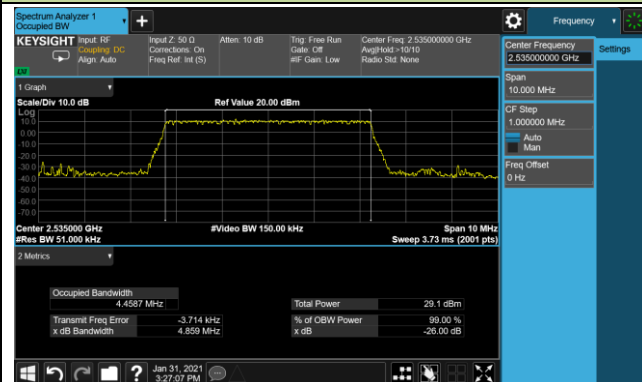
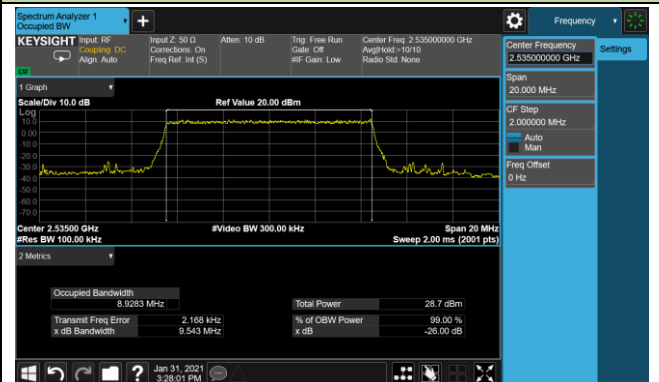


## 99% Bandwidth - 64QAM

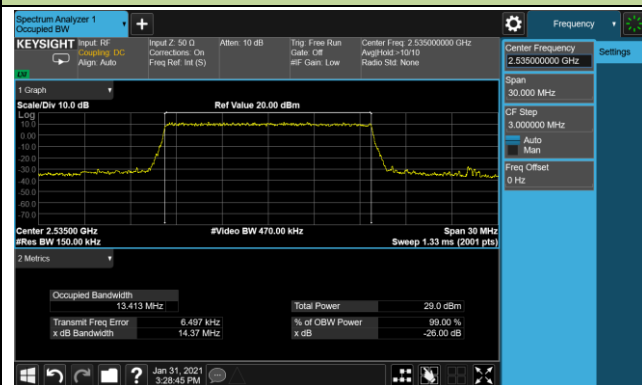
## 5MHz Channel Bandwidth



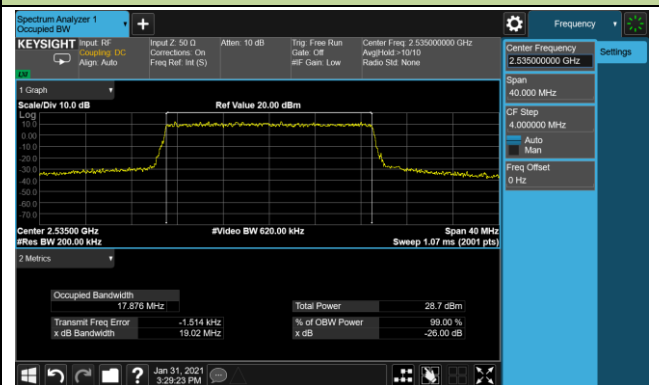
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

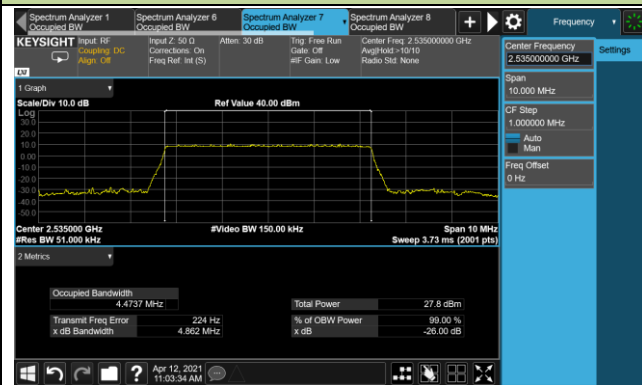


## 20MHz Channel Bandwidth

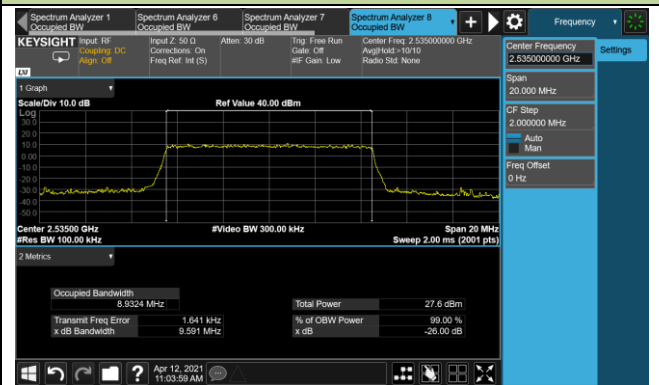


## 99% Bandwidth - 256QAM

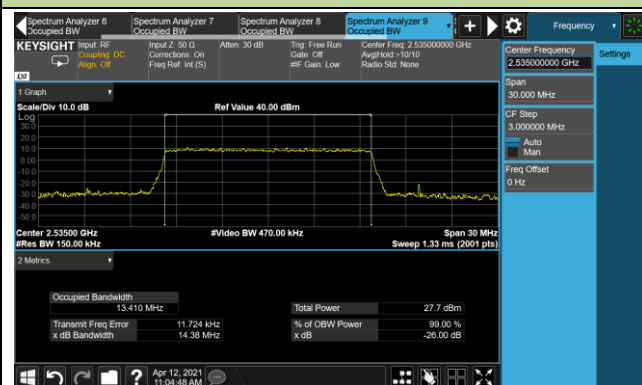
## 5MHz Channel Bandwidth



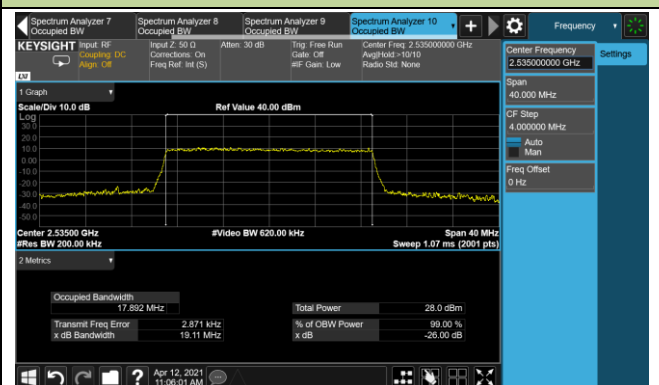
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth



## 20MHz Channel Bandwidth

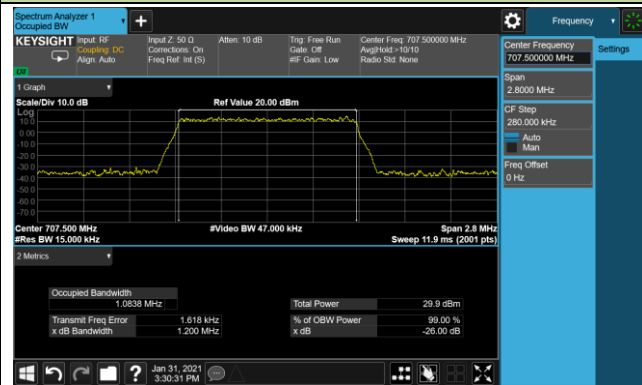


Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR6
Test Engineer	Candy Luo	Test Date	2021/01/31
Test Band	LTE Band 12		

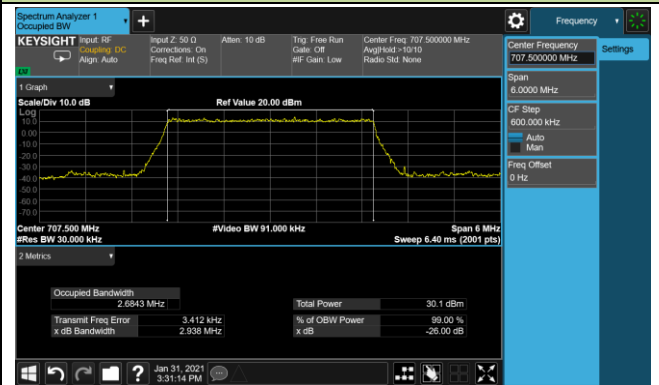
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
23095	707.5	1.4	1.08
		3	2.68
		5	4.46
		10	8.94
16QAM			
23095	707.5	1.4	1.08
		3	2.68
		5	4.46
		10	8.94
64QAM			
23095	707.5	1.4	1.08
		3	2.68
		5	4.46
		10	8.93
256QAM			
23095	707.5	1.4	1.09
		3	2.68
		5	4.47
		10	8.92

## 99% Bandwidth - QPSK

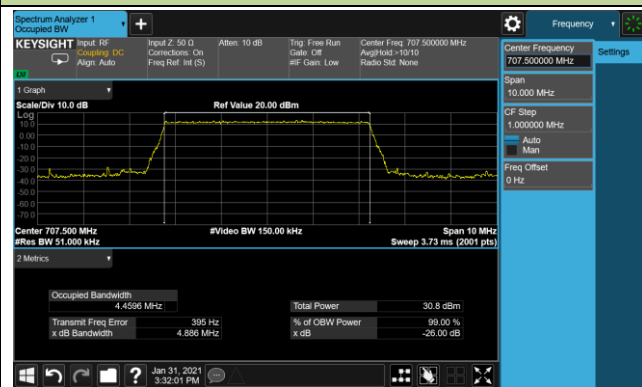
## 1.4MHz Channel Bandwidth



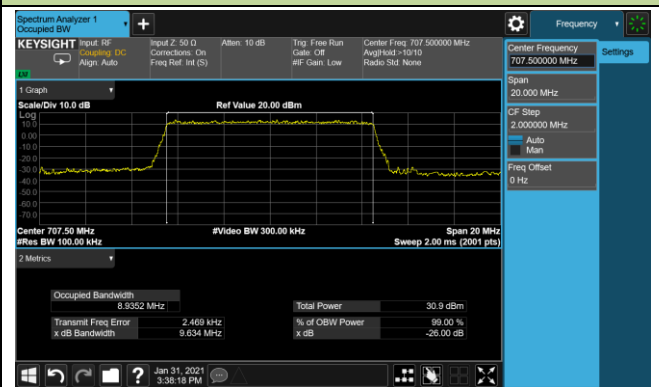
## 3MHz Channel Bandwidth



## 5MHz Channel Bandwidth

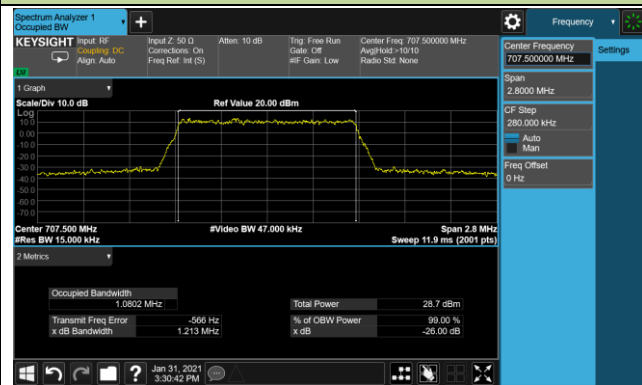


## 10MHz Channel Bandwidth

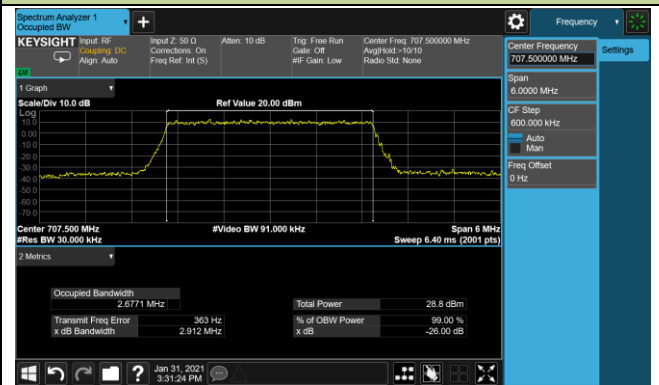


## 99% Bandwidth - 16QAM

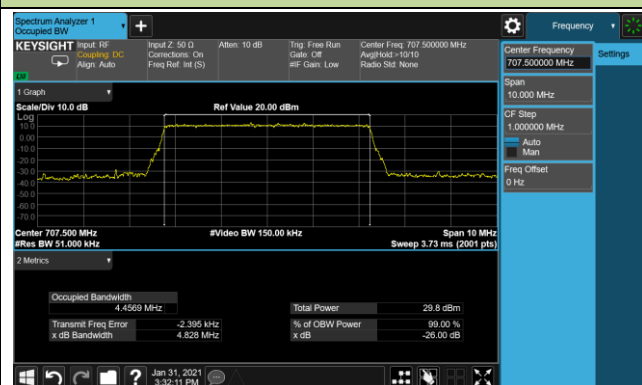
## 1.4MHz Channel Bandwidth



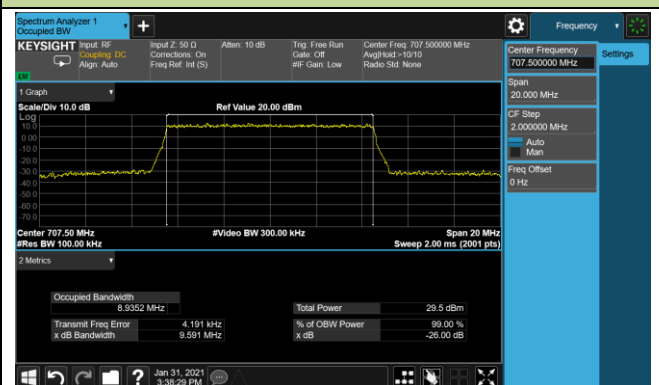
## 3MHz Channel Bandwidth



## 5MHz Channel Bandwidth

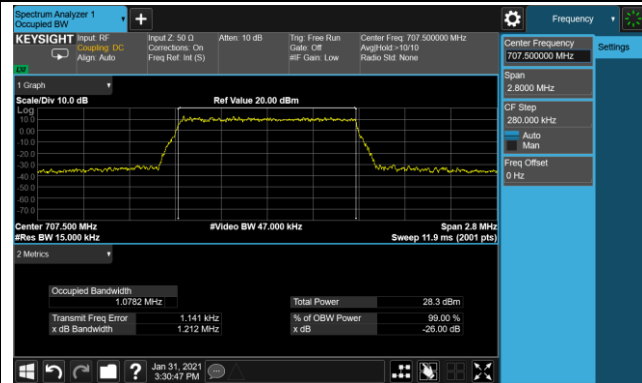


## 10MHz Channel Bandwidth

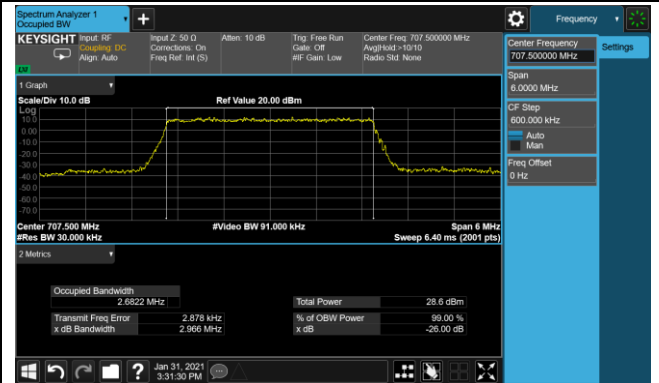


99% Bandwidth - 64QAM

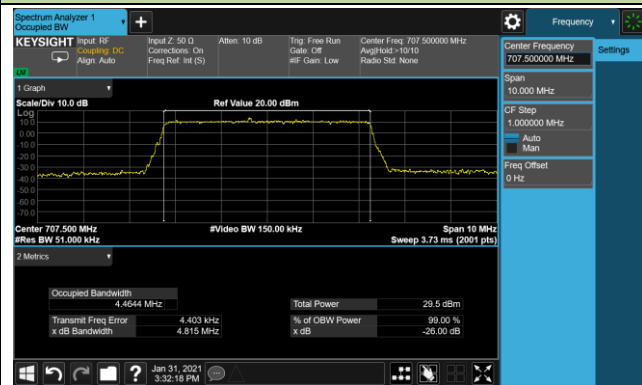
1.4MHz Channel Bandwidth



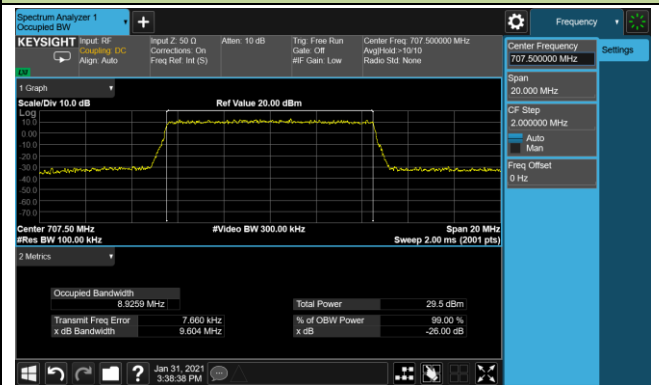
3MHz Channel Bandwidth



5MHz Channel Bandwidth

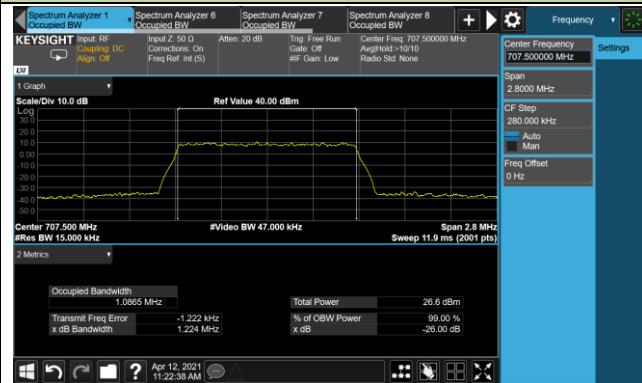


10MHz Channel Bandwidth

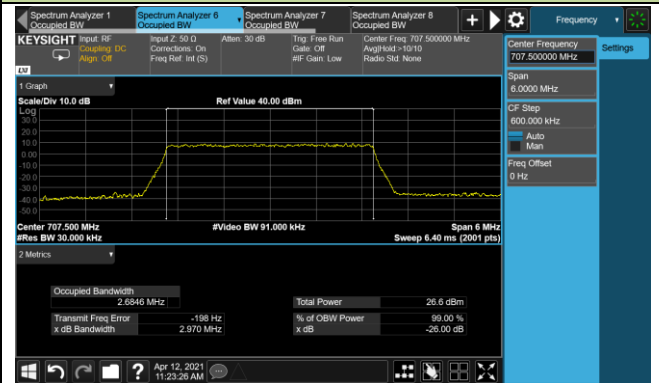


99% Bandwidth - 256QAM

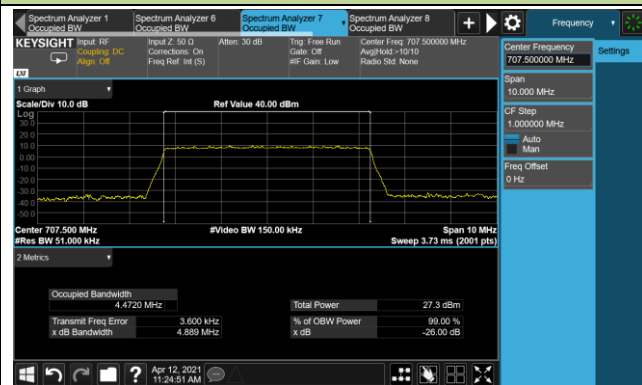
1.4MHz Channel Bandwidth



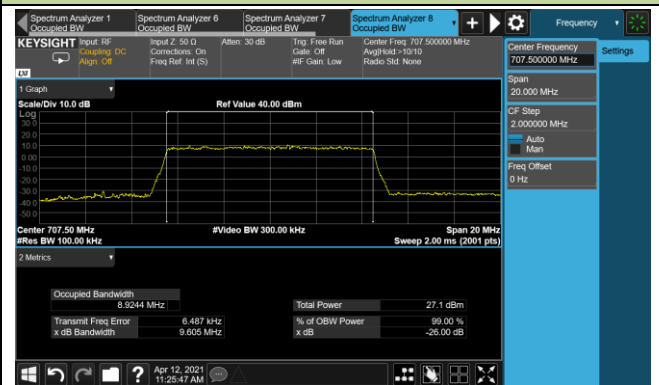
3MHz Channel Bandwidth



5MHz Channel Bandwidth



10MHz Channel Bandwidth

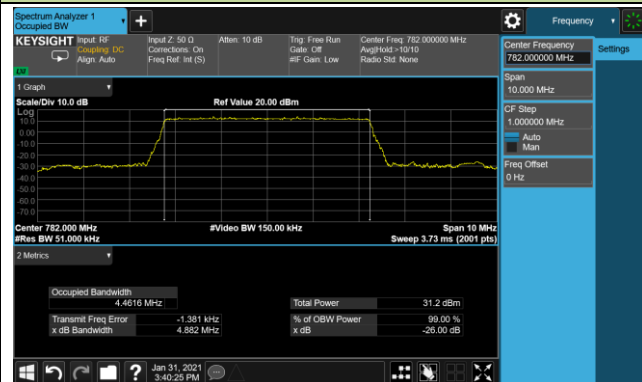


Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Candy Luo	Test Date	2021/01/31
Test Band	LTE Band 13		

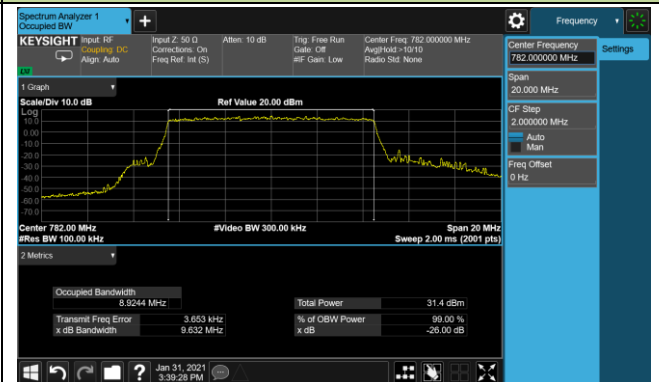
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
23230	782.0	5	4.46
		10	8.92
16QAM			
23230	782.0	5	4.47
		10	8.92
64QAM			
23230	782.0	5	4.46
		10	8.92
256QAM			
23230	782.0	5	4.48
		10	8.94

## 99% Bandwidth - QPSK

## 5MHz Channel Bandwidth

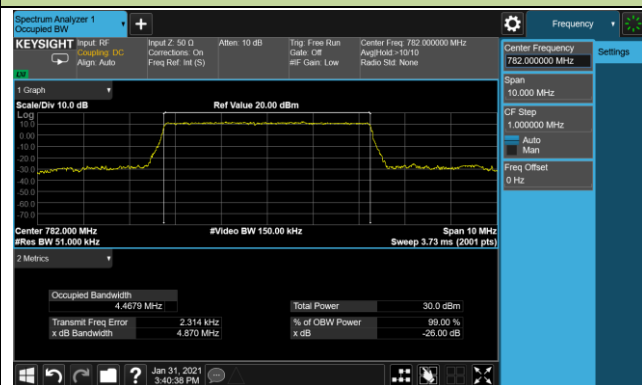


## 10MHz Channel Bandwidth



## 99% Bandwidth - 16QAM

## 5MHz Channel Bandwidth

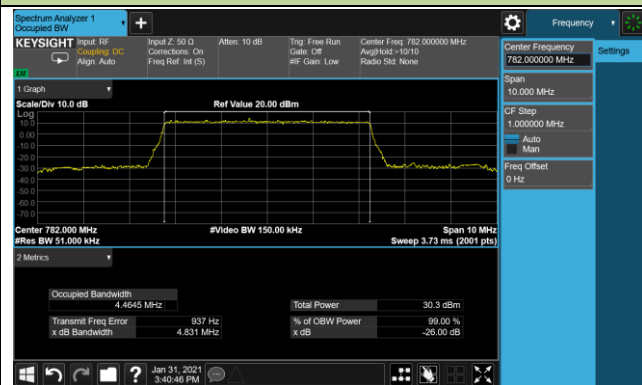


## 10MHz Channel Bandwidth

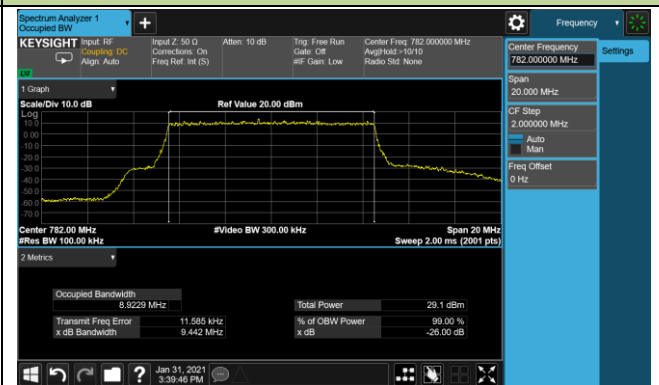


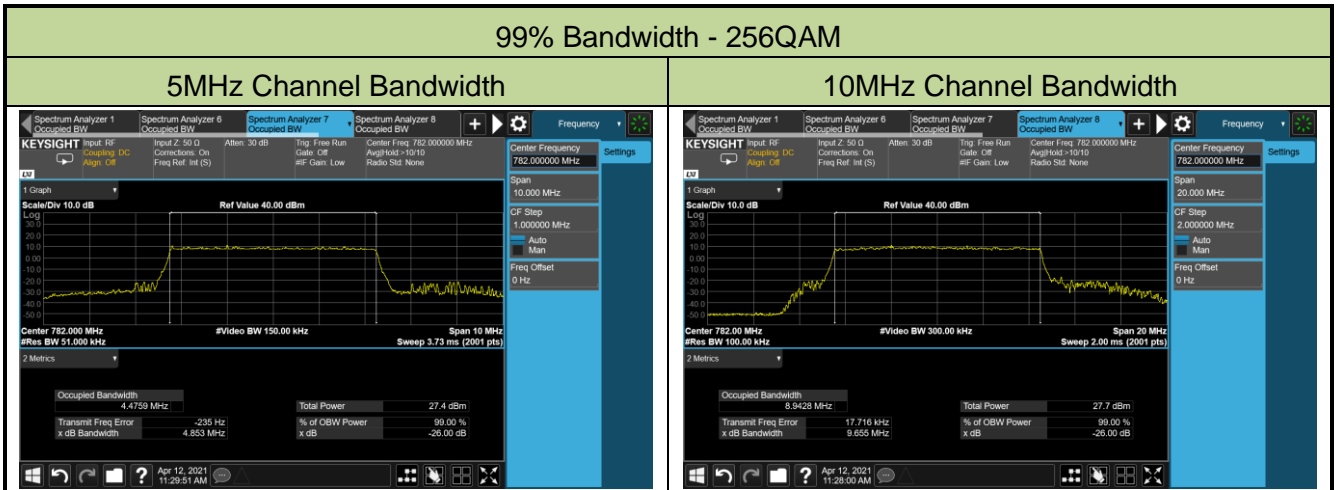
## 99% Bandwidth - 64QAM

## 5MHz Channel Bandwidth



## 10MHz Channel Bandwidth





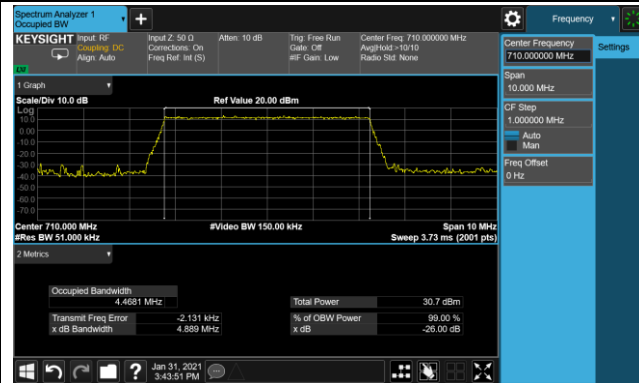
Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Candy Luo	Test Date	2021/01/31
Test Band	LTE Band 17		

Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
23790	710.0	5	4.47
		10	8.94
16QAM			
23790	710.0	5	4.45
		10	8.93
64QAM			
23790	710.0	5	4.45
		10	8.92
256QAM			
23790	710.0	5	4.47
		10	8.94

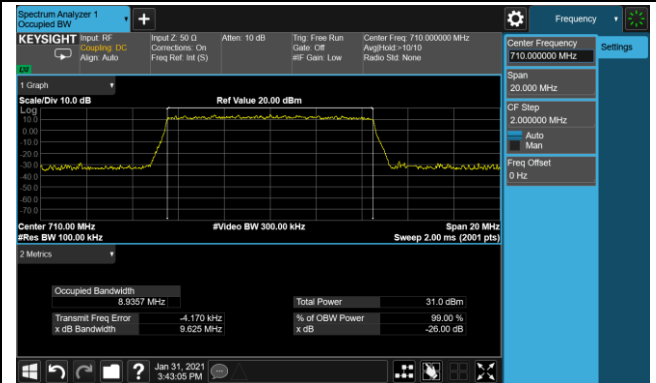


## 99% Bandwidth - QPSK

## 5MHz Channel Bandwidth

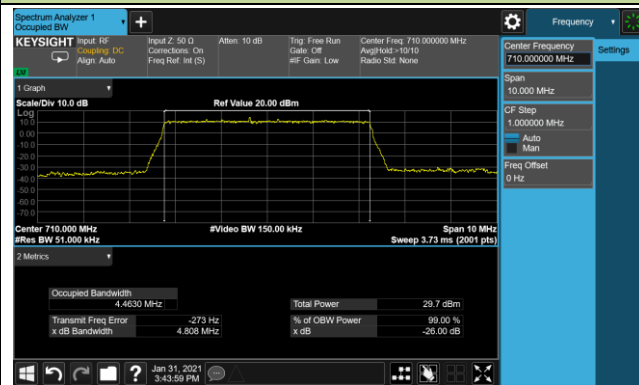


## 10MHz Channel Bandwidth

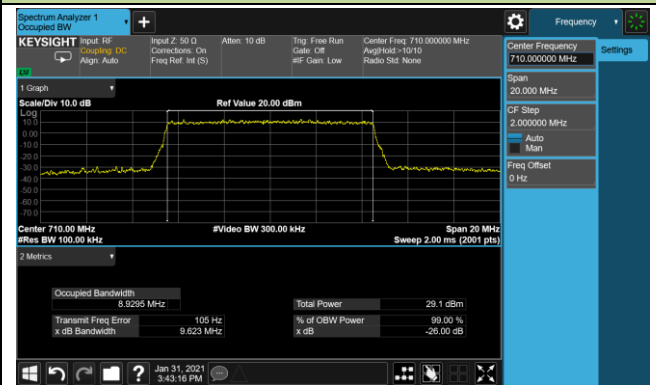


## 99% Bandwidth - 16QAM

## 5MHz Channel Bandwidth

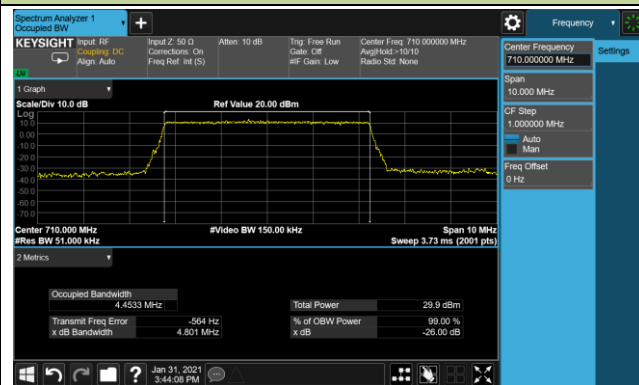


## 10MHz Channel Bandwidth

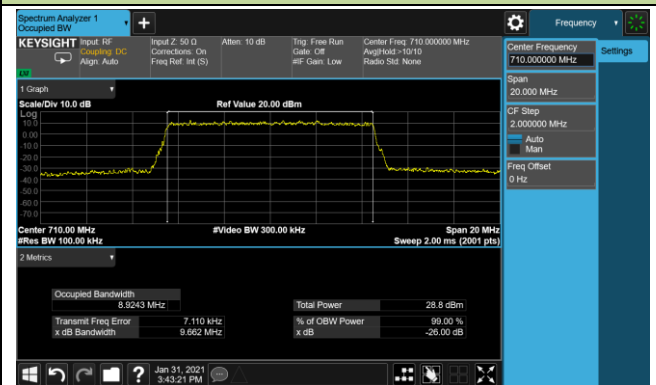


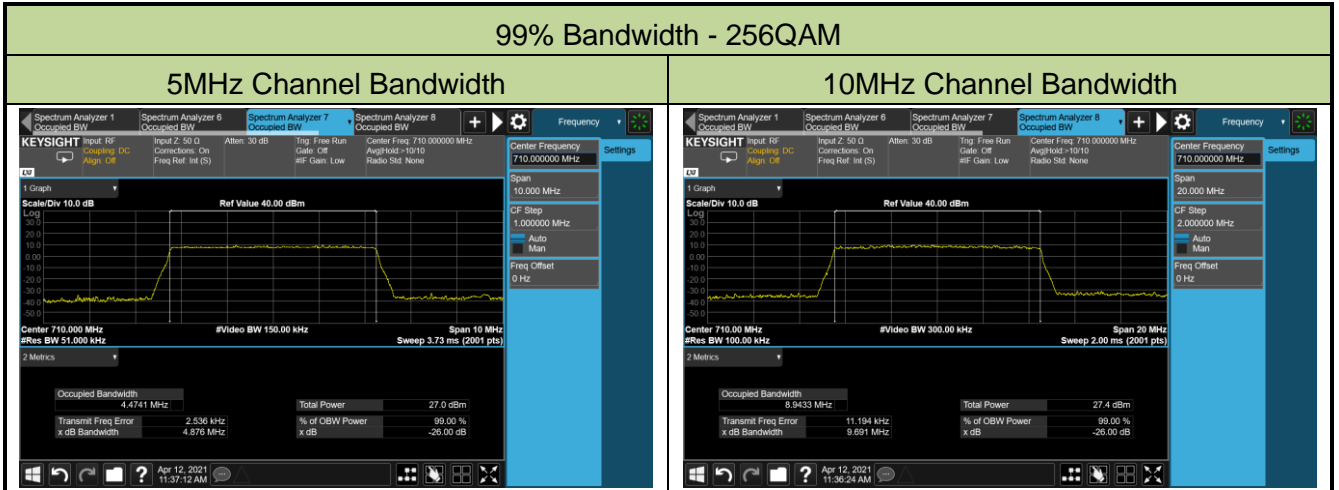
## 99% Bandwidth - 64QAM

## 5MHz Channel Bandwidth



## 10MHz Channel Bandwidth



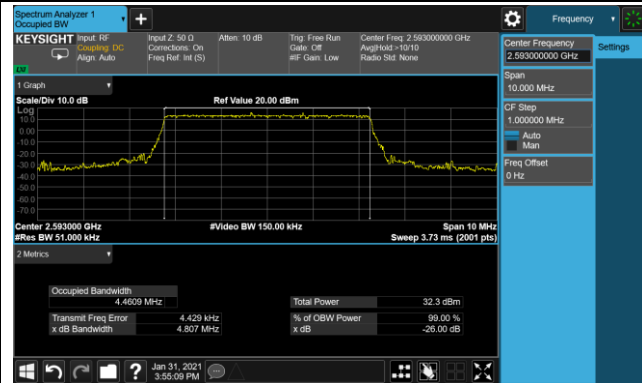


Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Candy Luo	Test Date	2021/01/31
Test Band	LTE Band 38/41_HPUE		

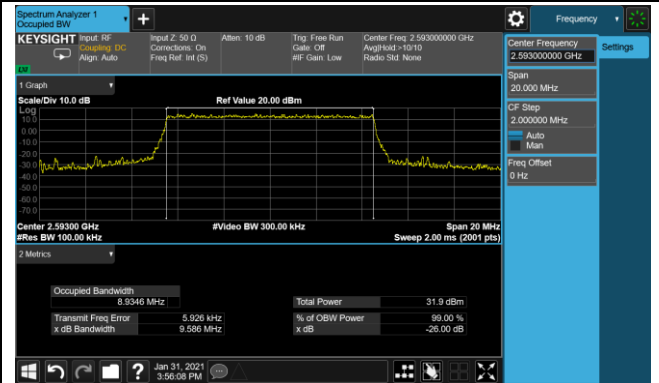
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
37980	2593.0	5	4.46
		10	8.93
		15	13.40
		20	17.89
16QAM			
37980	2593.0	5	4.46
		10	8.95
		15	13.41
		20	17.82
64QAM			
37980	2593.0	5	4.45
		10	8.96
		15	13.43
		20	17.85
256QAM			
37980	2593.0	5	4.47
		10	8.94
		15	13.40
		20	17.85

## 99% Bandwidth - QPSK

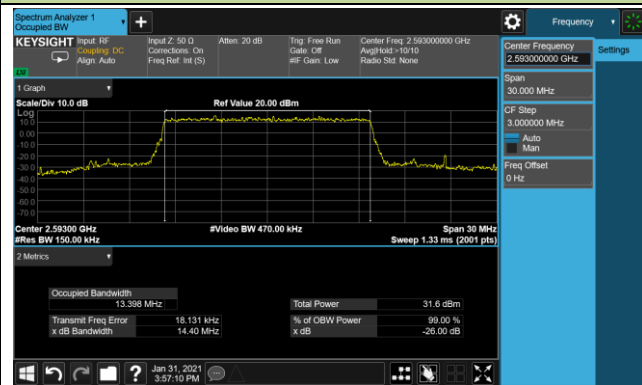
## 5MHz Channel Bandwidth



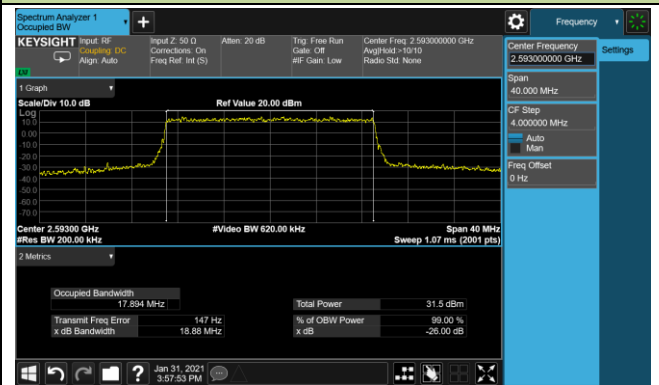
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

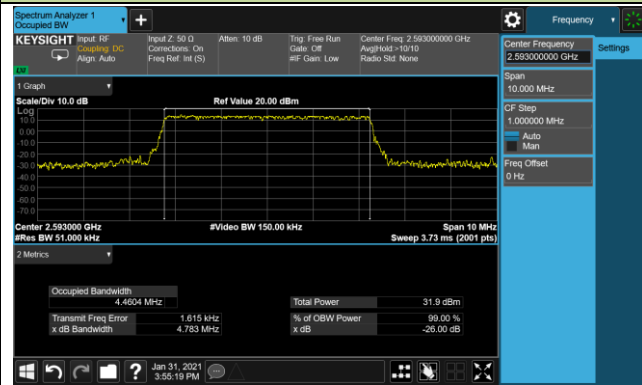


## 20MHz Channel Bandwidth

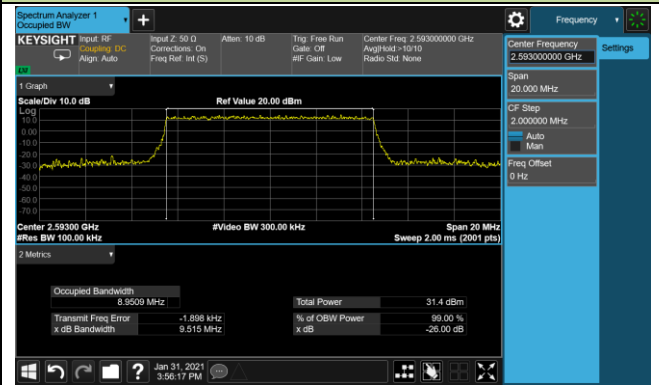


## 99% Bandwidth - 16QAM

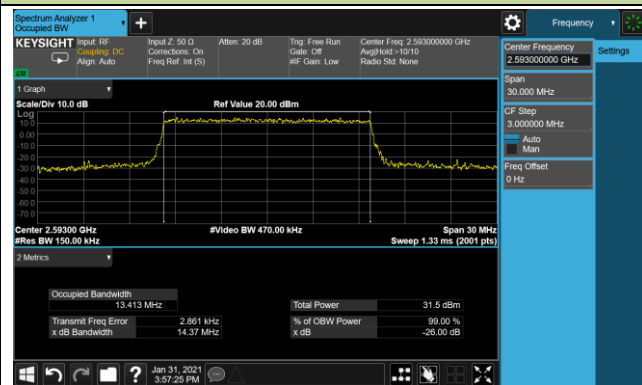
## 5MHz Channel Bandwidth



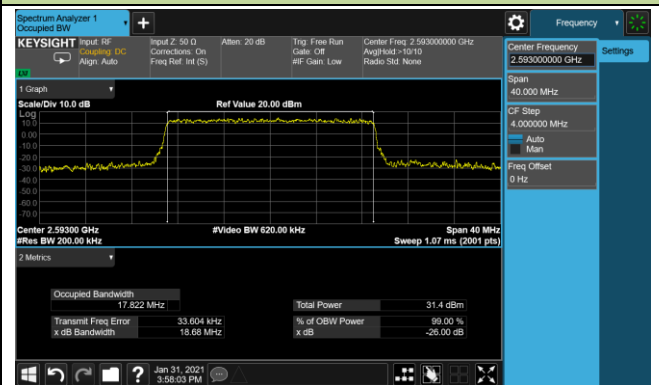
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

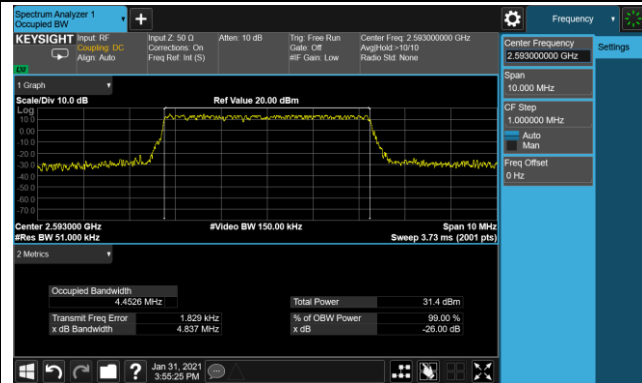


## 20MHz Channel Bandwidth

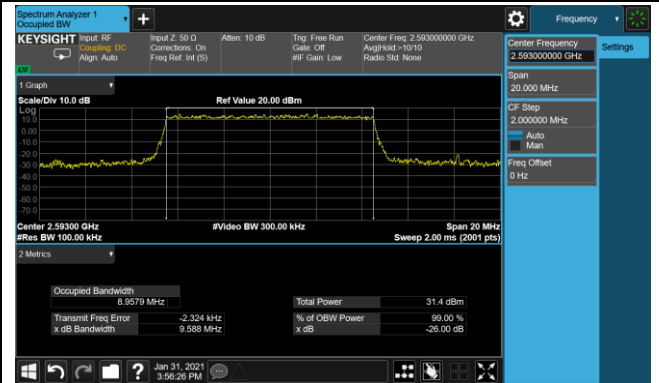


## 99% Bandwidth - 64QAM

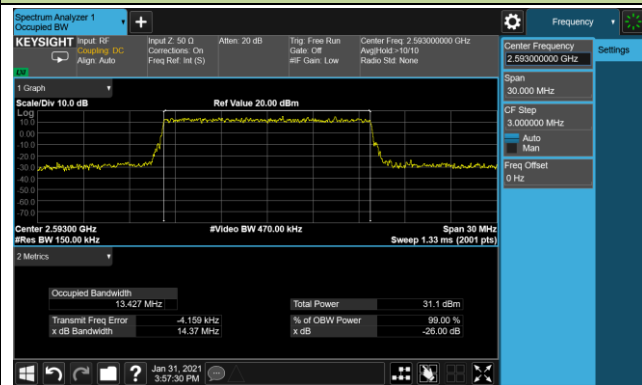
## 5MHz Channel Bandwidth



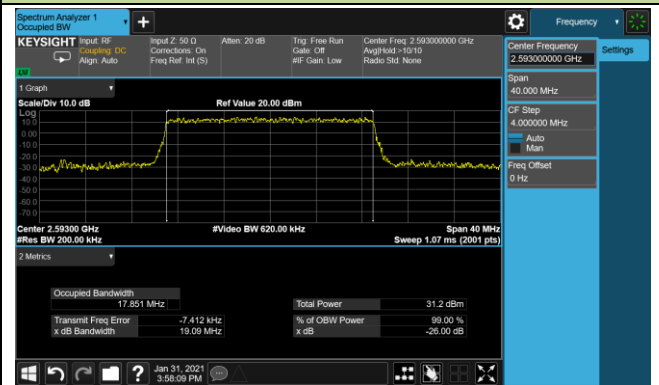
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

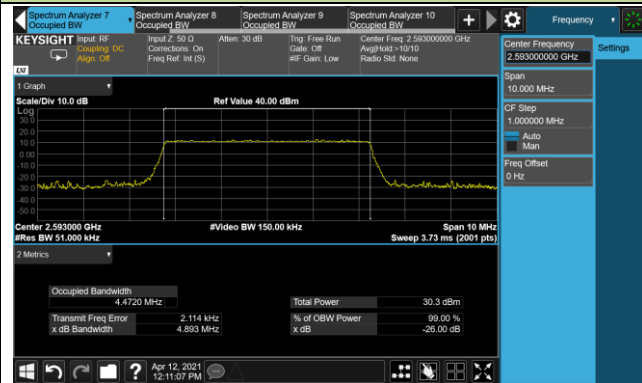


## 20MHz Channel Bandwidth

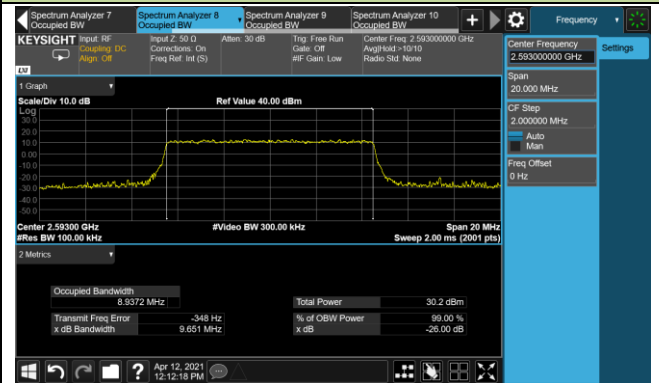


## 99% Bandwidth - 256QAM

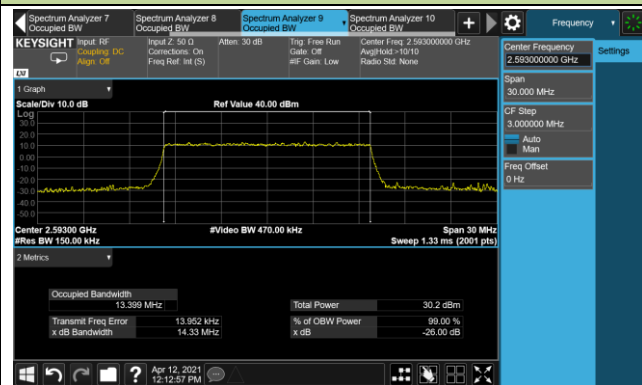
## 5MHz Channel Bandwidth



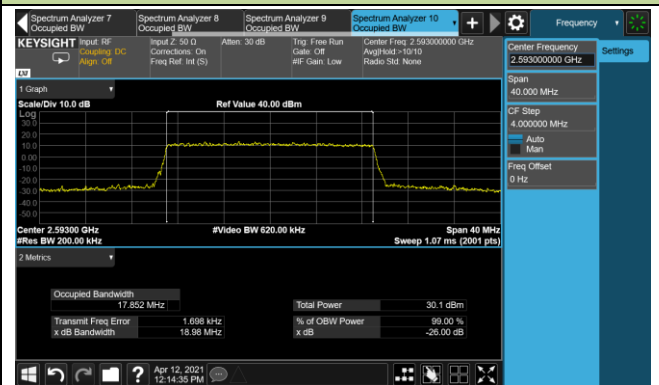
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth



## 20MHz Channel Bandwidth

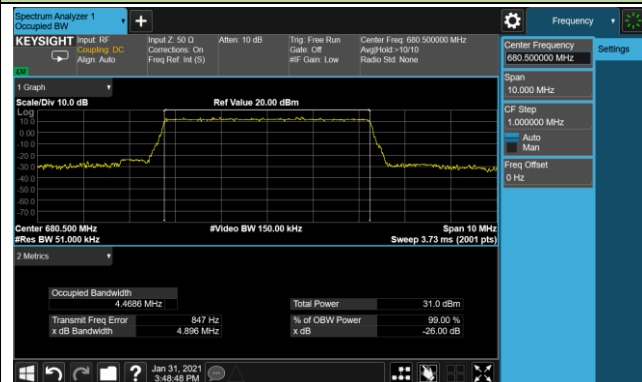


Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Candy Luo	Test Date	2021/01/31
Test Band	LTE Band 71		

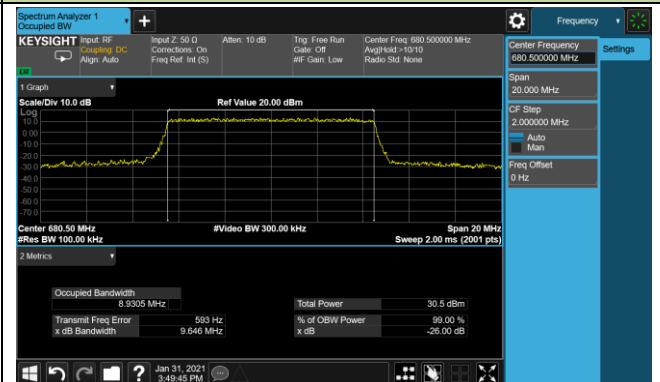
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
<b>QPSK</b>			
133297	680.5	5	4.47
		10	8.93
		15	13.41
		20	17.81
<b>16QAM</b>			
133297	680.5	5	4.46
		10	8.93
		15	13.41
		20	17.83
<b>64QAM</b>			
133297	680.5	5	4.46
		10	8.92
		15	13.41
		20	17.87
<b>256QAM</b>			
133297	680.5	5	4.47
		10	8.92
		15	13.40
		20	17.84

## 99% Bandwidth - QPSK

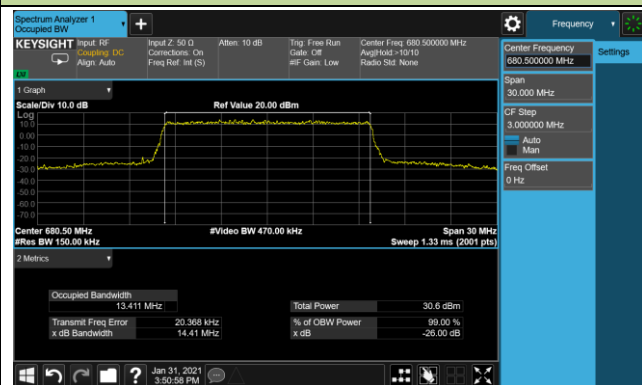
## 5MHz Channel Bandwidth



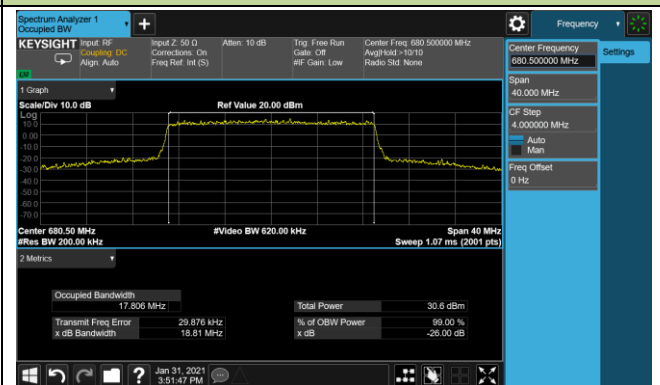
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

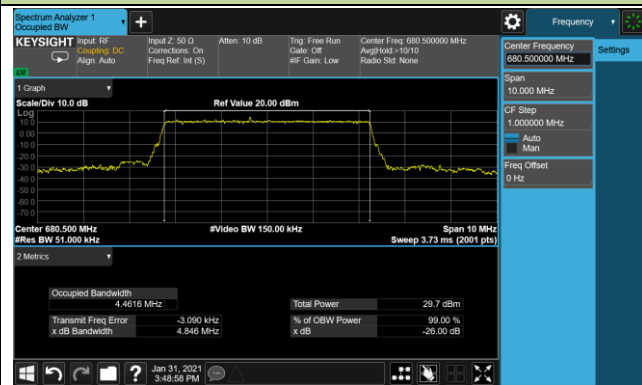


## 20MHz Channel Bandwidth



## 99% Bandwidth - 16QAM

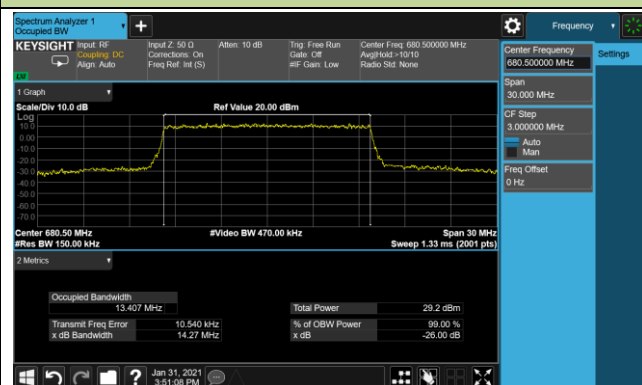
## 5MHz Channel Bandwidth



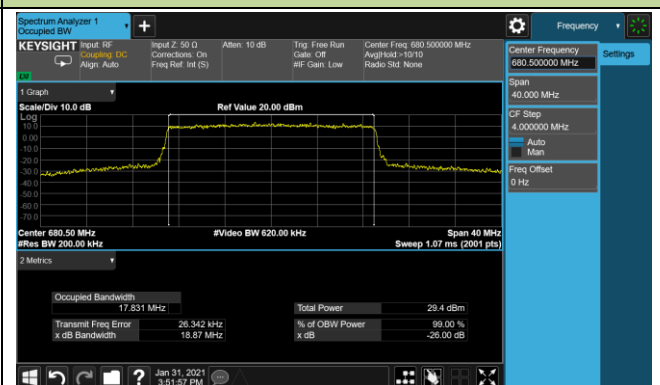
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

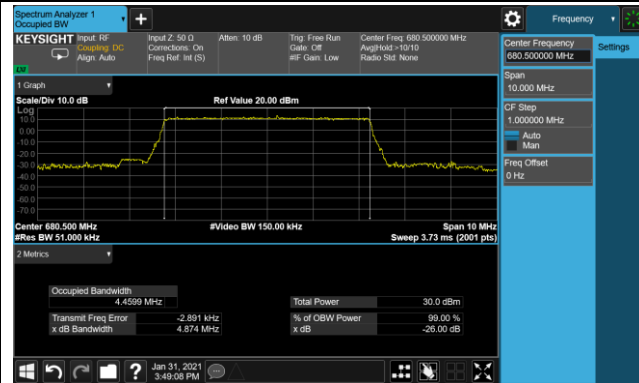


## 20MHz Channel Bandwidth

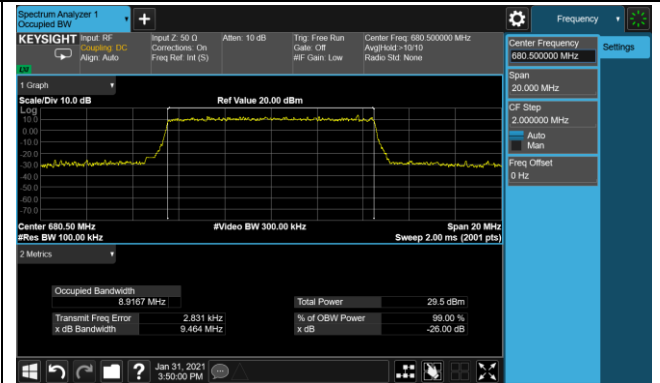


## 99% Bandwidth - 64QAM

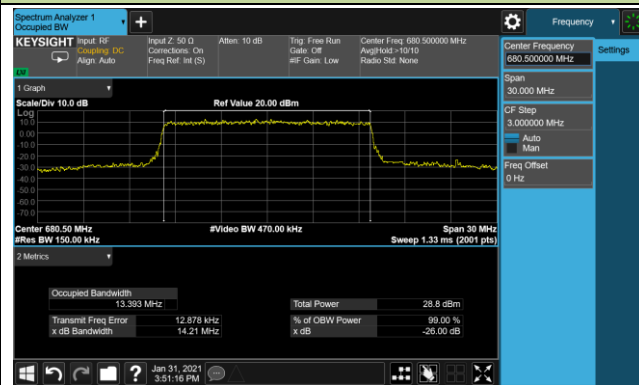
## 5MHz Channel Bandwidth



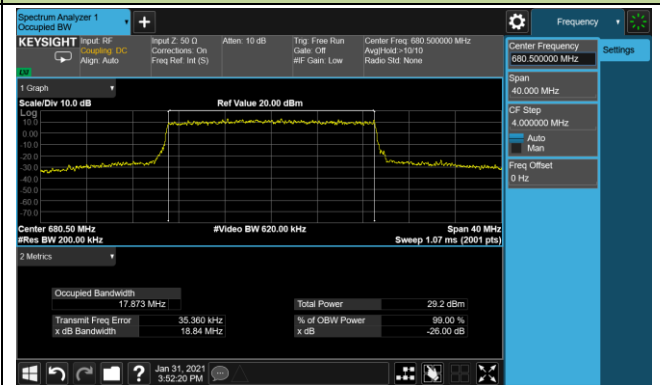
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth

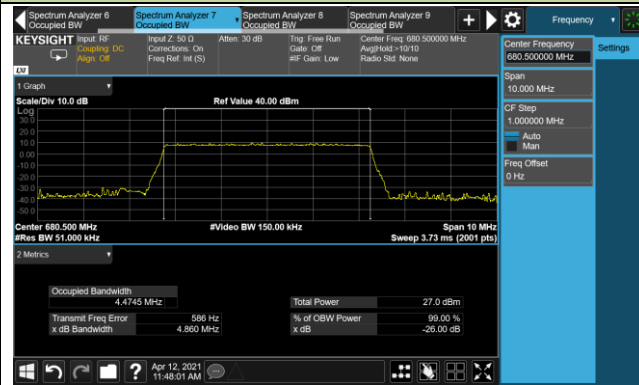


## 20MHz Channel Bandwidth

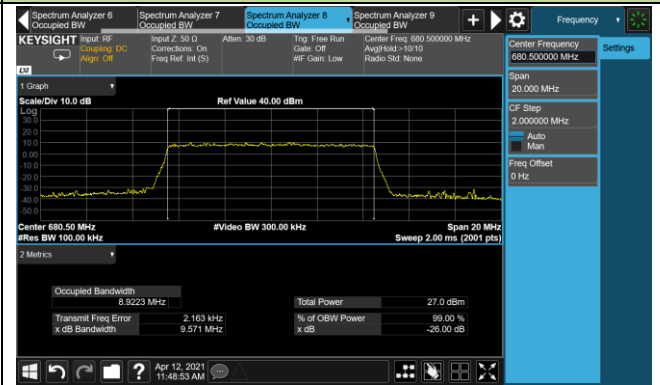


## 99% Bandwidth - 256QAM

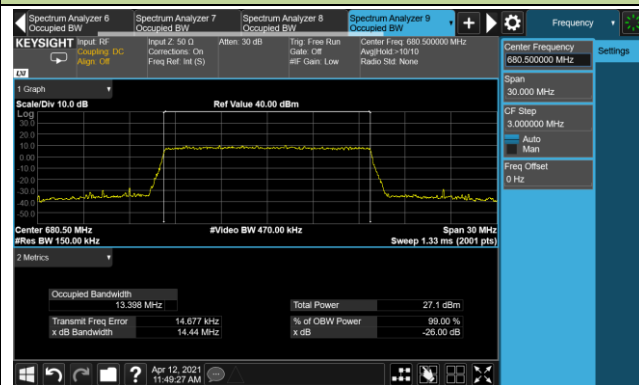
## 5MHz Channel Bandwidth



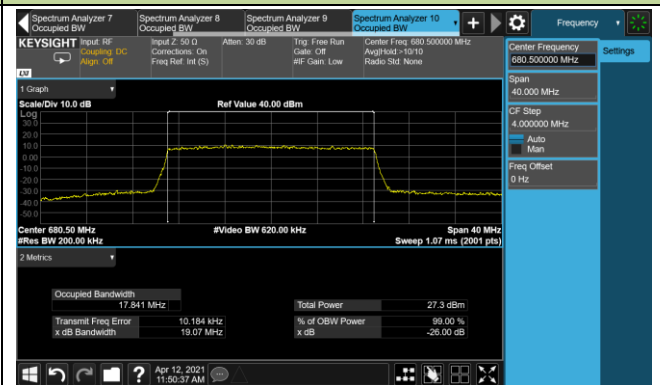
## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth



## 20MHz Channel Bandwidth





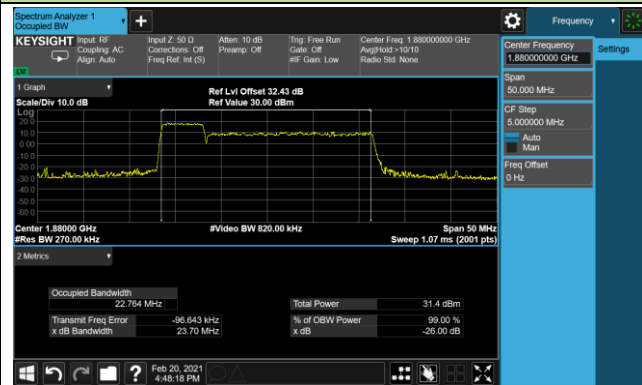
Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR6
Test Engineer	Candy Luo	Test Date	2021/02/20
Test Band	Intra-Band CA_2C		

Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	1870.8 + 1882.5	5+20	22.76
	1872.9 + 1884.9	10+15	23.02
	1870.6 + 1885.0	10+20	27.68
	1875.1 + 1887.1	15+10	23.04
	1872.5 + 1887.5	15+15	28.31
	1870.3 + 1887.4	15+20	32.51
	1877.5 + 1889.2	20+5	22.84
	1875.1 + 1889.5	20+10	27.71
	1872.6 + 1889.7	20+15	32.65
	1870.1 + 1889.9	20+20	37.35
16QAM	1870.8 + 1882.5	5+20	22.72
	1872.9 + 1884.9	10+15	23.02
	1870.6 + 1885.0	10+20	27.62
	1875.1 + 1887.1	15+10	23.04
	1872.5 + 1887.5	15+15	28.20
	1870.3 + 1887.4	15+20	32.56
	1877.5 + 1889.2	20+5	22.81
	1875.1 + 1889.5	20+10	27.66
	1872.6 + 1889.7	20+15	32.62
	1870.1+ 1889.9	20+20	37.36
64QAM	1870.8 + 1882.5	5+20	22.75
	1872.9 + 1884.9	10+15	23.02
	1870.6 + 1885.0	10+20	27.65
	1875.1 + 1887.1	15+10	23.05
	1872.5 + 1887.5	15+15	28.23
	1870.3 + 1887.4	15+20	32.48
	1877.5 + 1889.2	20+5	22.80
	1875.1 + 1889.5	20+10	27.69
	1872.6 + 1889.7	20+15	32.62
	1870.1 + 1889.9	20+20	37.36

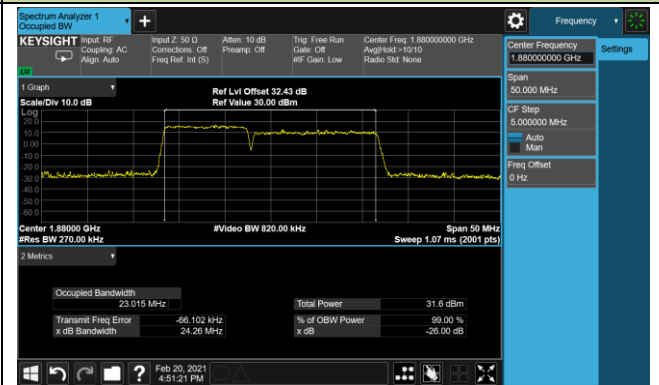
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
256QAM	1870.8 + 1882.5	5+20	22.57
	1872.9 + 1884.9	10+15	23.00
	1870.6 + 1885.0	10+20	27.62
	1875.1 + 1887.1	15+10	23.01
	1872.5 + 1887.5	15+15	28.19
	1870.3 + 1887.4	15+20	32.52
	1877.5 + 1889.2	20+5	22.82
	1875.1 + 1889.5	20+10	27.66
	1872.6 + 1889.7	20+15	32.50
	1870.1 + 1889.9	20+20	37.34

## 99% Bandwidth - QPSK

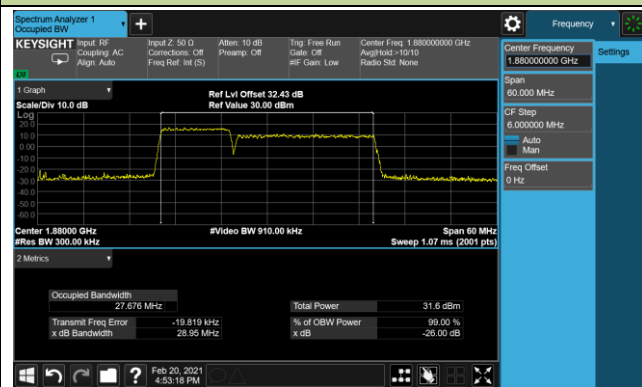
## 5+20MHz Channel Bandwidth



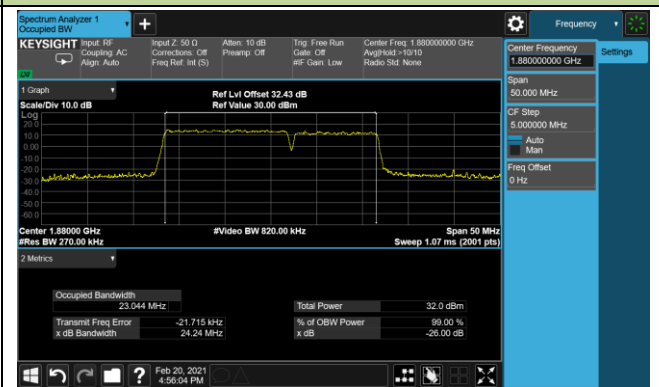
## 10+15MHz Channel Bandwidth



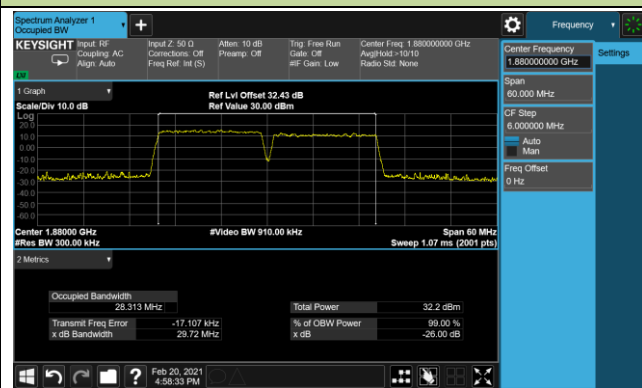
## 10+20MHz Channel Bandwidth



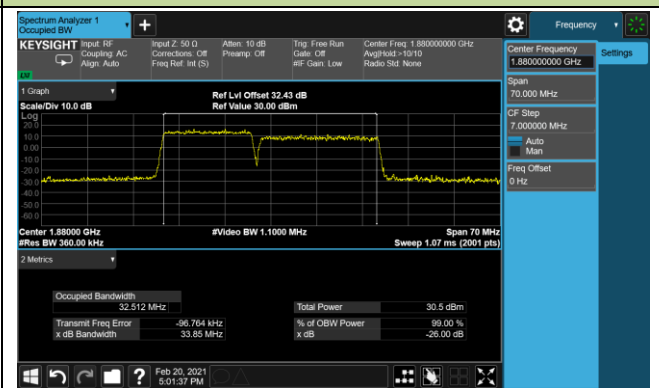
## 15+10MHz Channel Bandwidth

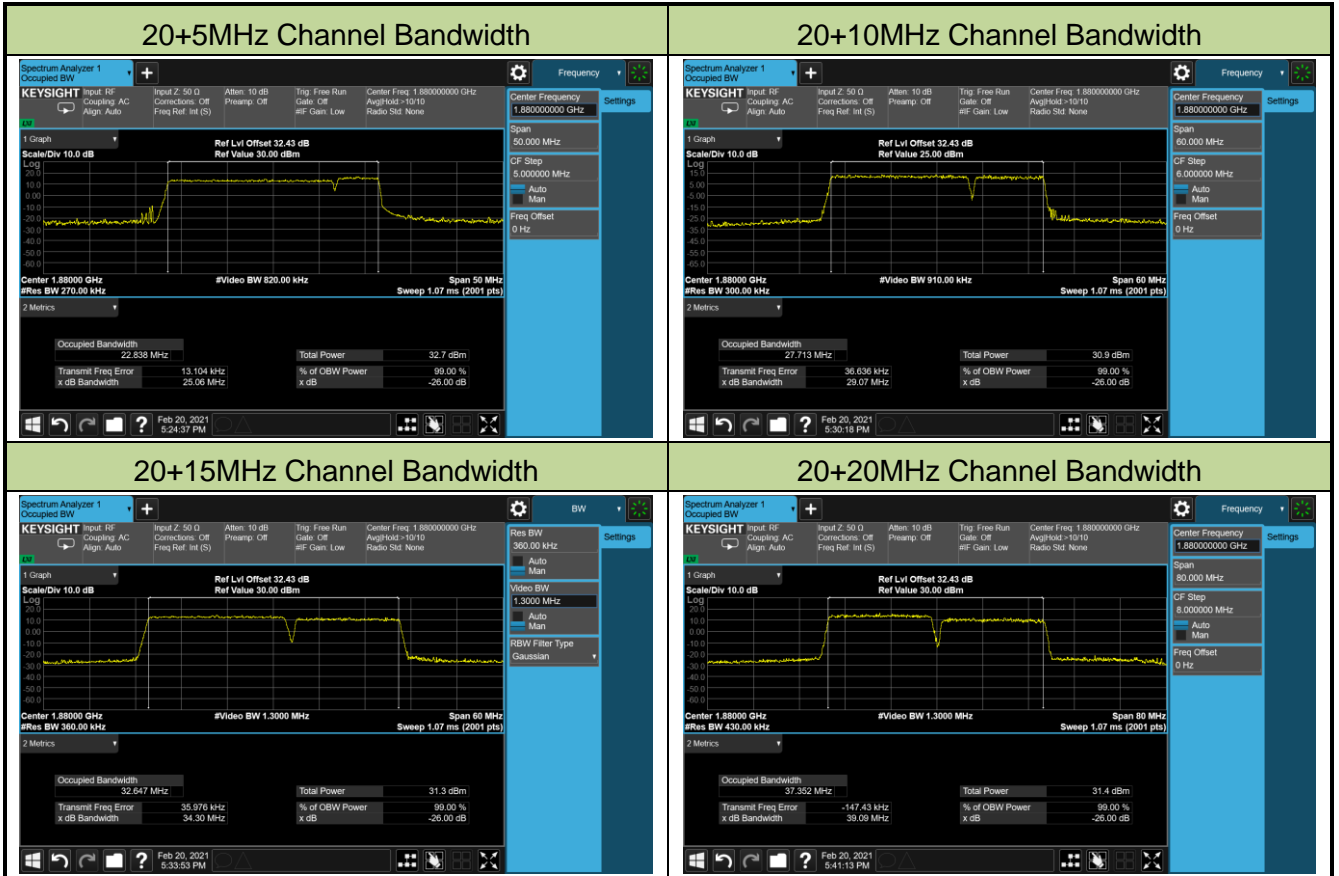


## 15+15MHz Channel Bandwidth



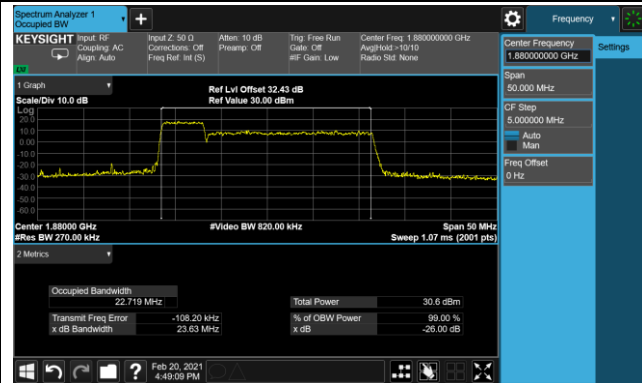
## 15+20MHz Channel Bandwidth



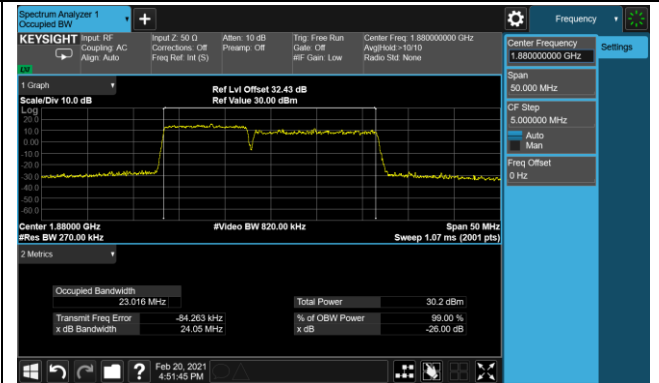


## 99% Bandwidth - 16QAM

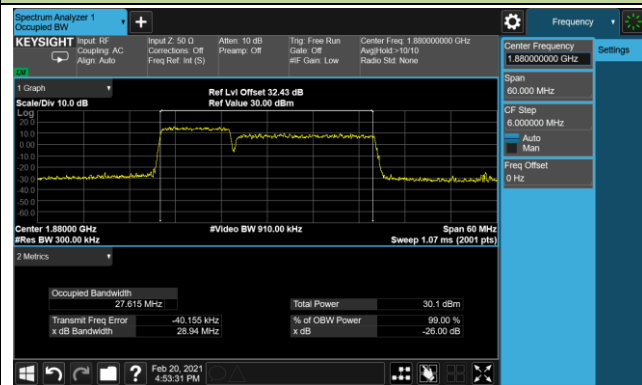
## 5+20MHz Channel Bandwidth



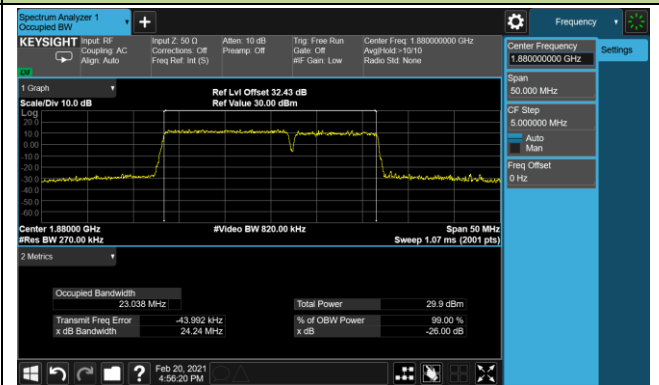
## 10+15MHz Channel Bandwidth



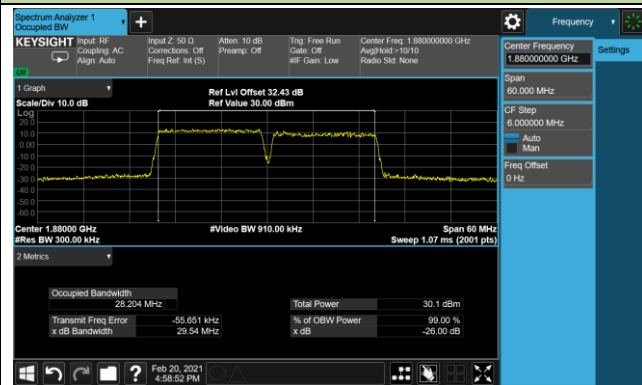
## 10+20MHz Channel Bandwidth



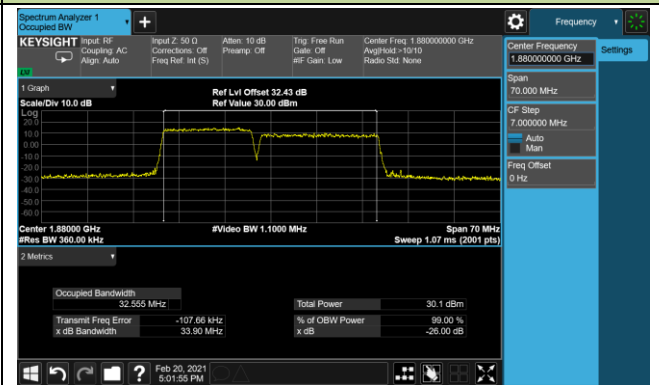
## 15+10MHz Channel Bandwidth



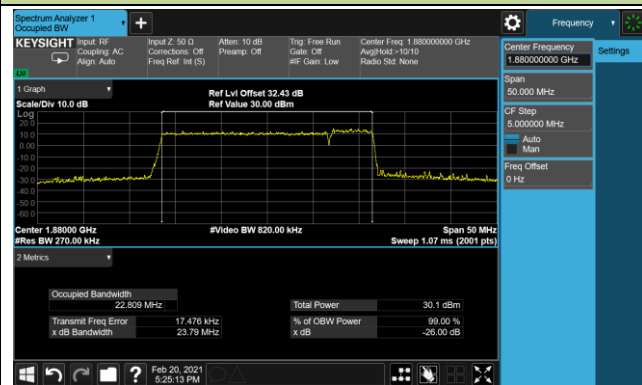
## 15+15MHz Channel Bandwidth



## 15+20MHz Channel Bandwidth



## 20+5MHz Channel Bandwidth



## 20+10MHz Channel Bandwidth

