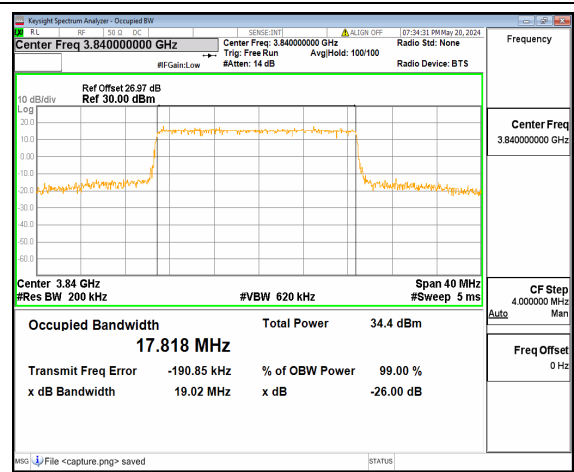
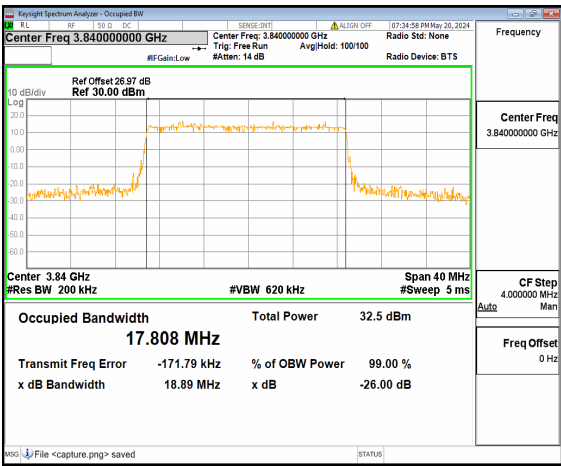


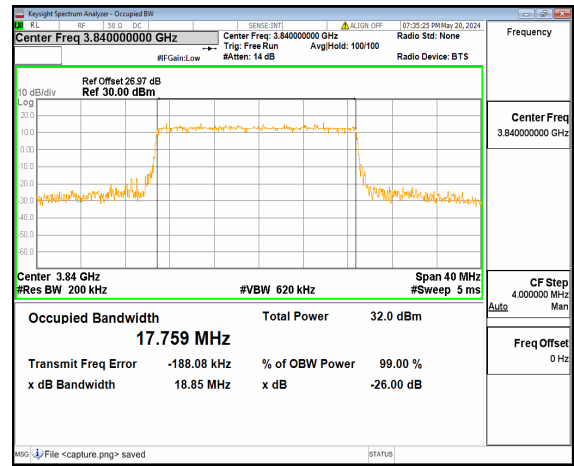
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Outer\_Full Mid



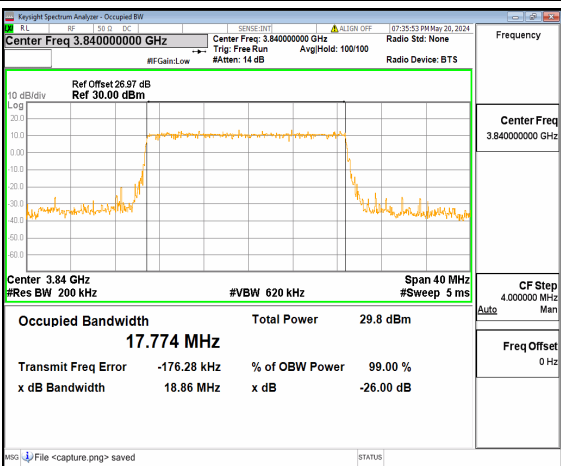
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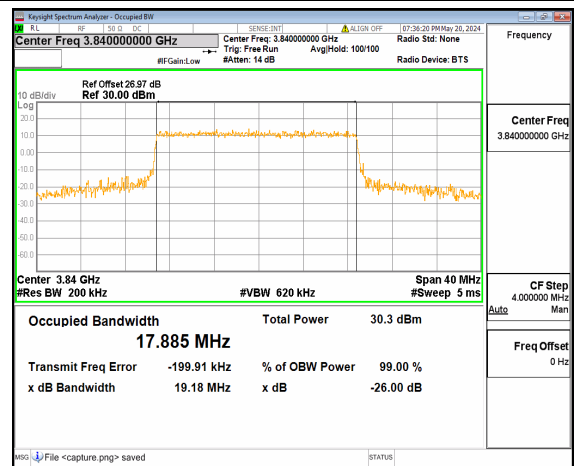
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Outer\_Full Mid



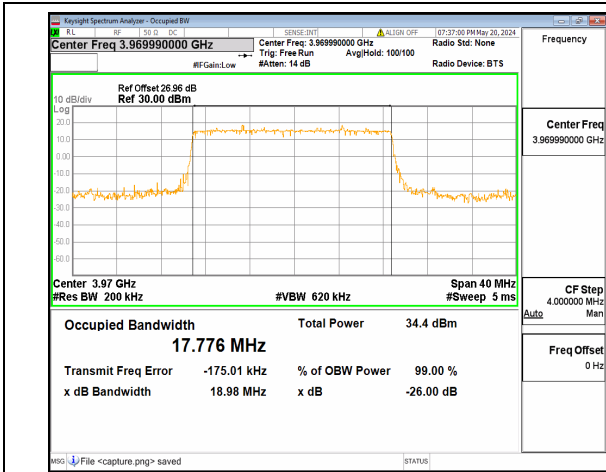
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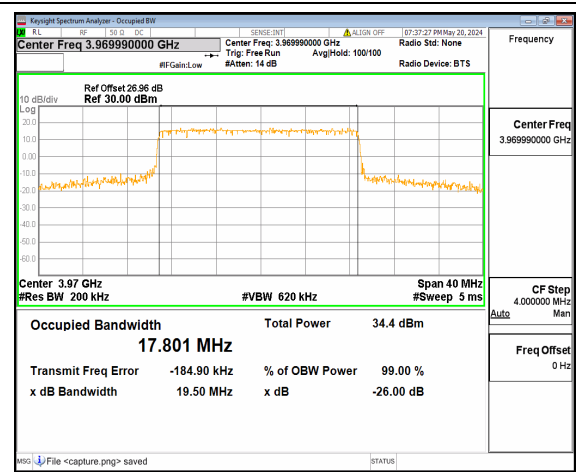
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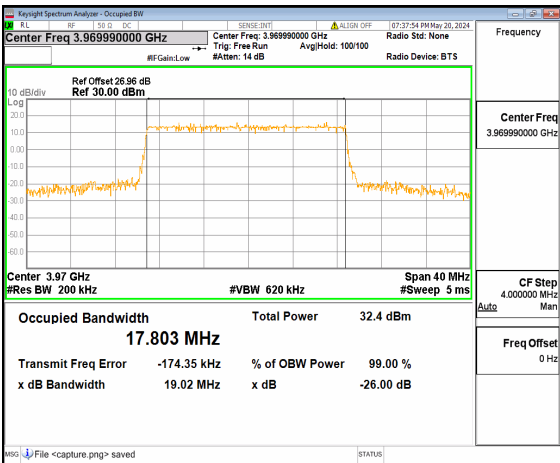
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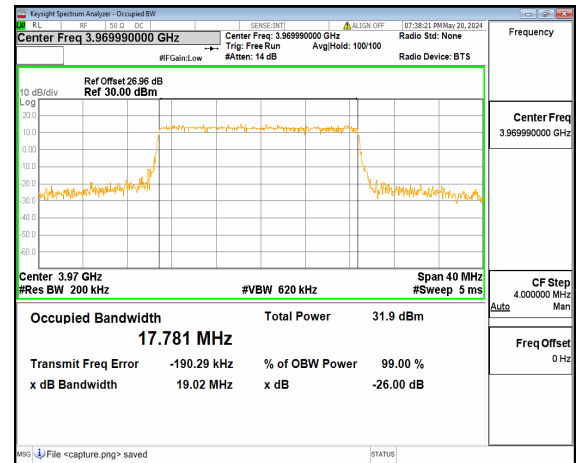
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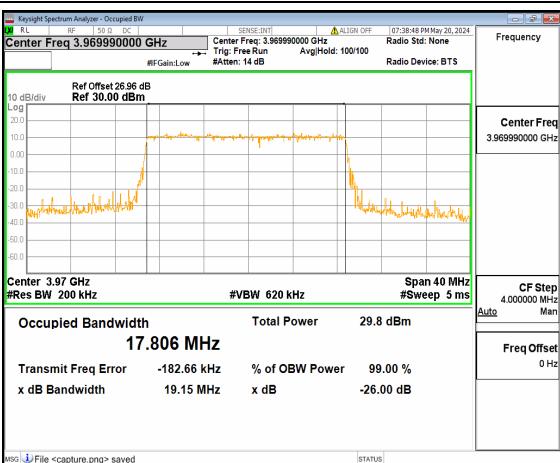
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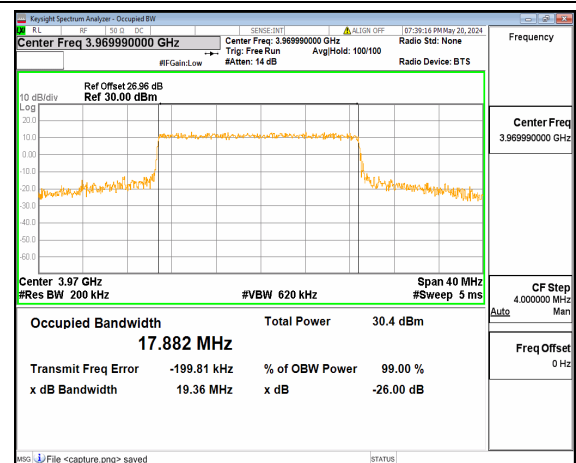
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16QAM Outer\_Full High



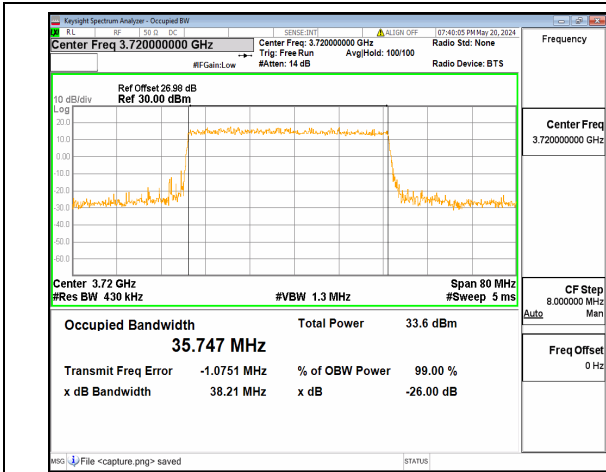
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64QAM Outer\_Full High



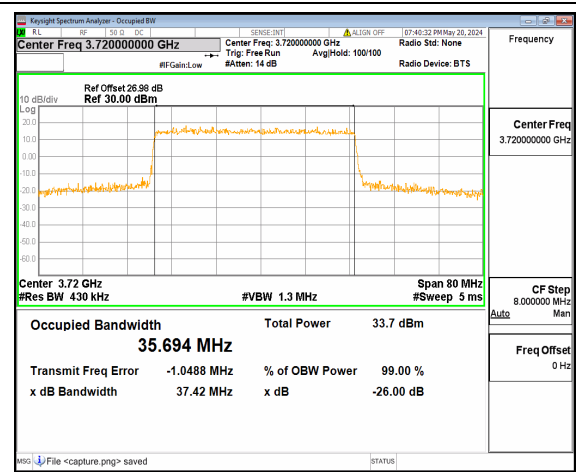
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256QAM Outer\_Full High



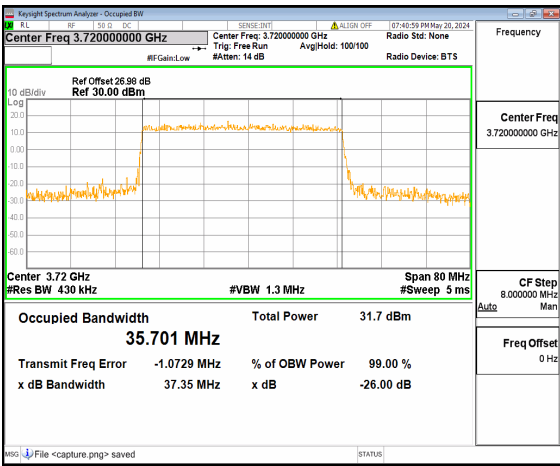
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Outer\_Full High



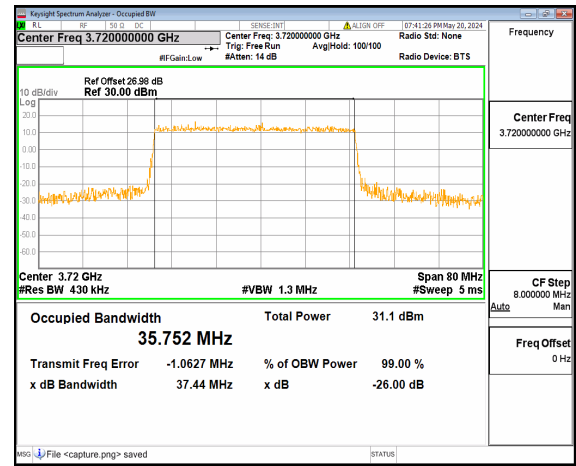
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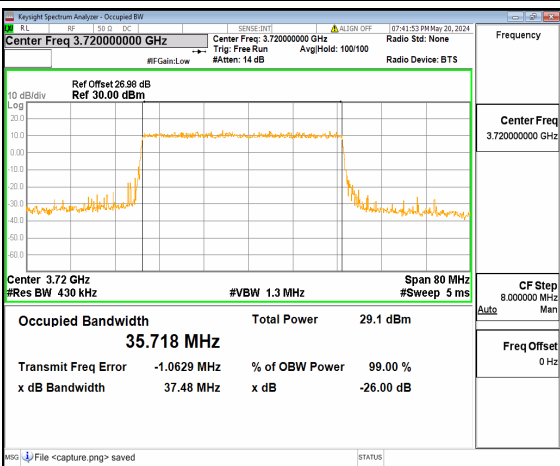
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Outer\_Full Low



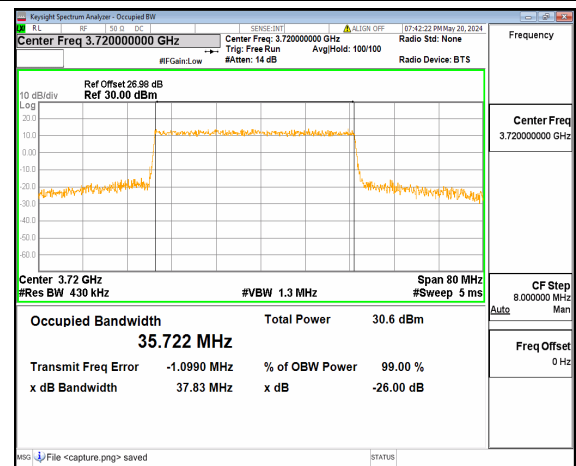
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16QAM Outer\_Full Low



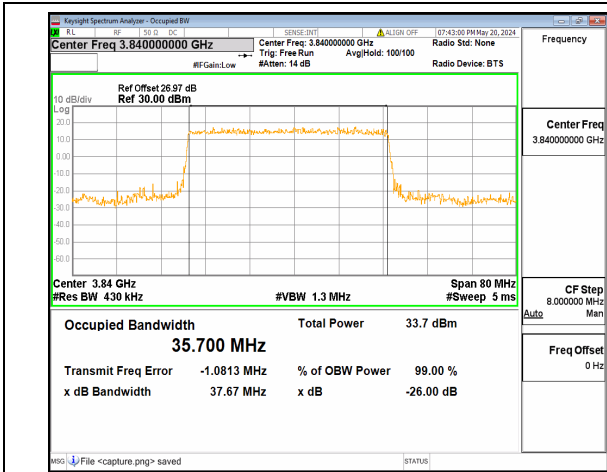
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64QAM Outer\_Full Low



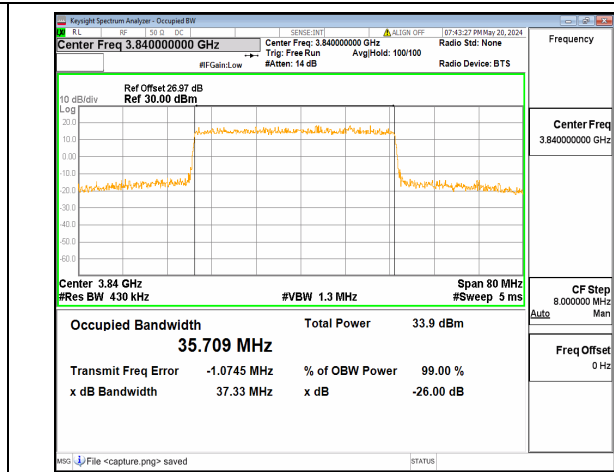
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256QAM Outer\_Full Low



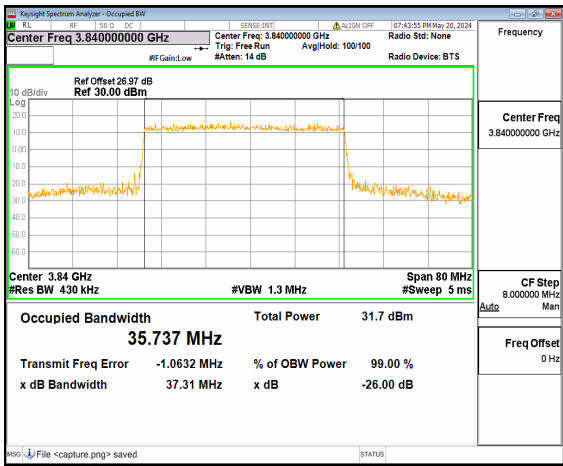
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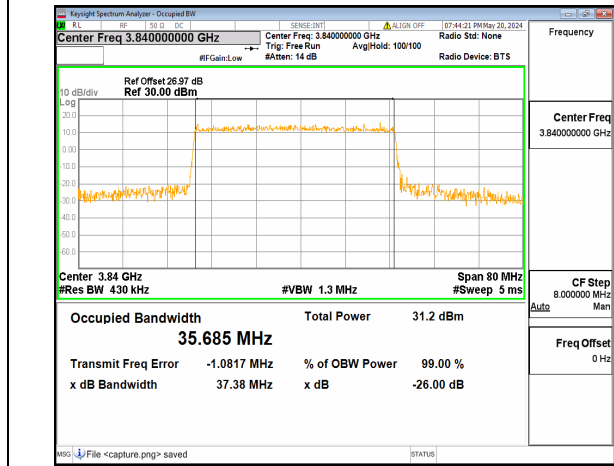
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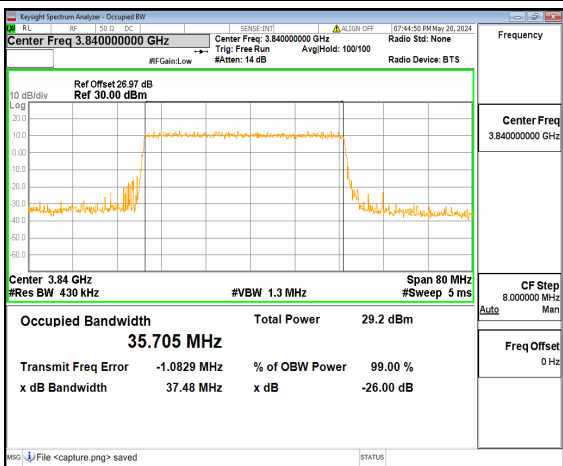
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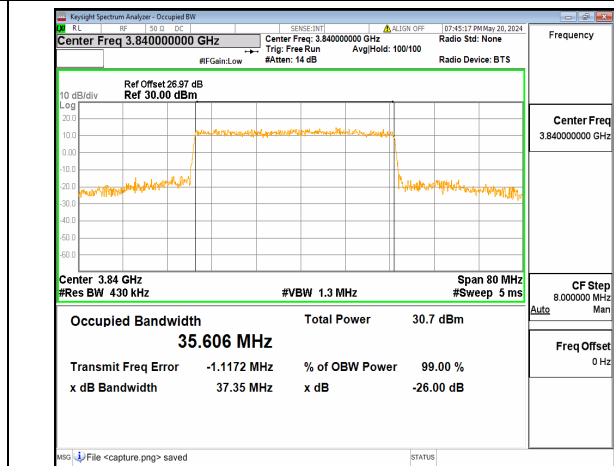
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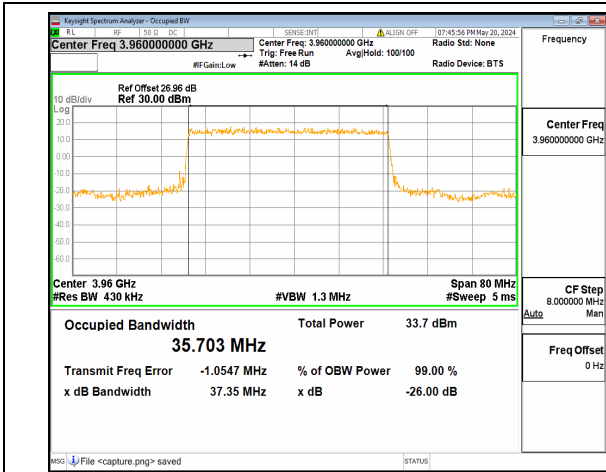
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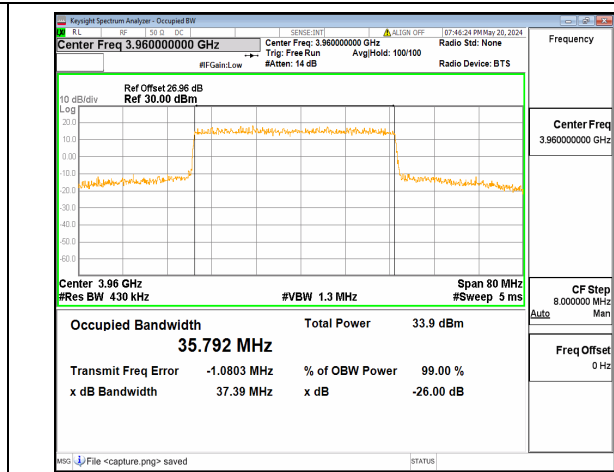
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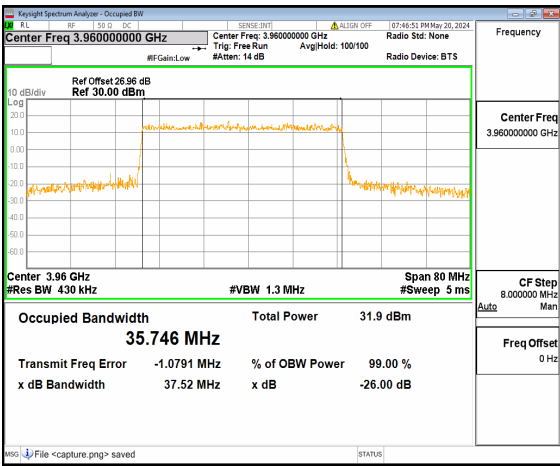
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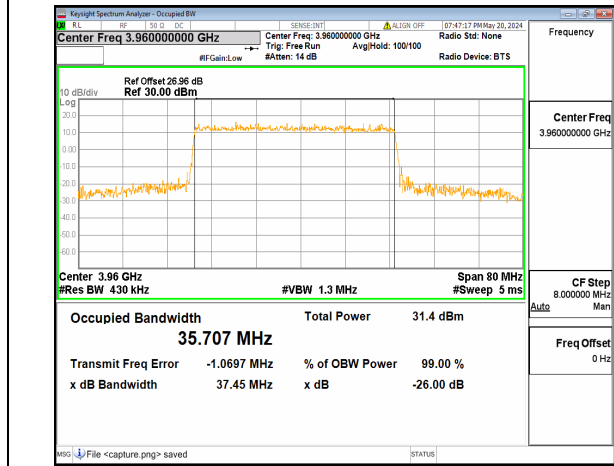
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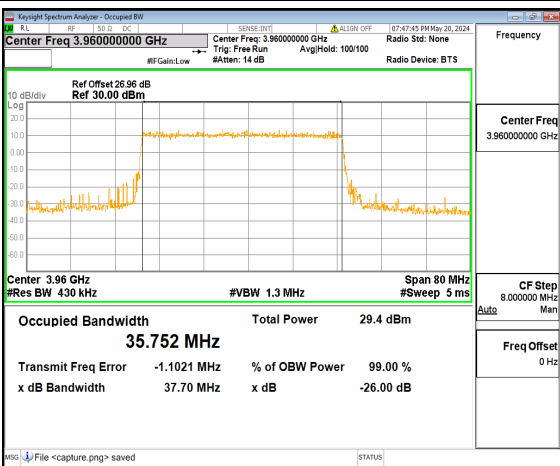
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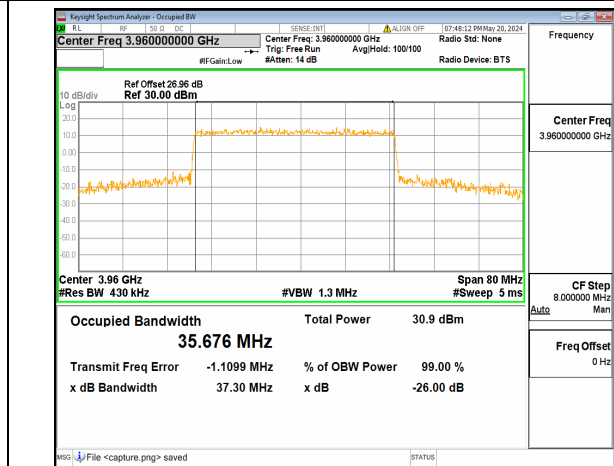
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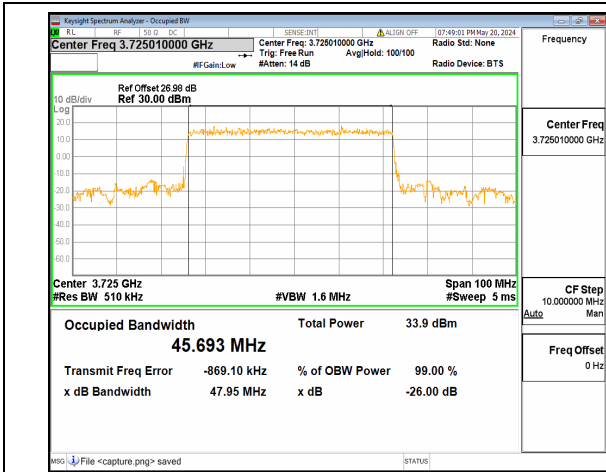
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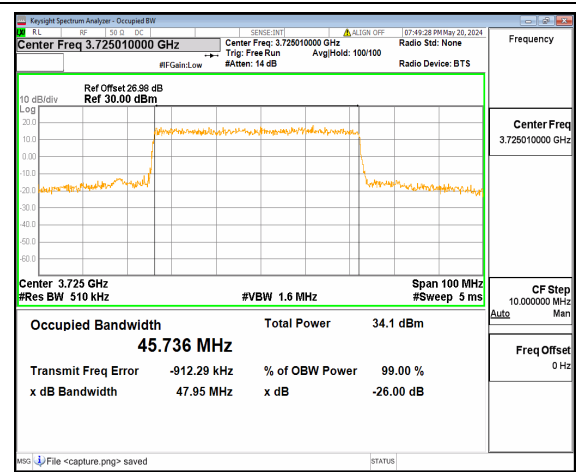
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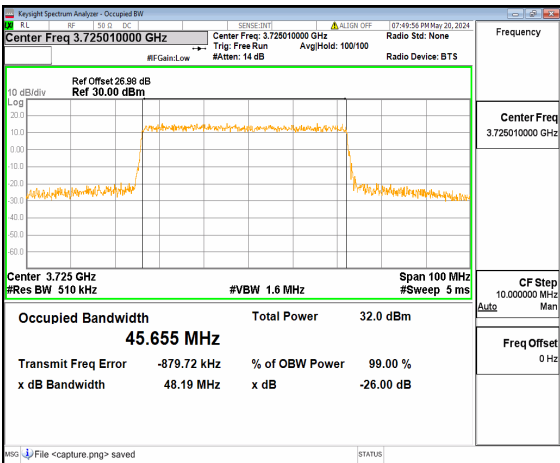
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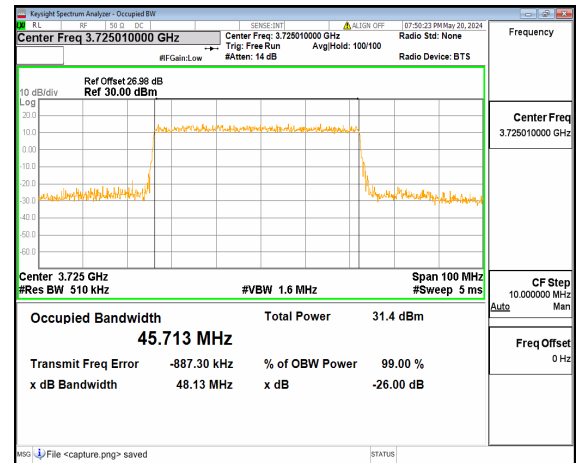
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Outer\_Full Low



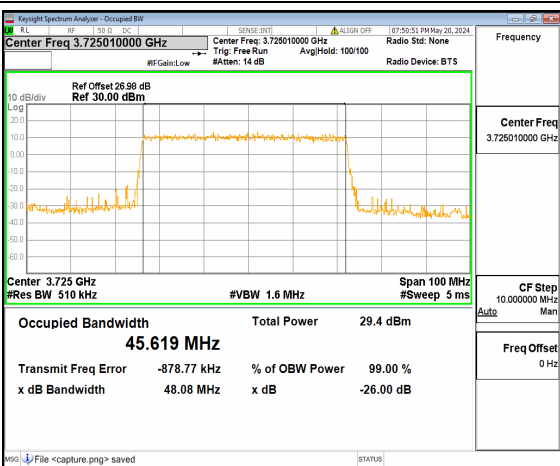
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Outer\_Full Low



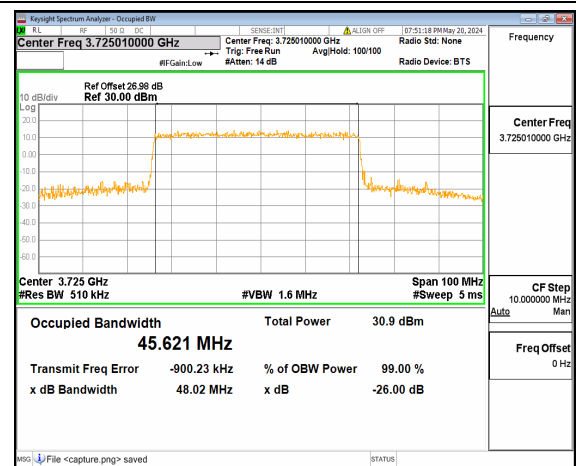
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16QAM Outer\_Full Low



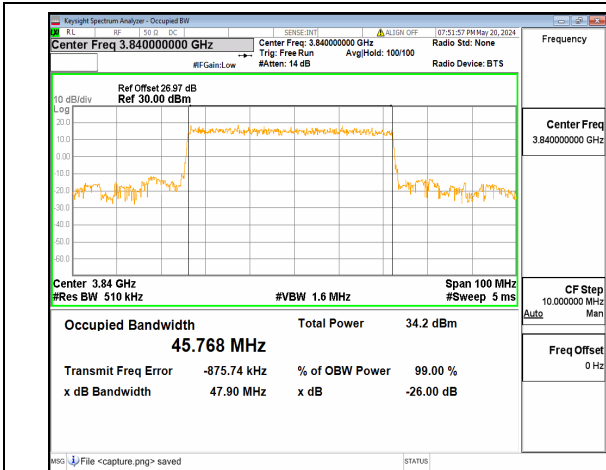
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64QAM Outer\_Full Low



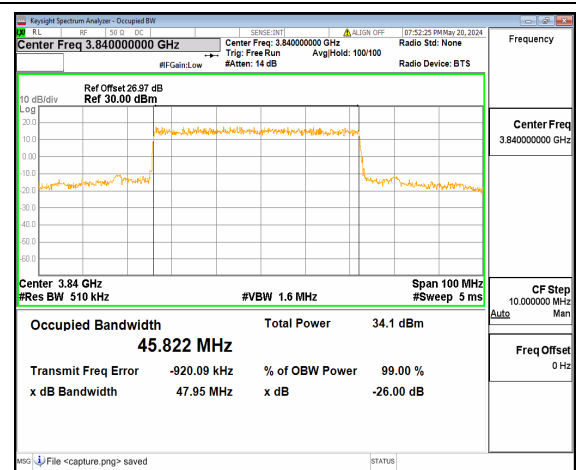
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256QAM Outer\_Full Low



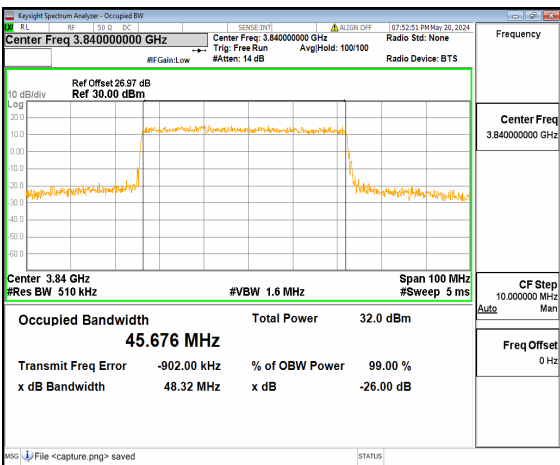
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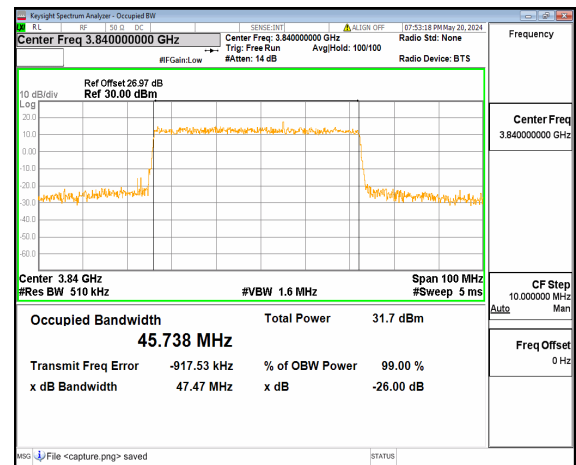
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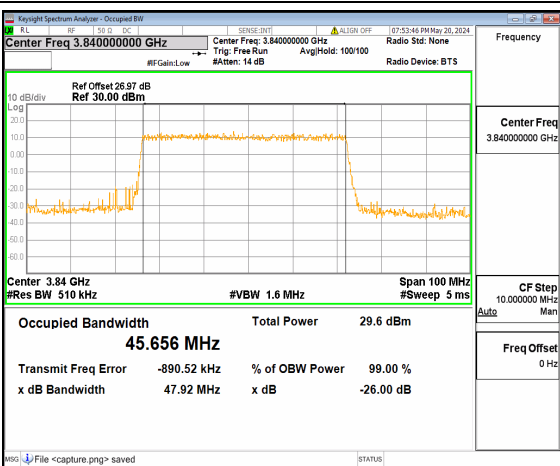
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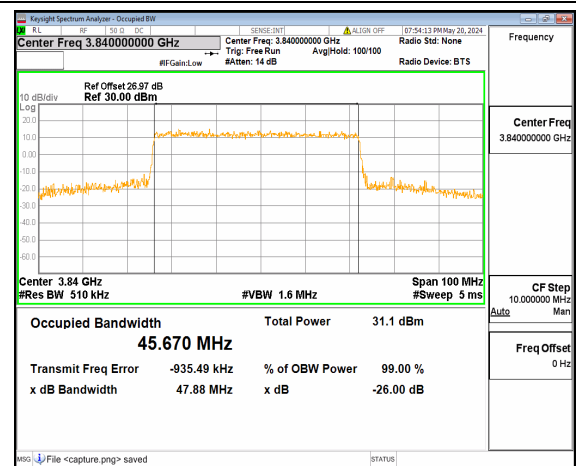
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16QAM Outer\_Full Mid



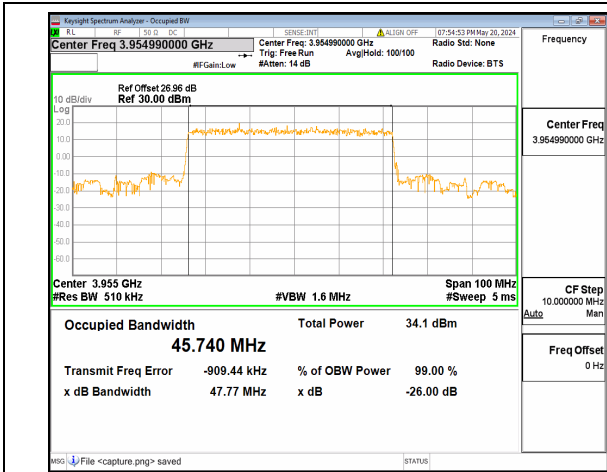
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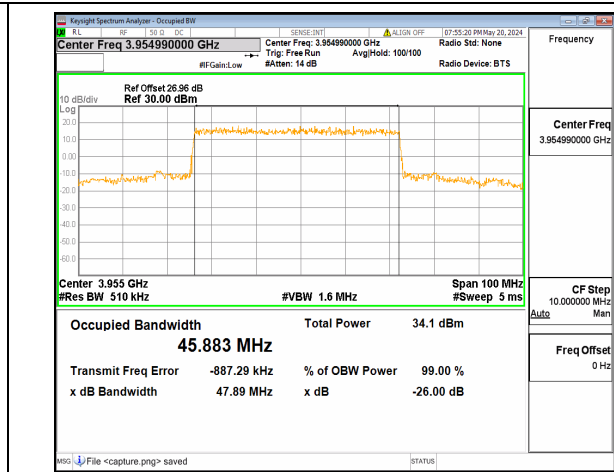
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256QAM Outer\_Full Mid



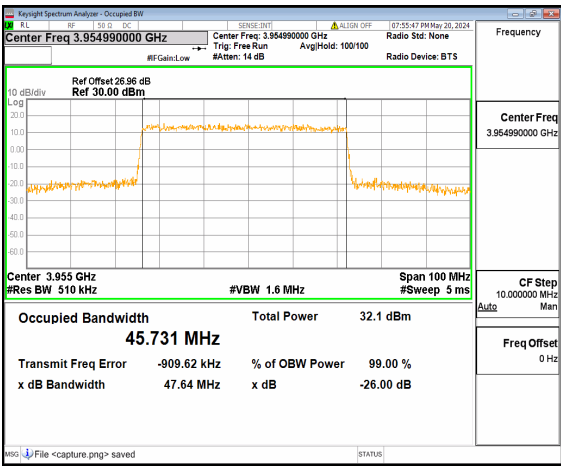
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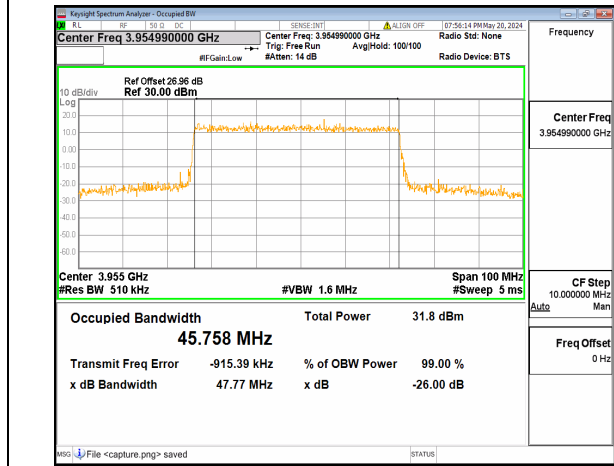
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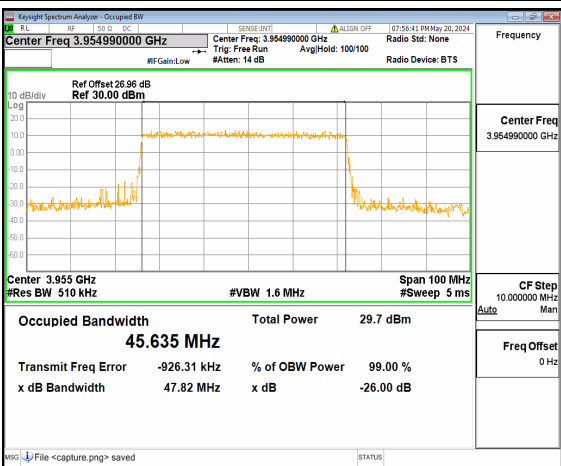
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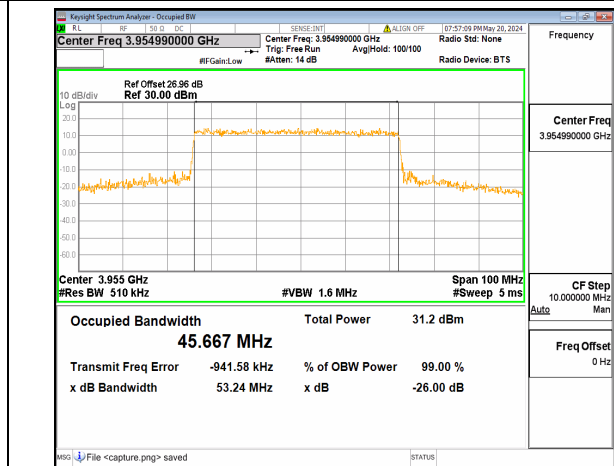
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16QAM Outer\_Full High



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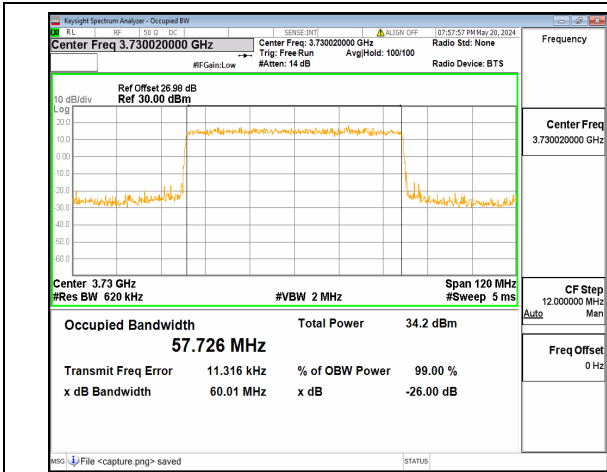


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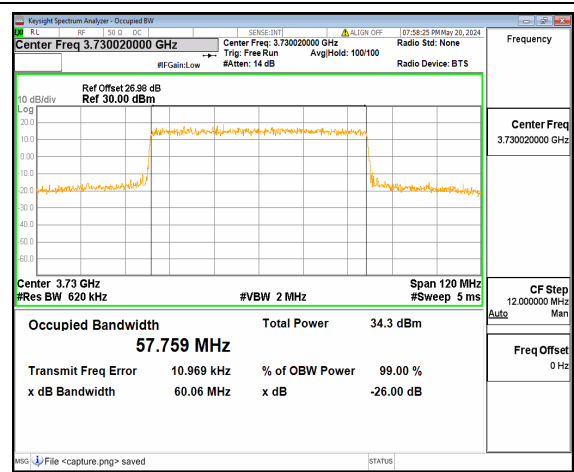


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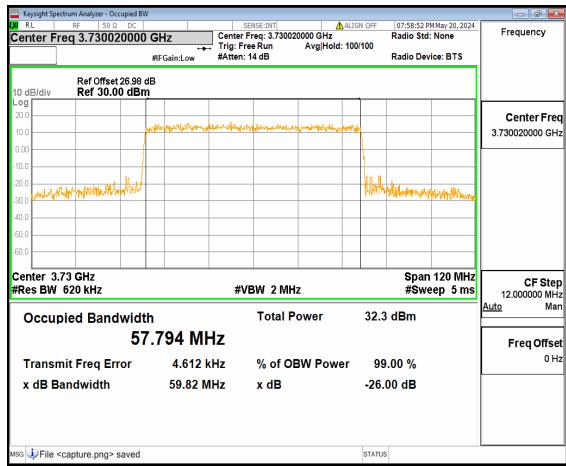




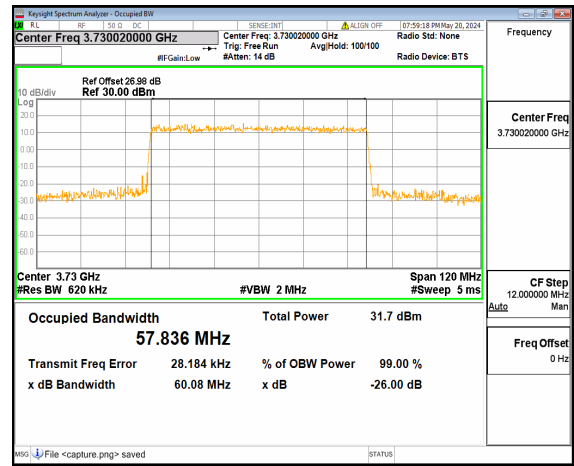
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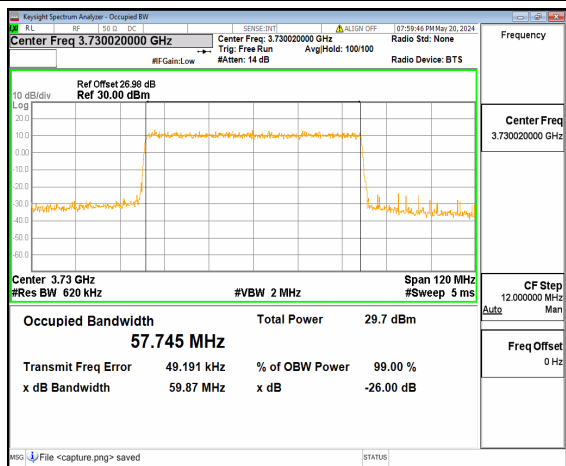
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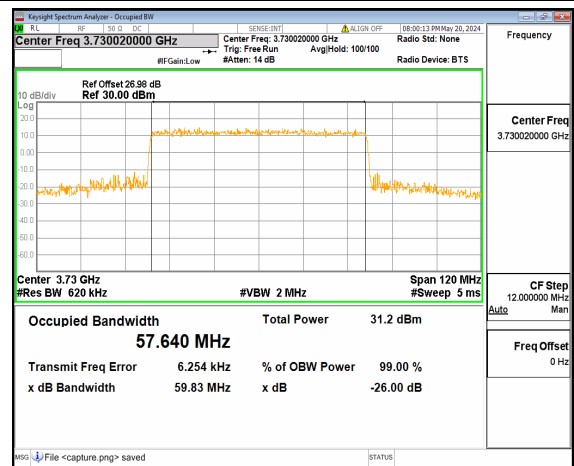
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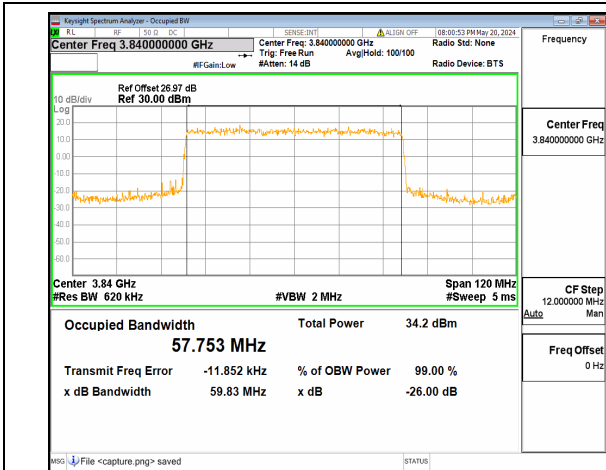
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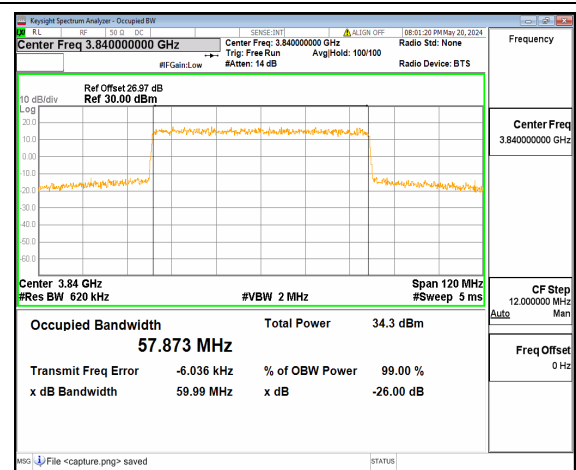
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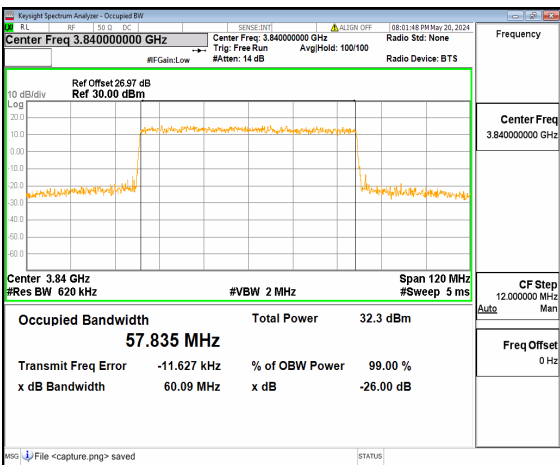
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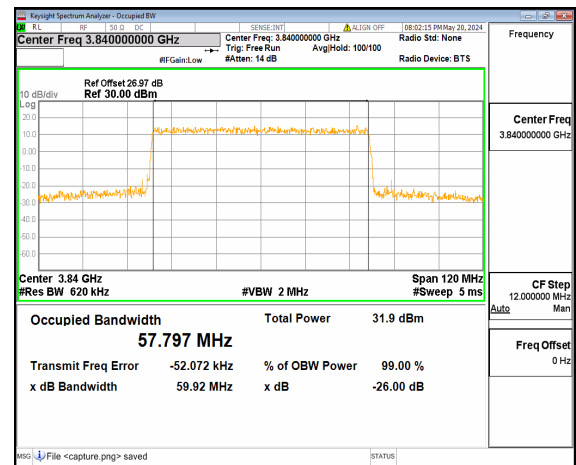
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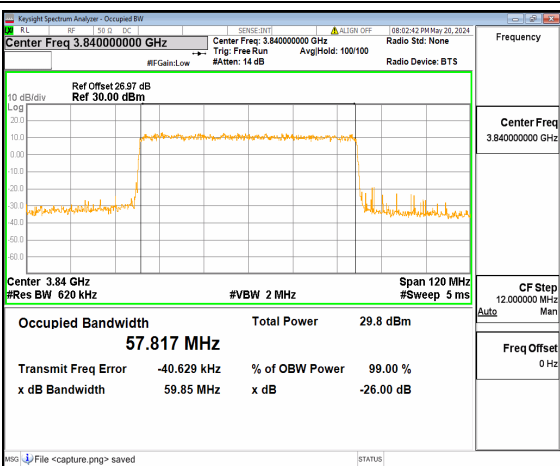
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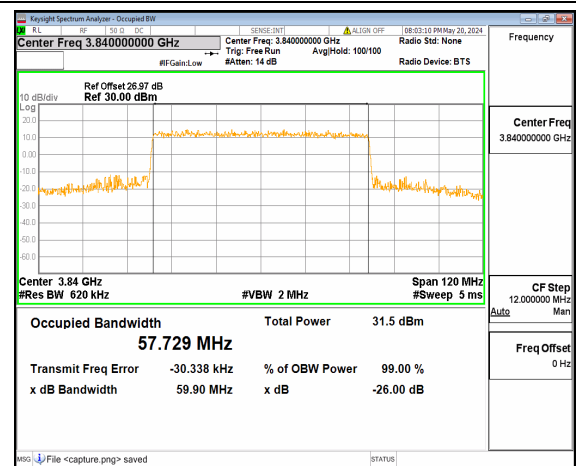
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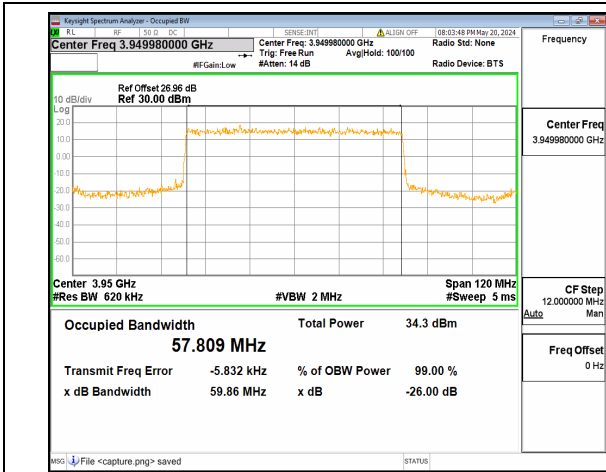
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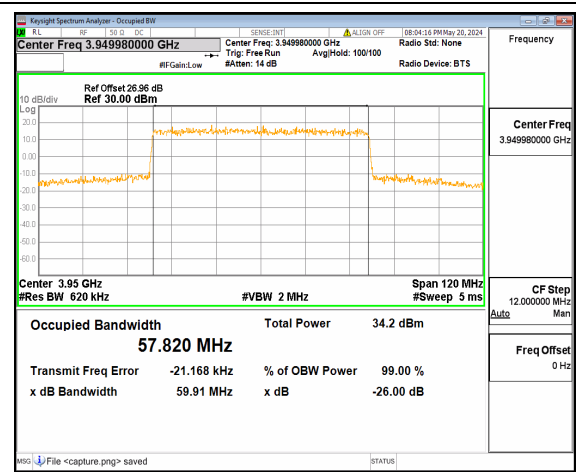
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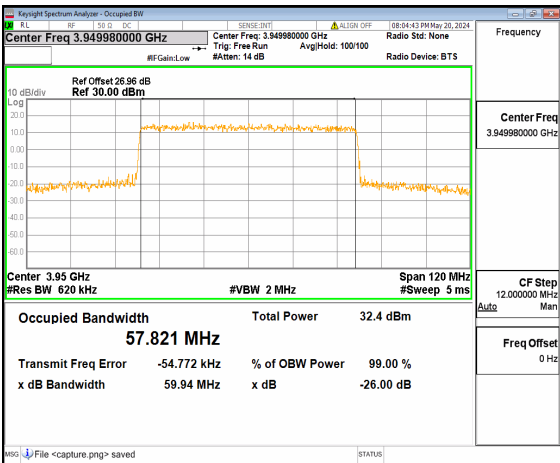
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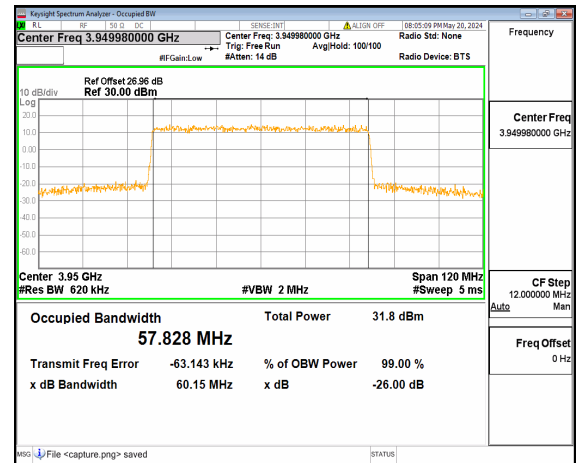
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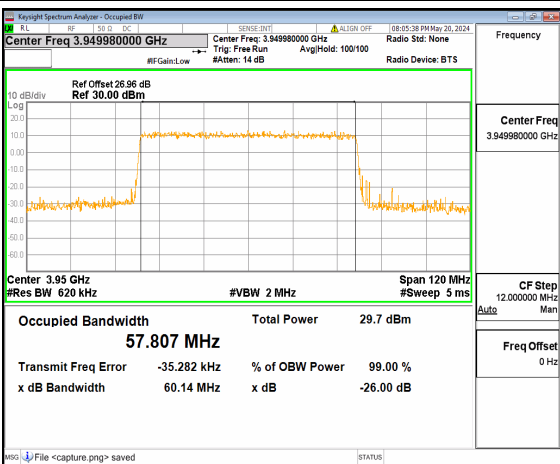
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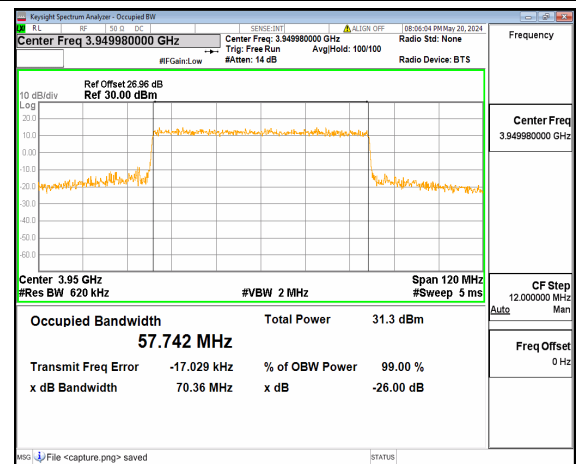
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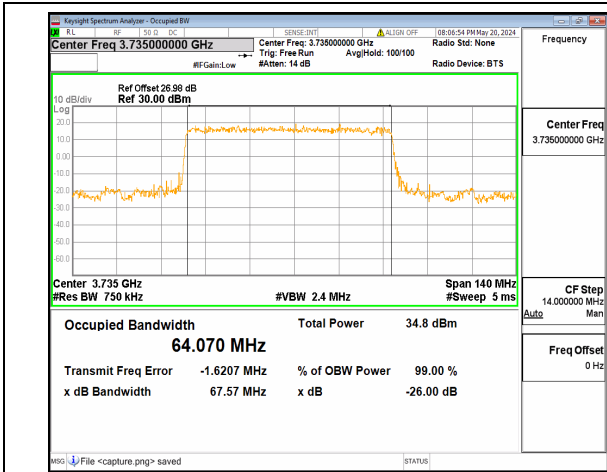
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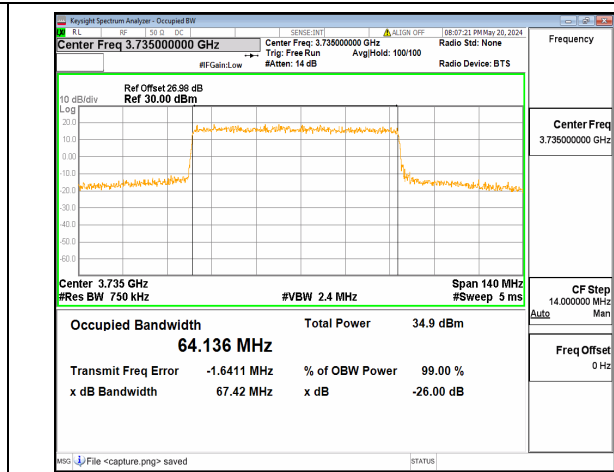
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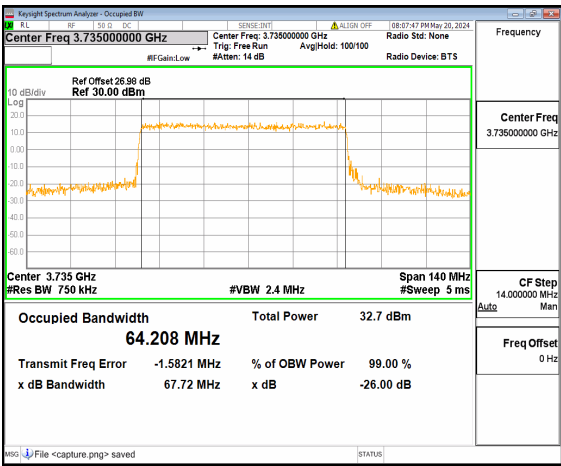
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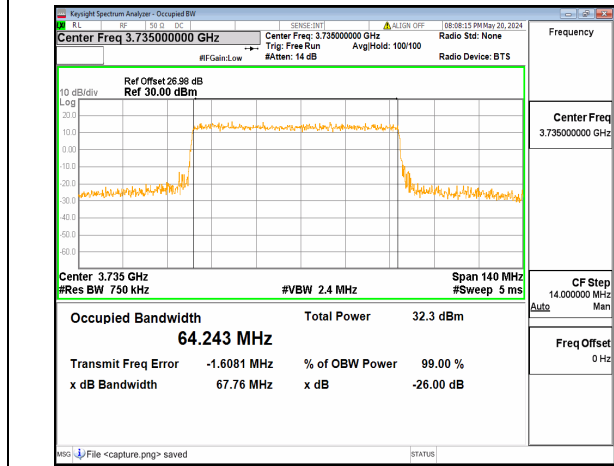
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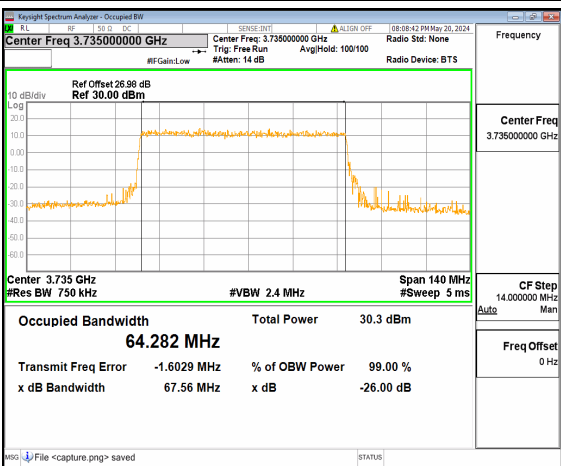
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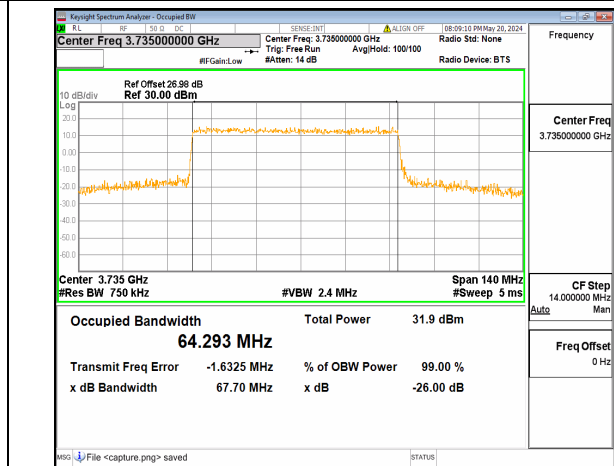
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16QAM Outer\_Full Low



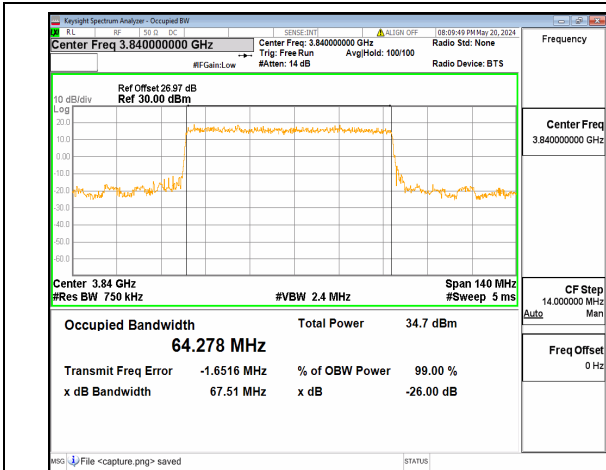
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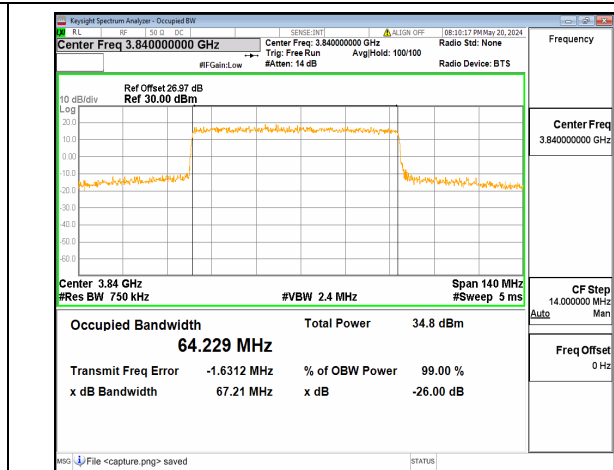
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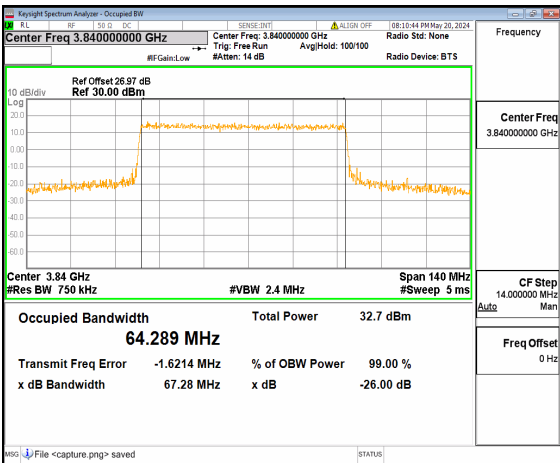
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Outer\_Full Low



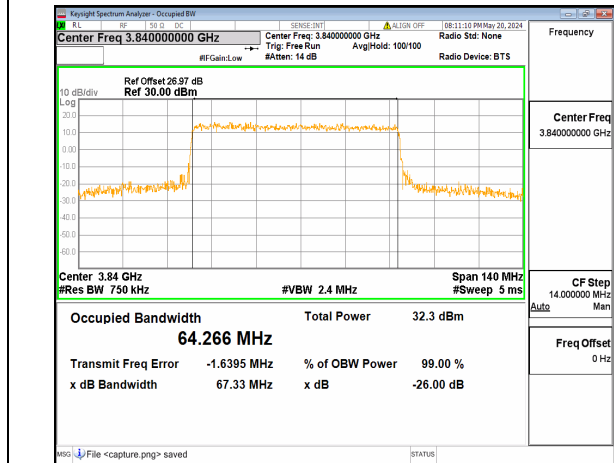
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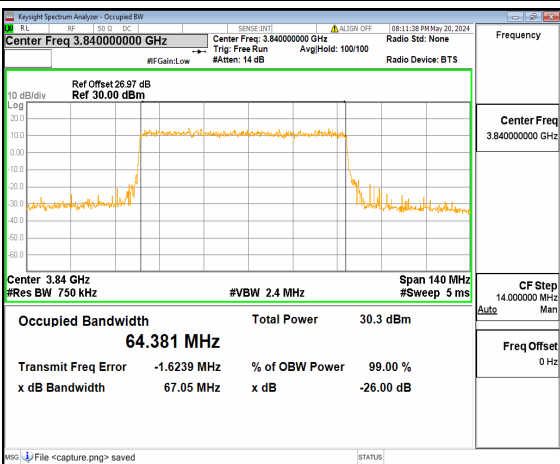
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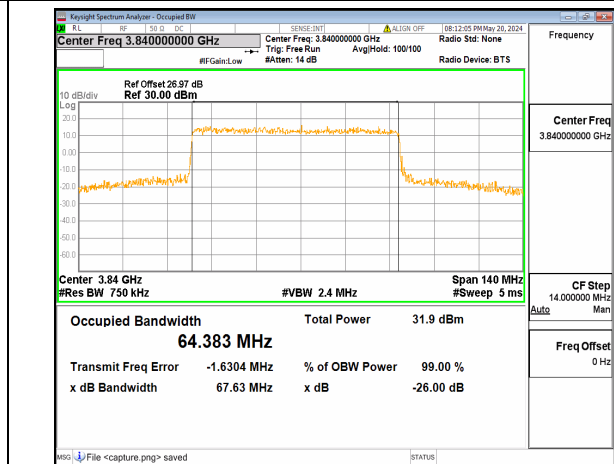
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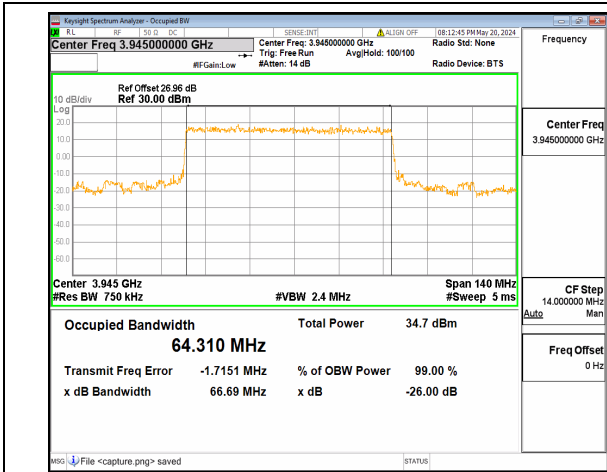
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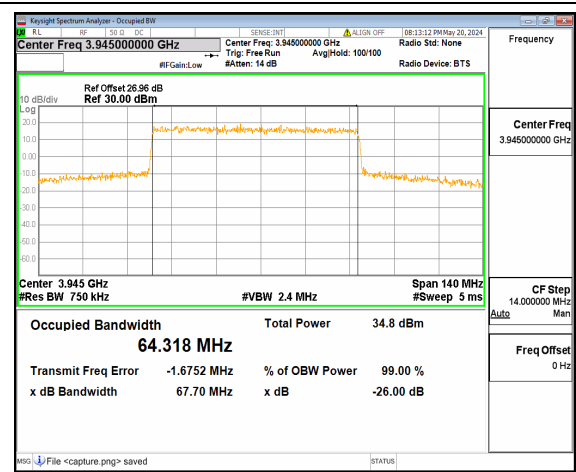
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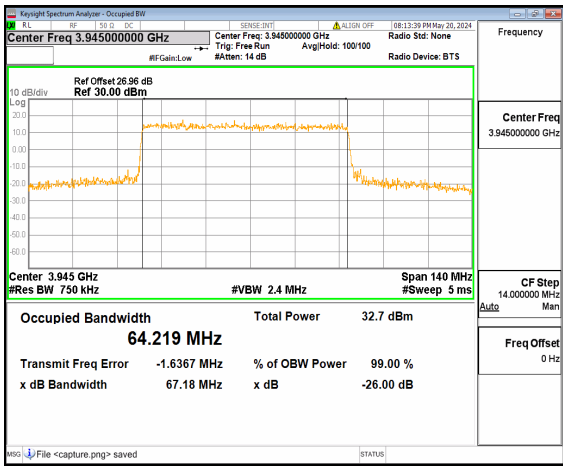
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Outer\_Full Mid



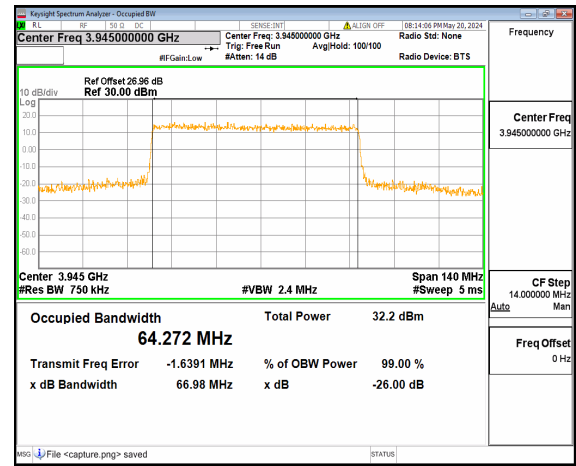
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Outer\_Full High



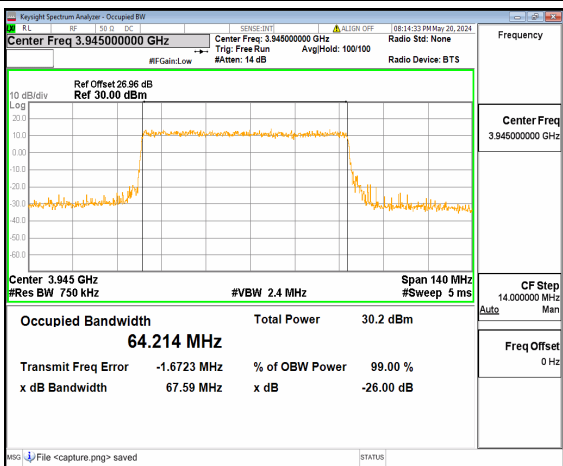
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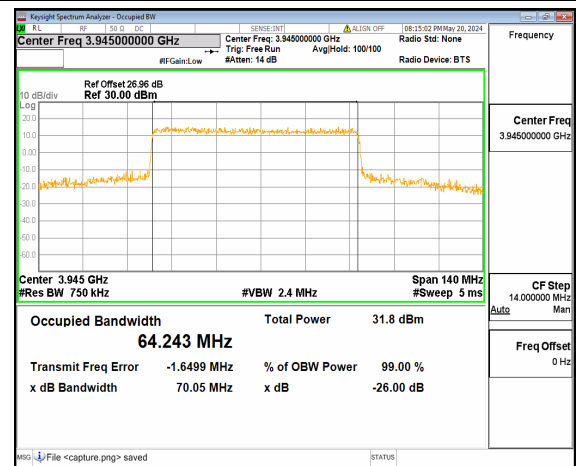
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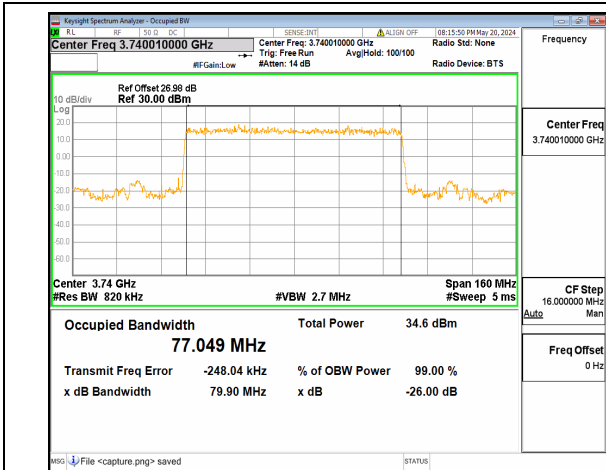
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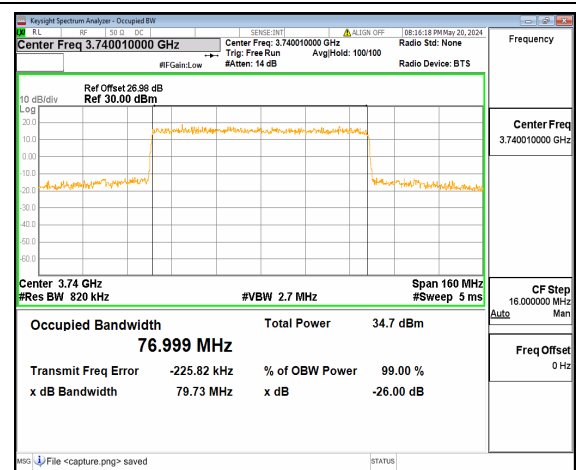
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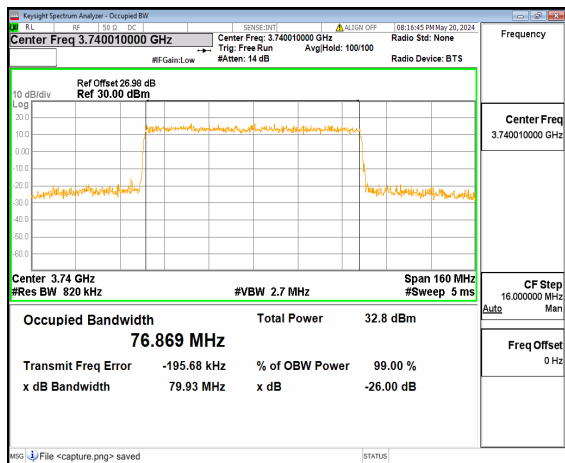
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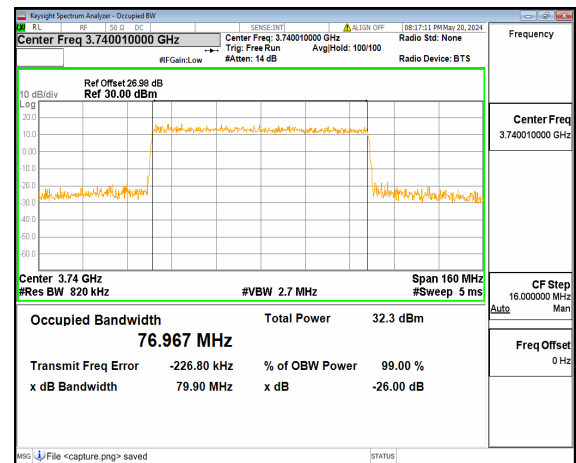
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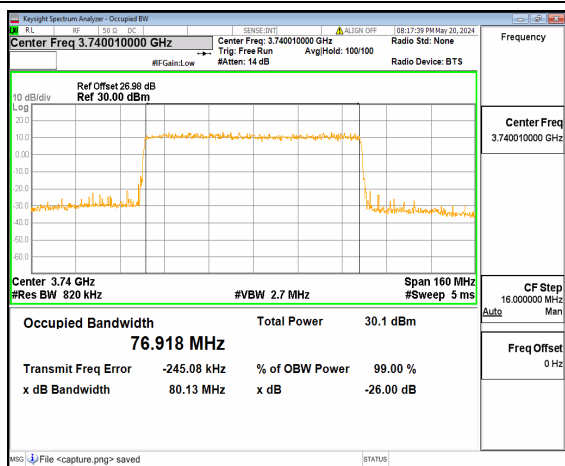
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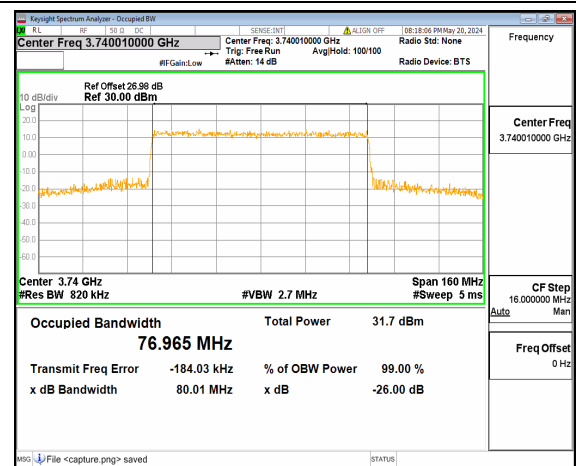
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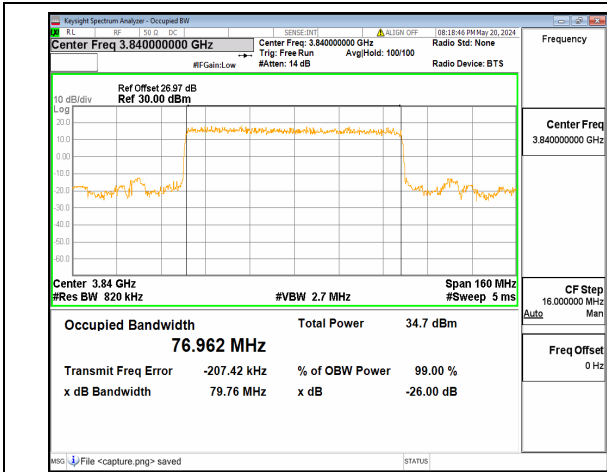
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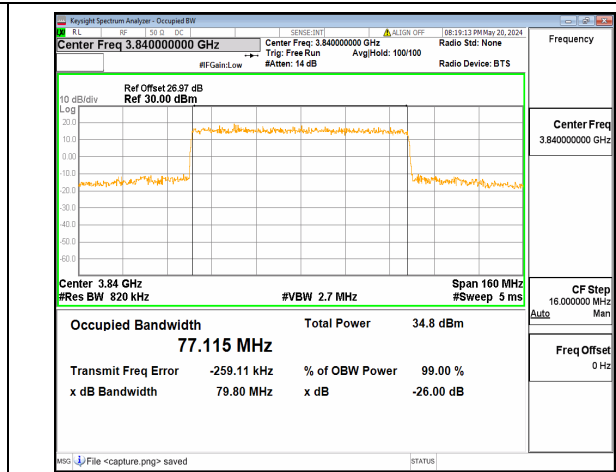
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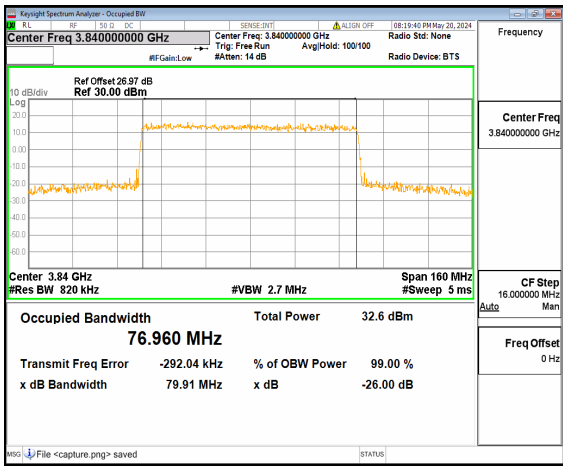
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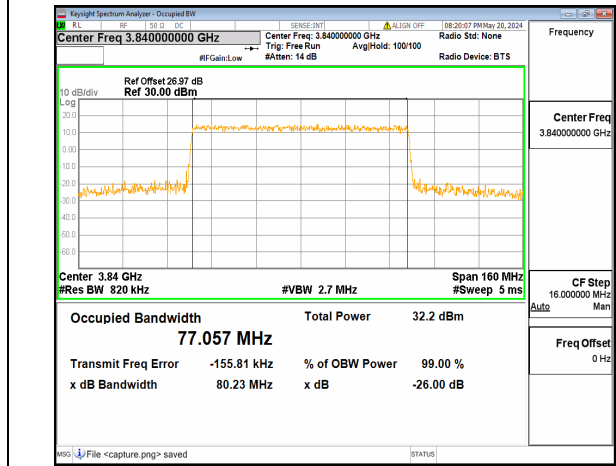
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Outer\_Full Mid



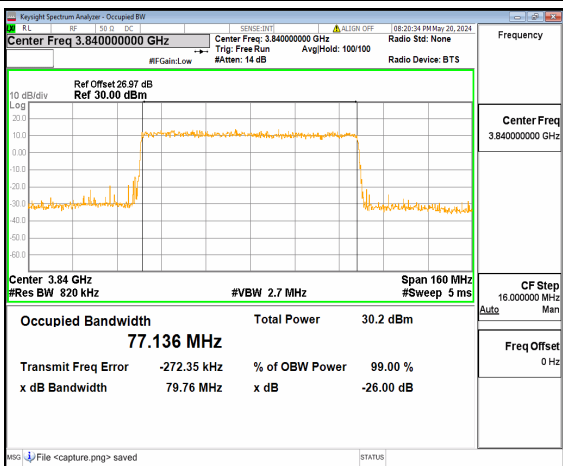
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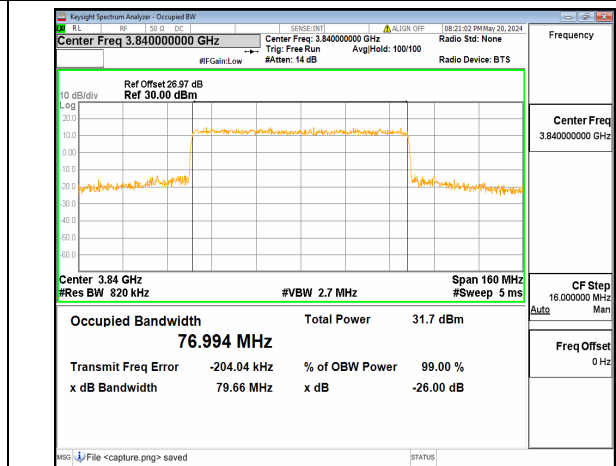
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16QAM Outer\_Full Mid



n77(3700-3980MHz) 80M DFT-s-OFDM  
64QAM Outer\_Full Mid

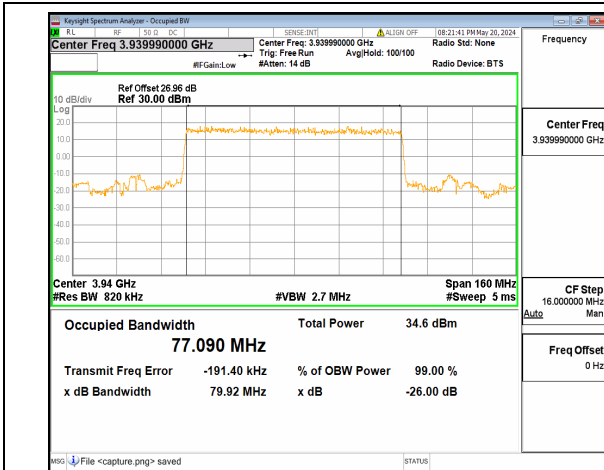


n77(3700-3980MHz) 80M DFT-s-OFDM  
256QAM Outer\_Full Mid

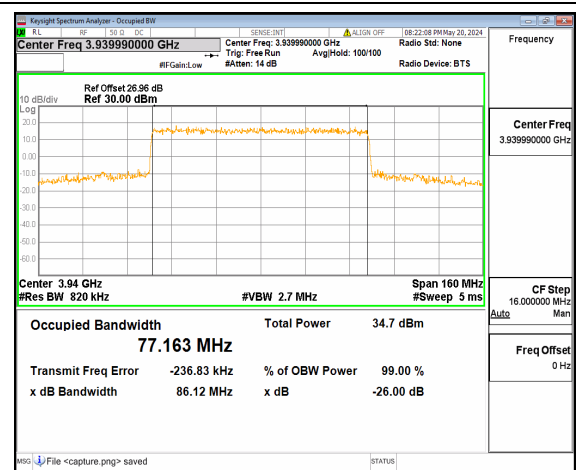


n77(3700-3980MHz) 80M CP-OFDM QPSK  
Outer\_Full Mid

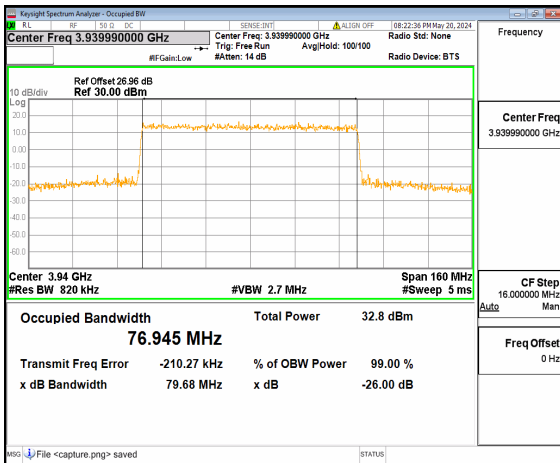




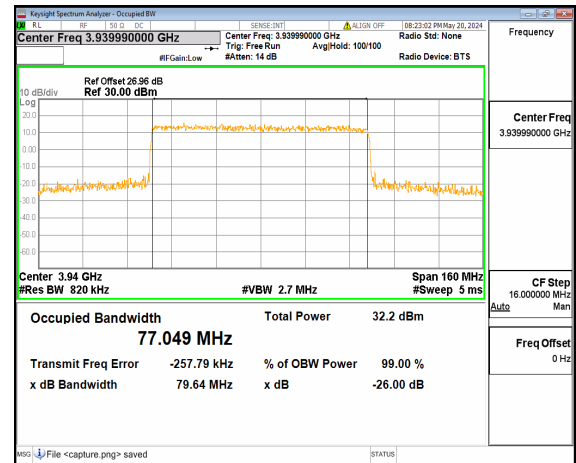
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Outer\_Full High



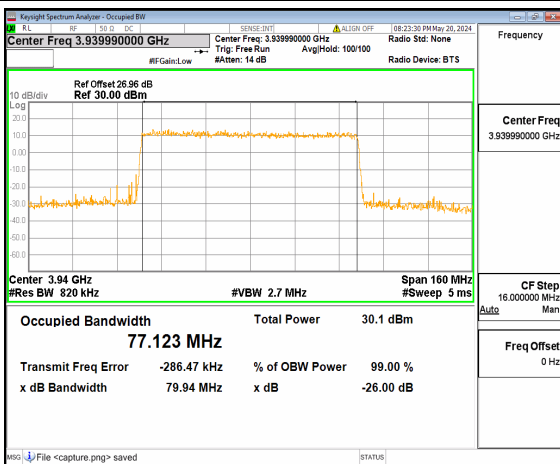
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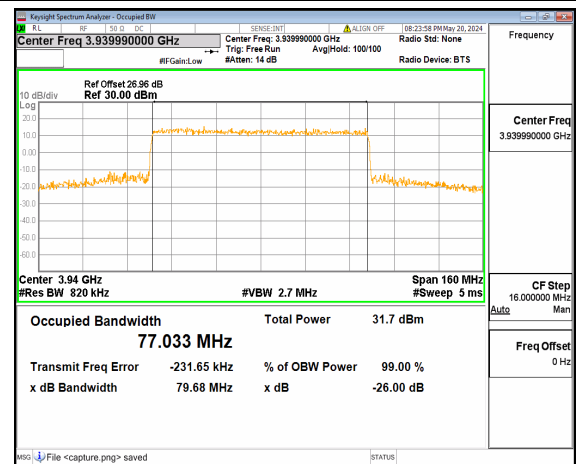
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16QAM Outer\_Full High



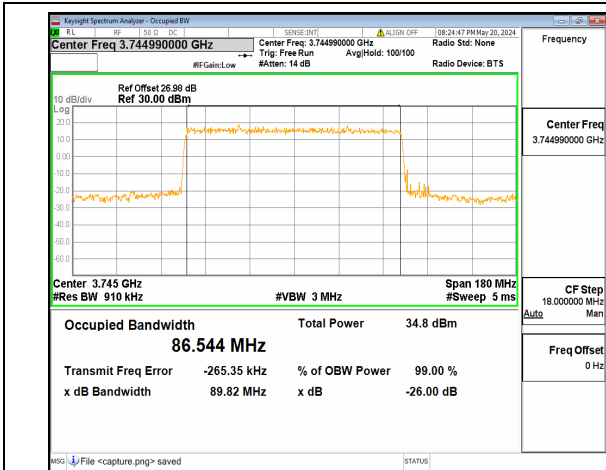
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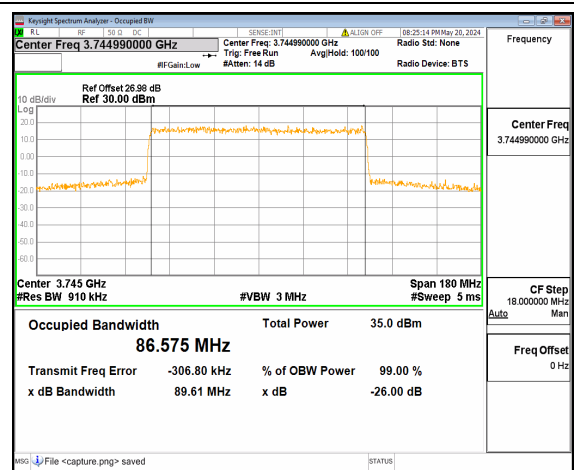
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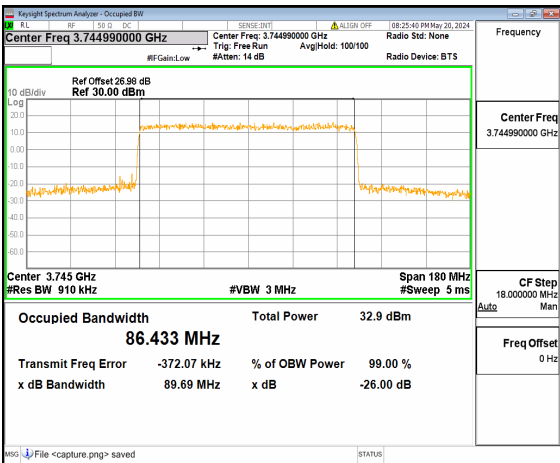
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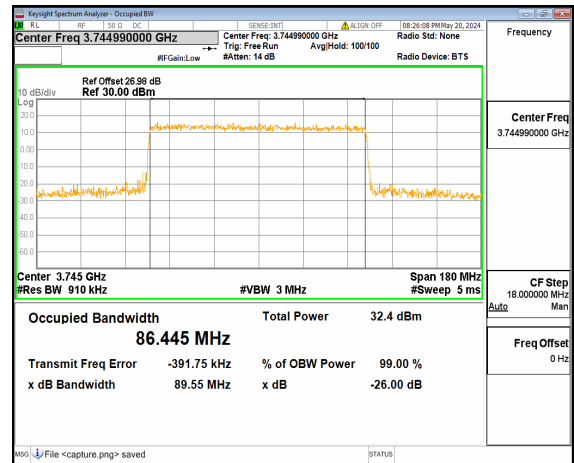
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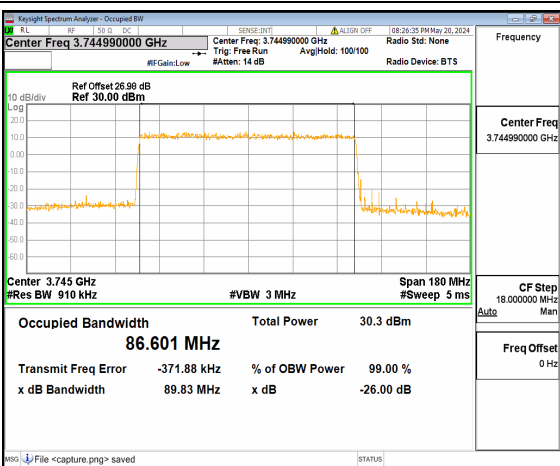
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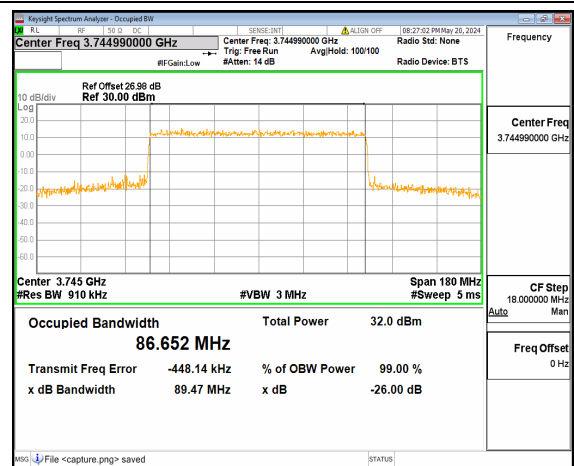
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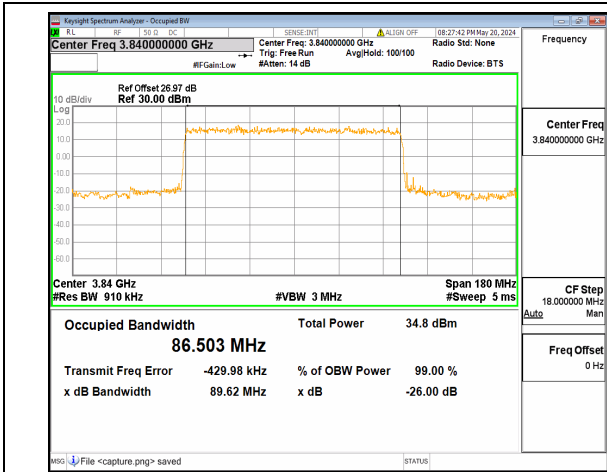
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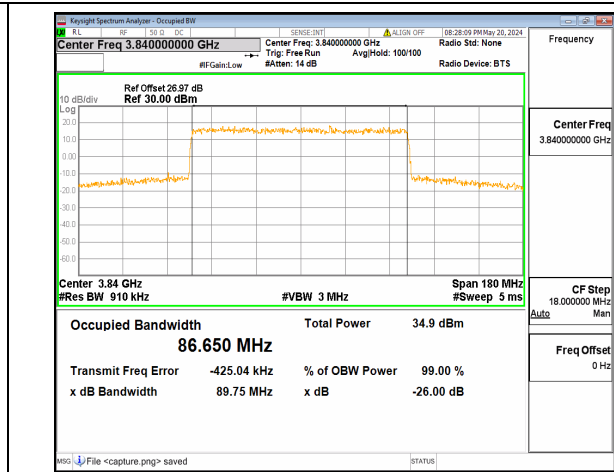
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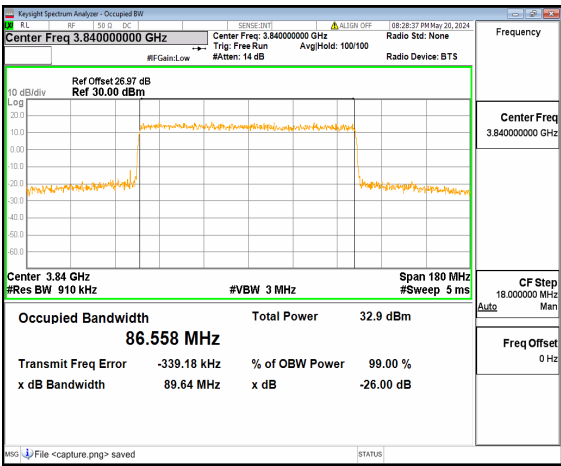
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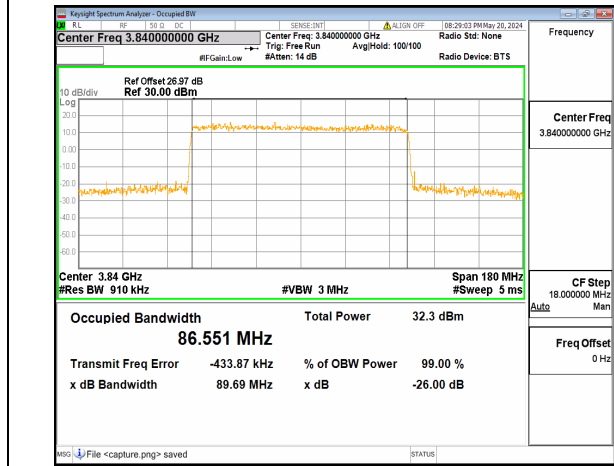
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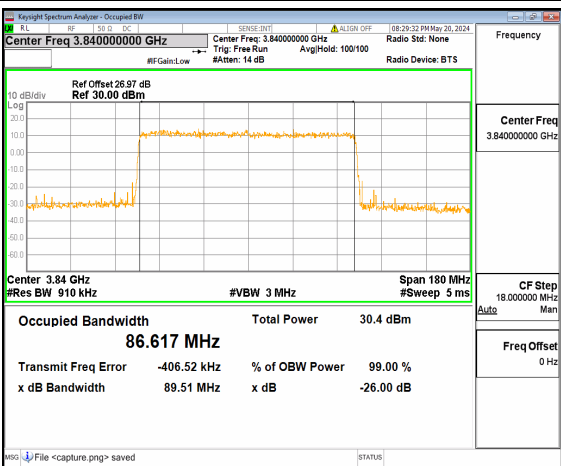
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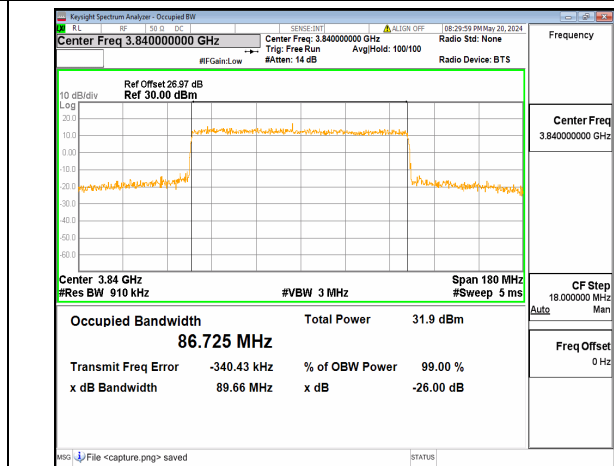
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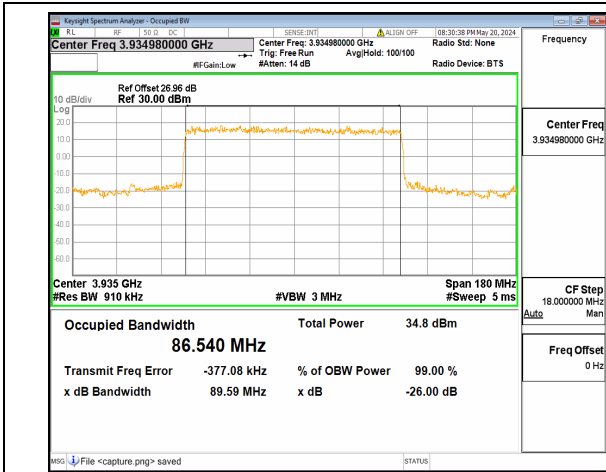
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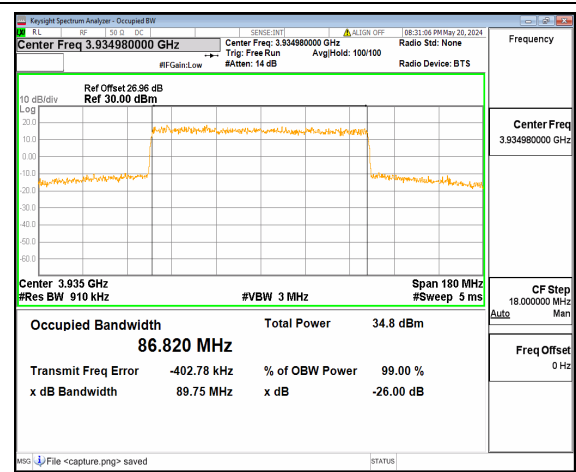
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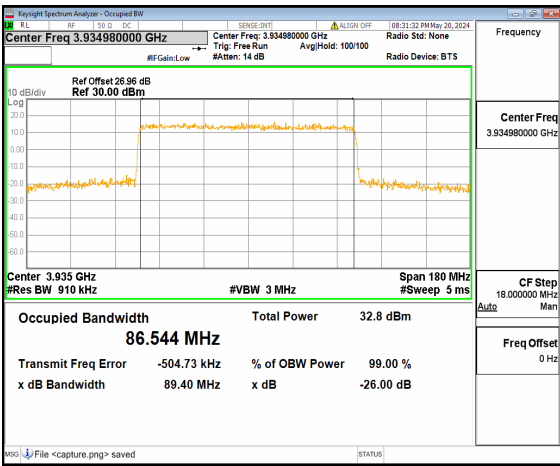
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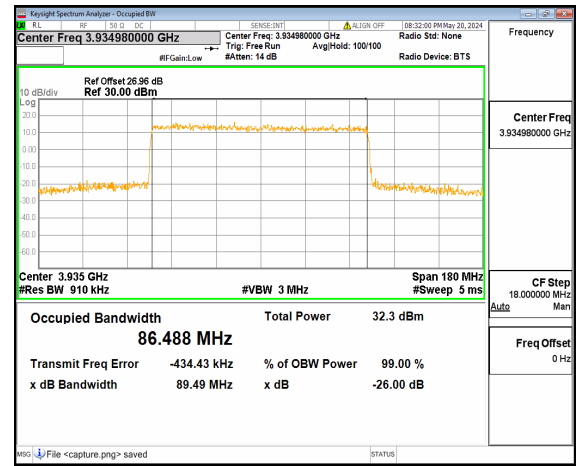
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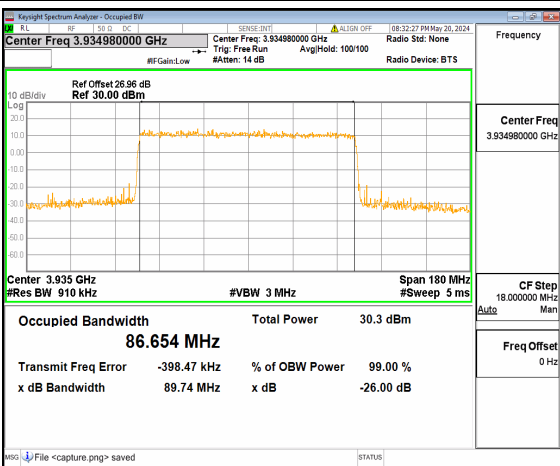
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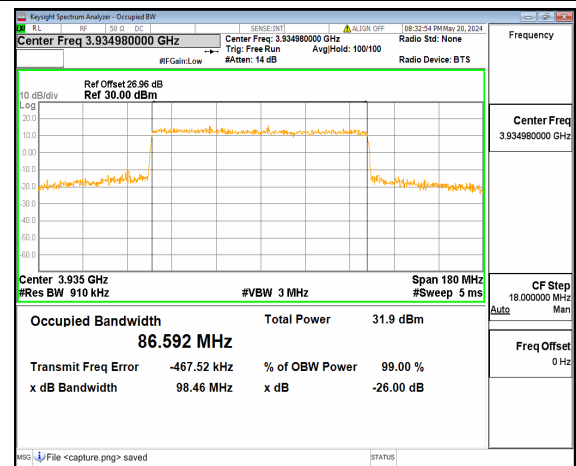
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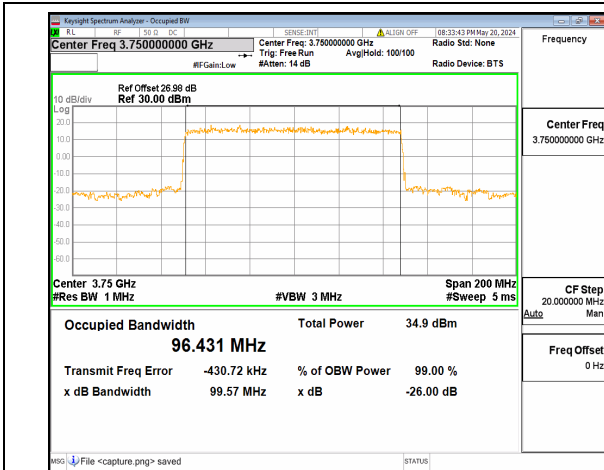
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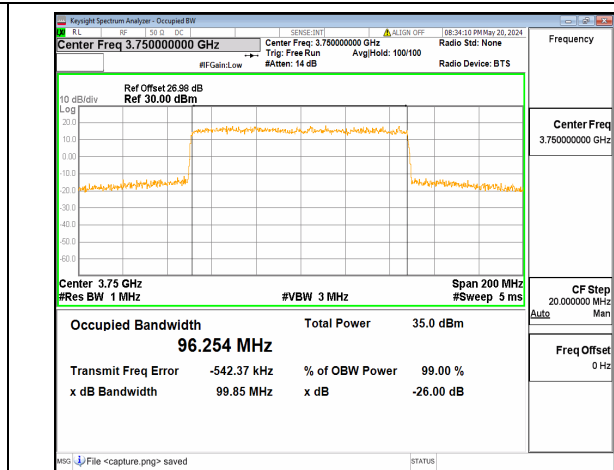
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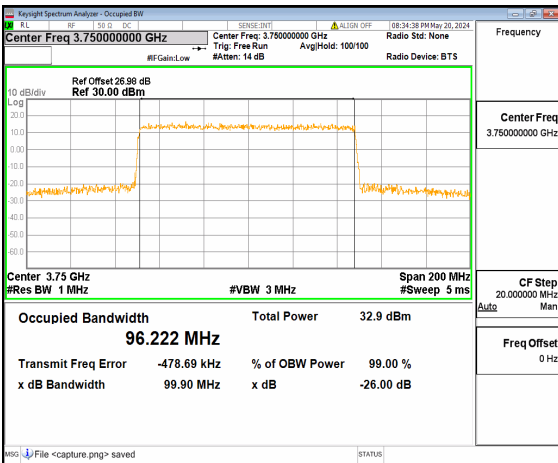
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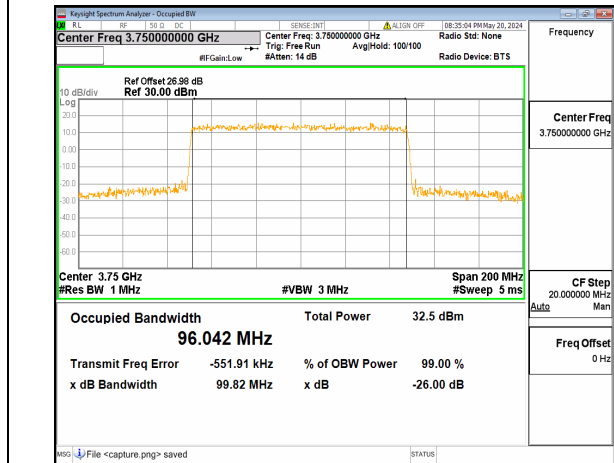
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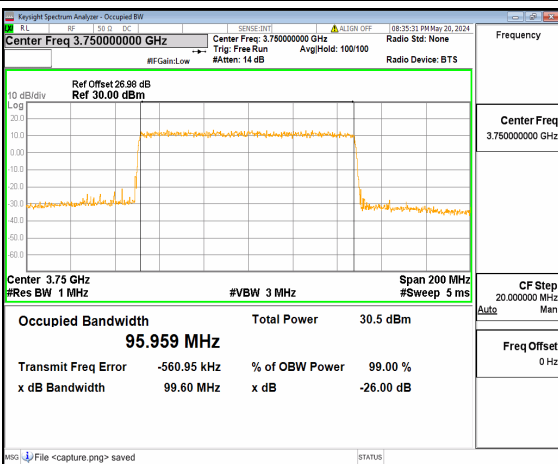
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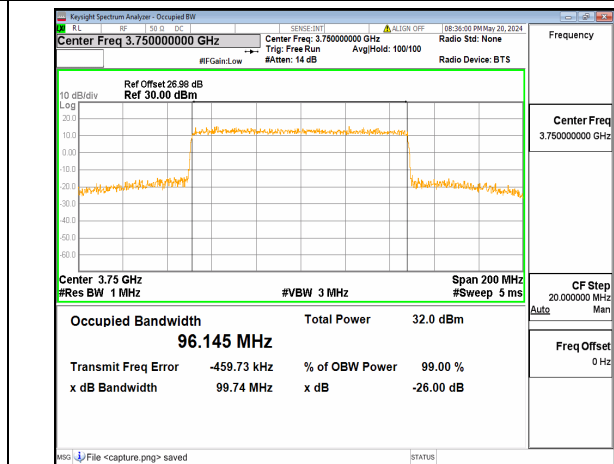
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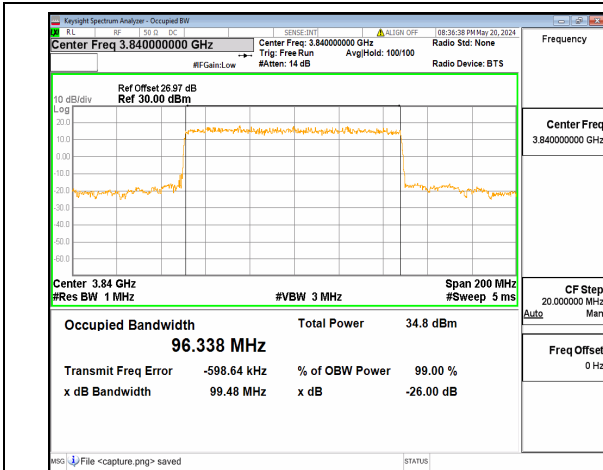
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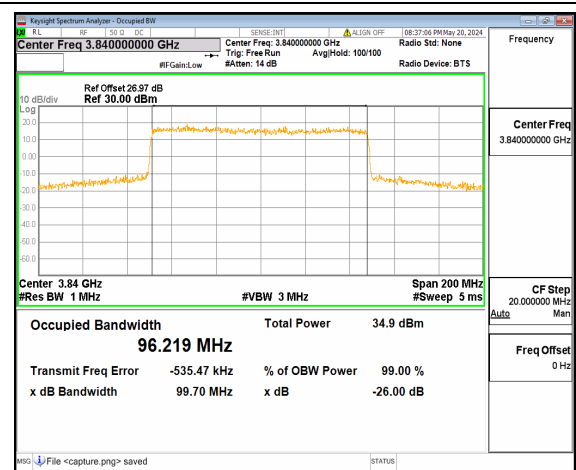
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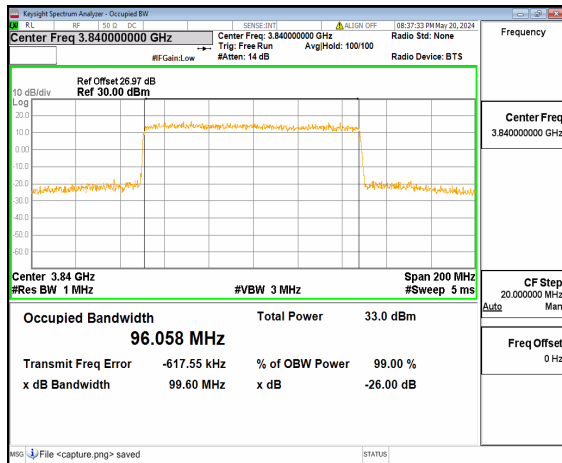
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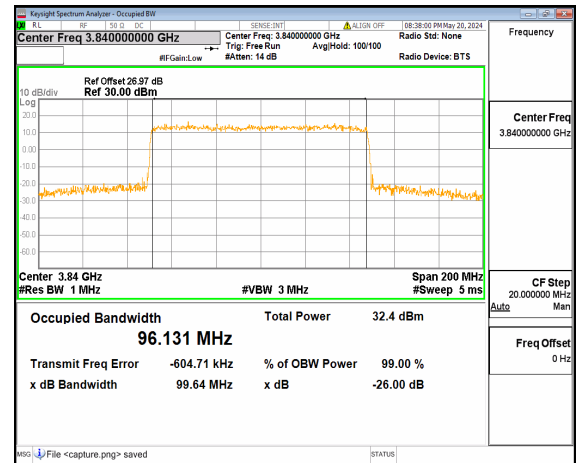
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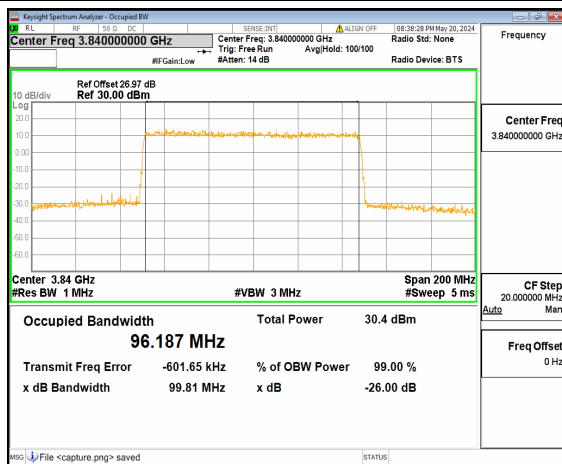
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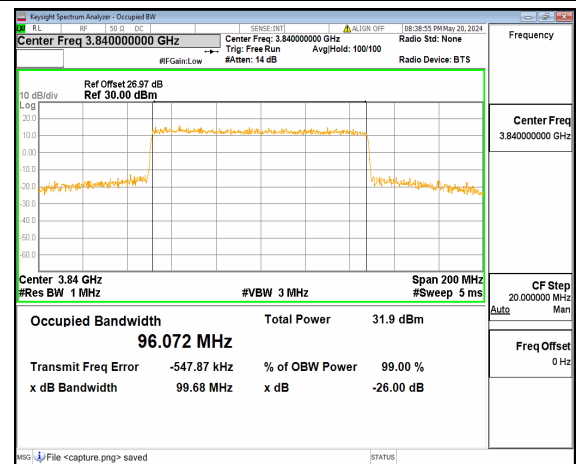
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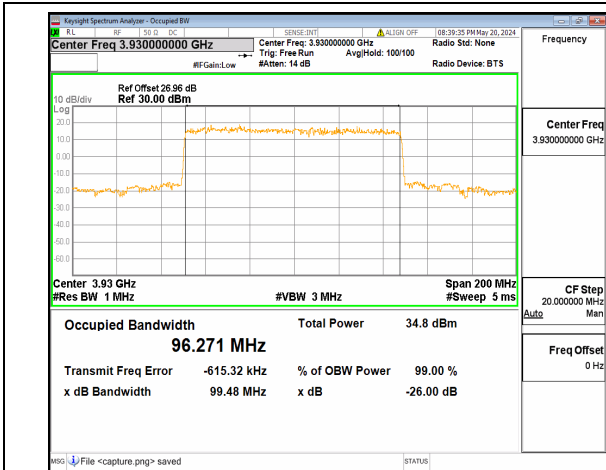
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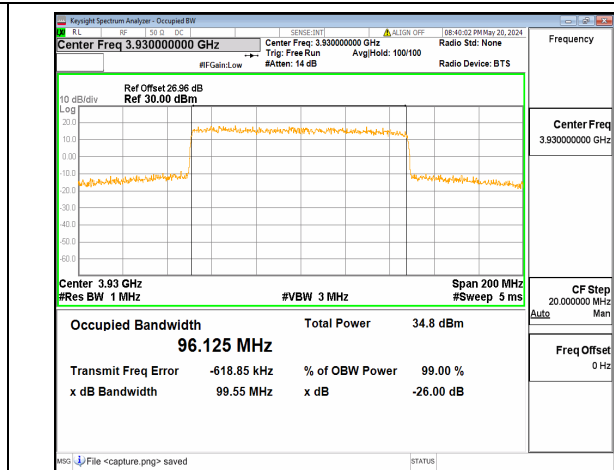
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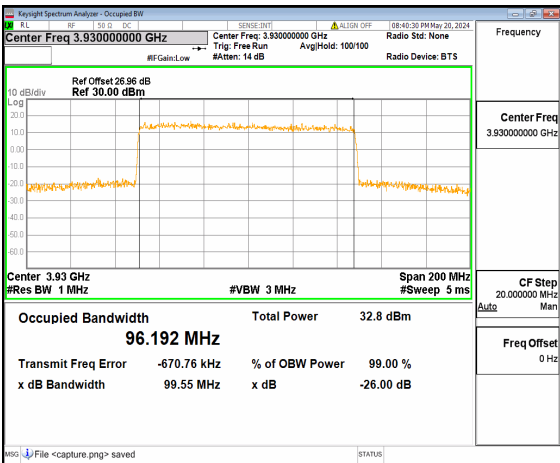
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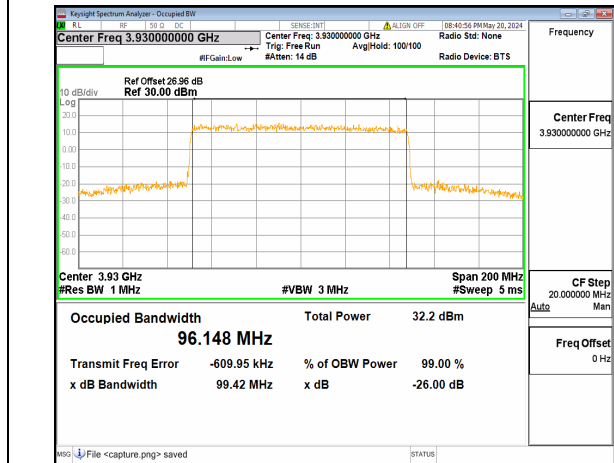
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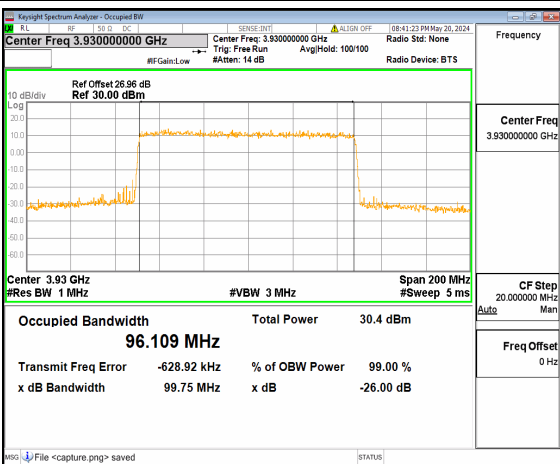
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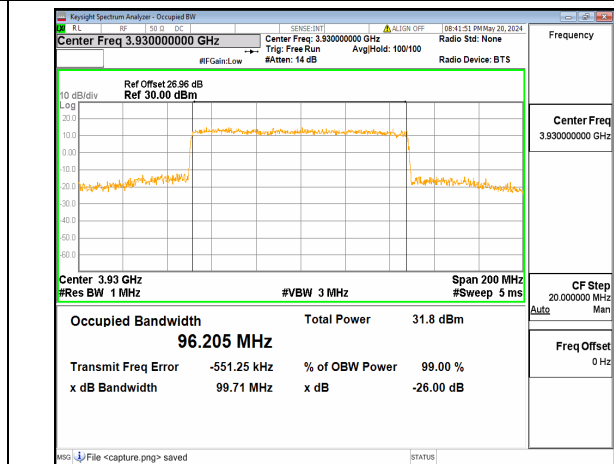
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n77(3700-3980MHz) 100M DFT-s-OFDM 64QAM Outer\_Full High



n77(3700-3980MHz) 100M DFT-s-OFDM 256QAM Outer\_Full High



n77(3700-3980MHz) 100M CP-OFDM QPSK Outer\_Full High

## 2.3. Frequency Stability

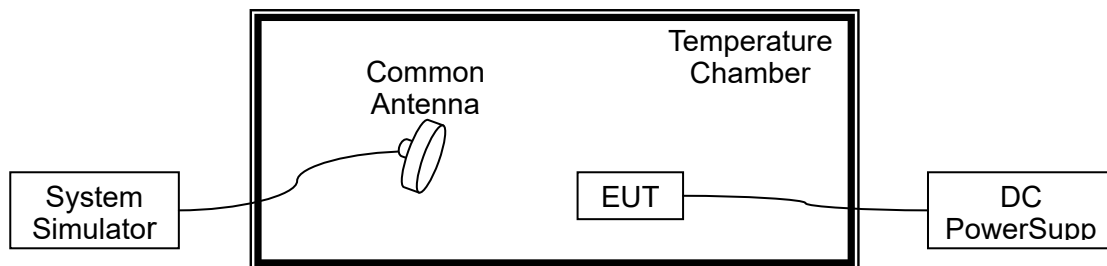
### 2.3.1. Requirement

According to FCC section 2.1055, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from  $-15^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , which are specified by the applicant.

### 2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

### 2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

### 2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 5VDC, 5.5VDC and 4.5VDC, which are specified by the applicant; the normal temperature here used is  $20^{\circ}\text{C}$ .





NR n41, QPSK, Channel 518598, SCS 30kHz, Frequency 2593MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	5	+20(Ref)	8	0.003	PASS
Normal		-15	16	0.006	
Normal		-10	14	0.005	
Normal		0	-15	-0.006	
Normal		+10	-12	-0.005	
Normal		+20	20	<b>0.008</b>	
Normal		+30	-3	-0.001	
Normal		+40	17	0.007	
Normal		+50	17	0.007	
Normal		+55	19	0.007	
High	5.5	+20	15	0.006	
BATT.ENDPOINT	4.5	+20	-12	-0.005	

NR n48, QPSK, Channel 641666, SCS 30kHz, Frequency 3624.99MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	5	+20(Ref)	20	<b>0.006</b>	PASS
Normal		-15	-3	-0.001	
Normal		-10	20	<b>0.006</b>	
Normal		0	18	0.005	
Normal		+10	13	0.004	
Normal		+20	8	0.002	
Normal		+30	15	0.004	
Normal		+40	19	0.005	
Normal		+50	19	0.005	
Normal		+55	16	0.004	
High	5.5	+20	16	0.004	
BATT.ENDPOINT	4.5	+20	-11	-0.003	

NR n77(3700 MHz ~ 3980 MHz), QPSK, Channel 656000, SCS 30kHz, Frequency 3840MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	5	+20(Ref)	19	0.005	PASS
Normal		-15	-18	-0.005	
Normal		-10	-14	-0.004	
Normal		0	-10	-0.003	
Normal		+10	18	0.005	
Normal		+20	13	0.003	
Normal		+30	20	<b>0.005</b>	
Normal		+40	16	0.004	
Normal		+50	1	0.000	
Normal		+55	13	0.003	



High	5.5	+20	19	0.005	
BATT.ENDPOINT	4.5	+20	15	0.004	

NR n77 (3450 MHz ~ 3550 MHz), QPSK, Channel 633334, SCS 30kHz, Frequency 3550MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	5	+20(Ref)	19	0.005	PASS
Normal		-15	1	0.000	
Normal		-10	20	<b>0.006</b>	
Normal		0	-22	-0.006	
Normal		+10	8	0.002	
Normal		+20	20	<b>0.006</b>	
Normal		+30	2	0.001	
Normal		+40	14	0.004	
Normal		+50	20	<b>0.006</b>	
Normal		+55	11	0.003	
High		5.5	+20	18	
BATT.ENDPOINT	4.5	+20	-10	-0.003	

## 2.4. Peak to Average Ratio

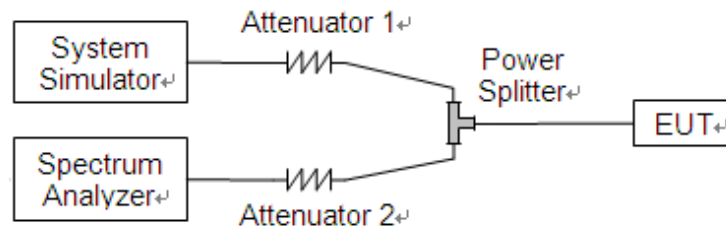
### 2.4.1. Requirement

According to FCC section 96.41(g) for n48, the peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB. PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities or another Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to FCC section 27.50(j)(4) and 25.50(k)(4) for n77, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 2.4.2. Test Description

Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



**Note:** In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode, SA mode is selected to test all test cases.

Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Result (dB)	Limit (dB)	Verdict
n48	30	10	637000	DFT-s-OFDM PI/2 BPSK	24/0	4.26	13	PASS
n48	30	10	637000	DFT-s-OFDM 256QAM	24/0	6.75	13	PASS
n48	30	10	637000	CP-OFDM QPSK	24/0	8.13	13	PASS
n48	30	10	637000	CP-OFDM 256QAM	24/0	8.29	13	PASS
n48	30	10	641666	DFT-s-OFDM PI/2 BPSK	24/0	4.46	13	PASS
n48	30	10	641666	DFT-s-OFDM 256QAM	24/0	6.76	13	PASS
n48	30	10	641666	CP-OFDM QPSK	24/0	8.08	13	PASS
n48	30	10	641666	CP-OFDM 256QAM	24/0	8.19	13	PASS
n48	30	10	646332	DFT-s-OFDM PI/2 BPSK	24/0	4.47	13	PASS
n48	30	10	646332	DFT-s-OFDM 256QAM	24/0	6.63	13	PASS
n48	30	10	646332	CP-OFDM QPSK	24/0	8.11	13	PASS
n48	30	10	646332	CP-OFDM 256QAM	24/0	8.21	13	PASS
n48	30	15	637168	DFT-s-OFDM PI/2 BPSK	36/0	4.33	13	PASS
n48	30	15	637168	DFT-s-OFDM 256QAM	36/0	6.52	13	PASS
n48	30	15	637168	CP-OFDM QPSK	36/0	8.19	13	PASS
n48	30	15	637168	CP-OFDM 256QAM	36/0	7.98	13	PASS
n48	30	15	641666	DFT-s-OFDM PI/2 BPSK	36/0	4.42	13	PASS



n48	30	15	641666	DFT-s-OFDM 256QAM	36/0	6.57	13	PASS
n48	30	15	641666	CP-OFDM QPSK	36/0	8.28	13	PASS
n48	30	15	641666	CP-OFDM 256QAM	36/0	8.03	13	PASS
n48	30	15	646166	DFT-s-OFDM PI/2 BPSK	36/0	4.45	13	PASS
n48	30	15	646166	DFT-s-OFDM 256QAM	36/0	6.62	13	PASS
n48	30	15	646166	CP-OFDM QPSK	36/0	8.26	13	PASS
n48	30	15	646166	CP-OFDM 256QAM	36/0	8.02	13	PASS
n48	30	20	637334	DFT-s-OFDM PI/2 BPSK	50/0	4.46	13	PASS
n48	30	20	637334	DFT-s-OFDM 256QAM	50/0	6.51	13	PASS
n48	30	20	637334	CP-OFDM QPSK	51/0	8.4	13	PASS
n48	30	20	637334	CP-OFDM 256QAM	51/0	8.05	13	PASS
n48	30	20	641666	DFT-s-OFDM PI/2 BPSK	50/0	4.62	13	PASS
n48	30	20	641666	DFT-s-OFDM 256QAM	50/0	6.57	13	PASS
n48	30	20	641666	CP-OFDM QPSK	51/0	8.38	13	PASS
n48	30	20	641666	CP-OFDM 256QAM	51/0	8.05	13	PASS
n48	30	20	646000	DFT-s-OFDM PI/2 BPSK	50/0	4.72	13	PASS
n48	30	20	646000	DFT-s-OFDM 256QAM	50/0	6.44	13	PASS
n48	30	20	646000	CP-OFDM QPSK	51/0	8.37	13	PASS
n48	30	20	646000	CP-OFDM 256QAM	51/0	8.11	13	PASS
n48	30	40	638000	DFT-s-OFDM PI/2 BPSK	100/0	4.42	13	PASS



n48	30	40	638000	DFT-s-OFDM 256QAM	100/0	6.59	13	PASS
n48	30	40	638000	CP-OFDM QPSK	106/0	8.17	13	PASS
n48	30	40	638000	CP-OFDM 256QAM	106/0	8.37	13	PASS
n48	30	40	641666	DFT-s-OFDM PI/2 BPSK	100/0	4.21	13	PASS
n48	30	40	641666	DFT-s-OFDM 256QAM	100/0	6.52	13	PASS
n48	30	40	641666	CP-OFDM QPSK	106/0	8.2	13	PASS
n48	30	40	641666	CP-OFDM 256QAM	106/0	8.34	13	PASS
n48	30	40	645332	DFT-s-OFDM PI/2 BPSK	100/0	4.18	13	PASS
n48	30	40	645332	DFT-s-OFDM 256QAM	100/0	6.54	13	PASS
n48	30	40	645332	CP-OFDM QPSK	106/0	8.28	13	PASS
n48	30	40	645332	CP-OFDM 256QAM	106/0	8.31	13	PASS
n48	30	50	638334	DFT-s-OFDM PI/2 BPSK	128/0	4.37	13	PASS
n48	30	50	638334	DFT-s-OFDM 256QAM	128/0	6.67	13	PASS
n48	30	50	638334	CP-OFDM QPSK	133/0	8.6	13	PASS
n48	30	50	638334	CP-OFDM 256QAM	133/0	8.38	13	PASS
n48	30	50	641666	DFT-s-OFDM PI/2 BPSK	128/0	3.72	13	PASS
n48	30	50	641666	DFT-s-OFDM 256QAM	128/0	6.5	13	PASS
n48	30	50	641666	CP-OFDM QPSK	133/0	8.58	13	PASS
n48	30	50	641666	CP-OFDM 256QAM	133/0	8.34	13	PASS
n48	30	50	645000	DFT-s-OFDM PI/2 BPSK	128/0	3.65	13	PASS



n48	30	50	645000	DFT-s-OFDM 256QAM	128/0	6.49	13	PASS
n48	30	50	645000	CP-OFDM QPSK	133/0	8.5	13	PASS
n48	30	50	645000	CP-OFDM 256QAM	133/0	8.25	13	PASS
n48	30	60	638668	DFT-s-OFDM PI/2 BPSK	162/0	4.32	13	PASS
n48	30	60	638668	DFT-s-OFDM 256QAM	162/0	6.48	13	PASS
n48	30	60	638668	CP-OFDM QPSK	162/0	8.38	13	PASS
n48	30	60	638668	CP-OFDM 256QAM	162/0	8.29	13	PASS
n48	30	60	641666	DFT-s-OFDM PI/2 BPSK	162/0	2.99	13	PASS
n48	30	60	641666	DFT-s-OFDM 256QAM	162/0	6.4	13	PASS
n48	30	60	641666	CP-OFDM QPSK	162/0	8.46	13	PASS
n48	30	60	641666	CP-OFDM 256QAM	162/0	8.47	13	PASS
n48	30	60	644666	DFT-s-OFDM PI/2 BPSK	162/0	2.86	13	PASS
n48	30	60	644666	DFT-s-OFDM 256QAM	162/0	6.3	13	PASS
n48	30	60	644666	CP-OFDM QPSK	162/0	8.52	13	PASS
n48	30	60	644666	CP-OFDM 256QAM	162/0	8.39	13	PASS
n48	30	80	639334	DFT-s-OFDM PI/2 BPSK	216/0	4.43	13	PASS
n48	30	80	639334	DFT-s-OFDM 256QAM	216/0	6.89	13	PASS
n48	30	80	639334	CP-OFDM QPSK	217/0	8.27	13	PASS
n48	30	80	639334	CP-OFDM 256QAM	217/0	8.3	13	PASS
n48	30	80	641666	DFT-s-OFDM PI/2 BPSK	216/0	2.81	13	PASS



n48	30	80	641666	DFT-s-OFDM 256QAM	216/0	6.41	13	PASS
n48	30	80	641666	CP-OFDM QPSK	217/0	8.39	13	PASS
n48	30	80	641666	CP-OFDM 256QAM	217/0	8.44	13	PASS
n48	30	80	644000	DFT-s-OFDM PI/2 BPSK	216/0	2.93	13	PASS
n48	30	80	644000	DFT-s-OFDM 256QAM	216/0	6.41	13	PASS
n48	30	80	644000	CP-OFDM QPSK	217/0	8.24	13	PASS
n48	30	80	644000	CP-OFDM 256QAM	217/0	8.46	13	PASS
n48	30	90	639668	DFT-s-OFDM PI/2 BPSK	243/0	4.46	13	PASS
n48	30	90	639668	DFT-s-OFDM 256QAM	243/0	6.54	13	PASS
n48	30	90	639668	CP-OFDM QPSK	245/0	8.28	13	PASS
n48	30	90	639668	CP-OFDM 256QAM	245/0	8.29	13	PASS
n48	30	90	641666	DFT-s-OFDM PI/2 BPSK	243/0	2.95	13	PASS
n48	30	90	641666	DFT-s-OFDM 256QAM	243/0	6.34	13	PASS
n48	30	90	641666	CP-OFDM QPSK	245/0	8.41	13	PASS
n48	30	90	641666	CP-OFDM 256QAM	245/0	8.23	13	PASS
n48	30	90	643666	DFT-s-OFDM PI/2 BPSK	243/0	3.03	13	PASS
n48	30	90	643666	DFT-s-OFDM 256QAM	243/0	6.38	13	PASS
n48	30	90	643666	CP-OFDM QPSK	245/0	8.25	13	PASS
n48	30	90	643666	CP-OFDM 256QAM	245/0	8.3	13	PASS
n48	30	100	640000	DFT-s-OFDM PI/2 BPSK	270/0	4.46	13	PASS





n48	30	100	640000	DFT-s-OFDM 256QAM	270/0	6.58	13	PASS
n48	30	100	640000	CP-OFDM QPSK	273/0	8.43	13	PASS
n48	30	100	640000	CP-OFDM 256QAM	273/0	8.45	13	PASS
n48	30	100	641666	DFT-s-OFDM PI/2 BPSK	270/0	2.92	13	PASS
n48	30	100	641666	DFT-s-OFDM 256QAM	270/0	6.56	13	PASS
n48	30	100	641666	CP-OFDM QPSK	273/0	8.31	13	PASS
n48	30	100	641666	CP-OFDM 256QAM	273/0	8.31	13	PASS
n48	30	100	643332	DFT-s-OFDM PI/2 BPSK	270/0	3.04	13	PASS
n48	30	100	643332	DFT-s-OFDM 256QAM	270/0	6.56	13	PASS
n48	30	100	643332	CP-OFDM QPSK	273/0	8.31	13	PASS
n48	30	100	643332	CP-OFDM 256QAM	273/0	8.29	13	PASS