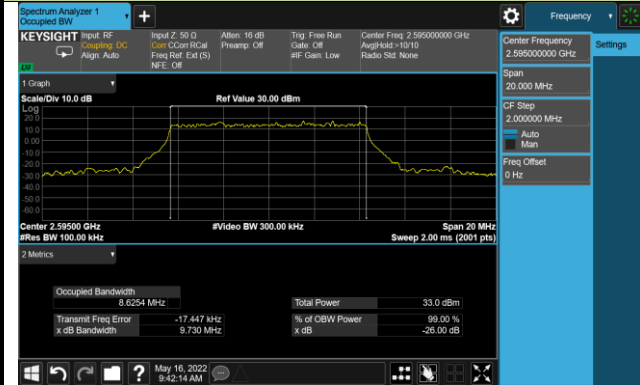
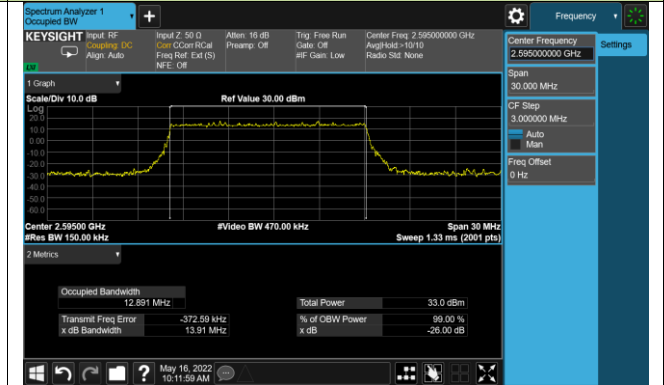


99% Bandwidth - PI/2 BPSK

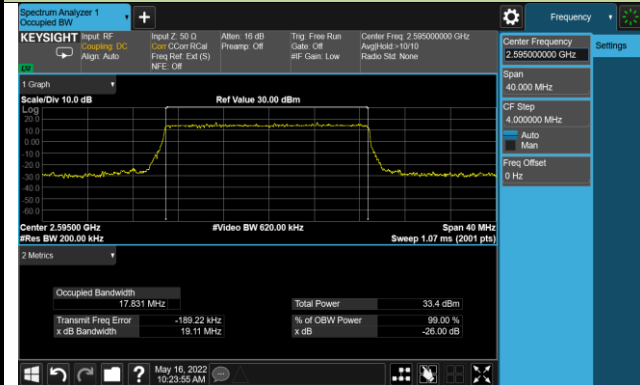
10MHz Channel Bandwidth



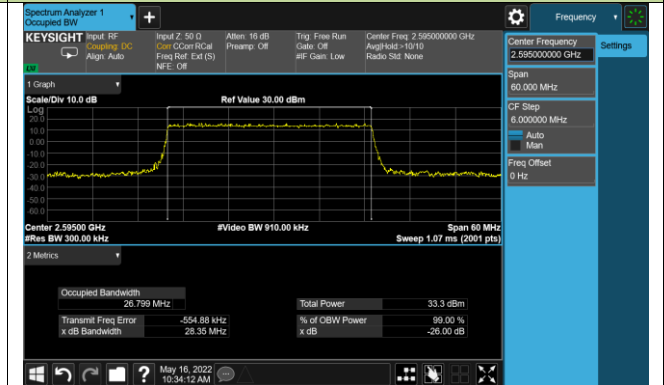
15MHz Channel Bandwidth



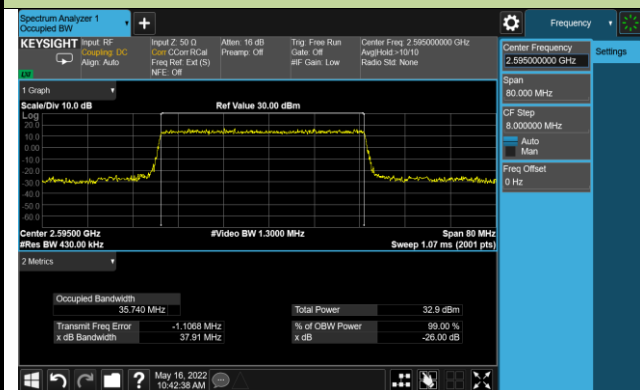
20MHz Channel Bandwidth



30MHz Channel Bandwidth

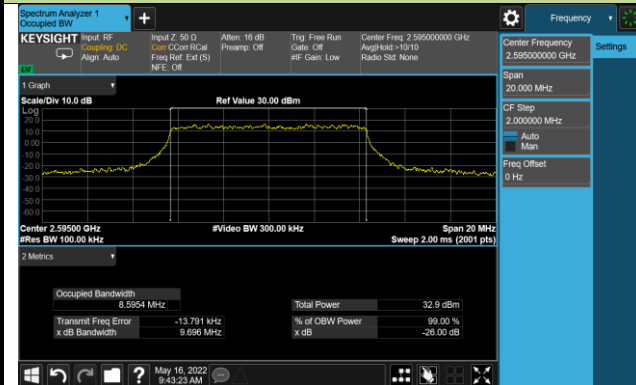


40MHz Channel Bandwidth

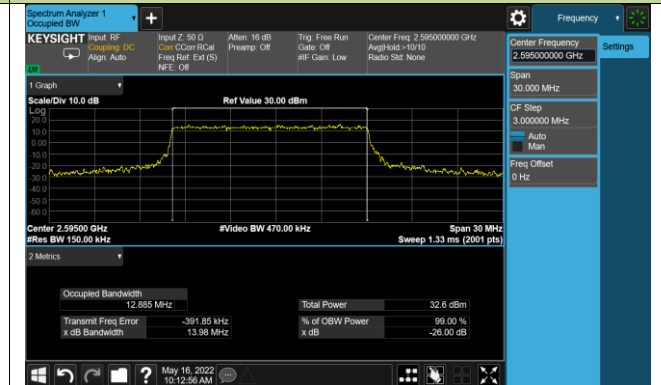


## 99% Bandwidth - QPSK

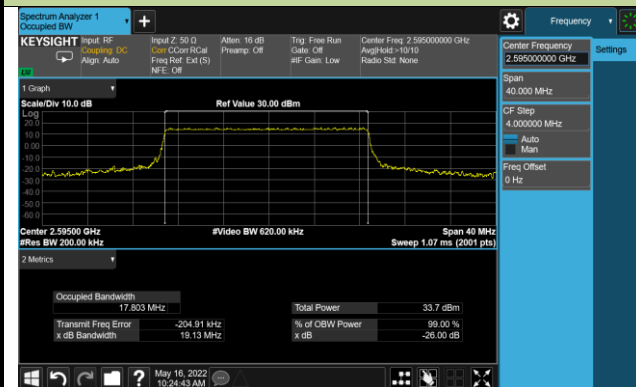
## 10MHz Channel Bandwidth



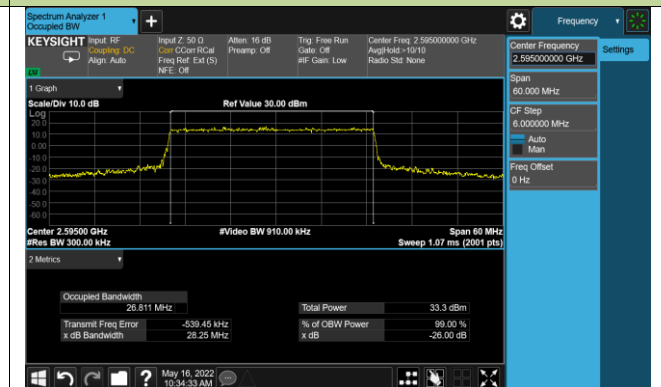
## 15MHz Channel Bandwidth



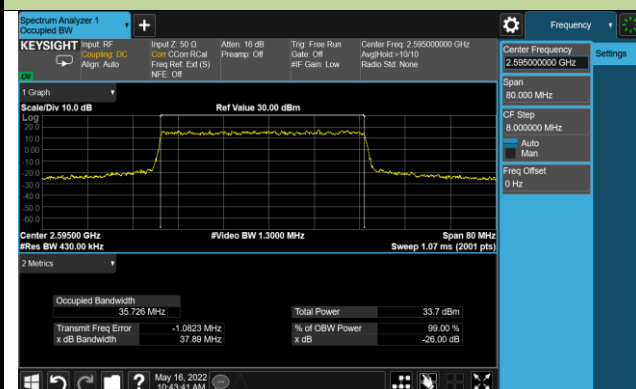
## 20MHz Channel Bandwidth



## 30MHz Channel Bandwidth

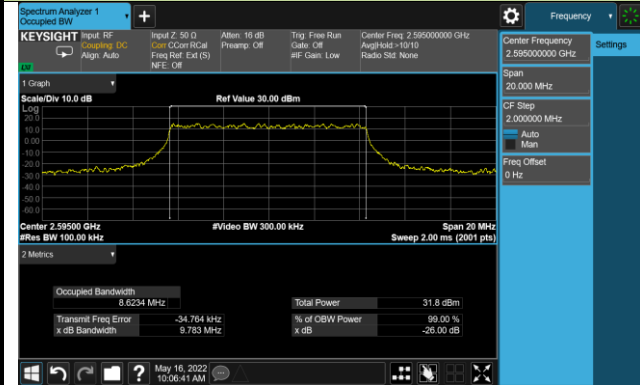


## 40MHz Channel Bandwidth

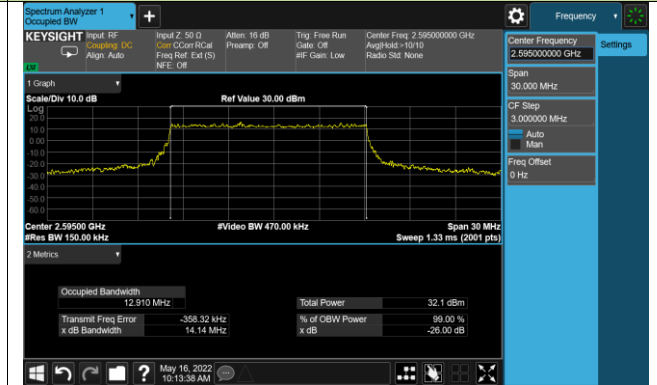


99% Bandwidth - 16QAM

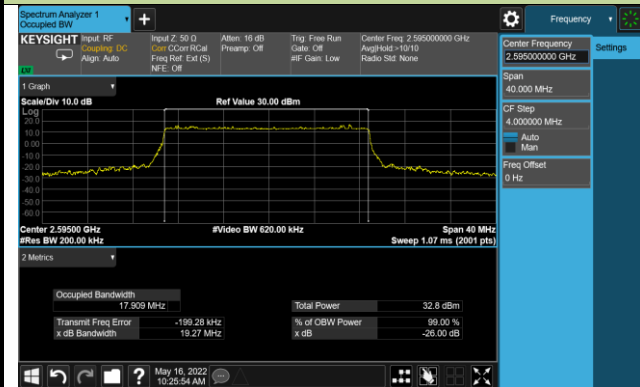
10MHz Channel Bandwidth



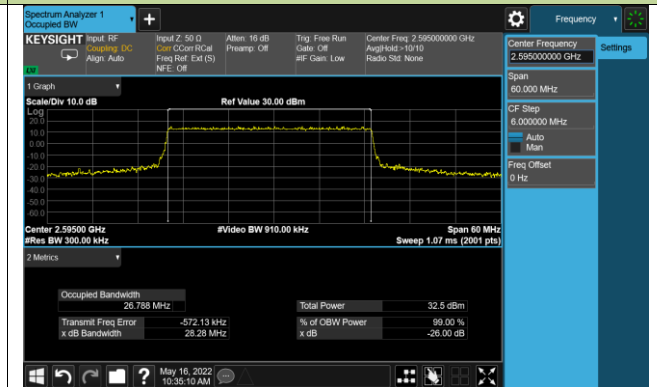
15MHz Channel Bandwidth



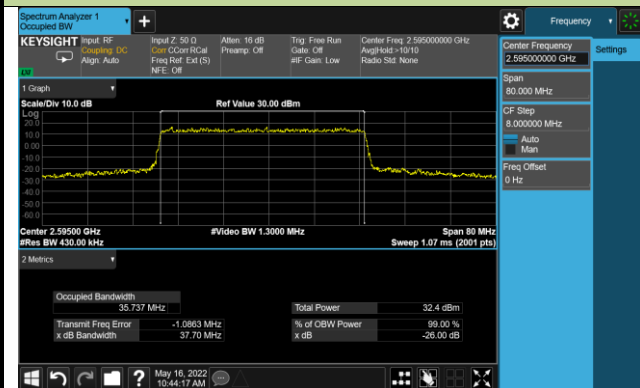
20MHz Channel Bandwidth



30MHz Channel Bandwidth

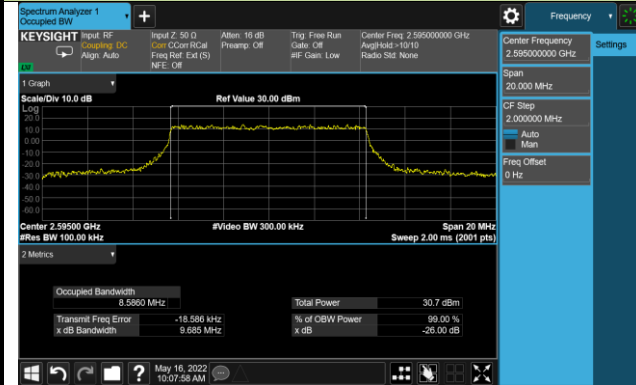


40MHz Channel Bandwidth

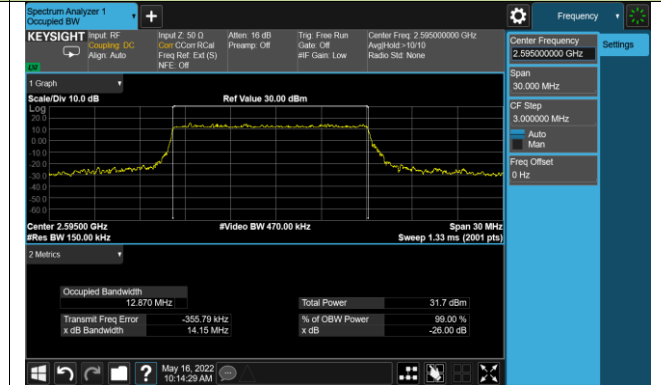


99% Bandwidth - 64QAM

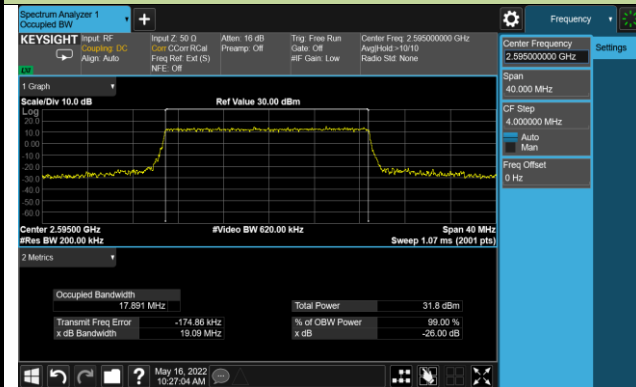
10MHz Channel Bandwidth



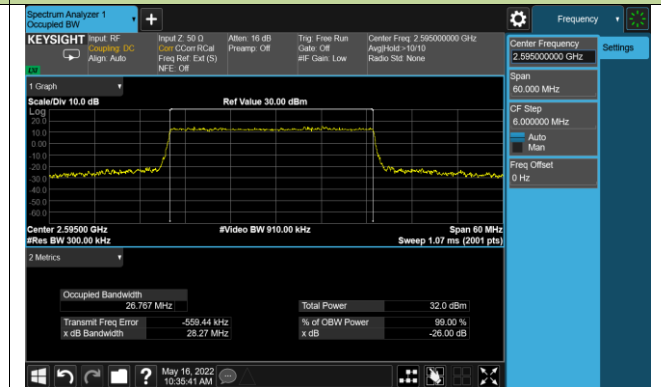
15MHz Channel Bandwidth



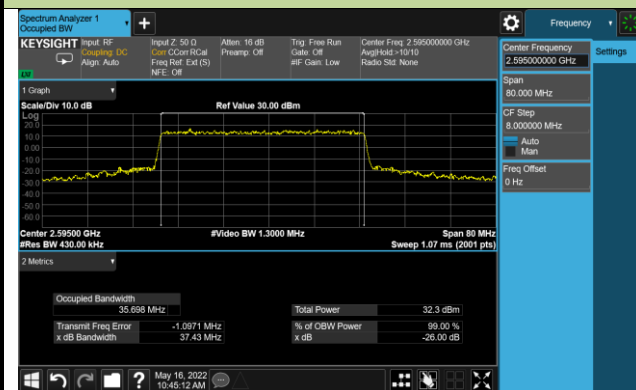
20MHz Channel Bandwidth



30MHz Channel Bandwidth

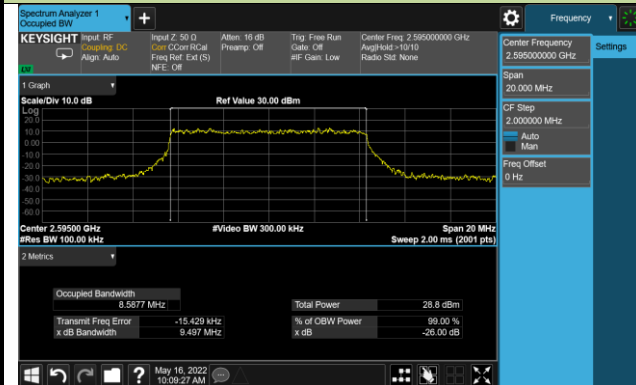


40MHz Channel Bandwidth

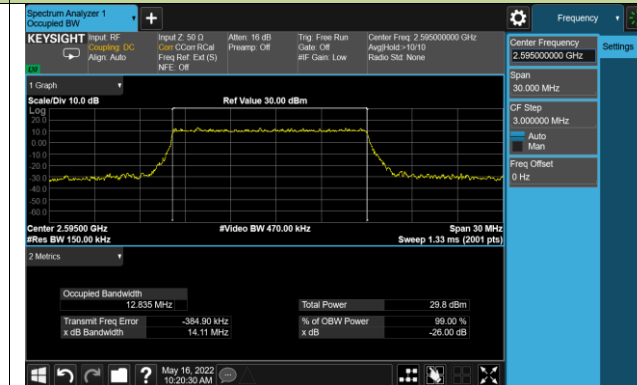


99% Bandwidth - 256QAM

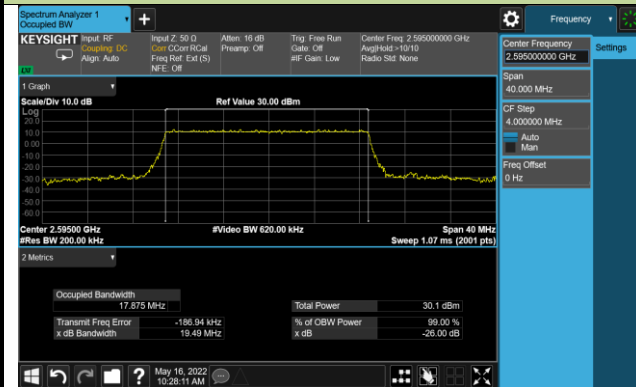
10MHz Channel Bandwidth



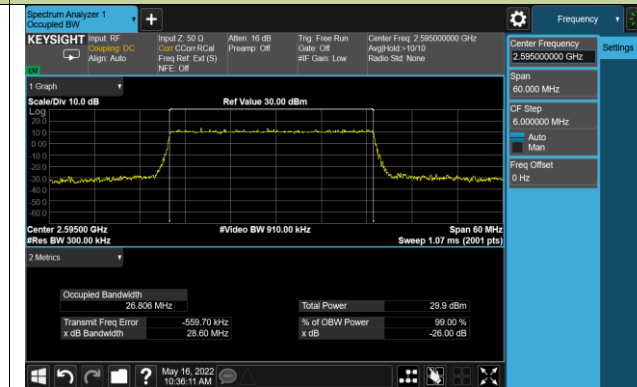
15MHz Channel Bandwidth



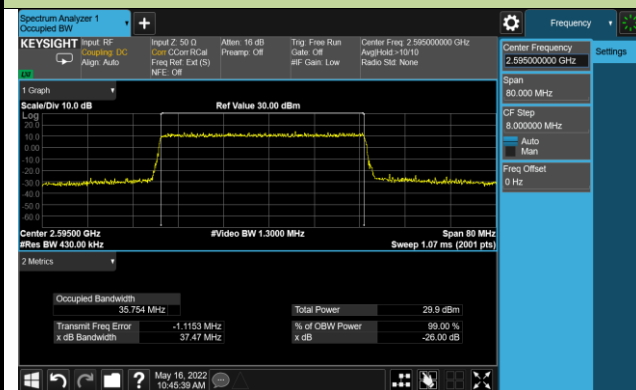
20MHz Channel Bandwidth



30MHz Channel Bandwidth



40MHz Channel Bandwidth



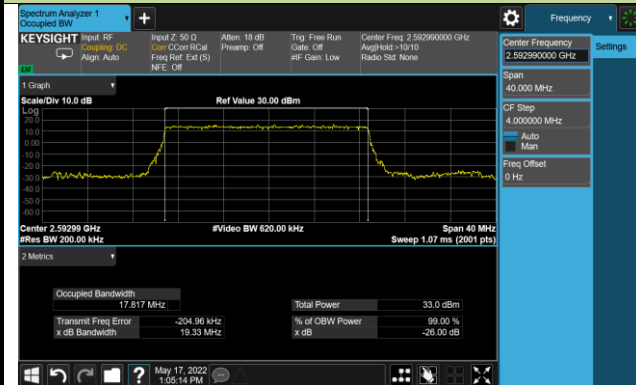
Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/17	Test Band	n41_HPUE

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
<b>PI/2 BPSK</b>		
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
<b>QPSK</b>		
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
<b>16QAM</b>		
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

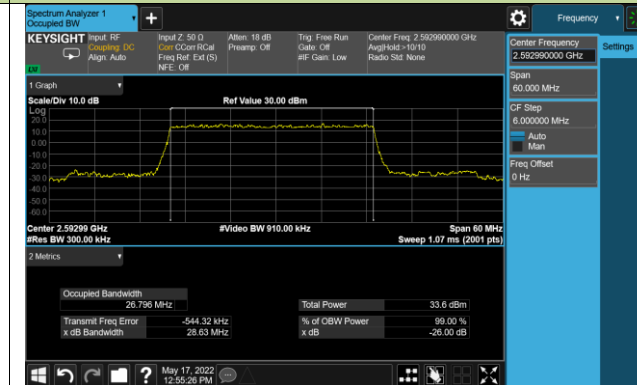
64QAM		
2592.99	20	17.90
2592.99	30	26.77
2592.99	40	35.70
2592.99	50	45.75
2592.99	60	57.72
2592.99	70	64.17
2592.99	80	77.07
2592.99	90	86.71
2592.99	100	96.16
256QAM		
2592.99	20	17.86
2592.99	30	26.80
2592.99	40	35.72
2592.99	50	45.68
2592.99	60	57.74
2592.99	70	64.13
2592.99	80	76.94
2592.99	90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

99% Bandwidth - PI/2 BPSK

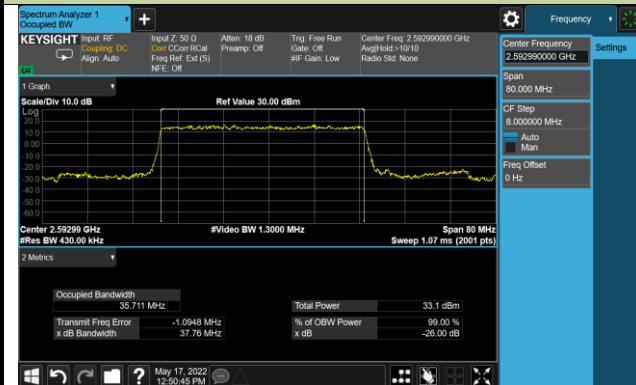
20MHz Channel Bandwidth



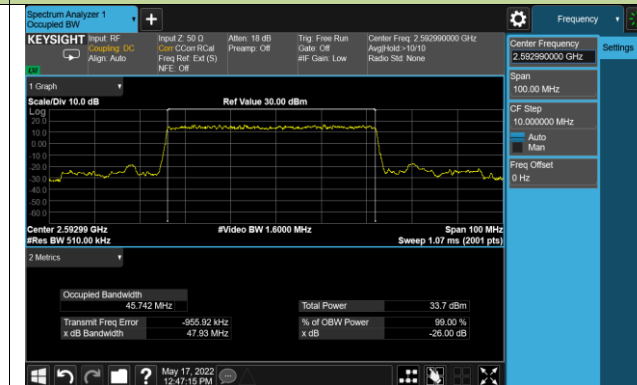
30MHz Channel Bandwidth



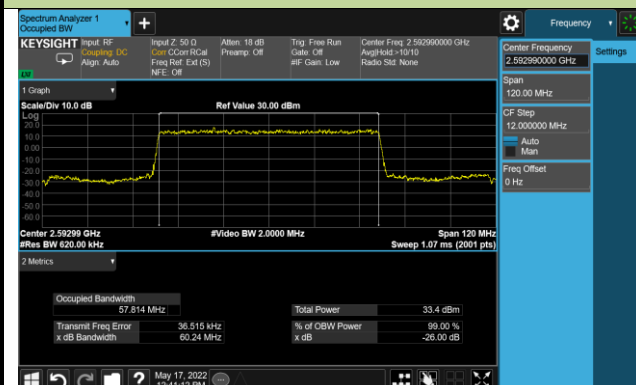
40MHz Channel Bandwidth



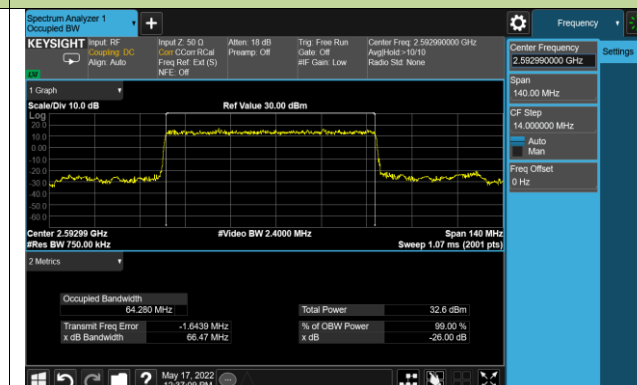
50MHz Channel Bandwidth



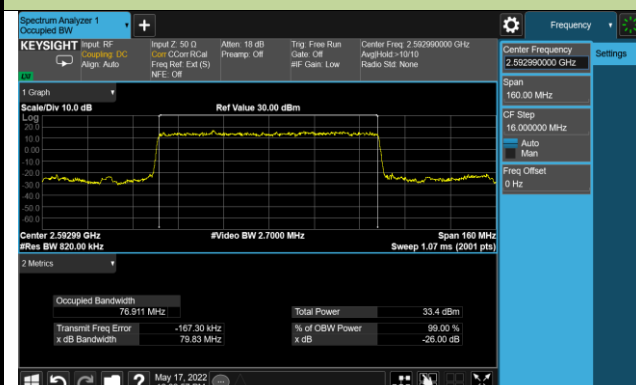
60MHz Channel Bandwidth



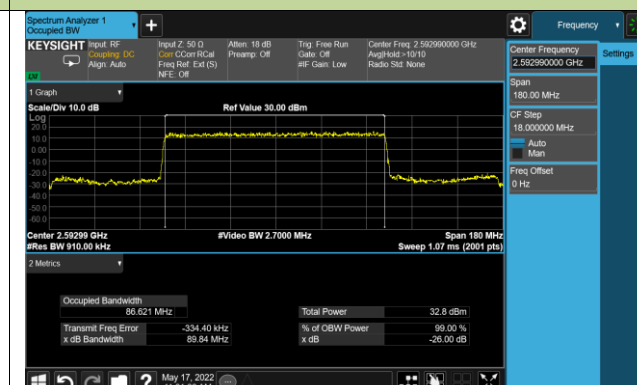
70MHz Channel Bandwidth



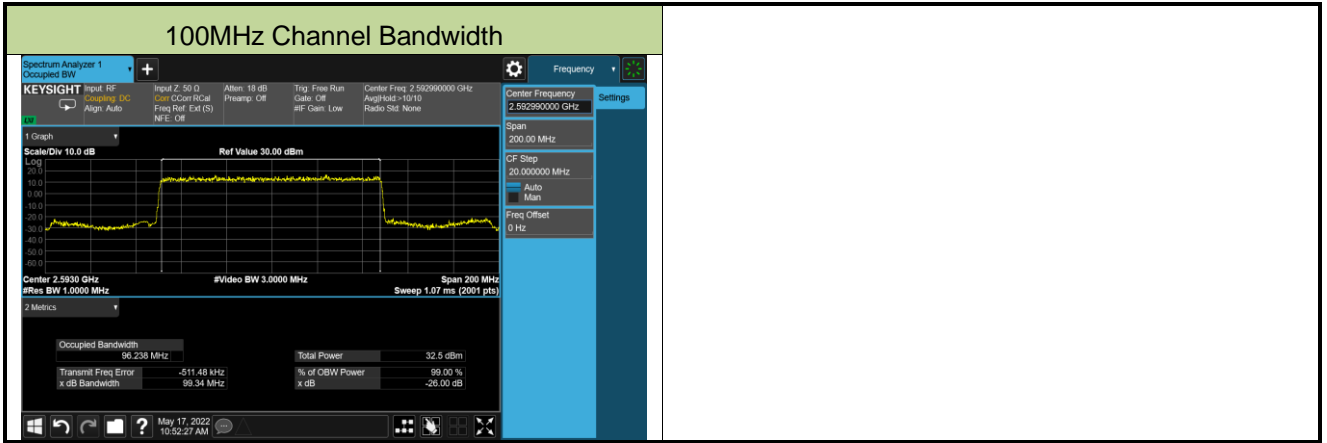
80MHz Channel Bandwidth



90MHz Channel Bandwidth

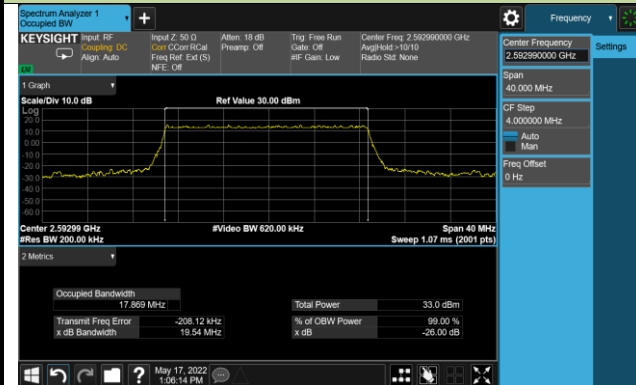




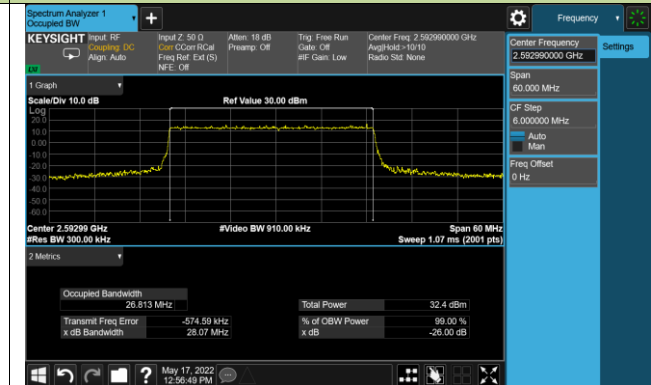


99% Bandwidth - QPSK

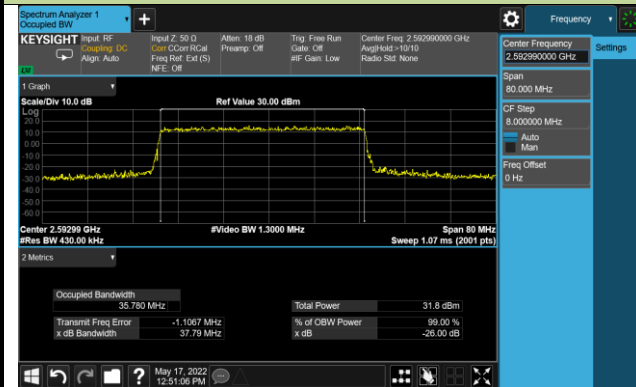
20MHz Channel Bandwidth



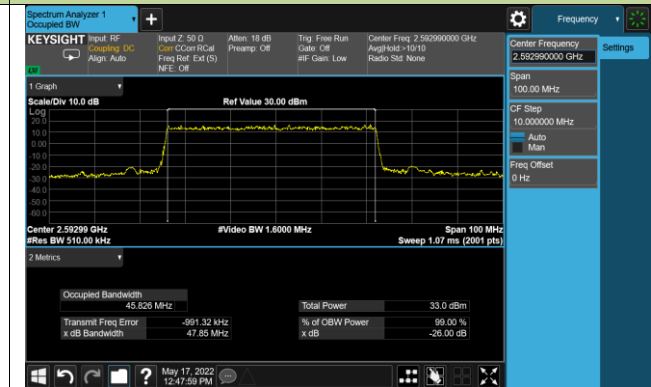
30MHz Channel Bandwidth



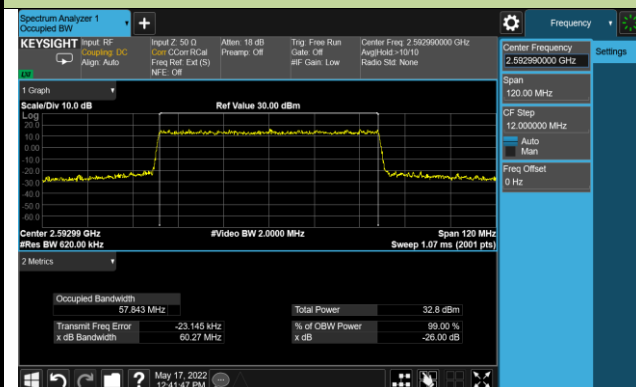
40MHz Channel Bandwidth



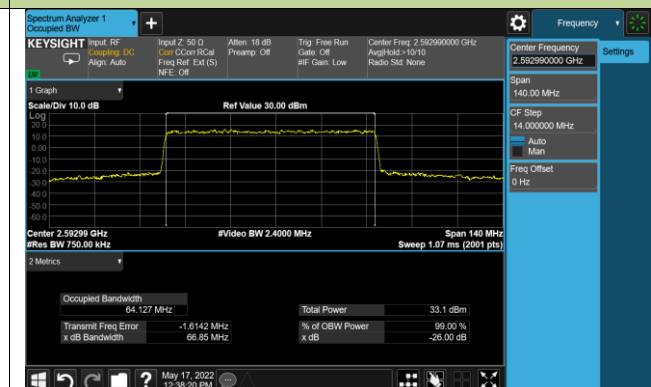
50MHz Channel Bandwidth



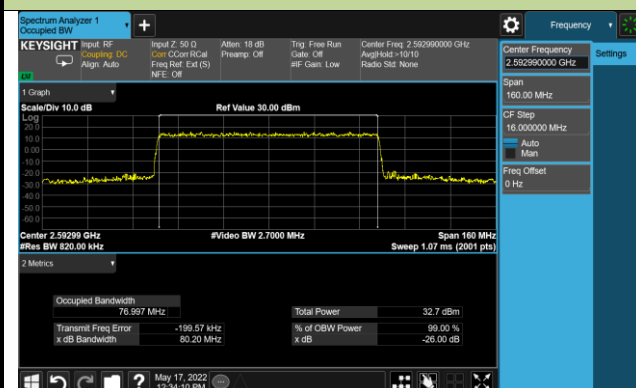
60MHz Channel Bandwidth



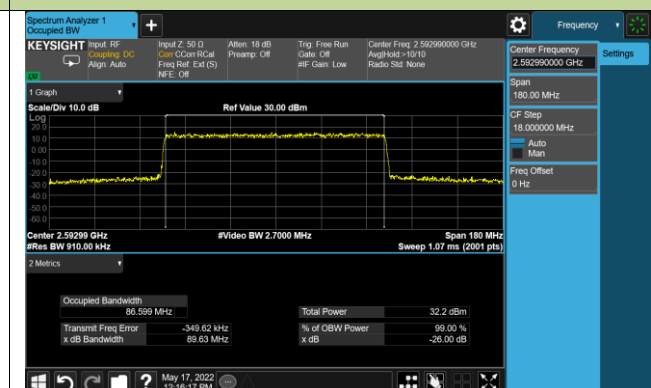
70MHz Channel Bandwidth



80MHz Channel Bandwidth



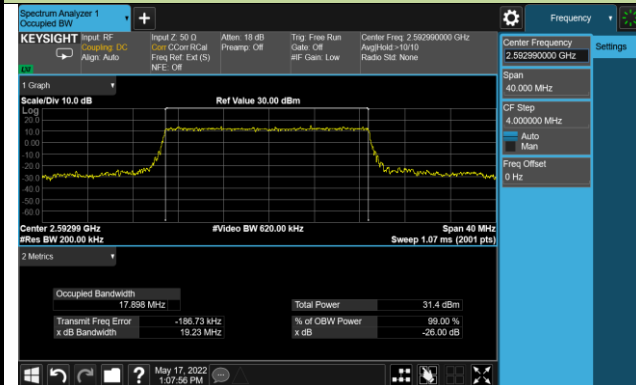
90MHz Channel Bandwidth



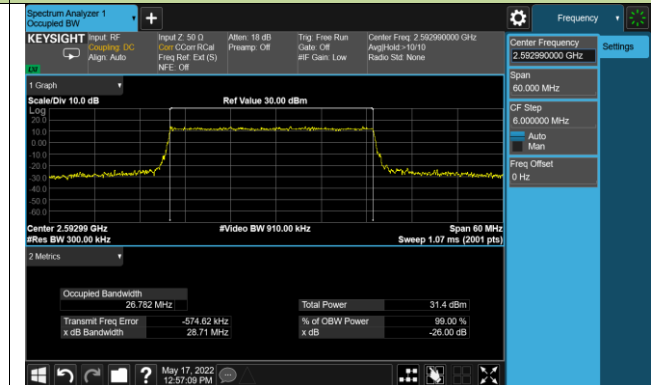


99% Bandwidth - 16QAM

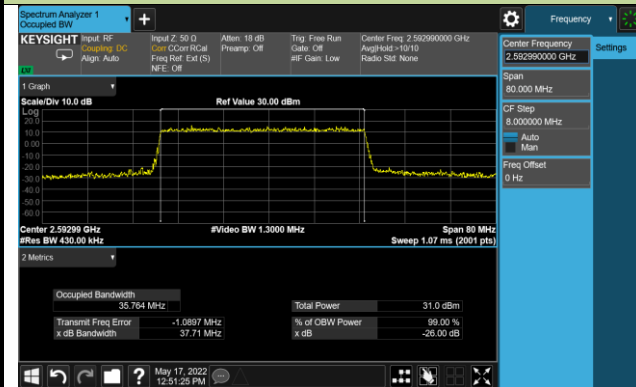
20MHz Channel Bandwidth



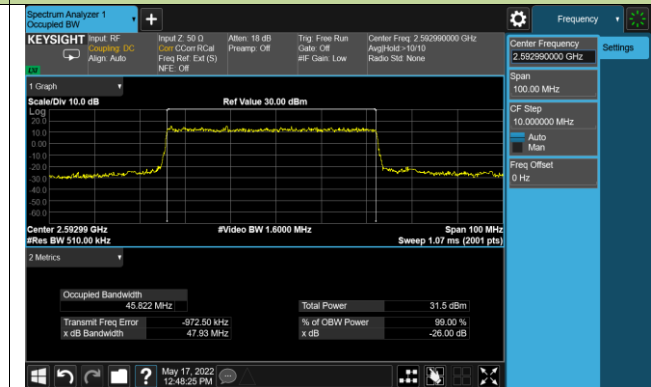
30MHz Channel Bandwidth



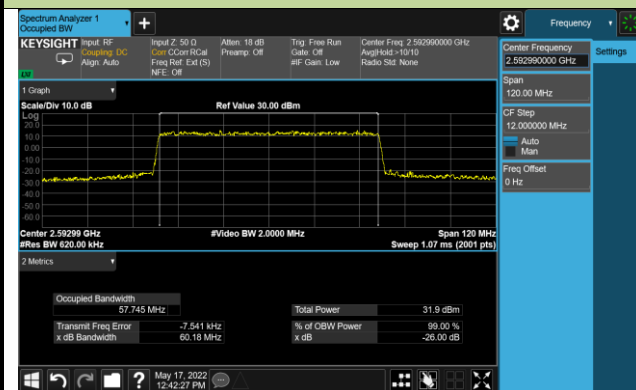
40MHz Channel Bandwidth



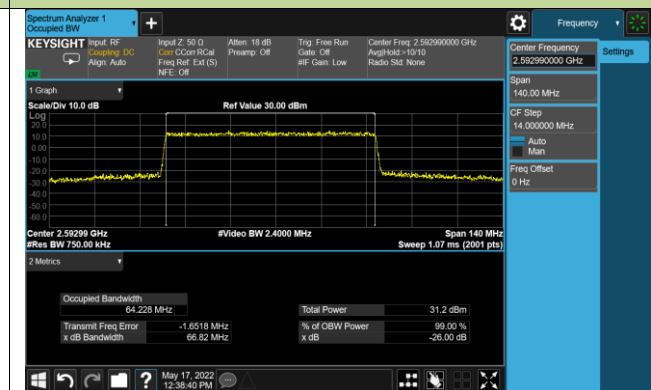
50MHz Channel Bandwidth



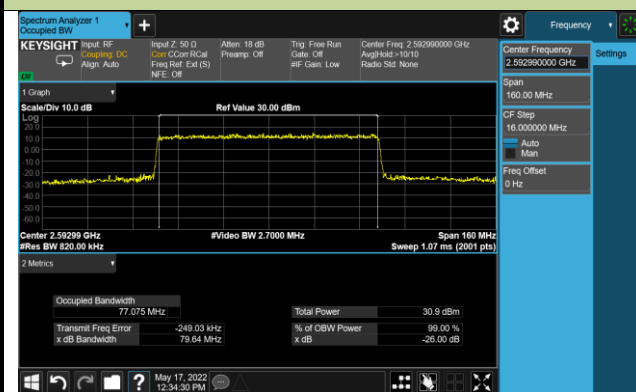
60MHz Channel Bandwidth



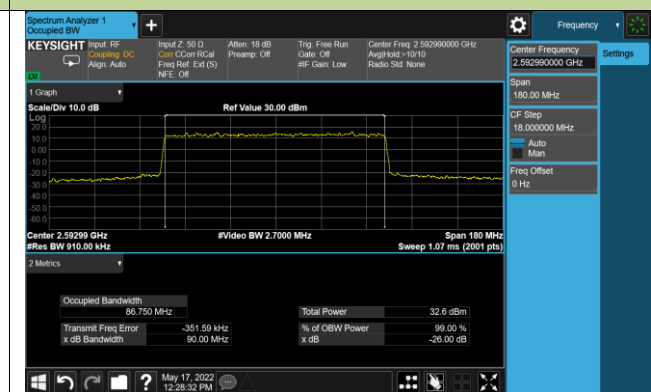
70MHz Channel Bandwidth

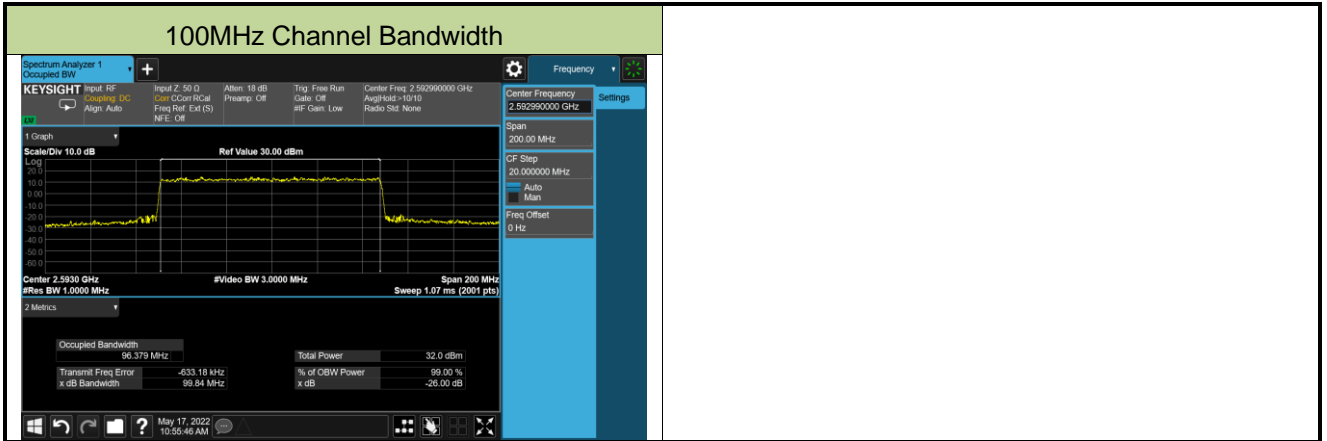


80MHz Channel Bandwidth



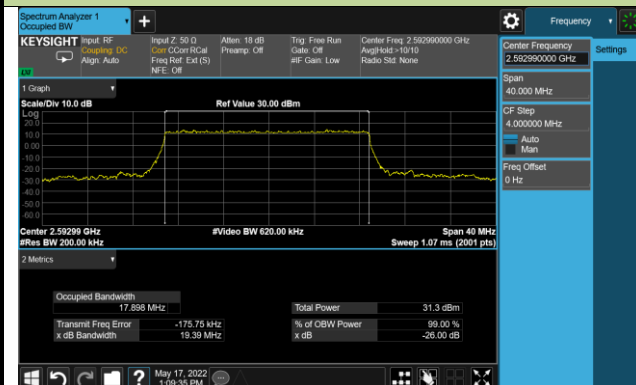
90MHz Channel Bandwidth



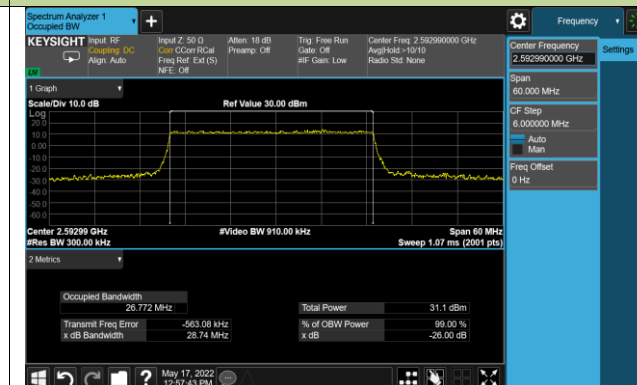


99% Bandwidth - 64QAM

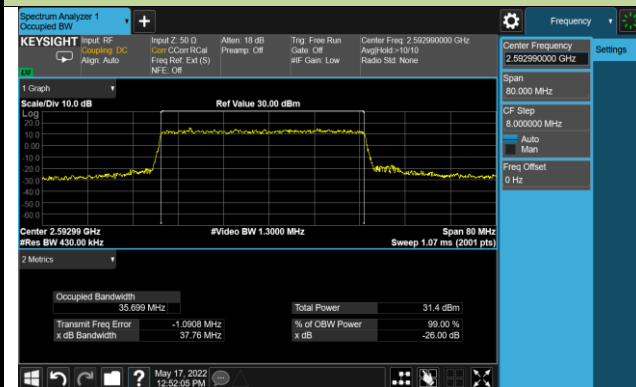
20MHz Channel Bandwidth



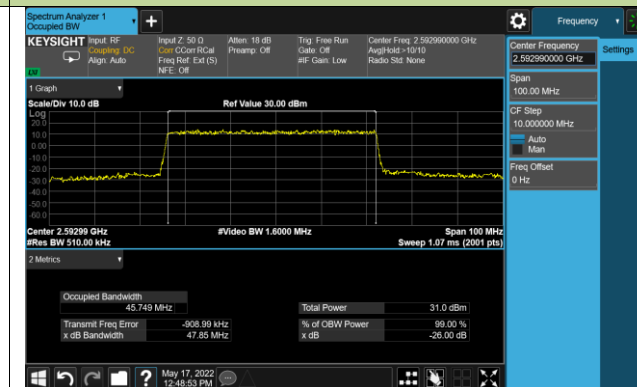
30MHz Channel Bandwidth



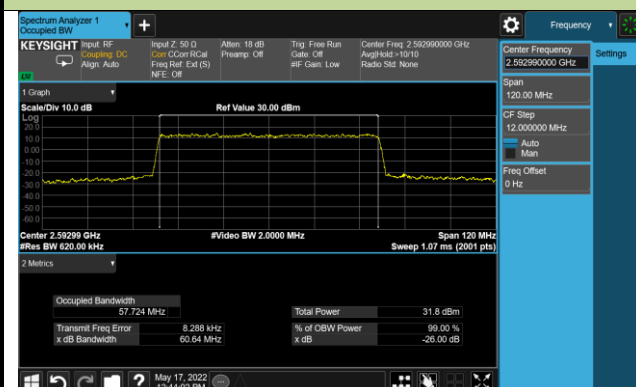
40MHz Channel Bandwidth



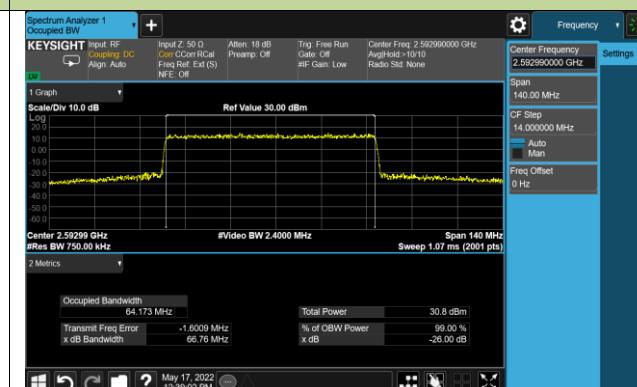
50MHz Channel Bandwidth



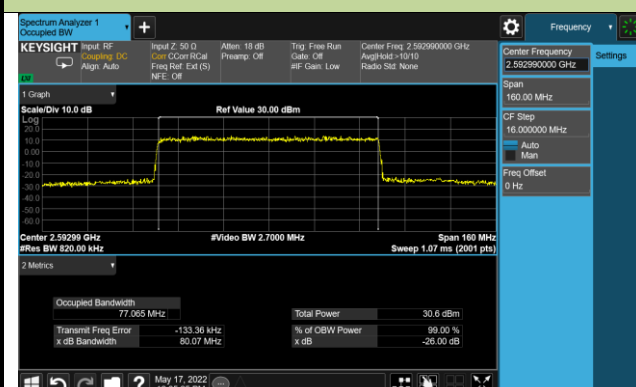
60MHz Channel Bandwidth



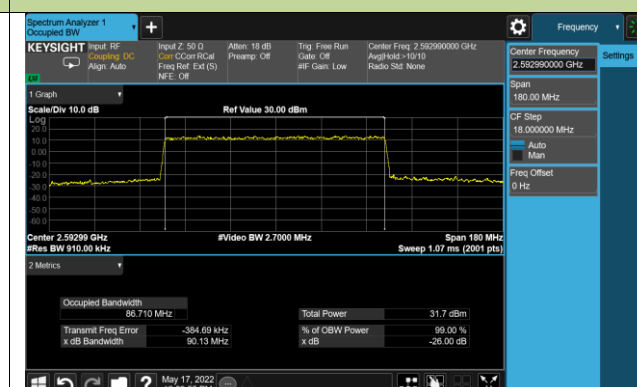
70MHz Channel Bandwidth



80MHz Channel Bandwidth



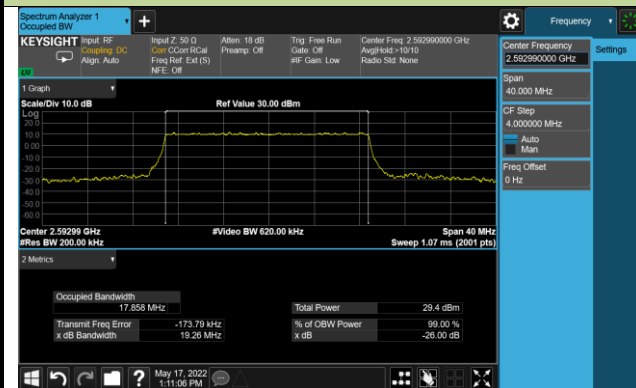
90MHz Channel Bandwidth



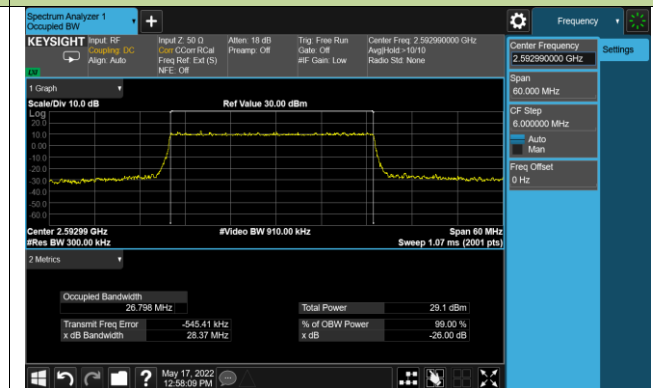


99% Bandwidth - 256QAM

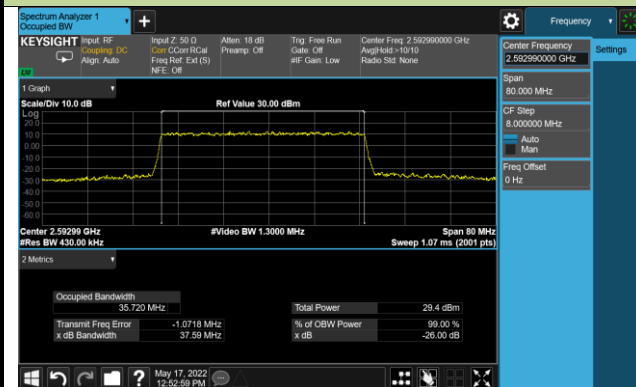
20MHz Channel Bandwidth



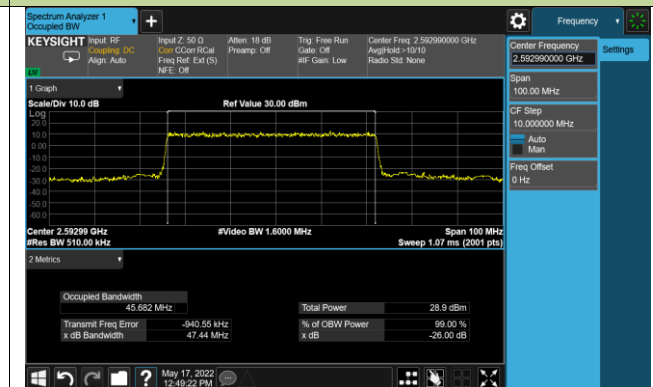
30MHz Channel Bandwidth



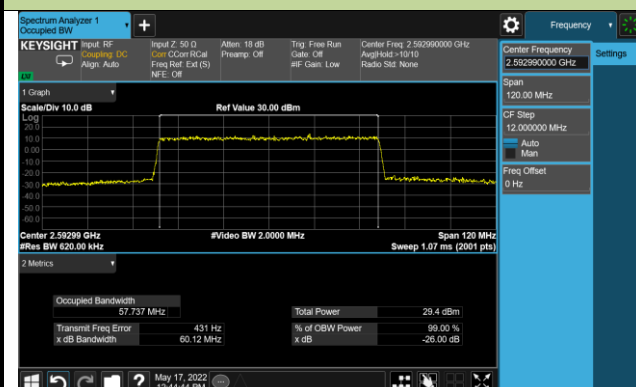
40MHz Channel Bandwidth



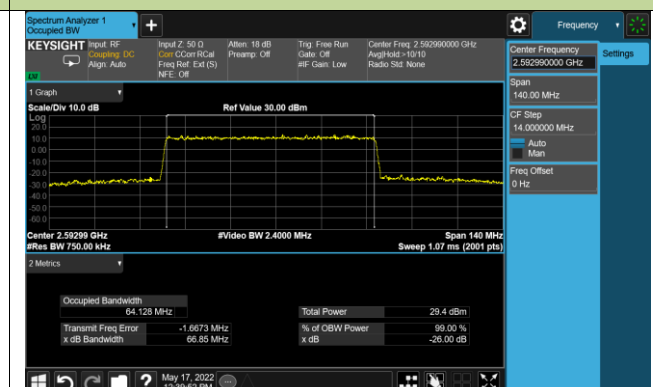
50MHz Channel Bandwidth



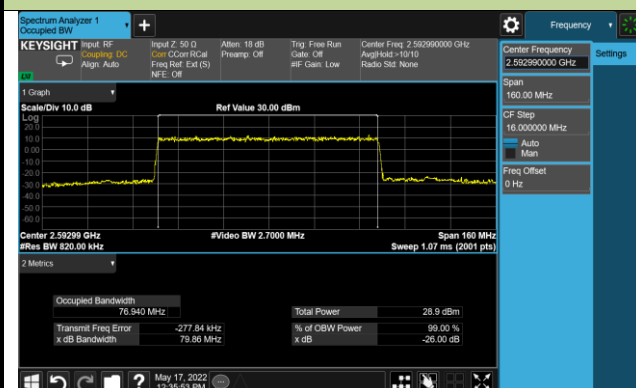
60MHz Channel Bandwidth



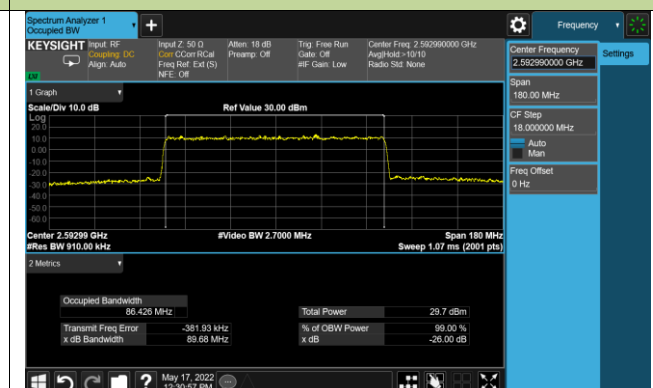
70MHz Channel Bandwidth



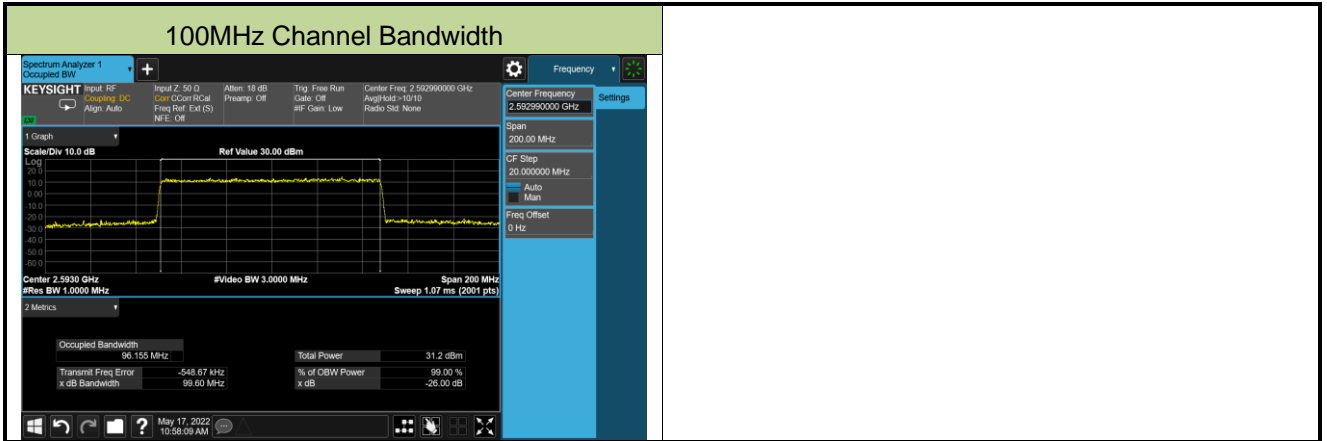
80MHz Channel Bandwidth



90MHz Channel Bandwidth







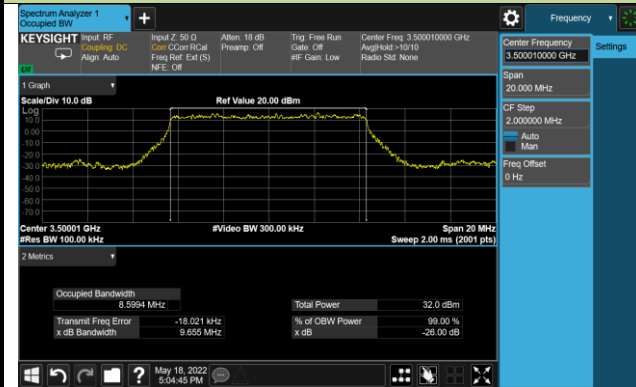
Test Site	SIP-SR1	Test Engineer	Candy Luo
Test Date	2022/05/18	Test Band	n77/n78_HPUE (3450 ~ 3550MHz)

Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
<b>PI/2 BPSK</b>		
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
<b>QPSK</b>		
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

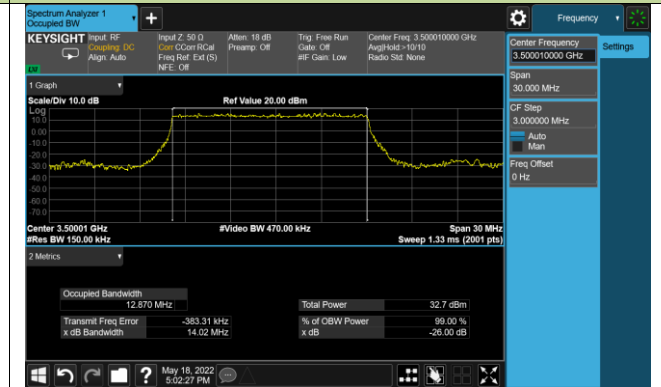
16QAM		
3500.01	10	8.62
3500.01	15	12.90
3500.01	20	17.86
3500.01	30	26.78
3500.01	40	35.76
3500.01	50	45.64
3500.01	60	57.74
3500.01	70	64.33
3500.01	80	71.20
3500.01	90	86.61
3500.01	100	96.23
64QAM		
3500.01	10	8.57
3500.01	15	12.87
3500.01	20	17.87
3500.01	30	26.76
3500.01	40	35.69
3500.01	50	45.68
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

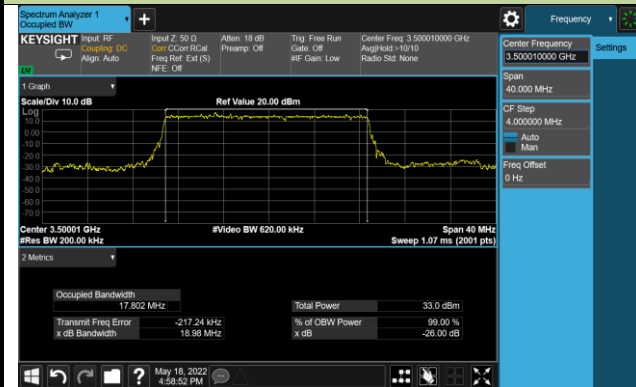
## 10MHz Channel Bandwidth



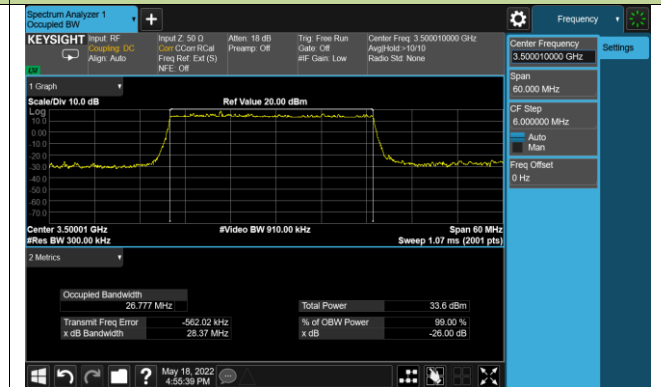
## 15MHz Channel Bandwidth



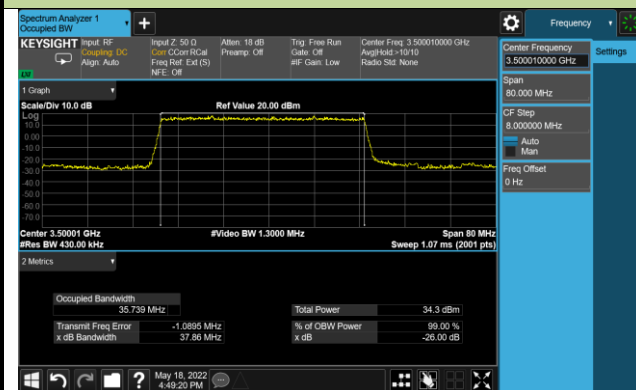
## 20MHz Channel Bandwidth



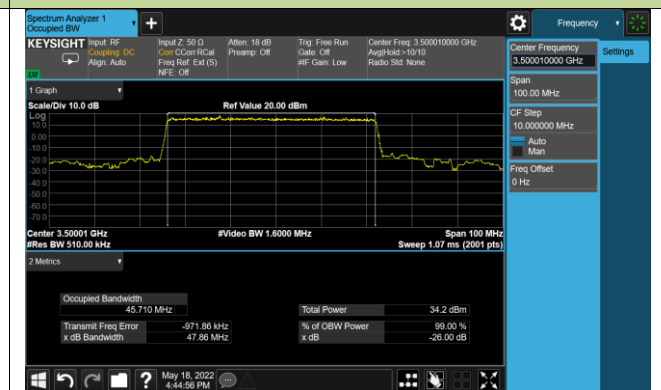
## 30MHz Channel Bandwidth



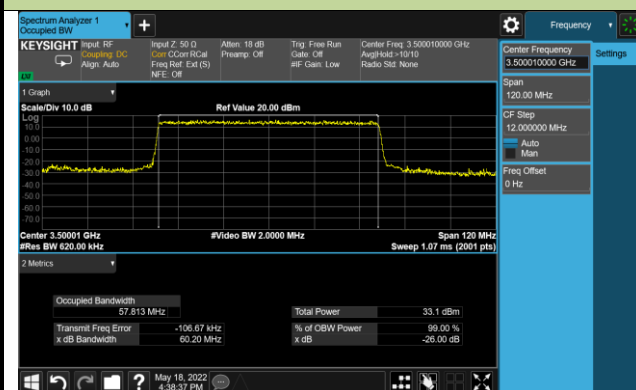
## 40MHz Channel Bandwidth



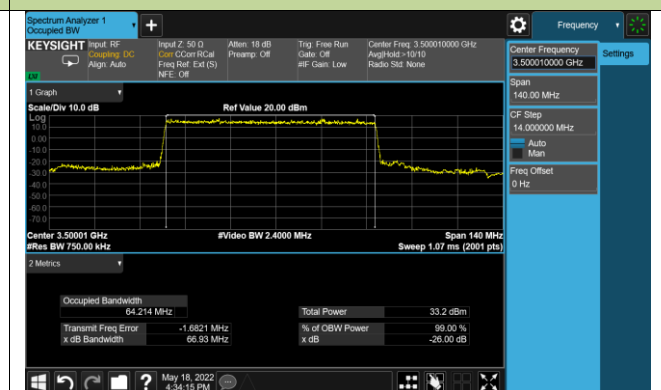
## 50MHz Channel Bandwidth

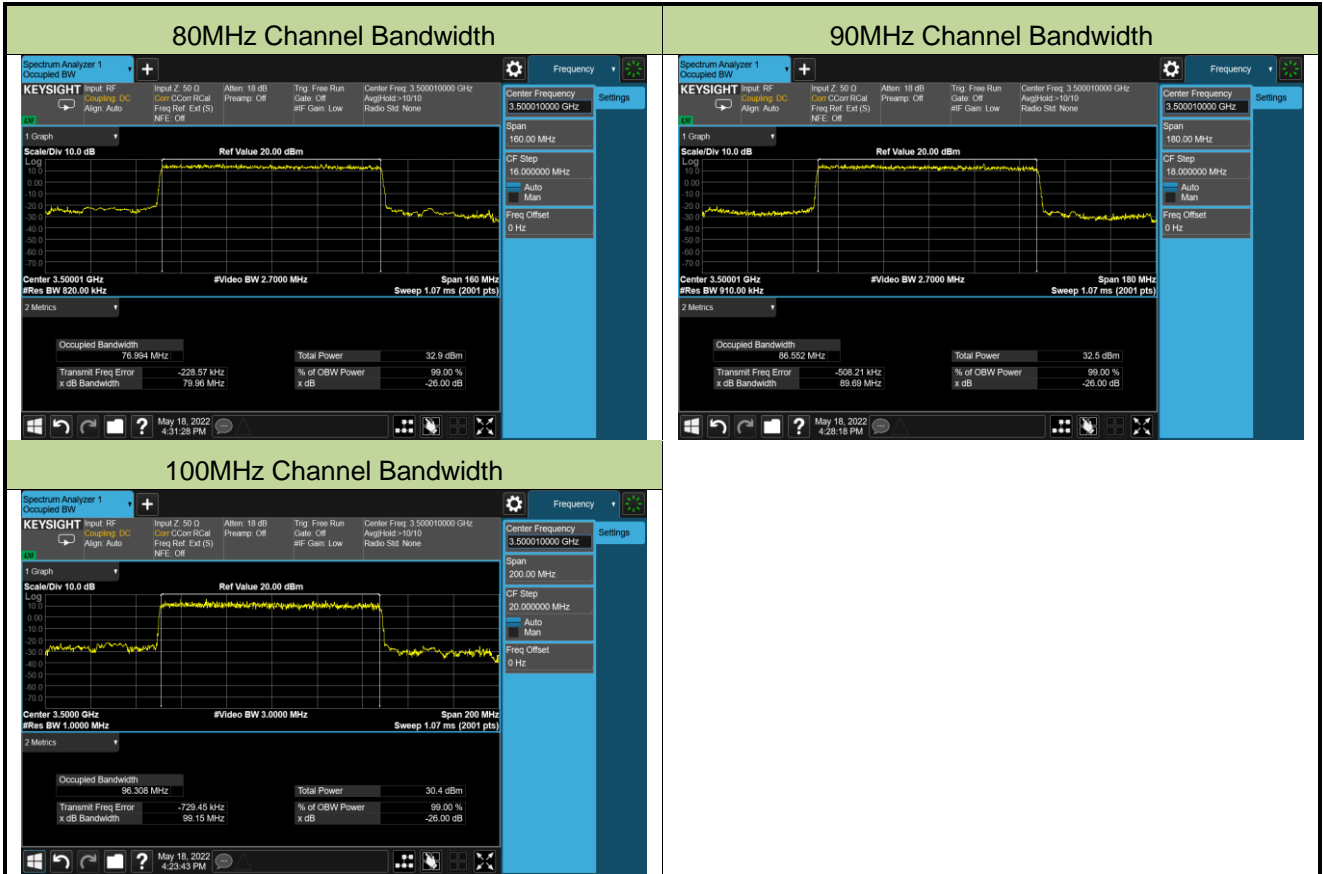


## 60MHz Channel Bandwidth



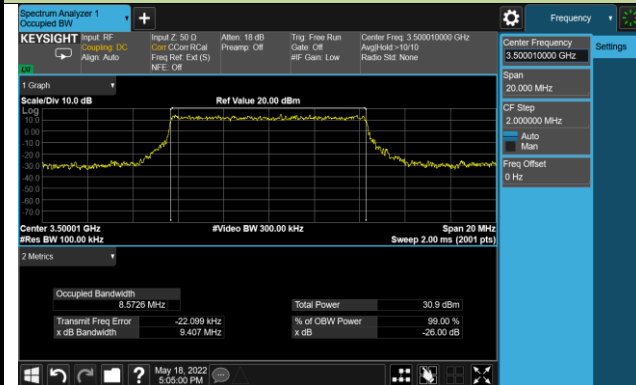
## 70MHz Channel Bandwidth



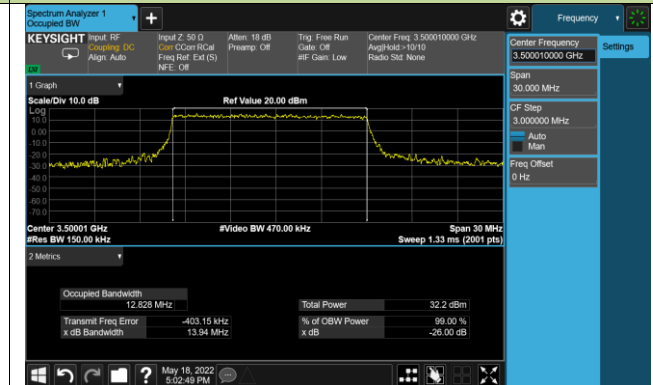


99% Bandwidth - QPSK

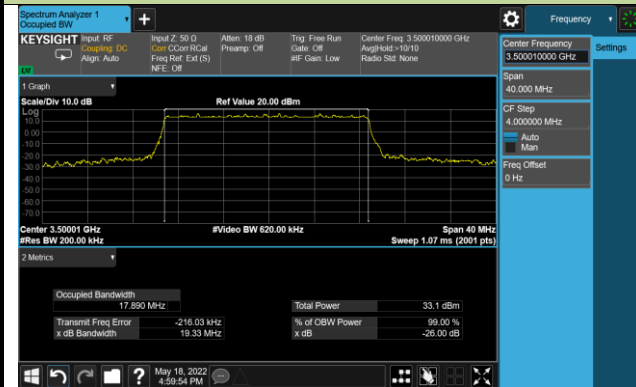
10MHz Channel Bandwidth



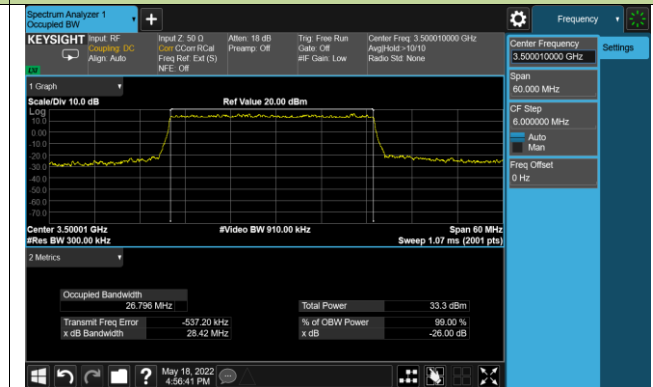
15MHz Channel Bandwidth



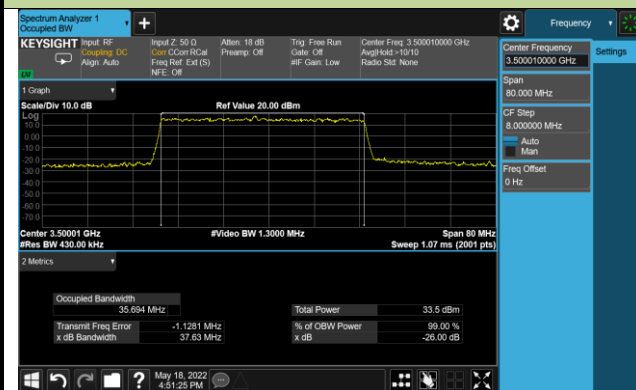
20MHz Channel Bandwidth



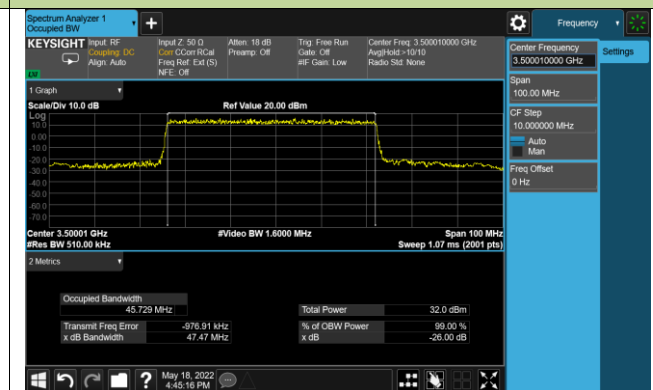
30MHz Channel Bandwidth



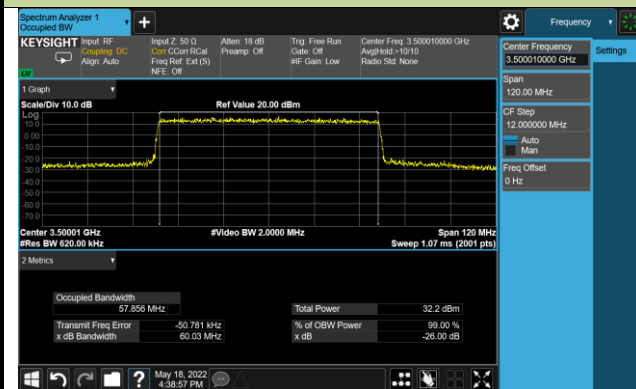
40MHz Channel Bandwidth



50MHz Channel Bandwidth



60MHz Channel Bandwidth



70MHz Channel Bandwidth

