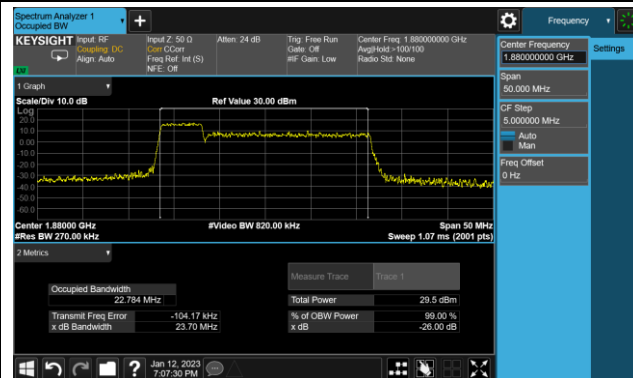
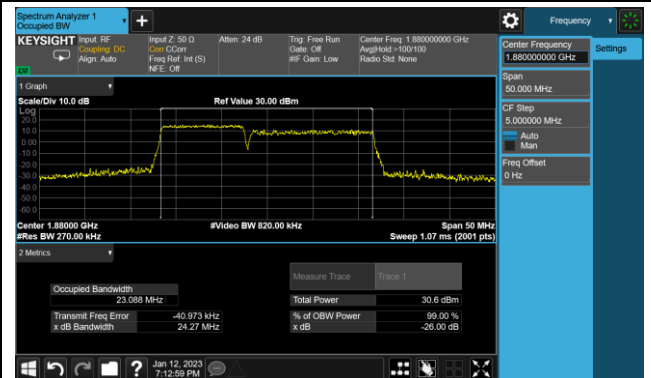


99% Bandwidth - QPSK

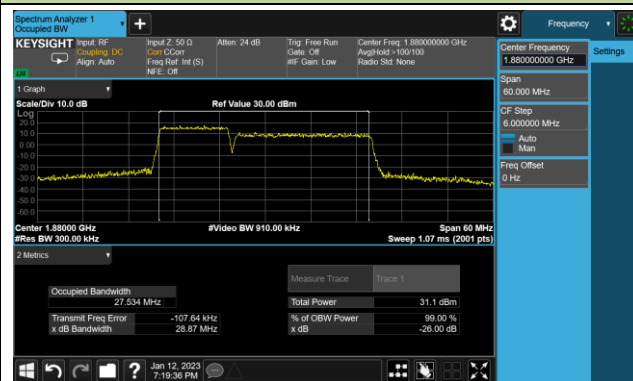
5+20MHz Channel Bandwidth



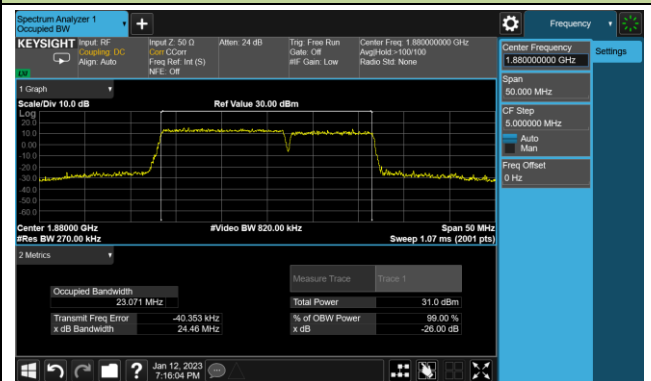
10+15MHz Channel Bandwidth



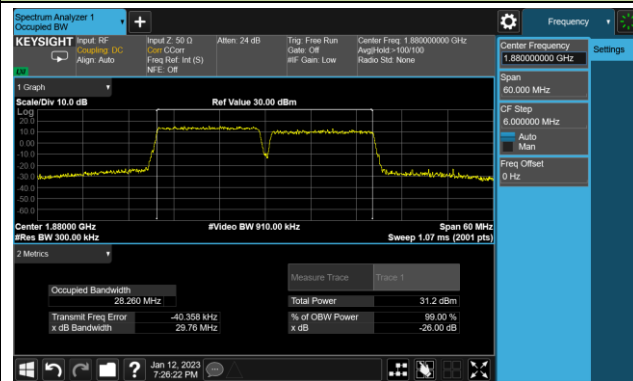
10+20MHz Channel Bandwidth



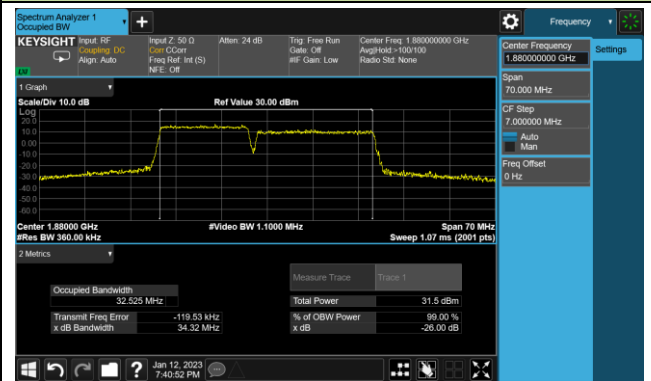
15+10MHz Channel Bandwidth



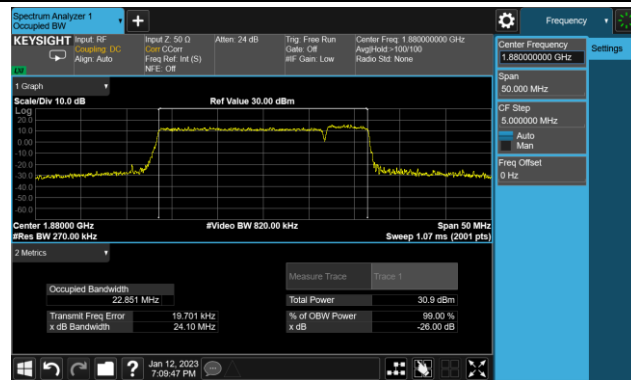
15+15MHz Channel Bandwidth



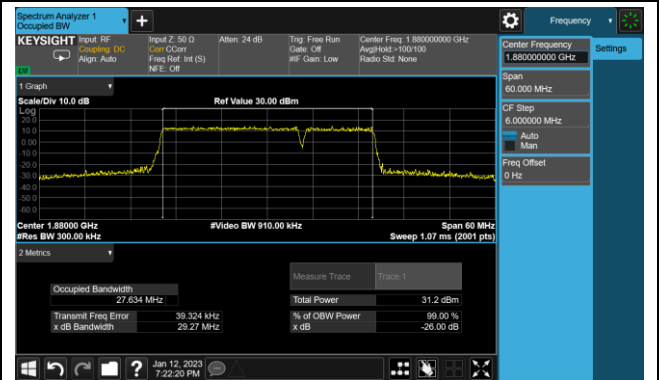
15+20MHz Channel Bandwidth



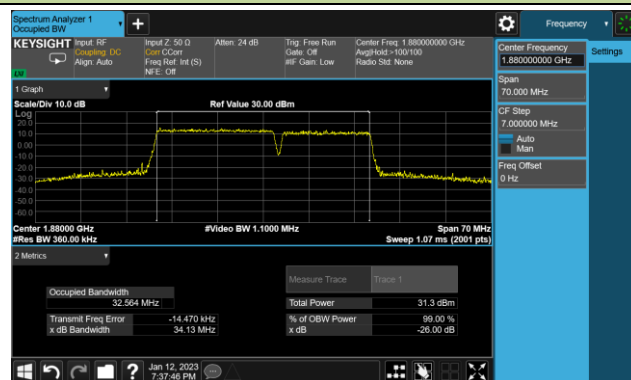
20+5MHz Channel Bandwidth



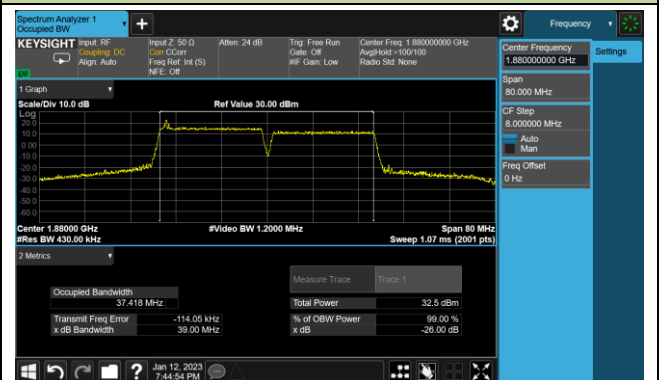
20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth

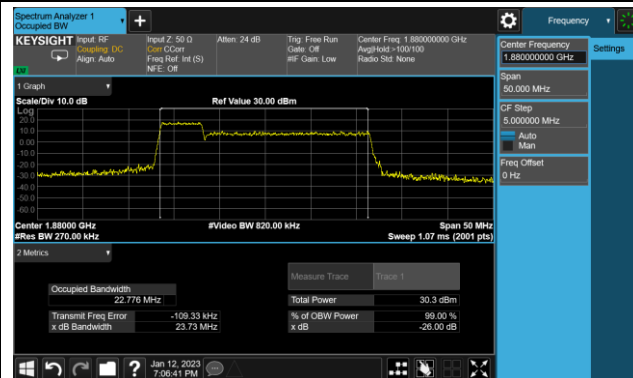


20+20MHz Channel Bandwidth

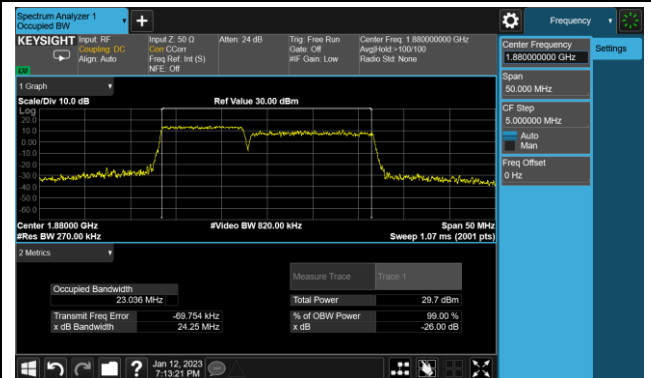


99% Bandwidth - 16QAM

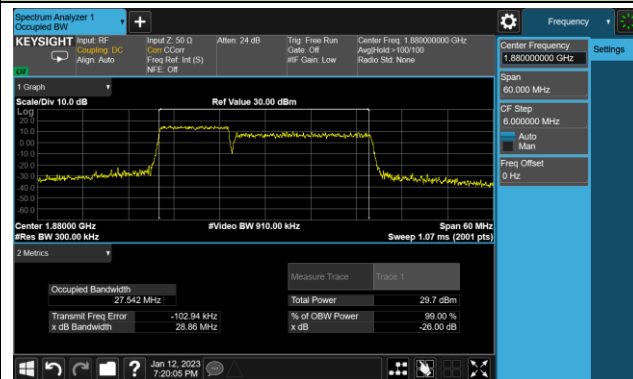
5+20MHz Channel Bandwidth



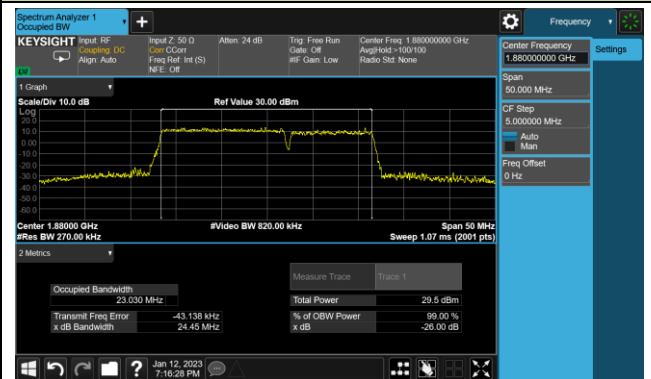
10+15MHz Channel Bandwidth



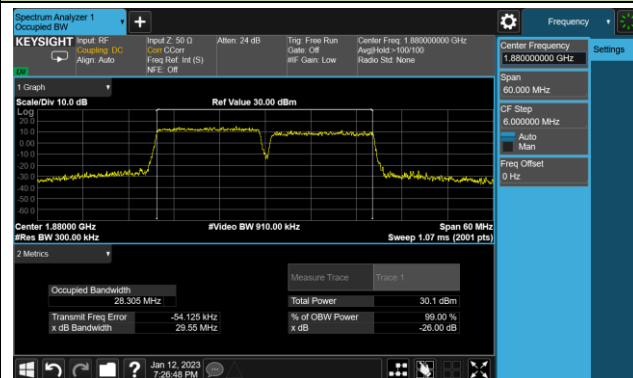
10+20MHz Channel Bandwidth



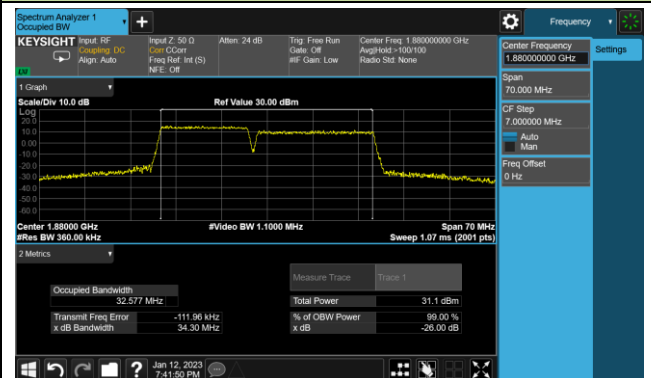
15+10MHz Channel Bandwidth

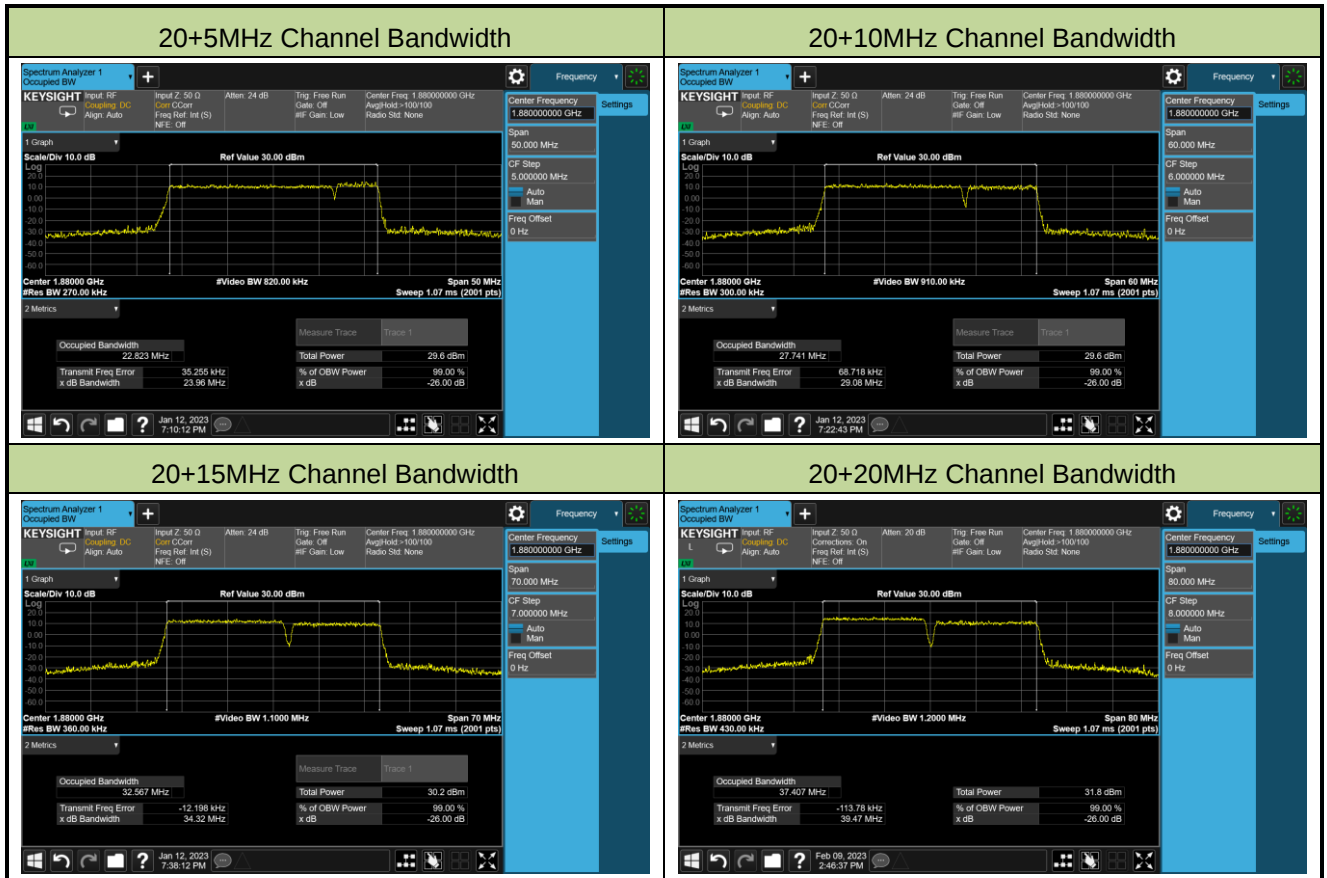


15+15MHz Channel Bandwidth



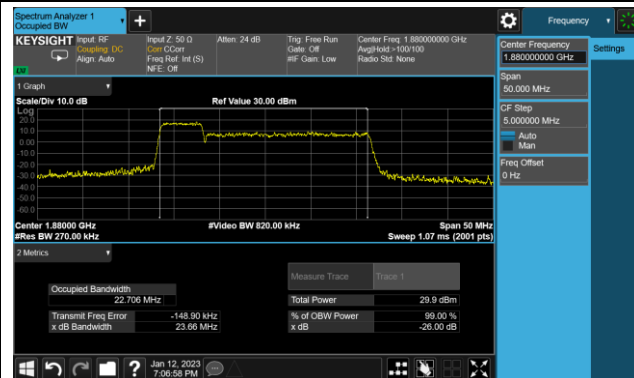
15+20MHz Channel Bandwidth



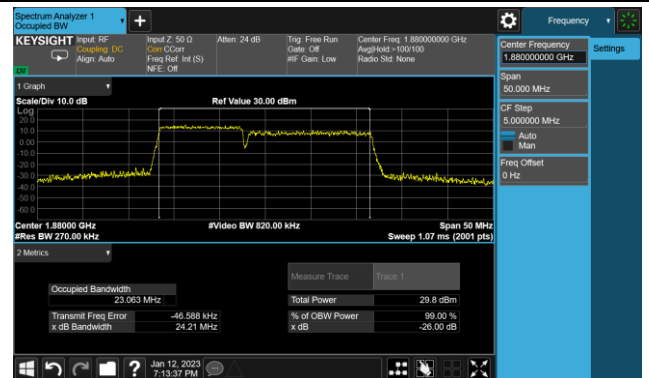


99% Bandwidth - 64QAM

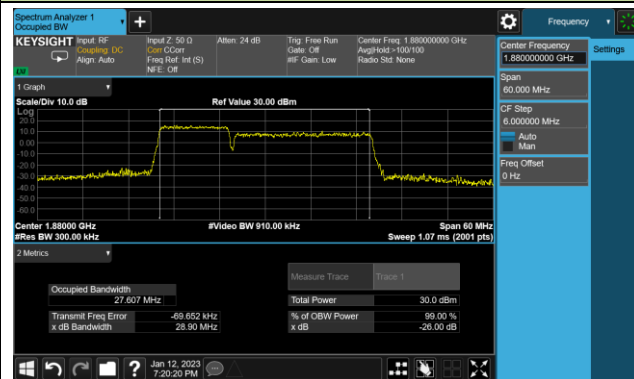
5+20MHz Channel Bandwidth



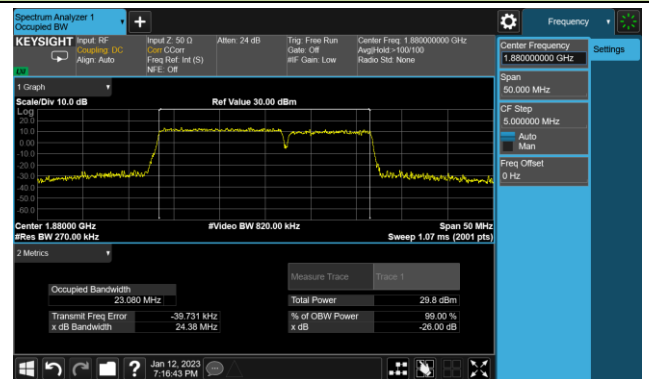
10+15MHz Channel Bandwidth



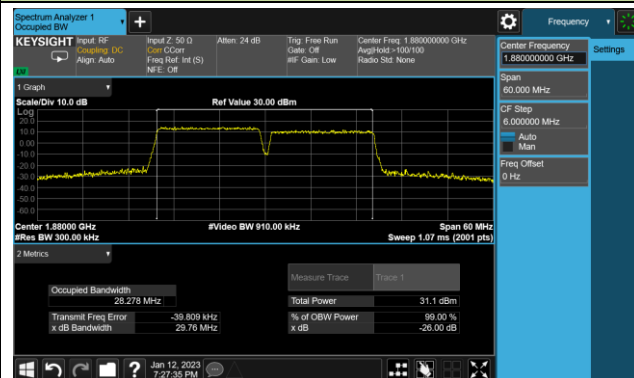
10+20MHz Channel Bandwidth



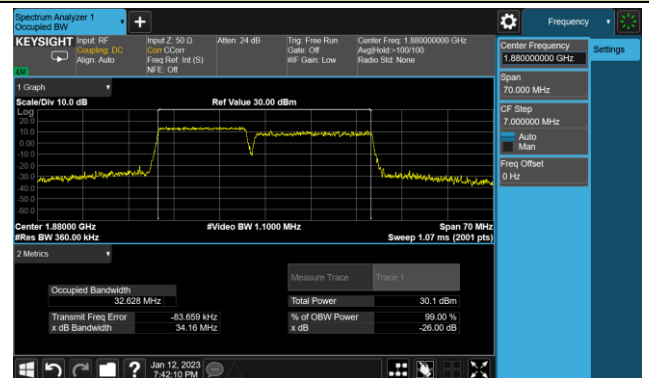
15+10MHz Channel Bandwidth

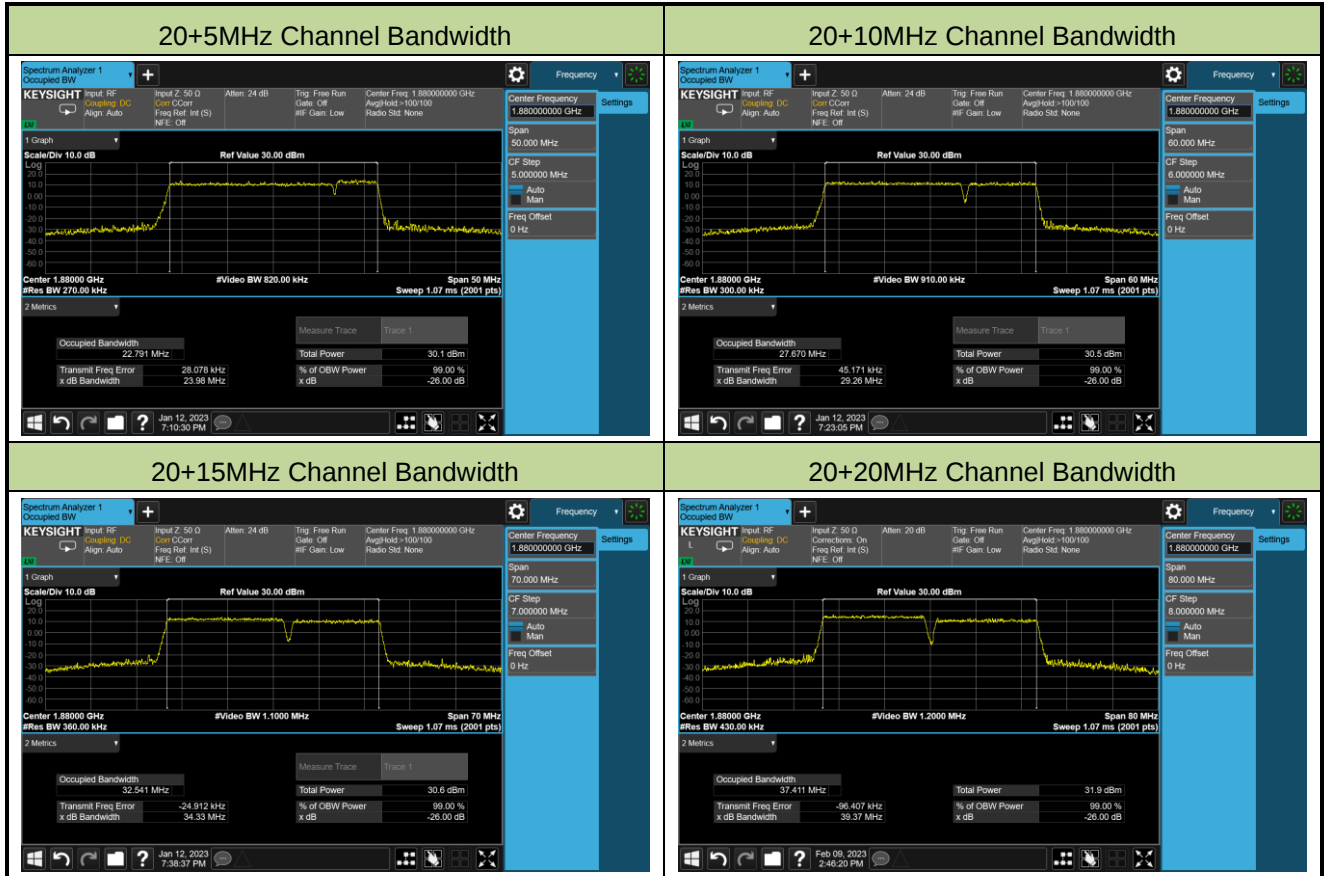


15+15MHz Channel Bandwidth



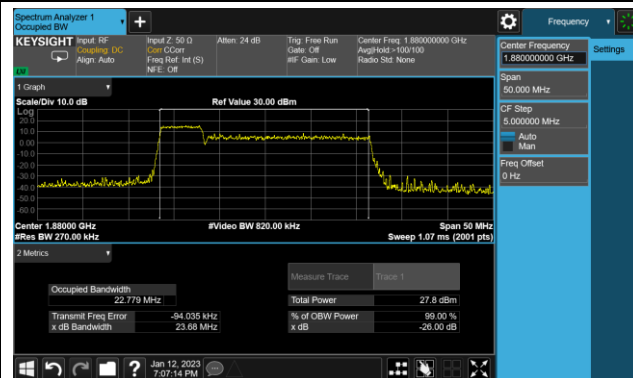
15+20MHz Channel Bandwidth



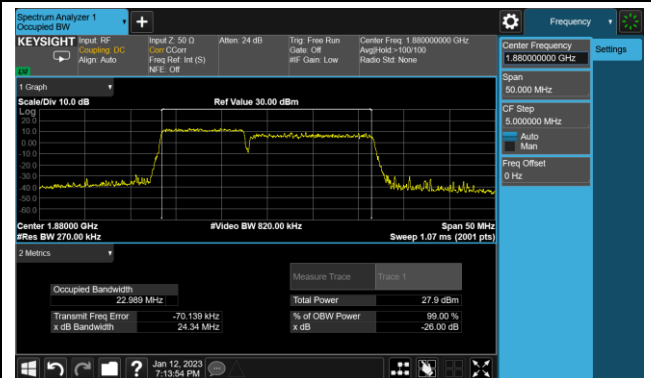


99% Bandwidth - 256QAM

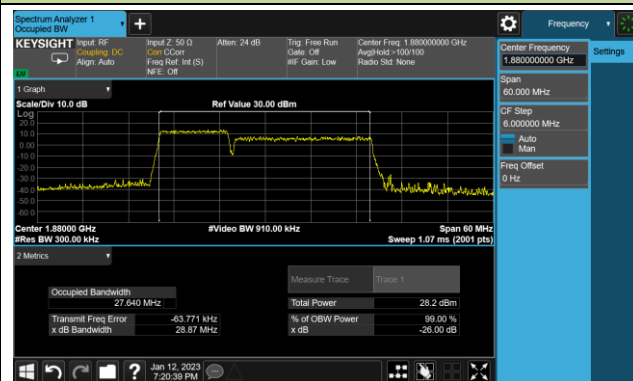
5+20MHz Channel Bandwidth



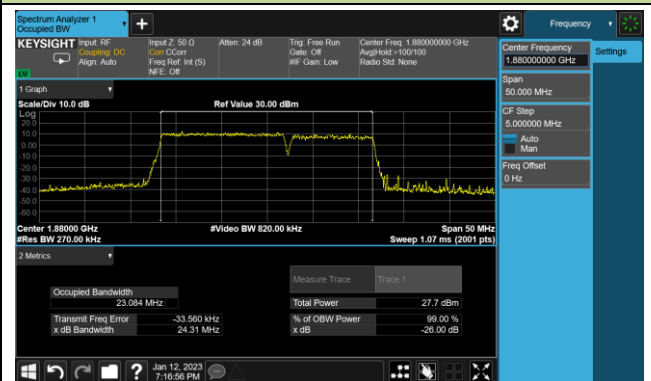
10+15MHz Channel Bandwidth



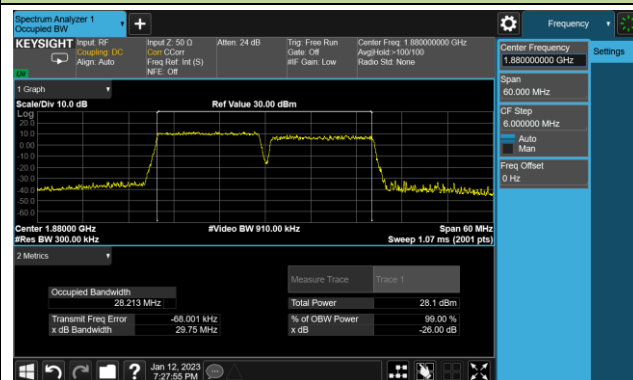
10+20MHz Channel Bandwidth



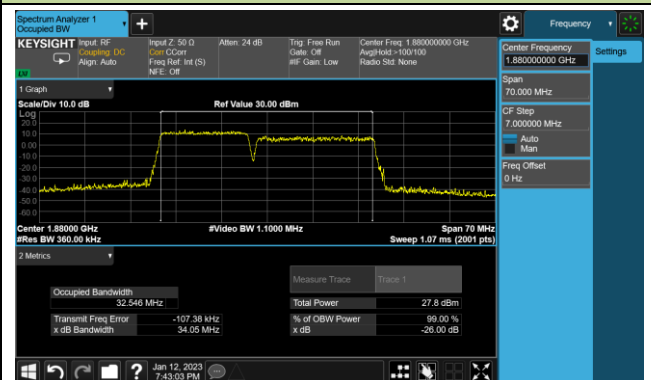
15+10MHz Channel Bandwidth

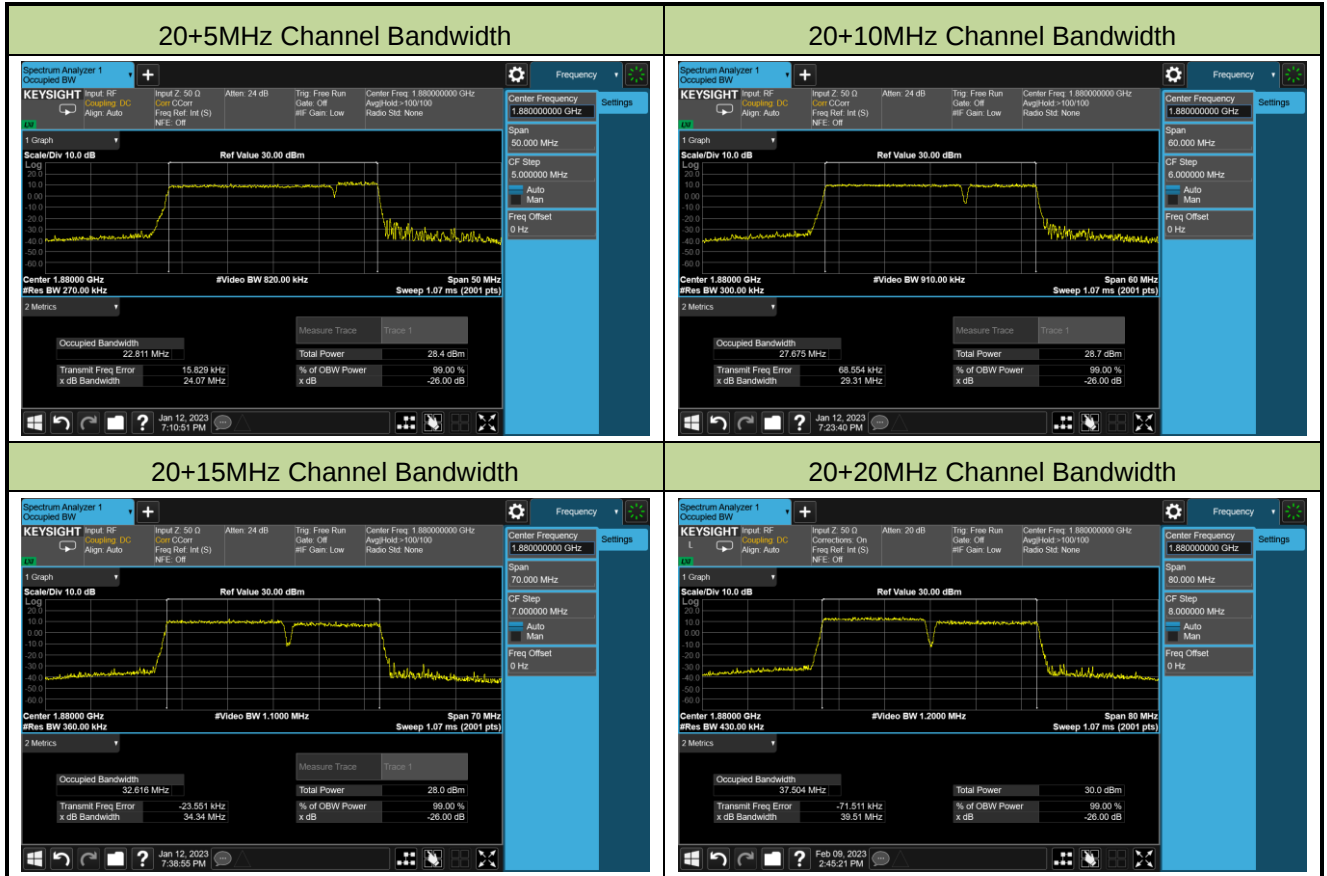


15+15MHz Channel Bandwidth



15+20MHz Channel Bandwidth



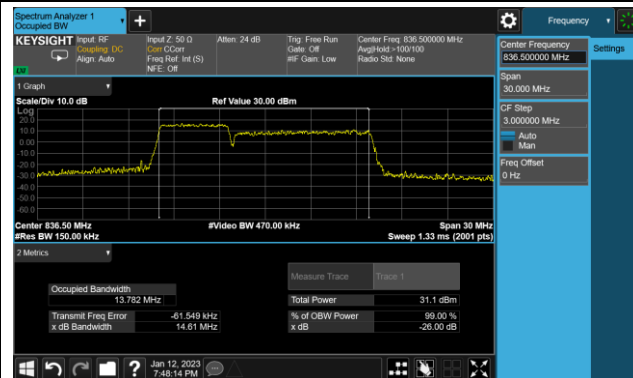


Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-12~2023-02-09	Test Band	Intra-Band CA_5B

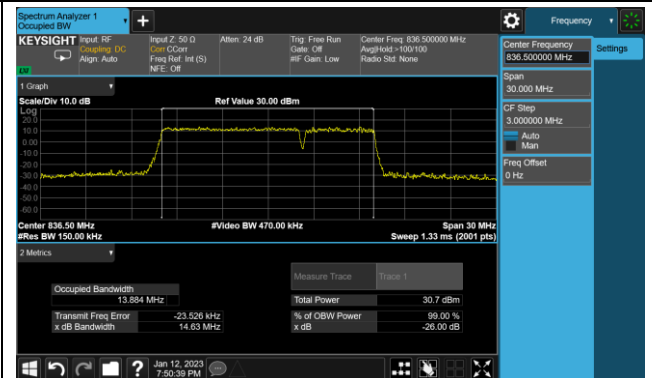
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	831.8 + 839.0	5+10	13.782
	834.0 + 841.2	10+5	13.884
	831.6 + 841.5	10+10	18.736
16QAM	831.8 + 839.0	5+10	13.850
	834.0 + 841.2	10+5	13.863
	831.6 + 841.5	10+10	18.716
64QAM	831.8 + 839.0	5+10	13.793
	834.0 + 841.2	10+5	13.838
	831.6 + 841.5	10+10	18.706
256QAM	831.8 + 839.0	5+10	13.820
	834.0 + 841.2	10+5	13.864
	831.6 + 841.5	10+10	18.700

99% Bandwidth - QPSK

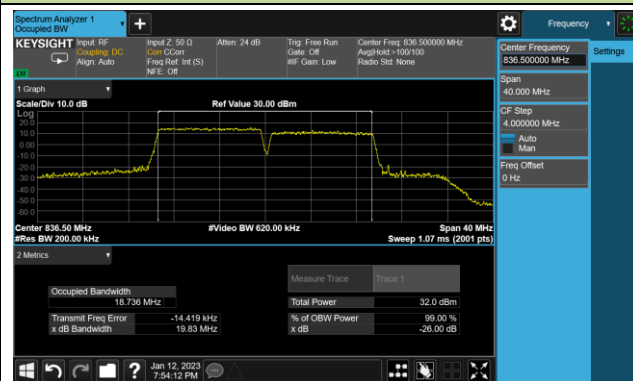
5+10MHz Channel Bandwidth



10+5MHz Channel Bandwidth

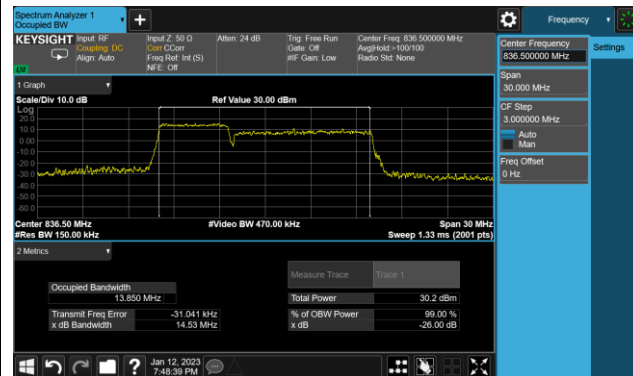


10+10MHz Channel Bandwidth

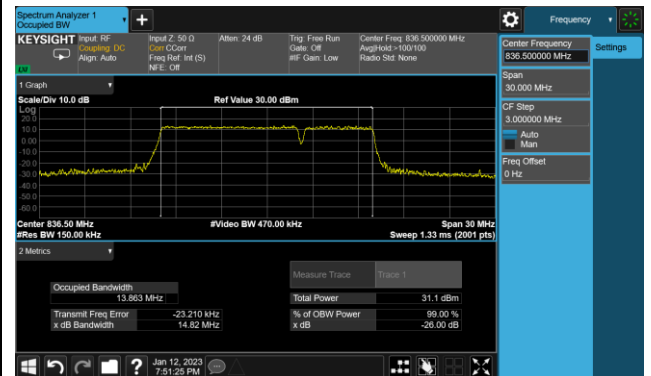


99% Bandwidth - 16QAM

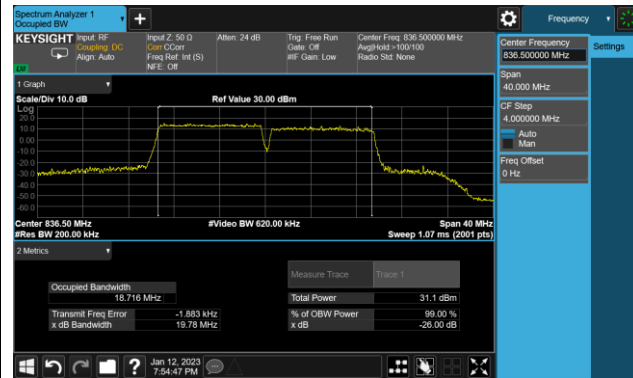
5+10MHz Channel Bandwidth



10+5MHz Channel Bandwidth

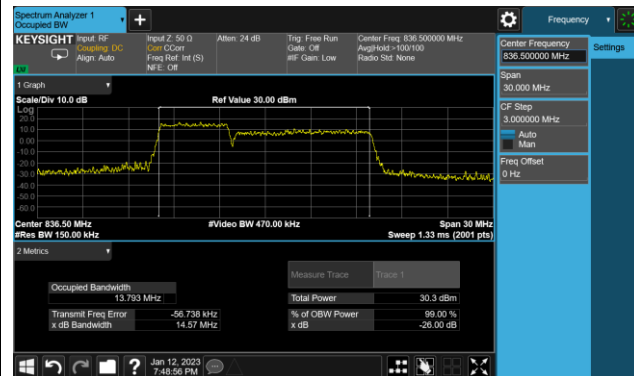


10+10MHz Channel Bandwidth

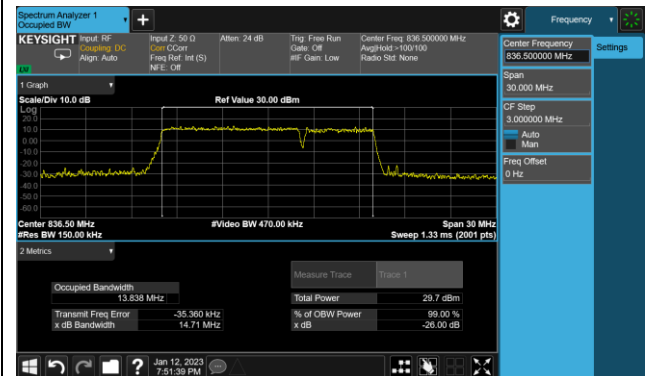


99% Bandwidth - 64QAM

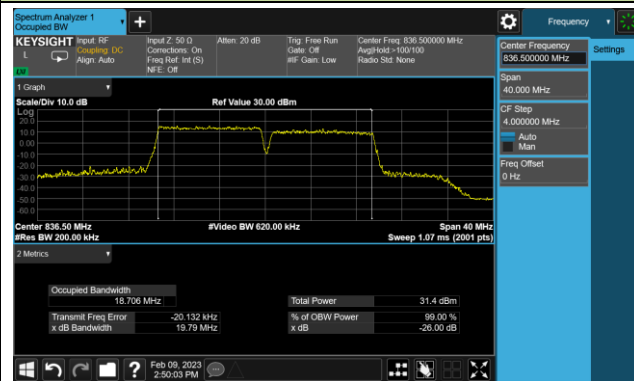
5+10MHz Channel Bandwidth



10+5MHz Channel Bandwidth

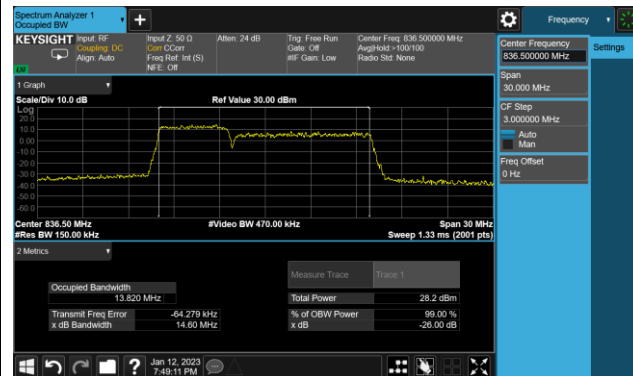


10+10MHz Channel Bandwidth

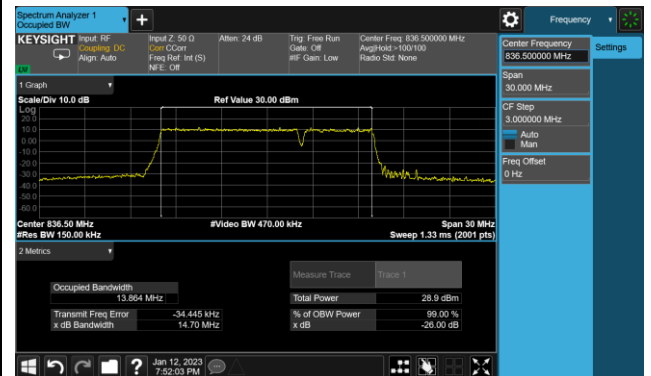


99% Bandwidth - 256QAM

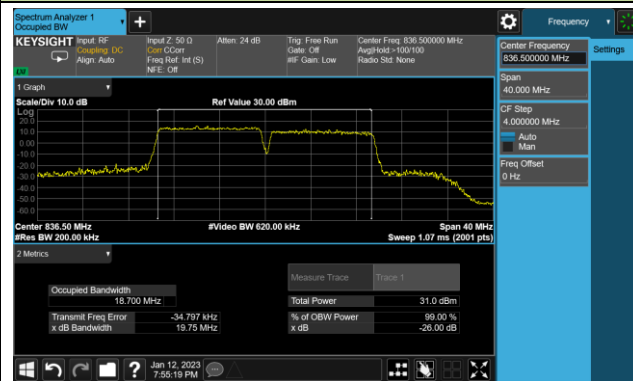
5+10MHz Channel Bandwidth



10+5MHz Channel Bandwidth



10+10MHz Channel Bandwidth

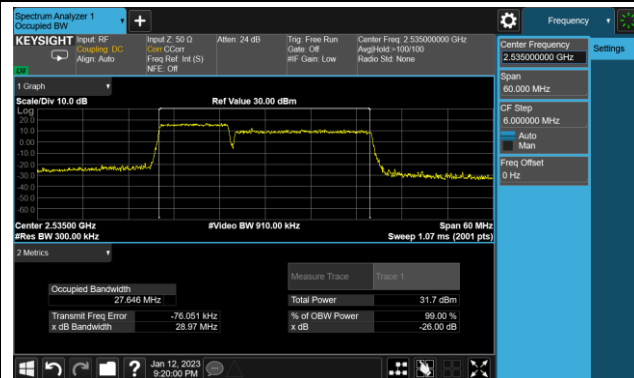


Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-12	Test Band	Intra-Band CA_7C

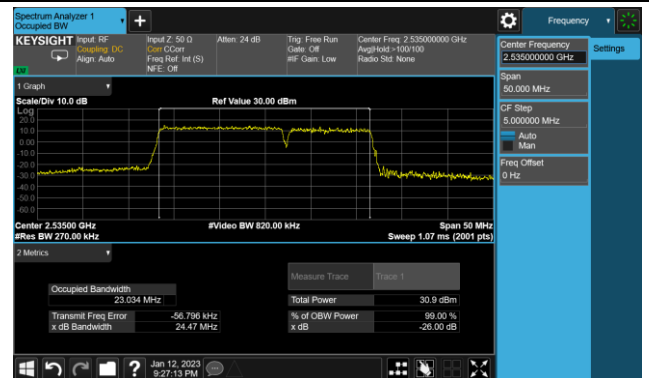
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2525.6 + 2540.0	10+20	27.646
	2530.1 + 2542.1	15+10	23.034
	2527.5 + 2542.5	15+15	28.267
	2525.3 + 2542.4	15+20	32.477
	2530.1 + 2544.5	20+10	27.652
	2527.6 + 2544.7	20+15	32.560
	2525.1 + 2544.9	20+20	37.428
16QAM	2525.6 + 2540.0	10+20	27.587
	2530.1 + 2542.1	15+10	23.071
	2527.5 + 2542.5	15+15	28.275
	2525.3 + 2542.4	15+20	32.511
	2530.1 + 2544.5	20+10	27.663
	2527.6 + 2544.7	20+15	32.561
	2525.1 + 2544.9	20+20	37.408
64QAM	2525.6 + 2540.0	10+20	27.626
	2530.1 + 2542.1	15+10	23.002
	2527.5 + 2542.5	15+15	28.276
	2525.3 + 2542.4	15+20	32.438
	2530.1 + 2544.5	20+10	27.634
	2527.6 + 2544.7	20+15	32.587
	2525.1 + 2544.9	20+20	37.417
256QAM	2525.6 + 2540.0	10+20	27.556
	2530.1 + 2542.1	15+10	23.090
	2527.5 + 2542.5	15+15	28.273
	2525.3 + 2542.4	15+20	32.561
	2530.1 + 2544.5	20+10	27.697
	2527.6 + 2544.7	20+15	32.578
	2525.1 + 2544.9	20+20	37.444

99% Bandwidth - QPSK

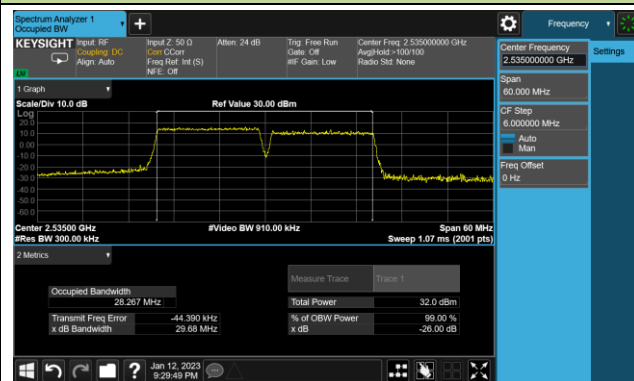
10+20MHz Channel Bandwidth



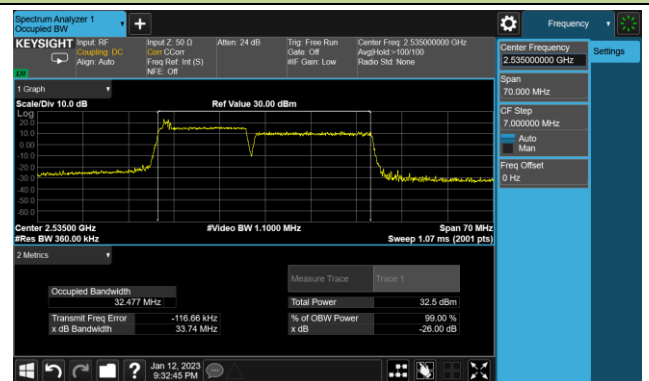
15+10MHz Channel Bandwidth



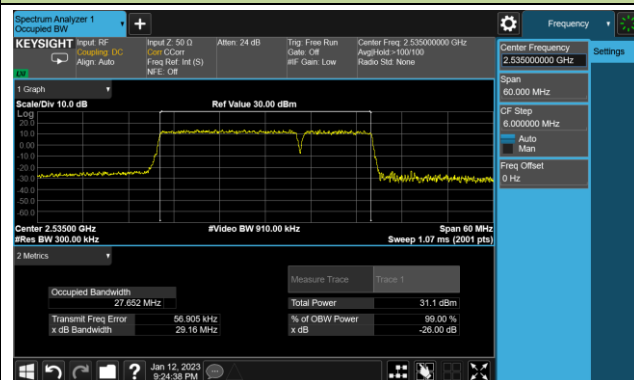
15+15MHz Channel Bandwidth



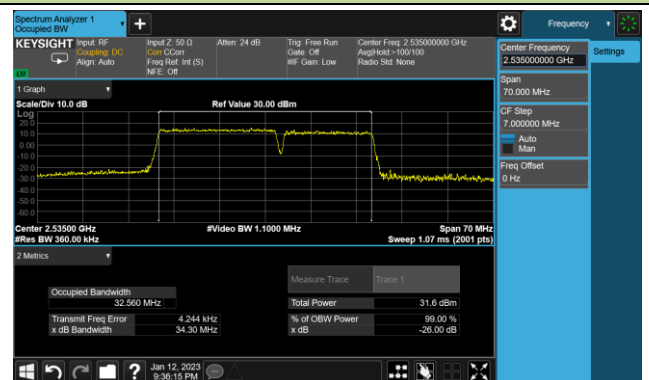
15+20MHz Channel Bandwidth



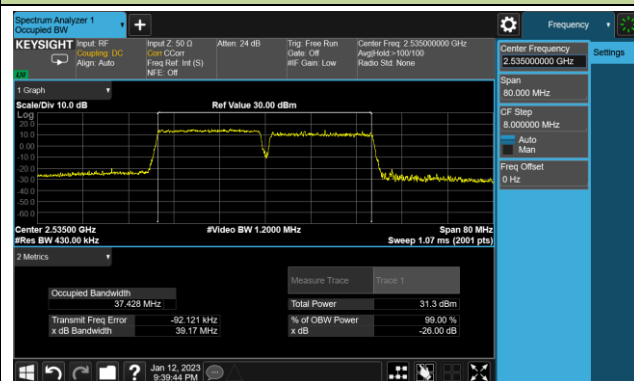
20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth

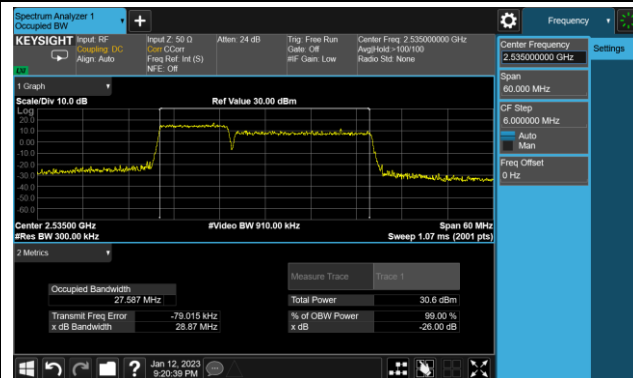


20+20MHz Channel Bandwidth

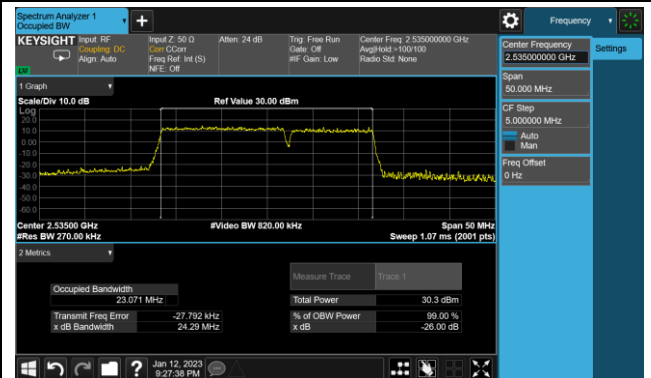


99% Bandwidth - 16QAM

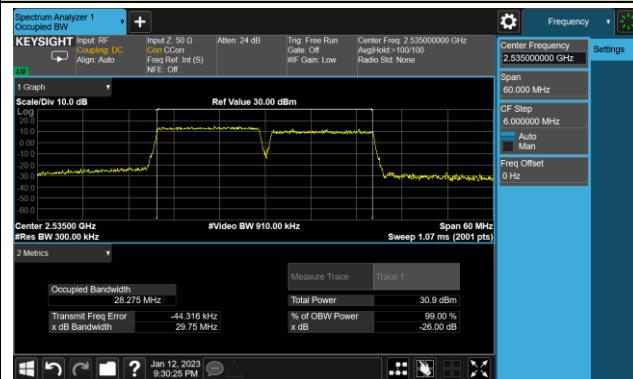
10+20MHz Channel Bandwidth



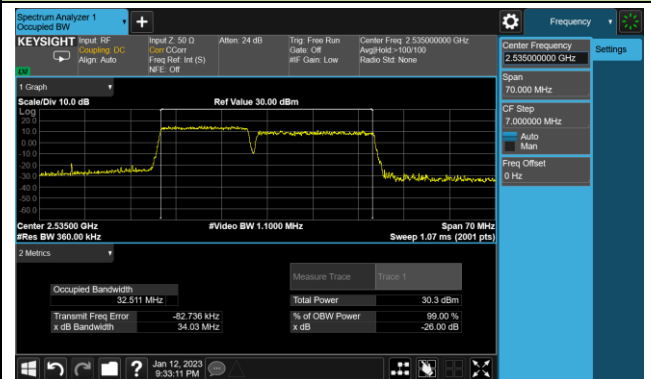
15+10MHz Channel Bandwidth



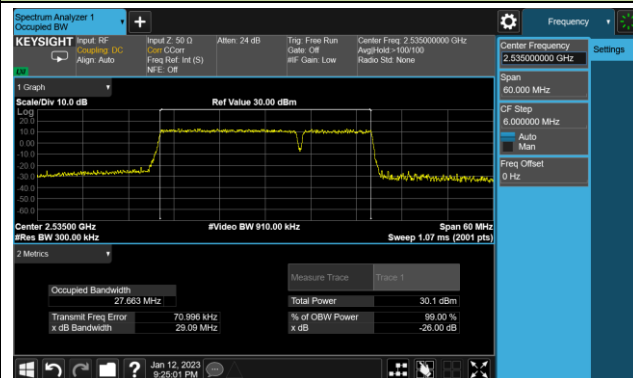
15+15MHz Channel Bandwidth



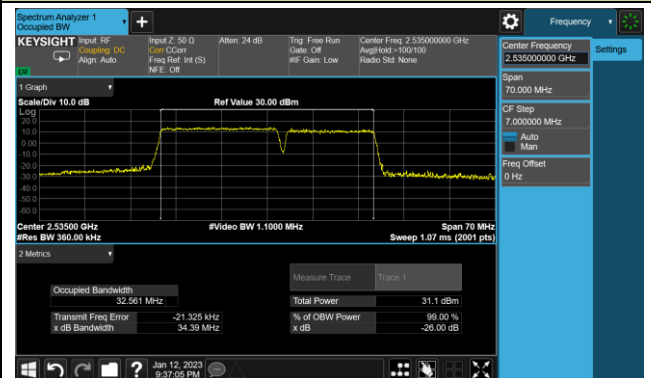
15+20MHz Channel Bandwidth



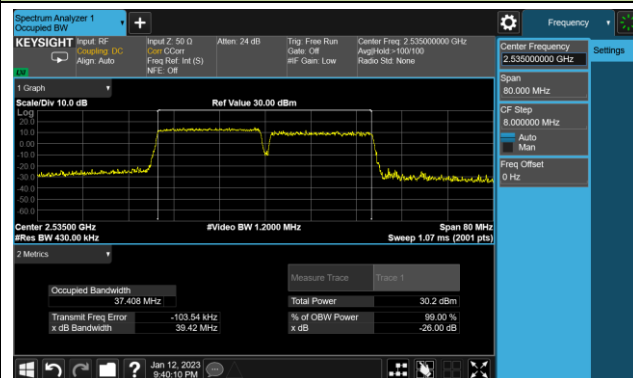
20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth

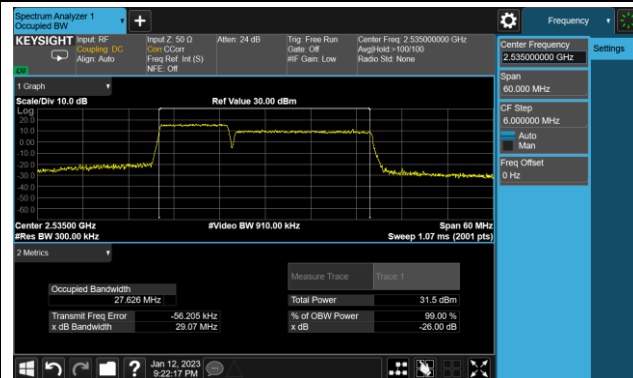


20+20MHz Channel Bandwidth

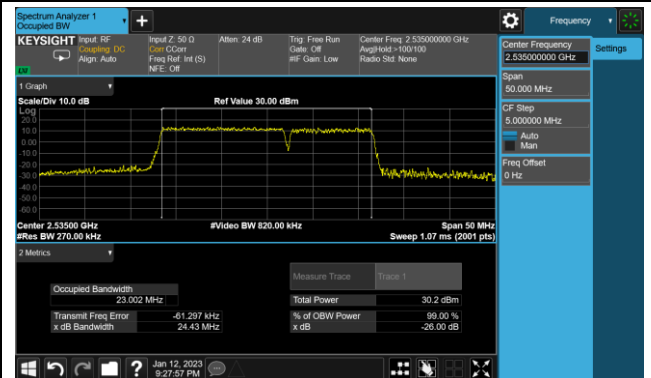


99% Bandwidth - 64QAM

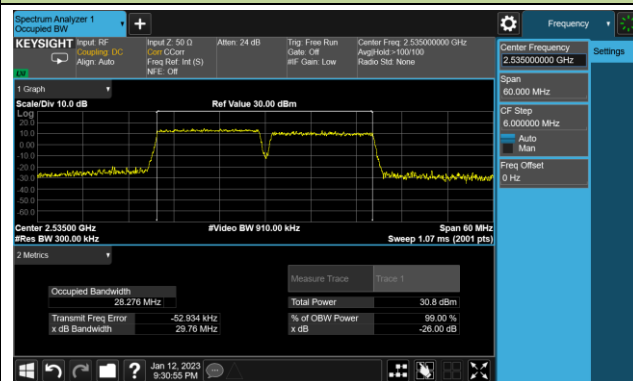
10+20MHz Channel Bandwidth



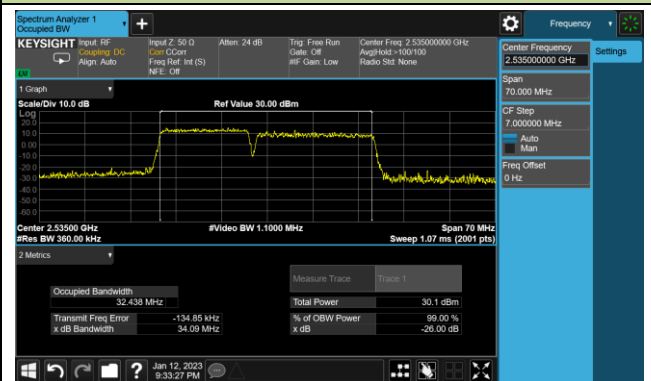
15+10MHz Channel Bandwidth



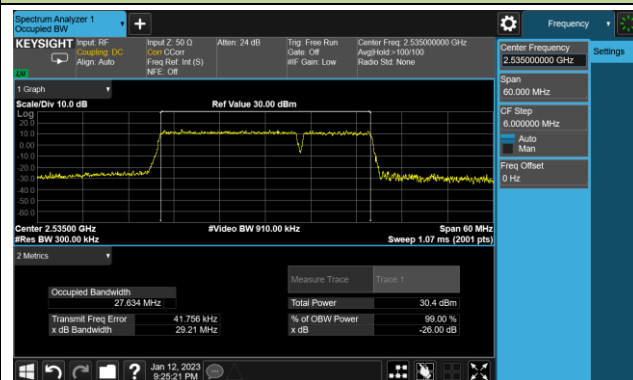
15+15MHz Channel Bandwidth



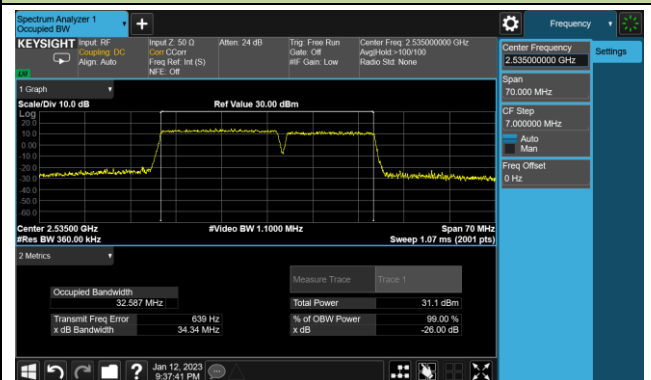
15+20MHz Channel Bandwidth



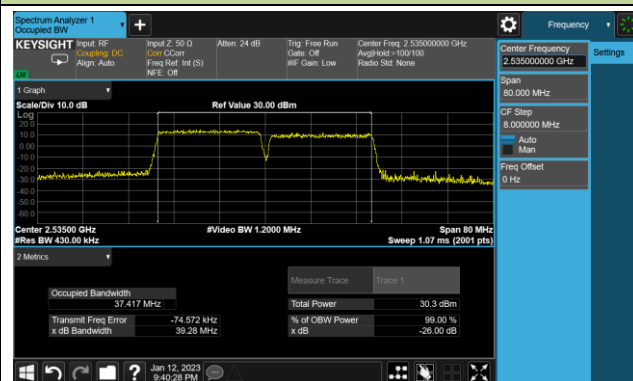
20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth

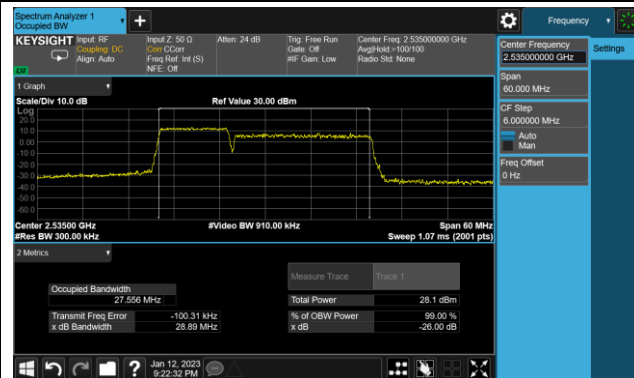


20+20MHz Channel Bandwidth

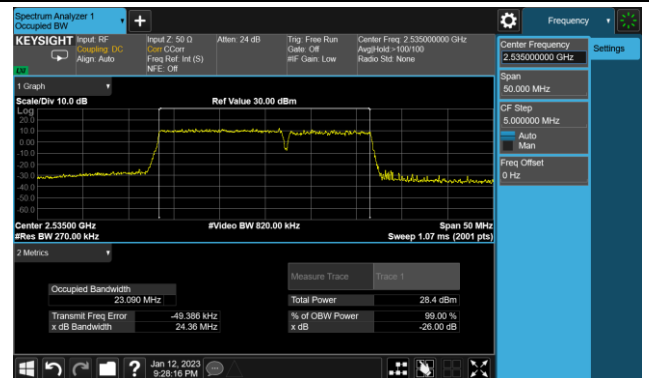


99% Bandwidth - 256QAM

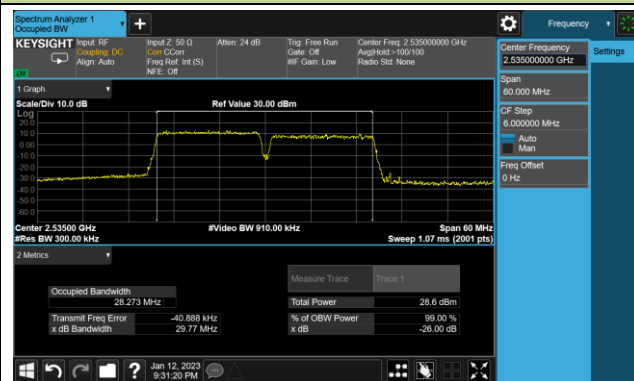
10+20MHz Channel Bandwidth



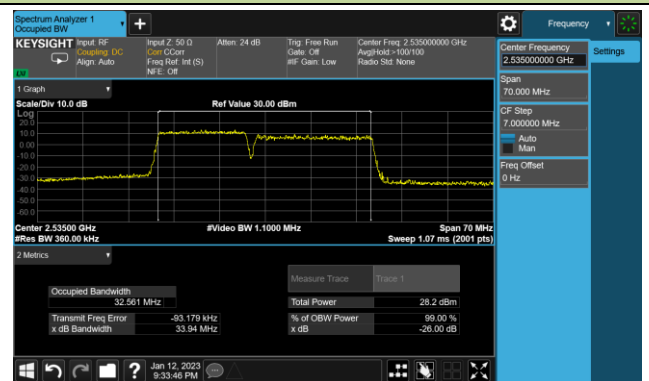
15+10MHz Channel Bandwidth



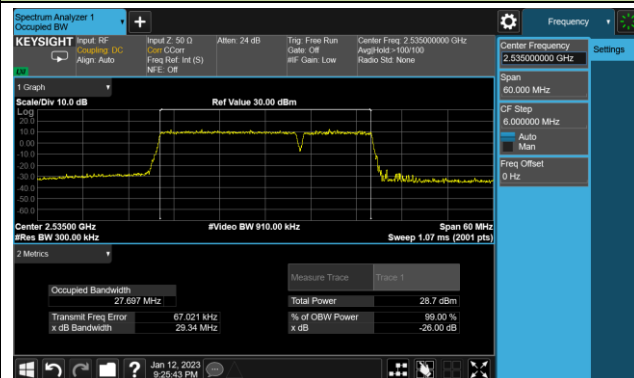
15+15MHz Channel Bandwidth



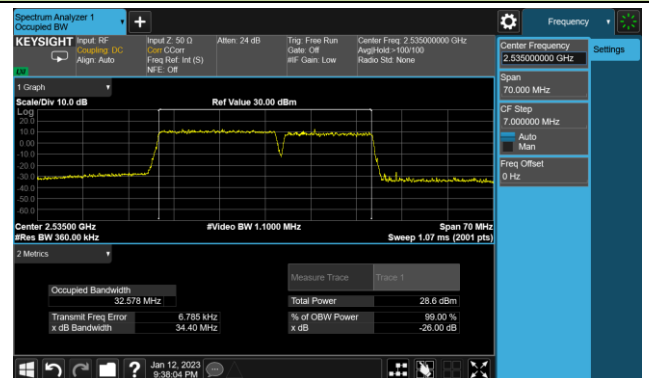
15+20MHz Channel Bandwidth



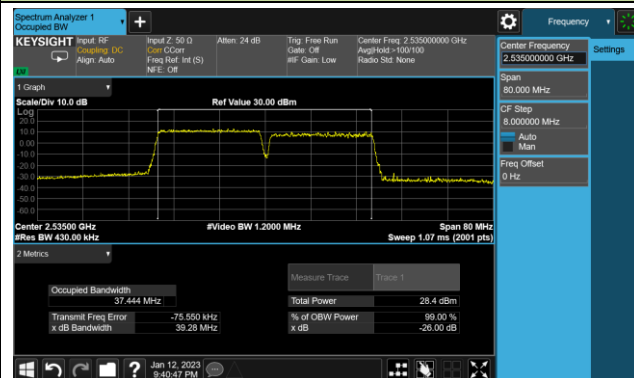
20+10MHz Channel Bandwidth



20+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth

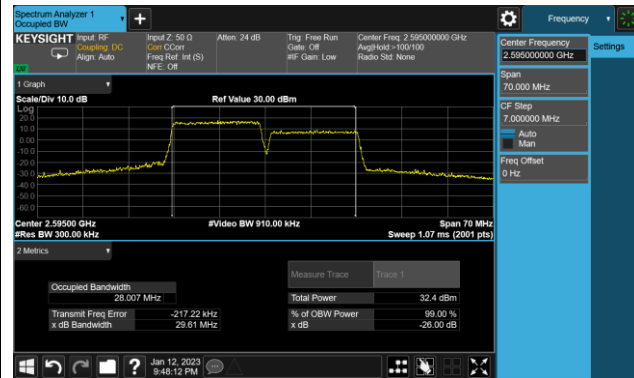


Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-12	Test Band	Intra-Band CA_38C

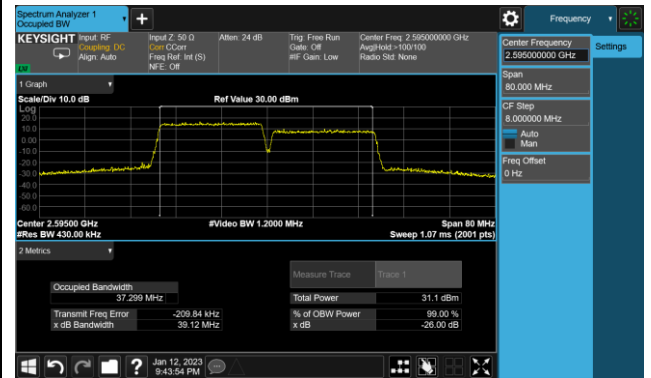
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2587.5 + 2602.5	15+15	28.007
	2585.1 + 2604.9	20+20	37.299
16QAM	2587.5 + 2602.5	15+15	28.070
	2585.1 + 2604.9	20+20	37.200
64QAM	2587.5 + 2602.5	15+15	28.106
	2585.1 + 2604.9	20+20	37.258
256QAM	2587.5 + 2602.5	15+15	28.125
	2585.1 + 2604.9	20+20	37.213

99% Bandwidth - QPSK

15+15MHz Channel Bandwidth

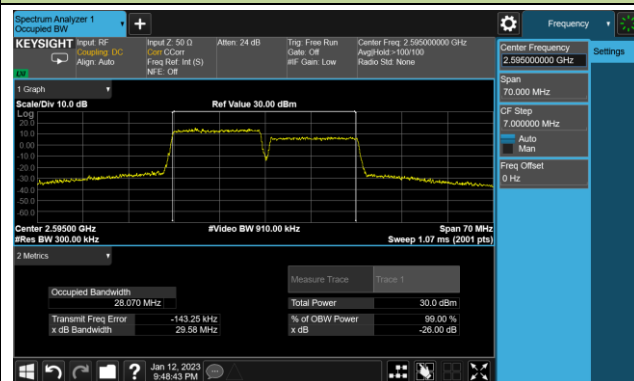


20+20MHz Channel Bandwidth

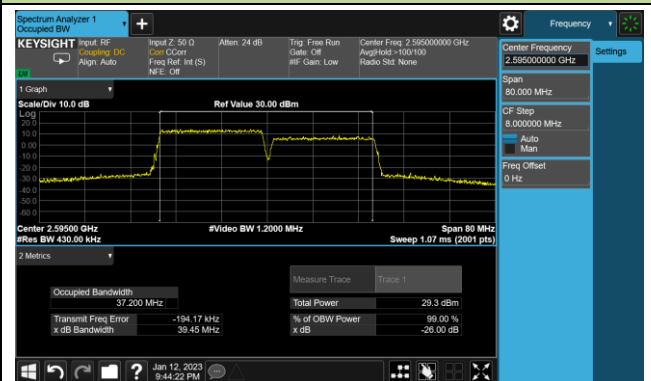


99% Bandwidth - 16QAM

15+15MHz Channel Bandwidth

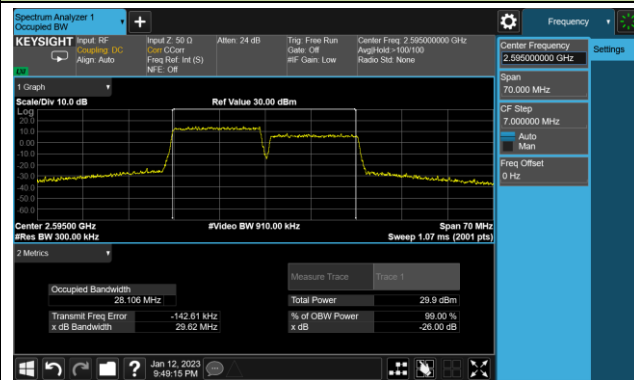


20+20MHz Channel Bandwidth

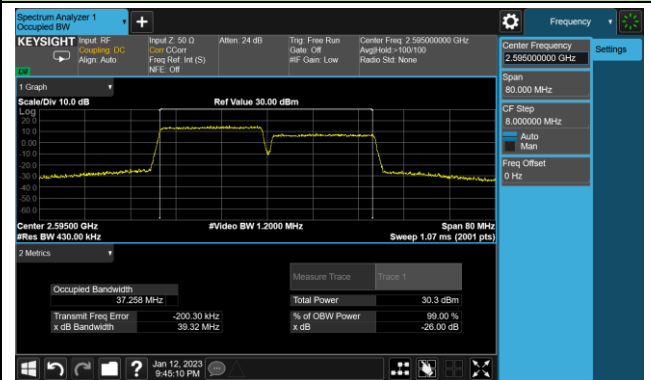


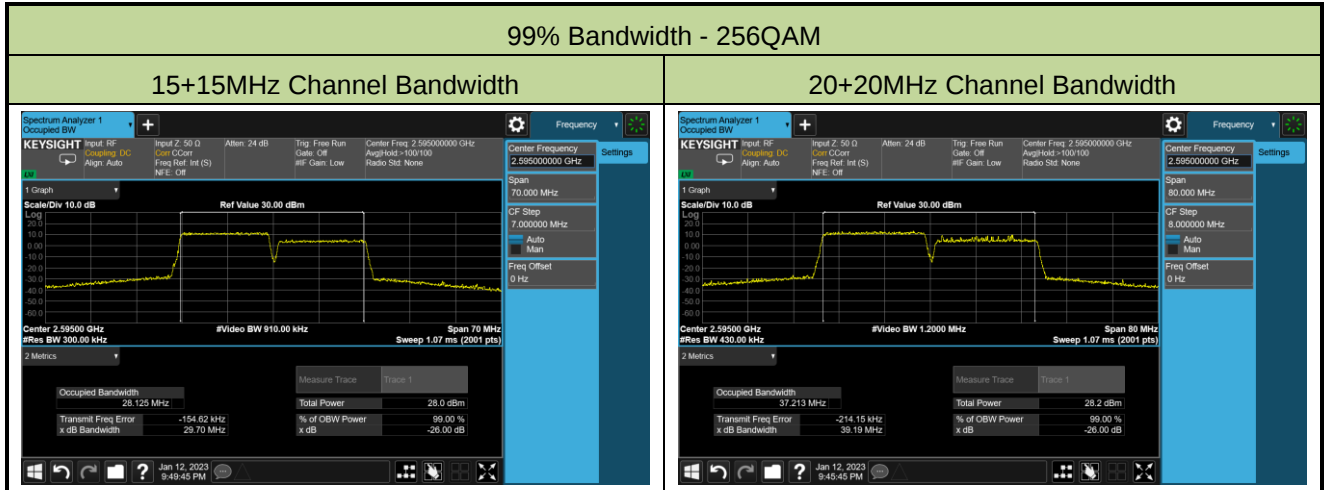
99% Bandwidth - 64QAM

15+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth





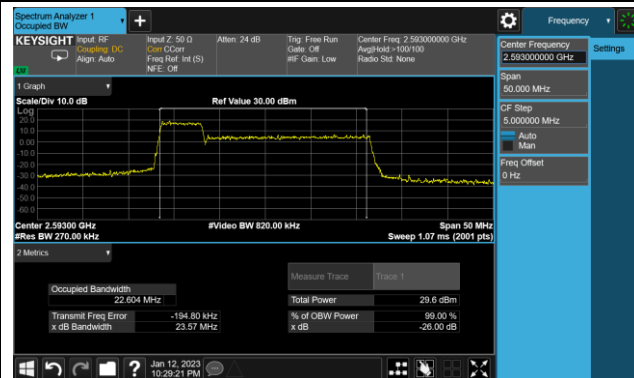
Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-12	Test Band	Intra-Band CA_41C

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	2583.8 + 2595.5	5+20	22.604
	2585.9 + 2597.9	10+15	22.902
	2583.6 + 2598.0	10+20	27.438
	2588.1 + 2600.1	15+10	22.965
	2585.5 + 2600.5	15+15	28.068
	2583.3 + 2600.4	15+20	32.387
	2590.5 + 2602.2	20+5	22.771
	2588.1 + 2602.5	20+10	27.538
	2585.6 + 2602.7	20+15	32.529
	2583.1 + 2602.9	20+20	37.320
16QAM	2583.8 + 2595.5	5+20	22.557
	2585.9 + 2597.9	10+15	22.927
	2583.6 + 2598.0	10+20	27.432
	2588.1 + 2600.1	15+10	22.954
	2585.5 + 2600.5	15+15	28.078
	2583.3 + 2600.4	15+20	32.398
	2590.5 + 2602.2	20+5	22.741
	2588.1 + 2602.5	20+10	27.607
	2585.6 + 2602.7	20+15	32.389
	2583.1 + 2602.9	20+20	37.260
64QAM	2583.8 + 2595.5	5+20	22.547
	2585.9 + 2597.9	10+15	22.922
	2583.6 + 2598.0	10+20	27.445
	2588.1 + 2600.1	15+10	22.934
	2585.5 + 2600.5	15+15	28.109
	2583.3 + 2600.4	15+20	32.310
	2590.5 + 2602.2	20+5	22.786
	2588.1 + 2602.5	20+10	27.610
	2585.6 + 2602.7	20+15	32.407
	2583.1 + 2602.9	20+20	37.264

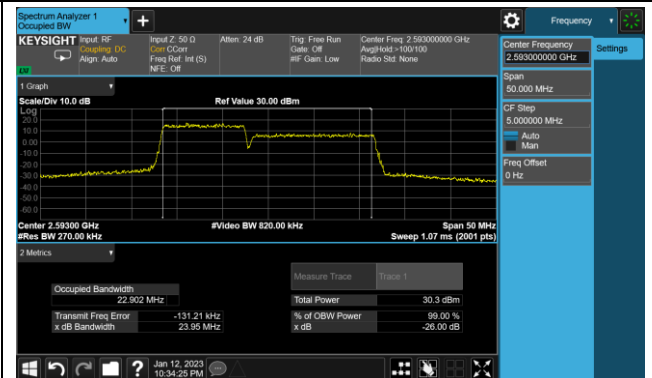
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
256QAM	2583.8 + 2595.5	5+20	22.577
	2585.9 + 2597.9	10+15	22.818
	2583.6 + 2598.0	10+20	27.453
	2588.1 + 2600.1	15+10	22.952
	2585.5 + 2600.5	15+15	28.077
	2583.3 + 2600.4	15+20	32.323
	2590.5 + 2602.2	20+5	22.734
	2588.1 + 2602.5	20+10	27.567
	2585.6 + 2602.7	20+15	32.416
	2583.1 + 2602.9	20+20	37.306

99% Bandwidth - QPSK

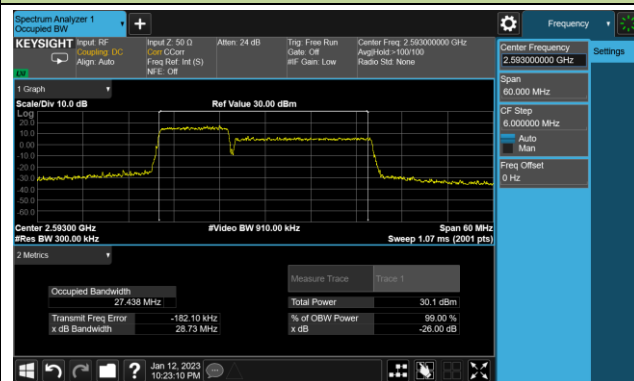
5+20MHz Channel Bandwidth



10+15MHz Channel Bandwidth



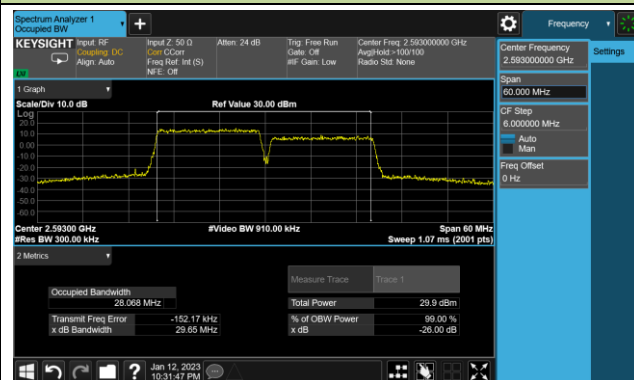
10+20MHz Channel Bandwidth



15+10MHz Channel Bandwidth



15+15MHz Channel Bandwidth



15+20MHz Channel Bandwidth

