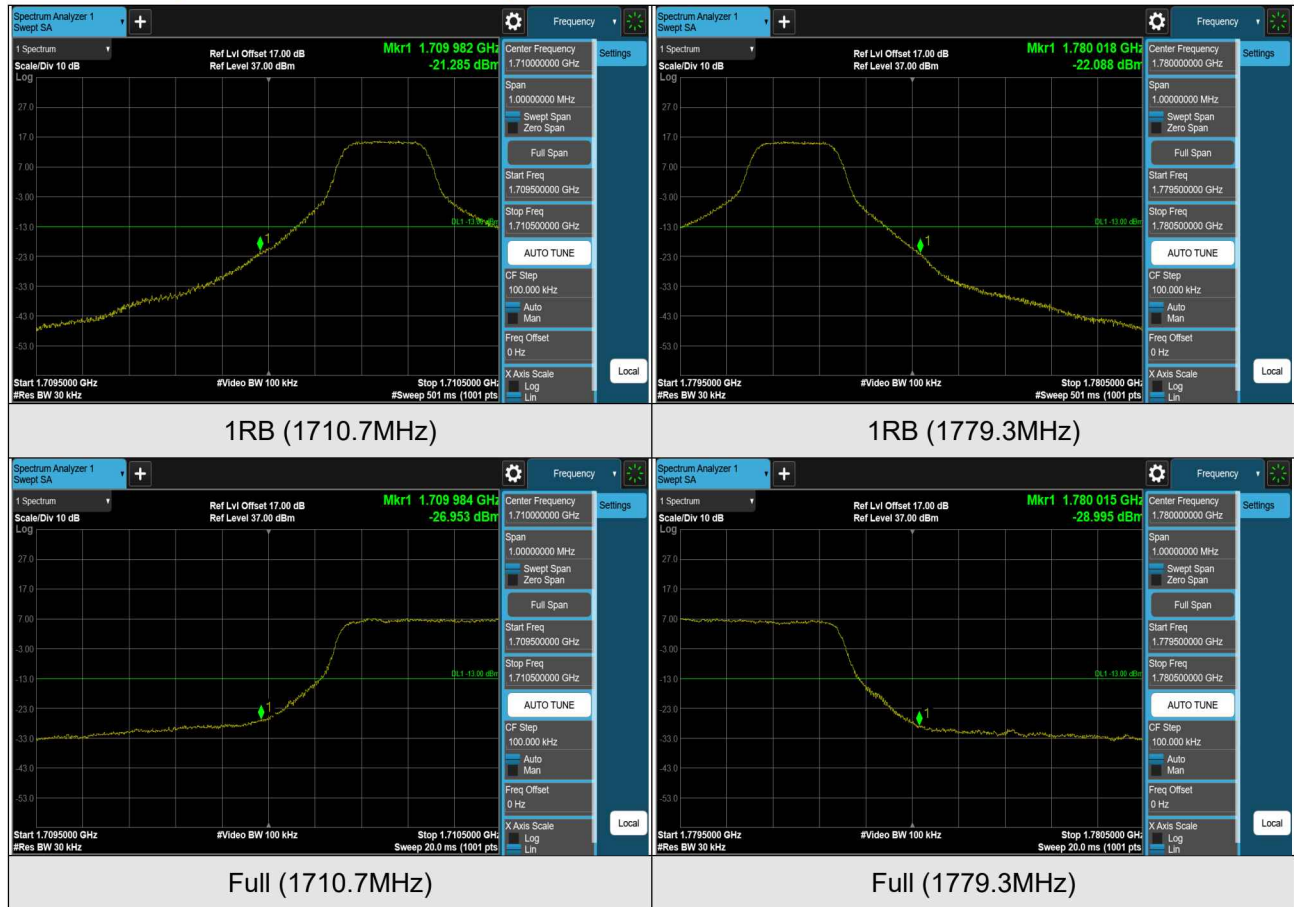
LTE Band 17 (Channel Bandwidth 5MHz)



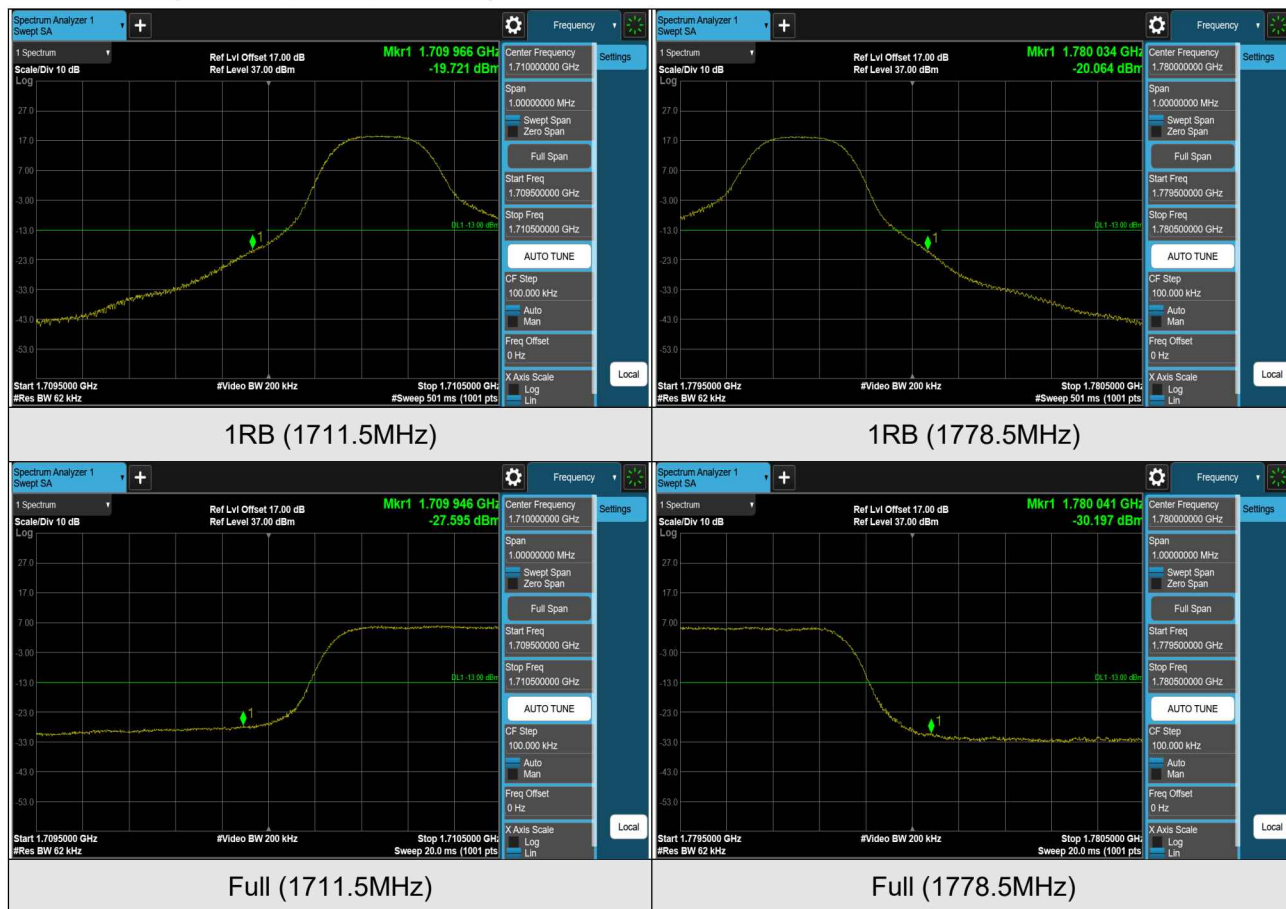
LTE Band 17 (Channel Bandwidth 10MHz)



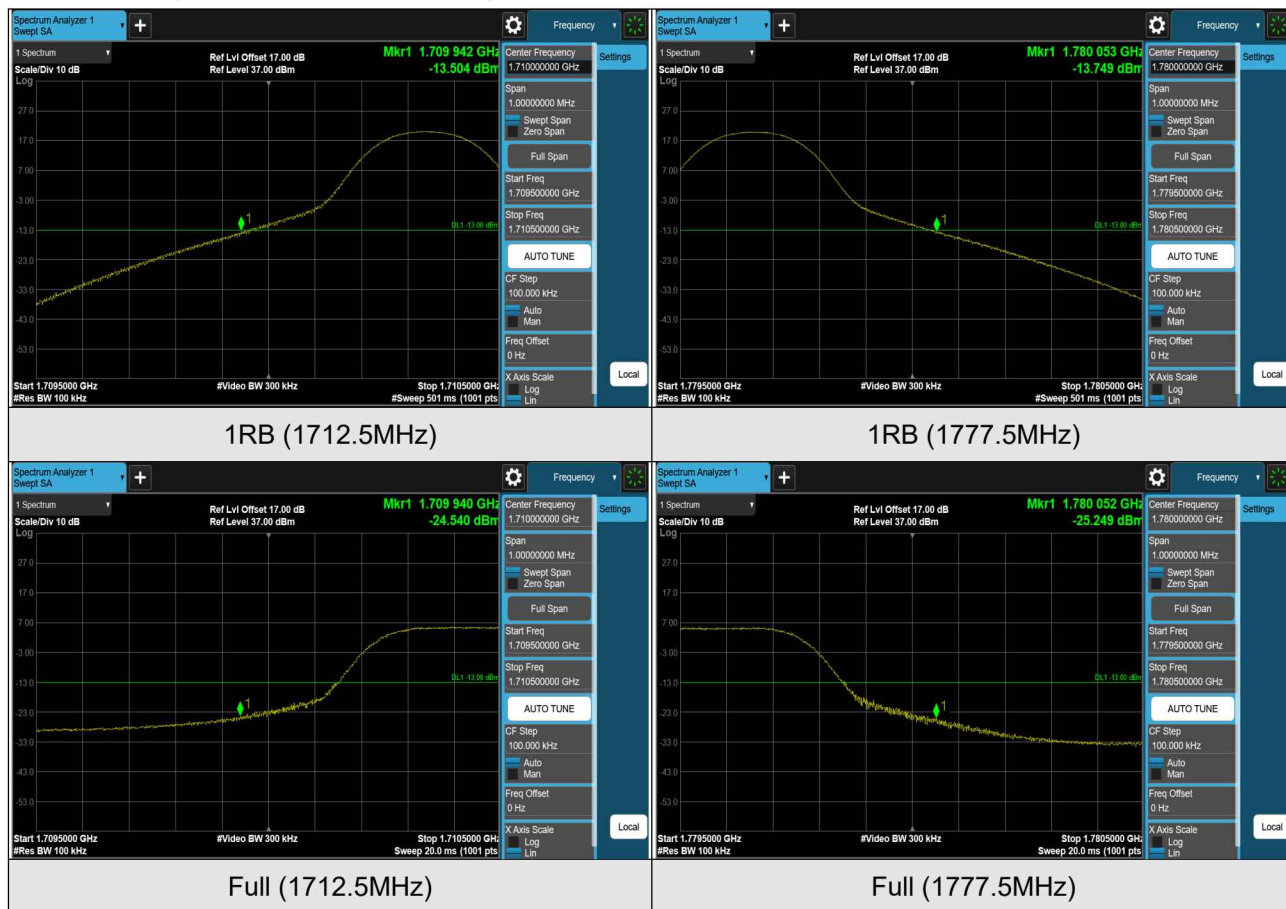
LTE Band 66 (Channel Bandwidth 1.4MHz)



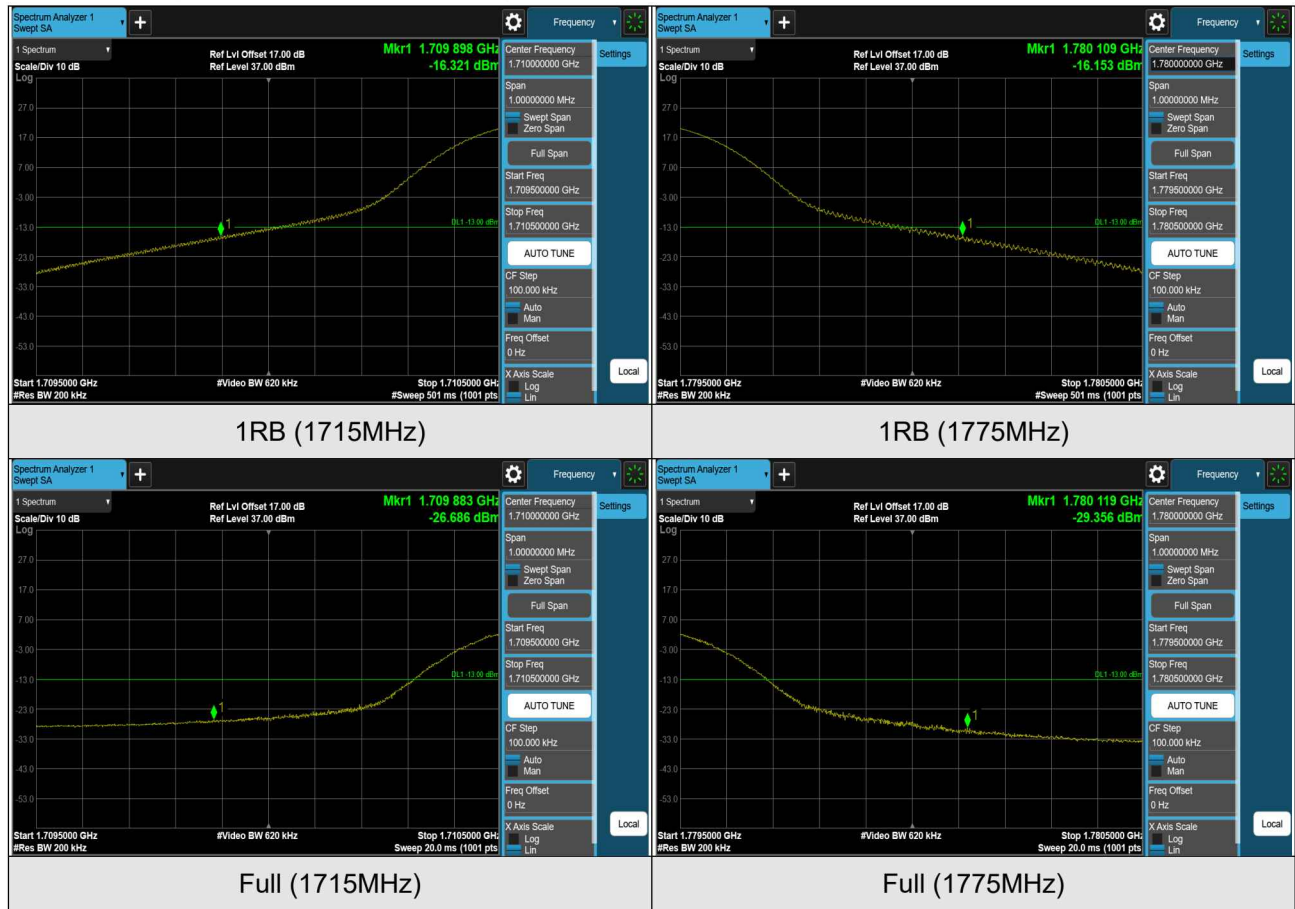
LTE Band 66 (Channel Bandwidth 3MHz)



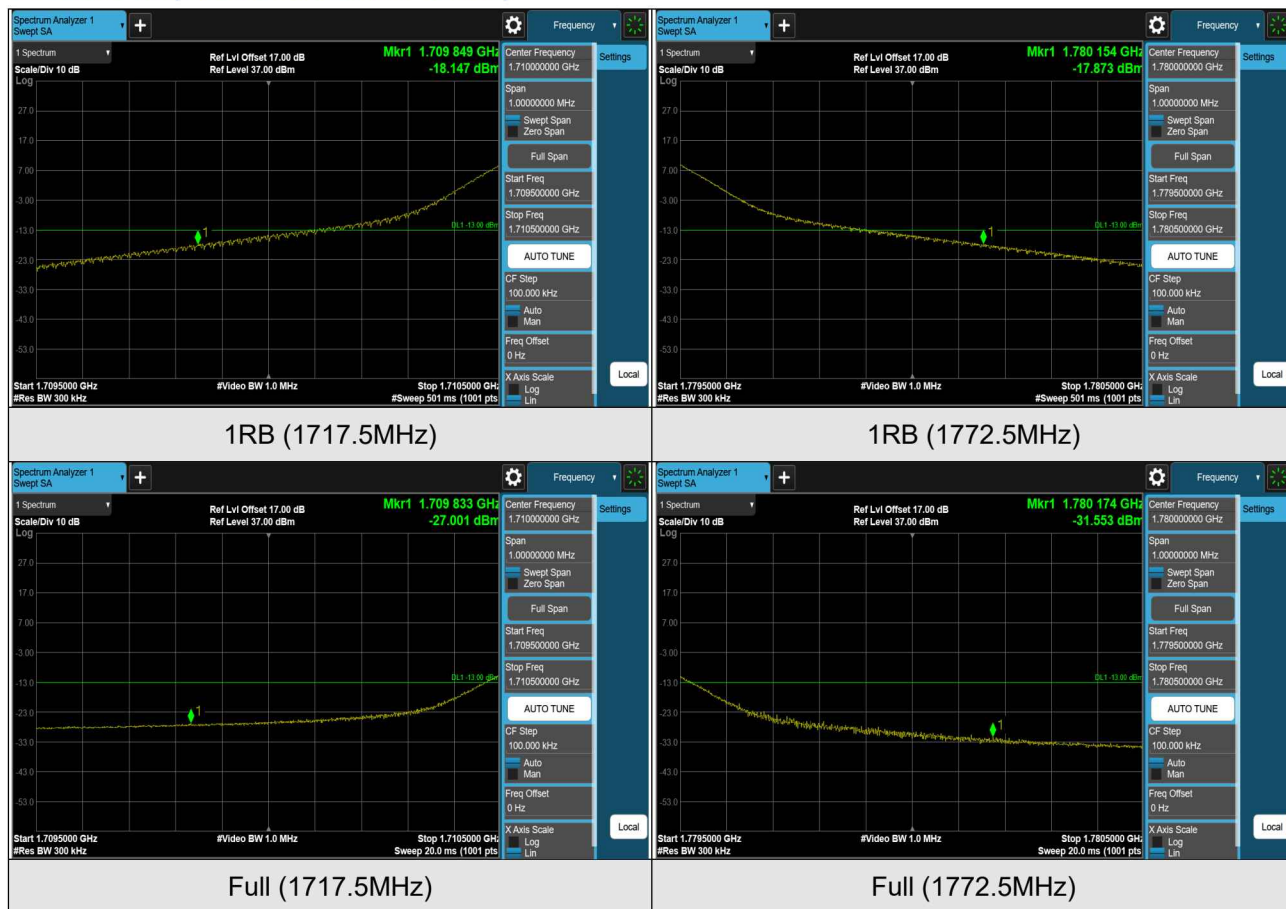
LTE Band 66 (Channel Bandwidth 5MHz)



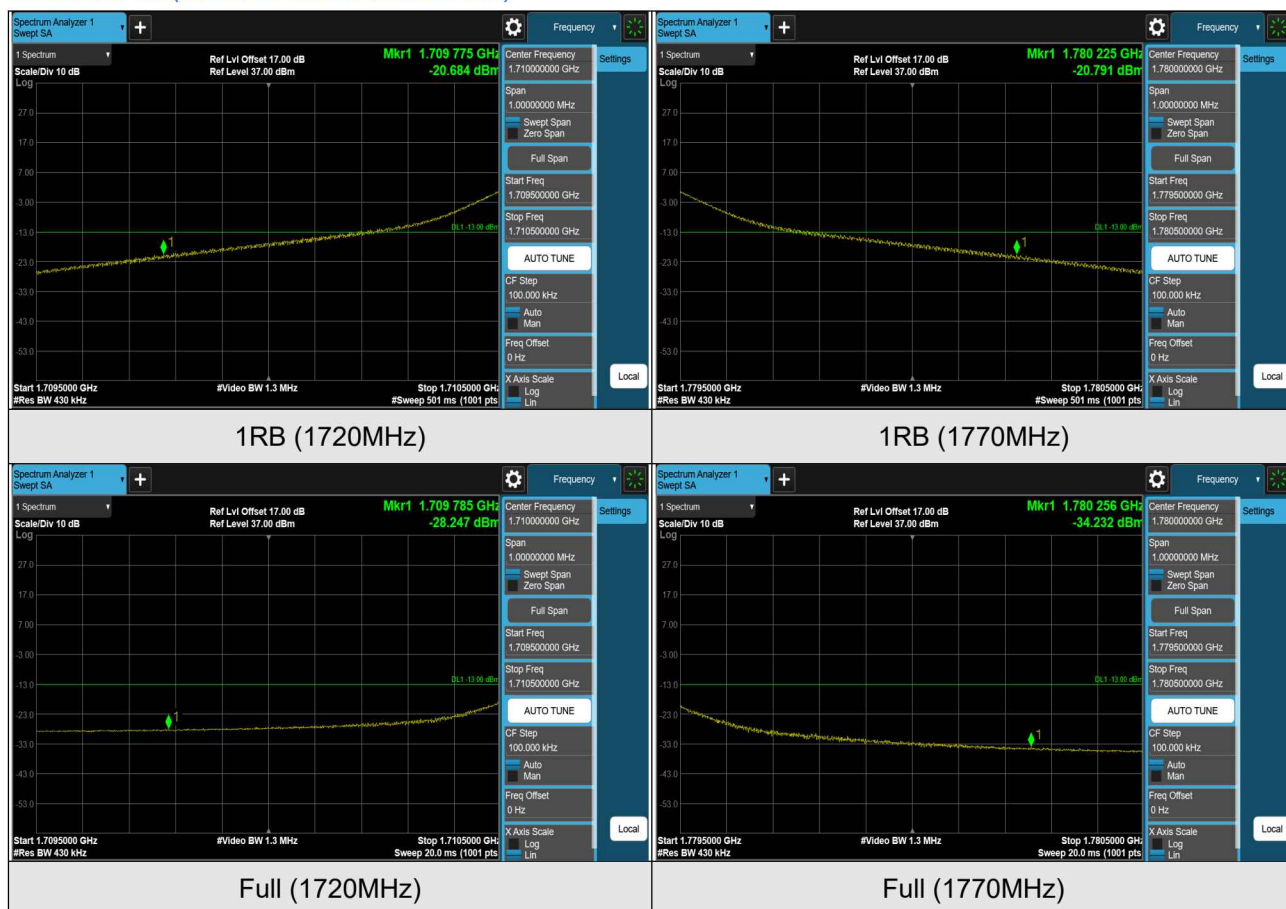
LTE Band 66 (Channel Bandwidth 10MHz)



LTE Band 66 (Channel Bandwidth 15MHz)



LTE Band 66 (Channel Bandwidth 20MHz)

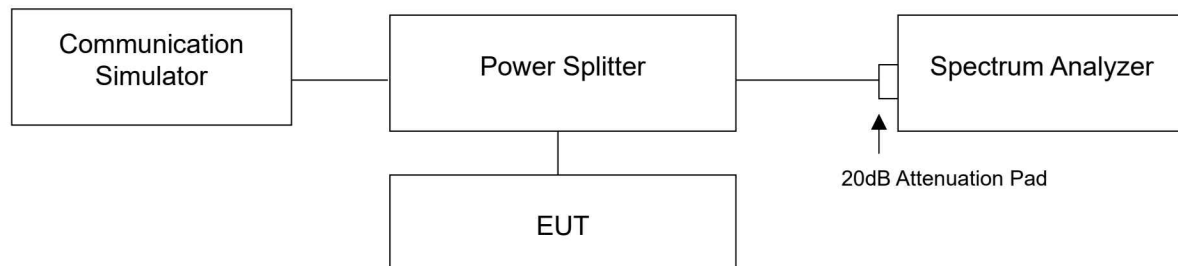


4.6 Peak to Average Ratio

4.6.1 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

4.6.2 Test Setup



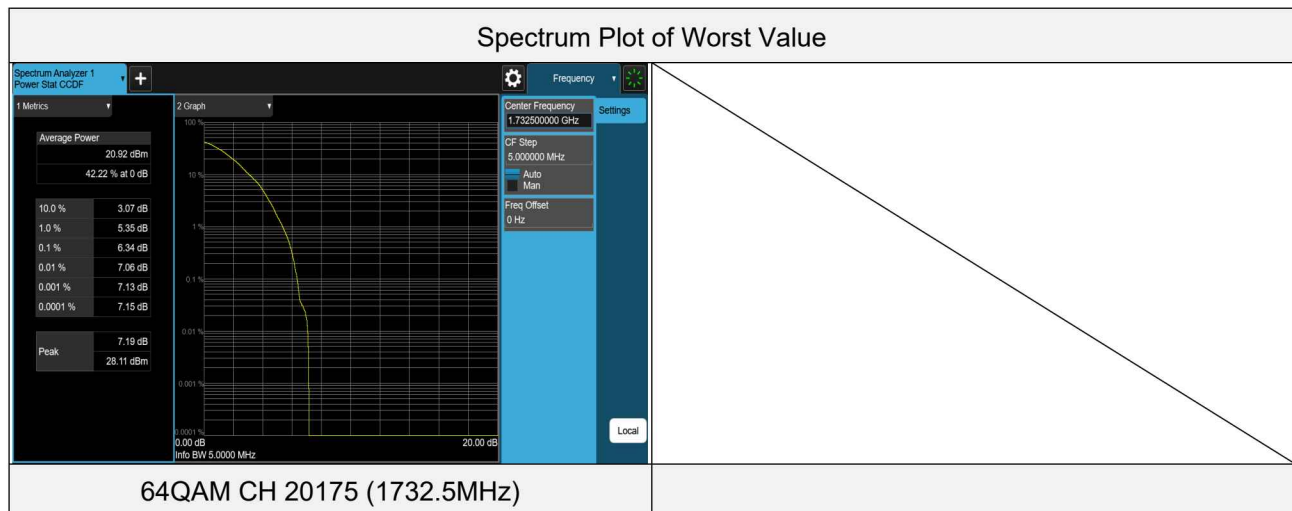
4.6.3 Test Procedures

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

4.6.4 Test Results

LTE Band 4 (Channel Bandwidth 1.4MHz)

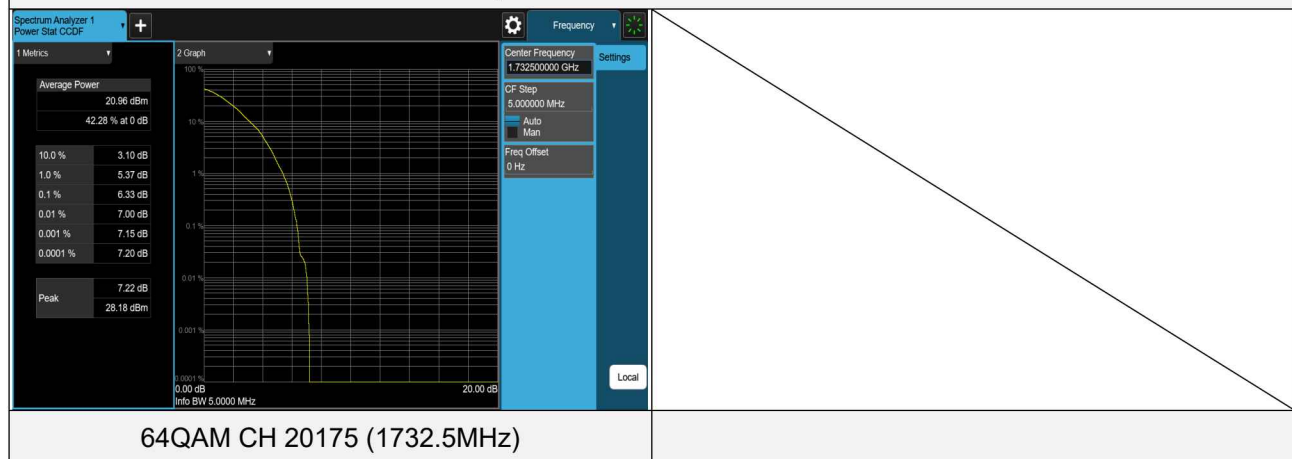
Test Condition	Channel	Frequency (MHz)	Measure. Value (dB)	Limit (dB)	Result
QPSK	19957	1710.7	4.76	13	Pass
QPSK	20175	1732.5	4.75	13	Pass
QPSK	20393	1754.3	4.71	13	Pass
16QAM	19957	1710.7	5.77	13	Pass
16QAM	20175	1732.5	5.81	13	Pass
16QAM	20393	1754.3	5.71	13	Pass
64QAM	19957	1710.7	6.26	13	Pass
64QAM	20175	1732.5	6.34	13	Pass
64QAM	20393	1754.3	6.18	13	Pass



LTE Band 4 (Channel Bandwidth 3MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value (dB)	Limit (dB)	Result
QPSK	19965	1711.5	4.69	13	Pass
QPSK	20175	1732.5	4.75	13	Pass
QPSK	20385	1753.5	4.60	13	Pass
16QAM	19965	1711.5	5.69	13	Pass
16QAM	20175	1732.5	5.80	13	Pass
16QAM	20385	1753.5	5.65	13	Pass
64QAM	19965	1711.5	6.23	13	Pass
64QAM	20175	1732.5	6.33	13	Pass
64QAM	20385	1753.5	6.07	13	Pass

Spectrum Plot of Worst Value



LTE Band 4 (Channel Bandwidth 5MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value (dB)	Limit (dB)	Result
QPSK	19975	1712.5	4.76	13	Pass
QPSK	20175	1732.5	4.88	13	Pass
QPSK	20375	1752.5	4.69	13	Pass
16QAM	19975	1712.5	5.78	13	Pass
16QAM	20175	1732.5	5.95	13	Pass
16QAM	20375	1752.5	5.68	13	Pass
64QAM	19975	1712.5	6.30	13	Pass
64QAM	20175	1732.5	6.32	13	Pass
64QAM	20375	1752.5	6.16	13	Pass

Spectrum Plot of Worst Value

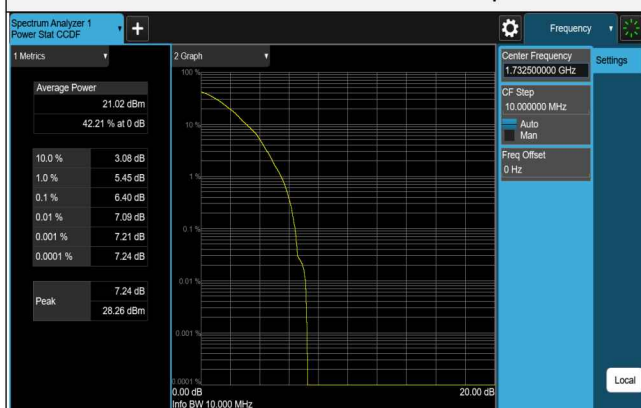


64QAM CH 20175 (1732.5MHz)

LTE Band 4 (Channel Bandwidth 10MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value (dB)	Limit (dB)	Result
QPSK	20000	1715	4.73	13	Pass
QPSK	20175	1732.5	4.86	13	Pass
QPSK	20350	1750	4.56	13	Pass
16QAM	20000	1715	5.69	13	Pass
16QAM	20175	1732.5	5.86	13	Pass
16QAM	20350	1750	5.58	13	Pass
64QAM	20000	1715	6.31	13	Pass
64QAM	20175	1732.5	6.40	13	Pass
64QAM	20350	1750	6.06	13	Pass

Spectrum Plot of Worst Value

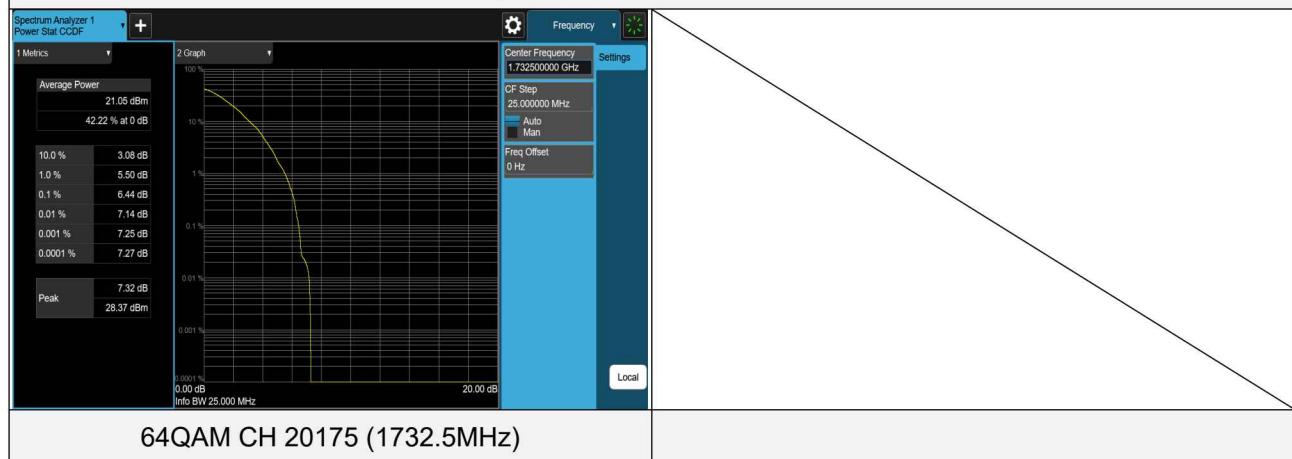


64QAM CH 20175 (1732.5MHz)

LTE Band 4 (Channel Bandwidth 15MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value (dB)	Limit (dB)	Result
QPSK	20025	1717.5	4.77	13	Pass
QPSK	20175	1732.5	5.03	13	Pass
QPSK	20325	1747.5	4.62	13	Pass
16QAM	20025	1717.5	5.71	13	Pass
16QAM	20175	1732.5	5.93	13	Pass
16QAM	20325	1747.5	5.67	13	Pass
64QAM	20025	1717.5	6.19	13	Pass
64QAM	20175	1732.5	6.44	13	Pass
64QAM	20325	1747.5	6.00	13	Pass

Spectrum Plot of Worst Value



LTE Band 4 (Channel Bandwidth 20MHz)

Test Condition	Channel	Frequency (MHz)	Measure. Value (dB)	Limit (dB)	Result
QPSK	20050	1720	4.83	13	Pass
QPSK	20175	1732.5	5.09	13	Pass
QPSK	20300	1745	4.62	13	Pass
16QAM	20050	1720	5.89	13	Pass
16QAM	20175	1732.5	6.00	13	Pass
16QAM	20300	1745	5.70	13	Pass
64QAM	20050	1720	6.34	13	Pass
64QAM	20175	1732.5	6.45	13	Pass
64QAM	20300	1745	6.15	13	Pass

Spectrum Plot of Worst Value

