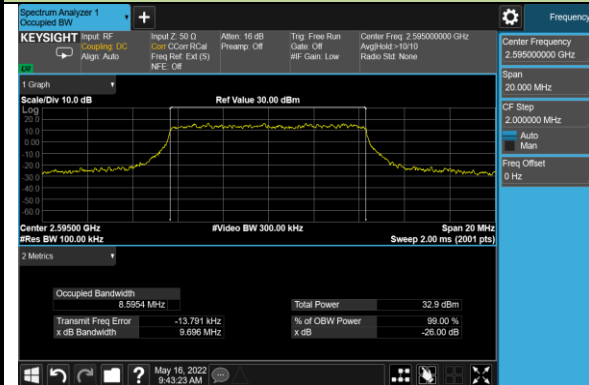
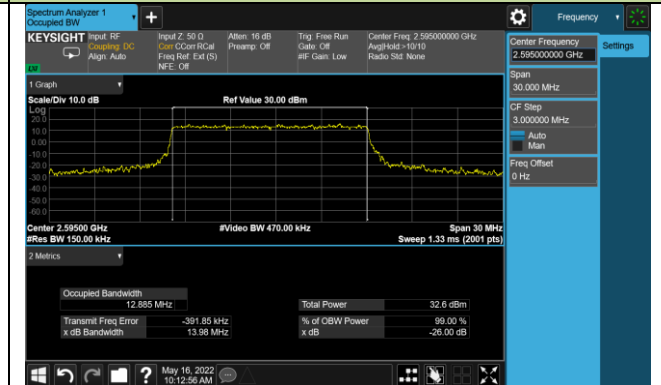


99% Bandwidth - QPSK

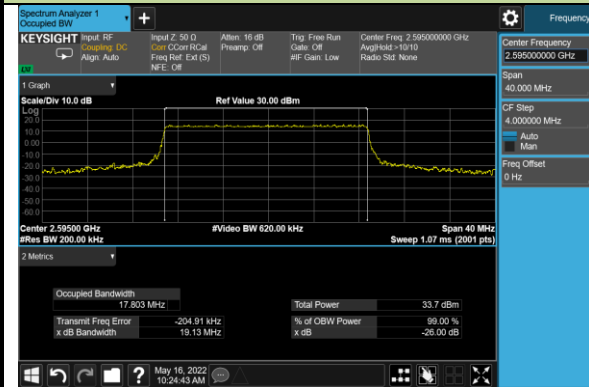
10MHz Channel Bandwidth



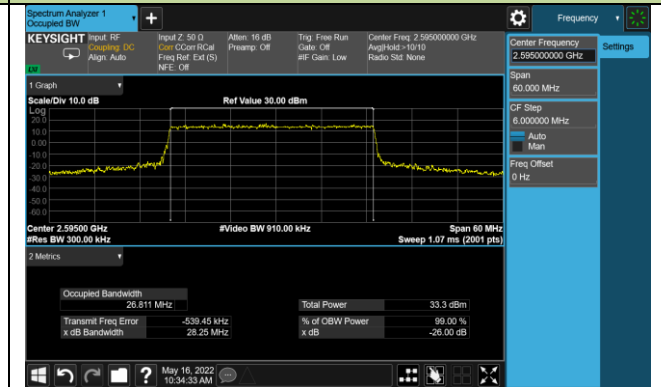
15MHz Channel Bandwidth



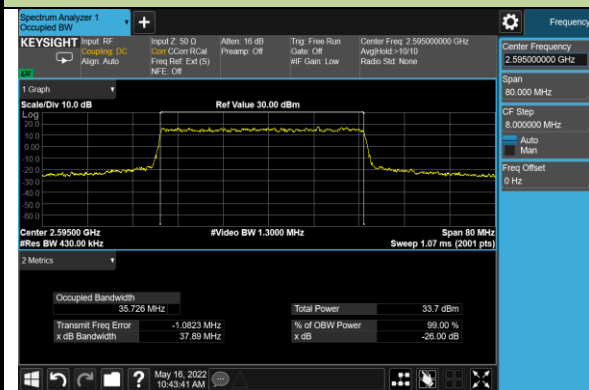
20MHz Channel Bandwidth



30MHz Channel Bandwidth

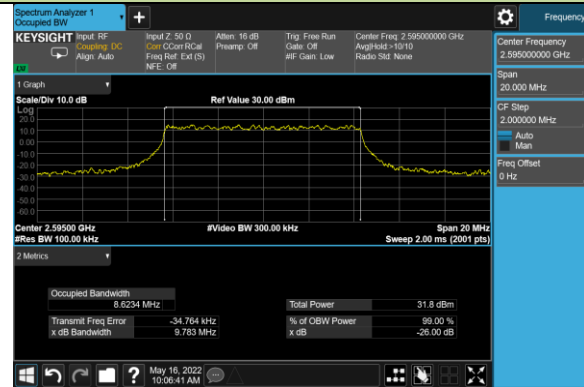


40MHz Channel Bandwidth



99% Bandwidth - 16QAM

10MHz Channel Bandwidth



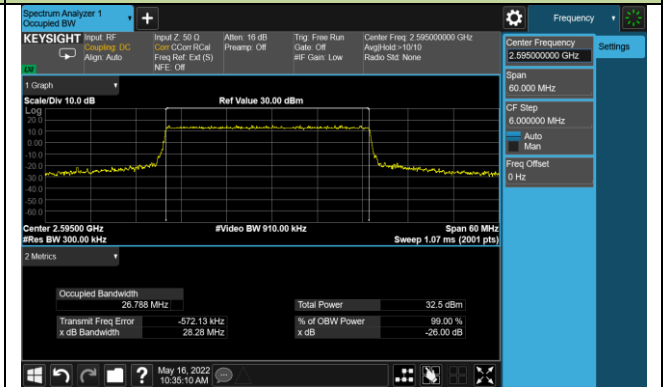
15MHz Channel Bandwidth



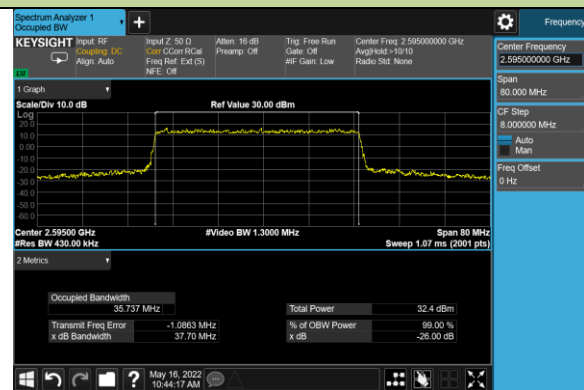
20MHz Channel Bandwidth



30MHz Channel Bandwidth

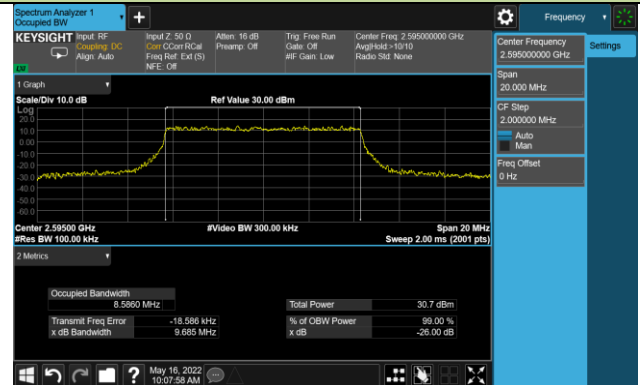


40MHz Channel Bandwidth

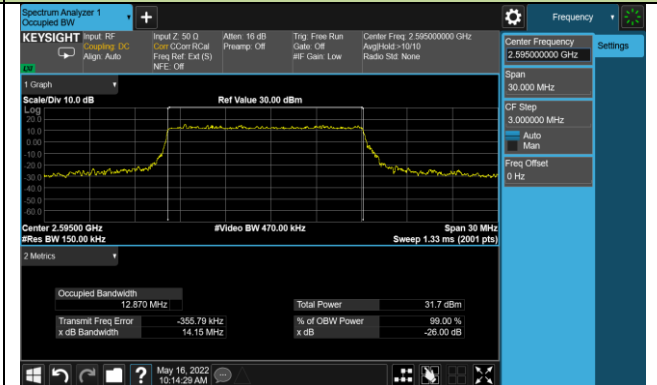


99% Bandwidth - 64QAM

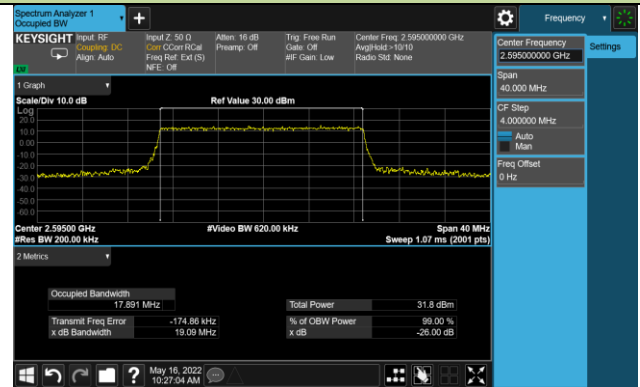
10MHz Channel Bandwidth



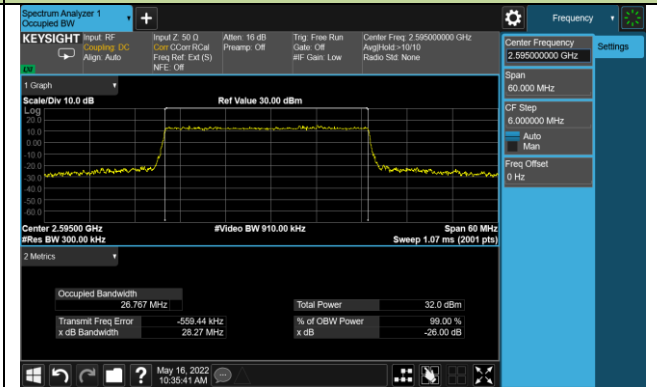
15MHz Channel Bandwidth



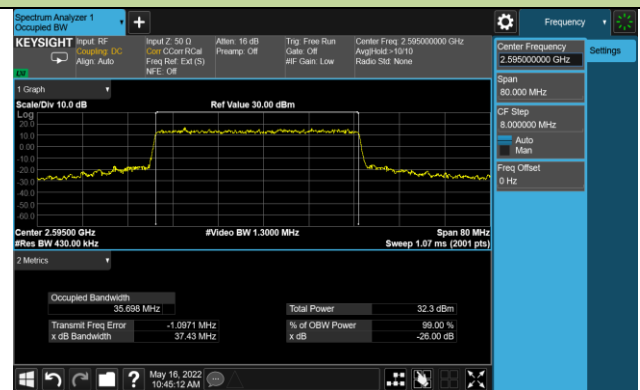
20MHz Channel Bandwidth



30MHz Channel Bandwidth

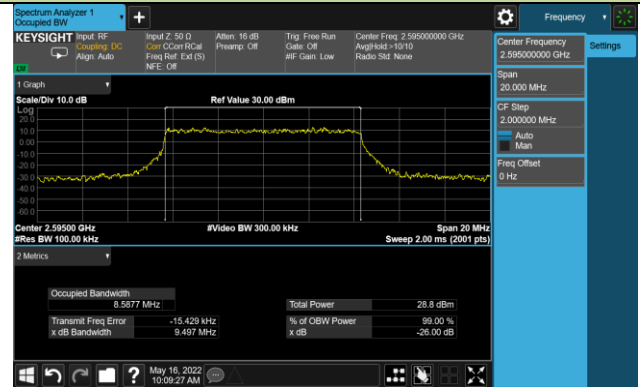


40MHz Channel Bandwidth

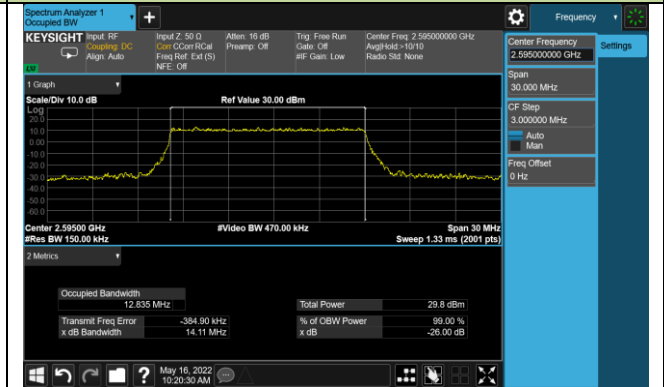


99% Bandwidth - 256QAM

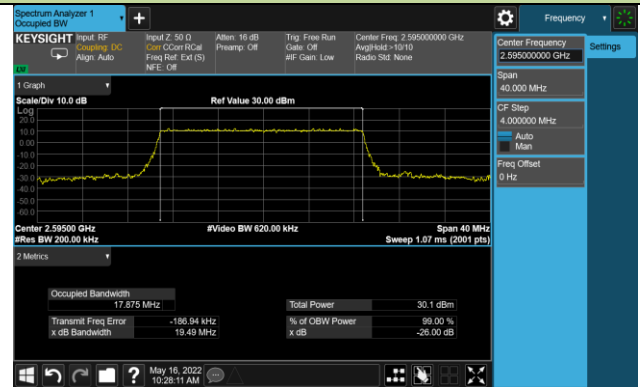
10MHz Channel Bandwidth



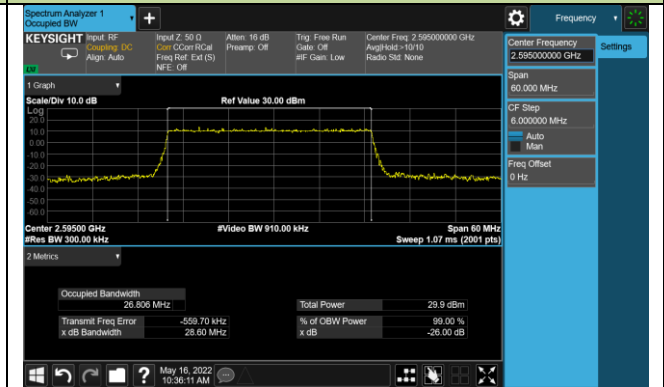
15MHz Channel Bandwidth



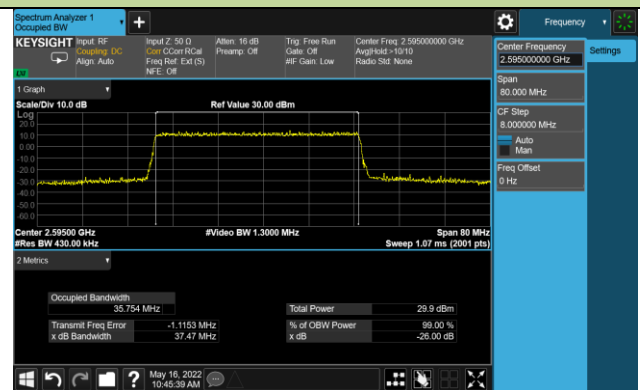
20MHz Channel Bandwidth



30MHz Channel Bandwidth



40MHz Channel Bandwidth



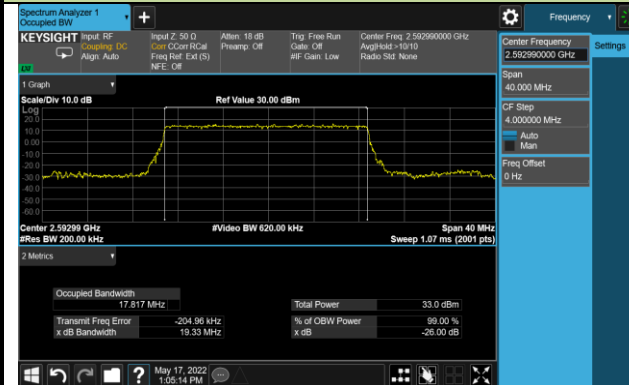
Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/17	Test Band	n41_HPUE

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
2592.99	20	17.82
2592.99	30	26.80
2592.99	40	35.71
2592.99	50	45.74
2592.99	60	57.81
2592.99	70	64.28
2592.99	80	76.91
2592.99	90	86.62
2592.99	100	96.24
QPSK		
2592.99	20	17.87
2592.99	30	26.81
2592.99	40	35.78
2592.99	50	45.83
2592.99	60	57.84
2592.99	70	64.13
2592.99	80	77.00
2592.99	90	86.60
2592.99	100	96.26
16QAM		
2592.99	20	17.90
2592.99	30	26.78
2592.99	40	35.76
2592.99	50	45.82
2592.99	60	57.75
2592.99	70	64.23
2592.99	80	77.08
2592.99	90	86.75
2592.99	100	96.38

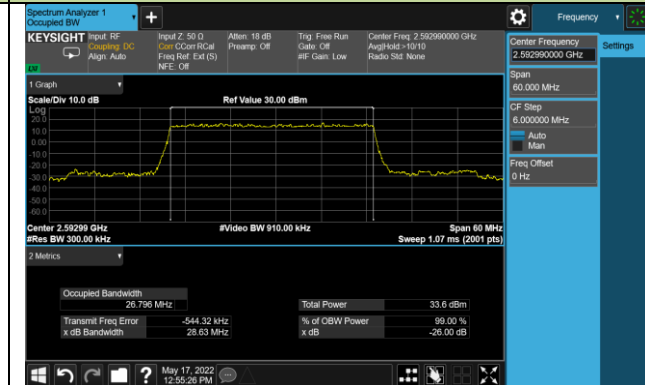
64QAM		
2592.99	20	17.90
2592.99	30	26.77
2592.99	40	35.70
2592.99	50	45.75
2592.99	60	57.72
2592.99	70	64.17
2592.99	80	77.07
2592.99	90	86.71
2592.99	100	96.16
256QAM		
2592.99	20	17.86
2592.99	30	26.80
2592.99	40	35.72
2592.99	50	45.68
2592.99	60	57.74
2592.99	70	64.13
2592.99	80	76.94
2592.99	90	86.43
2592.99	100	96.16

99% Bandwidth - PI/2 BPSK

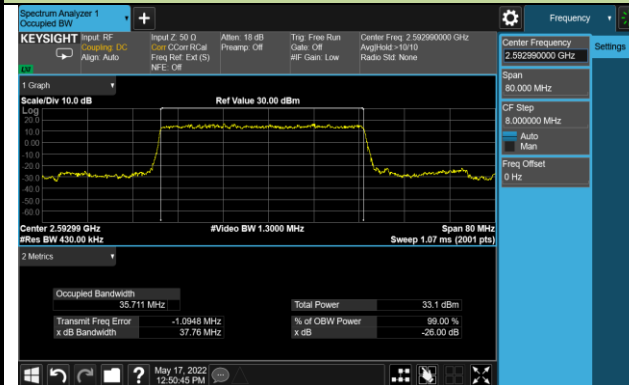
20MHz Channel Bandwidth



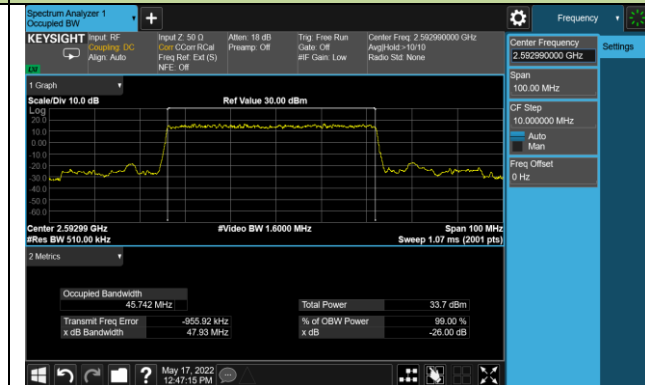
30MHz Channel Bandwidth



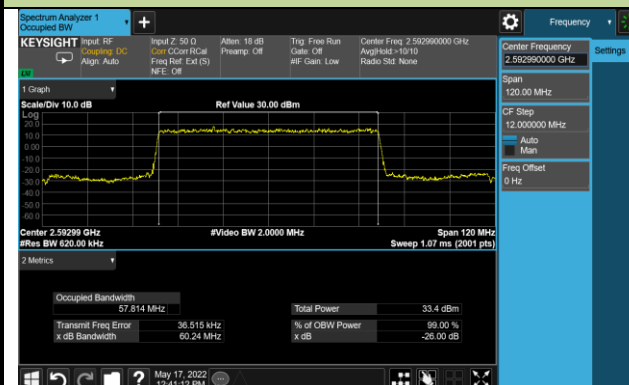
40MHz Channel Bandwidth



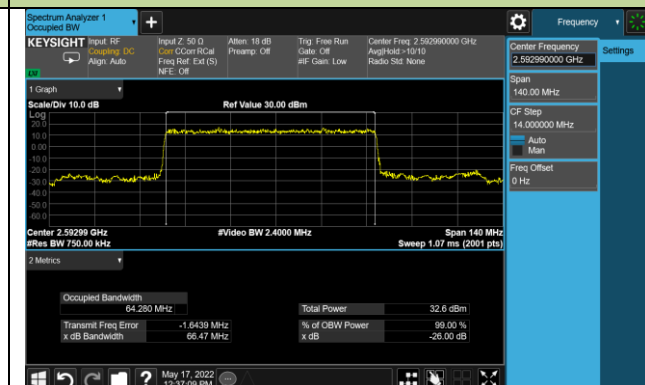
50MHz Channel Bandwidth



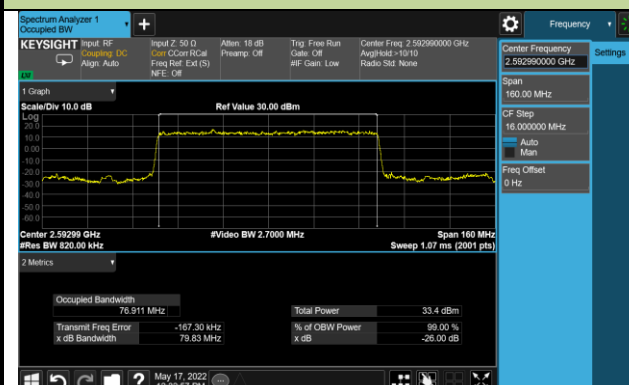
60MHz Channel Bandwidth



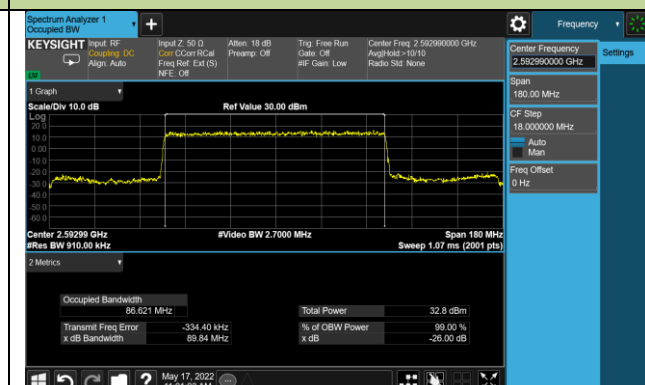
70MHz Channel Bandwidth

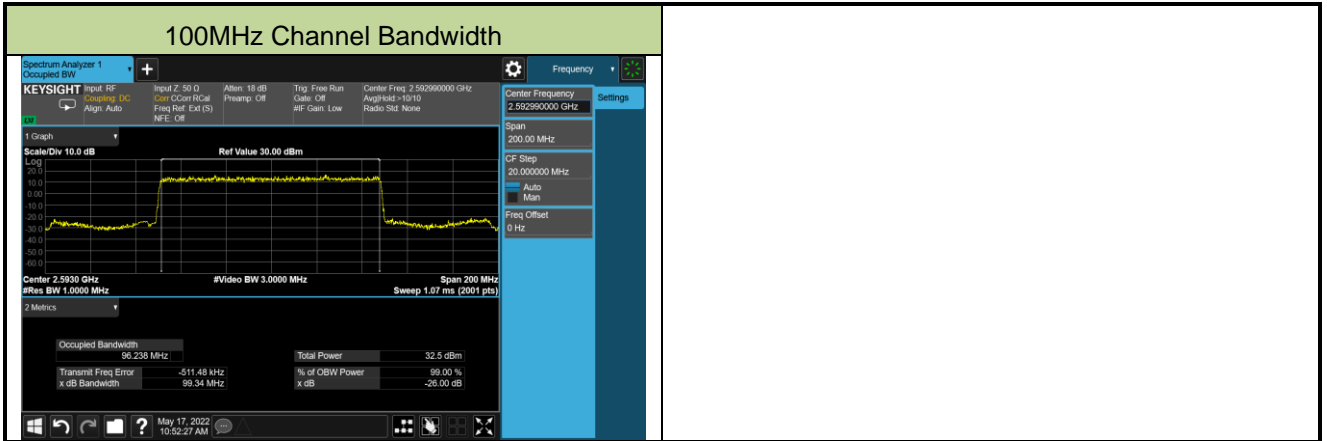


80MHz Channel Bandwidth



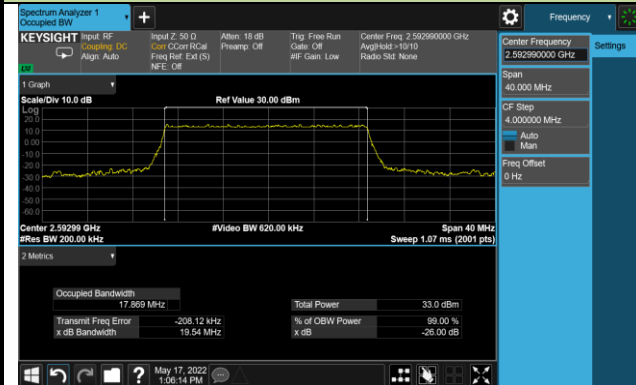
90MHz Channel Bandwidth



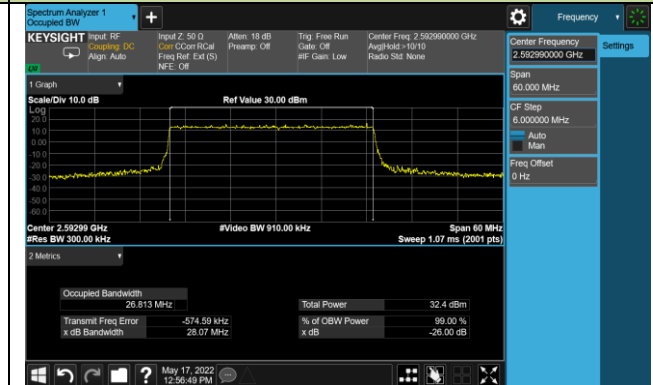


99% Bandwidth - QPSK

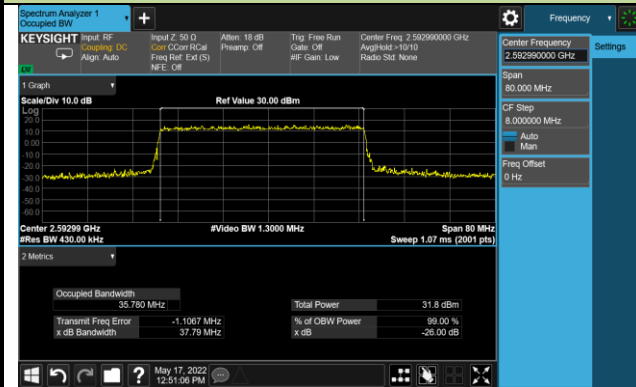
20MHz Channel Bandwidth



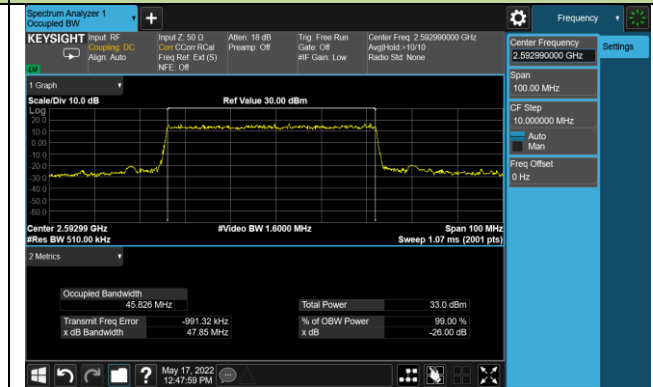
30MHz Channel Bandwidth



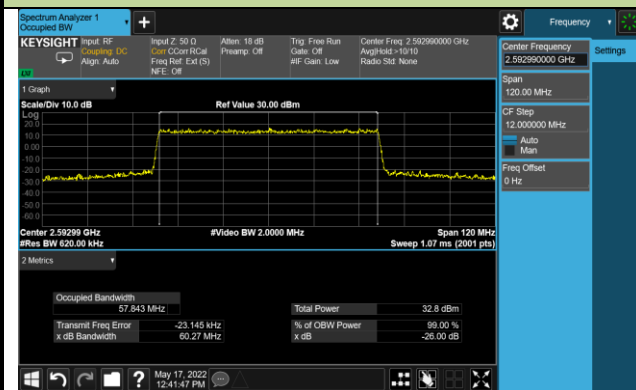
40MHz Channel Bandwidth



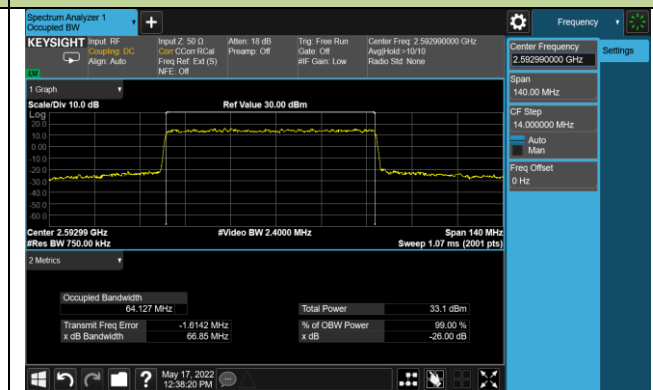
50MHz Channel Bandwidth



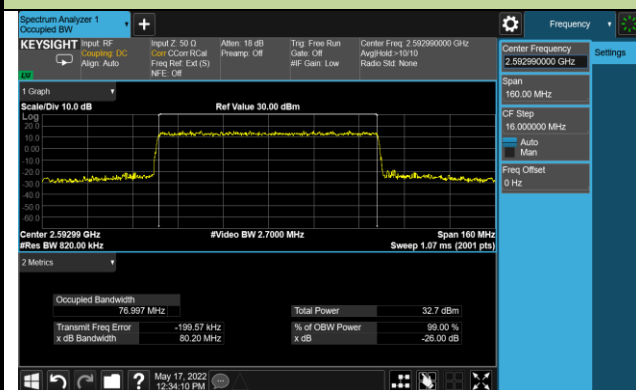
60MHz Channel Bandwidth



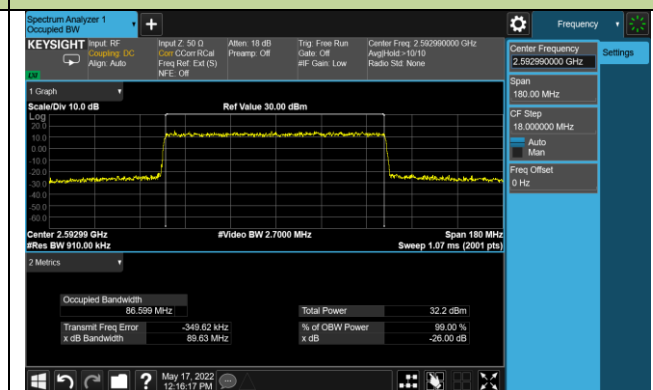
70MHz Channel Bandwidth



80MHz Channel Bandwidth



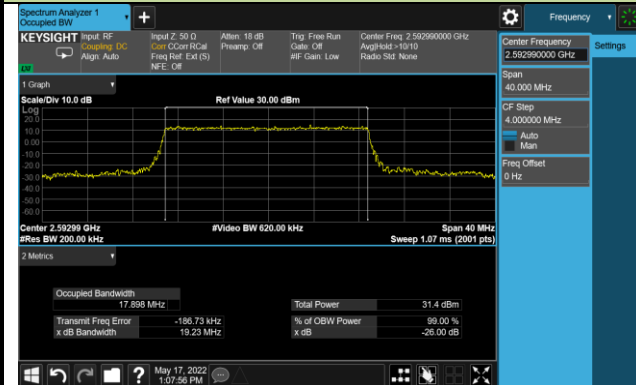
90MHz Channel Bandwidth



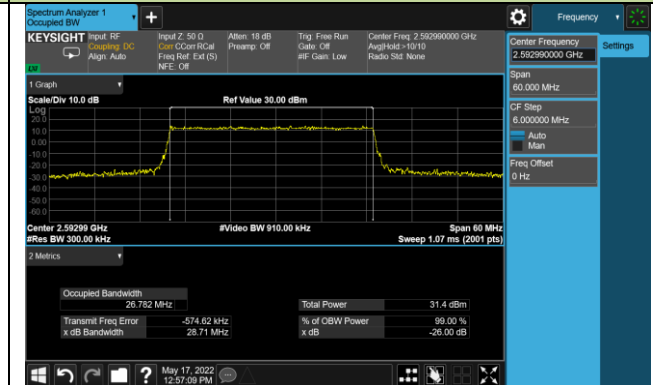


99% Bandwidth - 16QAM

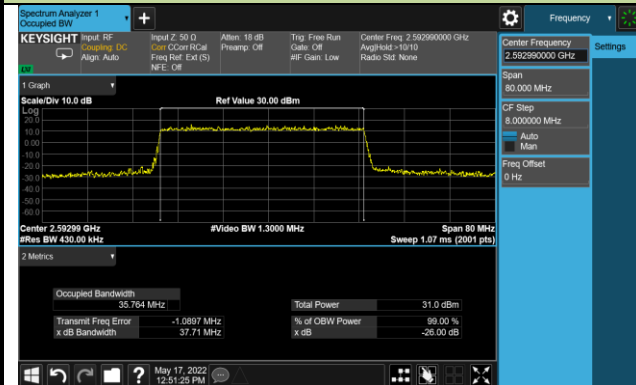
20MHz Channel Bandwidth



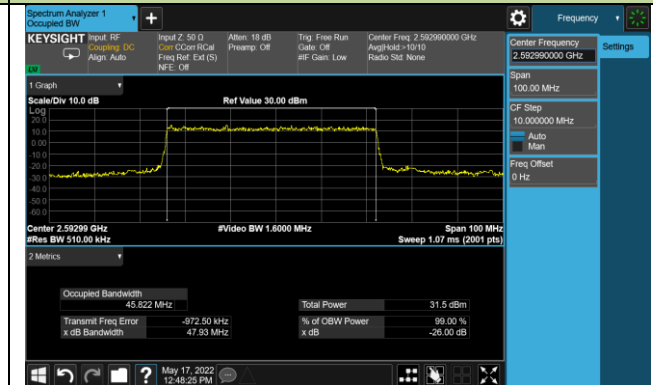
30MHz Channel Bandwidth



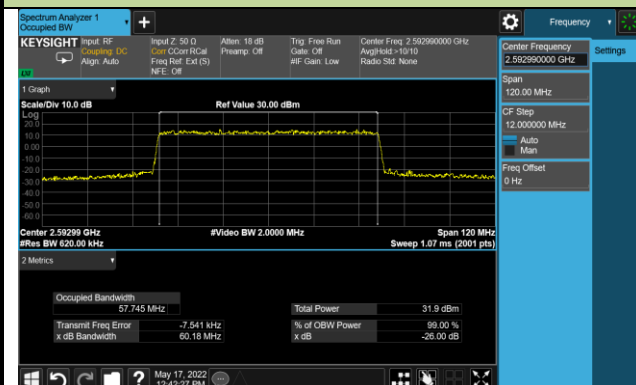
40MHz Channel Bandwidth



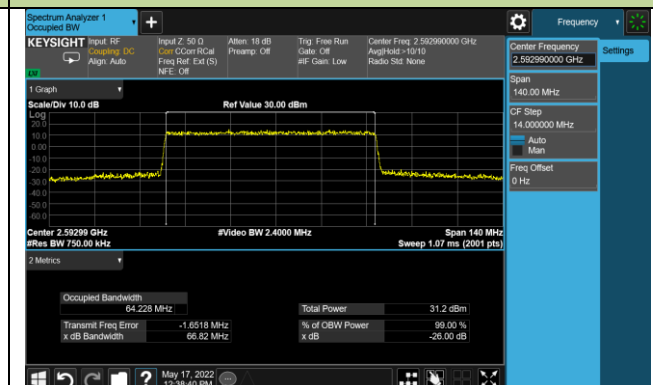
50MHz Channel Bandwidth



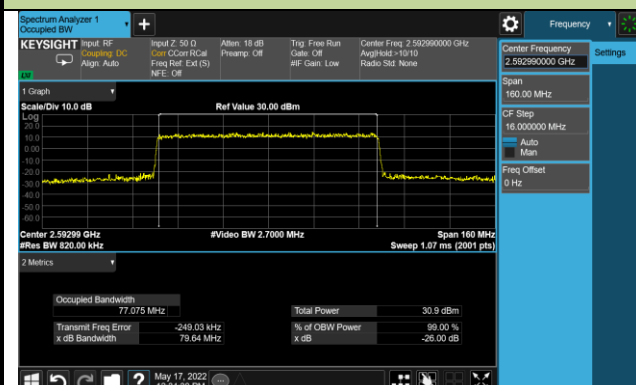
60MHz Channel Bandwidth



70MHz Channel Bandwidth

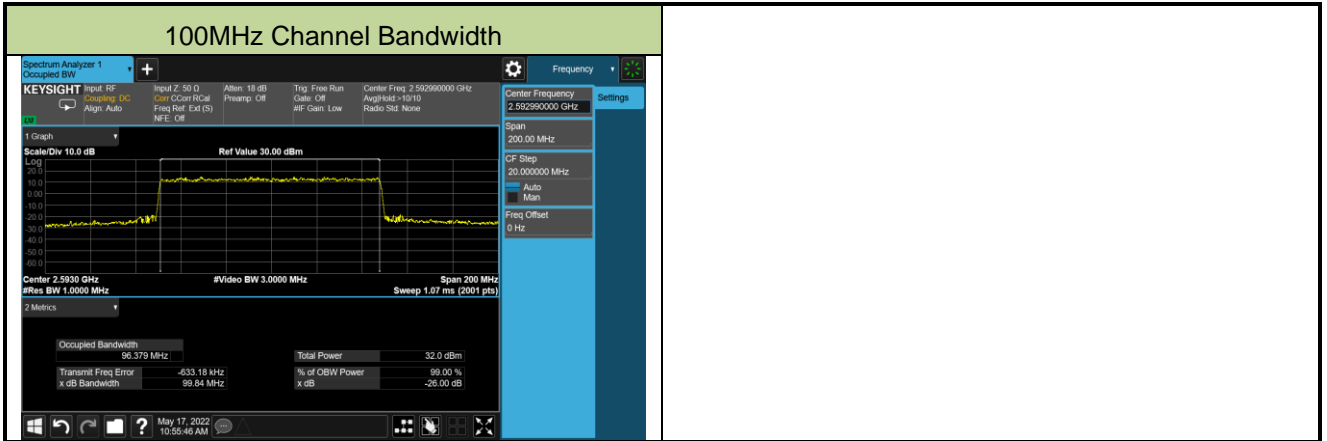


80MHz Channel Bandwidth



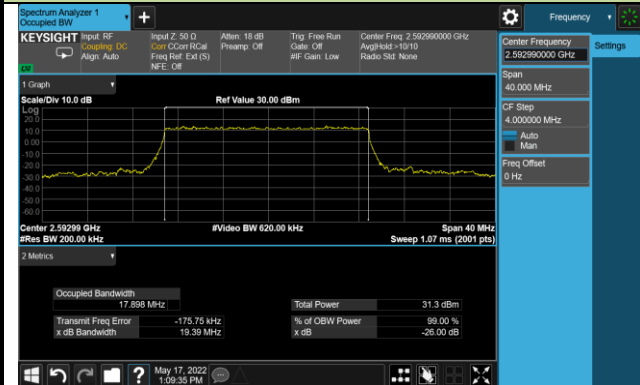
90MHz Channel Bandwidth



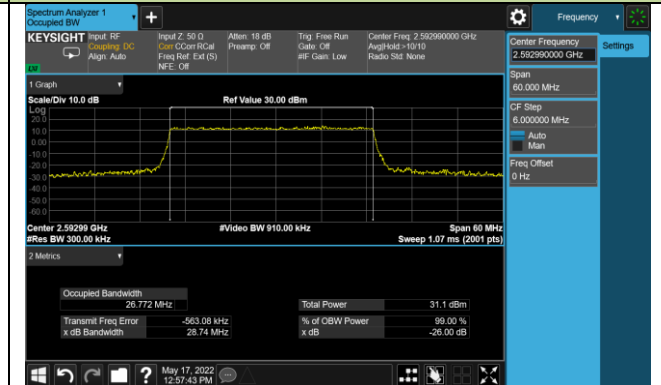


99% Bandwidth - 64QAM

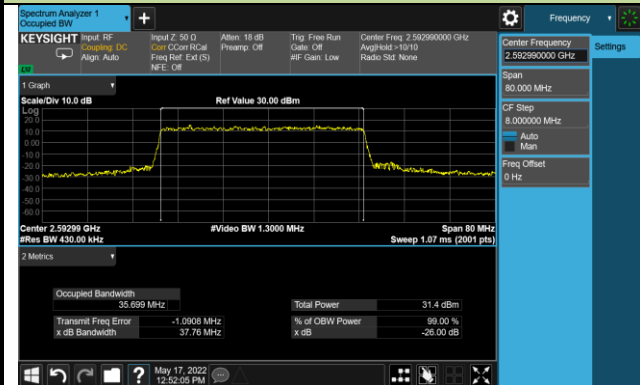
20MHz Channel Bandwidth



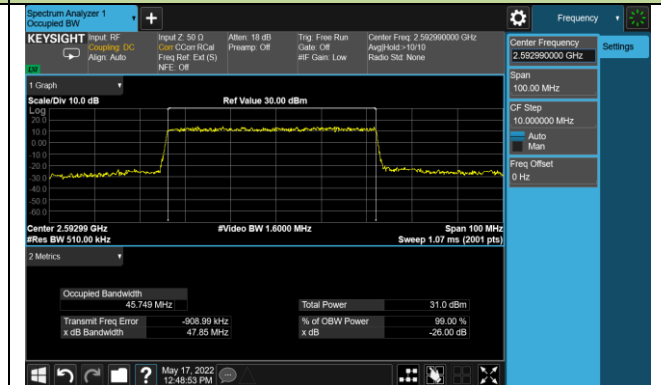
30MHz Channel Bandwidth



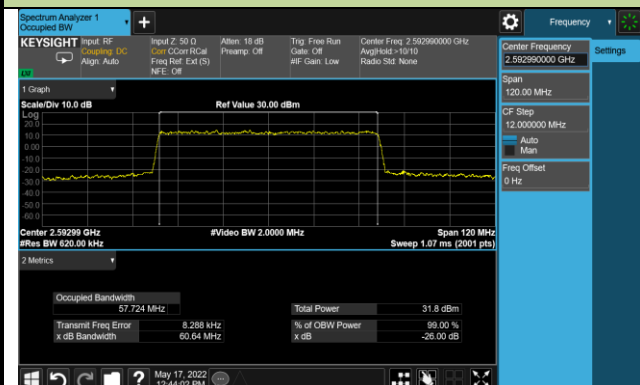
40MHz Channel Bandwidth



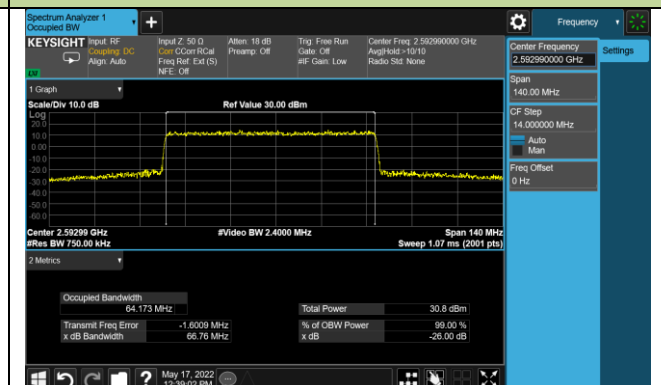
50MHz Channel Bandwidth



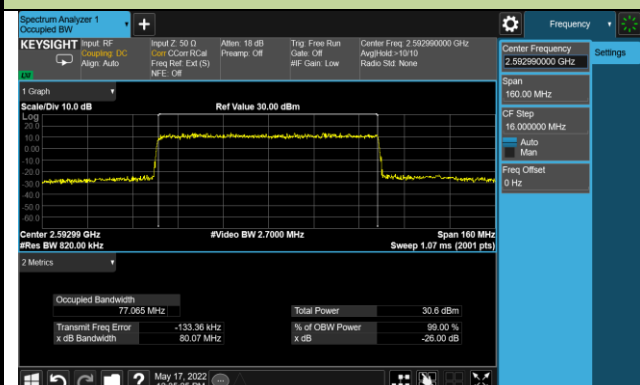
60MHz Channel Bandwidth



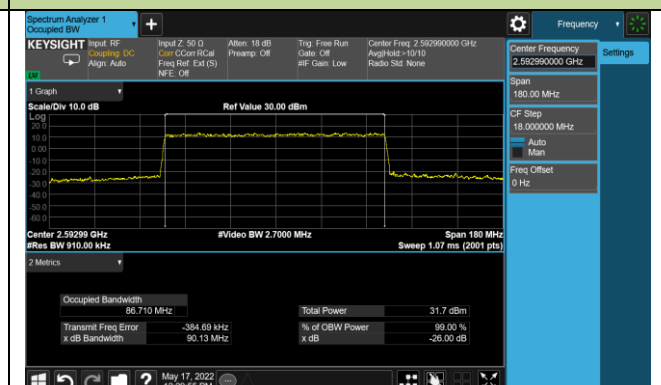
70MHz Channel Bandwidth

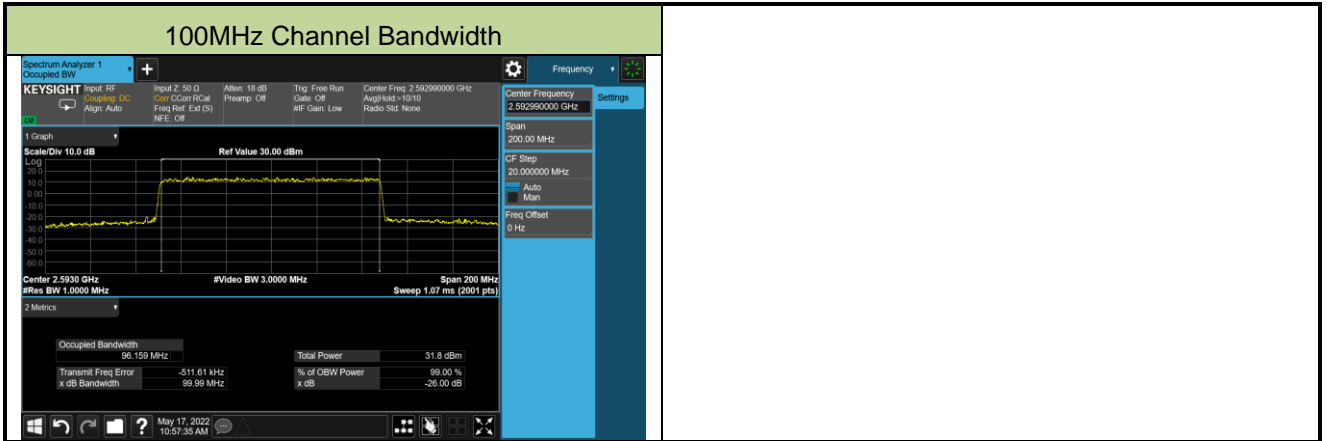


80MHz Channel Bandwidth



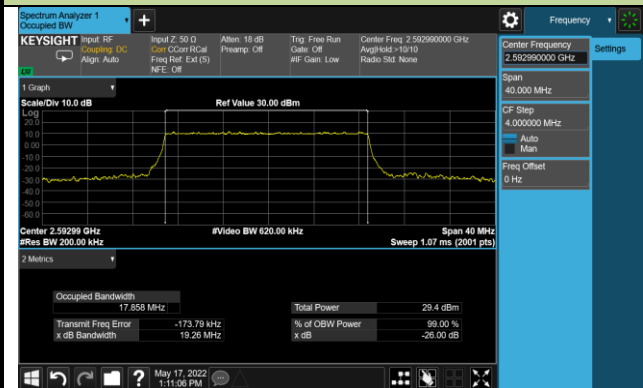
90MHz Channel Bandwidth



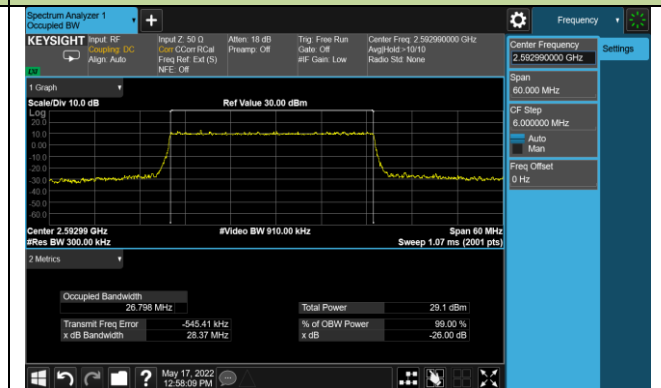


99% Bandwidth - 256QAM

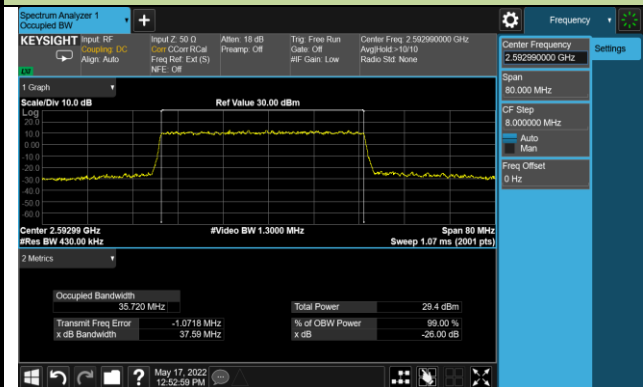
20MHz Channel Bandwidth



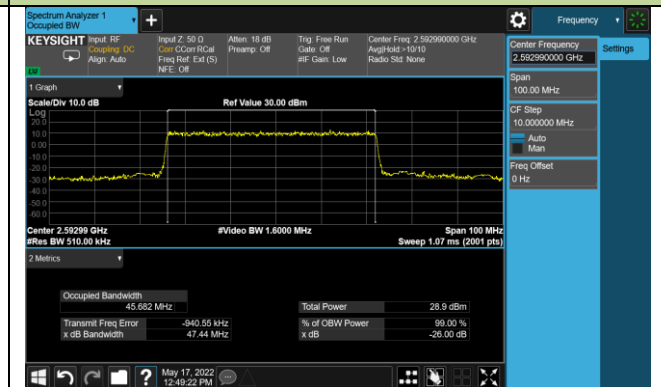
30MHz Channel Bandwidth



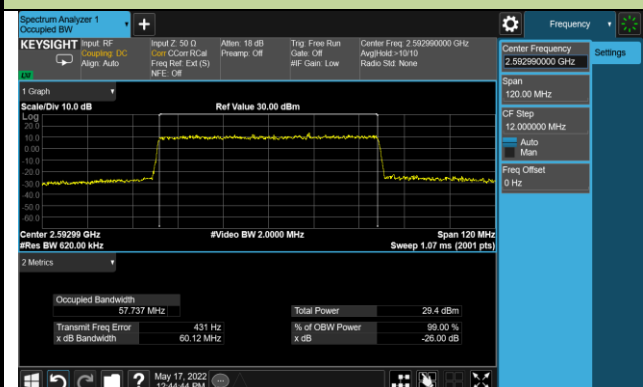
40MHz Channel Bandwidth



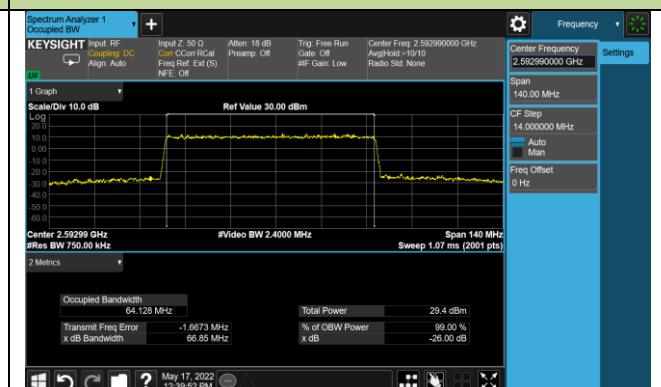
50MHz Channel Bandwidth



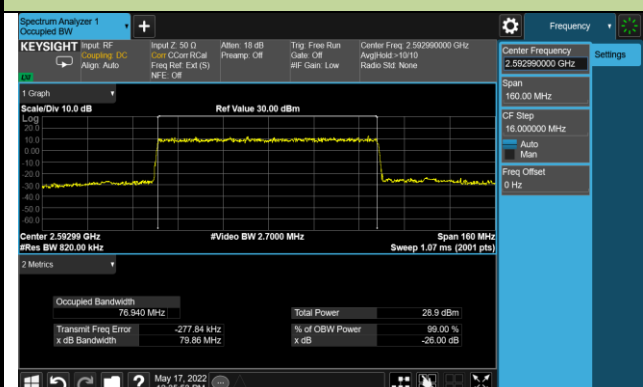
60MHz Channel Bandwidth



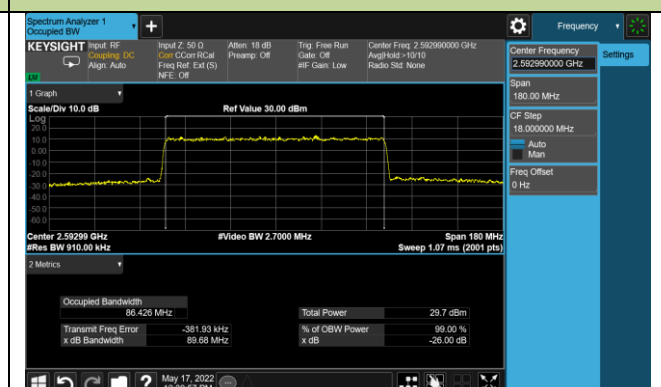
70MHz Channel Bandwidth

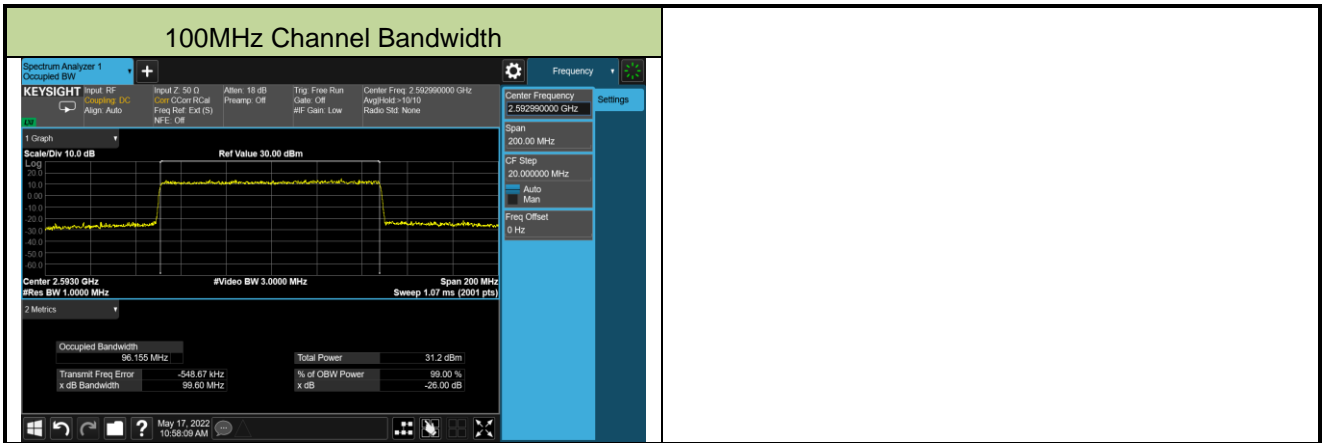


80MHz Channel Bandwidth



90MHz Channel Bandwidth





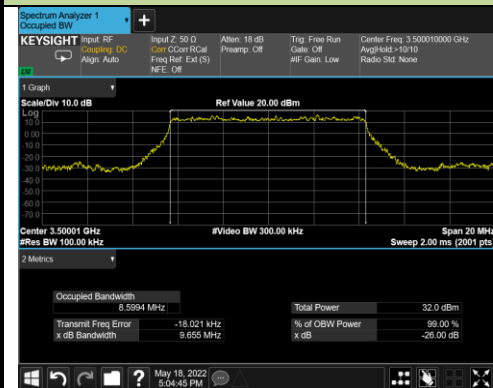
Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/18	Test Band	n77/n78_HPUE (3450 ~ 3550MHz)

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
PI/2 BPSK		
3500.01	10	8.60
3500.01	15	12.87
3500.01	20	17.80
3500.01	30	26.78
3500.01	40	35.74
3500.01	50	45.71
3500.01	60	57.81
3500.01	70	64.21
3500.01	80	76.99
3500.01	90	86.55
3500.01	100	96.31
QPSK		
3500.01	10	8.57
3500.01	15	12.83
3500.01	20	17.89
3500.01	30	26.80
3500.01	40	35.69
3500.01	50	45.73
3500.01	60	57.86
3500.01	70	64.21
3500.01	80	77.09
3500.01	90	86.63
3500.01	100	96.20

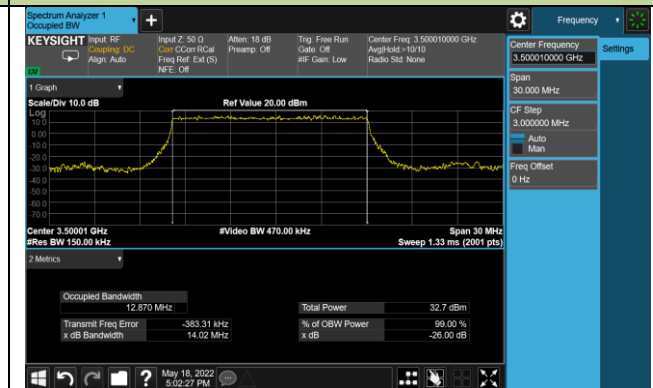
16QAM		
3500.01	10	8.62
3500.01	15	12.90
3500.01	20	17.86
3500.01	30	26.78
3500.01	40	35.76
3500.01	50	45.64
3500.01	60	57.74
3500.01	70	64.33
3500.01	80	71.20
3500.01	90	86.61
3500.01	100	96.23
64QAM		
3500.01	10	8.57
3500.01	15	12.87
3500.01	20	17.87
3500.01	30	26.76
3500.01	40	35.69
3500.01	50	45.68
3500.01	60	57.78
3500.01	70	64.23
3500.01	80	77.03
3500.01	90	86.74
3500.01	100	96.44
256QAM		
3500.01	10	8.60
3500.01	15	12.83
3500.01	20	17.83
3500.01	30	26.80
3500.01	40	35.68
3500.01	50	45.67
3500.01	60	57.77
3500.01	70	64.26
3500.01	80	77.01
3500.01	90	86.69
3500.01	100	96.22

99% Bandwidth - PI/2 BPSK

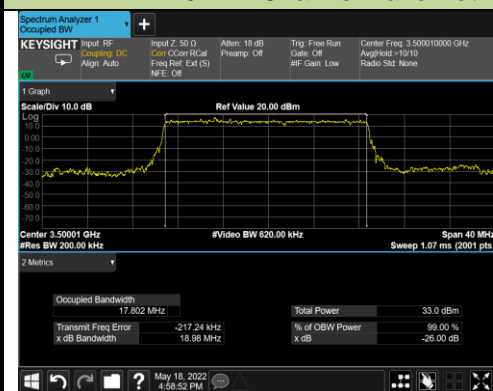
10MHz Channel Bandwidth



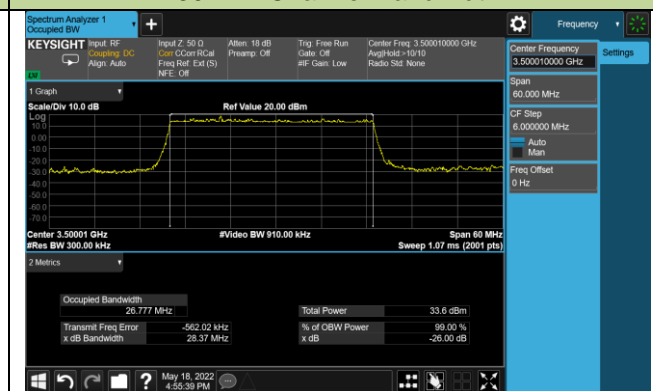
15MHz Channel Bandwidth



20MHz Channel Bandwidth



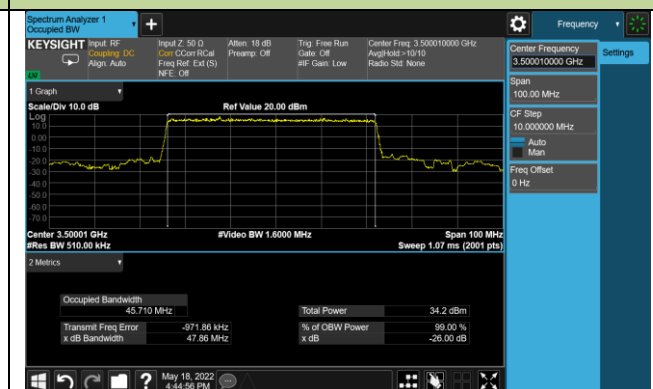
30MHz Channel Bandwidth



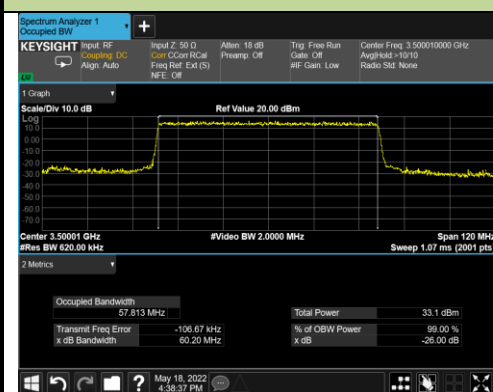
40MHz Channel Bandwidth



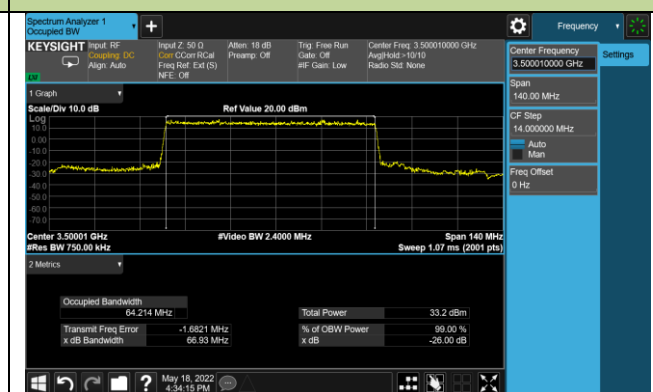
50MHz Channel Bandwidth

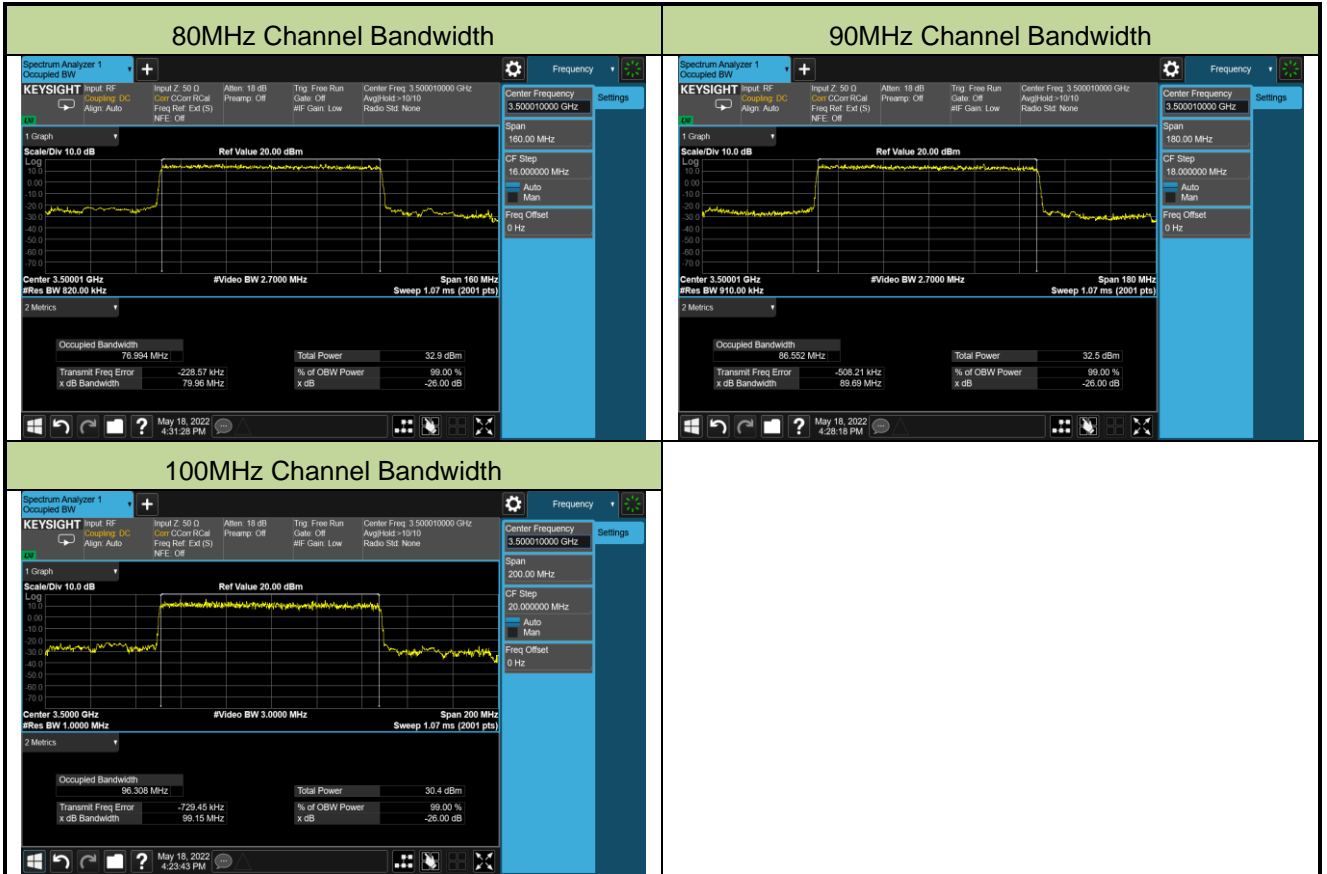


60MHz Channel Bandwidth



70MHz Channel Bandwidth



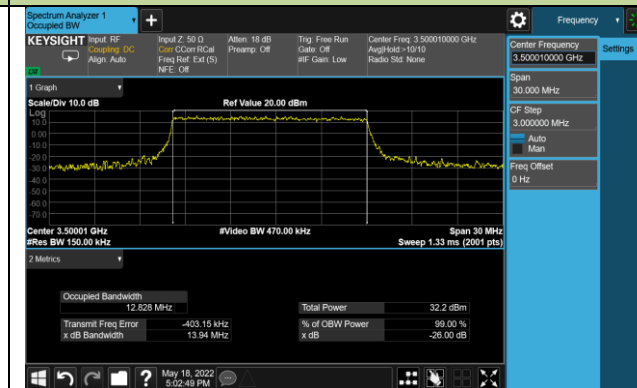


99% Bandwidth - QPSK

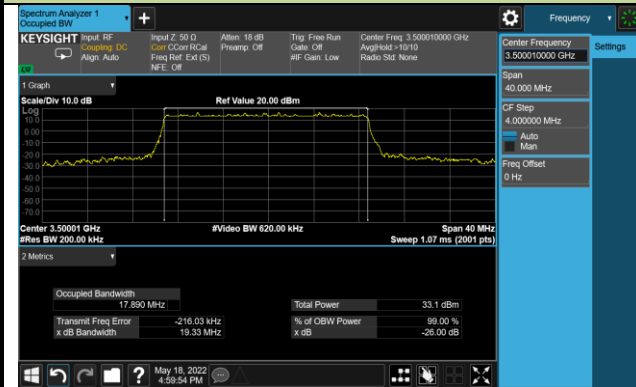
10MHz Channel Bandwidth



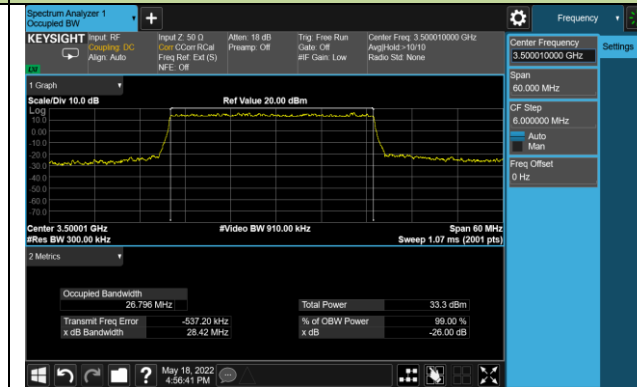
15MHz Channel Bandwidth



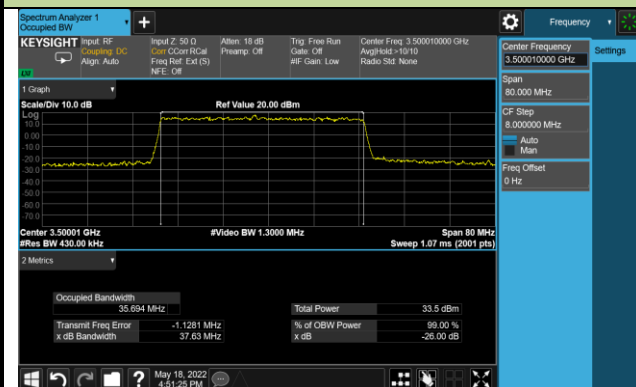
20MHz Channel Bandwidth



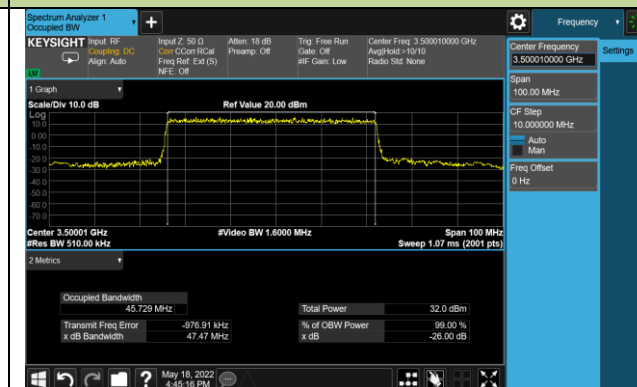
30MHz Channel Bandwidth



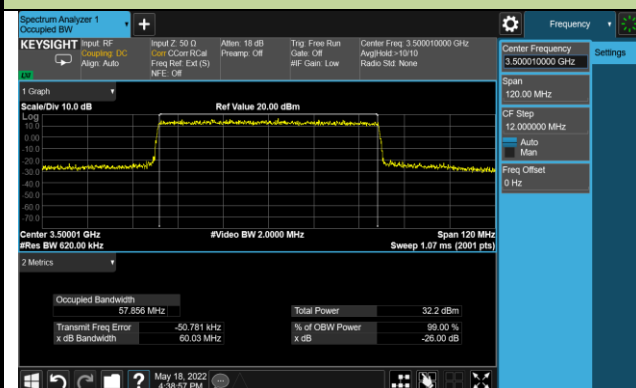
40MHz Channel Bandwidth



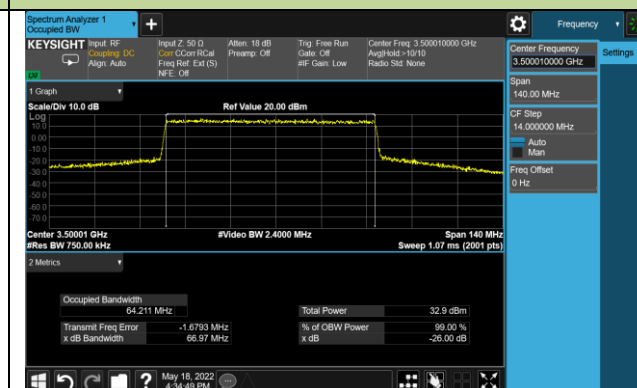
50MHz Channel Bandwidth

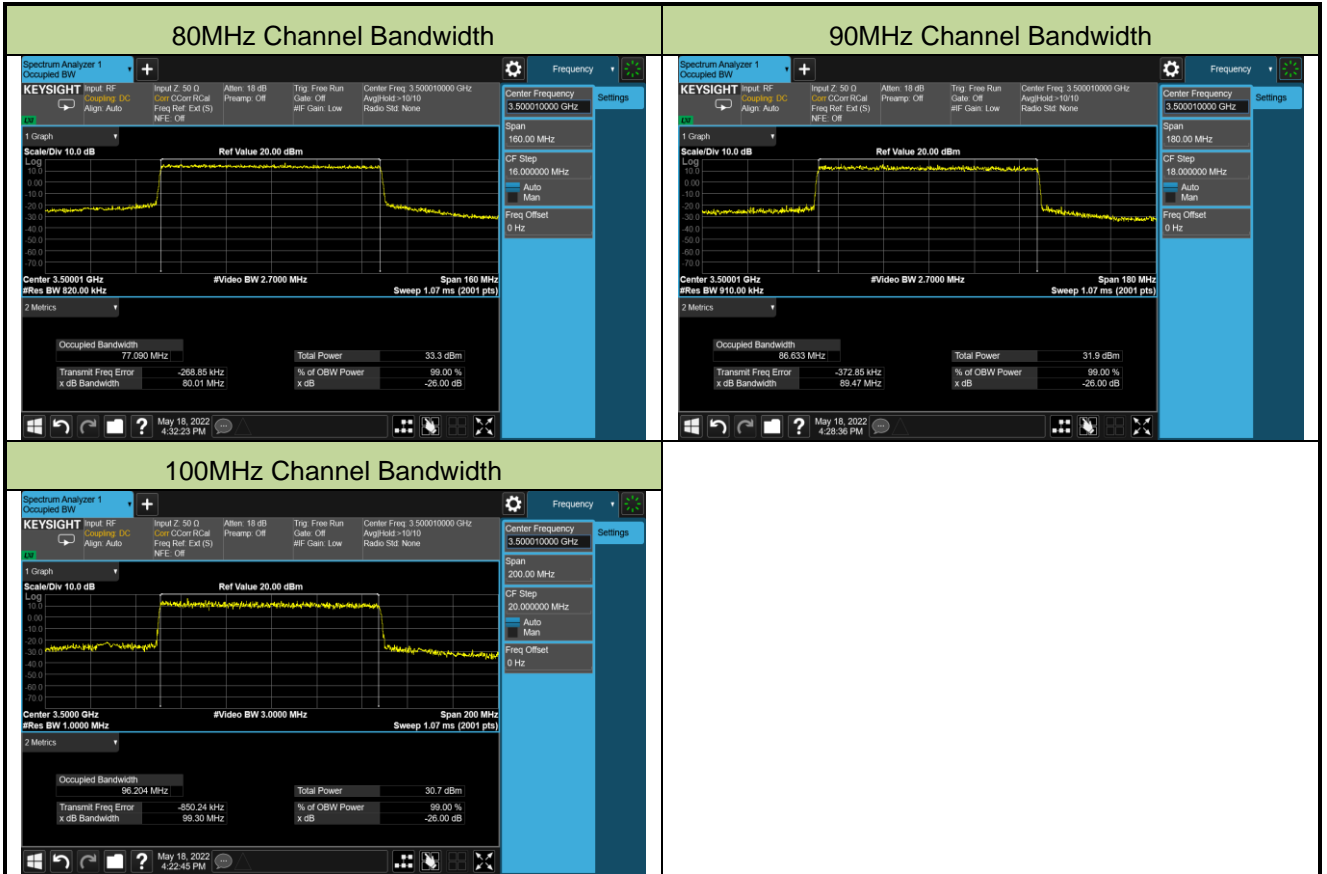


60MHz Channel Bandwidth



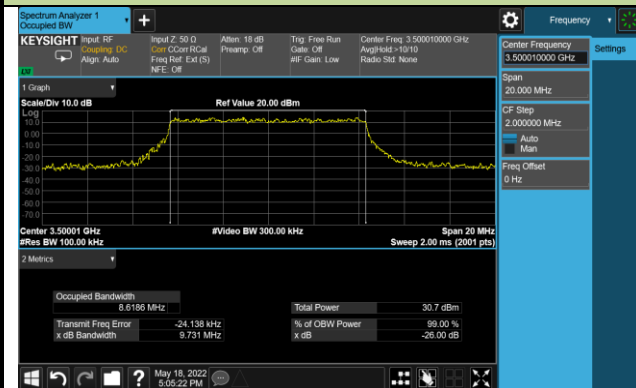
70MHz Channel Bandwidth



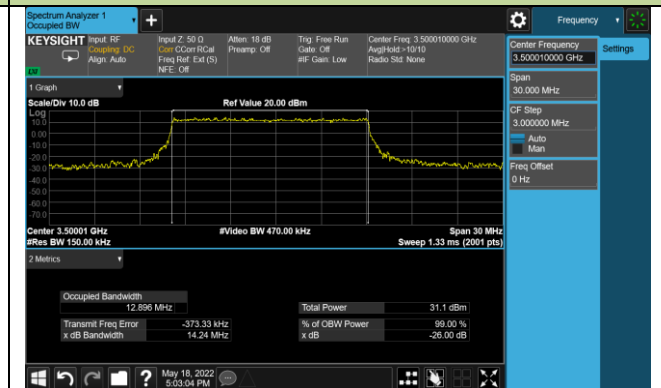


99% Bandwidth - 16QAM

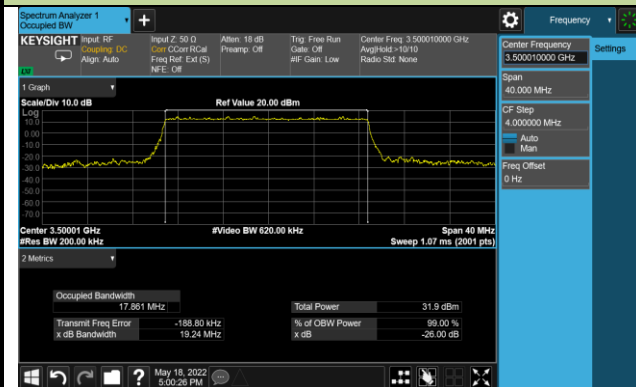
10MHz Channel Bandwidth



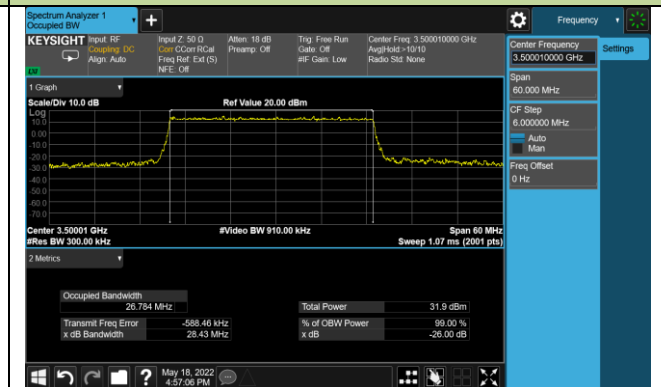
15MHz Channel Bandwidth



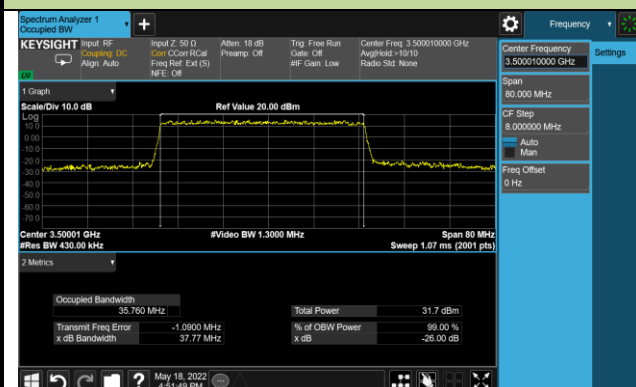
20MHz Channel Bandwidth



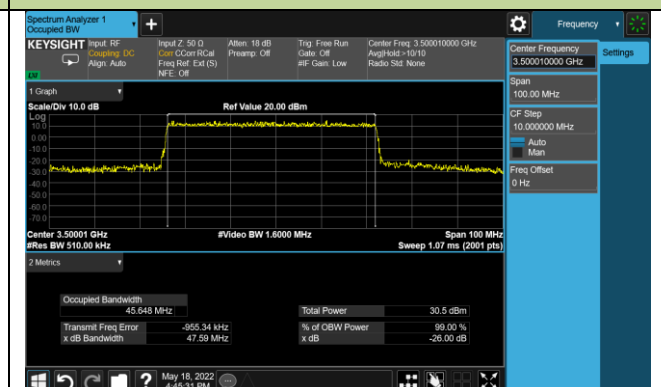
30MHz Channel Bandwidth



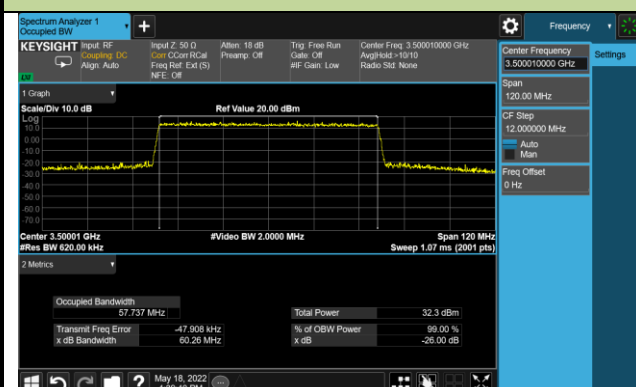
40MHz Channel Bandwidth



50MHz Channel Bandwidth



60MHz Channel Bandwidth



70MHz Channel Bandwidth

