

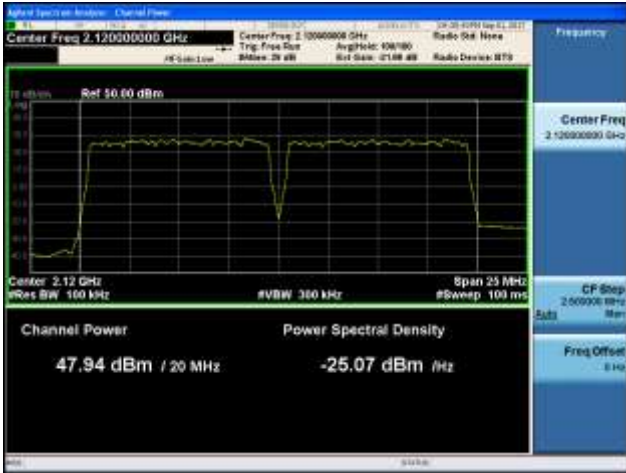


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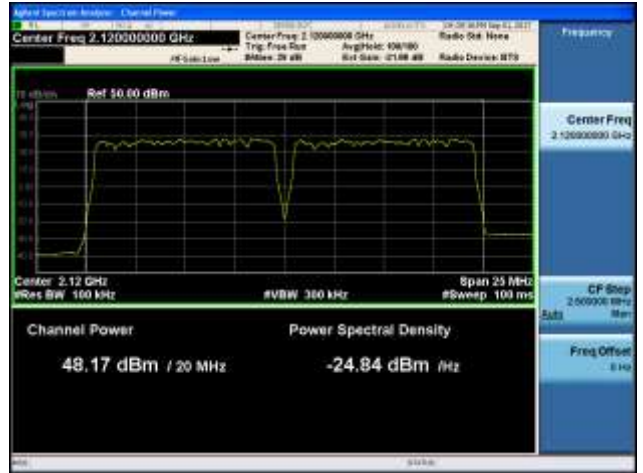
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Non-Contiguous), 2TX, Bottom**

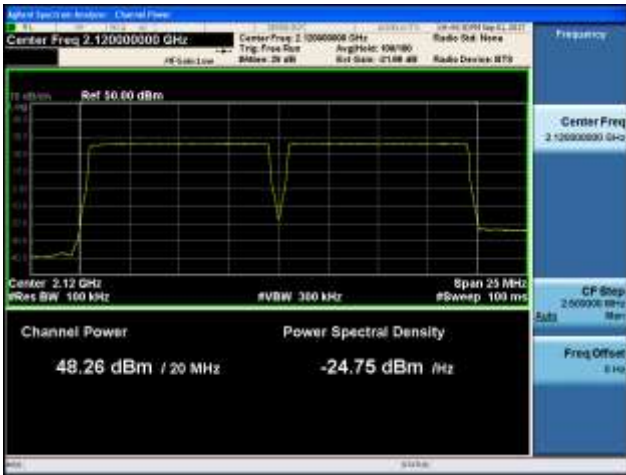
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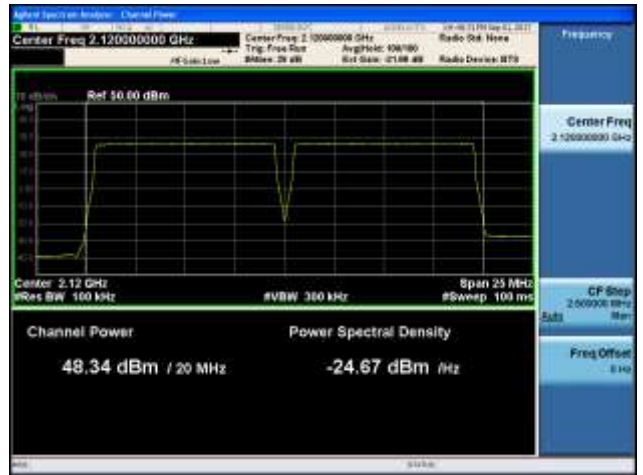
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64QAM



256QAM



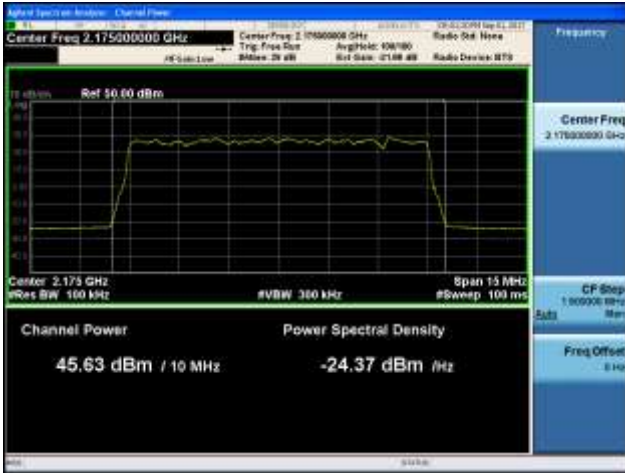


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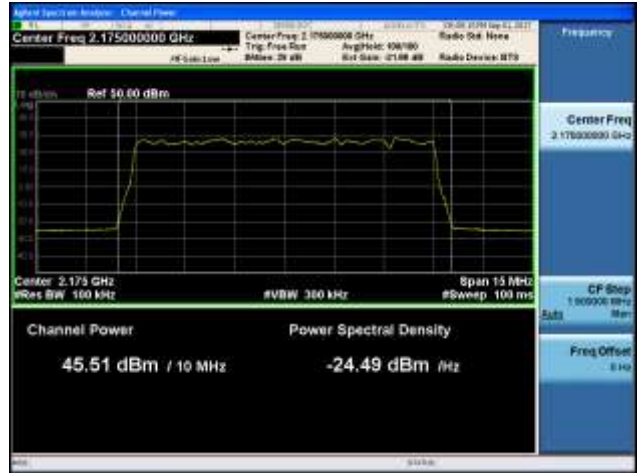
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Non-Contiguous), 2TX, Top**

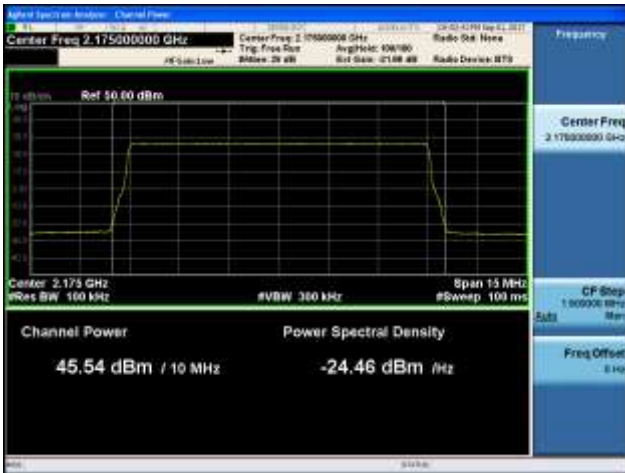
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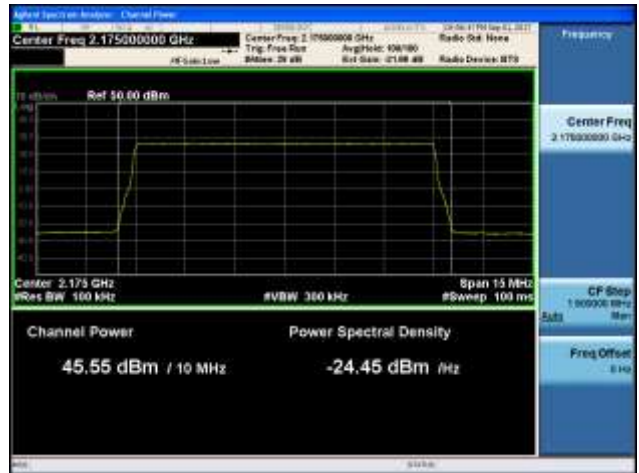
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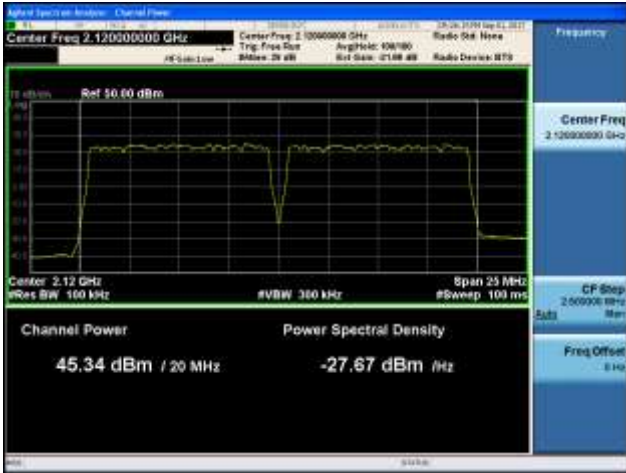


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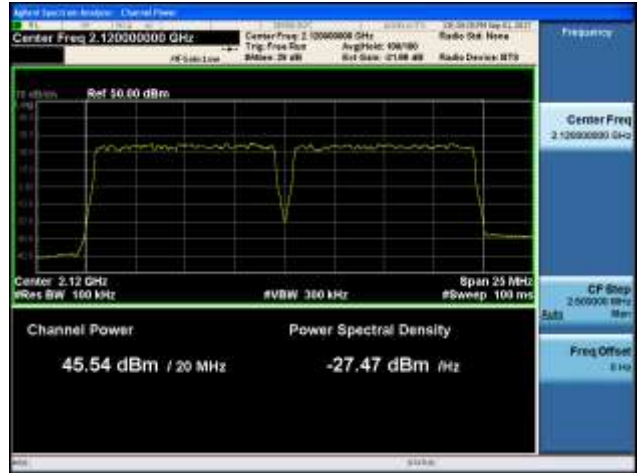
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Non-Contiguous), 4TX, Bottom**

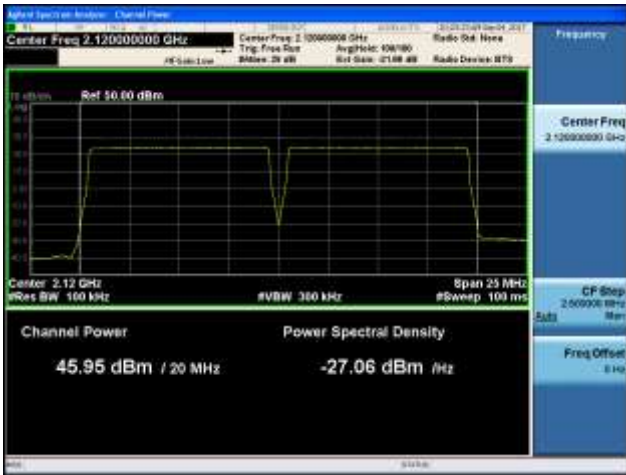
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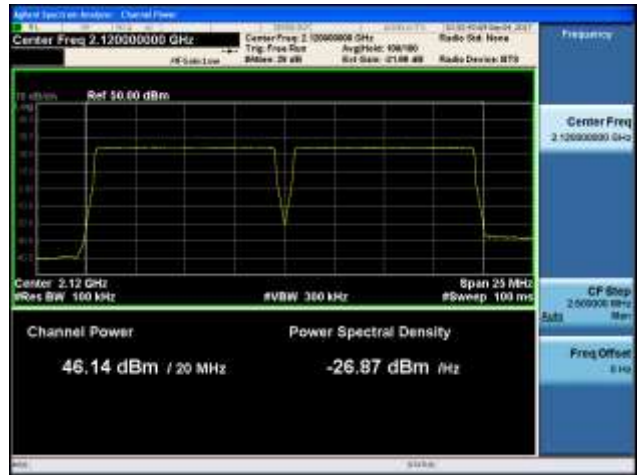
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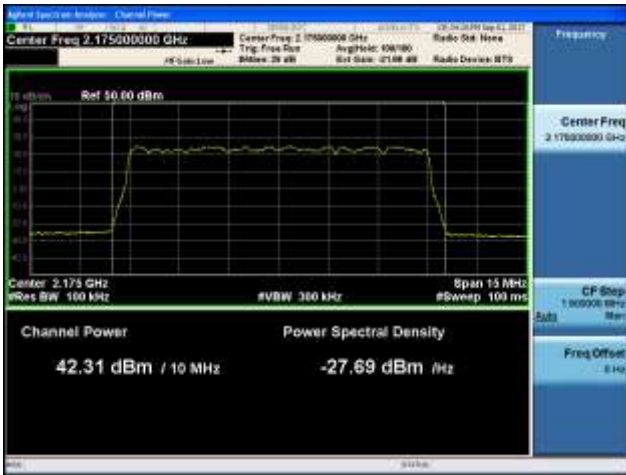


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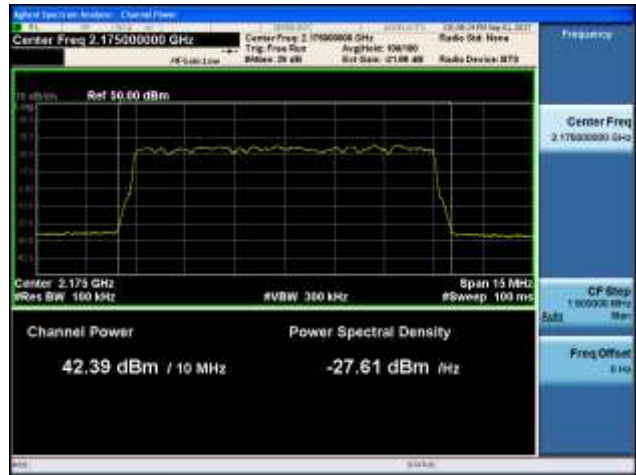
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Non-Contiguous), 4TX, Top**

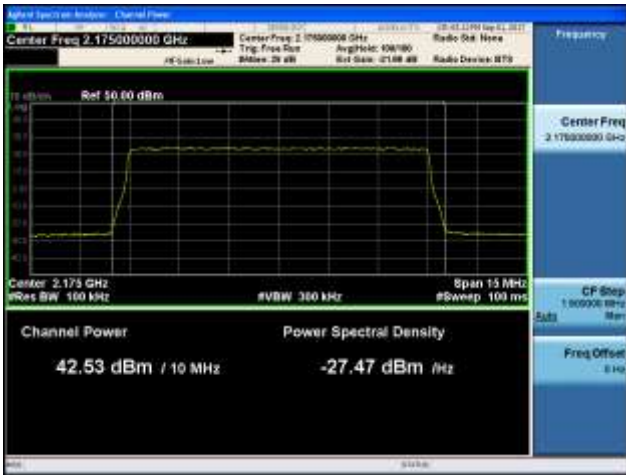
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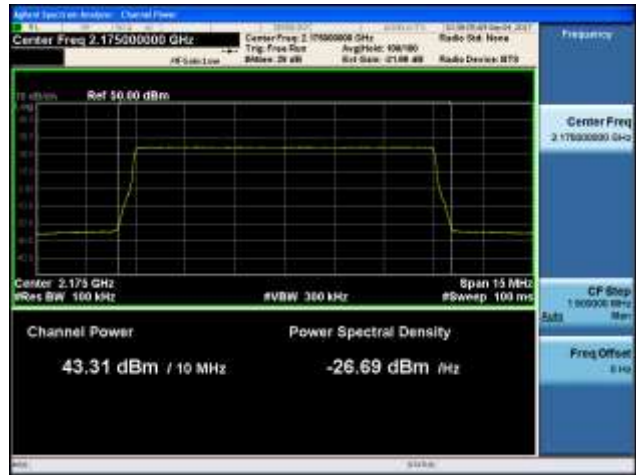
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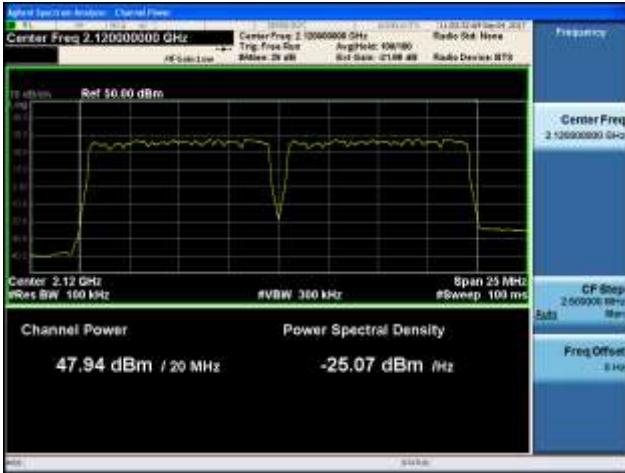


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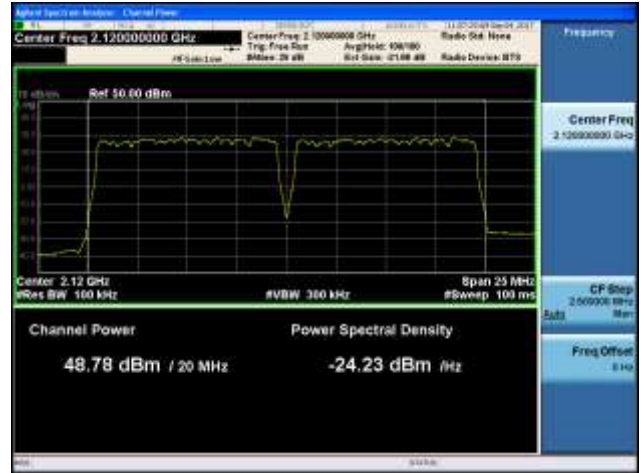
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**Band 66, BW 10MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 2TX, Bottom**

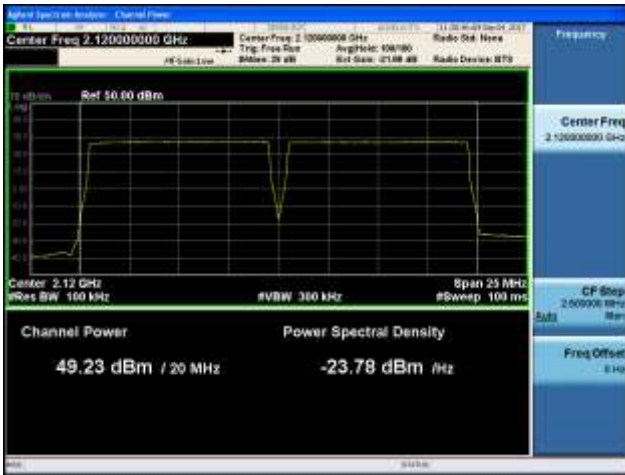
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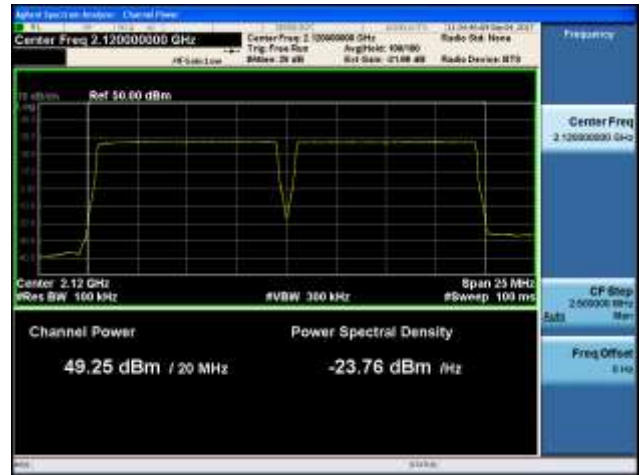
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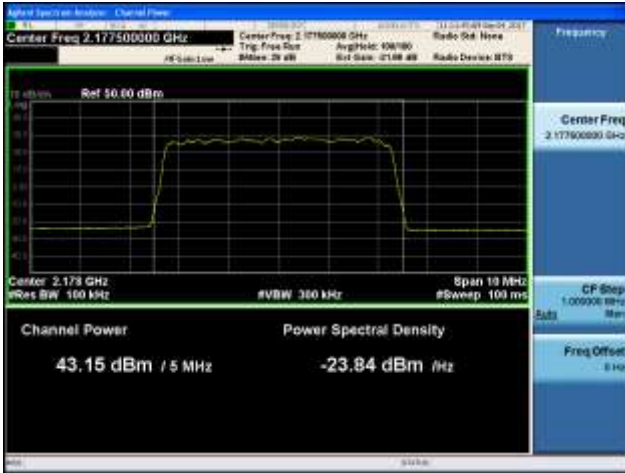


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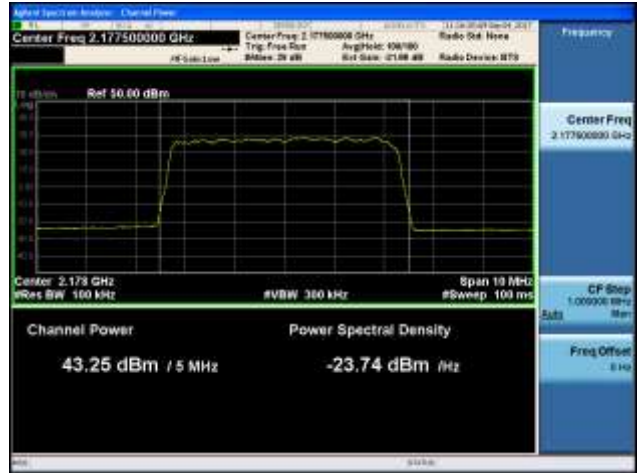
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**Band 66, BW 10MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 2TX, Top**

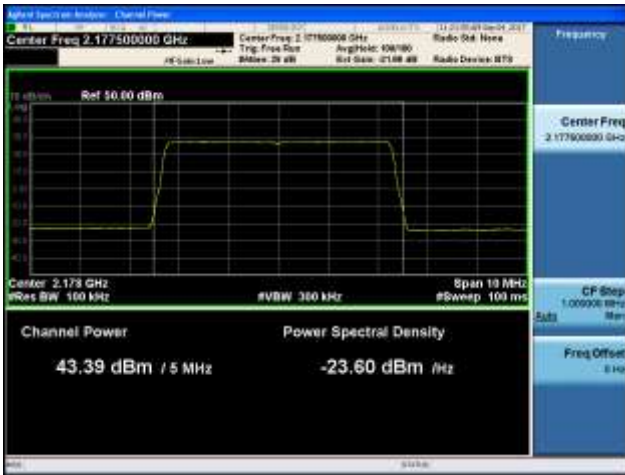
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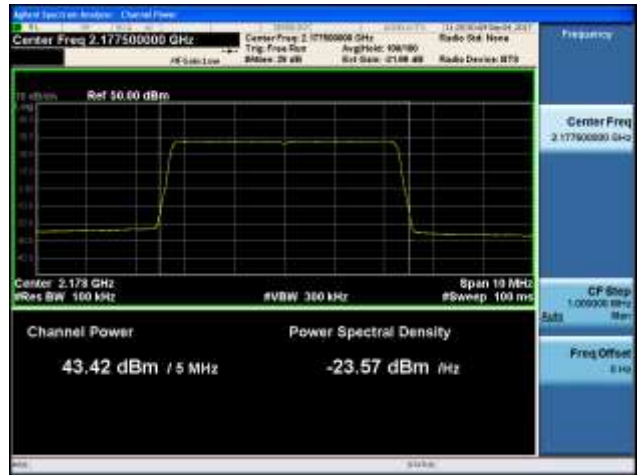
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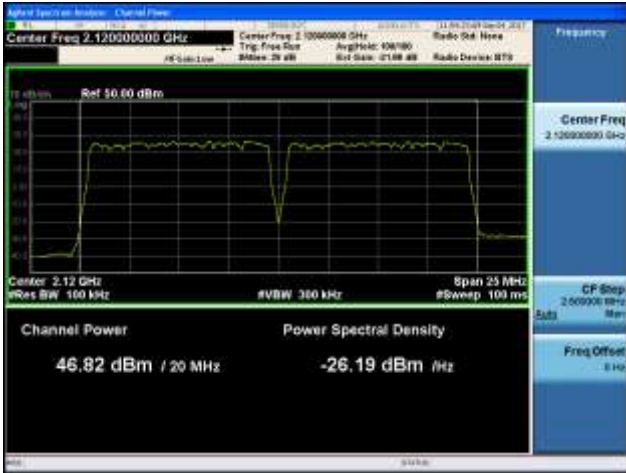


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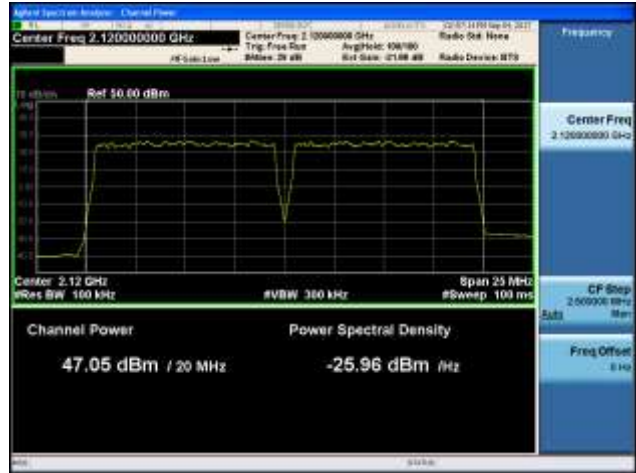
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**Band 66, BW 10MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 4TX, Bottom**

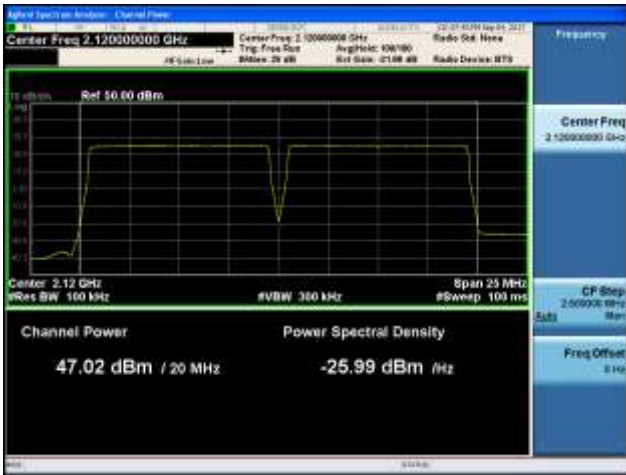
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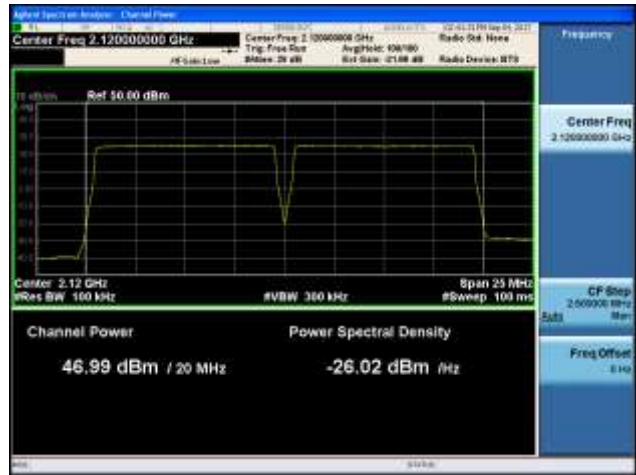
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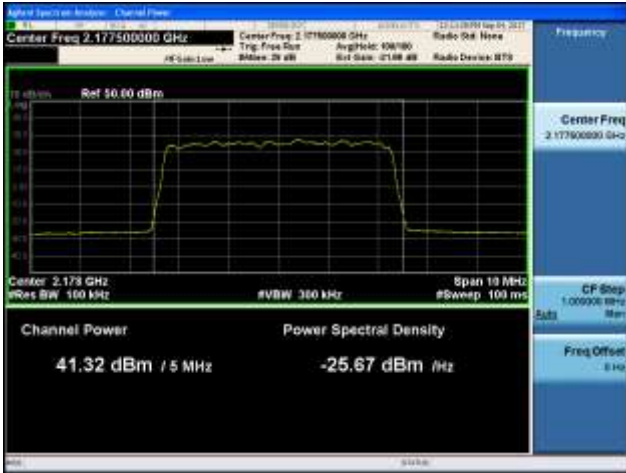


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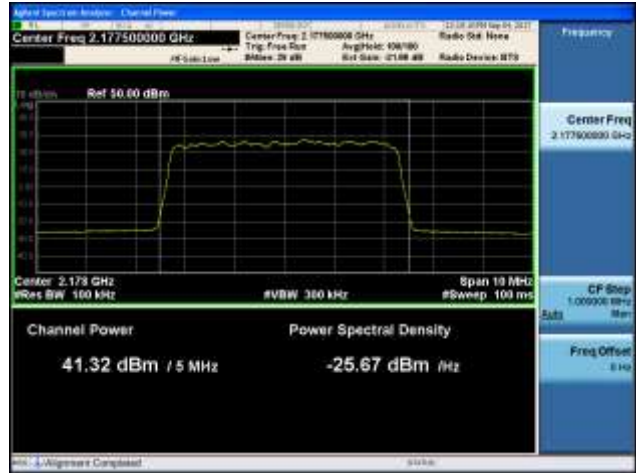
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**Band 66, BW 10MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 4TX, Top**

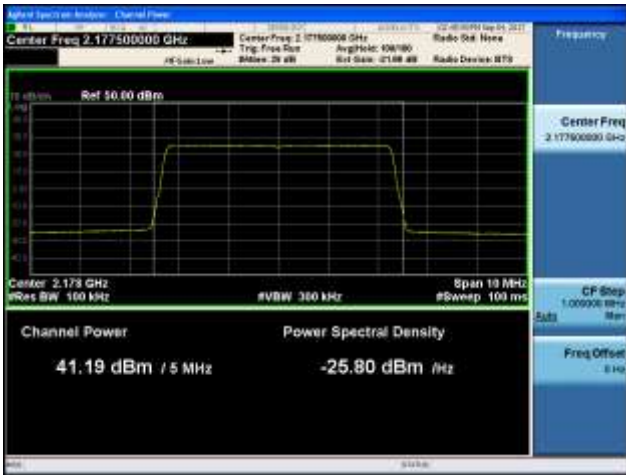
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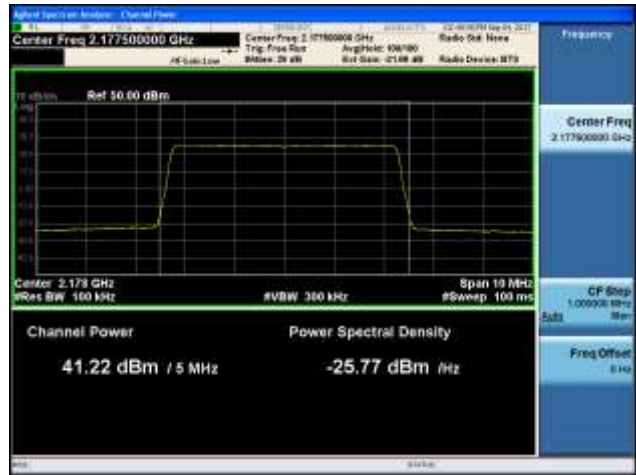
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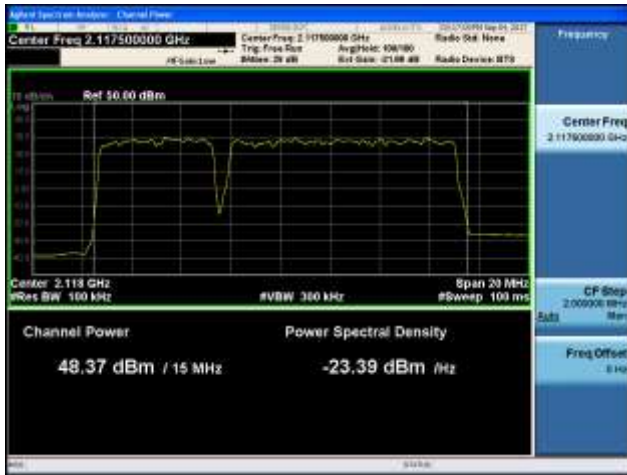


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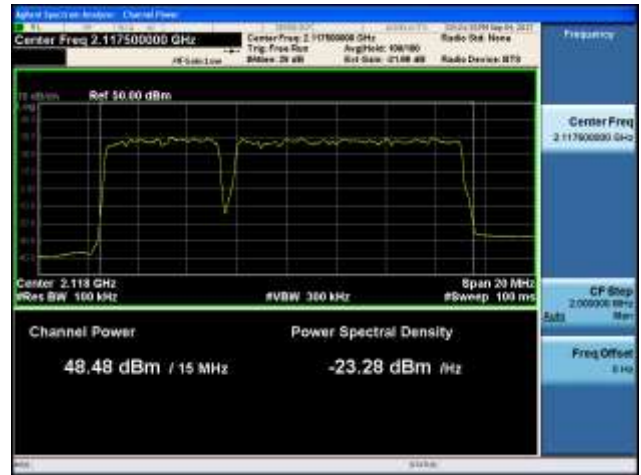
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 2TX, Bottom**

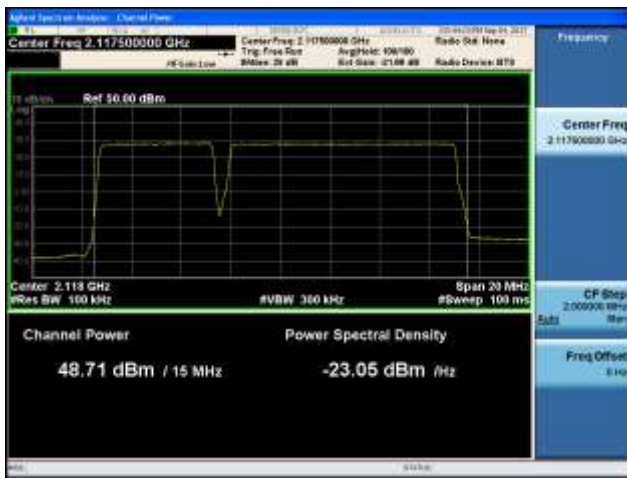
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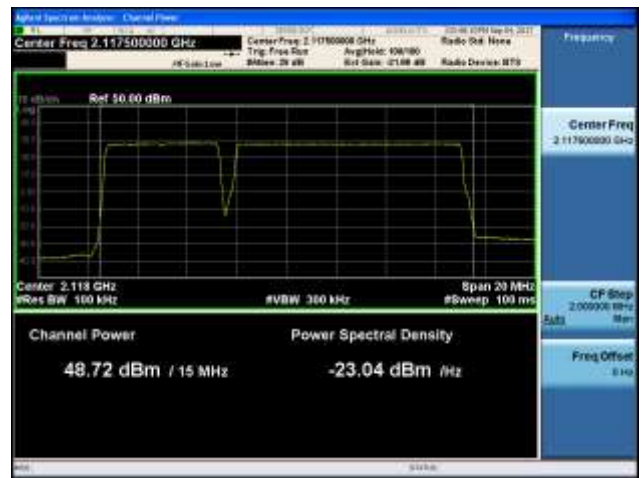
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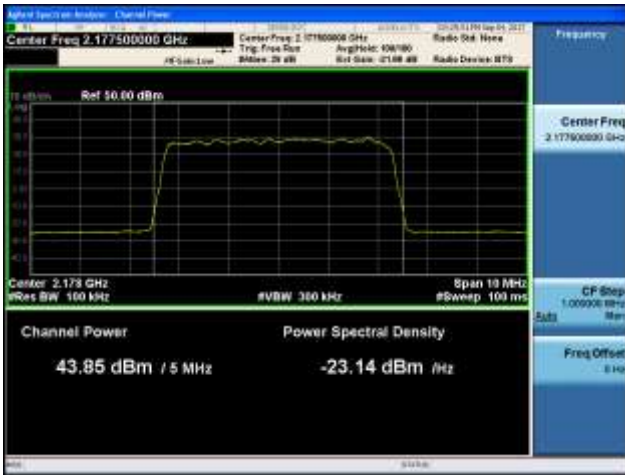
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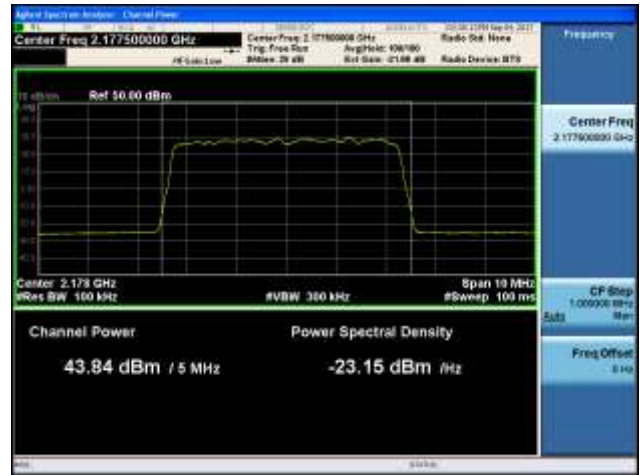


**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 2TX, Top**

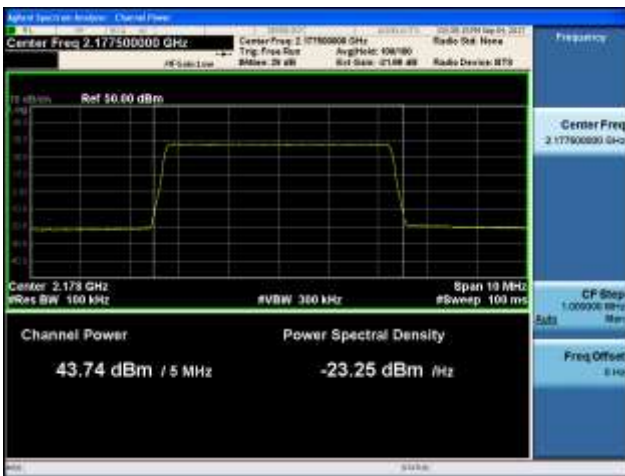
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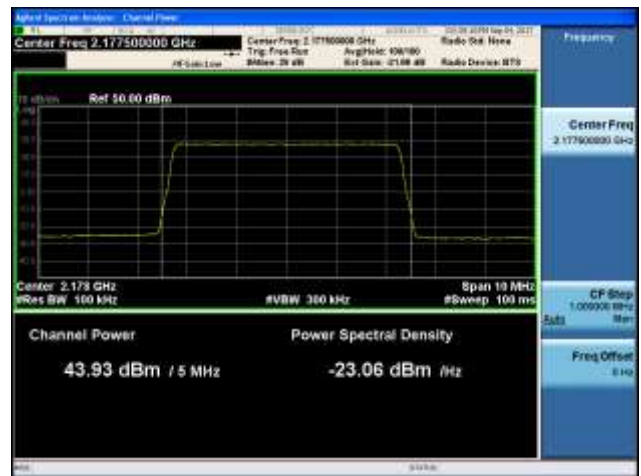
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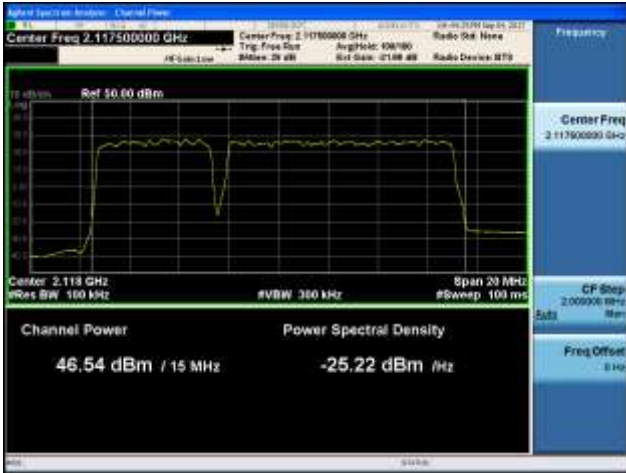


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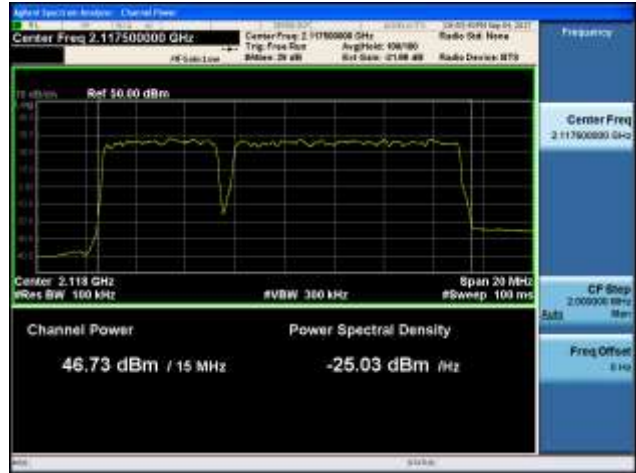
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 4TX, Bottom**

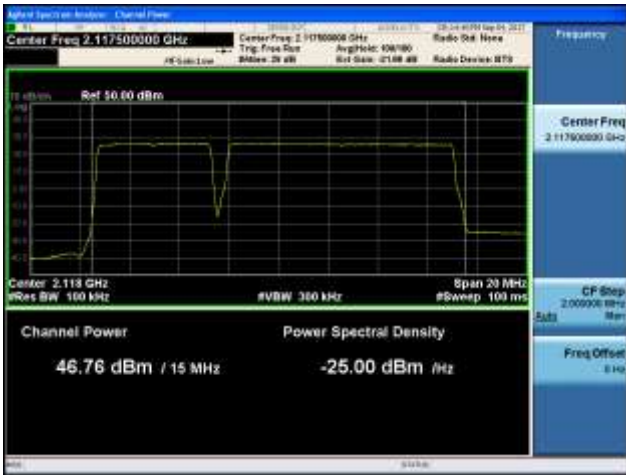
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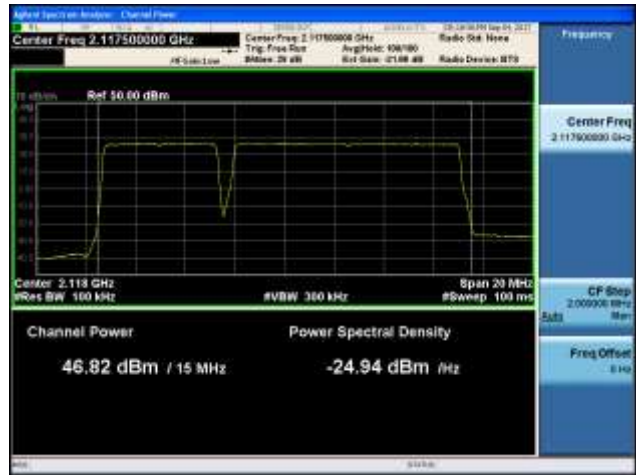
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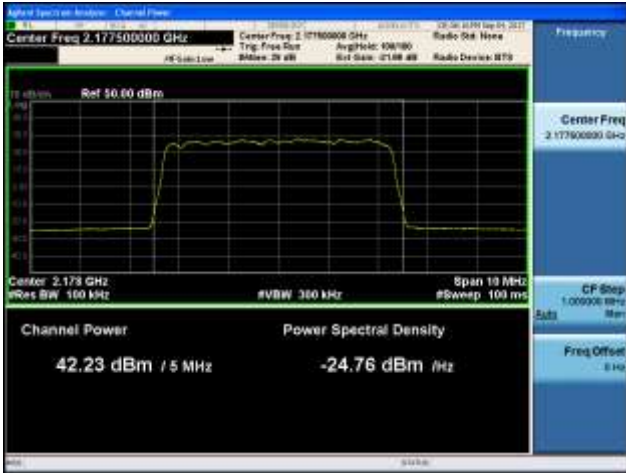


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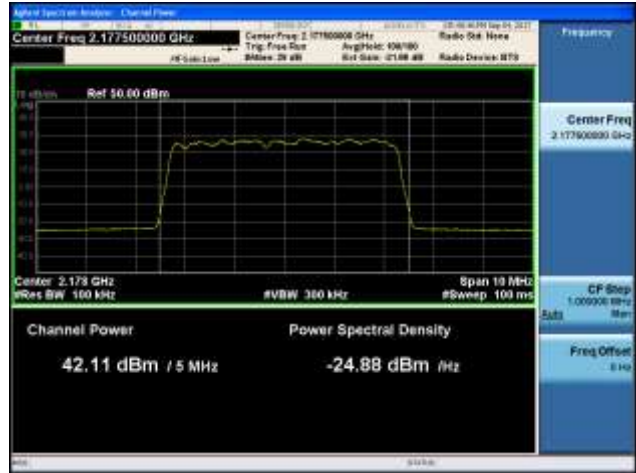
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Non-Contiguous), 4TX, Top**

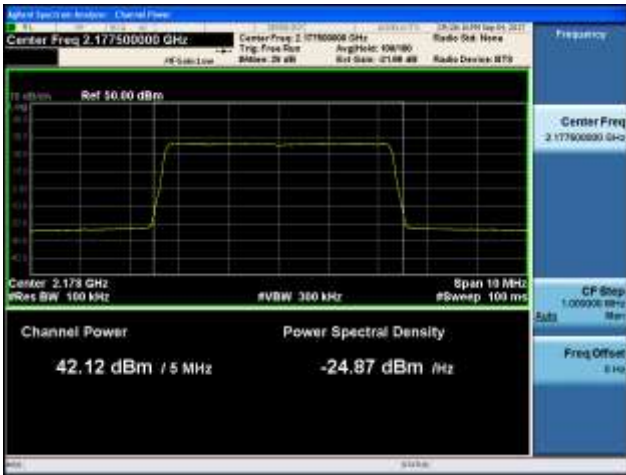
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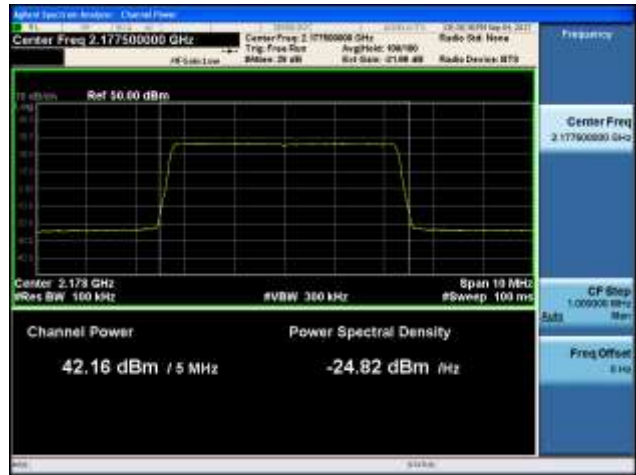
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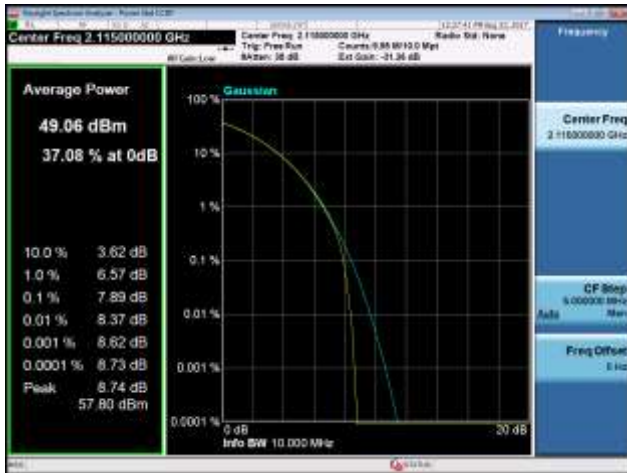


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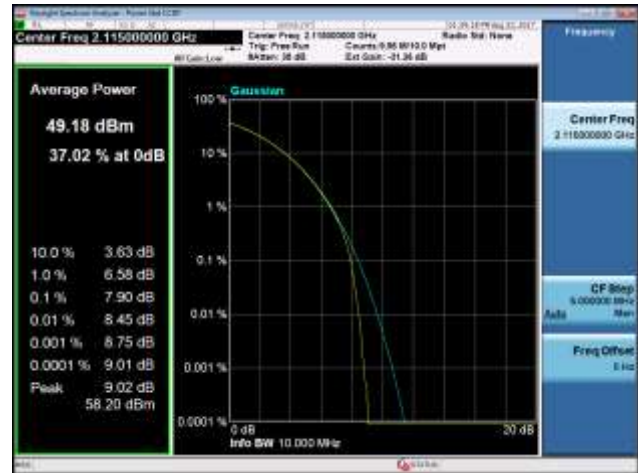


**Band 66, BW 10MHz, Single carrier, 2TX, Bottom**

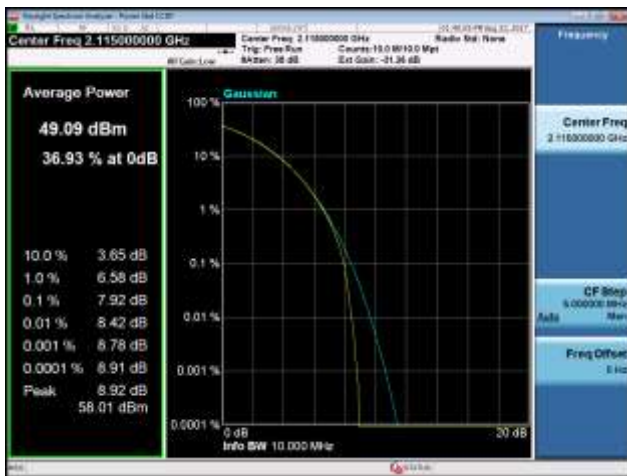
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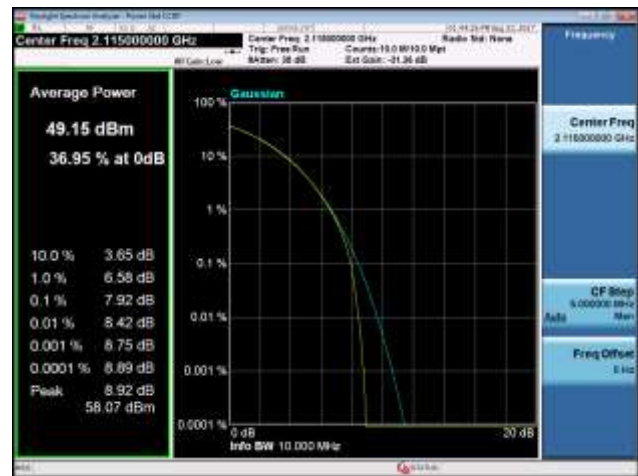
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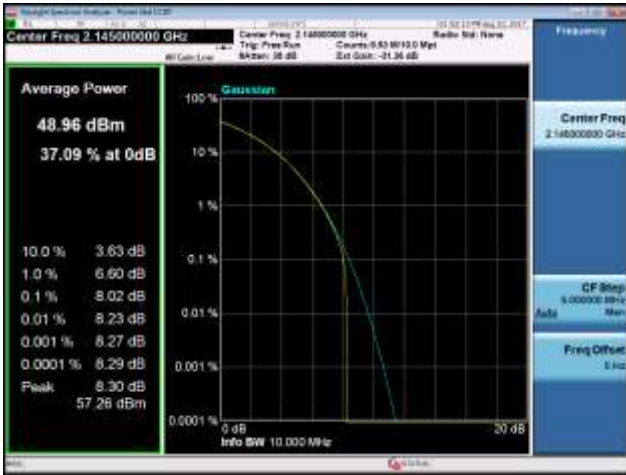


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**Band 66, BW 10MHz, Single carrier, 2TX, Middle**

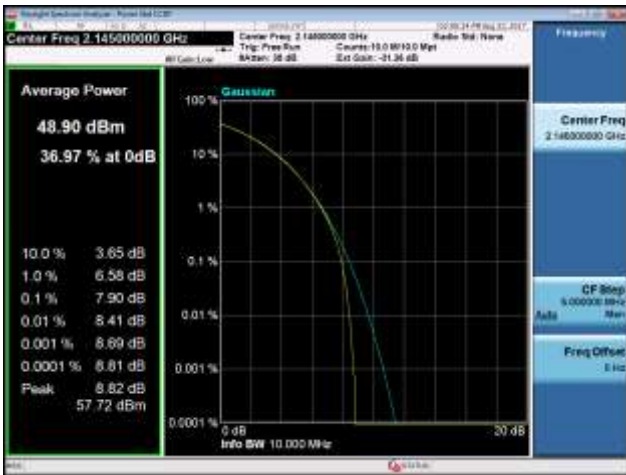
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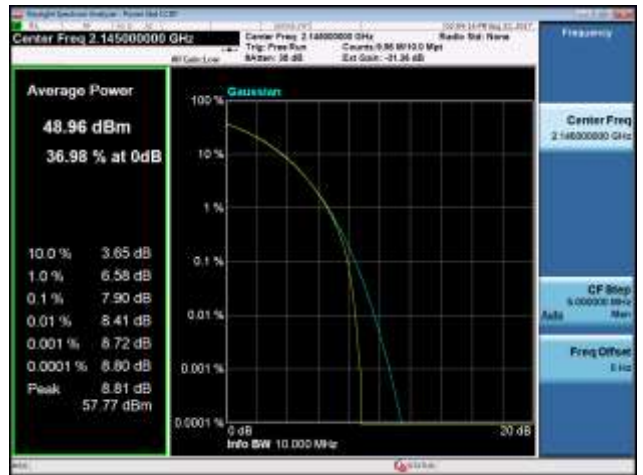
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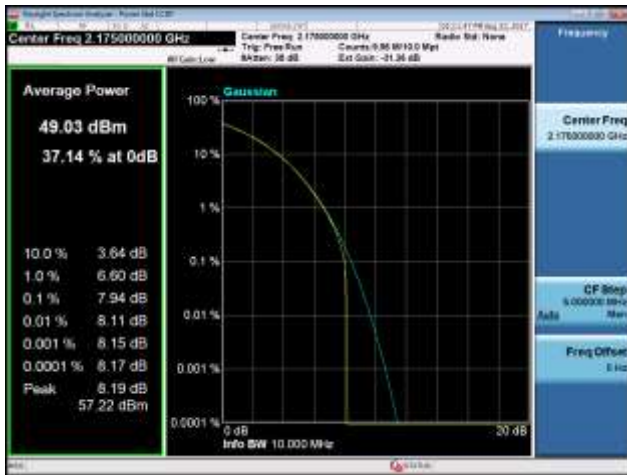


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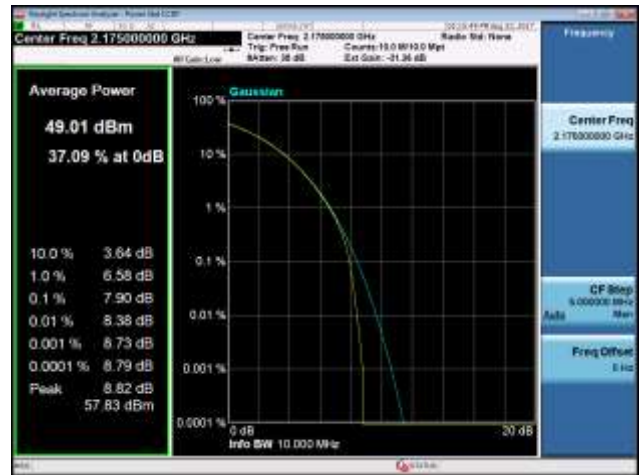
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**Band 66, BW 10MHz, Single carrier, 2TX, Top**

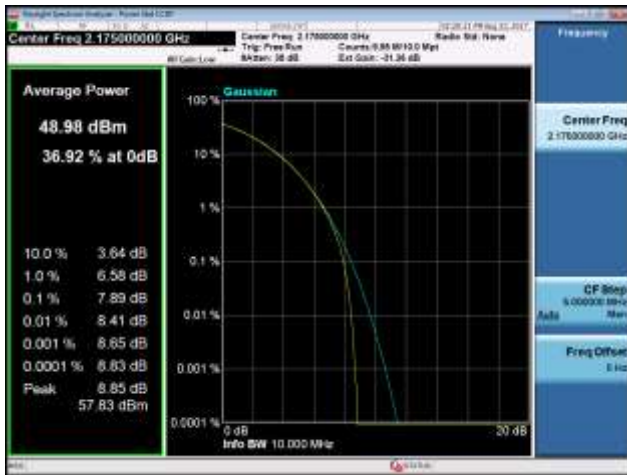
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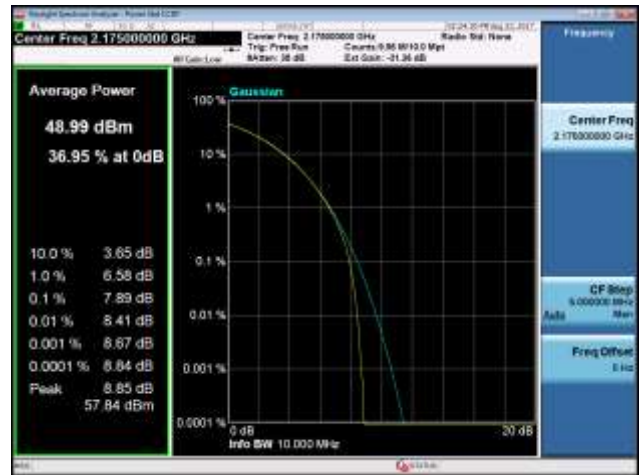
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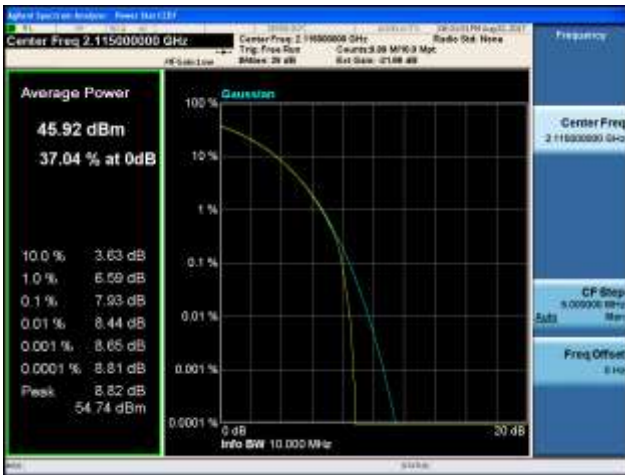
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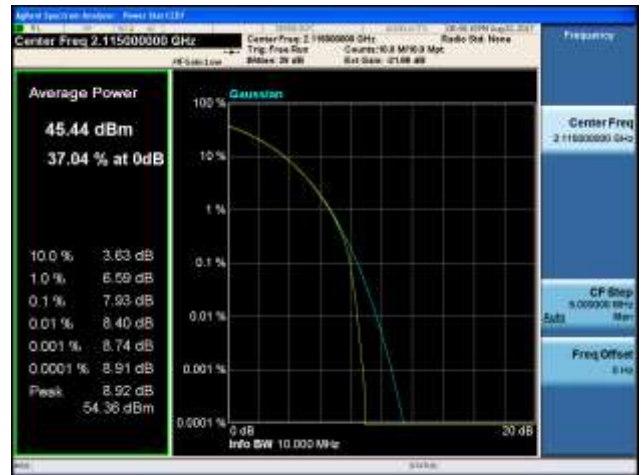


**Band 66, BW 10MHz, Single carrier, 4TX, Bottom**

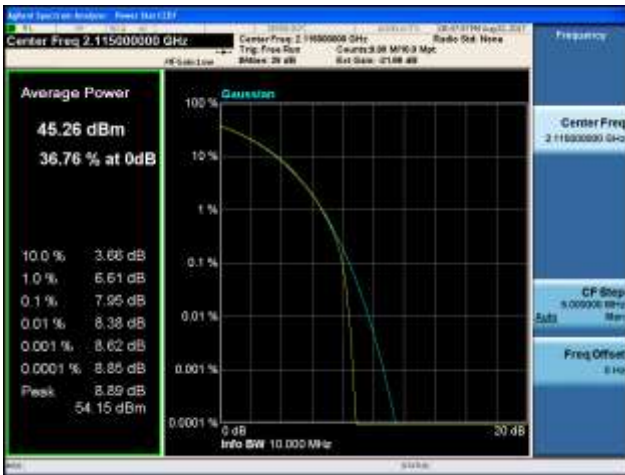
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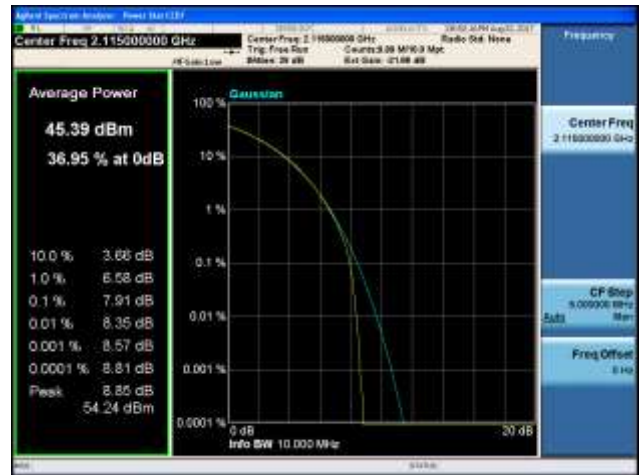
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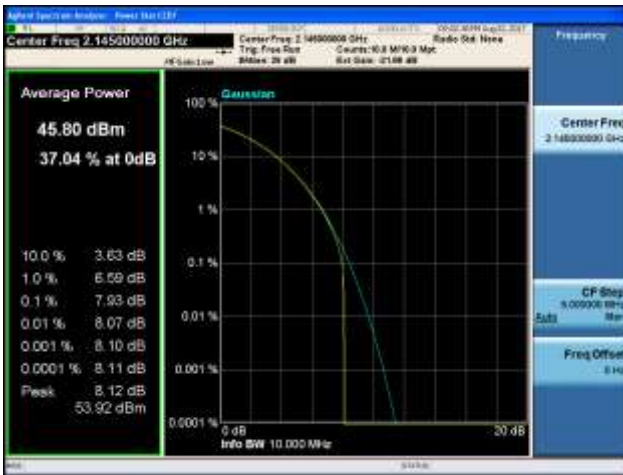


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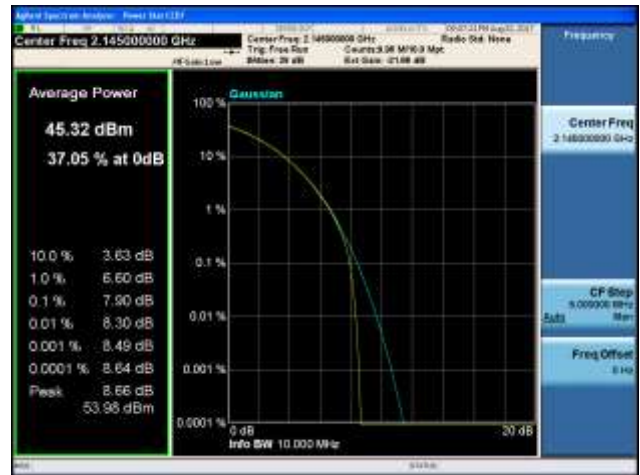


**Band 66, BW 10MHz, Single carrier, 4TX, Middle**

QPSK



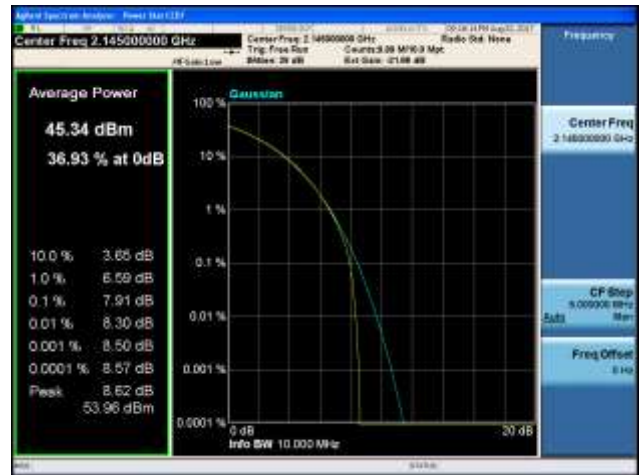
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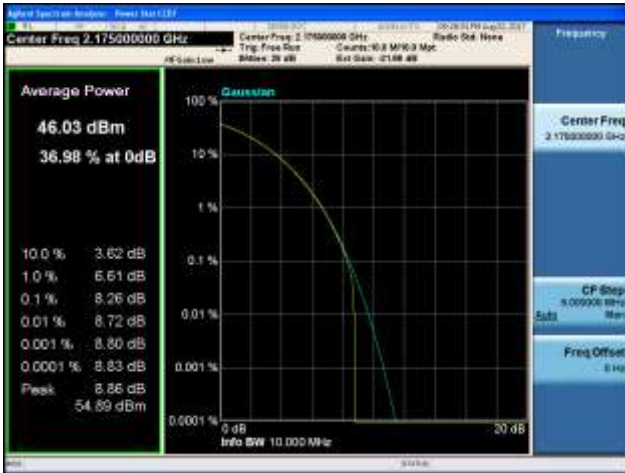


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**Band 66, BW 10MHz, Single carrier, 4TX, Top**

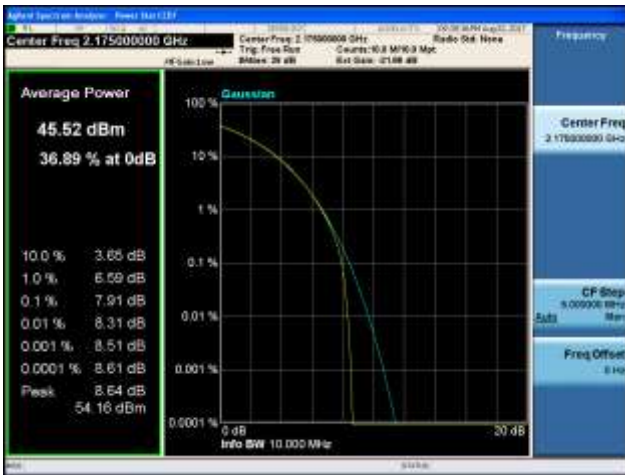
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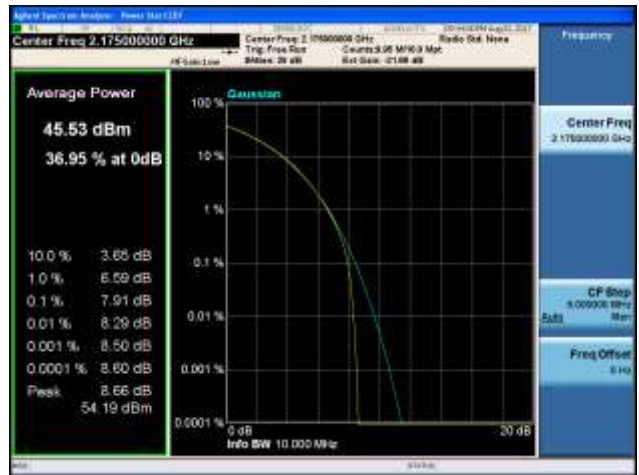
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64QAM



256QAM



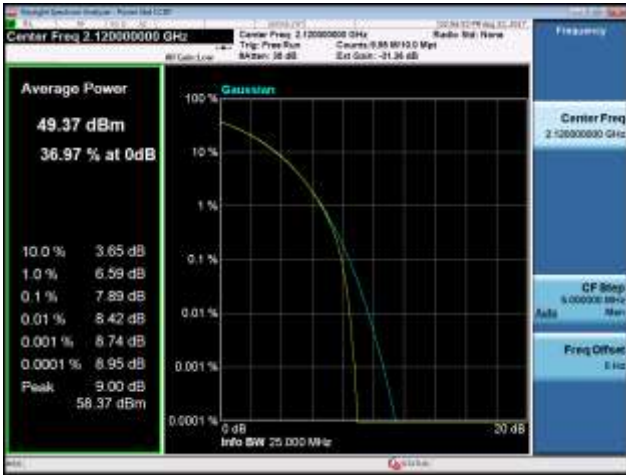


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

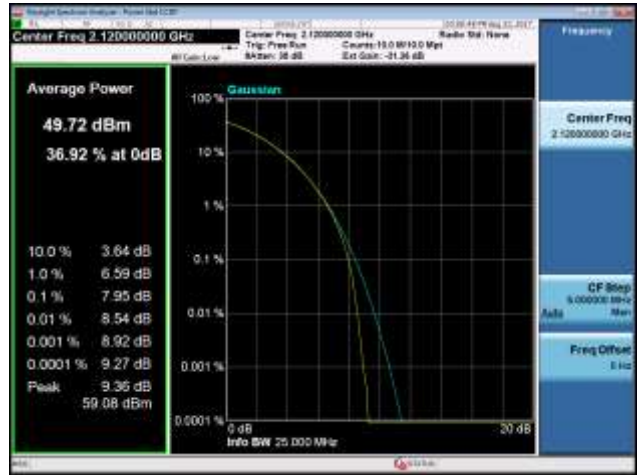
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**Band 66, BW 20MHz, Single carrier, 2TX, Bottom**

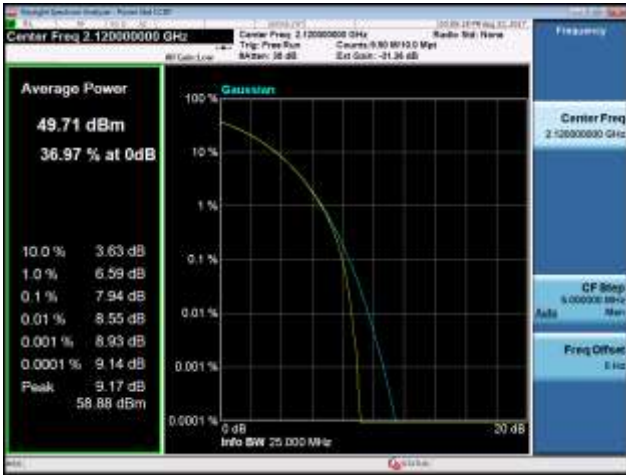
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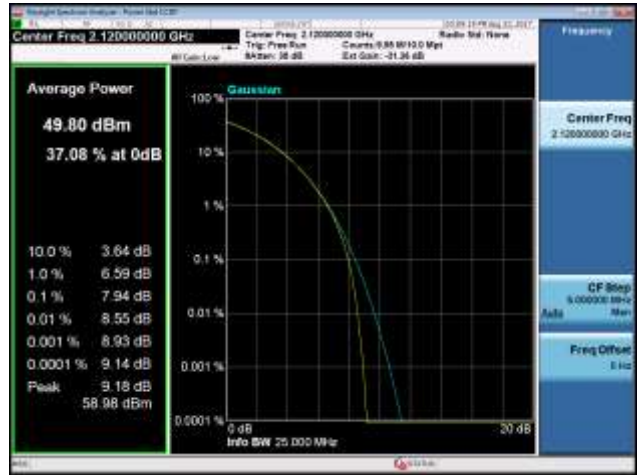
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64QAM



256QAM



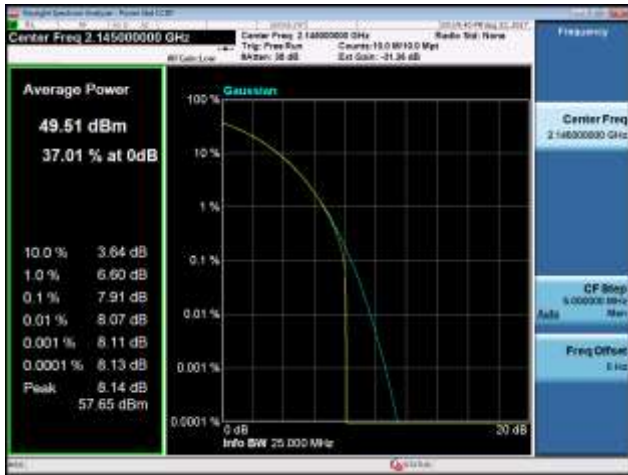


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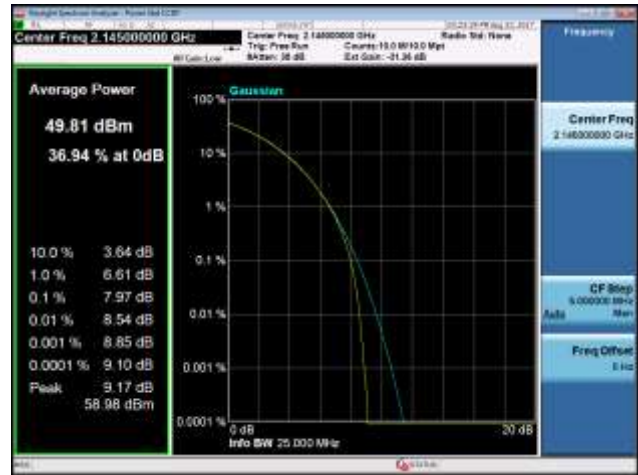
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**Band 66, BW 20MHz, Single carrier, 2TX, Middle**

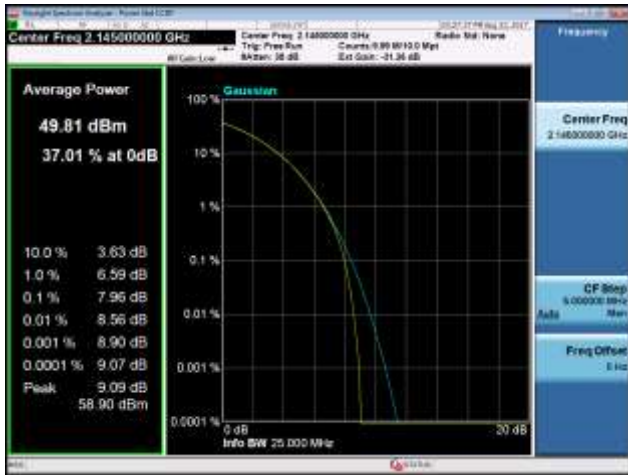
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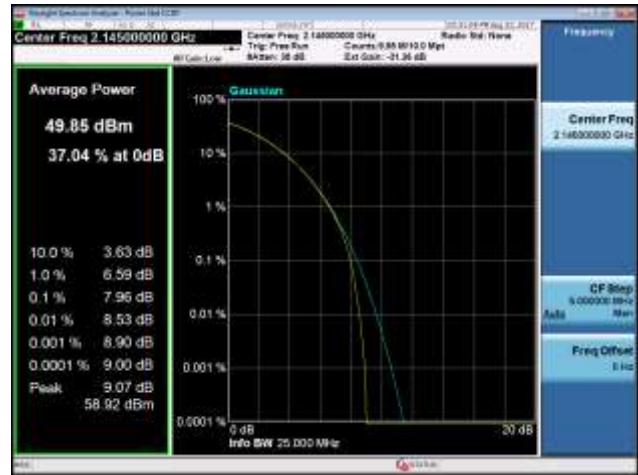
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64QAM

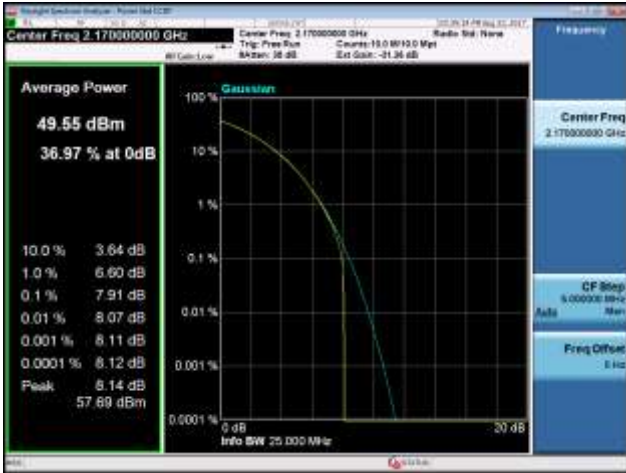


256QAM

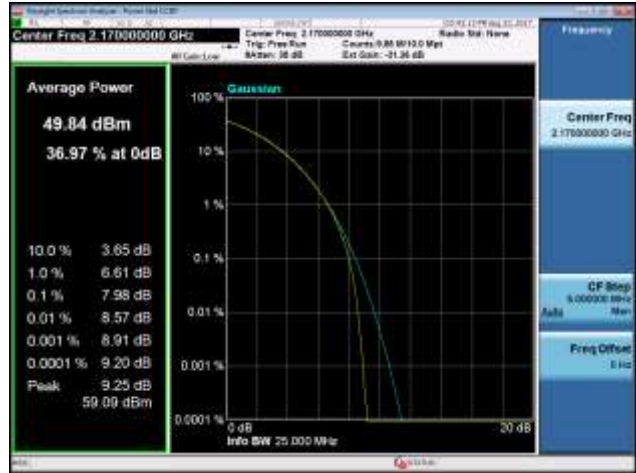


**Band 66, BW 20MHz, Single carrier, 2TX, Top**

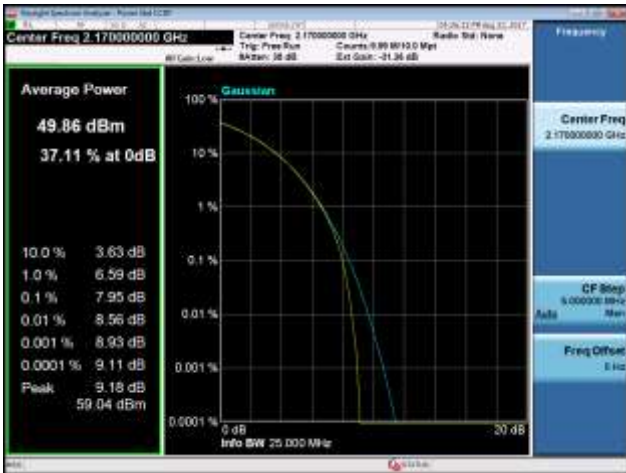
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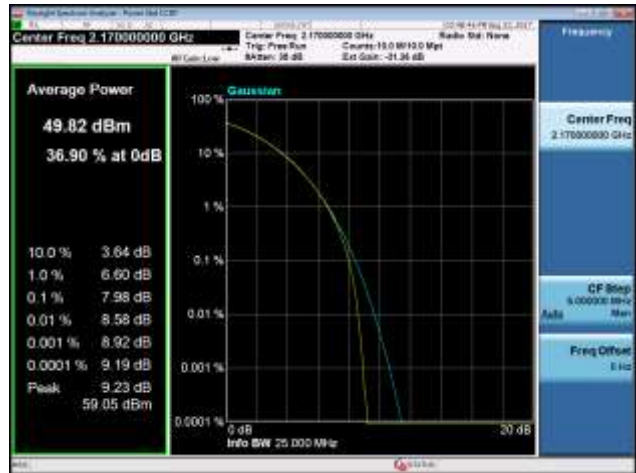
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64QAM



256QAM



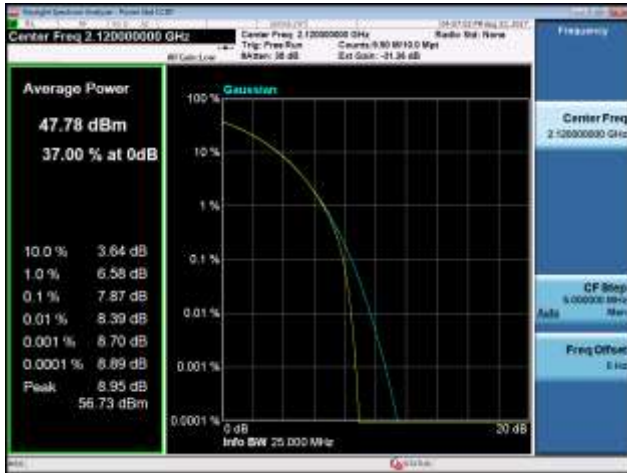


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 Tel: +82-31-339-9970  
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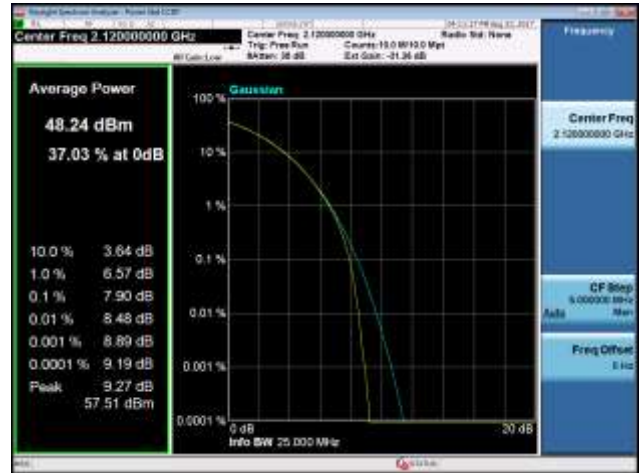
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**Band 66, BW 20MHz, Single carrier, 4TX, Bottom**

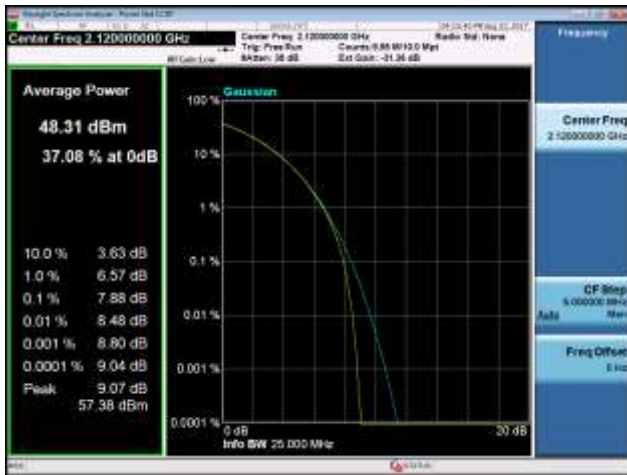
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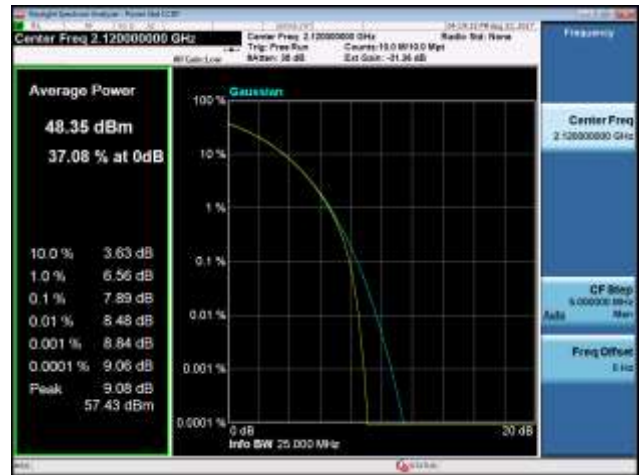
16QAM



64QAM



256QAM



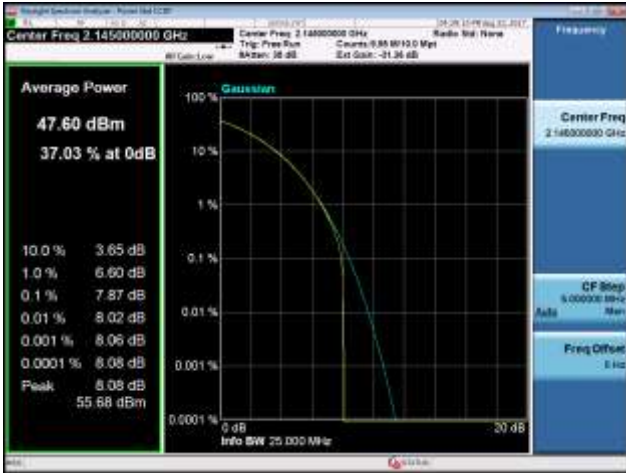


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 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

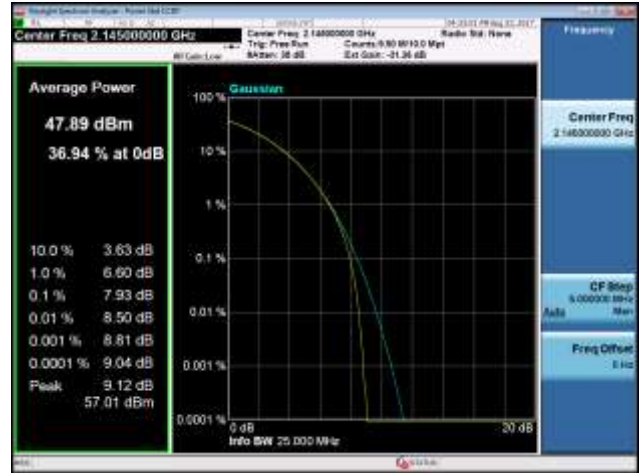
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**Band 66, BW 20MHz, Single carrier, 4TX, Middle**

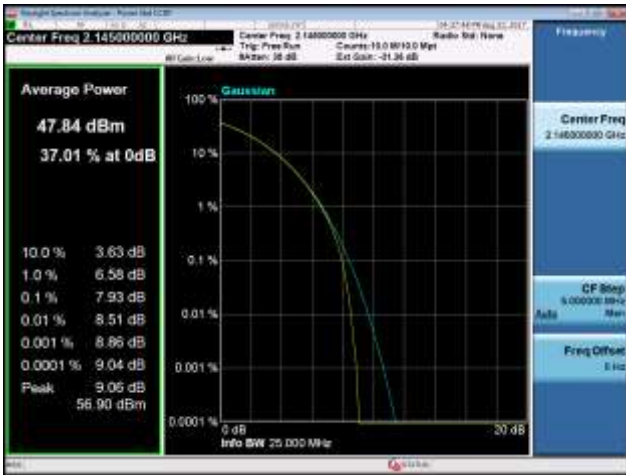
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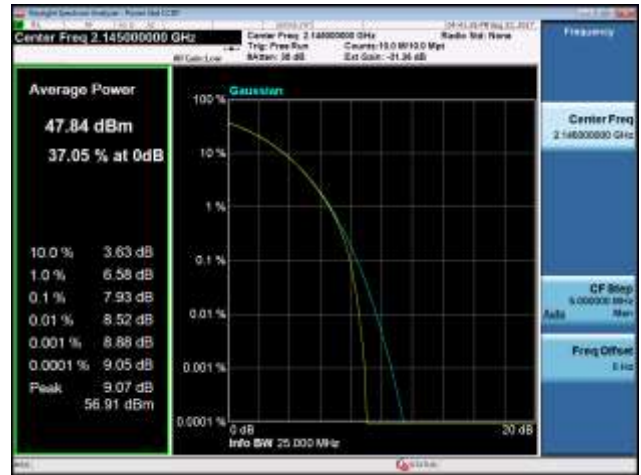
16QAM



64QAM

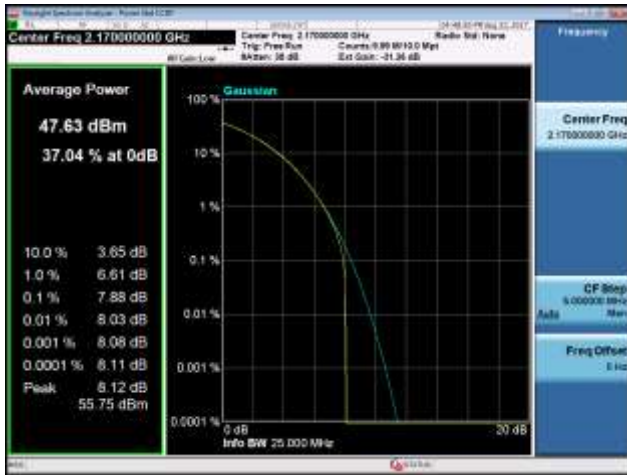


256QAM

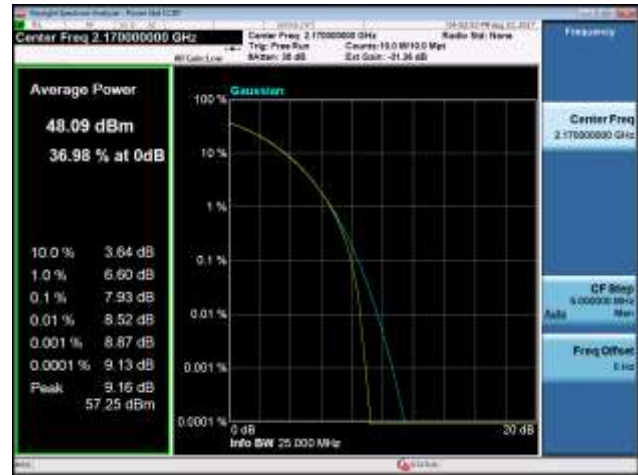


**Band 66, BW 20MHz, Single carrier, 4TX Top**

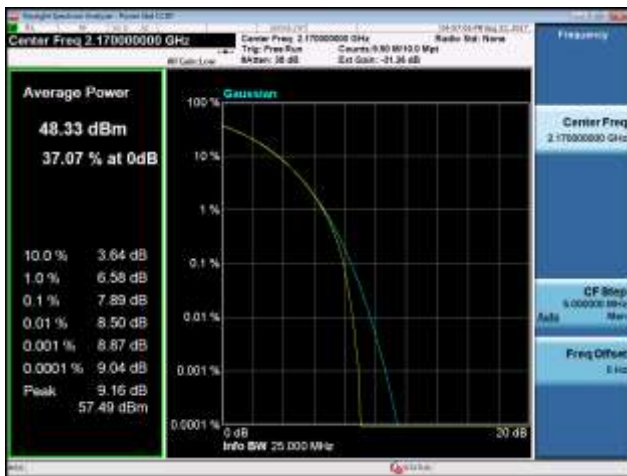
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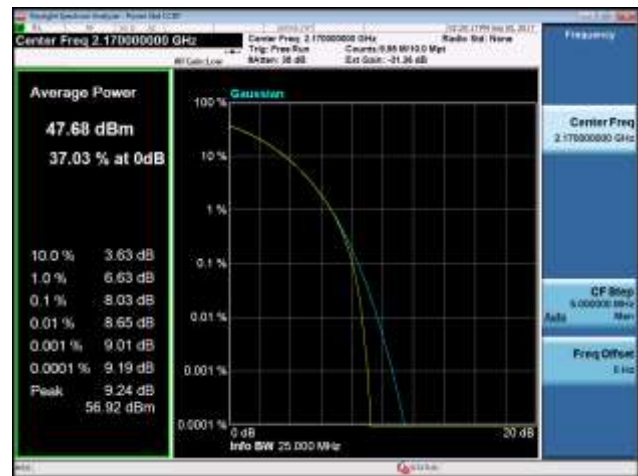
16QAM



64QAM



256QAM



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## 5. Occupied Bandwidth

### Test Requirements :

#### § 2.1049 Measurements required : Occupied bandwidth

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049(a) through (i) as applicable.

### Test Procedures :

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. The EUT was connected to a spectrum analyzer enabled with an occupied bandwidth in accordance with FCC Part 2.1049. The occupied bandwidth was measured from the fundamental emission at the bottom, middle and top channels. The occupied bandwidth was measured using the built in occupied bandwidth function of the spectrum analyzer. It was set to measure the bandwidth where 99% of the signal power was contained. The analyzer automatically configures the measurement bandwidths to make an accurate measurement based on the channel bandwidth and channel spacing of the EUT.



**CTK Co., Ltd.**  
 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
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**Test Results :**

**Test Data : Band 66, BW 10MHz, Single 1 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz	Single	Bottom	1	2TX	QPSK	8.91
					16QAM	8.91
					64QAM	8.93
					256QAM	8.93
		Middle	1	2TX	QPSK	8.92
					16QAM	8.92
					64QAM	8.94
					256QAM	8.94
		Top	1	2TX	QPSK	8.91
					16QAM	8.91
					64QAM	8.94
					256QAM	8.94

**Test Data : Band 66, BW 10MHz, Single 1 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz	Single	Bottom	3	4TX	QPSK	8.91
					16QAM	8.90
					64QAM	8.93
					256QAM	8.93
		Middle	3	4TX	QPSK	8.92
					16QAM	8.91
					64QAM	8.93
					256QAM	8.94
		Top	3	4TX	QPSK	8.92
					16QAM	8.93
					64QAM	8.94
					256QAM	8.93



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**Test Data : Band 66, BW 20MHz, Single 1 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 20MHz	Single	Bottom	1	2TX	QPSK	17.80
					16QAM	17.78
					64QAM	17.83
					256QAM	17.83
		Middle	1	2TX	QPSK	17.79
					16QAM	17.81
					64QAM	17.84
					256QAM	17.84
		Top	1	2TX	QPSK	17.80
					16QAM	17.78
					64QAM	17.84
					256QAM	17.79

**Test Data : Band 66, BW 20MHz, Single 1 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 20MHz	Single	Bottom	3	4TX	QPSK	17.79
					16QAM	17.79
					64QAM	17.83
					256QAM	17.83
		Middle	3	4TX	QPSK	17.81
					16QAM	17.79
					64QAM	17.84
					256QAM	17.84
		Top	3	4TX	QPSK	17.79
					16QAM	17.79
					64QAM	17.84
					256QAM	17.84



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**Test Data : Band 66, BW 5MHz + BW 10MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 10MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	14.06
					16QAM	14.08
		64QAM			14.12	
		256QAM			14.12	
	Top	1	2TX	QPSK	14.09	
				16QAM	14.10	
			64QAM	14.13		
			256QAM	14.13		

**Test Data : Band 66, BW 5MHz + BW 10MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 10MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	14.08
					16QAM	14.07
		64QAM			14.12	
		256QAM			14.12	
	Top	3	4TX	QPSK	14.10	
				16QAM	14.09	
				64QAM	14.13	
				256QAM	14.14	

**Test Data : Band 66, BW 5MHz + BW 20MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)	
Band 66 BW 5MHz + BW 20MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	23.40	
					16QAM	23.41	
		64QAM			23.52		
		256QAM			23.51		
	Top	1			2TX	QPSK	23.45
						16QAM	23.45
			64QAM	23.54			
			256QAM	23.54			

**Test Data : Band 66, BW 5MHz + BW 20MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)	
Band 66 BW 5MHz + BW 20MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	23.42	
					16QAM	23.41	
		64QAM			23.52		
		256QAM			23.52		
	Top	3			4TX	QPSK	23.46
						16QAM	23.45
			64QAM	23.54			
			256QAM	23.54			



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**Test Data : Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 10MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	18.79
					16QAM	18.79
					64QAM	18.82
					256QAM	18.82
	Top	1	2TX	QPSK	18.82	
				16QAM	18.81	
				64QAM	18.84	
				256QAM	18.84	

**Test Data : Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 10MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	18.80
					16QAM	18.80
					64QAM	18.83
					256QAM	18.82
	Top	3	4TX	QPSK	18.81	
				16QAM	18.81	
				64QAM	18.84	
				256QAM	18.84	

**Test Data : Band 66, BW 10MHz + BW 15MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 15MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	23.52
					16QAM	23.49
					64QAM	23.52
					256QAM	23.52
	Top	1	2TX	QPSK	23.55	
				16QAM	23.51	
				64QAM	23.54	
				256QAM	23.54	

**Test Data : Band 66, BW 10MHz + BW 15MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 15MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	23.50
					16QAM	23.48
					64QAM	23.52
					256QAM	23.52
	Top	3	4TX	QPSK	23.52	
				16QAM	23.51	
				64QAM	23.54	
				256QAM	23.54	



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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
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 Fax: +82-31-624-9501

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**Test Data : Band 66, BW 10MHz + BW 20MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 20MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	28.14
					16QAM	28.16
					64QAM	28.23
					256QAM	28.23
	Top	1	2TX	QPSK	28.16	
				16QAM	28.19	
				64QAM	28.25	
				256QAM	28.25	

**Test Data : Band 66, BW 10MHz + BW 20MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 20MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	28.15
					16QAM	28.14
					64QAM	28.22
					256QAM	28.23
	Top	3	4TX	QPSK	28.13	
				16QAM	28.17	
				64QAM	28.25	
				256QAM	28.24	



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 Yongin-si, Gyeonggi-do, Korea  
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**Test Data : Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 15MHz + BW 10MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	28.87
					16QAM	28.88
					64QAM	28.96
					256QAM	28.96
		Middle	1	2TX	QPSK	28.92
					16QAM	28.92
					64QAM	28.99
					256QAM	29.00
		Top	1	2TX	QPSK	28.91
					16QAM	28.91
					64QAM	28.99
					256QAM	28.99

**Test Data : Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 15MHz + BW 10MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	28.87
					16QAM	28.89
					64QAM	28.97
					256QAM	28.97
		Middle	3	4TX	QPSK	28.96
					16QAM	28.92
					64QAM	28.99
					256QAM	28.99
		Top	3	4TX	QPSK	28.93
					16QAM	28.97
					64QAM	28.99
					256QAM	28.99



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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

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**Test Data : Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 10MHz + BW 10MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	28.68
					16QAM	28.69
					64QAM	28.73
					256QAM	28.73
		Middle	1	2TX	QPSK	28.70
					16QAM	28.70
					64QAM	28.75
					256QAM	28.75
		Top	1	2TX	QPSK	28.67
					16QAM	28.72
					64QAM	28.74
					256QAM	28.74

**Test Data : Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 10MHz + BW 10MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	28.69
					16QAM	28.68
					64QAM	28.73
					256QAM	28.72
		Middle	3	4TX	QPSK	28.72
					16QAM	28.72
					64QAM	28.75
					256QAM	28.75
		Top	3	4TX	QPSK	28.71
					16QAM	28.70
					64QAM	28.74
					256QAM	28.74



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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
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**Test Data : Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 10MHz + BW 10MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	23.95
					16QAM	23.98
					64QAM	24.02
					256QAM	24.01
		Middle	1	2TX	QPSK	24.01
					16QAM	23.97
					64QAM	24.04
					256QAM	24.04
		Top	1	2TX	QPSK	23.98
					16QAM	24.01
					64QAM	24.04
					256QAM	24.04

**Test Data : Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 10MHz + BW 10MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	23.95
					16QAM	23.96
					64QAM	24.02
					256QAM	24.01
		Middle	3	4TX	QPSK	24.01
					16QAM	24.01
					64QAM	24.04
					256QAM	24.04
		Top	3	4TX	QPSK	23.97
					16QAM	23.98
					64QAM	24.04
					256QAM	24.04



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 Yongin-si, Gyeonggi-do, Korea  
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**Test Data : Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 10MHz + BW 5MHz	Multi/ Contiguous	Bottom	1	2TX	QPSK	19.21
					16QAM	19.22
					64QAM	19.31
					256QAM	19.31
		Middle	1	2TX	QPSK	19.27
					16QAM	19.25
					64QAM	19.33
					256QAM	19.33
		Top	1	2TX	QPSK	19.26
					16QAM	19.25
					64QAM	19.34
					256QAM	19.33

**Test Data : Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5MHz + BW 10MHz + BW 5MHz	Multi/ Contiguous	Bottom	3	4TX	QPSK	19.21
					16QAM	19.22
					64QAM	19.31
					256QAM	19.31
		Middle	3	4TX	QPSK	19.26
					16QAM	19.26
					64QAM	19.34
					256QAM	19.33
		Top	3	4TX	QPSK	19.27
					16QAM	19.25
					64QAM	19.33
					256QAM	19.33



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**Test Data : Band 66, BW 10MHz + BW 5MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	8.91
					16QAM	8.91
					64QAM	8.92
					256QAM	8.93
		Top	1	2TX	QPSK	4.47
					16QAM	4.46
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 10MHz + BW 5MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	8.92
					16QAM	8.90
					64QAM	8.92
					256QAM	8.92
		Top	3	4TX	QPSK	4.47
					16QAM	4.46
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	8.91
					16QAM	8.91
					64QAM	8.93
					256QAM	8.92
		Top	1	2TX	QPSK	8.92
					16QAM	8.92
					64QAM	8.94
					256QAM	8.94

**Test Data : Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	8.92
					16QAM	8.91
					64QAM	8.92
					256QAM	8.93
		Top	3	4TX	QPSK	8.93
					16QAM	8.91
					64QAM	8.94
					256QAM	8.94



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**Test Data : Band 66, BW 15MHz + BW 10MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 15MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	13.37
					16QAM	13.37
					64QAM	13.38
					256QAM	13.38
		Top	1	2TX	QPSK	8.92
					16QAM	8.93
					64QAM	8.94
					256QAM	8.94

**Test Data : Band 66, BW 15MHz + BW 10MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 15MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	13.38
					16QAM	13.38
					64QAM	13.37
					256QAM	13.38
		Top	3	4TX	QPSK	8.91
					16QAM	8.92
					64QAM	8.94
					256QAM	8.94

**Test Data : Band 66, BW 20MHz + BW 5MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 20MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	17.78
					16QAM	17.78
					64QAM	17.83
					256QAM	17.83
		Top	1	2TX	QPSK	4.47
					16QAM	4.47
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 20MHz + BW 5MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 20MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	17.81
					16QAM	17.77
					64QAM	17.83
					256QAM	17.83
		Top	3	4TX	QPSK	4.46
					16QAM	4.46
					64QAM	4.50
					256QAM	4.50



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**Test Data : Band 66, BW 20MHz + BW 10MHz, Multi 2 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 20MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	17.79
					16QAM	17.77
					64QAM	17.83
					256QAM	17.83
	Top	1	2TX	QPSK	8.92	
				16QAM	8.92	
				64QAM	8.93	
				256QAM	8.94	

**Test Data : Band 66, BW 20MHz + BW 10MHz, Multi 2 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 20MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	17.77
					16QAM	17.81
					64QAM	17.83
					256QAM	17.83
	Top	3	4TX	QPSK	8.92	
				16QAM	8.92	
				64QAM	8.94	
				256QAM	8.94	



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**Test Data : Band 66, BW 10MHz + BW 15MHz + BW 5MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10/15MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	23.50
					16QAM	23.50
					64QAM	23.52
					256QAM	23.52
		Top	1	2TX	QPSK	4.50
					16QAM	4.50
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 10MHz + BW 15MHz + BW 5MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10/15MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	23.52
					16QAM	23.50
					64QAM	23.52
					256QAM	23.52
		Top	3	4TX	QPSK	4.46
					16QAM	4.47
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10/10MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	18.80
					16QAM	18.80
					64QAM	18.82
					256QAM	18.83
		Top	1	2TX	QPSK	8.92
					16QAM	8.92
					64QAM	8.93
					256QAM	8.93

**Test Data : Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10/10MHz + BW 10MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	18.81
					16QAM	18.79
					64QAM	18.83
					256QAM	18.83
		Top	3	4TX	QPSK	8.91
					16QAM	8.92
					64QAM	8.94
					256QAM	8.93



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**Test Data : Band 66, BW 10MHz + BW 10MHz + BW 5MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10/10MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	18.80
					16QAM	18.79
					64QAM	18.82
					256QAM	18.82
		Top	1	2TX	QPSK	4.46
					16QAM	4.47
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 10MHz + BW 10MHz + BW 5MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 10/10MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	18.78
					16QAM	18.78
					64QAM	18.82
					256QAM	18.82
		Top	3	4TX	QPSK	4.47
					16QAM	4.46
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier, 2TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5/10MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	1	2TX	QPSK	14.07
					16QAM	14.08
					64QAM	14.12
					256QAM	14.12
		Top	1	2TX	QPSK	4.46
					16QAM	4.47
					64QAM	4.50
					256QAM	4.50

**Test Data : Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier, 4TX**

Type	Carrier	Channel	Test Ant. port	Output port	Modulation	Occupied Bandwidth(MHz)
Band 66 BW 5/10MHz + BW 5MHz	Multi/ Non- Contiguous	Bottom	3	4TX	QPSK	14.08
					16QAM	14.09
					64QAM	14.12
					256QAM	14.12
		Top	3	4TX	QPSK	4.46
					16QAM	4.47
					64QAM	4.50
					256QAM	4.50



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**Test Plot at Occupied Bandwidth**

**Band 66, BW 10MHz, Single 1 carrier, 2TX, Bottom**

QPSK

16QAM



64QAM

256QAM



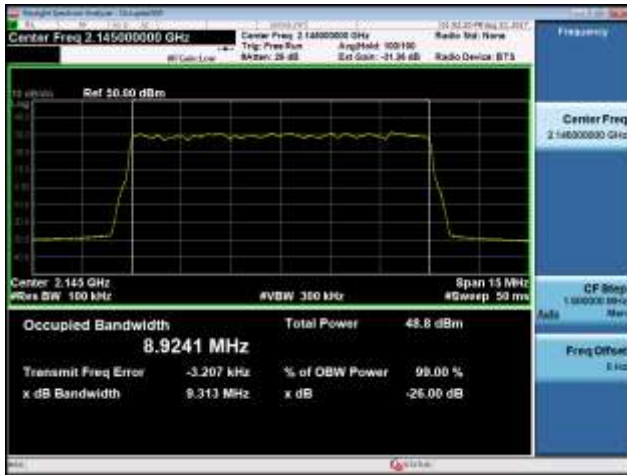


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**Band 66, BW 10MHz, Single 1 carrier, 2TX, Middle**

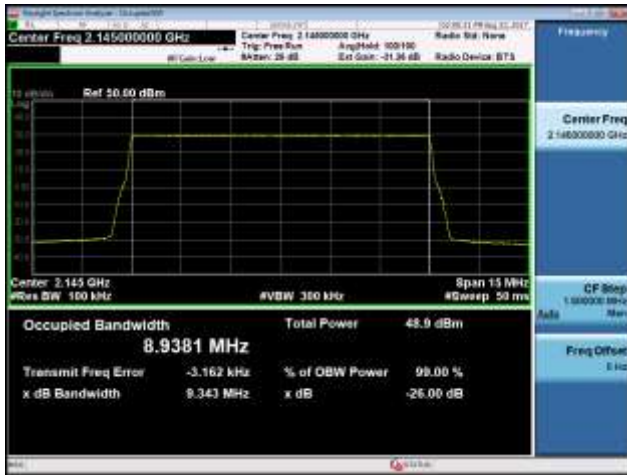
QPSK



16QAM



64QAM



256QAM





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**Band 66, BW 10MHz, Single 1 carrier, 2TX, Top**

QPSK



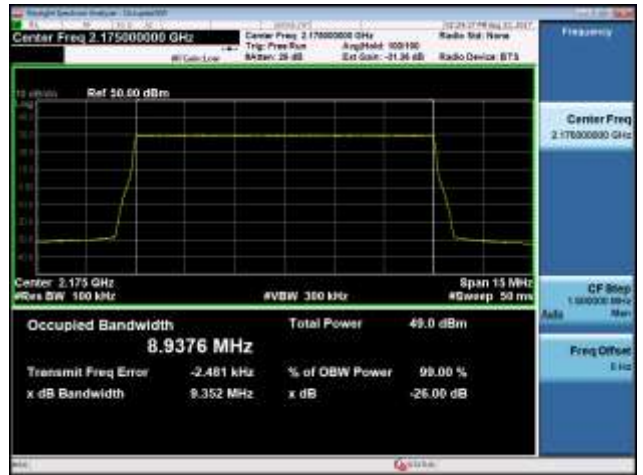
16QAM



64QAM



256QAM





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**Band 66, BW 20MHz, Single 1 carrier, 2TX, Bottom**

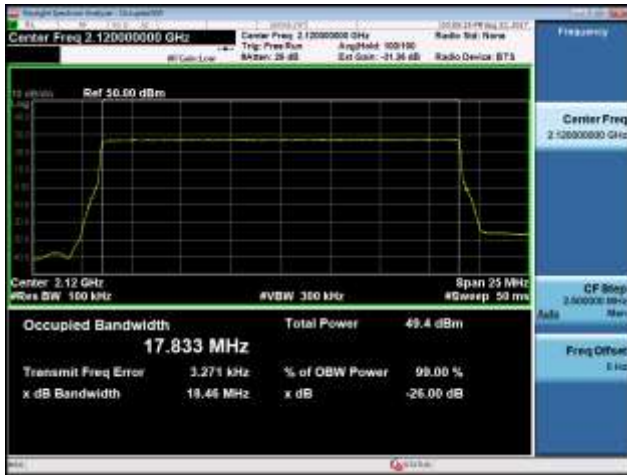
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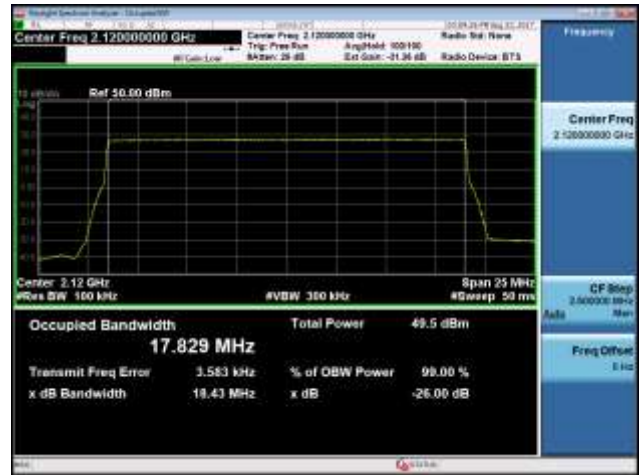
16QAM



64QAM



256QAM





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**Band 66, BW 20MHz, Single 1 carrier, 2TX, Middle**

QPSK



16QAM



64QAM



256QAM





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**Band 66, BW 20MHz, Single 1 carrier, 2TX, Top**

QPSK



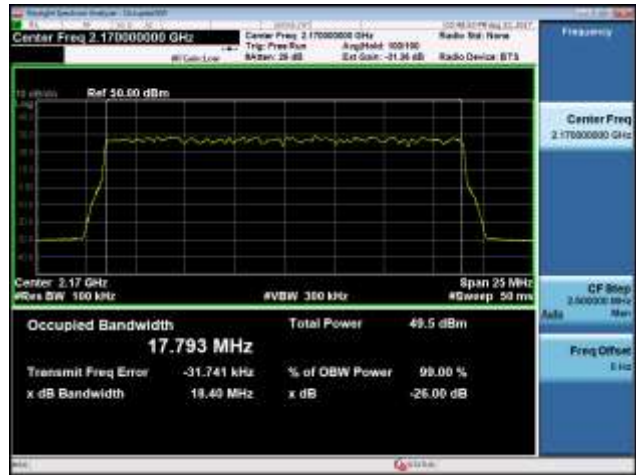
16QAM



64QAM



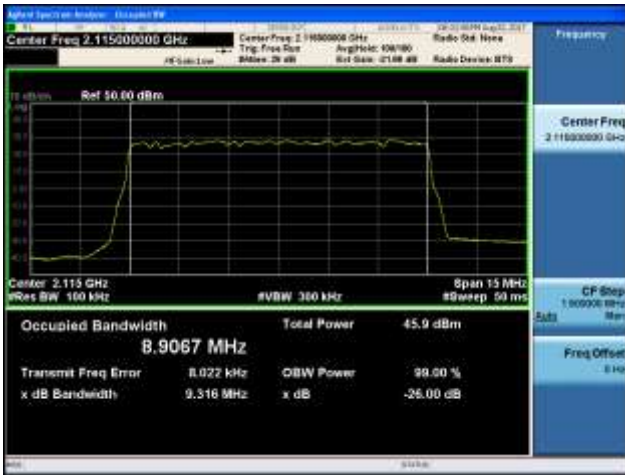
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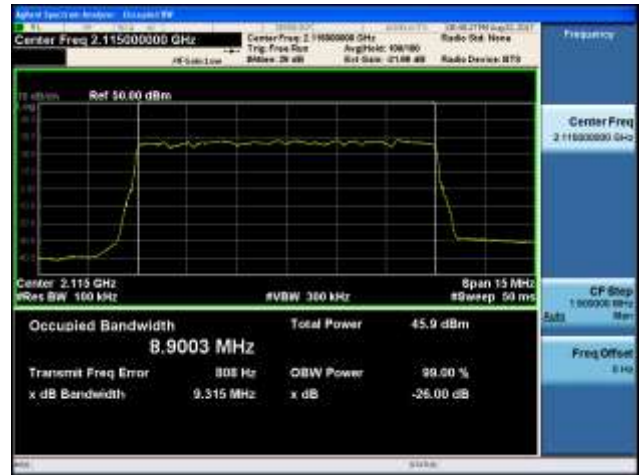


**Band 66, BW 10MHz, Single 1 carrier, 4TX, Bottom**

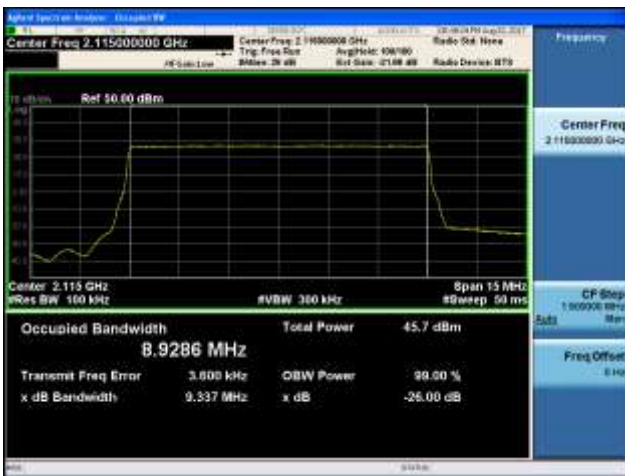
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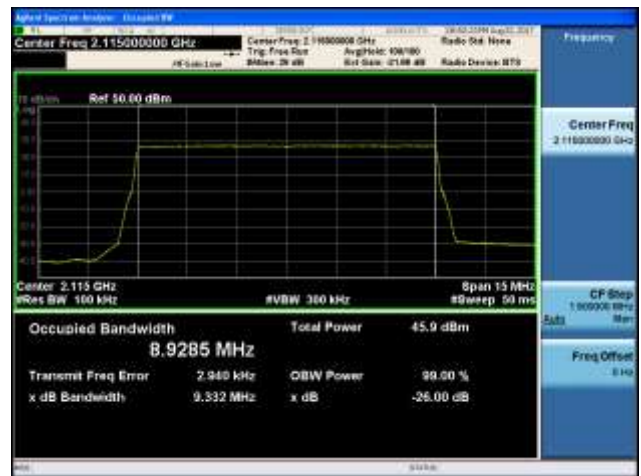
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64QAM



256QAM



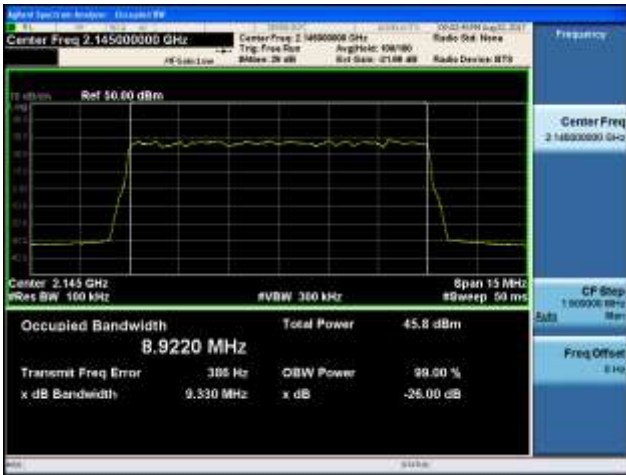


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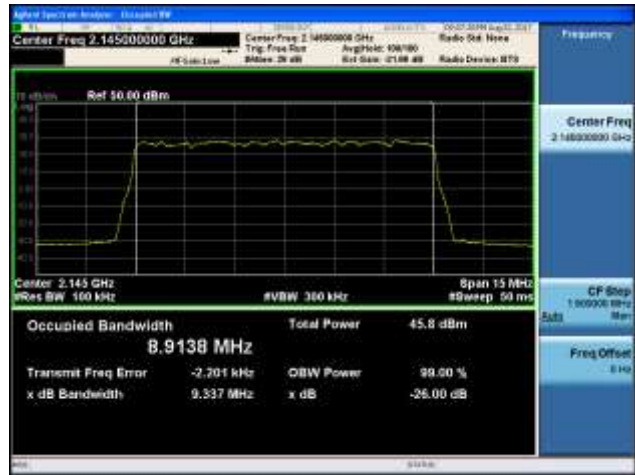
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**Band 66, BW 10MHz, Single 1 carrier, 4TX, Middle**

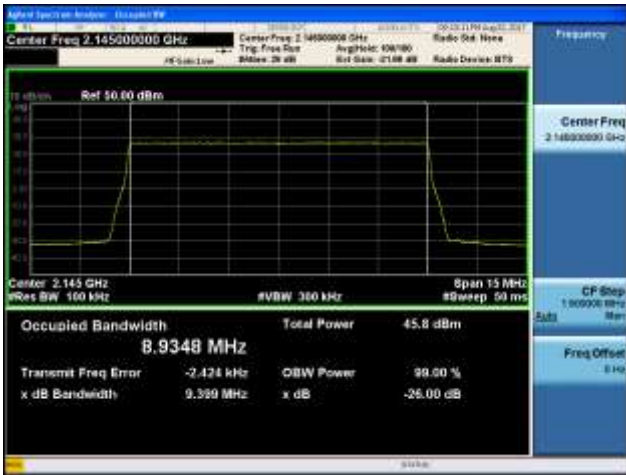
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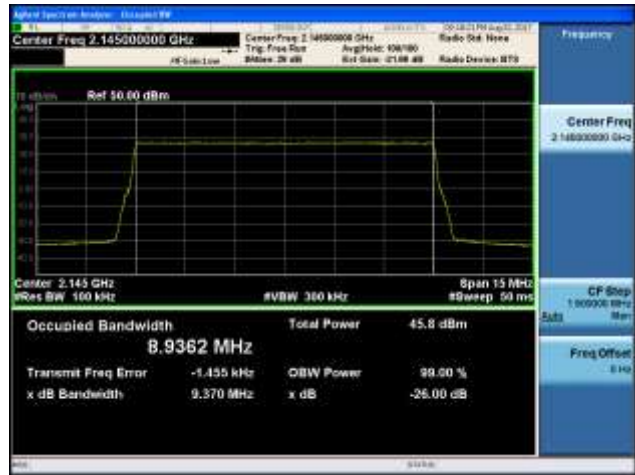
16QAM



64QAM



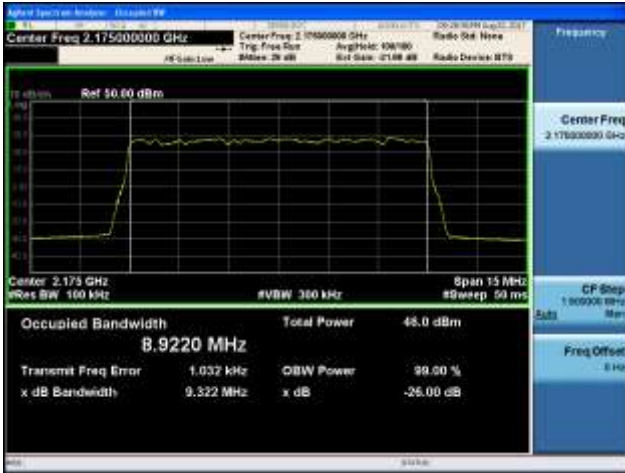
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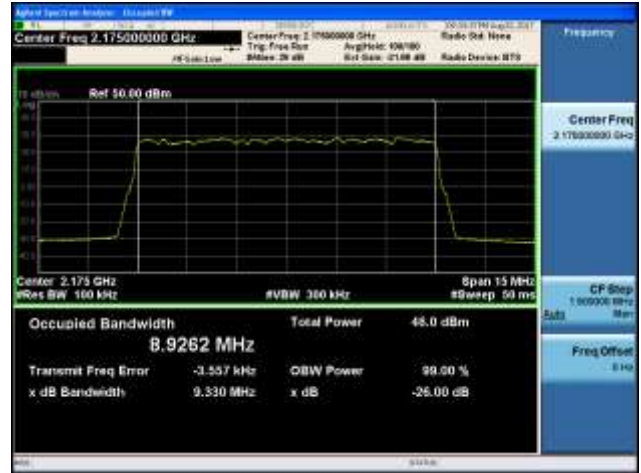


**Band 66, BW 10MHz, Single 1 carrier, 4TX Top**

QPSK



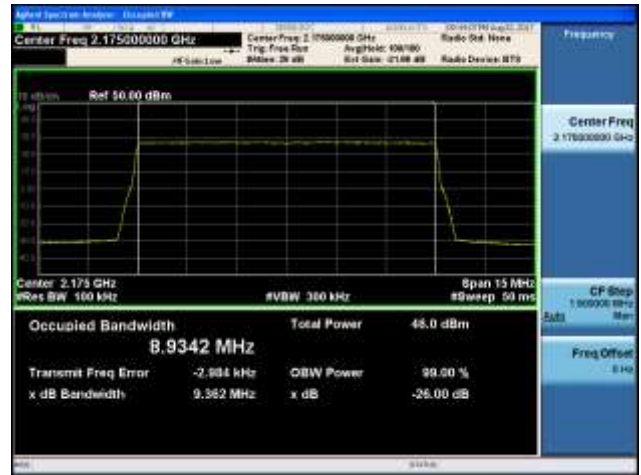
16QAM



64QAM



256QAM





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**Band 66, BW 20MHz, Single 1 carrier, 4TX, Bottom**

QPSK



16QAM



64QAM



256QAM





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 Tel: +82-31-339-9970  
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**Band 66, BW 20MHz, Single 1 carrier, 4TX, Middle**

QPSK



16QAM



64QAM



256QAM





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**Band 66, BW 20MHz, Single 1 carrier, 4TX, Top**

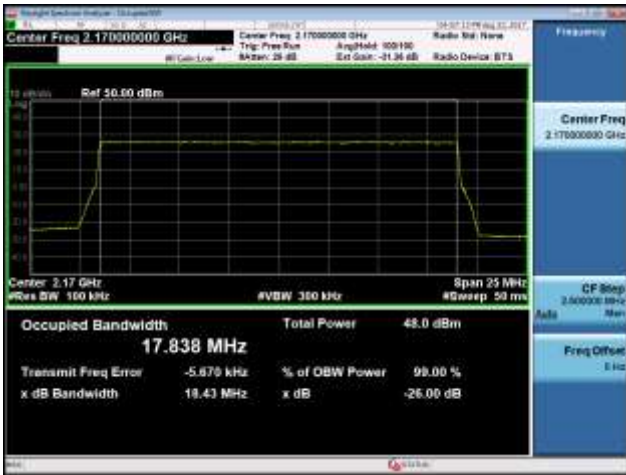
QPSK



16QAM



64QAM



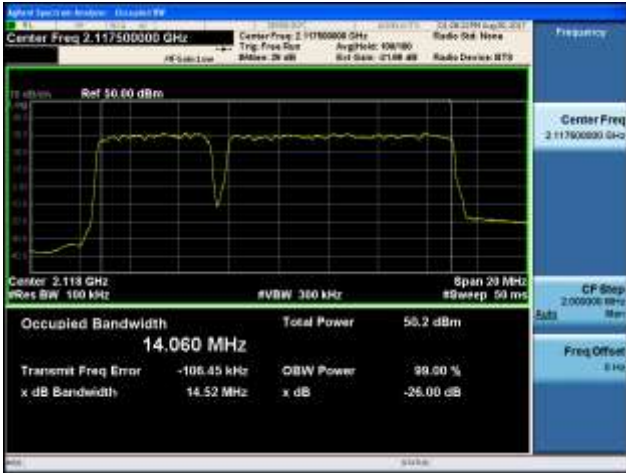
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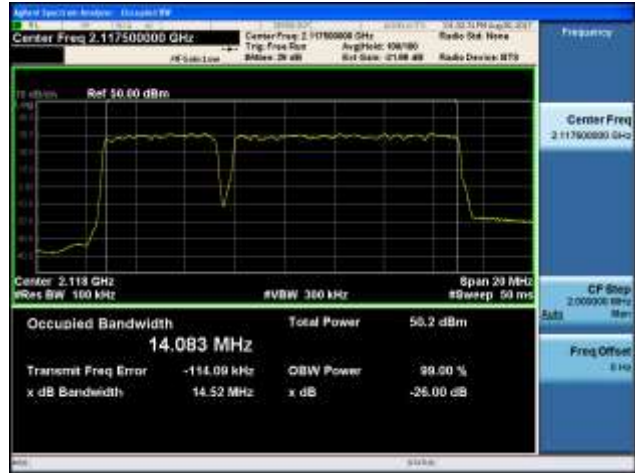


**Band 66, BW 5MHz + BW 10MHz, Multi 2 carrier(Contiguous), 2TX, Bottom**

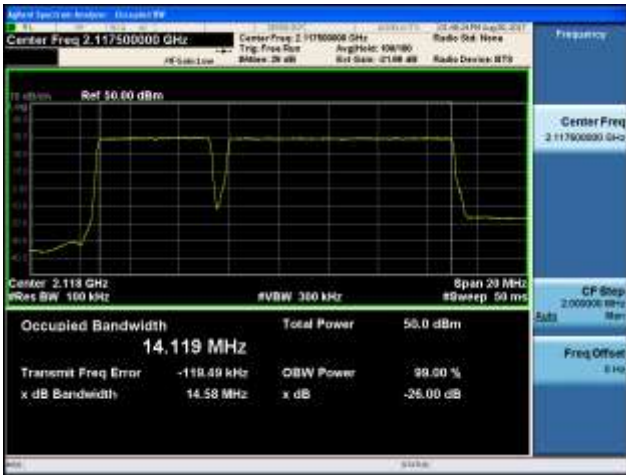
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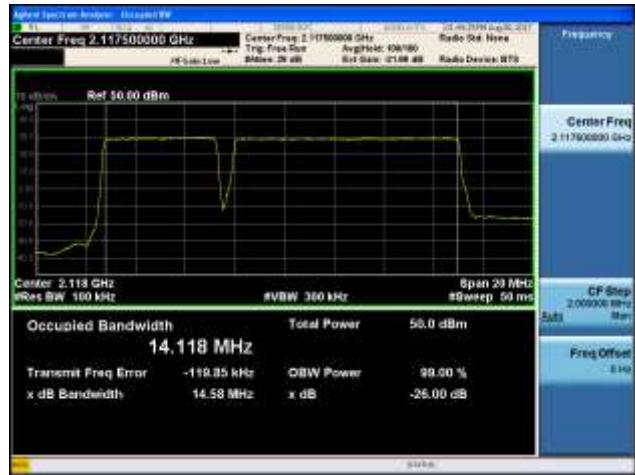
16QAM



64QAM



256QAM



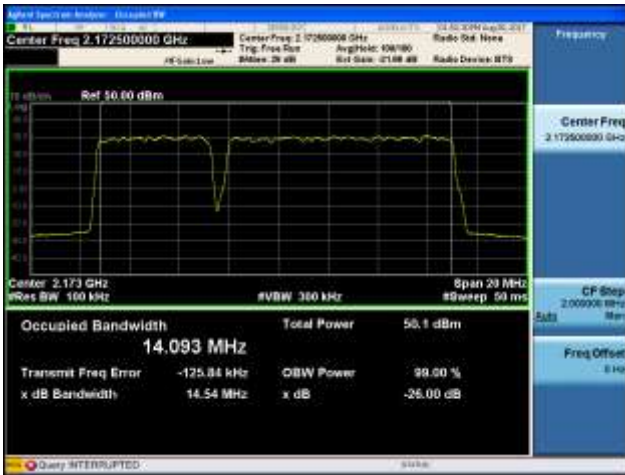


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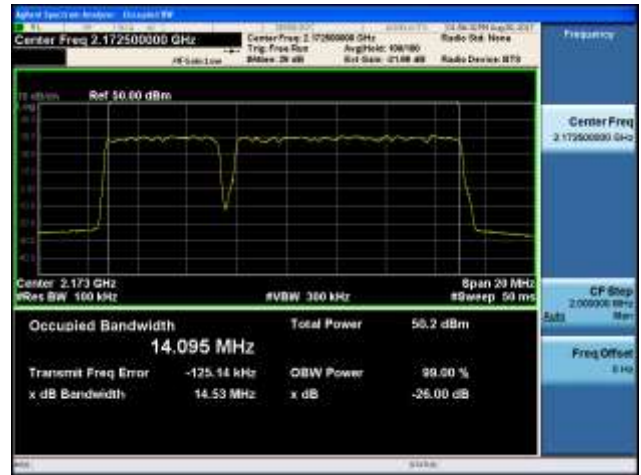
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**Band 66, BW 5MHz + BW 10MHz, Multi 2 carrier(Contiguous), 2TX, Top**

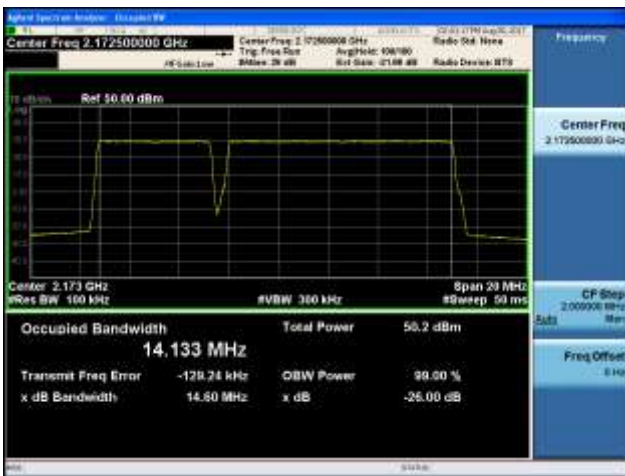
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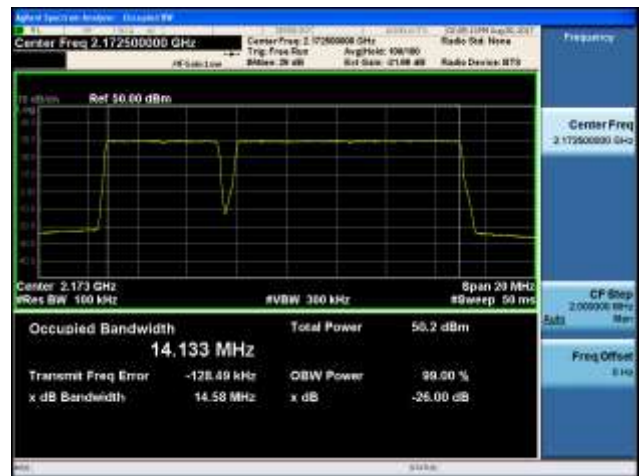
16QAM



64QAM



256QAM



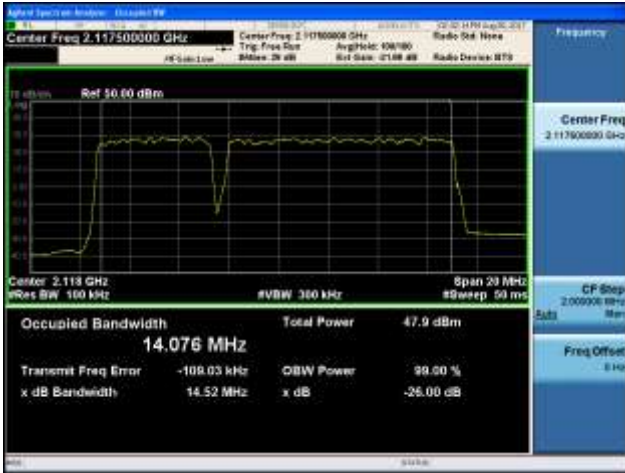


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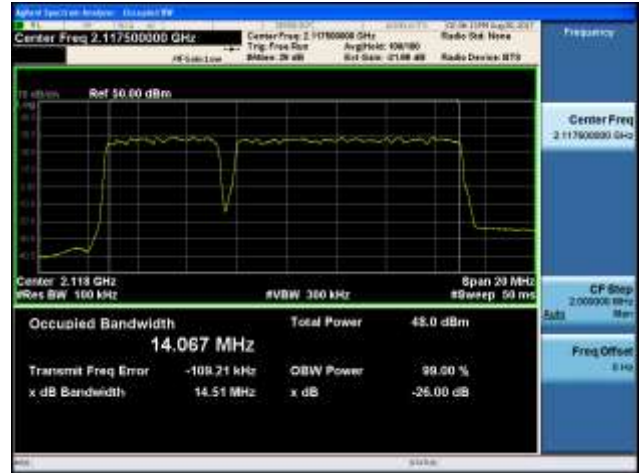
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**Band 66, BW 5MHz + BW 10MHz, Multi 2 carrier(Contiguous), 4TX, Bottom**

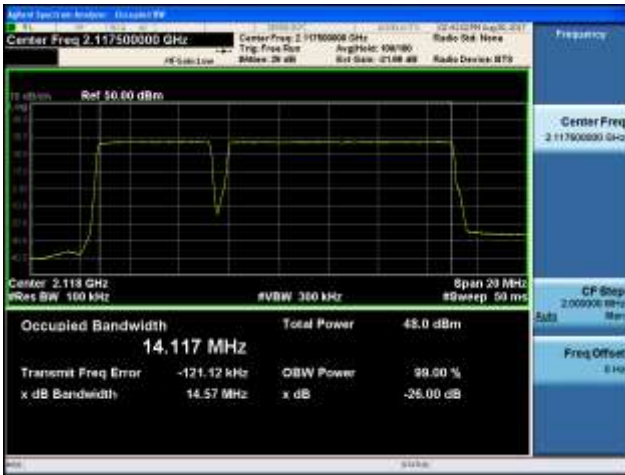
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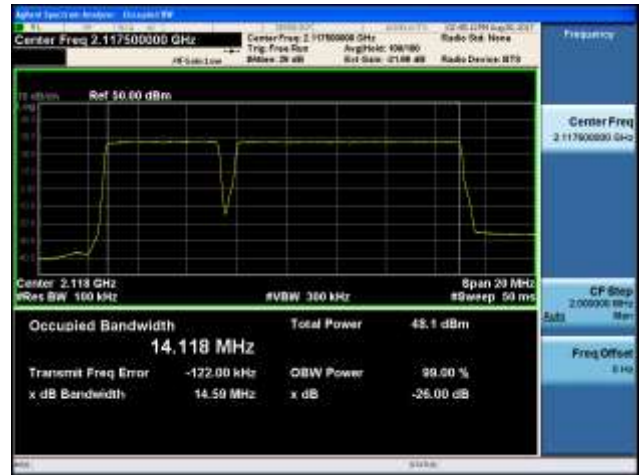
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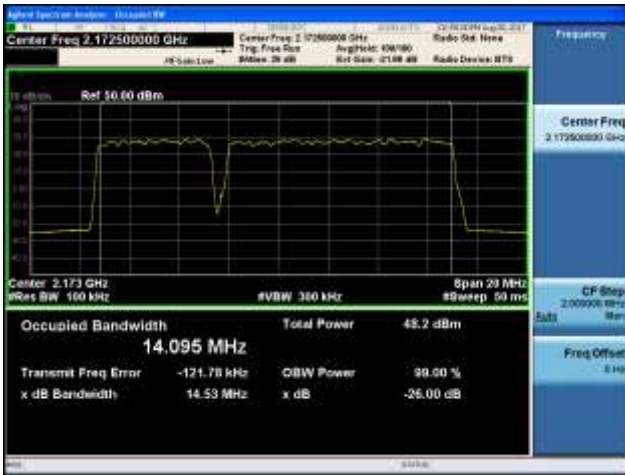


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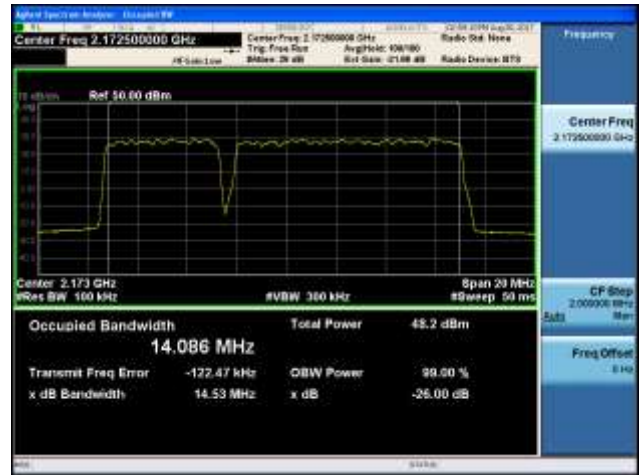
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**Band 66, BW 5MHz + BW 10MHz, Multi 2 carrier(Contiguous), 4TX, Top**

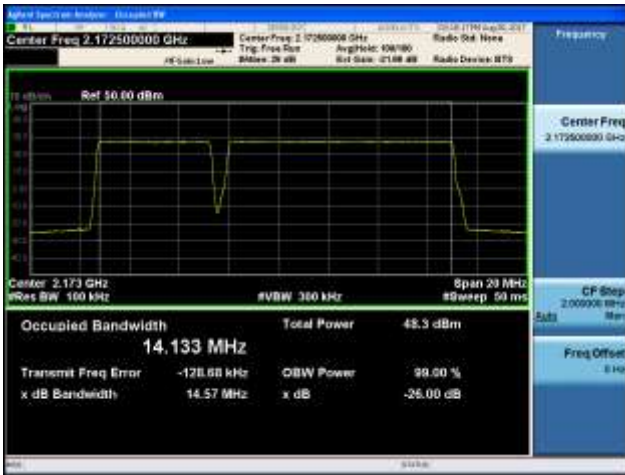
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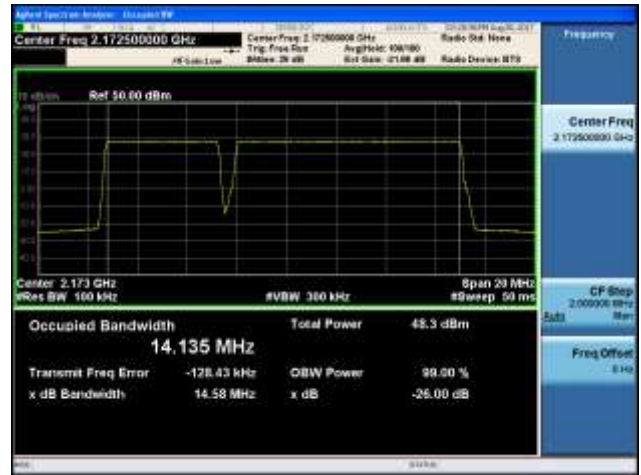
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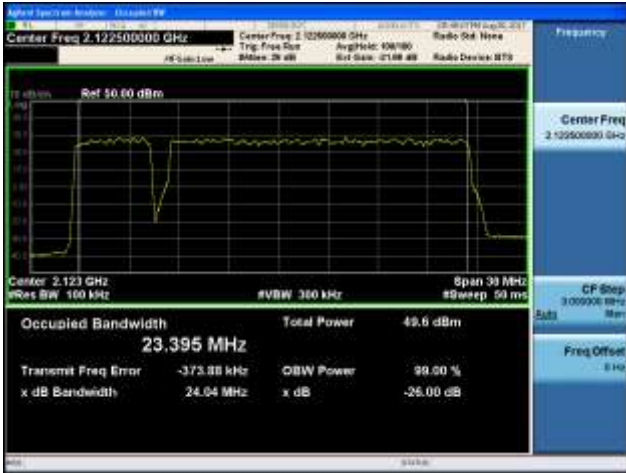


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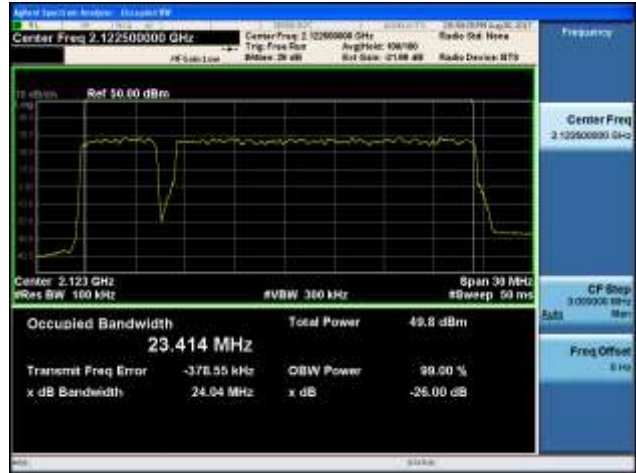
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**Band 66, BW 5MHz + BW 20MHz, Multi 2 carrier(Contiguous), 2TX, Bottom**

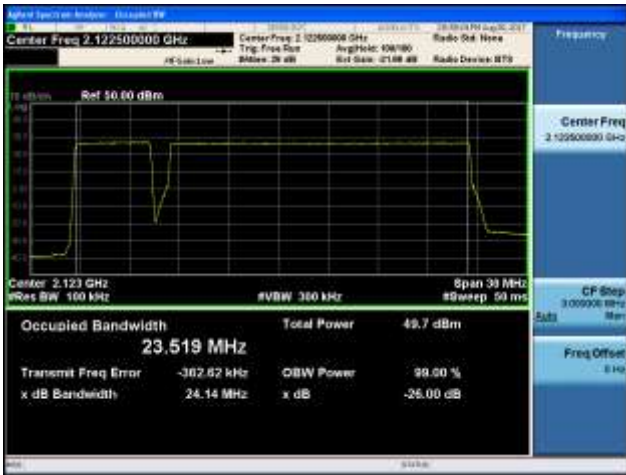
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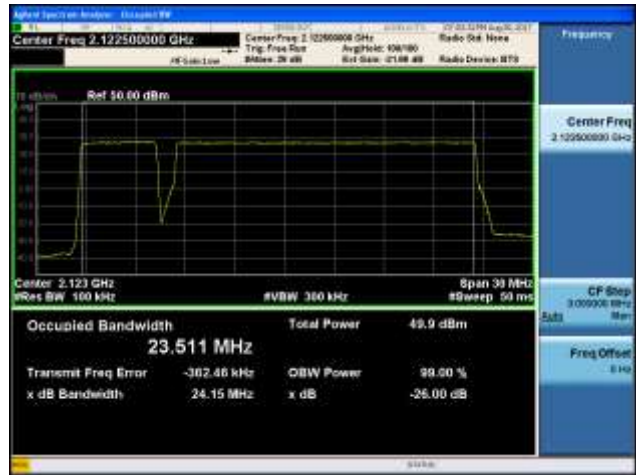
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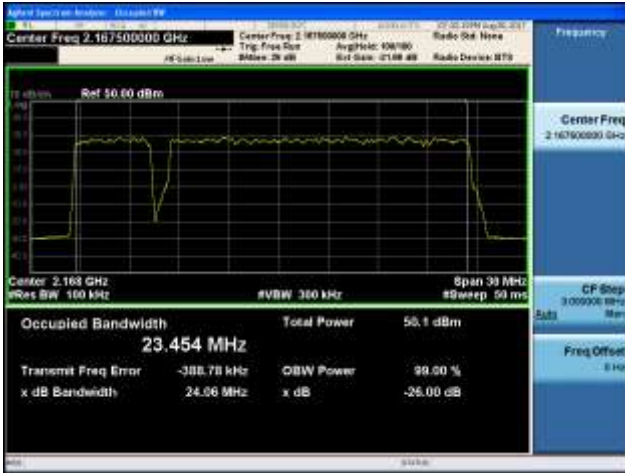


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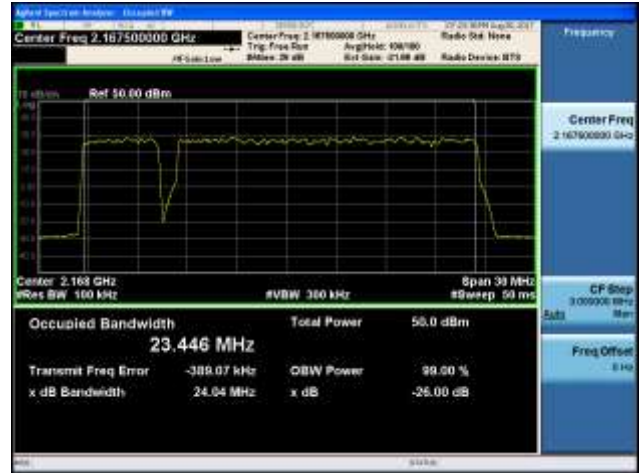
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**Band 66, BW 5MHz + BW 20MHz, Multi 2 carrier(Contiguous), 2TX, Top**

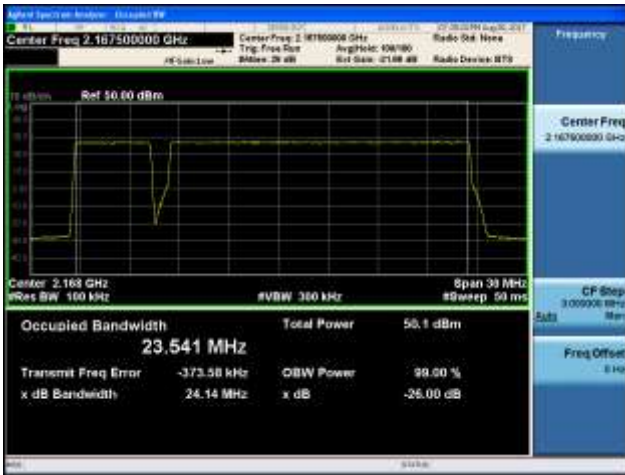
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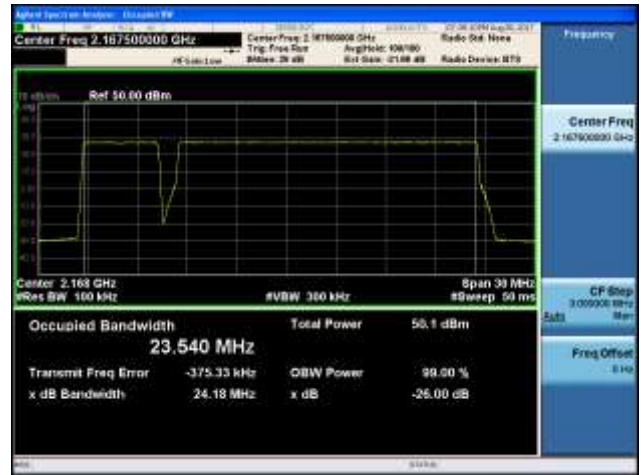
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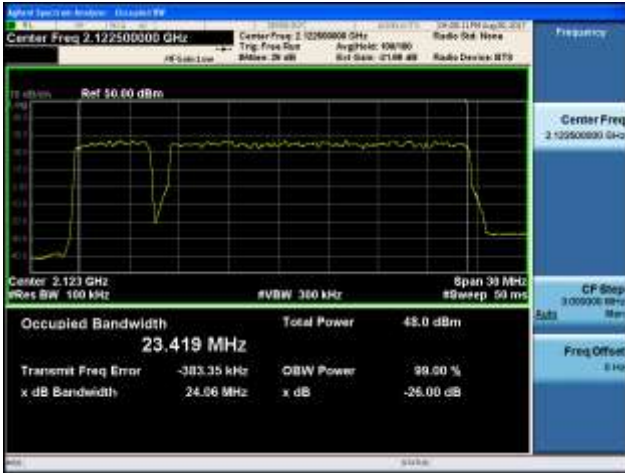


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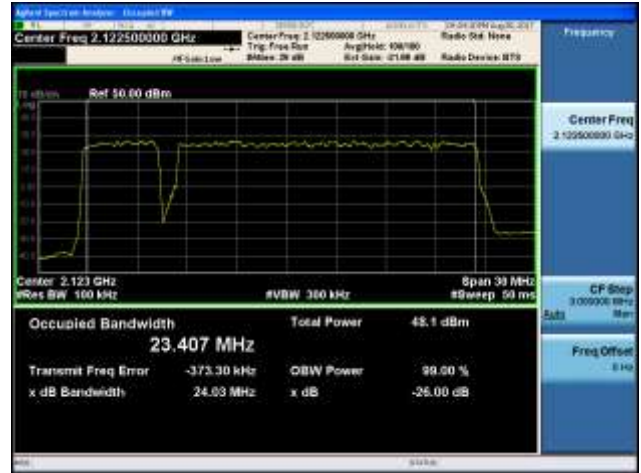
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**Band 66, BW 5MHz + BW 20MHz, Multi 2 carrier(Contiguous), 4TX, Bottom**

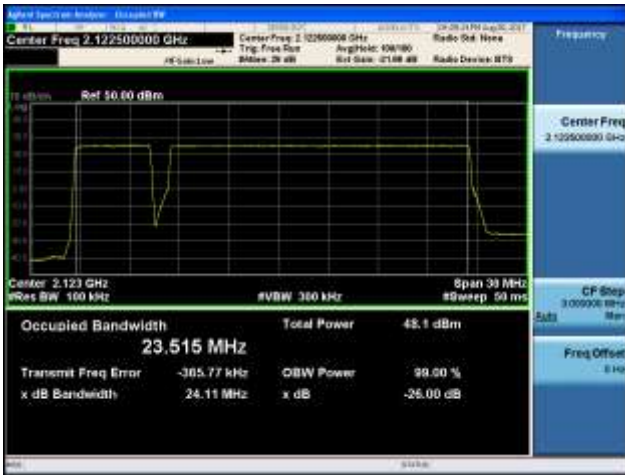
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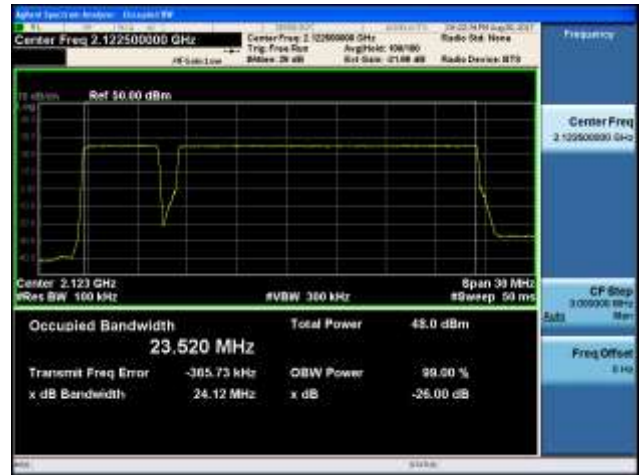
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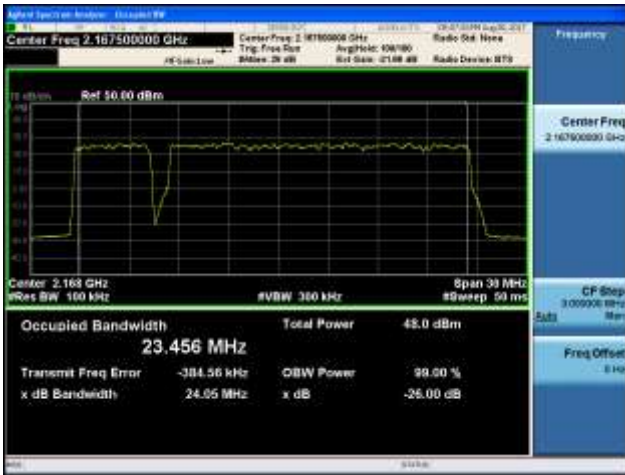


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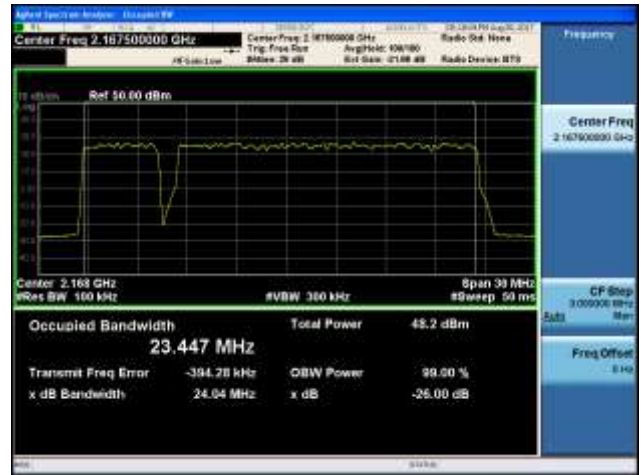
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**Band 66, BW 5MHz + BW 20MHz, Multi 2 carrier(Contiguous), 4TX, Top**

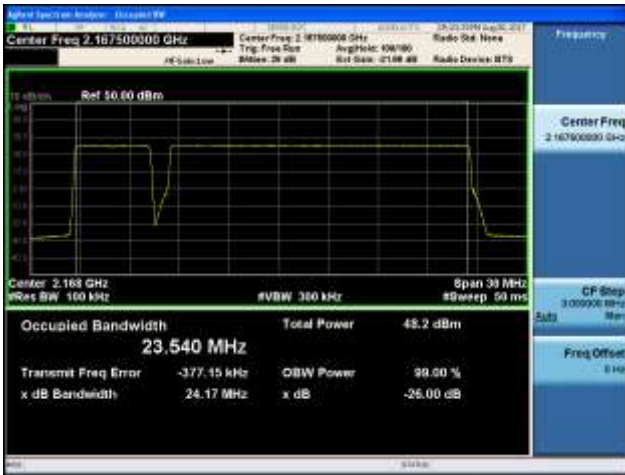
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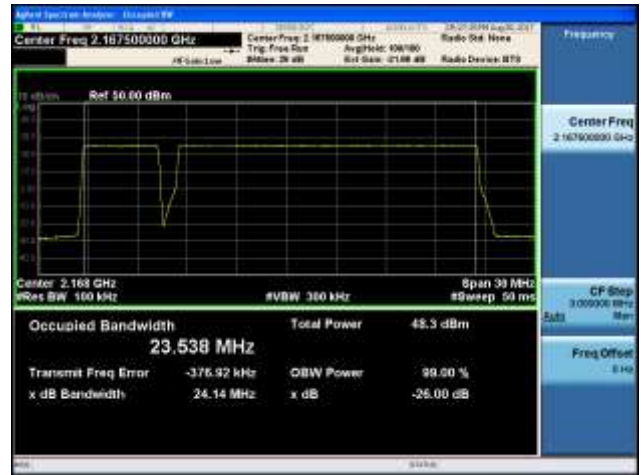
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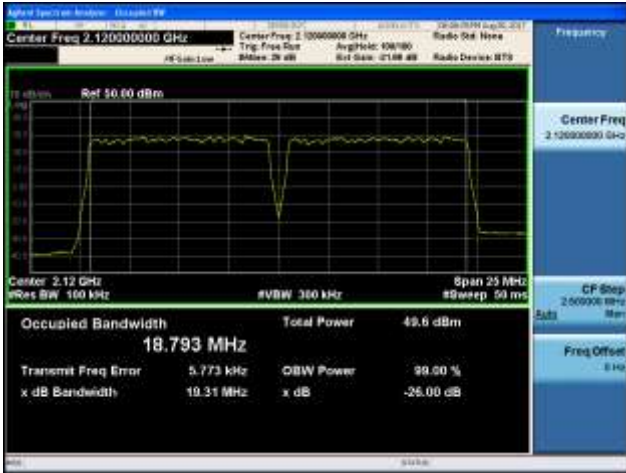
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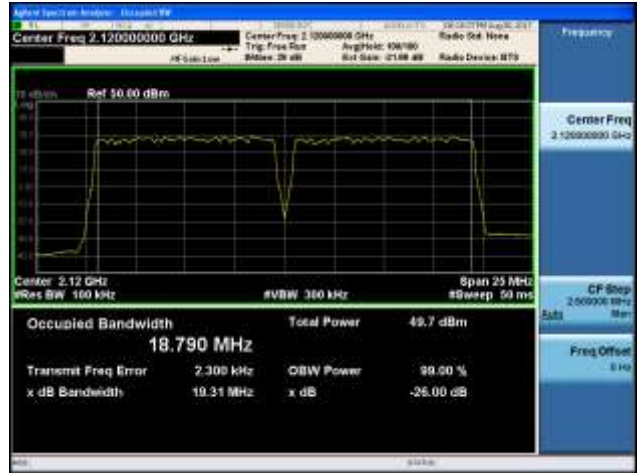


**Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier(Contiguous), 2TX, Bottom**

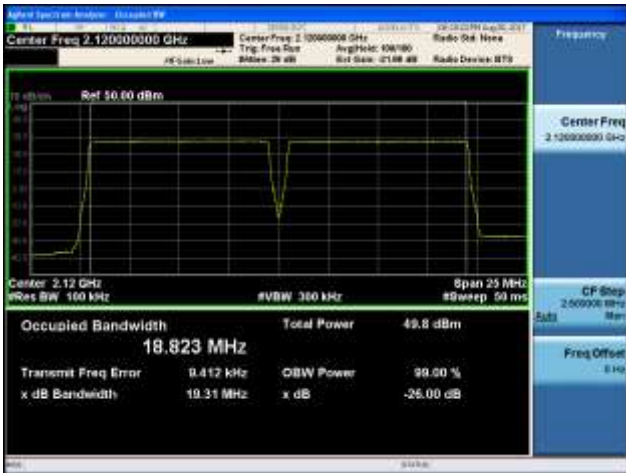
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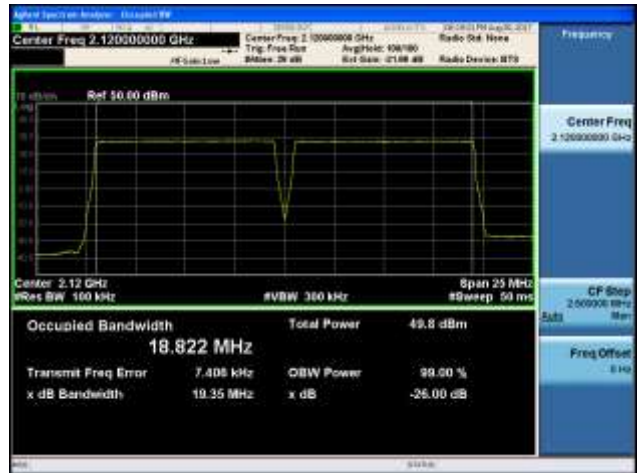
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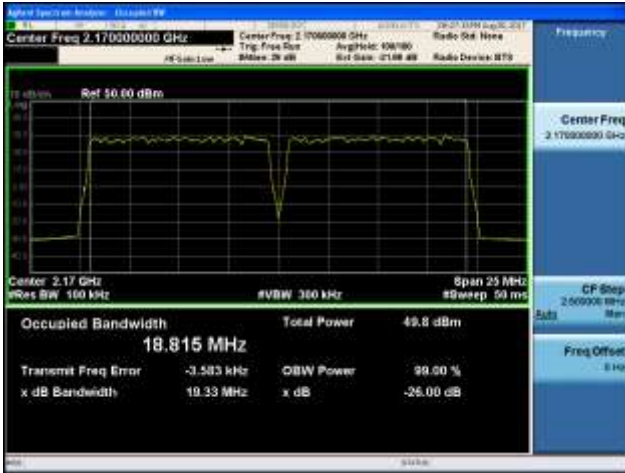
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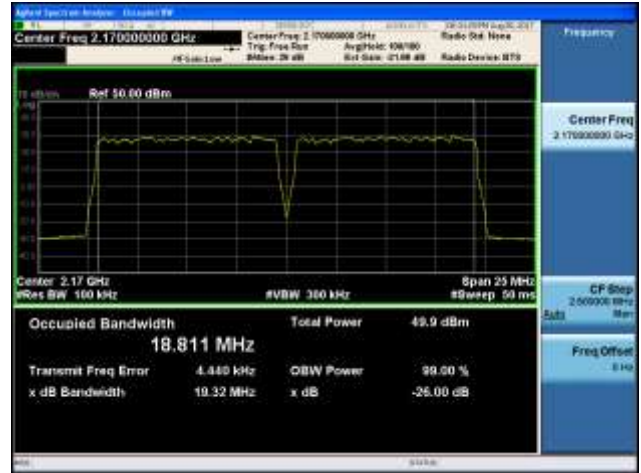


**Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier(Contiguous), 2TX, Top**

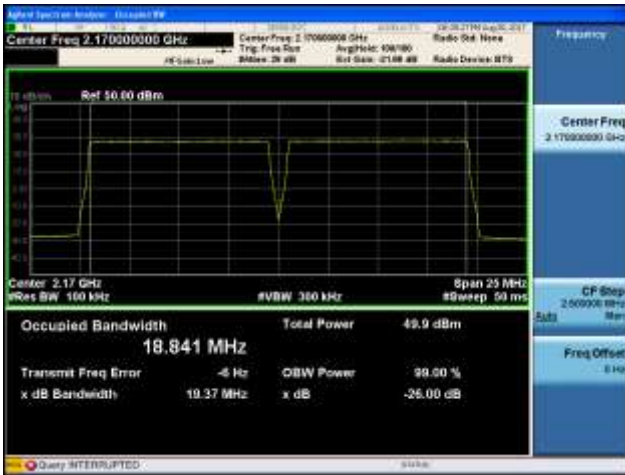
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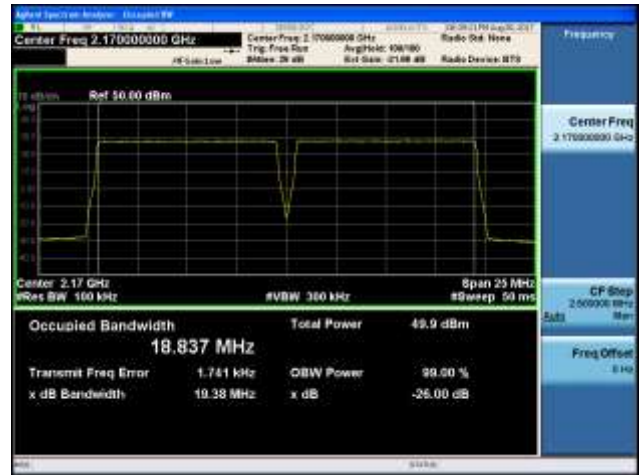
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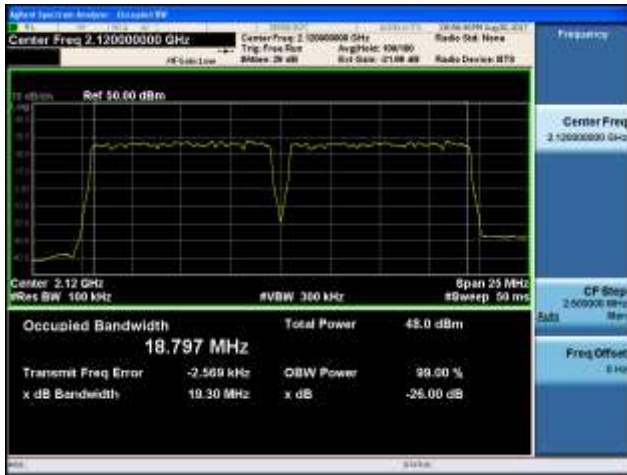


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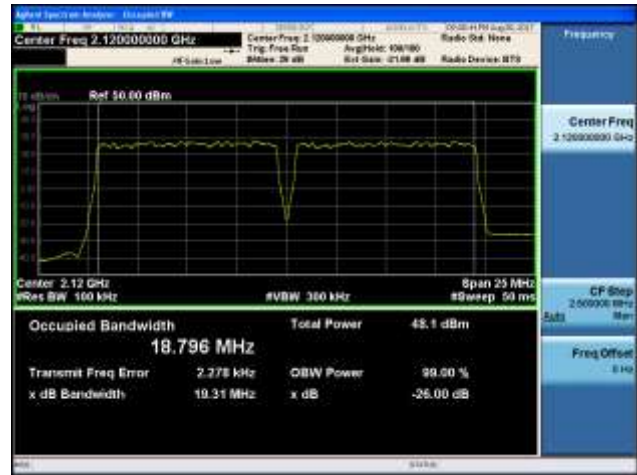


**Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier(Contiguous), 4TX, Bottom**

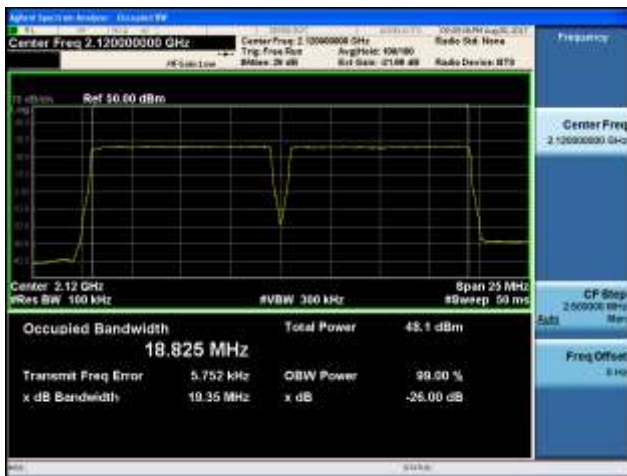
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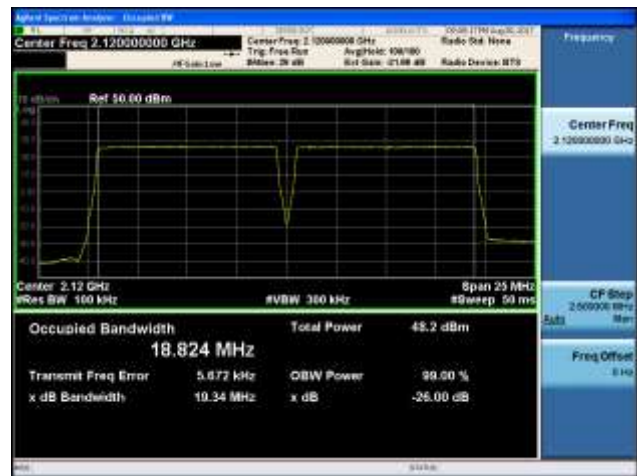
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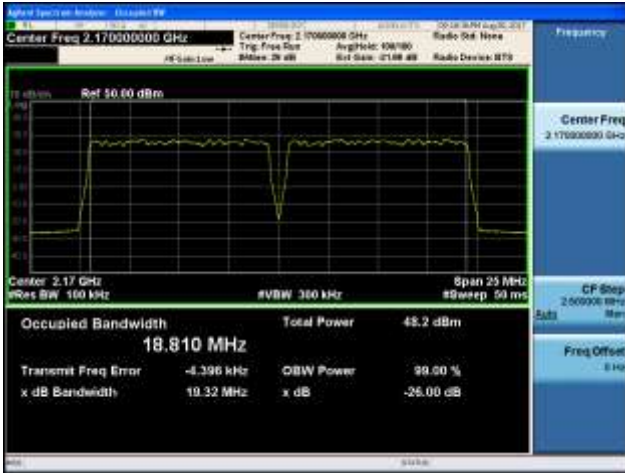


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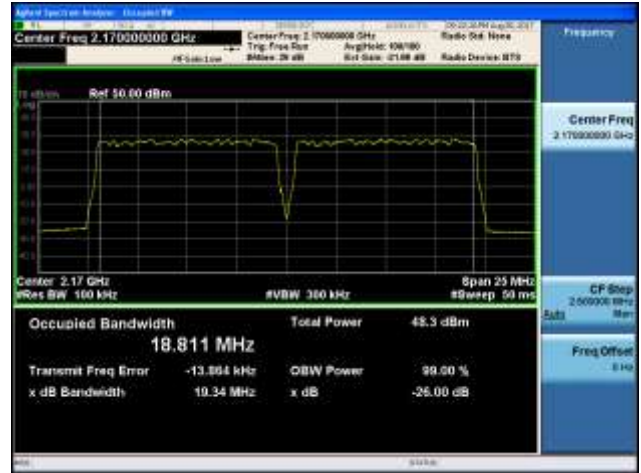
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**Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier(Contiguous), 4TX, Top**

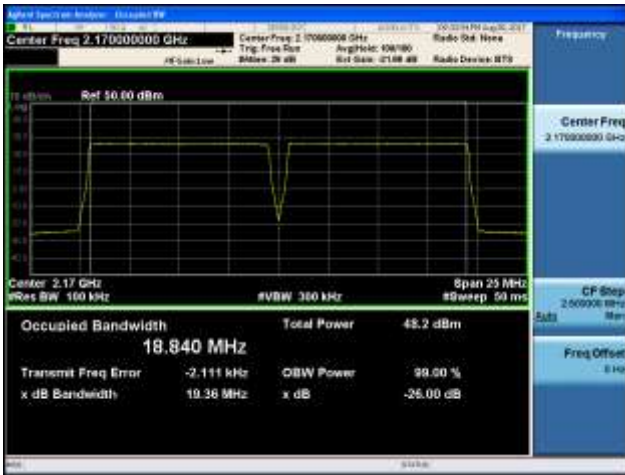
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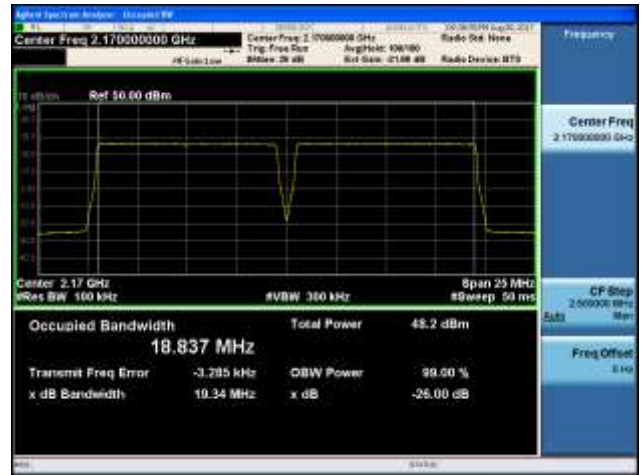
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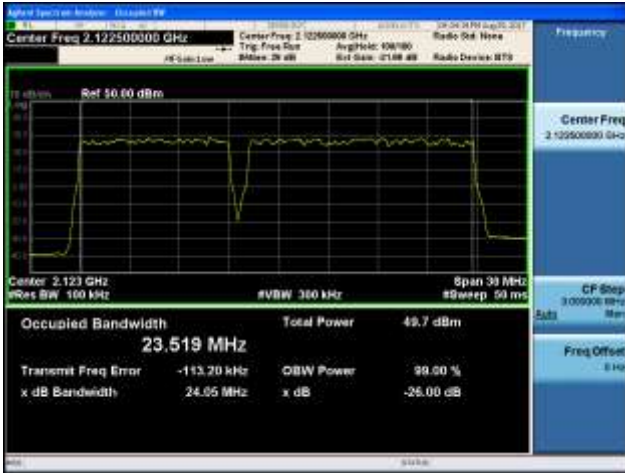
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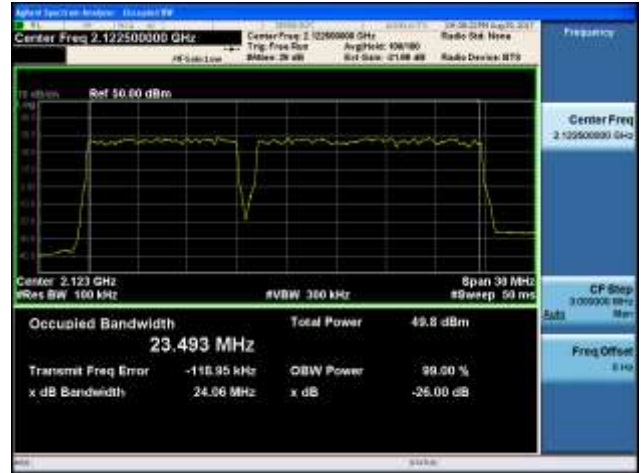


**Band 66, BW 10MHz + BW 15MHz, Multi 2 carrier(Contiguous), 2TX, Bottom**

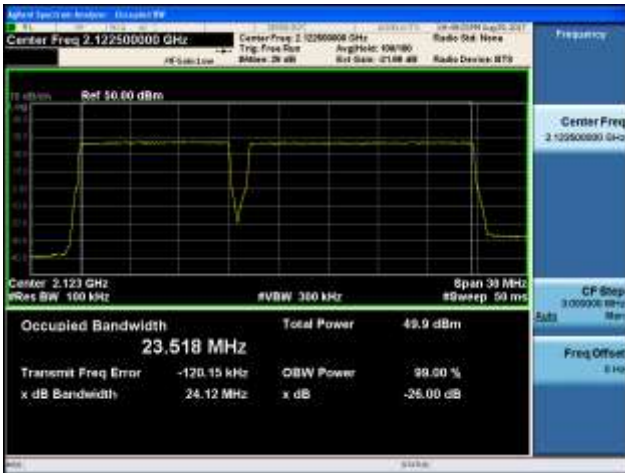
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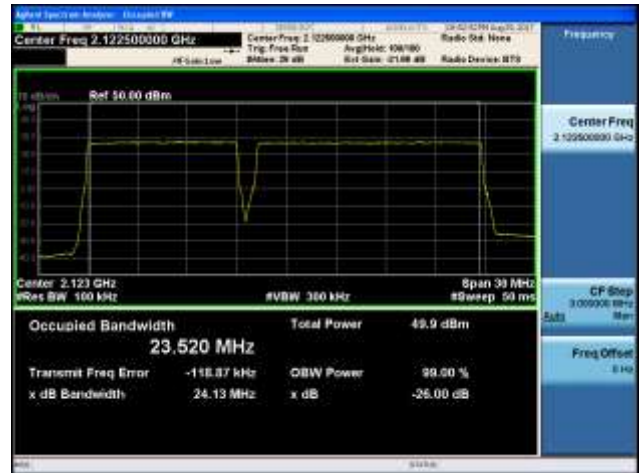
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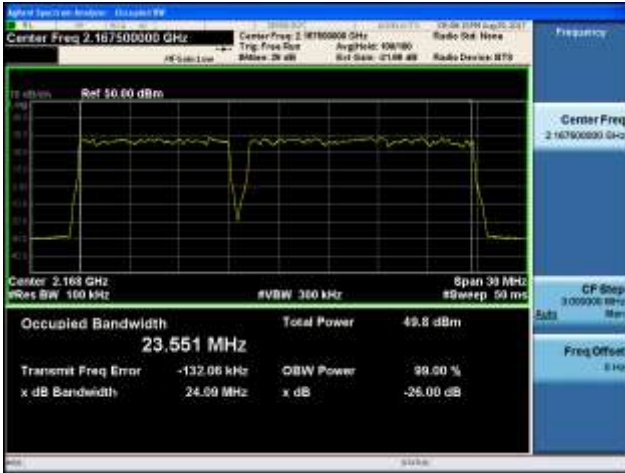


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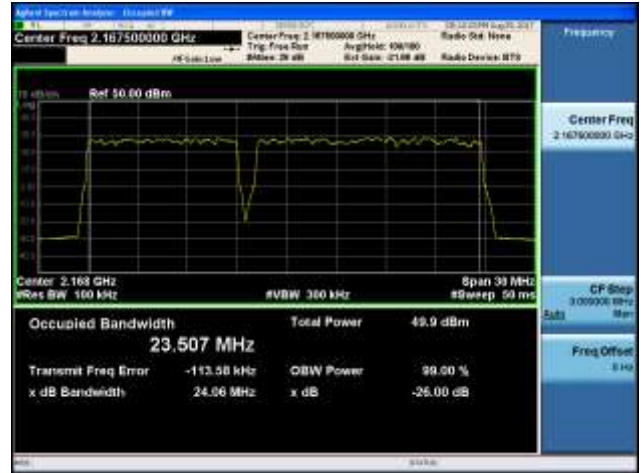
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**Band 66, BW 10MHz + BW 15MHz, Multi 2 carrier(Contiguous), 2TX, Top**

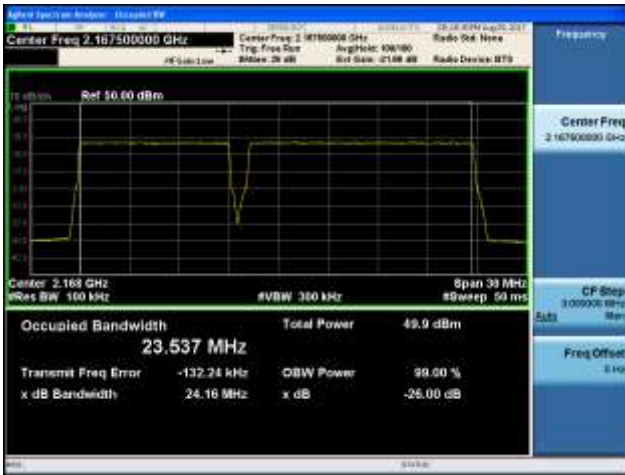
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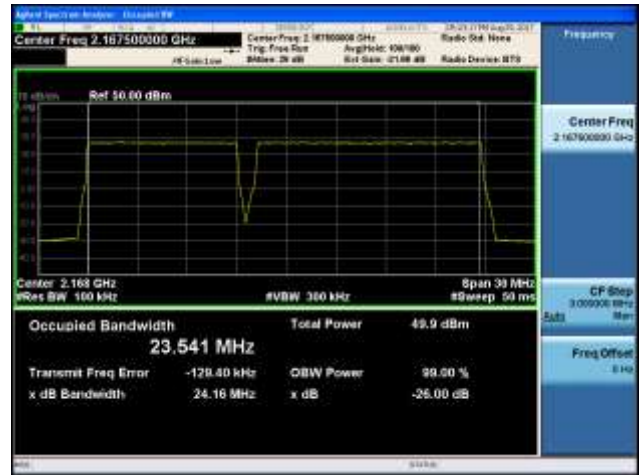
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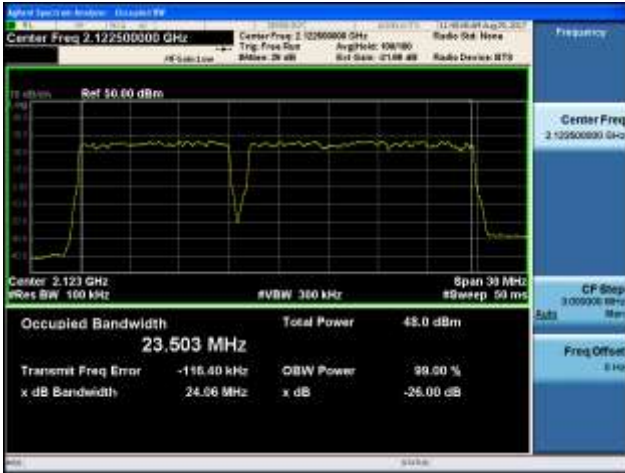
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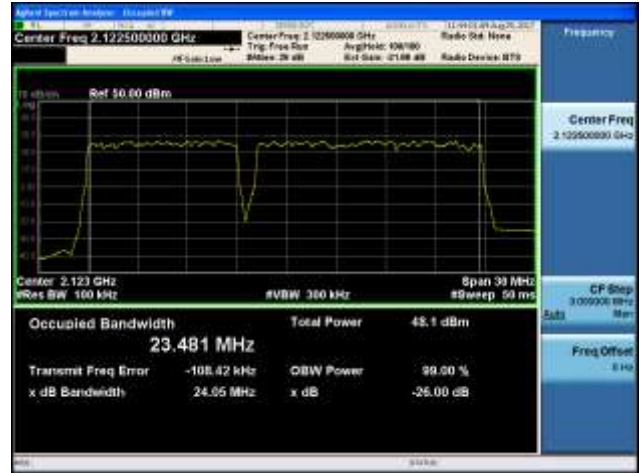


**Band 66, BW 10MHz + BW 15MHz, Multi 2 carrier(Contiguous), 4TX, Bottom**

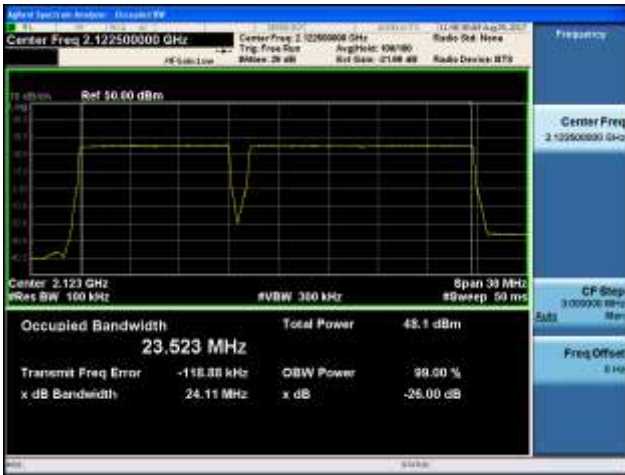
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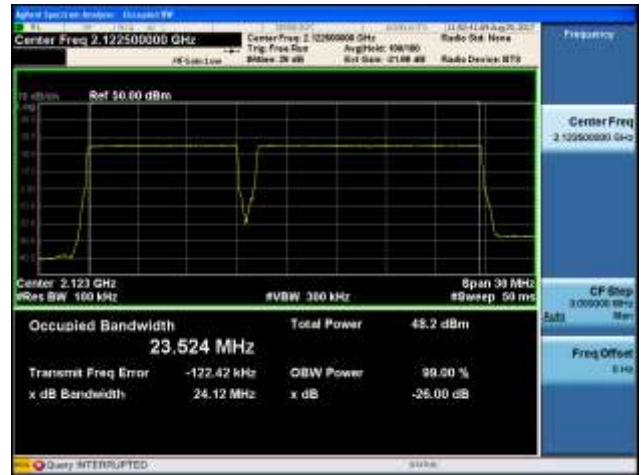
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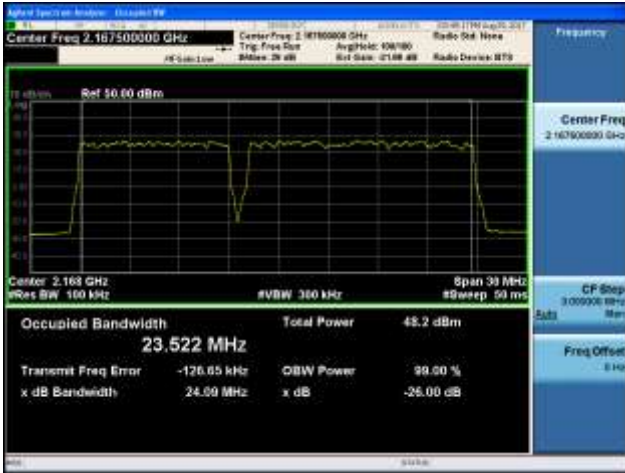


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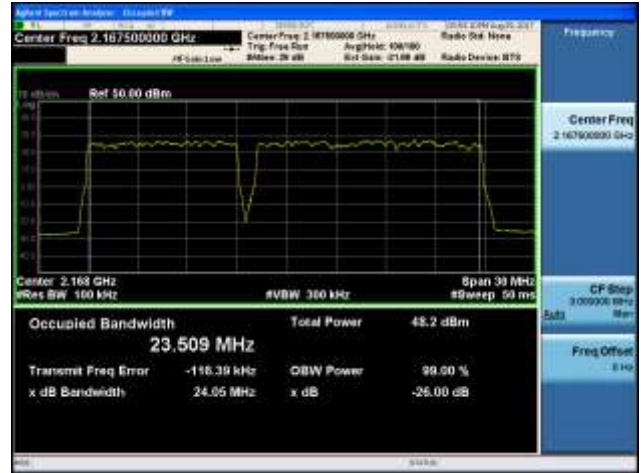
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**Band 66, BW 10MHz + BW 15MHz, Multi 2 carrier(Contiguous), 4TX, Top**

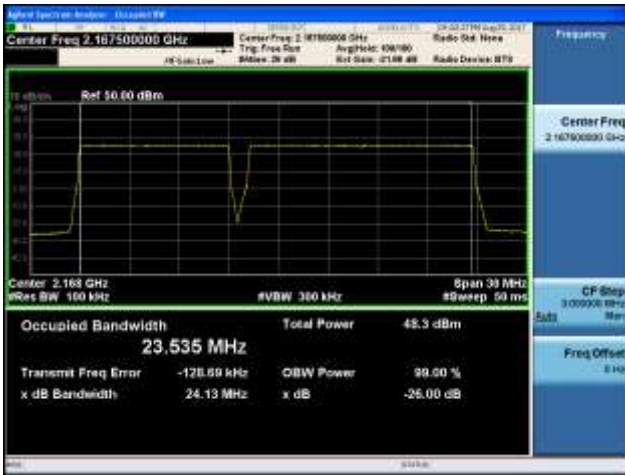
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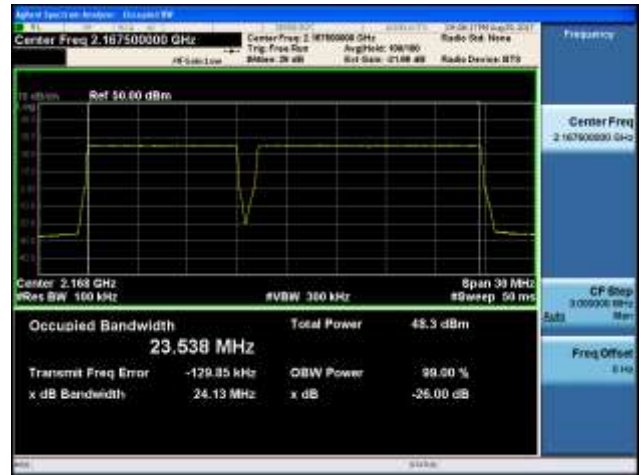
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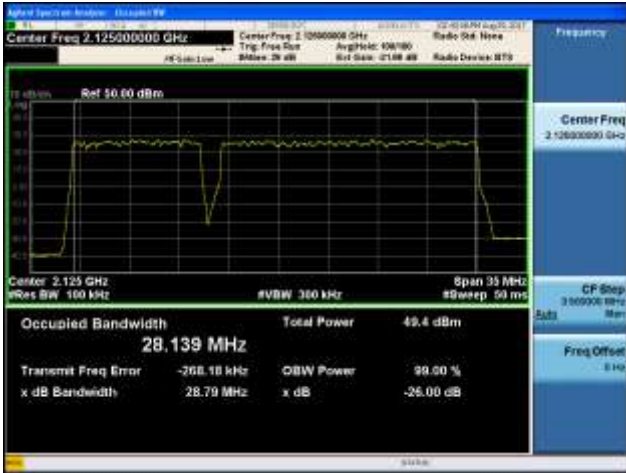


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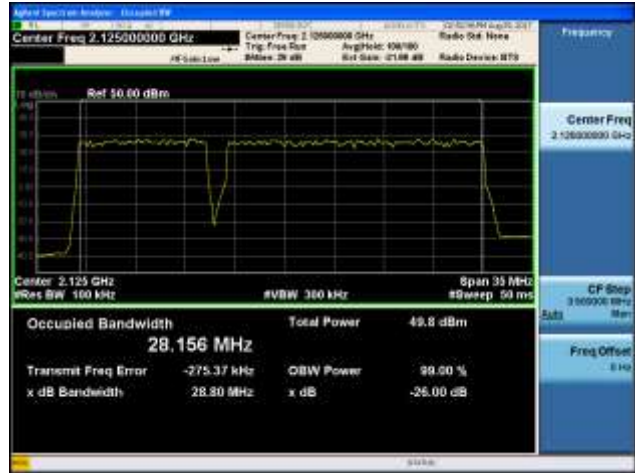
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**Band 66, BW 10MHz + BW 20MHz, Multi 2 carrier(Contiguous), 2TX, Bottom**

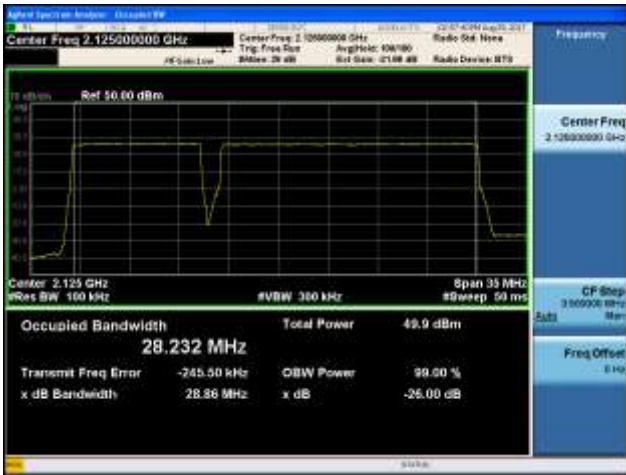
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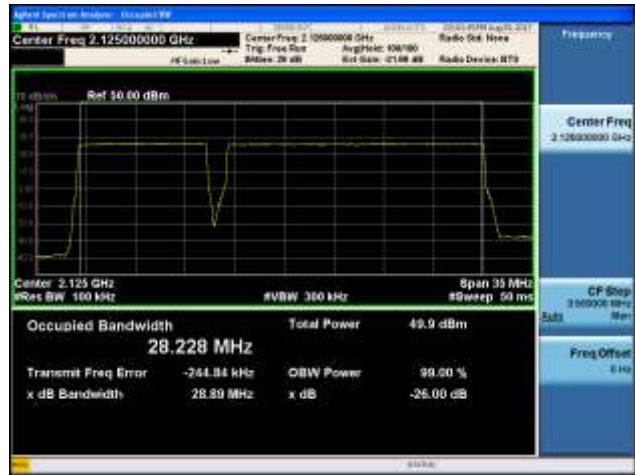
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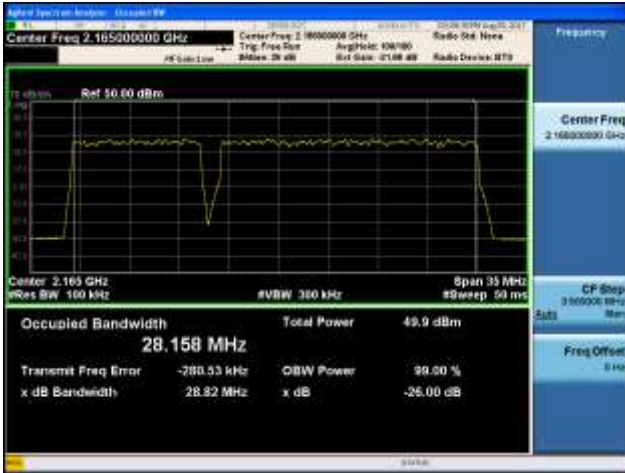


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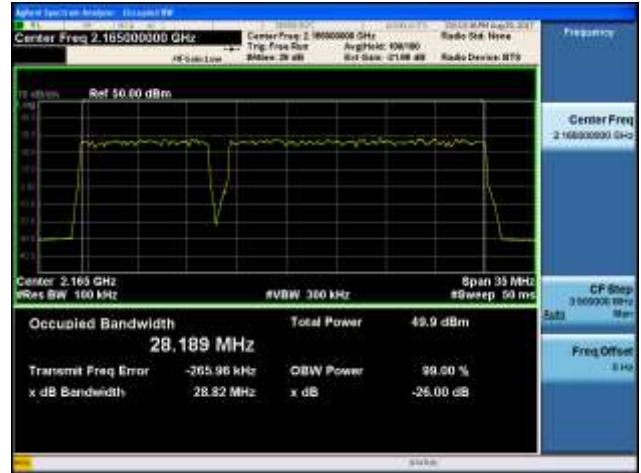
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**Band 66, BW 10MHz + BW 20MHz, Multi 2 carrier(Contiguous), 2TX, Top**

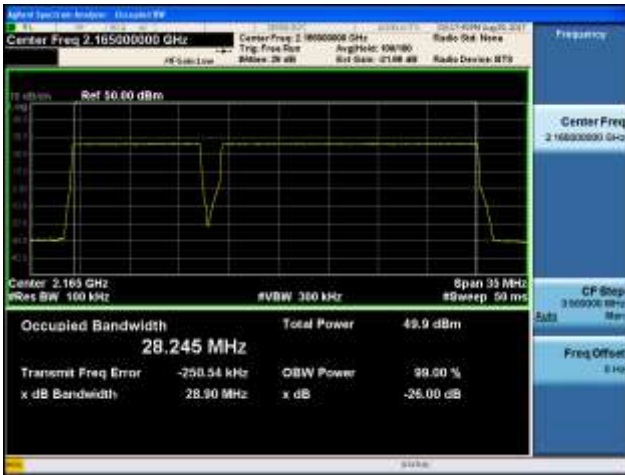
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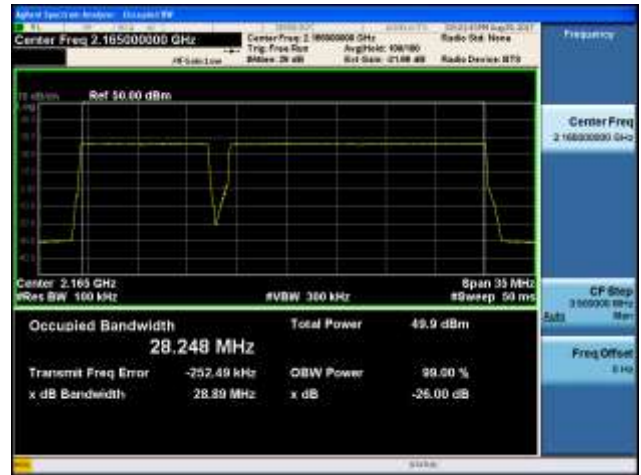
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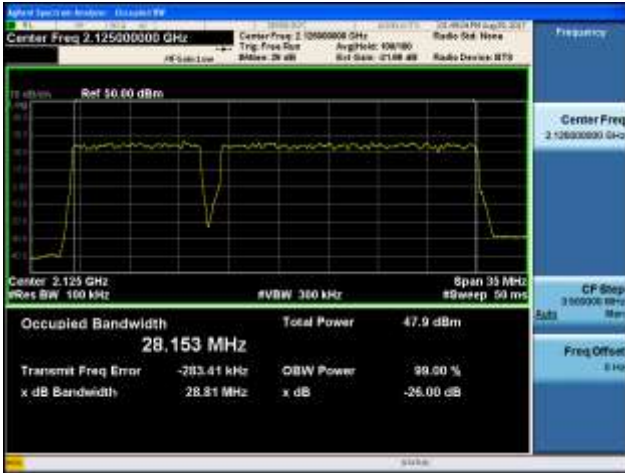


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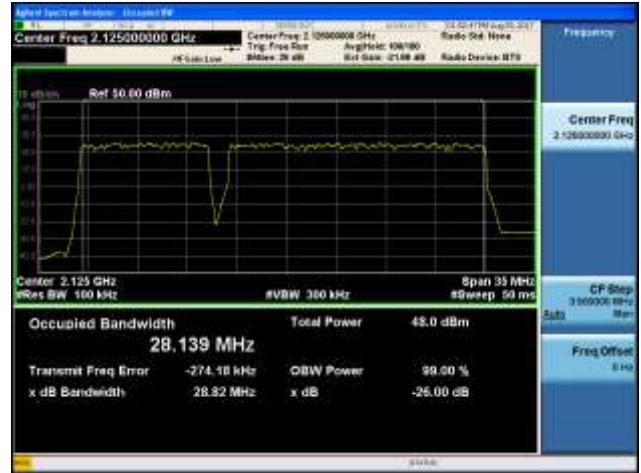
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**Band 66, BW 10MHz + BW 20MHz, Multi 2 carrier(Contiguous), 4TX, Bottom**

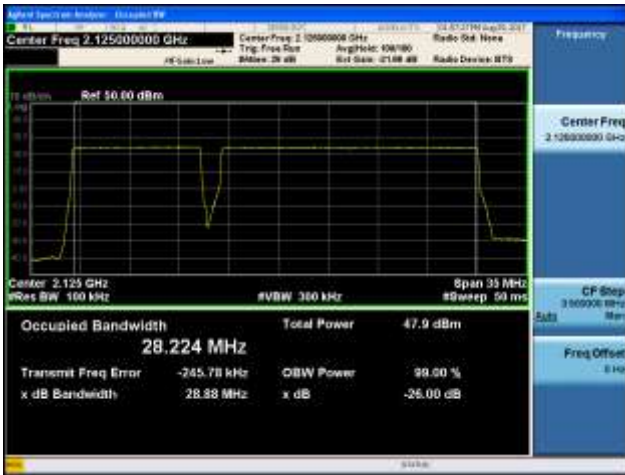
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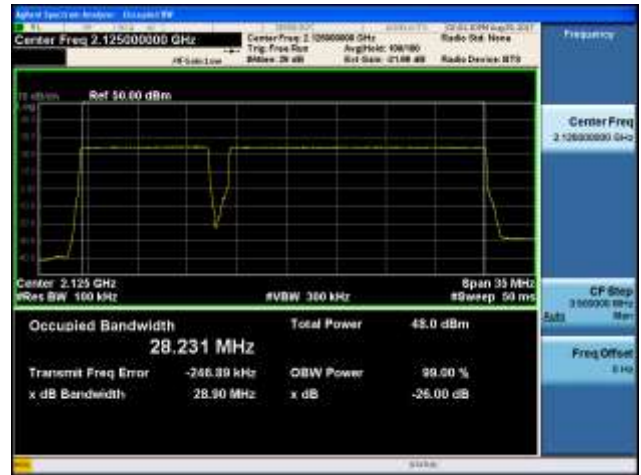
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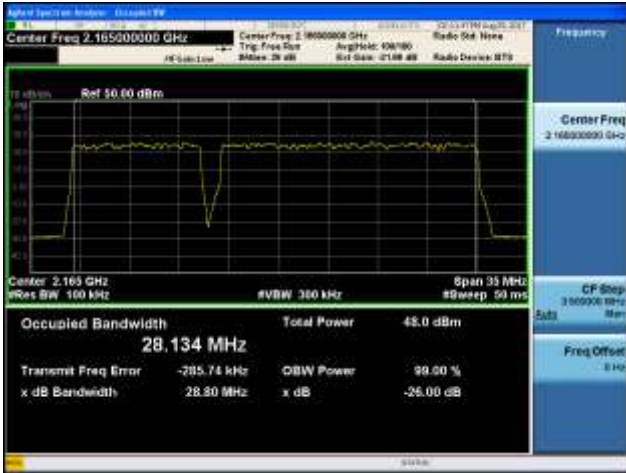


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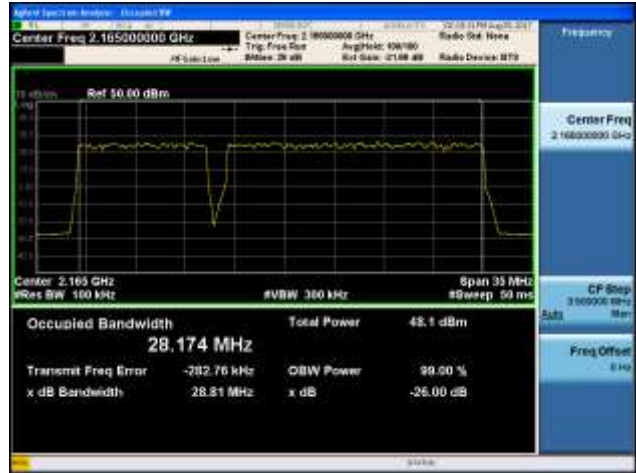
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**Band 66, BW 10MHz + BW 20MHz, Multi 2 carrier(Contiguous), 4TX, Top**

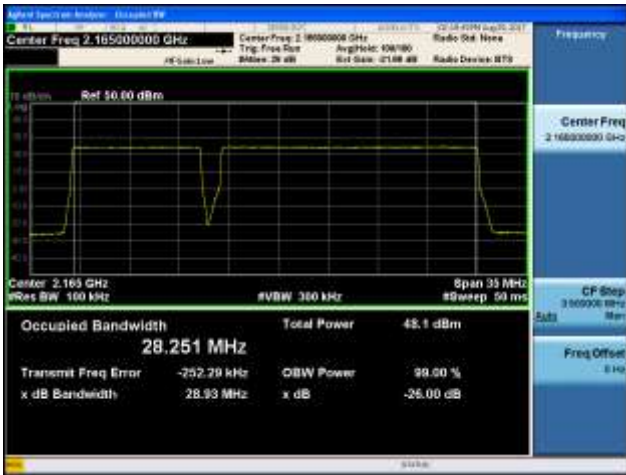
QPSK



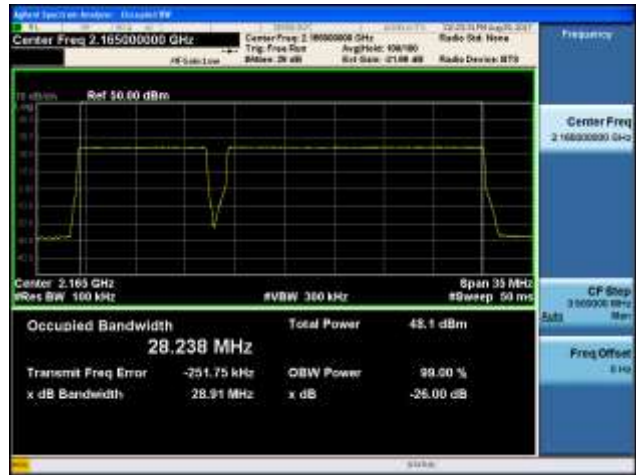
16QAM



64QAM



256QAM



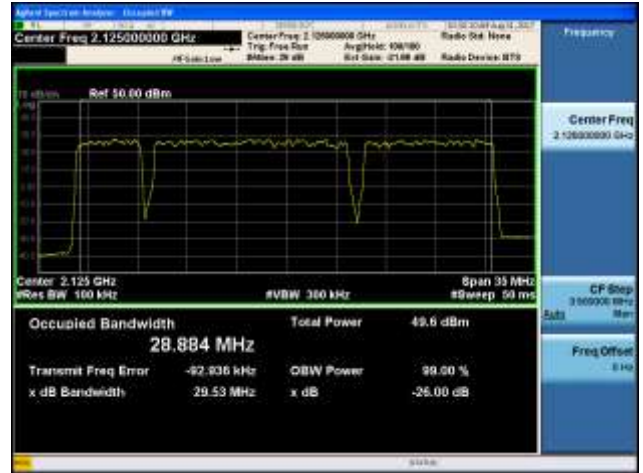


**Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Bottom**

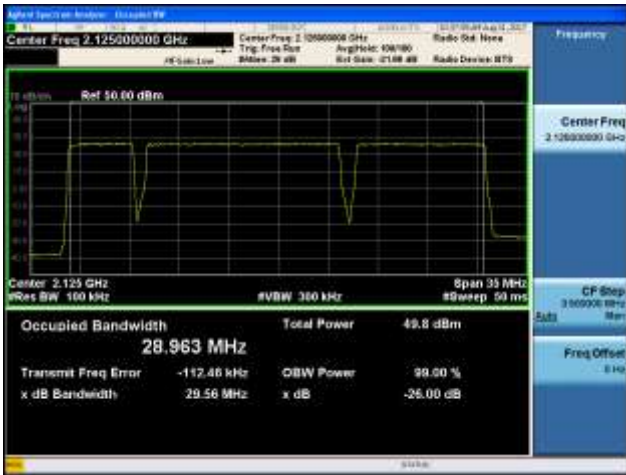
QPSK



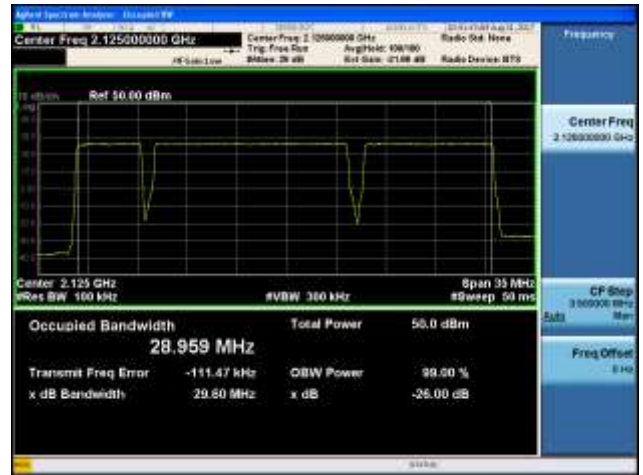
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64QAM



256QAM



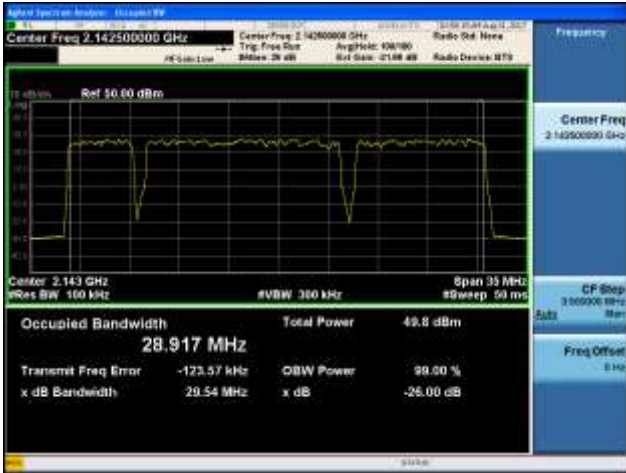


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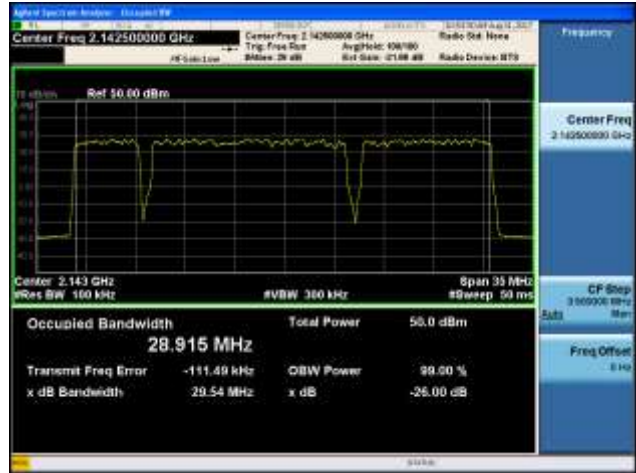
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**Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Middle**

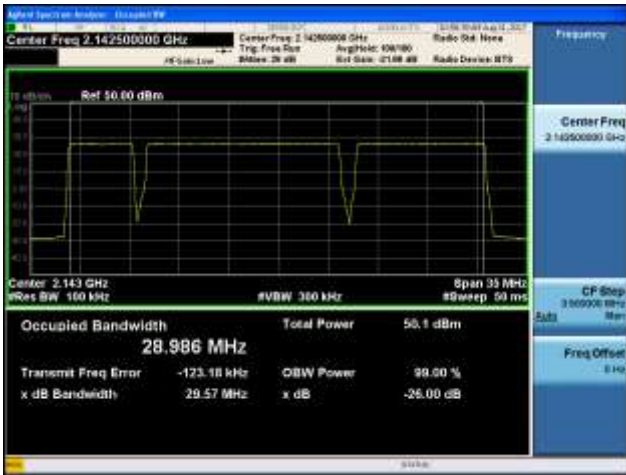
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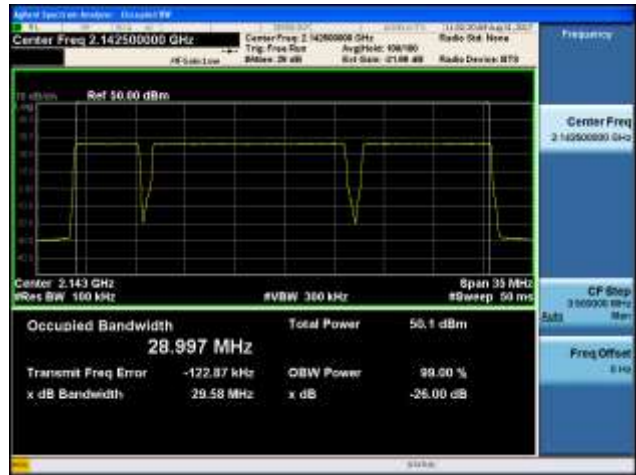
16QAM



64QAM



256QAM





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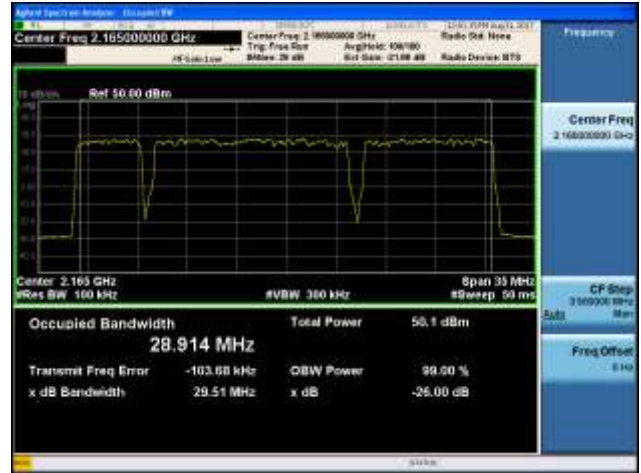
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**Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Top**

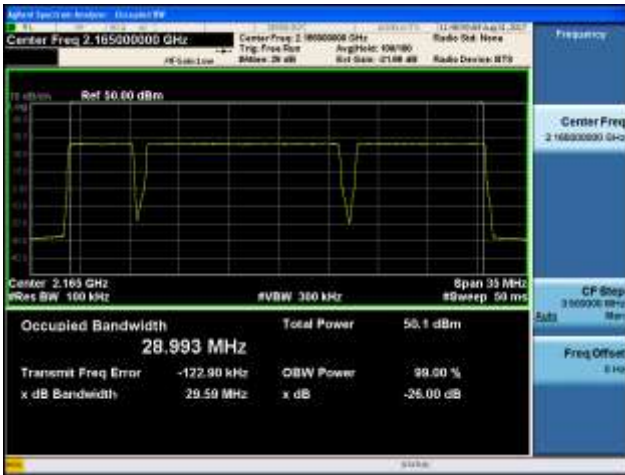
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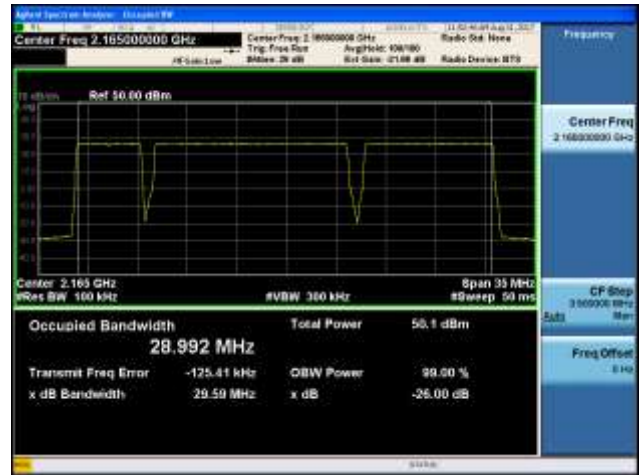
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64QAM



256QAM



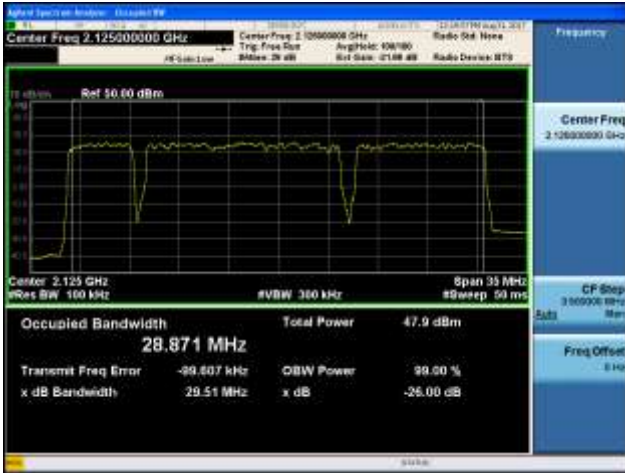


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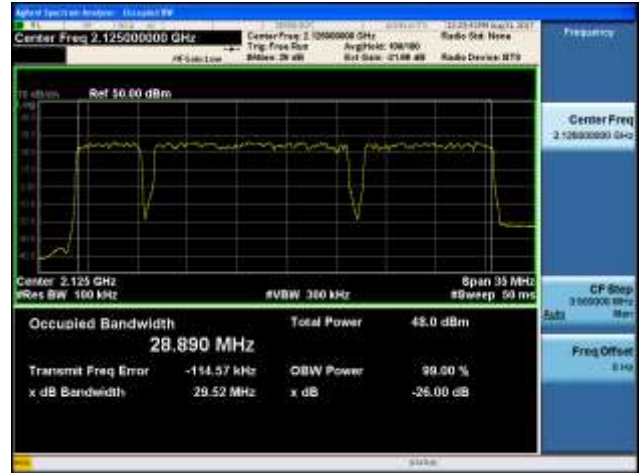
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**Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Bottom**

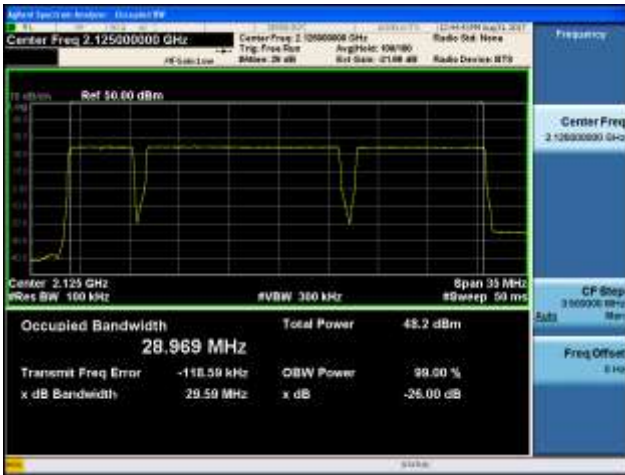
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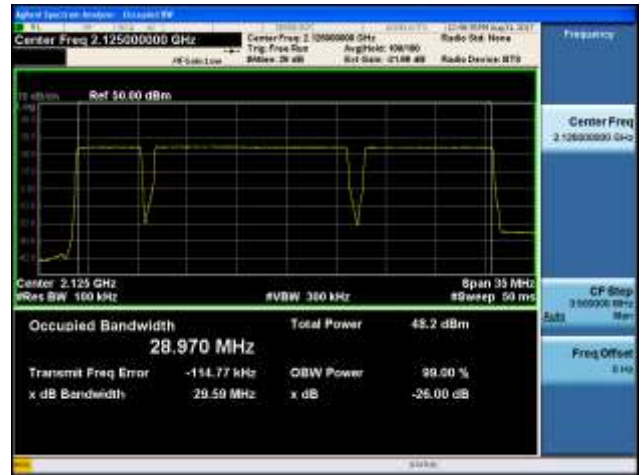
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64QAM



256QAM



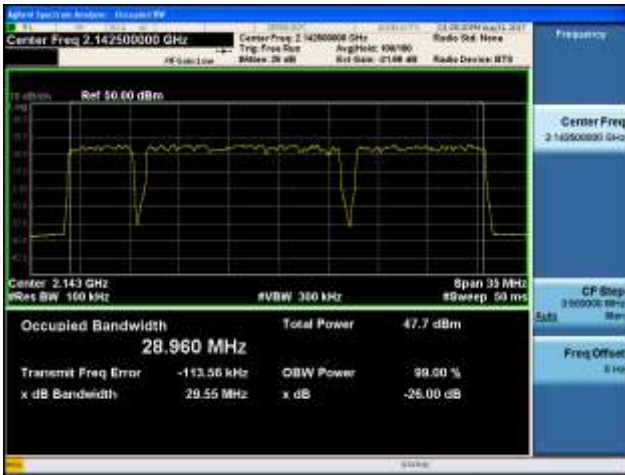


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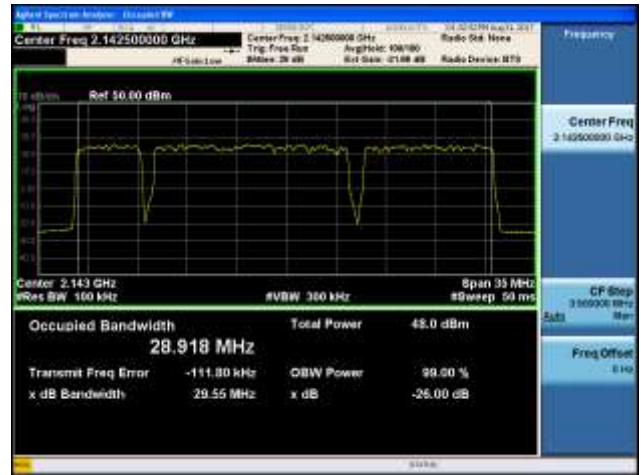
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**Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Middle**

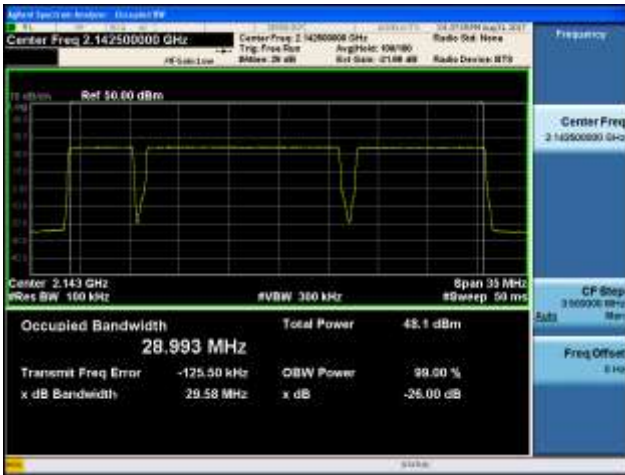
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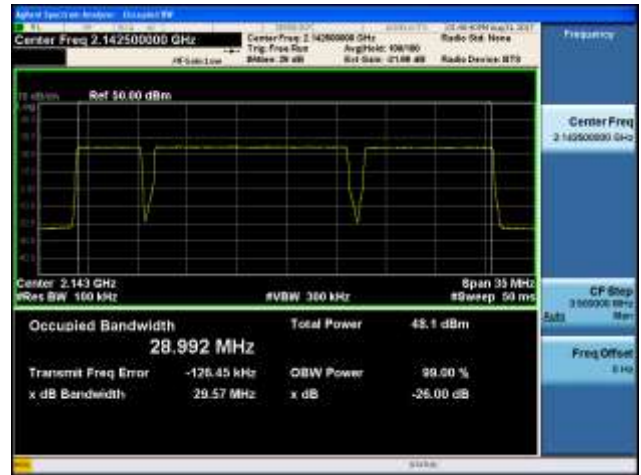
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64QAM



256QAM



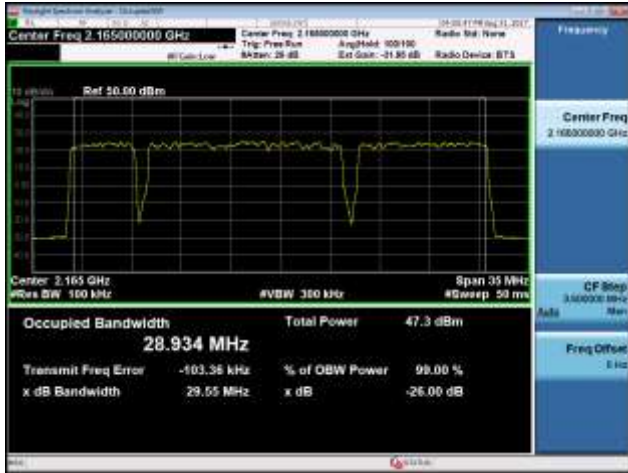


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**Band 66, BW 5MHz + BW 15MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Top**

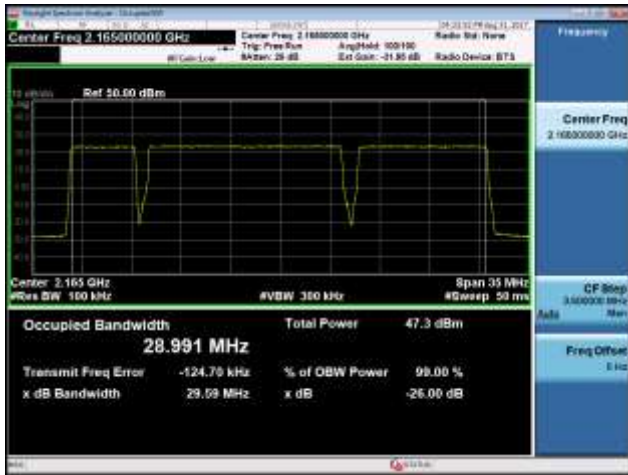
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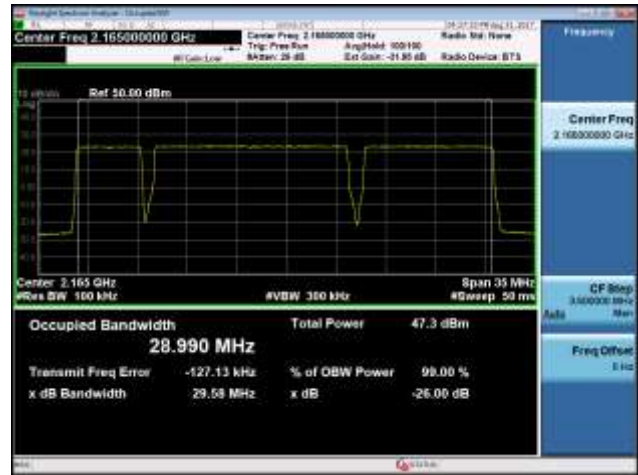
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64QAM



256QAM



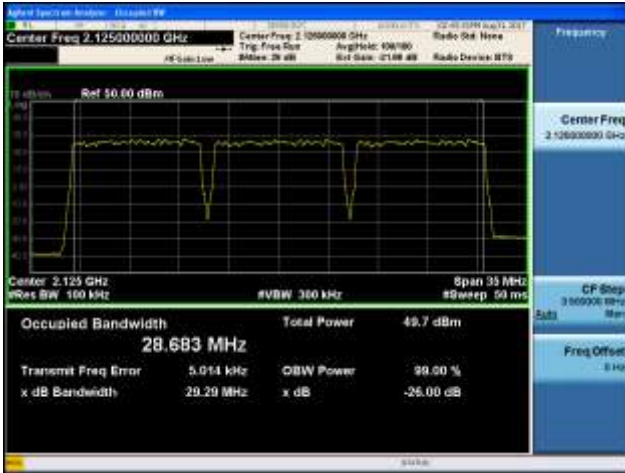


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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Bottom**

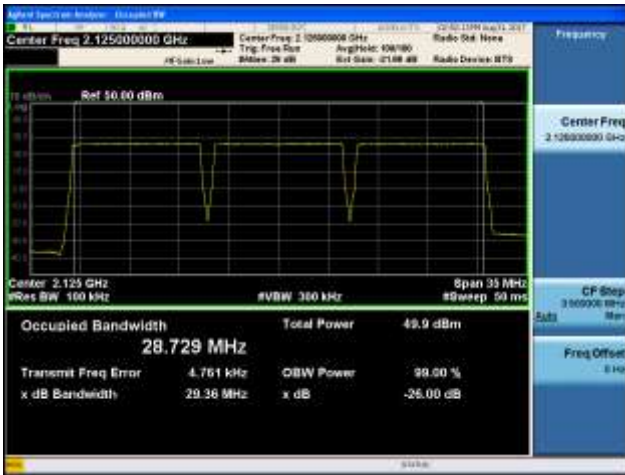
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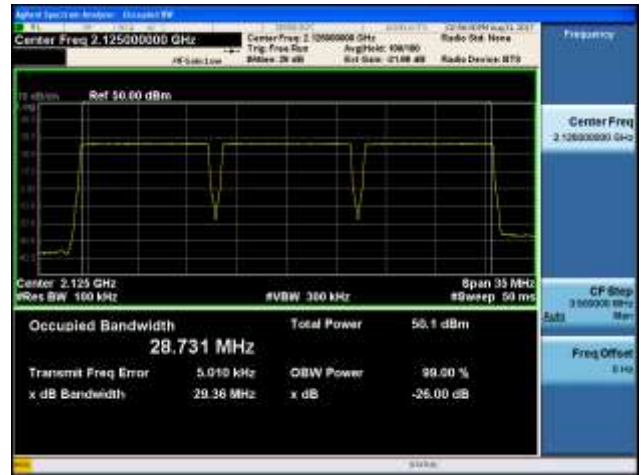
16QAM



64QAM



256QAM



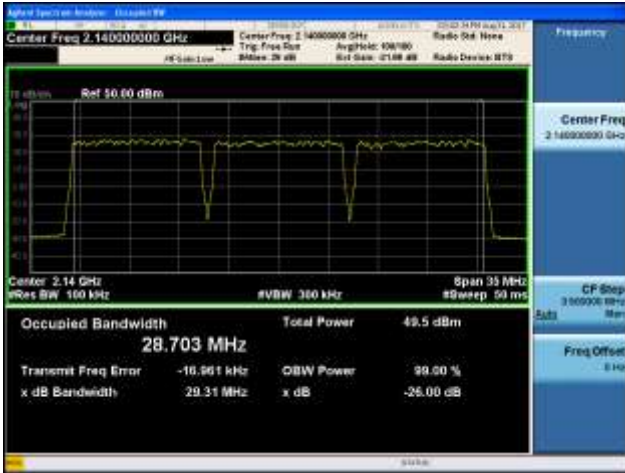


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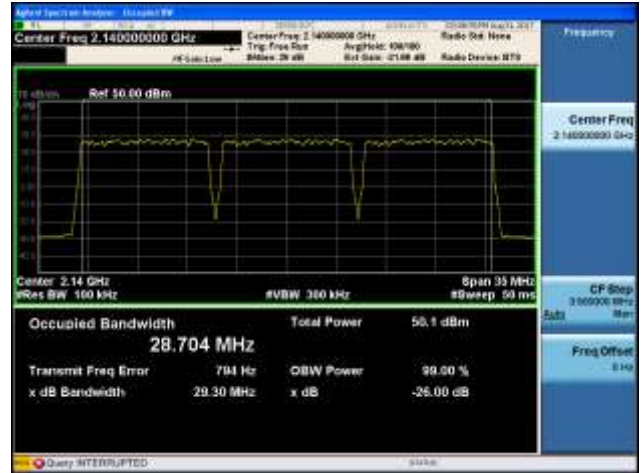
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Middle**

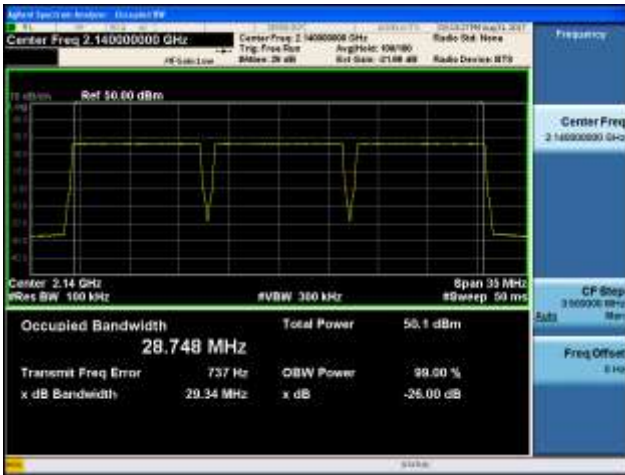
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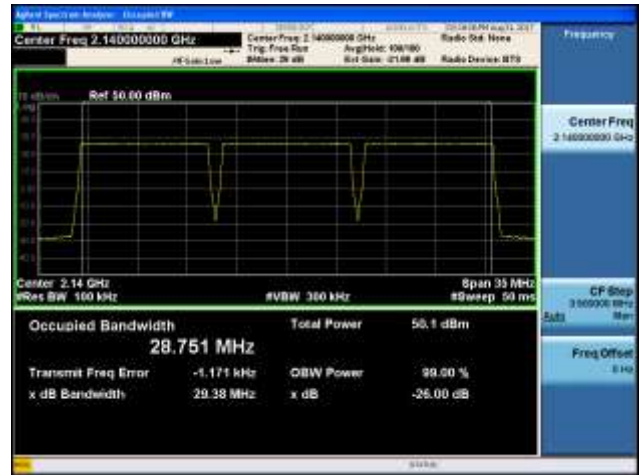
16QAM



64QAM



256QAM





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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Top**

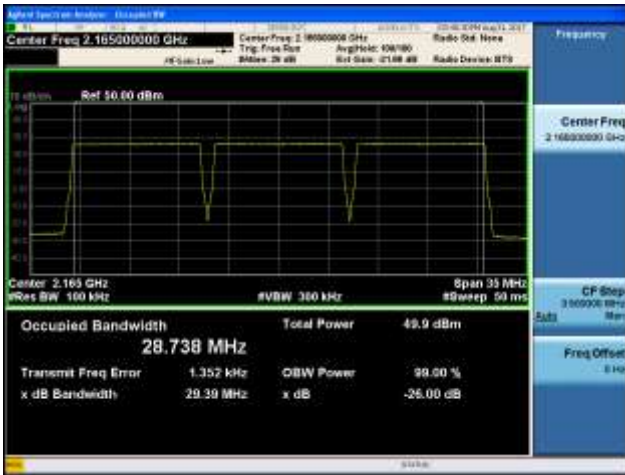
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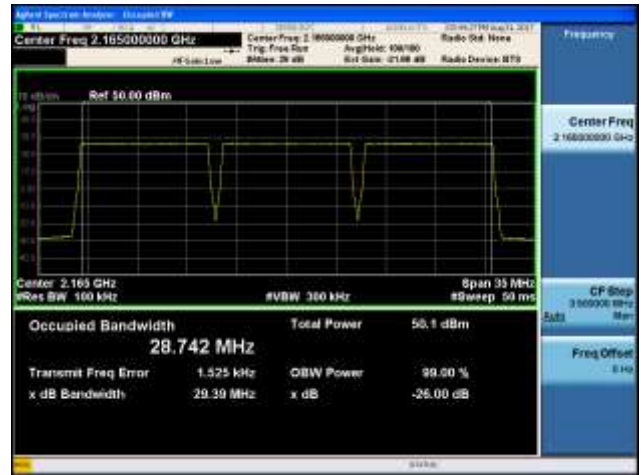
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64QAM



256QAM



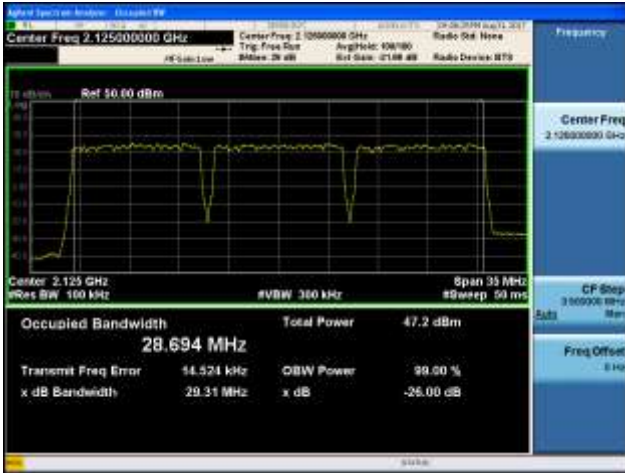


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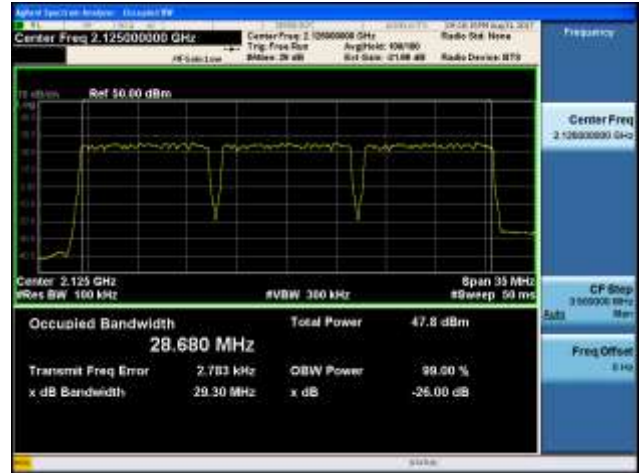
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Bottom**

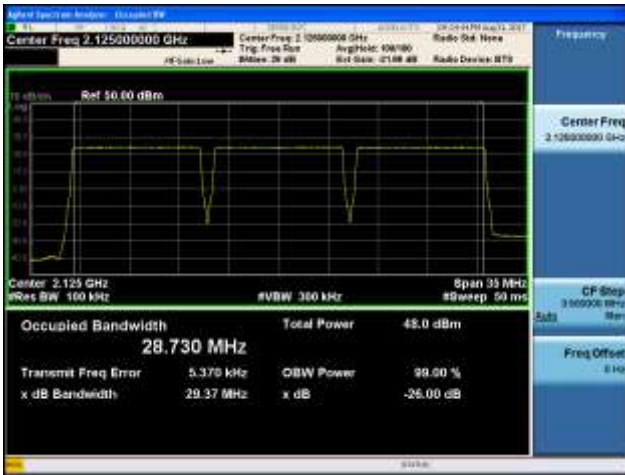
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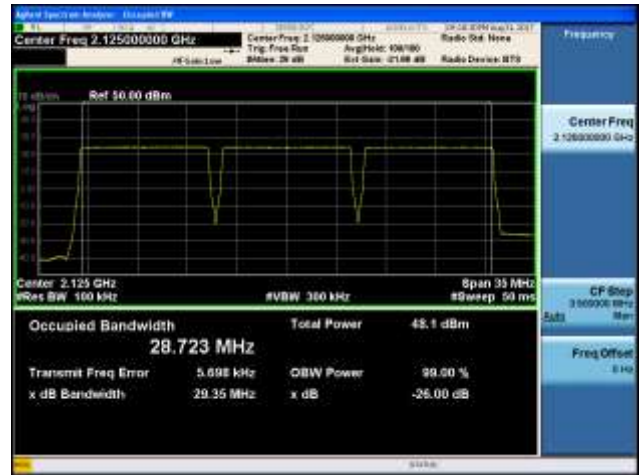
16QAM



64QAM



256QAM





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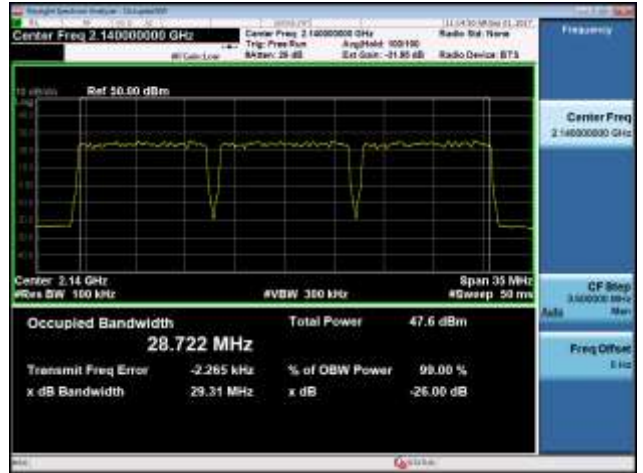
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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Middle**

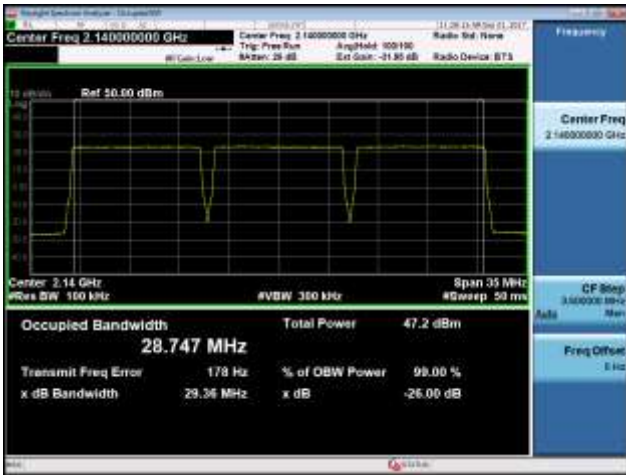
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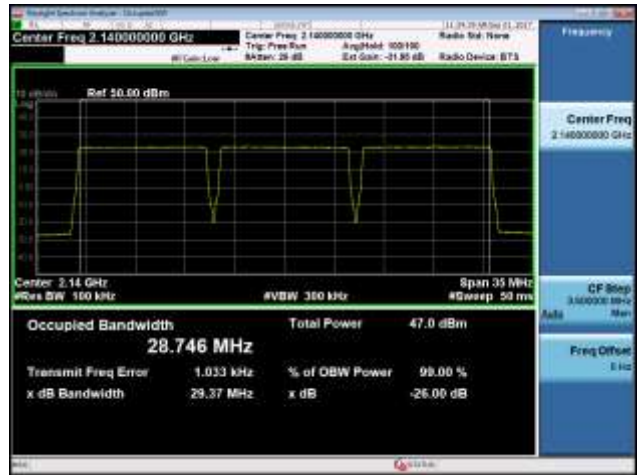
16QAM



64QAM



256QAM





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**Band 66, BW 10MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Top**

QPSK



16QAM



64QAM



256QAM





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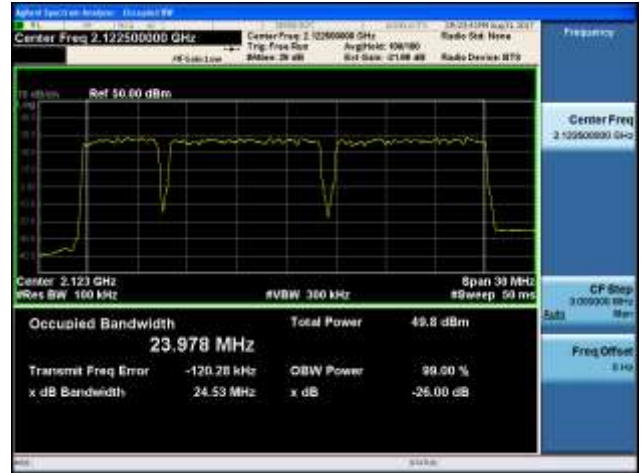
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**Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Bottom**

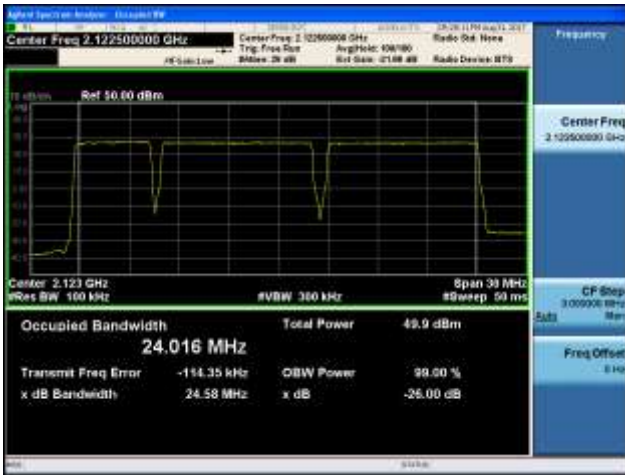
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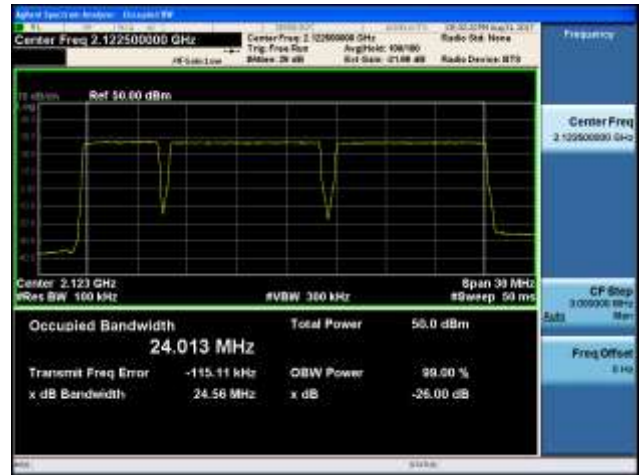
16QAM



64QAM



256QAM



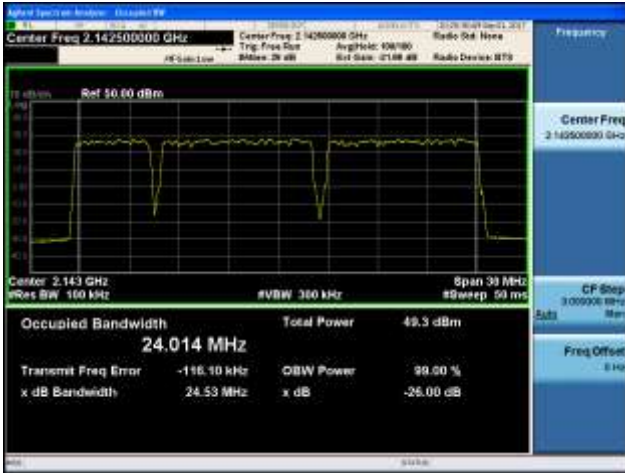


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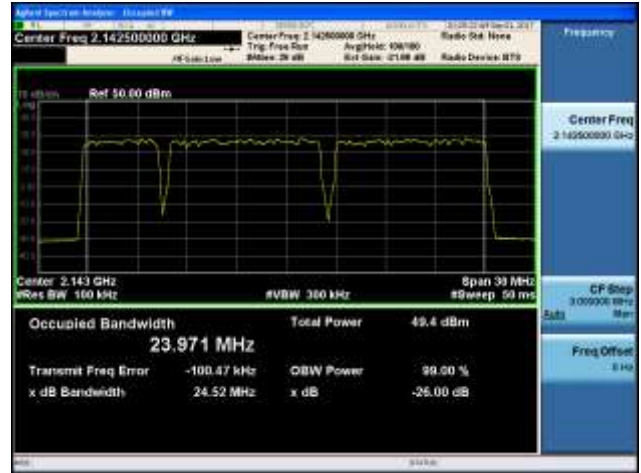
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**Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Middle**

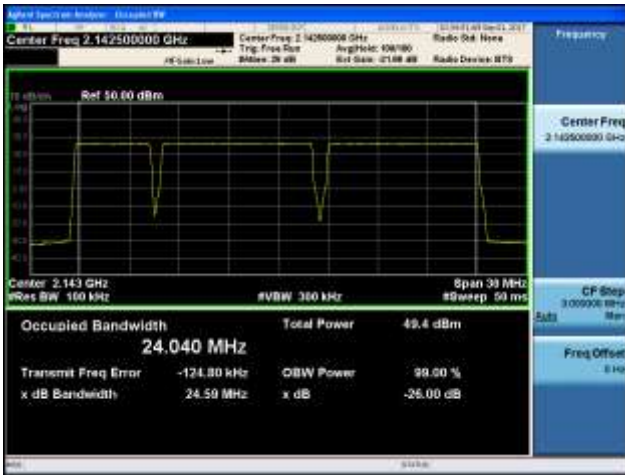
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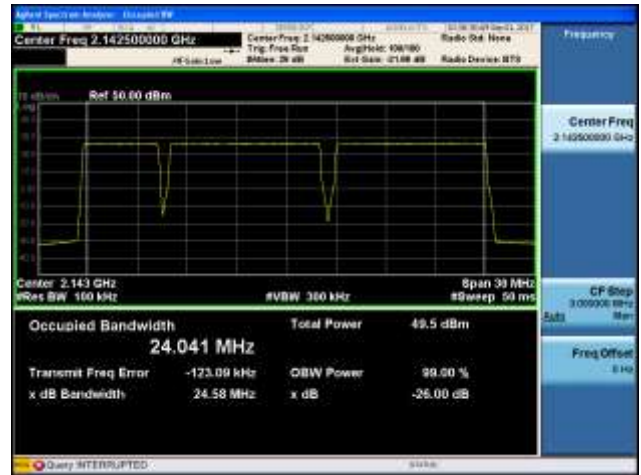
16QAM



64QAM



256QAM



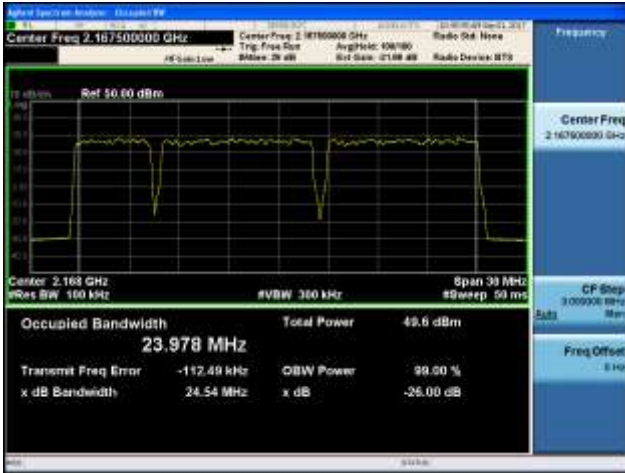


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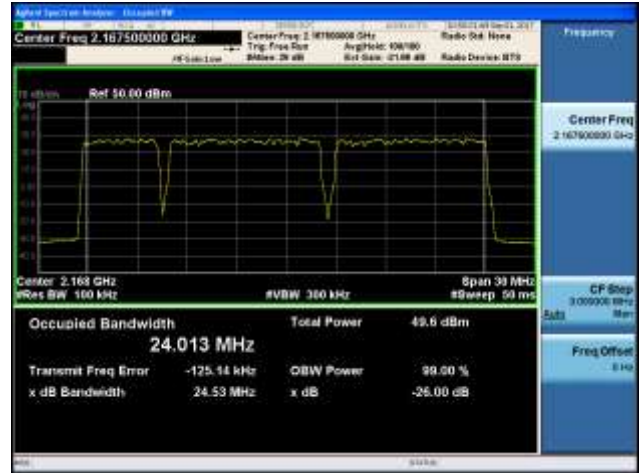
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**Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 2TX, Top**

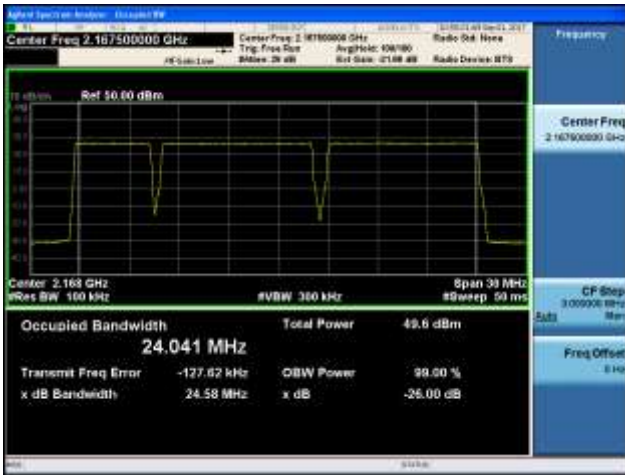
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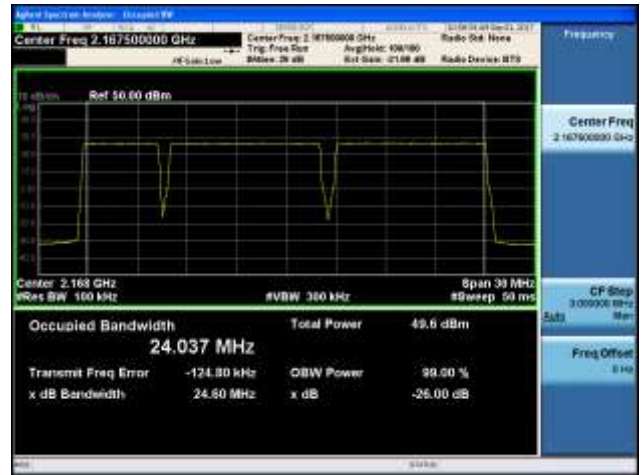
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64QAM



256QAM



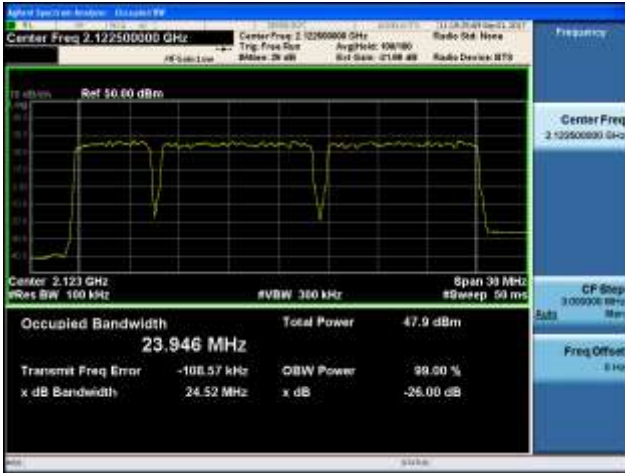


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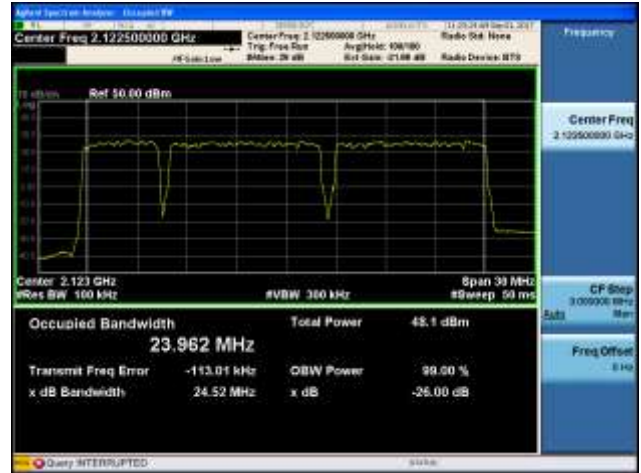
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**Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Bottom**

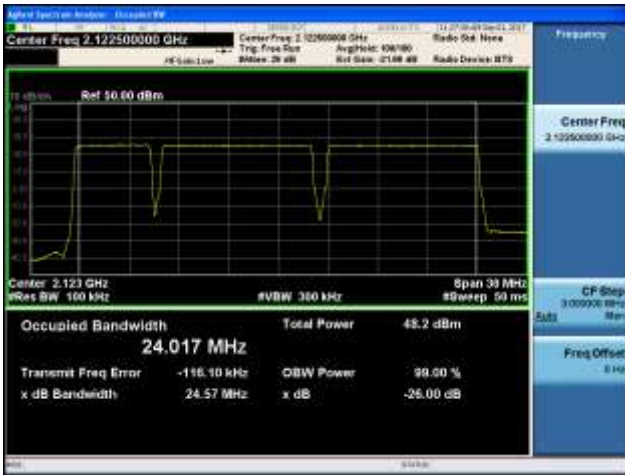
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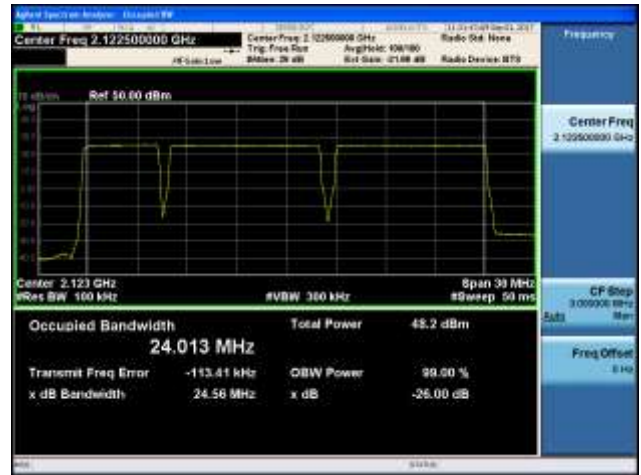
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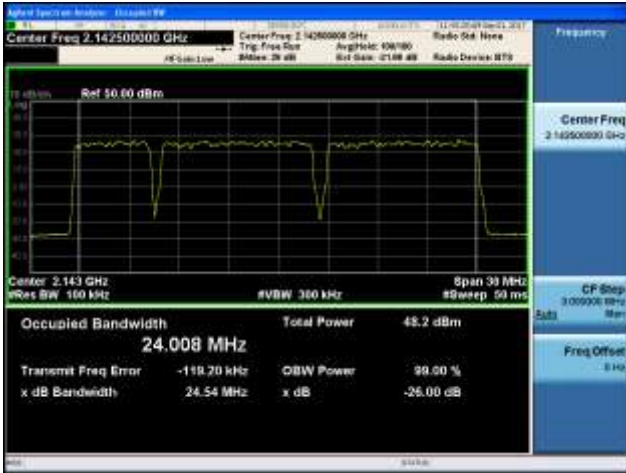


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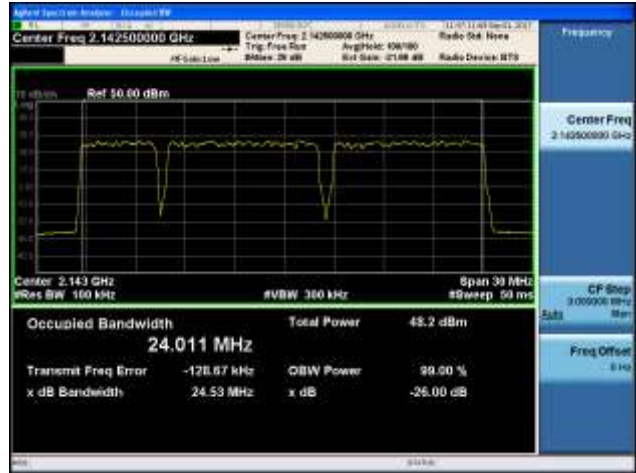
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**Band 66, BW 5MHz + BW 10MHz + BW 10MHz, Multi 3 carrier(Contiguous), 4TX, Middle**

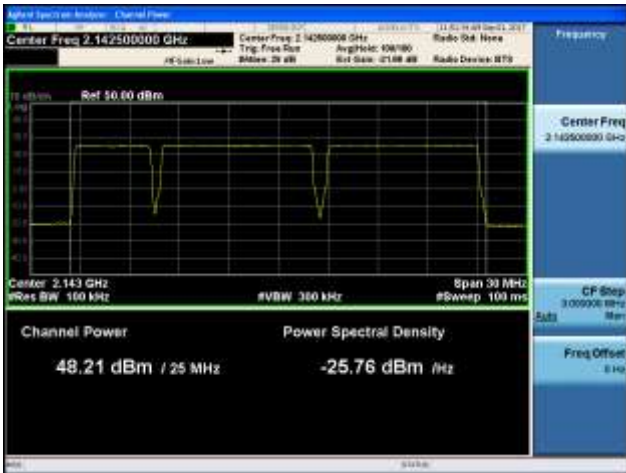
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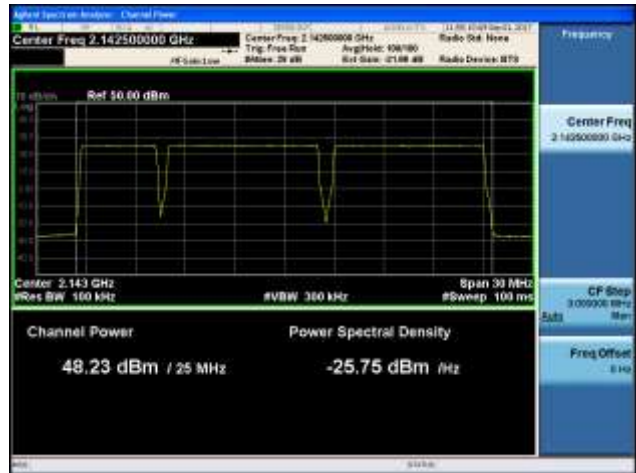
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64QAM



256QAM





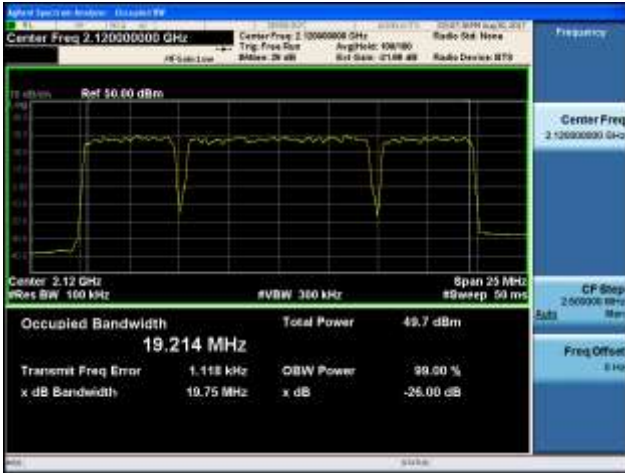


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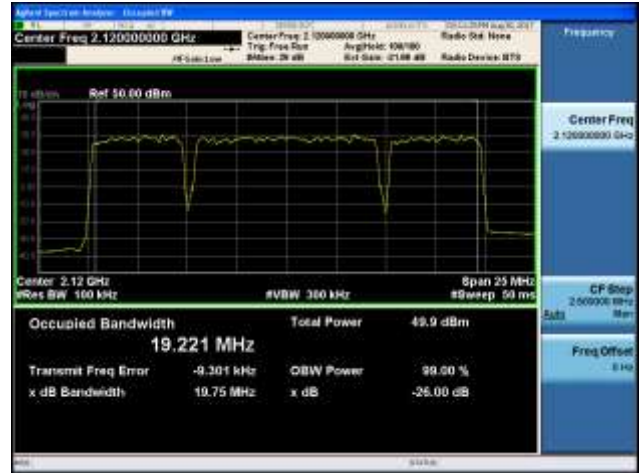
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Contiguous), 2TX, Bottom**

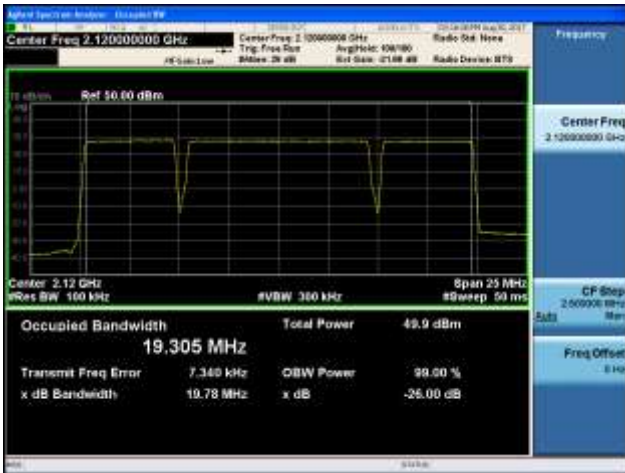
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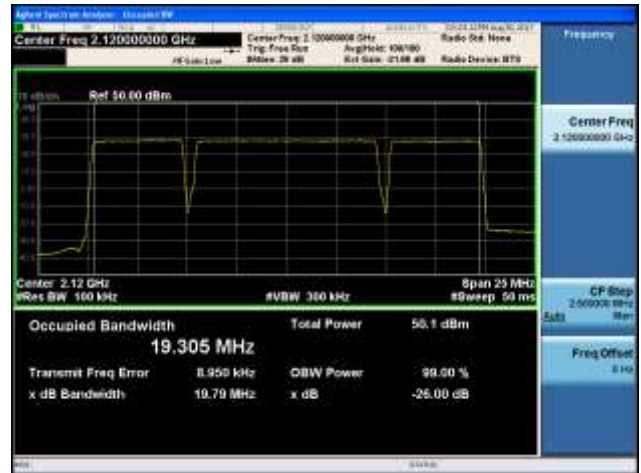
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64QAM



256QAM



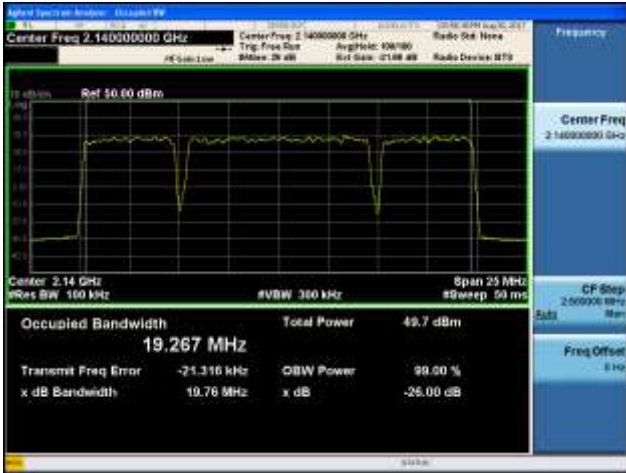


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 (Ho-dong), 113, Yejik-ro, Cheoin-gu,  
 Yongin-si, Gyeonggi-do, Korea  
 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

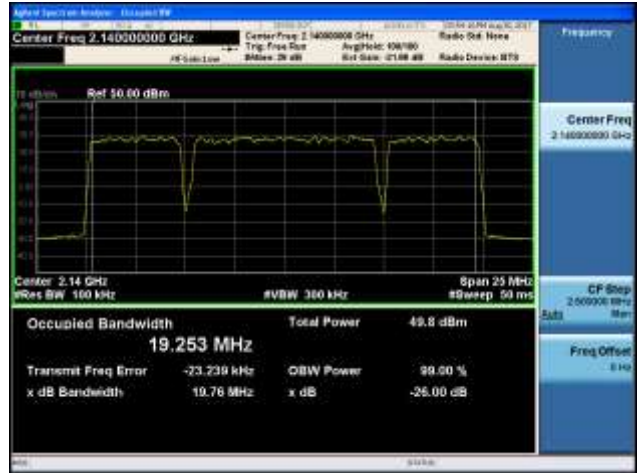
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Contiguous), 2TX, Middle**

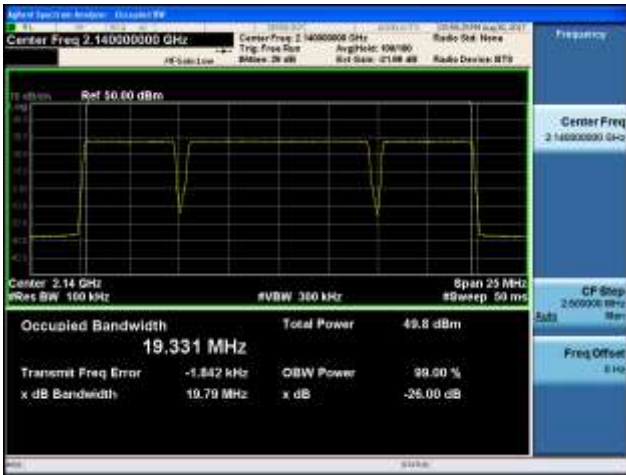
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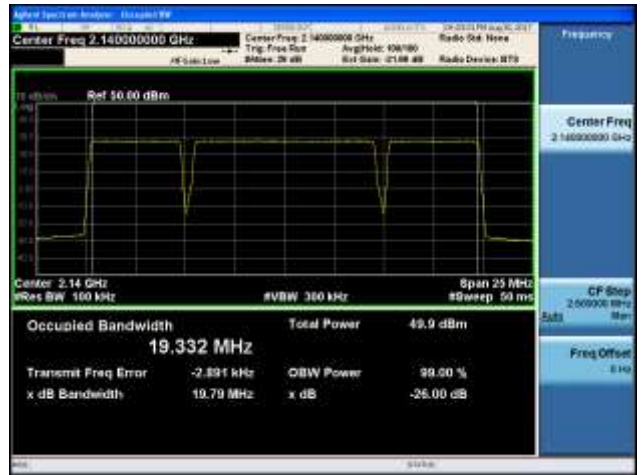
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64QAM



256QAM



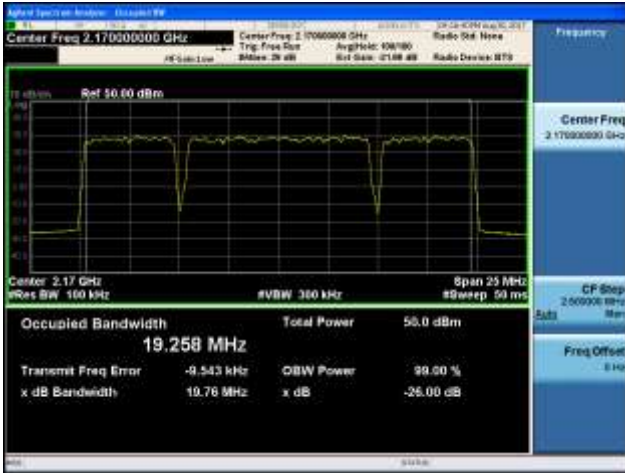


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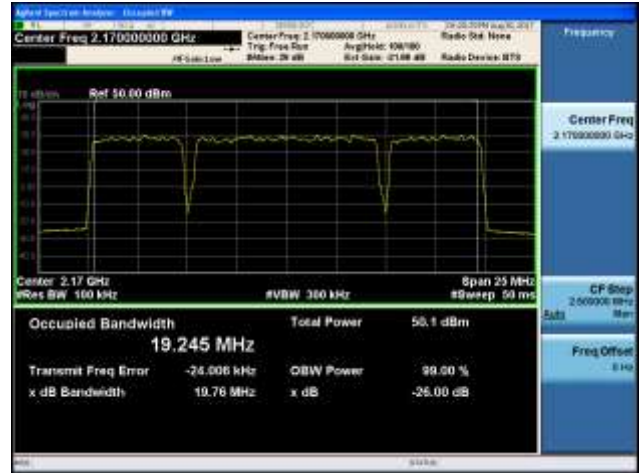
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Contiguous), 2TX, Top**

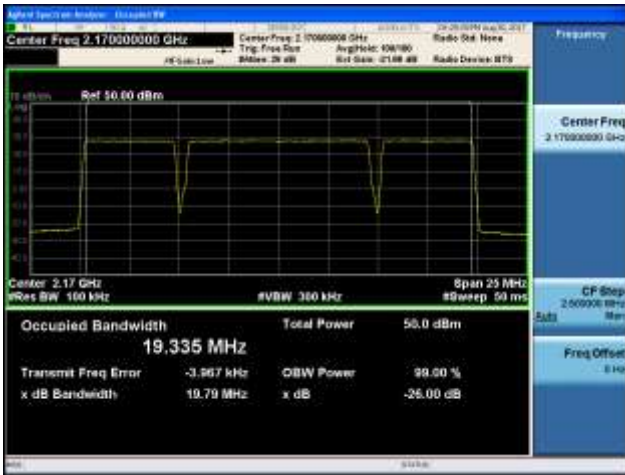
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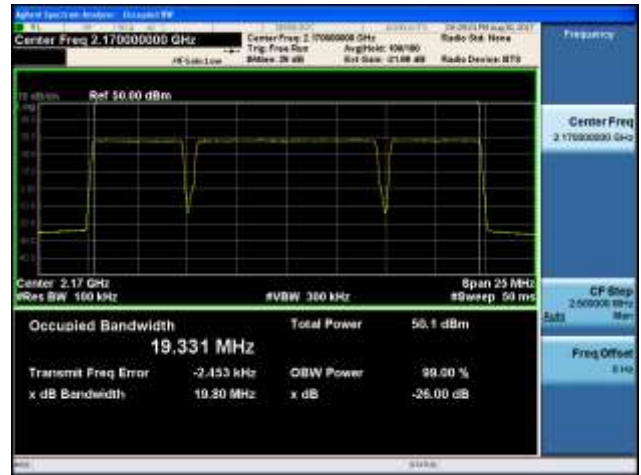
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64QAM



256QAM



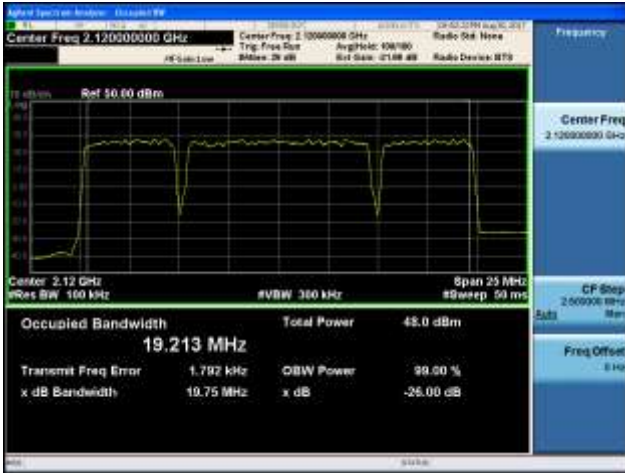


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 Yongin-si, Gyeonggi-do, Korea  
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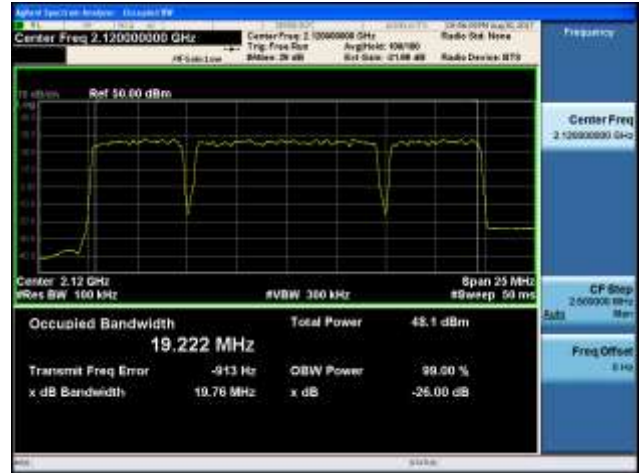
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Contiguous), 4TX, Bottom**

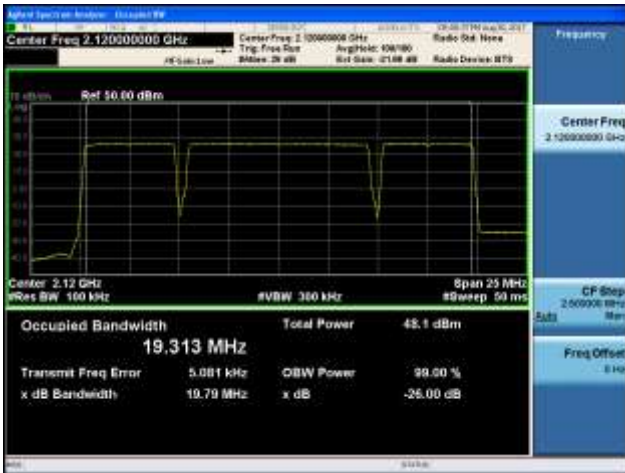
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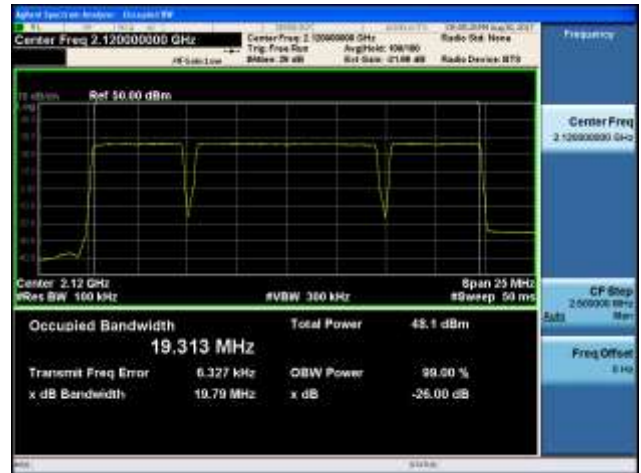
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64QAM



256QAM



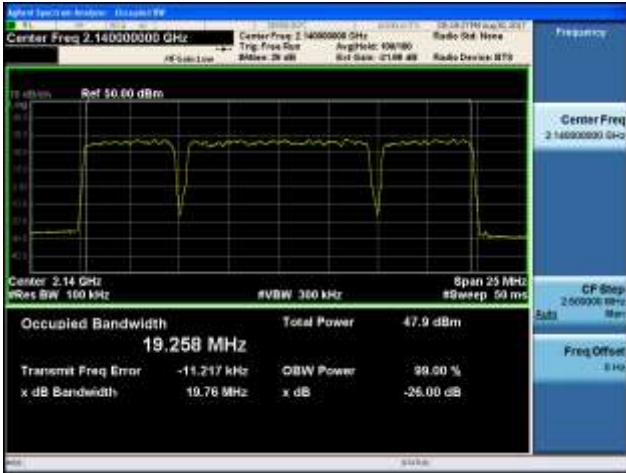


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 Yongin-si, Gyeonggi-do, Korea  
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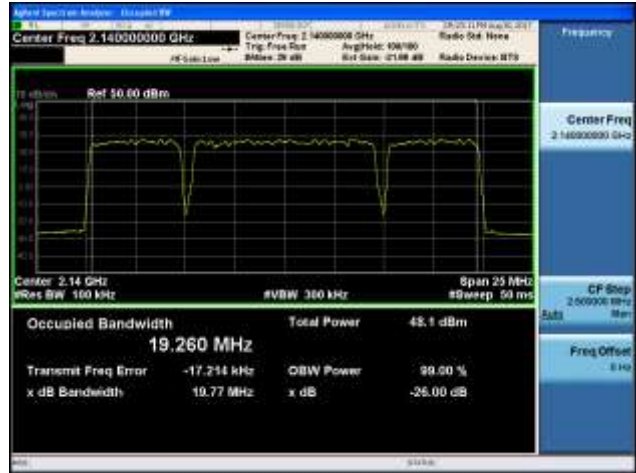
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Contiguous), 4TX, Middle**

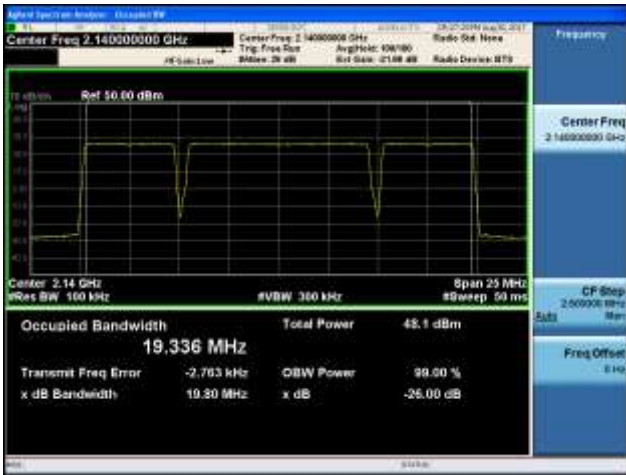
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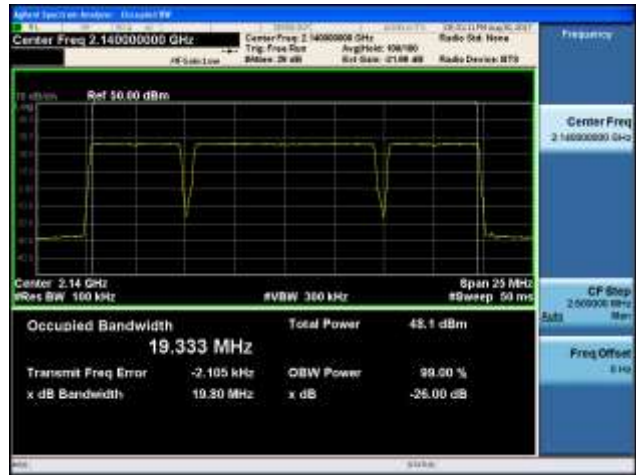
16QAM



64QAM



256QAM





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 Tel: +82-31-339-9970  
 Fax: +82-31-624-9501

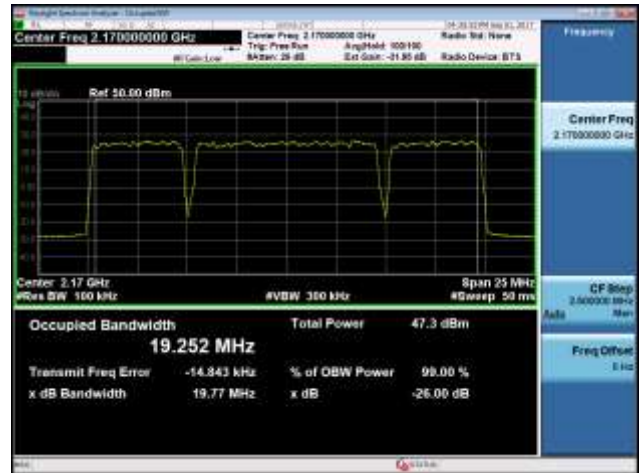
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**Band 66, BW 5MHz + BW 10MHz + BW 5MHz, Multi 3 carrier(Contiguous), 4TX, Top**

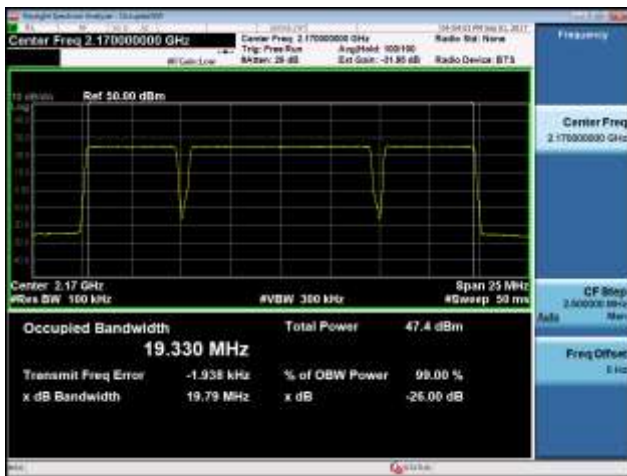
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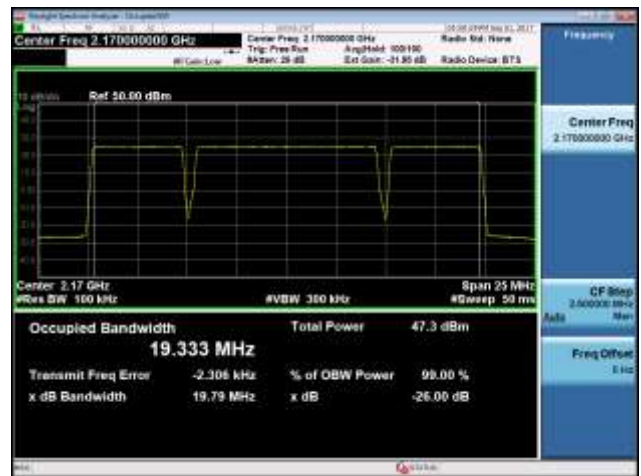
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64QAM



256QAM



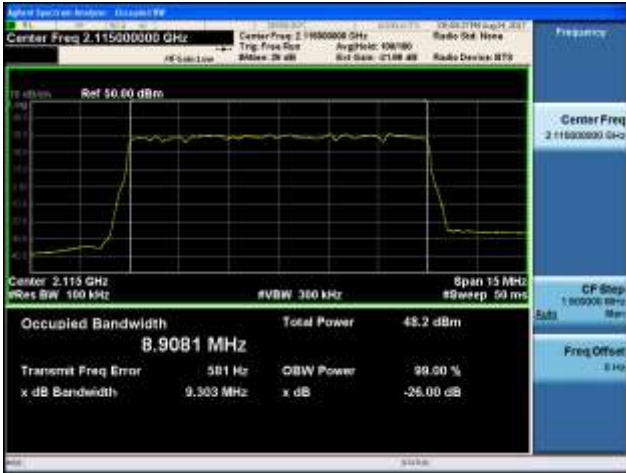


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 Yongin-si, Gyeonggi-do, Korea  
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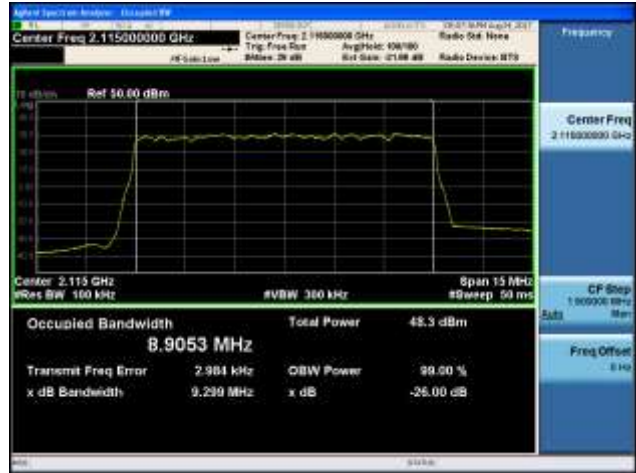
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**Band 66, BW 10MHz + BW 5MHz, Multi 2 carrier(Non-Contiguous), 2TX, Bottom**

QPSK



16QAM



64QAM



256QAM





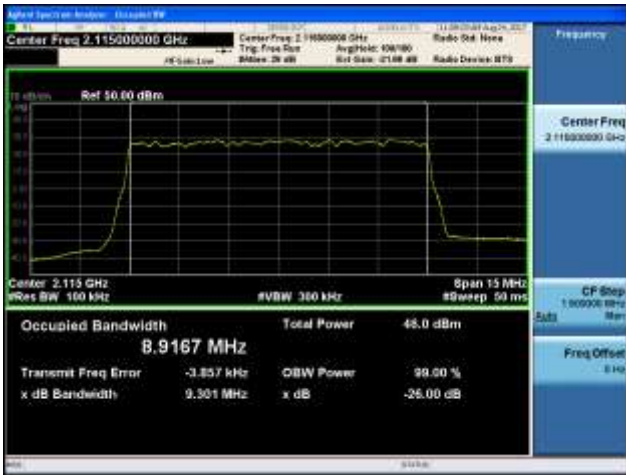


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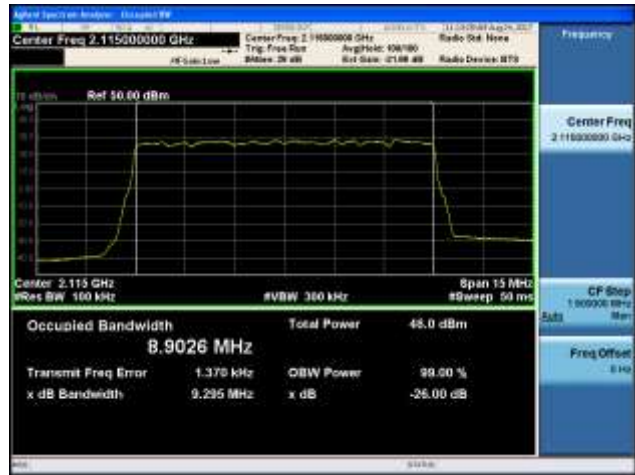
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**Band 66, BW 10MHz + BW 5MHz, Multi 2 carrier(Non-Contiguous), 4TX, Bottom**

QPSK



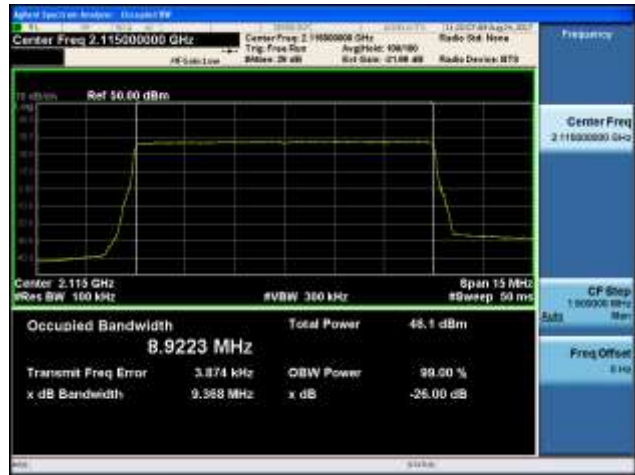
16QAM



64QAM



256QAM



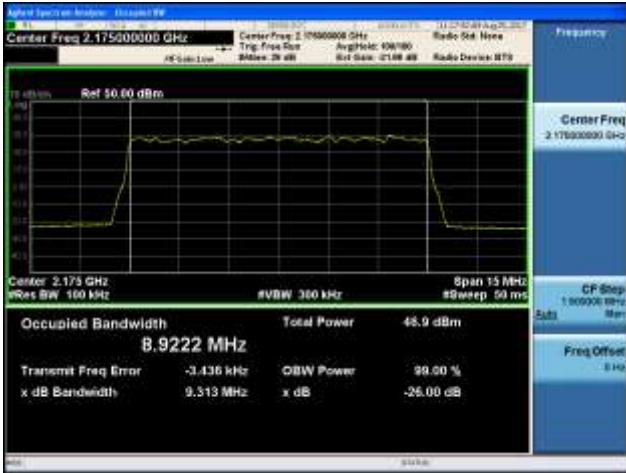




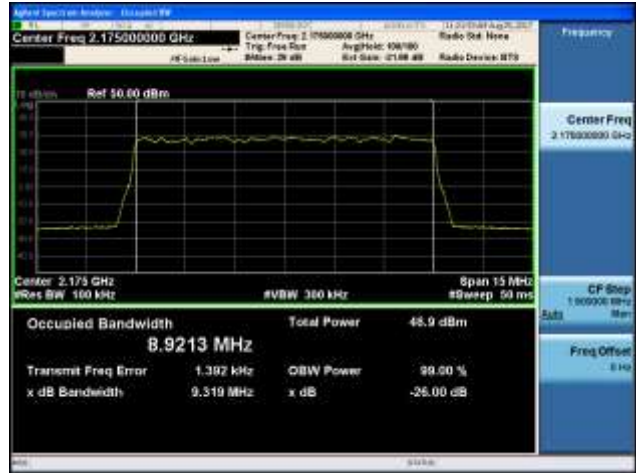


**Band 66, BW 10MHz + BW 10MHz, Multi 2 carrier(Non-Contiguous), 2TX, Top**

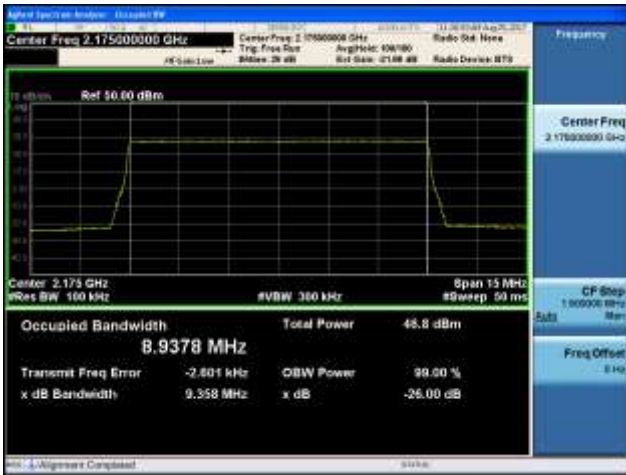
QPSK



16QAM



64QAM



256QAM

