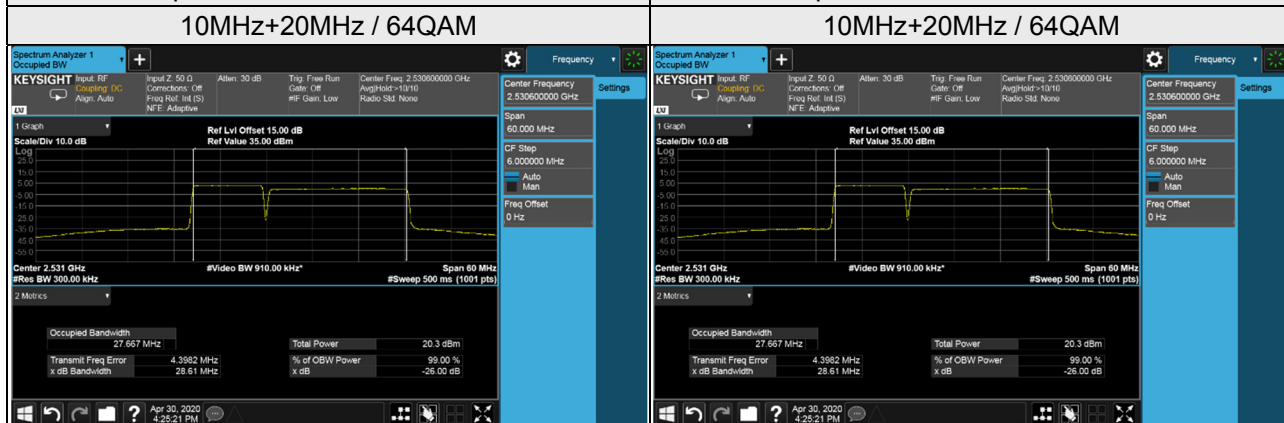


LTE Band 7 (CA 7C), Channel Bandwidth 10MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		64QAM_Full RB	64QAM_Full RB
20805+20949	2505.5+2519.9	27.588	28.57
21006+21150	2525.6+2540.0	27.667	28.61
21206+21350	2545.6+2560.0	27.602	28.57

99% Occupied Bandwidth  
Spectrum Plot of Worst Value

26dB Bandwidth  
Spectrum Plot of Worst Value

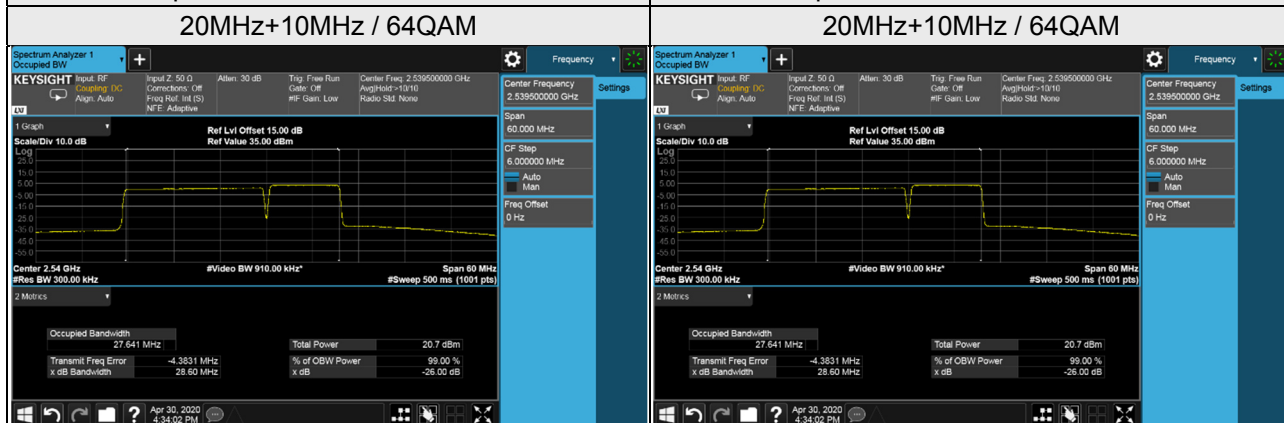


LTE Band 7 (CA 7C), Channel Bandwidth 20MHz+10MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		64QAM_Full RB	64QAM_Full RB
20850+20994	2510.0+2524.4	27.598	28.58
21051+21195	25301.+2544.5	27.641	28.60
21251+21395	2550.1+2564.5	27.591	28.58

99% Occupied Bandwidth  
Spectrum Plot of Worst Value

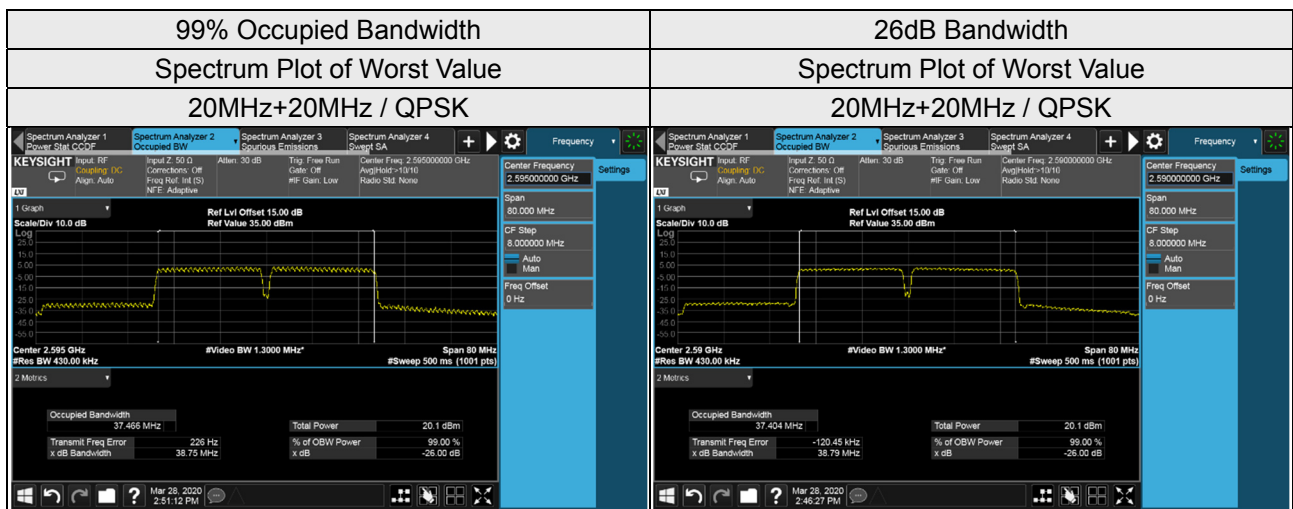
26dB Bandwidth  
Spectrum Plot of Worst Value



LTE Band 38 (CA 38C)

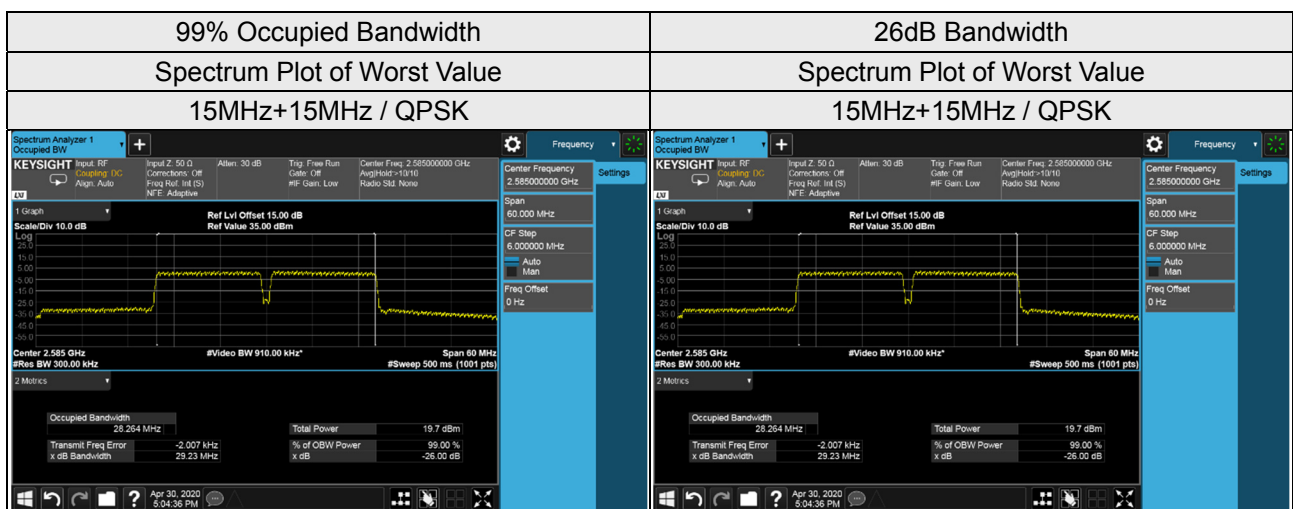
LTE Band 38 (CA 38C), Channel Bandwidth 20MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
37850+38048	2580.0+2599.8	37.404	38.79
37901+38099	2585.1+2604.9	37.466	38.75
37952+38150	2590.2+2610.0	37.431	38.76



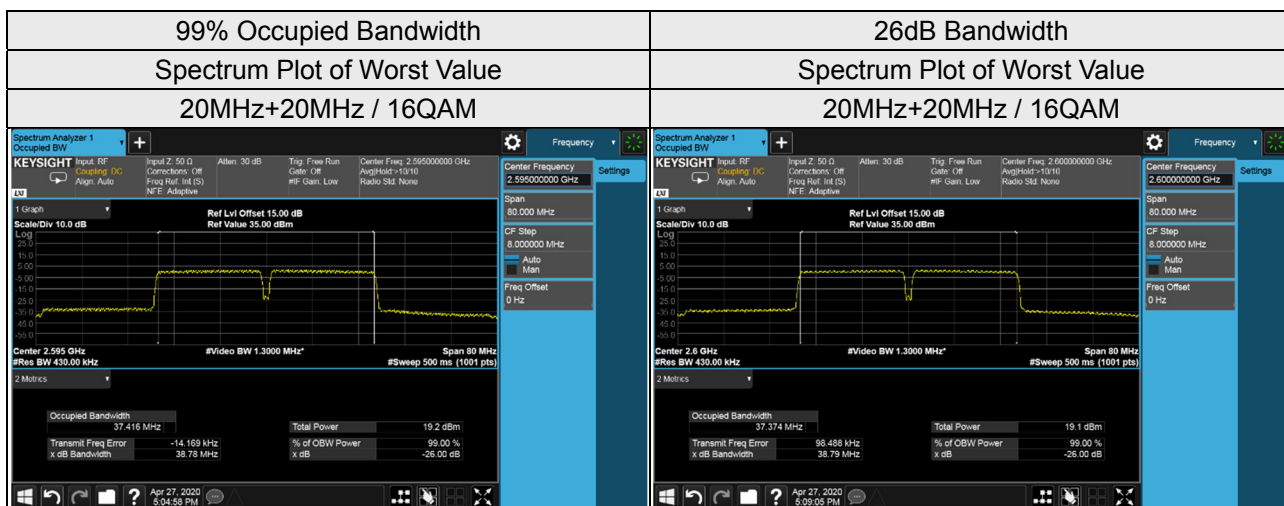
LTE Band 38 (CA 38C), Channel Bandwidth 15MHz+15MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
37825+37975	2577.5+2592.5	28.264	29.23
37925+38075	2587.5+2602.5	28.221	29.23
38025+38175	2597.5+2612.5	28.233	29.23



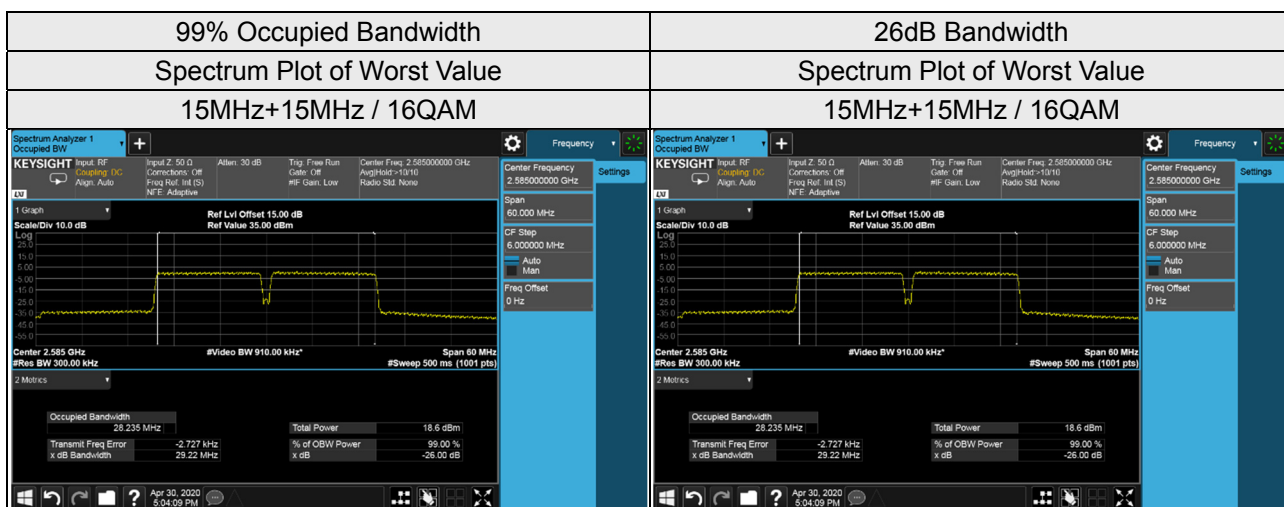
LTE Band 38 (CA 38C), Channel Bandwidth 20MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		16QAM_Full RB	16QAM_Full RB
37850+38048	2580.0+2599.8	37.371	38.78
37901+38099	2585.1+2604.9	37.416	38.78
37952+38150	2590.2+2610.0	37.374	38.79



LTE Band 38 (CA 38C), Channel Bandwidth 15MHz+15MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		16QAM_Full RB	16QAM_Full RB
37825+37975	2577.5+2592.5	28.235	29.22
37925+38075	2587.5+2602.5	28.225	29.16
38025+38175	2597.5+2612.5	28.212	29.17



LTE Band 38 (CA 38C), Channel Bandwidth 20MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		64QAM_Full RB	64QAM_Full RB
37850+38048	2580.0+2599.8	37.448	38.81
37901+38099	2585.1+2604.9	37.388	38.81
37952+38150	2590.2+2610.0	37.406	38.78

99% Occupied Bandwidth  
Spectrum Plot of Worst Value  
20MHz+20MHz / 64QAM



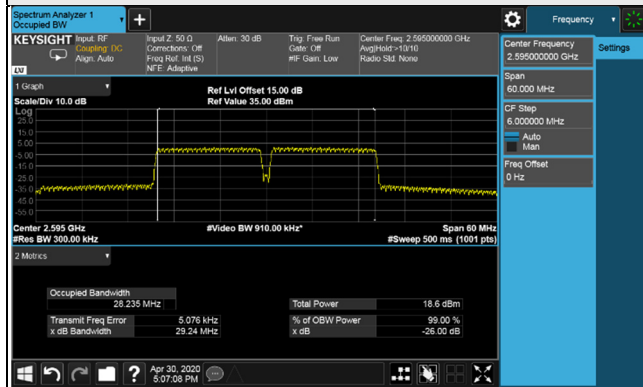
26dB Bandwidth  
Spectrum Plot of Worst Value  
20MHz+20MHz / 64QAM



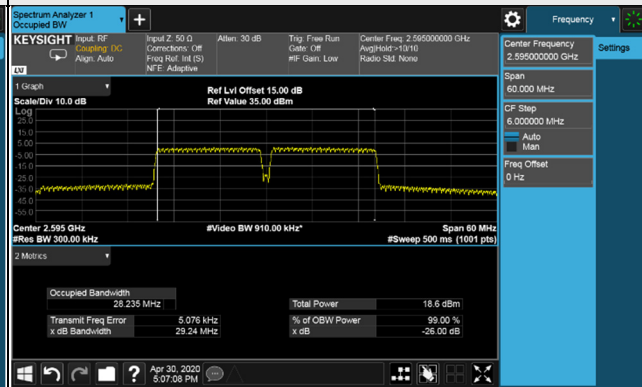
LTE Band 38 (CA 38C), Channel Bandwidth 15MHz+15MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		64QAM_Full RB	64QAM_Full RB
37825+37975	2577.5+2592.5	28.213	29.21
37925+38075	2587.5+2602.5	28.235	29.24
38025+38175	2597.5+2612.5	28.230	29.20

99% Occupied Bandwidth  
Spectrum Plot of Worst Value  
15MHz+15MHz / 64QAM



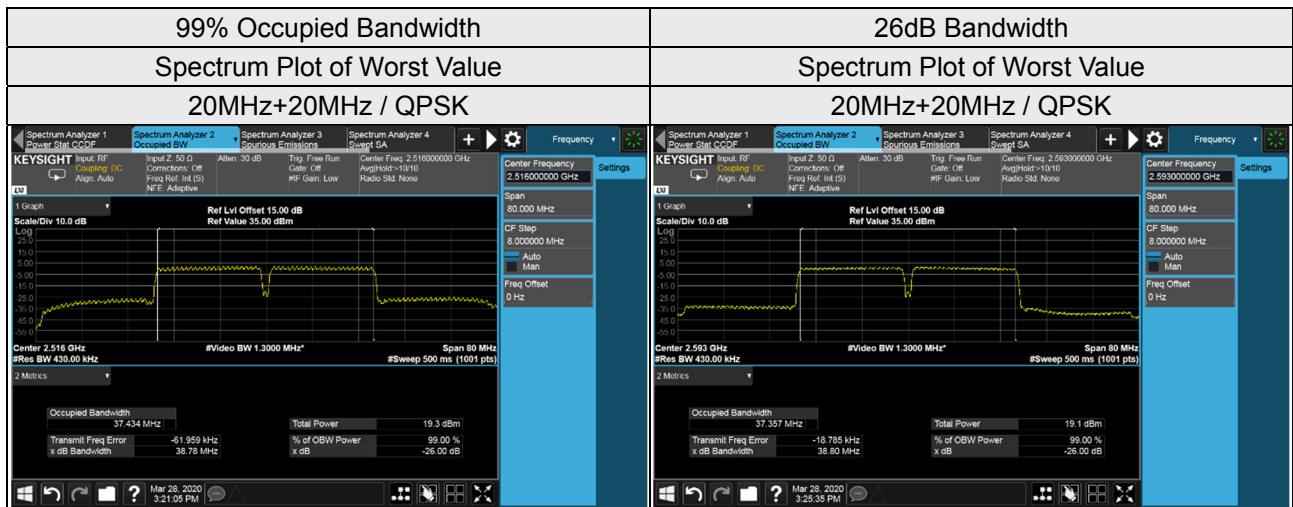
26dB Bandwidth  
Spectrum Plot of Worst Value  
15MHz+15MHz / 64QAM



LTE Band 41 (CA 41C)

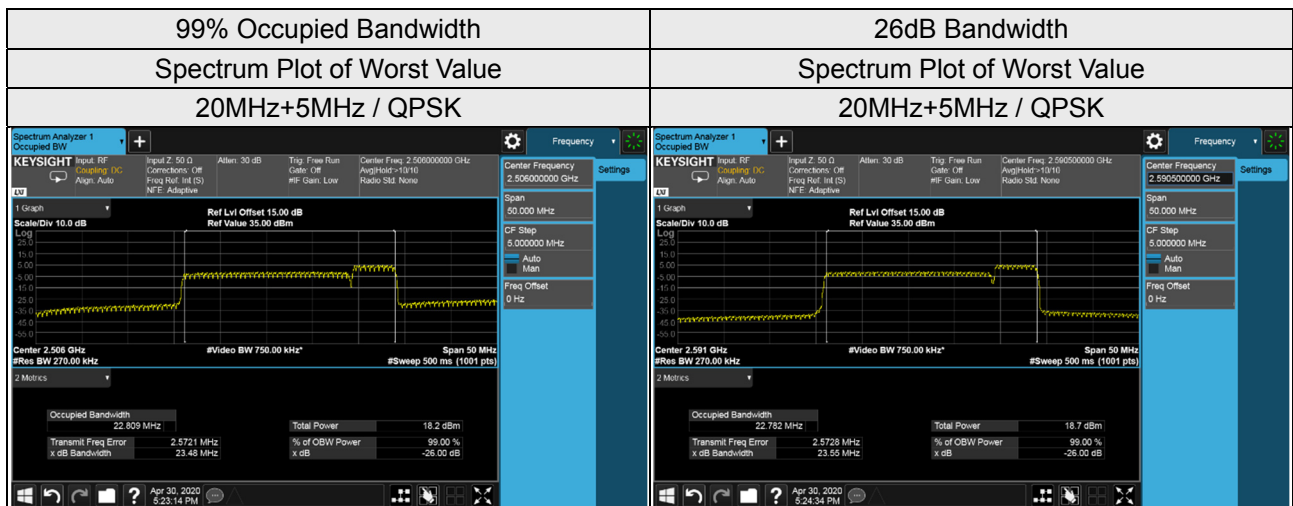
LTE Band 41 (CA 41C), Channel Bandwidth 20MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39750+39948	2506.0+2525.8	37.434	38.78
40521+40719	2583.1+2602.9	37.357	38.80
41292+41490	2660.2+2680.0	37.331	38.75



LTE Band 41 (CA 41C), Channel Bandwidth 20MHz+5MHz

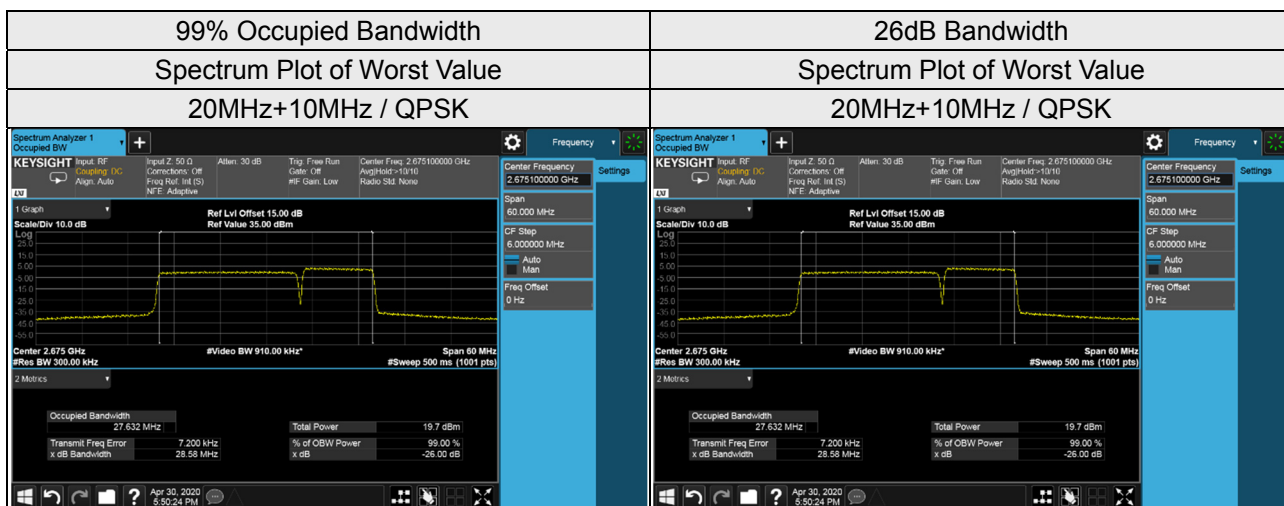
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39750+39867	2506.0+2517.7	22.809	23.48
40595+40712	2590.5+2602.2	22.782	23.55
41440+41557	2675.0+2686.7	22.776	23.55





LTE Band 41 (CA 41C), Channel Bandwidth 20MHz+10MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39750+39894	2506.0+2520.4	27.617	28.58
40571+40715	2588.1+2602.5	27.635	28.55
41391+41535	2670.1+2684.5	27.632	28.58



LTE Band 41 (CA 41C), Channel Bandwidth 20MHz+15MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39750+39921	2506.0+2523.1	32.550	33.69
40546+40717	2585.6+2602.7	32.556	33.64
41341+41512	2665.1+2682.2	32.550	33.69



LTE Band 41 (CA 41C), Channel Bandwidth 15MHz+10MHz

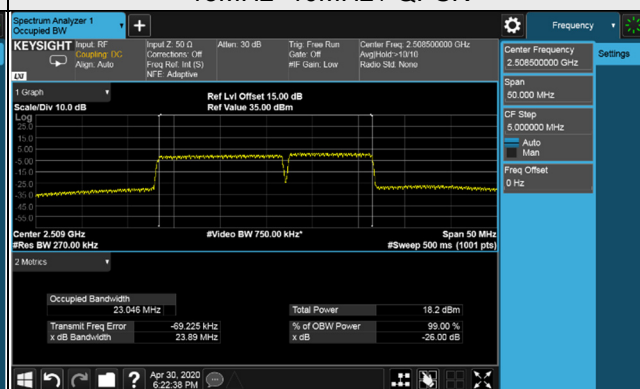
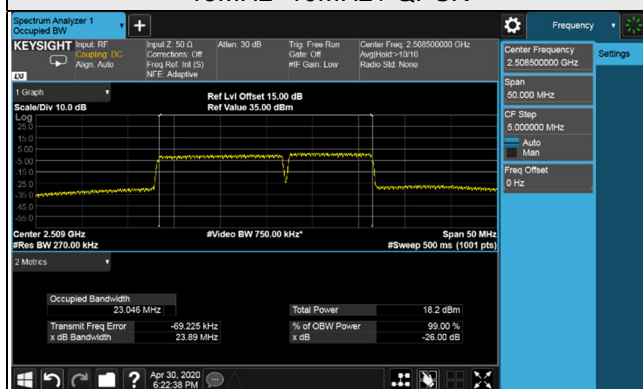
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39725+39845	2503.5+2515.5	23.046	23.89
40571+40691	2588.1+2600.1	23.034	23.89
41417+41537	2672.7+2684.7	23.041	23.88

99% Occupied Bandwidth  
Spectrum Plot of Worst Value

26dB Bandwidth  
Spectrum Plot of Worst Value

15MHz+10MHz / QPSK

15MHz+10MHz / QPSK



LTE Band 41 (CA 41C), Channel Bandwidth 15MHz+15MHz

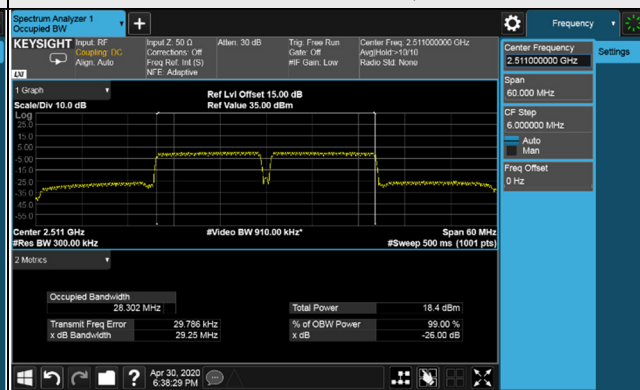
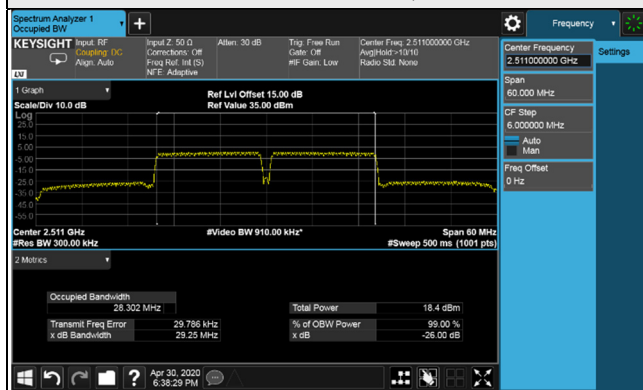
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39725+39875	2503.5+2518.5	28.302	29.25
40545+40695	2685.5+2600.5	28.226	29.21
41365+41515	2667.5+2682.5	28.214	29.21

99% Occupied Bandwidth  
Spectrum Plot of Worst Value

26dB Bandwidth  
Spectrum Plot of Worst Value

15MHz+15MHz / QPSK

15MHz+15MHz / QPSK



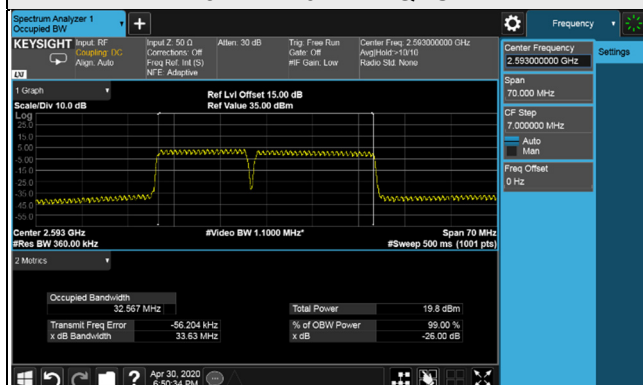
LTE Band 41 (CA 41C), Channel Bandwidth 15MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39728+39899	2503.8+2520.9	32.532	33.70
40523+40694	2583.3+2600.4	32.567	33.63
41319+41490	2662.9+2680.0	32.494	33.64

99% Occupied Bandwidth

Spectrum Plot of Worst Value

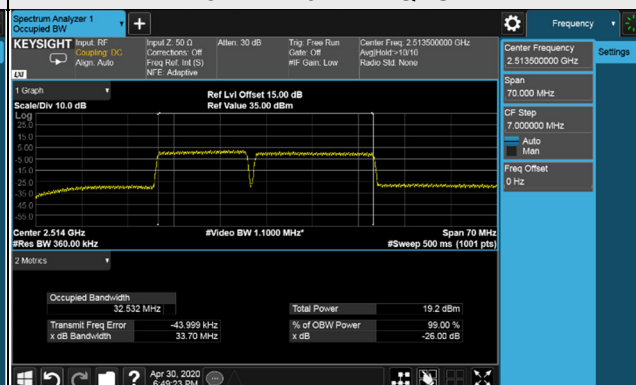
15MHz+20MHz / QPSK



26dB Bandwidth

Spectrum Plot of Worst Value

15MHz+20MHz / QPSK



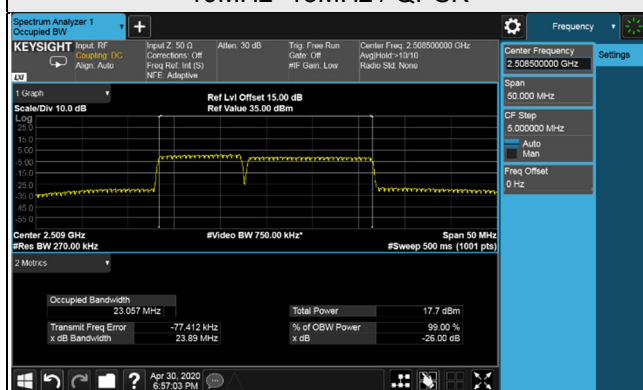
LTE Band 41 (CA 41C), Channel Bandwidth 10MHz+15MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39703+39823	2501.3+2513.3	23.057	23.89
40549+40669	2585.9+2597.9	23.026	23.85
41395+41515	2670.5+2682.5	22.980	23.83

99% Occupied Bandwidth

Spectrum Plot of Worst Value

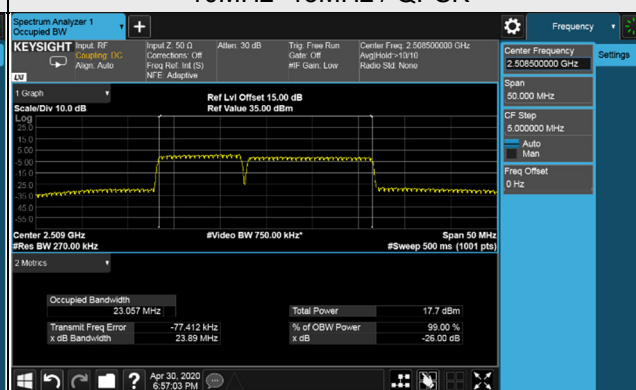
10MHz+15MHz / QPSK



26dB Bandwidth

Spectrum Plot of Worst Value

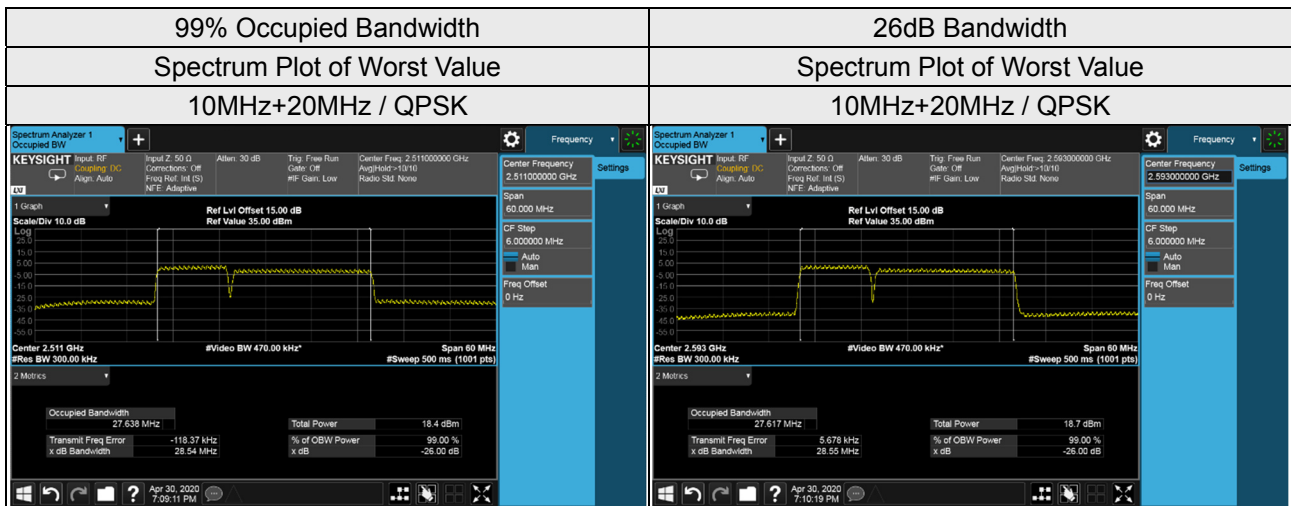
10MHz+15MHz / QPSK





LTE Band 41 (CA 41C), Channel Bandwidth 10MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39705+39849	2501.5+2515.9	27.638	28.54
40526+40670	2583.6+2598.0	27.617	28.55
41346+41490	2665.6+2680.0	27.556	28.54



LTE Band 41 (CA 41C), Channel Bandwidth 5MHz+20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK_Full RB	QPSK_Full RB
39683+39800	2499.3+2511.0	22.768	23.54
40528+40645	2583.8+2595.5	22.728	23.50
41373+41490	2668.3+2680.0	22.720	23.51

