



Band26 / 10MHz / Mid CH / QPSK



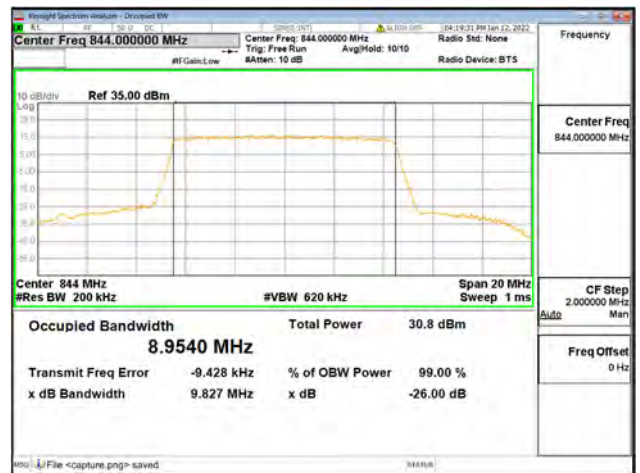
Band26 / 10MHz / Mid CH / 16QAM



Band26 / 10MHz / Mid CH / 64QAM



Band26 / 10MHz / High CH / QPSK



Band26 / 10MHz / High CH / 16QAM



Band26 / 10MHz / High CH / 64QAM





Band26 / 15MHz / Low CH / QPSK



Band26 / 15MHz / Low CH / 16QAM



Band26 / 15MHz / Low CH / 64QAM



Band26 / 15MHz / Mid CH / QPSK



Band26 / 15MHz / Mid CH / 16QAM



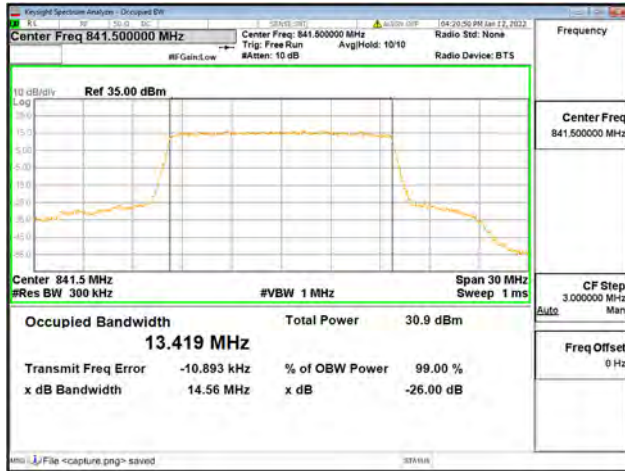
Band26 / 15MHz / Mid CH / 64QAM







Band26 / 15MHz / High CH / QPSK



Band26 / 15MHz / High CH / 16QAM



Band26 / 15MHz / High CH / 64QAM





Band38 / 5MHz / Low CH / QPSK



Band38 / 5MHz / Low CH / 16QAM



Band38 / 5MHz / Low CH / 64QAM



Band38 / 5MHz / Mid CH / QPSK



Band38 / 5MHz / Mid CH / 16QAM



Band38 / 5MHz / Mid CH / 64QAM





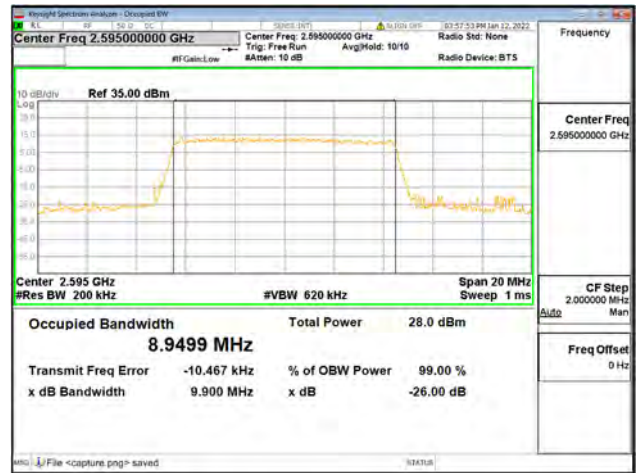




Band38 / 10MHz / Mid CH / QPSK



Band38 / 10MHz / Mid CH / 16QAM



Band38 / 10MHz / Mid CH / 64QAM



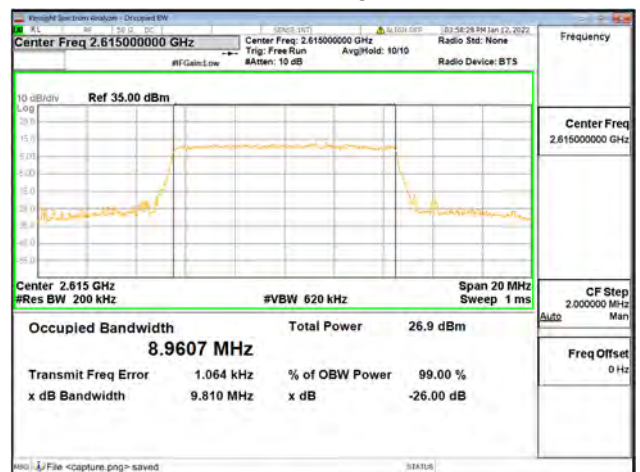
Band38 / 10MHz / High CH / QPSK



Band38 / 10MHz / High CH / 16QAM



Band38 / 10MHz / High CH / 64QAM









Band38 / 15MHz / High CH / QPSK



Band38 / 15MHz / High CH / 16QAM



Band38 / 15MHz / High CH / 64QAM



Band38 / 20MHz / Low CH / QPSK



Band38 / 20MHz / Low CH / 16QAM



Band38 / 20MHz / Low CH / 64QAM







Band38 / 20MHz / Mid CH / QPSK



Band38 / 20MHz / Mid CH / 16QAM



Band38 / 20MHz / Mid CH / 64QAM



Band38 / 20MHz / High CH / QPSK

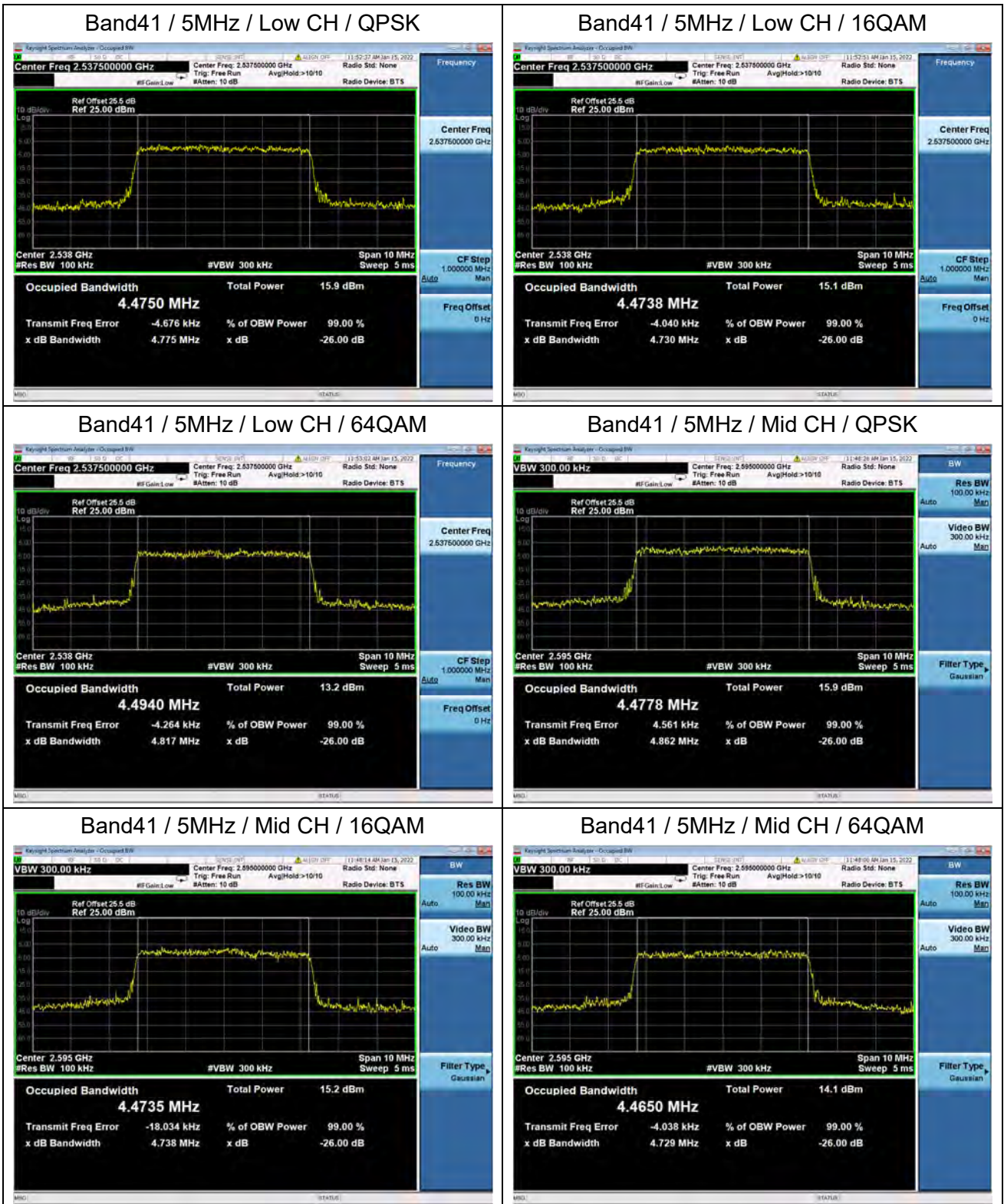


Band38 / 20MHz / High CH / 16QAM



Band38 / 20MHz / High CH / 64QAM









Band41 / 5MHz / High CH / QPSK



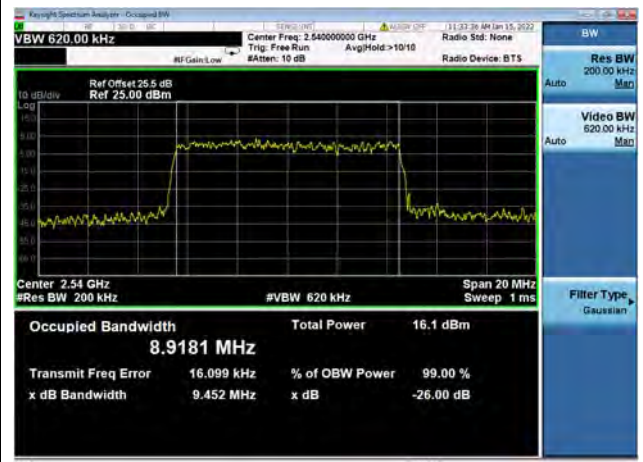
Band41 / 5MHz / High CH / 16QAM



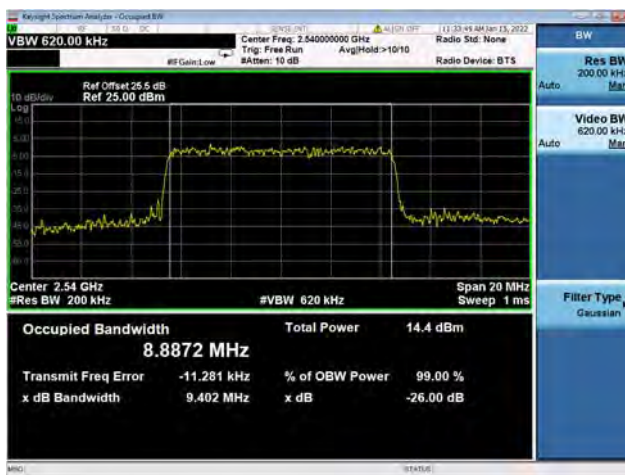
Band41 / 5MHz / High CH / 64QAM



Band41 / 10MHz / Low CH / QPSK



Band41 / 10MHz / Low CH / 16QAM

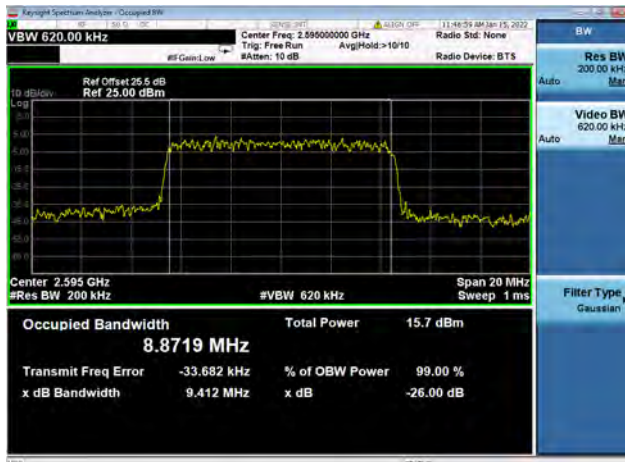


Band41 / 10MHz / Low CH / 64QAM





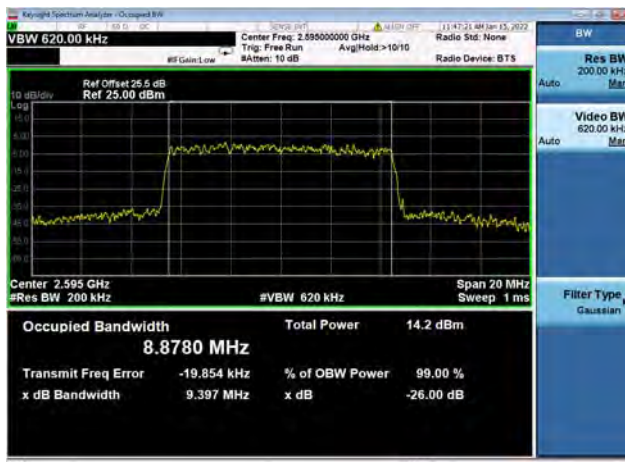
Band41 / 10MHz / Mid CH / QPSK



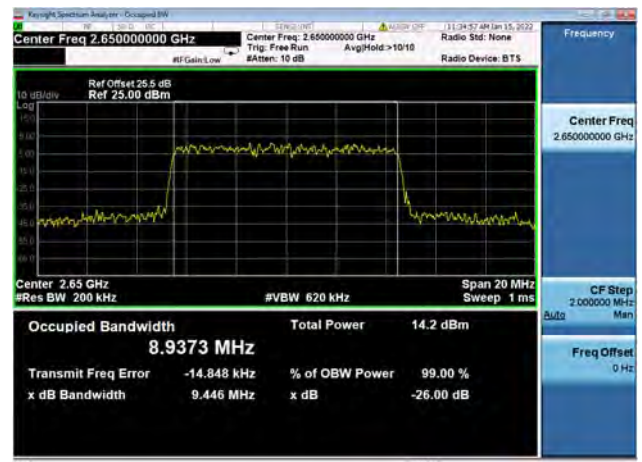
Band41 / 10MHz / Mid CH / 16QAM



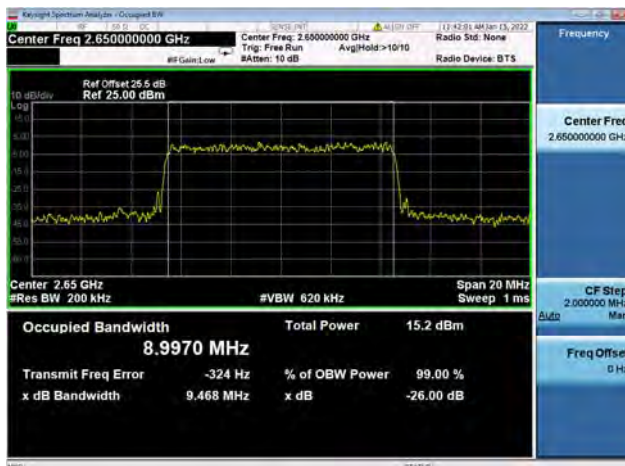
Band41 / 10MHz / Mid CH / 64QAM



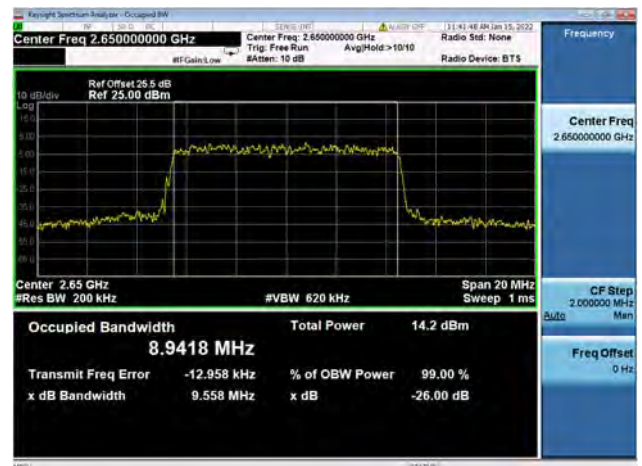
Band41 / 10MHz / High CH / QPSK



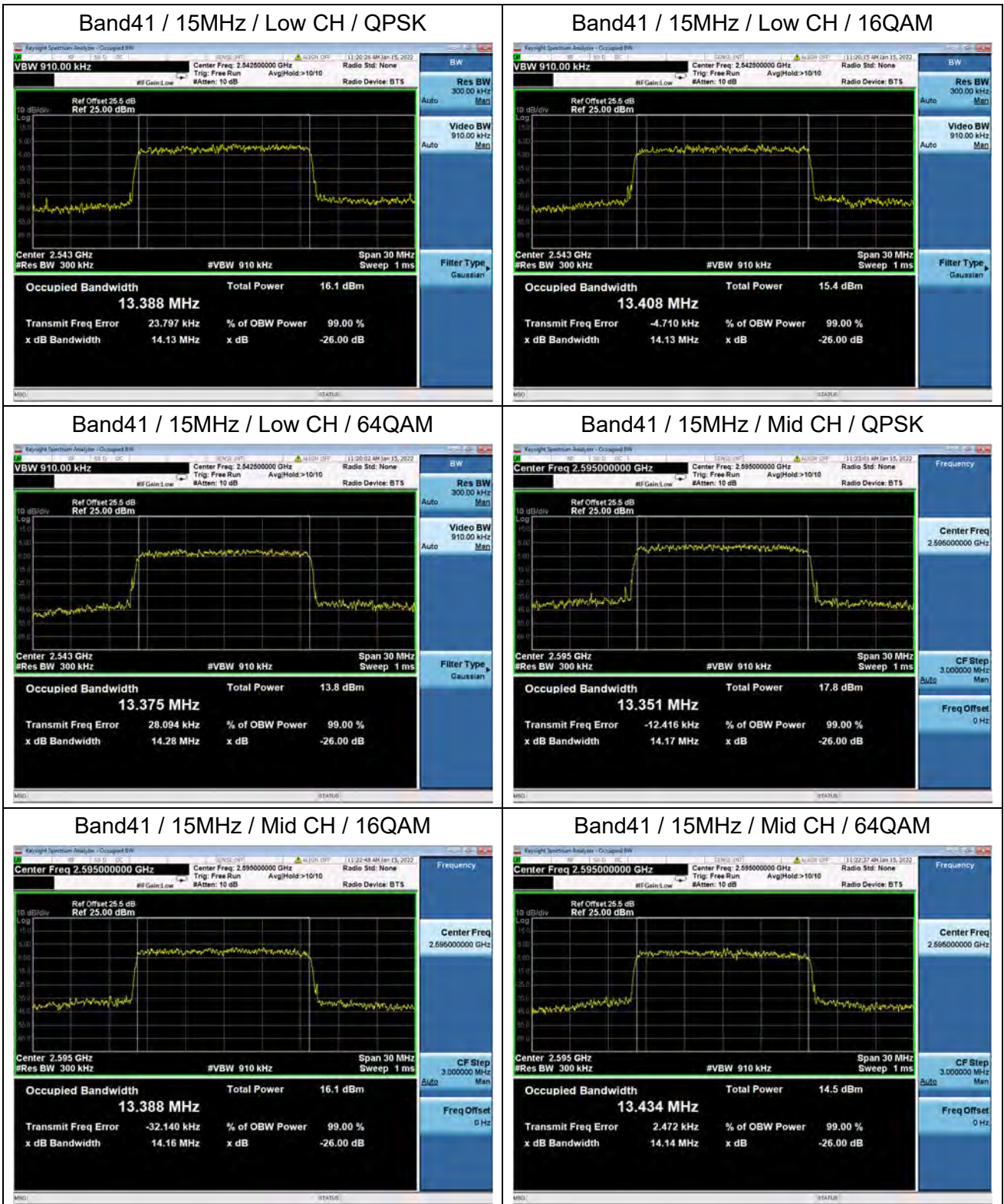
Band41 / 10MHz / High CH / 16QAM

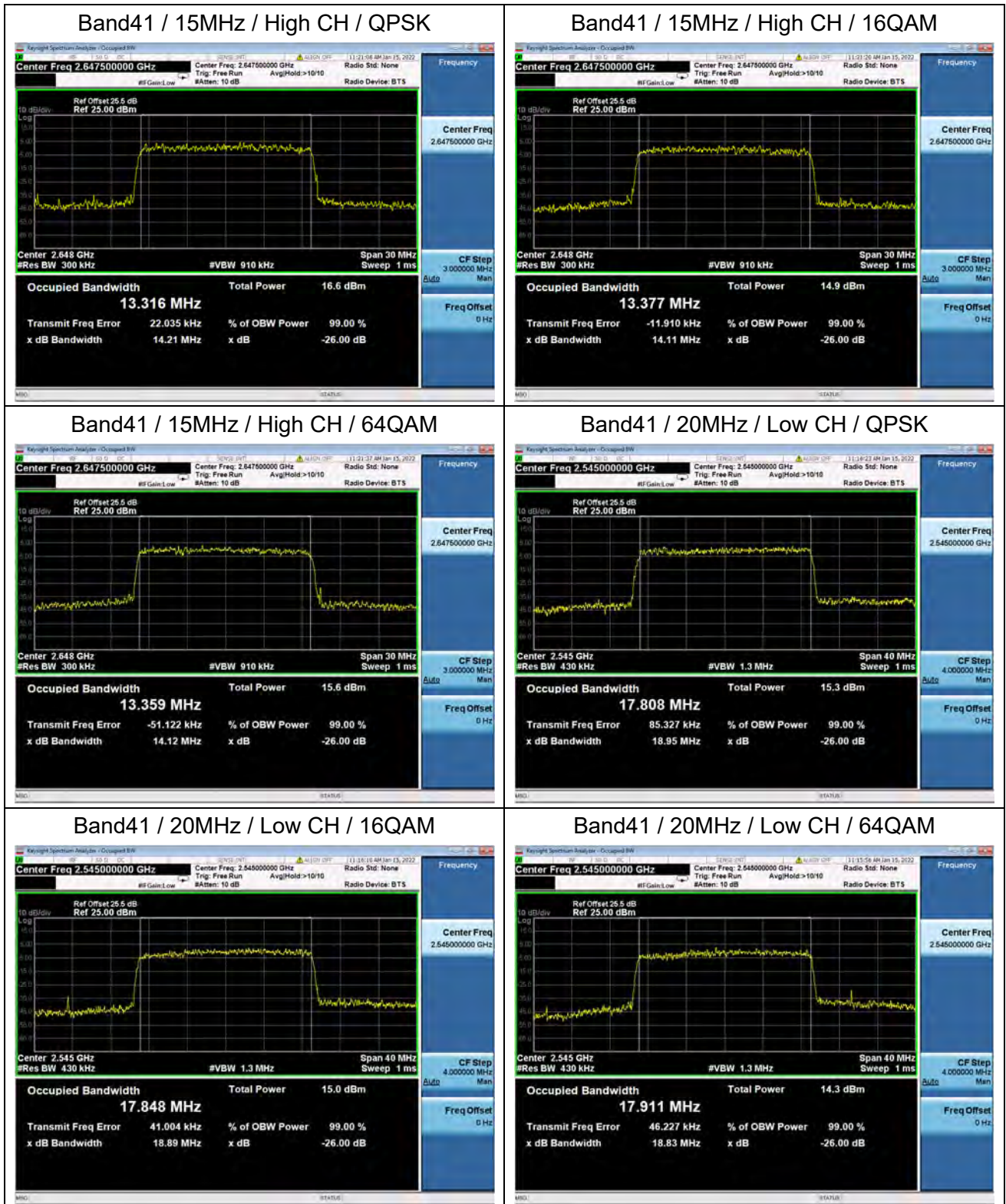


Band41 / 10MHz / High CH / 64QAM

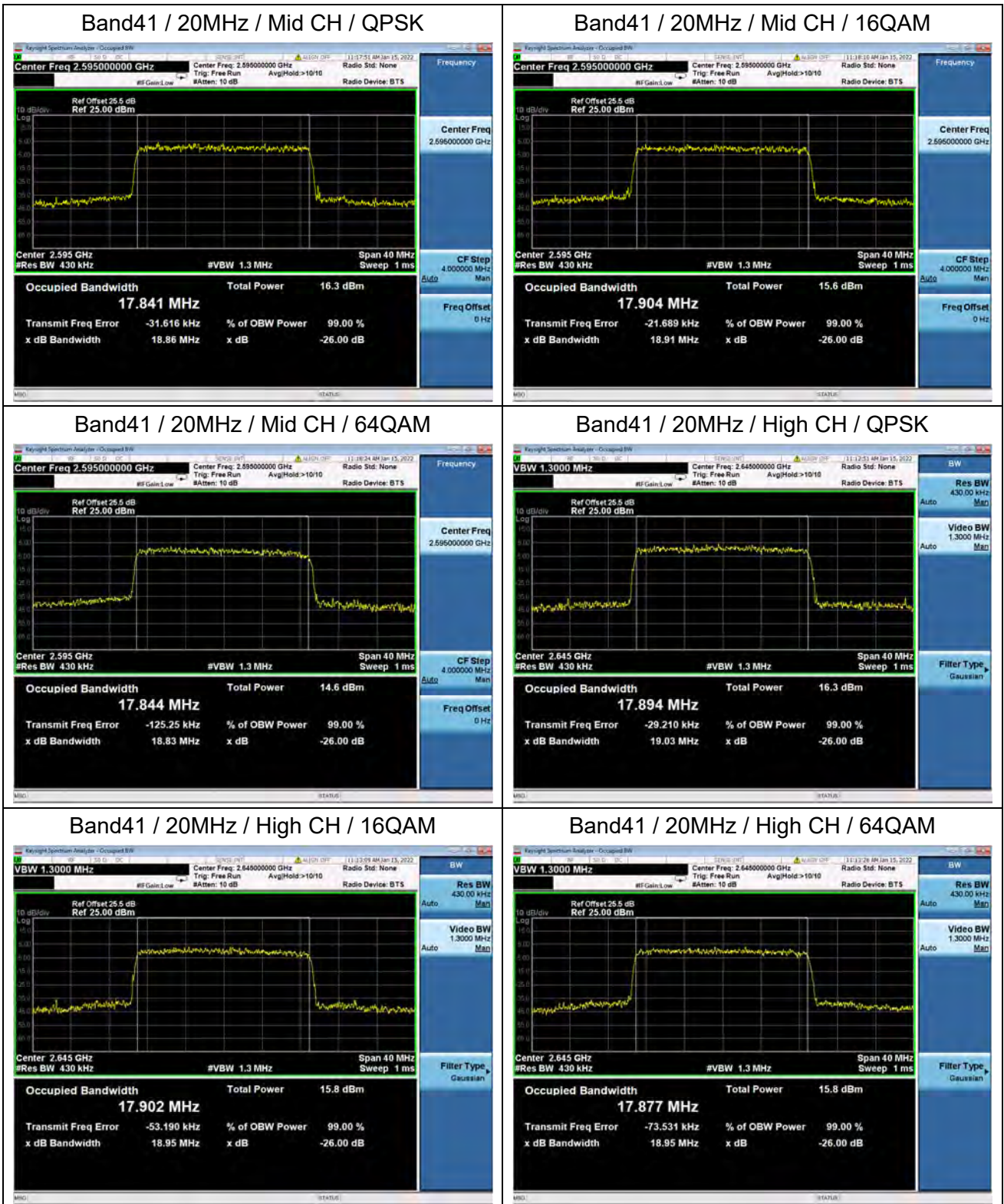














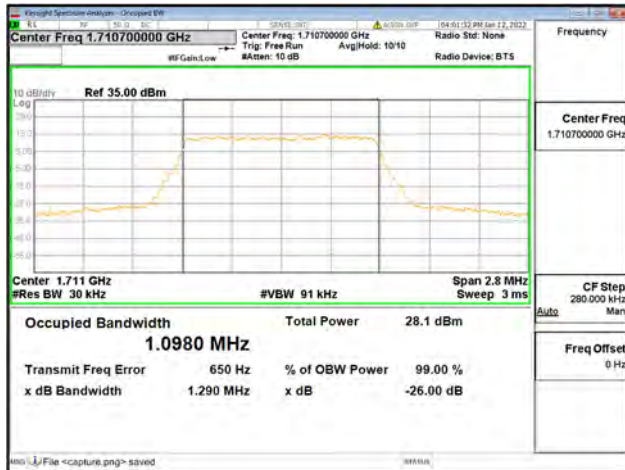
Band66 / 1.4MHz / Low CH / QPSK



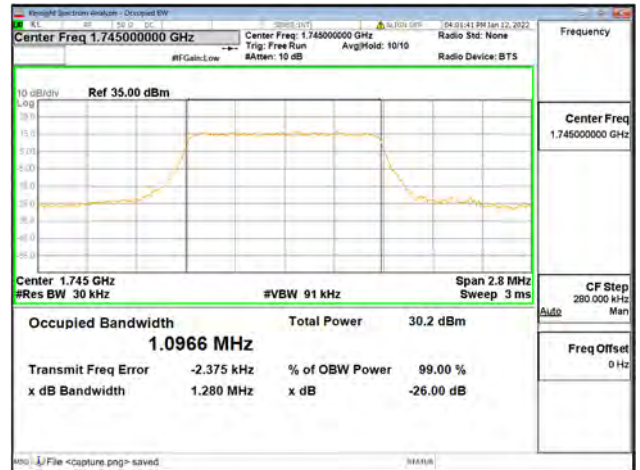
Band66 / 1.4MHz / Low CH / 16QAM



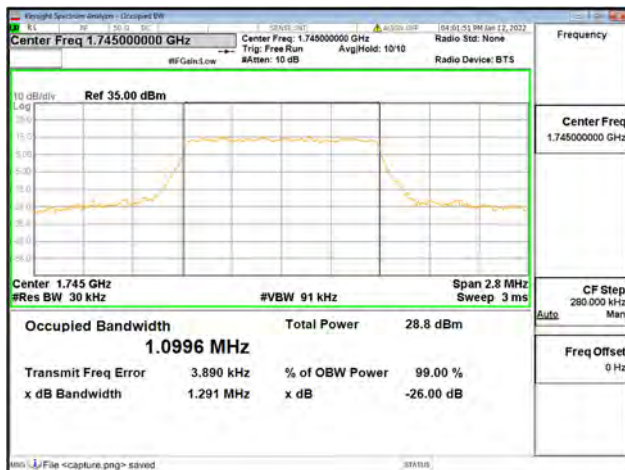
Band66 / 1.4MHz / Low CH / 64QAM



Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM



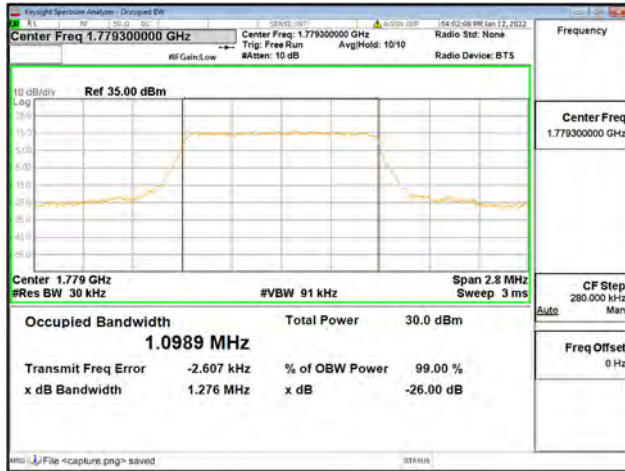
Band66 / 1.4MHz / Mid CH / 64QAM



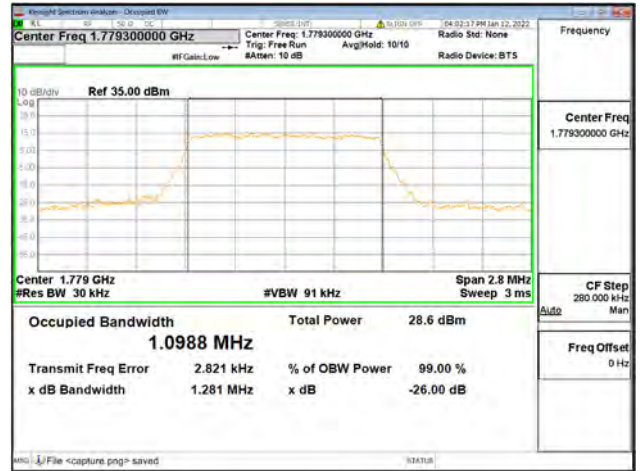




Band66 / 1.4MHz / High CH / QPSK



Band66 / 1.4MHz / High CH / 16QAM



Band66 / 1.4MHz / High CH / 64QAM



Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM

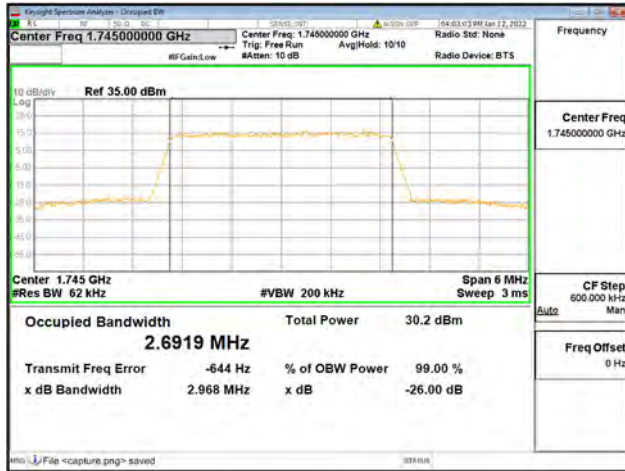


Band66 / 3MHz / Low CH / 64QAM





Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / Mid CH / 64QAM



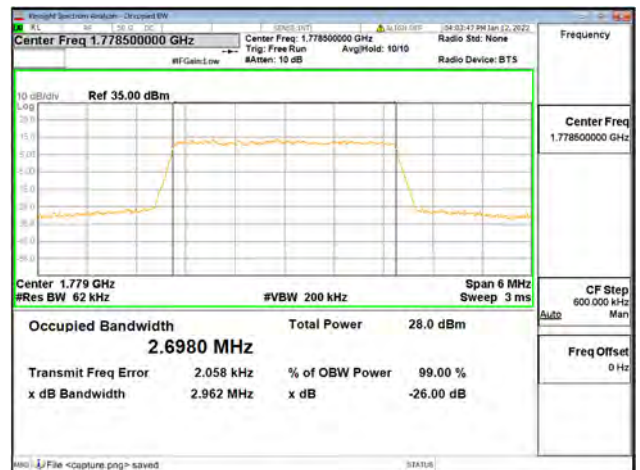
Band66 / 3MHz / High CH / QPSK



Band66 / 3MHz / High CH / 16QAM



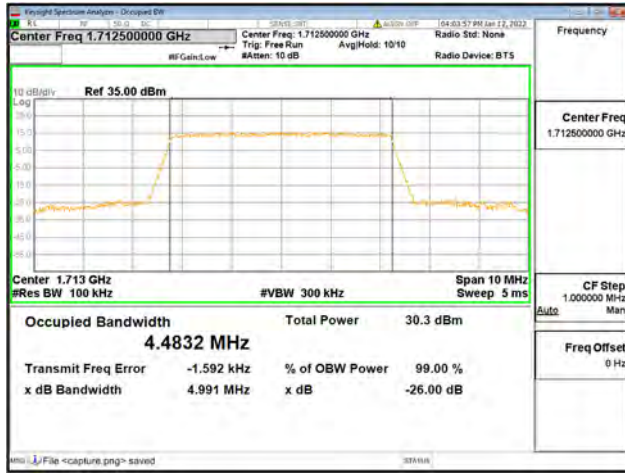
Band66 / 3MHz / High CH / 64QAM







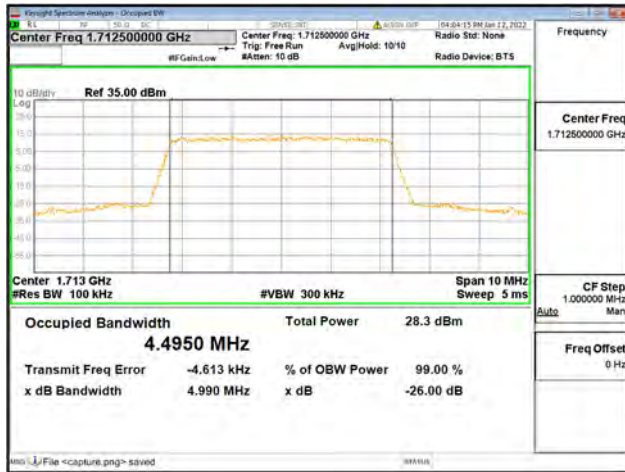
Band66 / 5MHz / Low CH / QPSK



Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Low CH / 64QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM

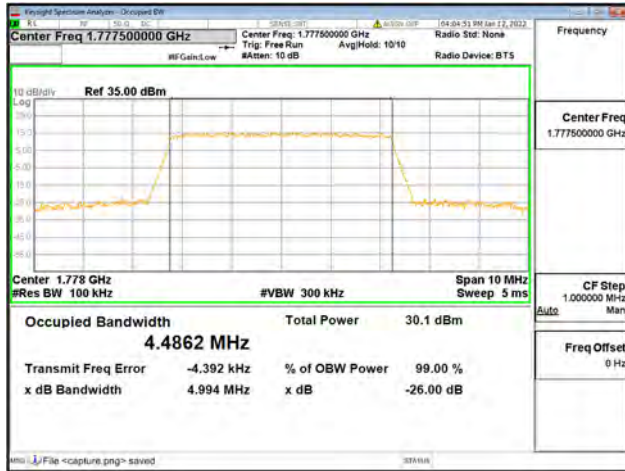


Band66 / 5MHz / Mid CH / 64QAM





Band66 / 5MHz / High CH / QPSK



Band66 / 5MHz / High CH / 16QAM



Band66 / 5MHz / High CH / 64QAM



Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM



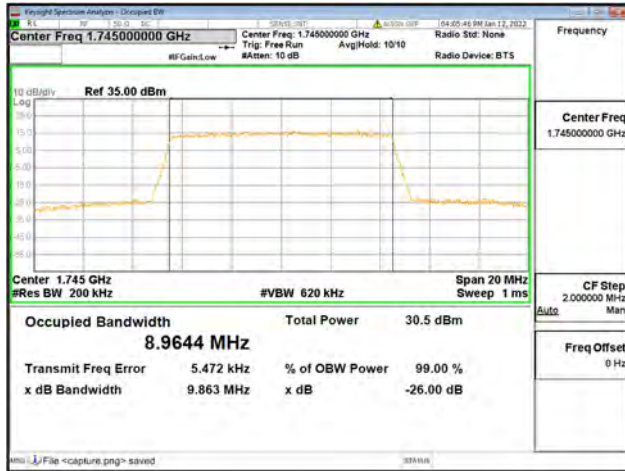
Band66 / 10MHz / Low CH / 64QAM







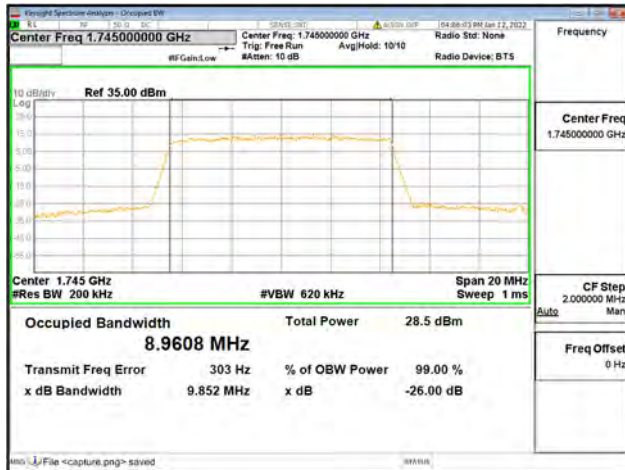
Band66 / 10MHz / Mid CH / QPSK



Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / Mid CH / 64QAM



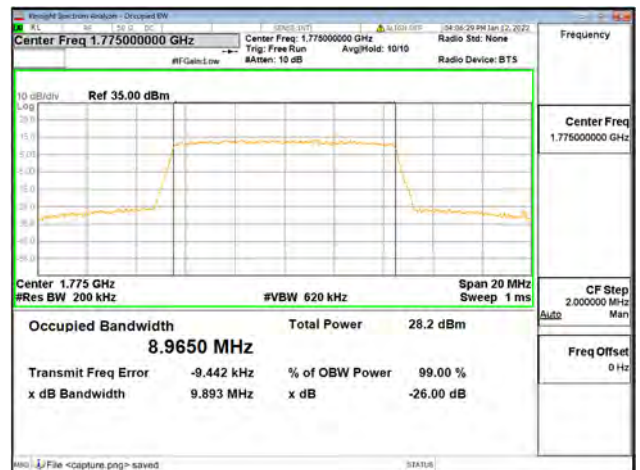
Band66 / 10MHz / High CH / QPSK



Band66 / 10MHz / High CH / 16QAM

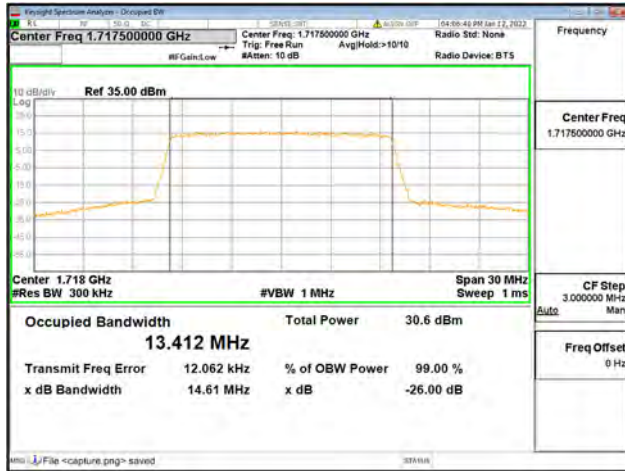


Band66 / 10MHz / High CH / 64QAM





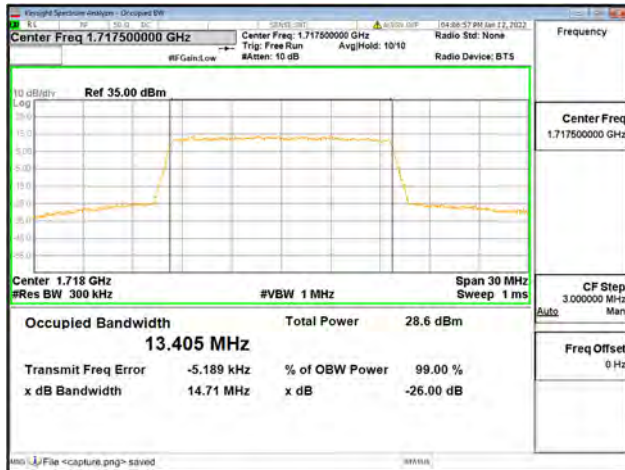
Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Low CH / 64QAM



Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM



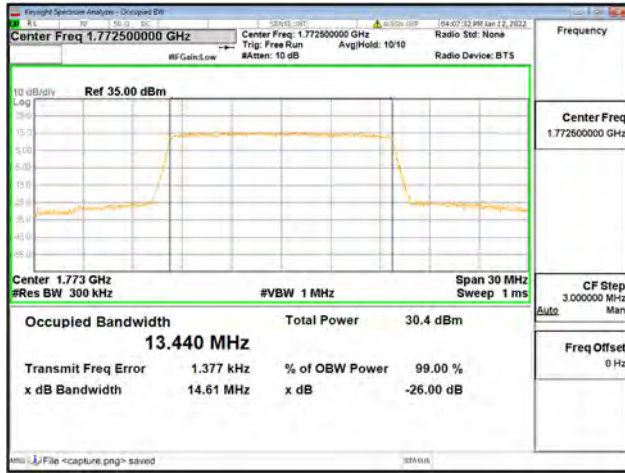
Band66 / 15MHz / Mid CH / 64QAM



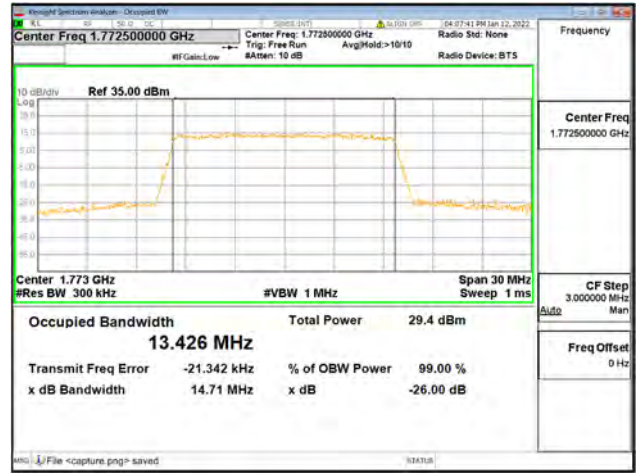




Band66 / 15MHz / High CH / QPSK



Band66 / 15MHz / High CH / 16QAM



Band66 / 15MHz / High CH / 64QAM



Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM

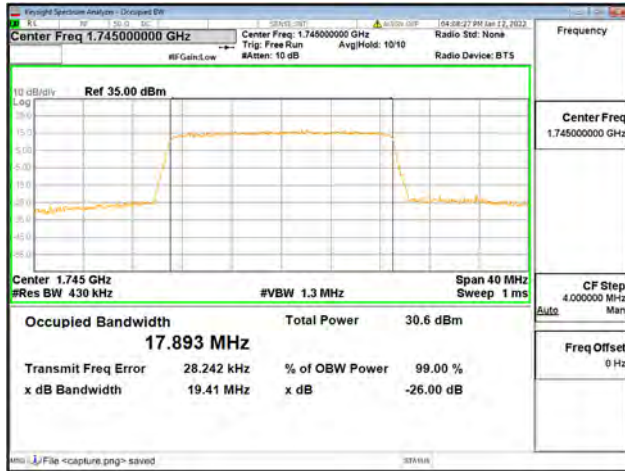


Band66 / 20MHz / Low CH / 64QAM





Band66 / 20MHz / Mid CH / QPSK



Band66 / 20MHz / Mid CH / 16QAM



Band66 / 20MHz / Mid CH / 64QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM





## 2.3. Frequency Stability

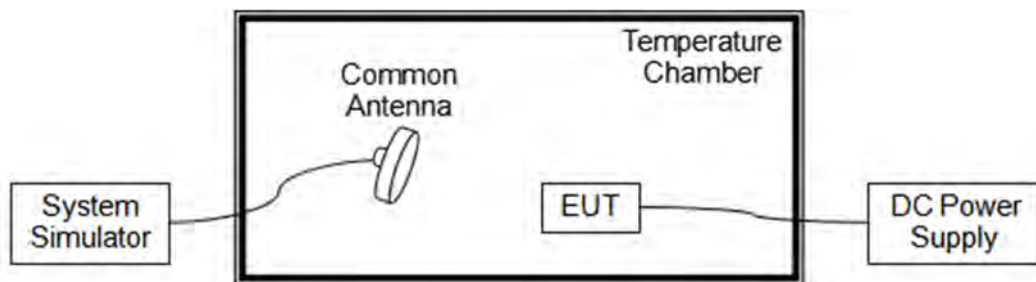
### 2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, 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  $0^{\circ}\text{C}$  to  $35^{\circ}\text{C}$ , 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 3.87V, 4.45V and 3.00V, which are specified by the applicant; the normal temperature here used is 20°C.

<b>LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz</b>					
<b>Limit =Within Authorized Band</b>					
<b>Voltage (%)</b>	<b>Power (VDC)</b>	<b>Temp(°C)</b>	<b>Fre. Dev. (Hz)</b>	<b>Deviation (ppm)</b>	<b>Result</b>
Normal	3.87	+20(Ref)	42	0.022	PASS
Normal		0	15	0.008	
Normal		+10	25	0.013	
Normal		+20	-54	-0.029	
Normal		+30	-32	-0.017	
Normal		+35	-18	-0.010	
High	4.45	+20	36	0.019	
BATT.ENDPOINT	3.00	+20	-34	-0.018	

<b>LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz</b>					
<b>Limit =Within Authorized Band</b>					
<b>Voltage (%)</b>	<b>Power (VDC)</b>	<b>Temp(°C)</b>	<b>Fre. Dev. (Hz)</b>	<b>Deviation (ppm)</b>	<b>Result</b>
Normal	3.87	+20(Ref)	24	0.014	PASS
Normal		0	14	0.008	
Normal		+10	33	0.019	
Normal		+20	20	0.012	
Normal		+30	56	0.032	
Normal		+35	20	0.012	
High	4.45	+20	27	0.016	
BATT.ENDPOINT	3.00	+20	-17	-0.010	





LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	-15	-0.018	PASS
Normal		0	-59	-0.071	
Normal		+10	27	0.032	
Normal		+20	-50	-0.060	
Normal		+30	-50	-0.060	
Normal		+35	-32	-0.038	
High	4.45	+20	29	0.035	
BATT.ENDPOINT	3.00	+20	20	0.024	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	-53	-0.021	PASS
Normal		0	30	0.012	
Normal		+10	-26	-0.010	
Normal		+20	-43	-0.017	
Normal		+30	40	0.016	
Normal		+35	40	0.016	
High	4.45	+20	54	0.021	
BATT.ENDPOINT	3.00	+20	28	0.011	



<b>LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz</b>					
<b>Limit =Within Authorized Band</b>					
<b>Voltage (%)</b>	<b>Power (VDC)</b>	<b>Temp(°C)</b>	<b>Fre. Dev. (Hz)</b>	<b>Deviation (ppm)</b>	<b>Result</b>
Normal	3.87	+20(Ref)	55	0.078	PASS
Normal		0	18	0.025	
Normal		+10	56	0.079	
Normal		+20	16	0.023	
Normal		+30	-58	-0.082	
Normal		+35	47	0.066	
High	4.45	+20	33	0.047	
BATT.ENDPOINT	3.00	+20	29	0.041	

<b>LTE Band 17, QPSK, Channel 23790, Frequency 710MHz</b>					
<b>Limit =Within Authorized Band</b>					
<b>Voltage (%)</b>	<b>Power (VDC)</b>	<b>Temp(°C)</b>	<b>Fre. Dev. (Hz)</b>	<b>Deviation (ppm)</b>	<b>Result</b>
Normal	3.87	+20(Ref)	27	0.038	PASS
Normal		0	34	0.048	
Normal		+10	30	0.042	
Normal		+20	-53	-0.075	
Normal		+30	22	0.031	
Normal		+35	39	0.055	
High	4.45	+20	22	0.031	
BATT.ENDPOINT	3.00	+20	41	0.058	





LTE Band 26, QPSK, Channel 26915, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	17	0.020	PASS
Normal		0	-22	-0.026	
Normal		+10	44	0.053	
Normal		+20	-42	-0.050	
Normal		+30	20	0.024	
Normal		+35	20	0.024	
High	4.45	+20	51	0.061	
BATT.ENDPOINT	3.00	+20	52	0.062	

LTE Band 38, QPSK, Channel 38000, Frequency 2595MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	22	0.008	PASS
Normal		0	36	0.014	
Normal		+10	49	0.019	
Normal		+20	53	0.020	
Normal		+30	47	0.018	
Normal		+35	50	0.019	
High	4.45	+20	39	0.015	
BATT.ENDPOINT	3.00	+20	-39	-0.015	



LTE Band 41, QPSK, Channel 40620, Frequency 2593.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	42	0.016	PASS
Normal		0	-33	-0.013	
Normal		+10	-30	-0.012	
Normal		+20	-51	-0.020	
Normal		+30	-21	-0.008	
Normal		+35	-37	-0.014	
High	4.45	+20	44	0.017	
BATT.ENDPOINT	3.00	+20	41	0.016	

LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.87	+20(Ref)	21	0.012	PASS
Normal		0	41	0.023	
Normal		+10	44	0.025	
Normal		+20	-32	-0.018	
Normal		+30	50	0.029	
Normal		+35	38	0.022	
High	4.45	+20	19	0.011	
BATT.ENDPOINT	3.00	+20	-21	-0.012	

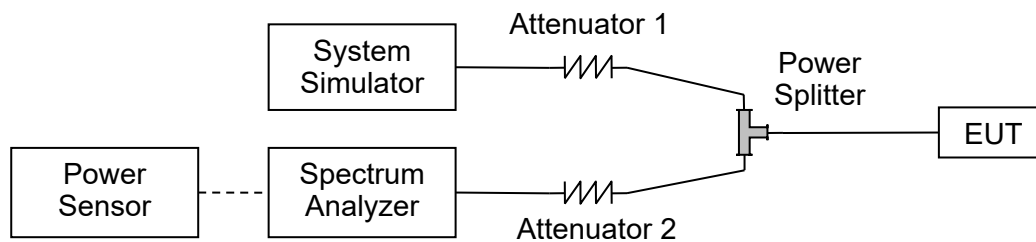


## 2.4. Peak to Average Ratio

### 2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

### 2.4.2. Test Description



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%.



LTE Band 2					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	7.06	<=13	PASS
	Low	16QAM	6.78	<=13	PASS
	Low	64QAM	6.6	<=13	PASS
	Mid	QPSK	5.92	<=13	PASS
	Mid	16QAM	6.67	<=13	PASS
	Mid	64QAM	6.6	<=13	PASS
	High	QPSK	6.08	<=13	PASS
	High	16QAM	6.86	<=13	PASS
	High	64QAM	6.7	<=13	PASS
3	Low	QPSK	5.96	<=13	PASS
	Low	16QAM	6.82	<=13	PASS
	Low	64QAM	6.83	<=13	PASS
	Mid	QPSK	5.97	<=13	PASS
	Mid	16QAM	6.76	<=13	PASS
	Mid	64QAM	6.83	<=13	PASS
	High	QPSK	6.09	<=13	PASS
	High	16QAM	6.89	<=13	PASS
	High	64QAM	6.89	<=13	PASS
5	Low	QPSK	5.96	<=13	PASS
	Low	16QAM	6.63	<=13	PASS
	Low	64QAM	6.82	<=13	PASS
	Mid	QPSK	5.86	<=13	PASS
	Mid	16QAM	6.6	<=13	PASS
	Mid	64QAM	6.79	<=13	PASS
	High	QPSK	5.93	<=13	PASS
	High	16QAM	6.55	<=13	PASS
	High	64QAM	6.84	<=13	PASS
10	Low	QPSK	5.94	<=13	PASS
	Low	16QAM	6.59	<=13	PASS
	Low	64QAM	6.85	<=13	PASS
	Mid	QPSK	5.9	<=13	PASS
	Mid	16QAM	6.58	<=13	PASS
	Mid	64QAM	6.81	<=13	PASS
	High	QPSK	5.79	<=13	PASS
	High	16QAM	6.55	<=13	PASS
	High	64QAM	6.74	<=13	PASS





15	Low	QPSK	5.96	<=13	PASS
	Low	16QAM	6.67	<=13	PASS
	Low	64QAM	6.93	<=13	PASS
	Mid	QPSK	6.04	<=13	PASS
	Mid	16QAM	6.68	<=13	PASS
	Mid	64QAM	6.94	<=13	PASS
	High	QPSK	5.69	<=13	PASS
	High	16QAM	6.51	<=13	PASS
	High	64QAM	6.85	<=13	PASS
20	Low	QPSK	5.86	<=13	PASS
	Low	16QAM	6.73	<=13	PASS
	Low	64QAM	6.88	<=13	PASS
	Mid	QPSK	5.89	<=13	PASS
	Mid	16QAM	6.68	<=13	PASS
	Mid	64QAM	6.88	<=13	PASS
	High	QPSK	5.65	<=13	PASS
	High	16QAM	6.55	<=13	PASS
	High	64QAM	6.81	<=13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.84	<=13	PASS
	Low	16QAM	6.67	<=13	PASS
	Low	64QAM	6.74	<=13	PASS
	Mid	QPSK	6.18	<=13	PASS
	Mid	16QAM	6.81	<=13	PASS
	Mid	64QAM	6.89	<=13	PASS
	High	QPSK	5.38	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.42	<=13	PASS
3	Low	QPSK	5.94	<=13	PASS
	Low	16QAM	6.73	<=13	PASS
	Low	64QAM	6.73	<=13	PASS
	Mid	QPSK	6.03	<=13	PASS
	Mid	16QAM	6.89	<=13	PASS
	Mid	64QAM	6.87	<=13	PASS
	High	QPSK	5.53	<=13	PASS
	High	16QAM	6.36	<=13	PASS
	High	64QAM	6.5	<=13	PASS
5	Low	QPSK	5.86	<=13	PASS
	Low	16QAM	6.5	<=13	PASS
	Low	64QAM	6.68	<=13	PASS
	Mid	QPSK	5.89	<=13	PASS
	Mid	16QAM	6.59	<=13	PASS
	Mid	64QAM	6.73	<=13	PASS
	High	QPSK	5.52	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.51	<=13	PASS
10	Low	QPSK	5.84	<=13	PASS
	Low	16QAM	6.48	<=13	PASS
	Low	64QAM	6.78	<=13	PASS
	Mid	QPSK	5.95	<=13	PASS
	Mid	16QAM	6.56	<=13	PASS
	Mid	64QAM	6.64	<=13	PASS
	High	QPSK	5.49	<=13	PASS
	High	16QAM	6.17	<=13	PASS
	High	64QAM	6.47	<=13	PASS





15	Low	QPSK	5.83	<=13	PASS
	Low	16QAM	6.55	<=13	PASS
	Low	64QAM	6.78	<=13	PASS
	Mid	QPSK	5.86	<=13	PASS
	Mid	16QAM	6.59	<=13	PASS
	Mid	64QAM	6.83	<=13	PASS
	High	QPSK	5.36	<=13	PASS
	High	16QAM	6.07	<=13	PASS
	High	64QAM	6.45	<=13	PASS
20	Low	QPSK	5.73	<=13	PASS
	Low	16QAM	6.58	<=13	PASS
	Low	64QAM	6.73	<=13	PASS
	Mid	QPSK	5.79	<=13	PASS
	Mid	16QAM	6.55	<=13	PASS
	Mid	64QAM	6.82	<=13	PASS
	High	QPSK	5.43	<=13	PASS
	High	16QAM	6.35	<=13	PASS
	High	64QAM	6.62	<=13	PASS

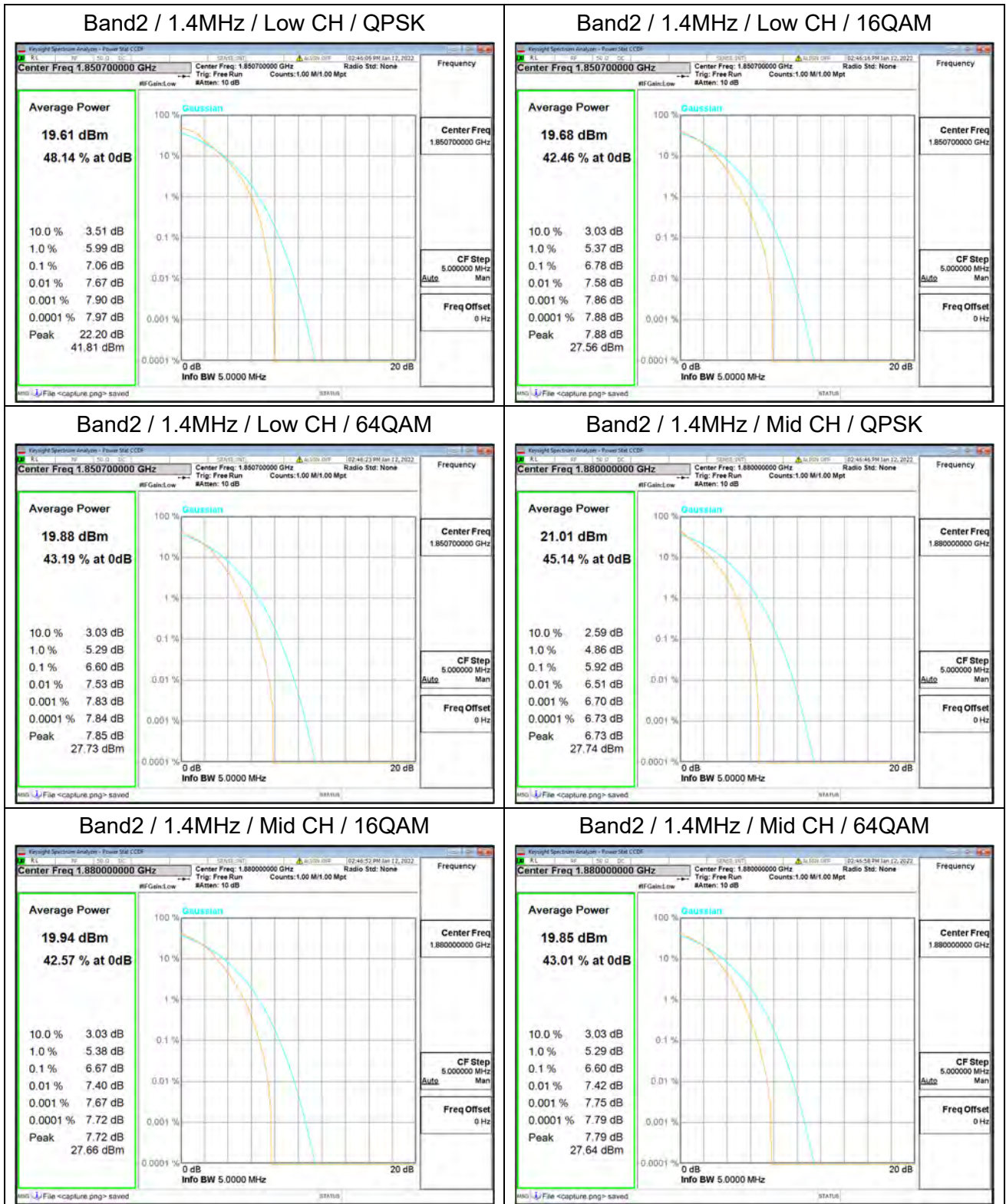


LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.7	<=13	PASS
	Low	16QAM	6.42	<=13	PASS
	Low	64QAM	6.69	<=13	PASS
	Mid	QPSK	5.44	<=13	PASS
	Mid	16QAM	6.22	<=13	PASS
	Mid	64QAM	6.53	<=13	PASS
	High	QPSK	5.37	<=13	PASS
	High	16QAM	6.22	<=13	PASS
	High	64QAM	6.5	<=13	PASS
3	Low	QPSK	5.72	<=13	PASS
	Low	16QAM	6.65	<=13	PASS
	Low	64QAM	6.71	<=13	PASS
	Mid	QPSK	5.51	<=13	PASS
	Mid	16QAM	6.41	<=13	PASS
	Mid	64QAM	6.56	<=13	PASS
	High	QPSK	5.59	<=13	PASS
	High	16QAM	6.45	<=13	PASS
	High	64QAM	6.57	<=13	PASS
5	Low	QPSK	5.71	<=13	PASS
	Low	16QAM	6.46	<=13	PASS
	Low	64QAM	6.75	<=13	PASS
	Mid	QPSK	5.56	<=13	PASS
	Mid	16QAM	6.25	<=13	PASS
	Mid	64QAM	6.56	<=13	PASS
	High	QPSK	5.6	<=13	PASS
	High	16QAM	6.4	<=13	PASS
	High	64QAM	6.59	<=13	PASS
10	Low	QPSK	5.73	<=13	PASS
	Low	16QAM	6.41	<=13	PASS
	Low	64QAM	6.67	<=13	PASS
	Mid	QPSK	5.57	<=13	PASS
	Mid	16QAM	6.24	<=13	PASS
	Mid	64QAM	6.45	<=13	PASS
	High	QPSK	5.71	<=13	PASS
	High	16QAM	6.41	<=13	PASS
	High	64QAM	6.69	<=13	PASS





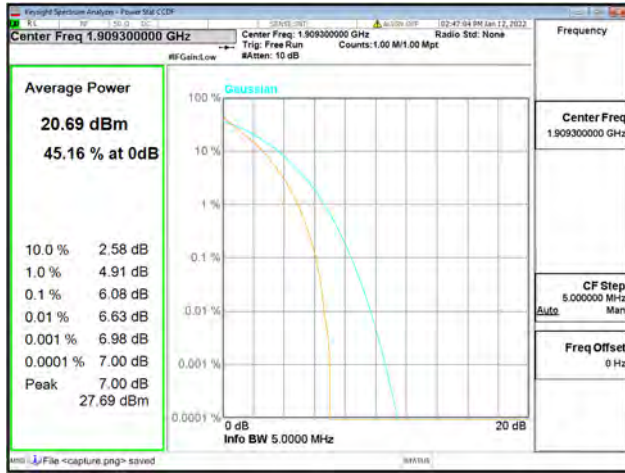
15	Low	QPSK	5.68	<=13	PASS
	Low	16QAM	6.54	<=13	PASS
	Low	64QAM	6.71	<=13	PASS
	Mid	QPSK	5.39	<=13	PASS
	Mid	16QAM	6.16	<=13	PASS
	Mid	64QAM	6.53	<=13	PASS
	High	QPSK	5.56	<=13	PASS
	High	16QAM	6.31	<=13	PASS
	High	64QAM	6.64	<=13	PASS
20	Low	QPSK	5.66	<=13	PASS
	Low	16QAM	6.53	<=13	PASS
	Low	64QAM	6.72	<=13	PASS
	Mid	QPSK	5.4	<=13	PASS
	Mid	16QAM	6.24	<=13	PASS
	Mid	64QAM	6.54	<=13	PASS
	High	QPSK	5.66	<=13	PASS
	High	16QAM	6.37	<=13	PASS
	High	64QAM	6.62	<=13	PASS



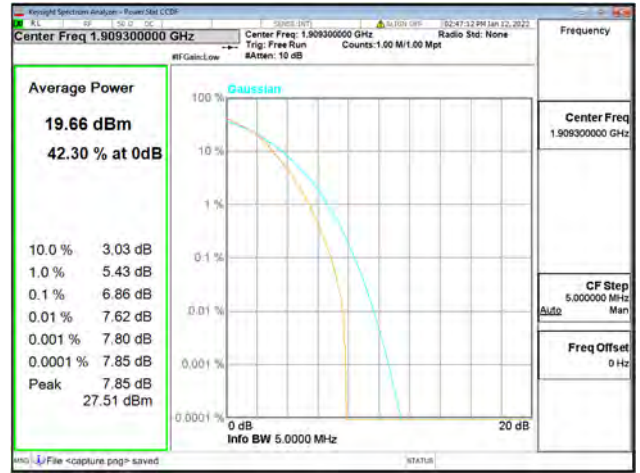




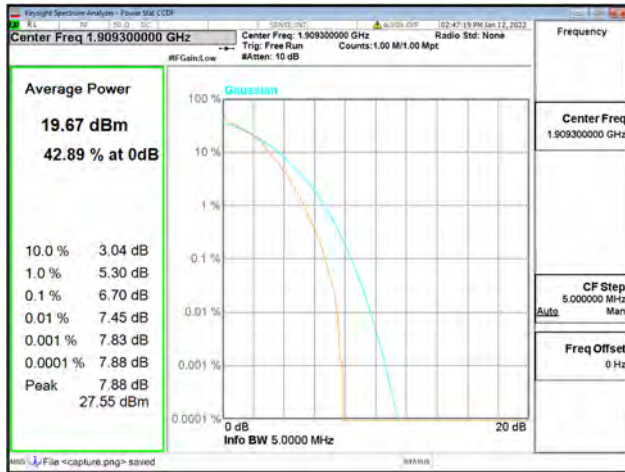
Band2 / 1.4MHz / High CH / QPSK



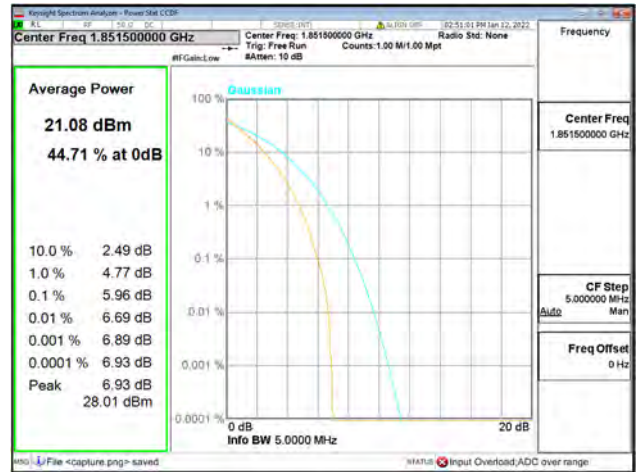
Band2 / 1.4MHz / High CH / 16QAM



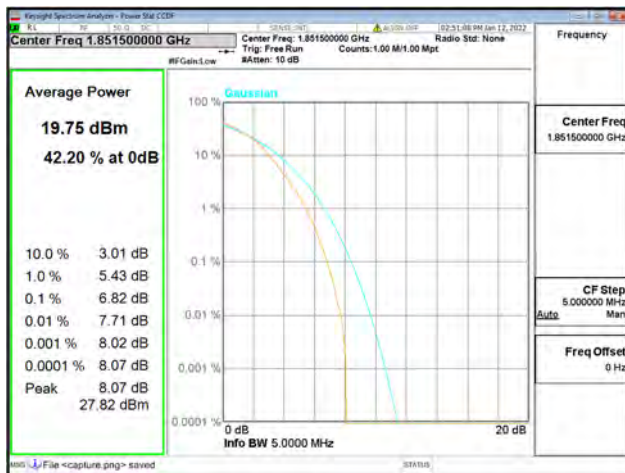
Band2 / 1.4MHz / High CH / 64QAM



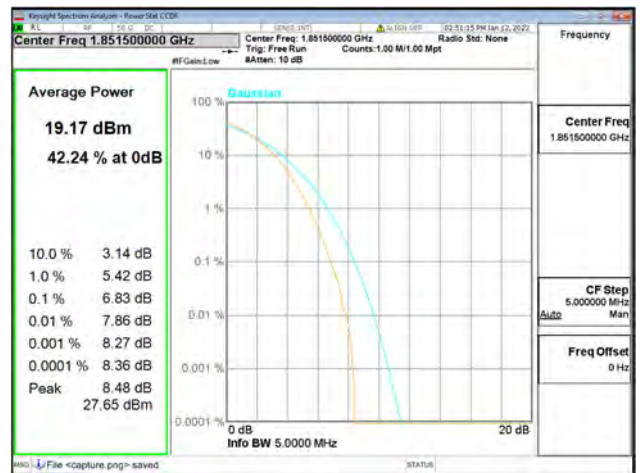
Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM

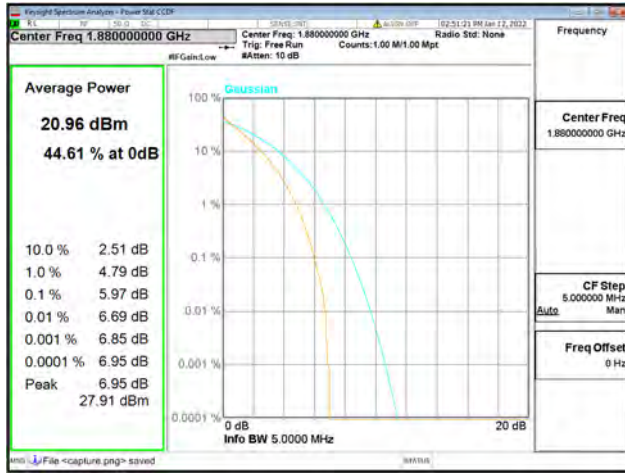


Band2 / 3MHz / Low CH / 64QAM

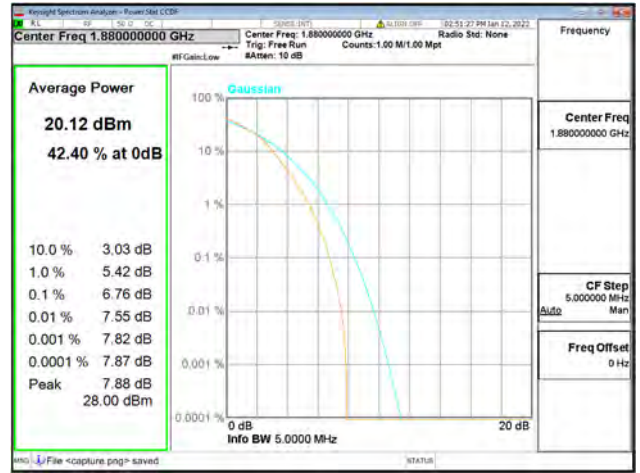




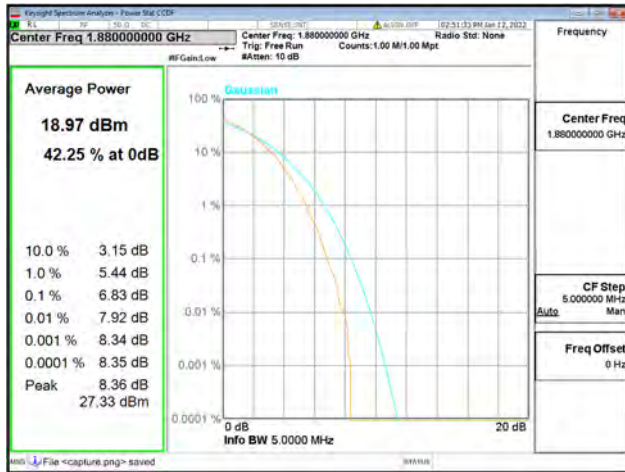
Band2 / 3MHz / Mid CH / QPSK



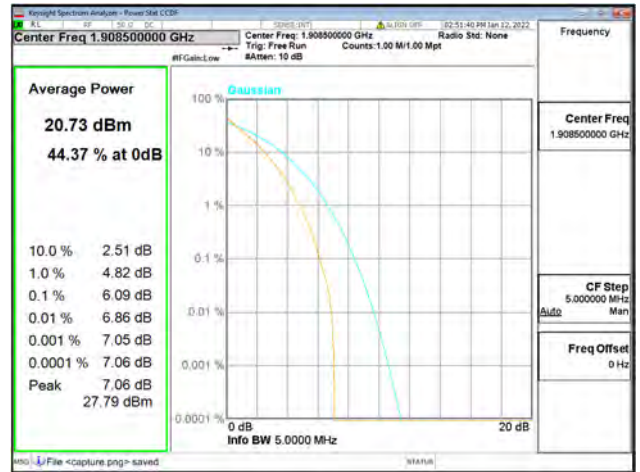
Band2 / 3MHz / Mid CH / 16QAM



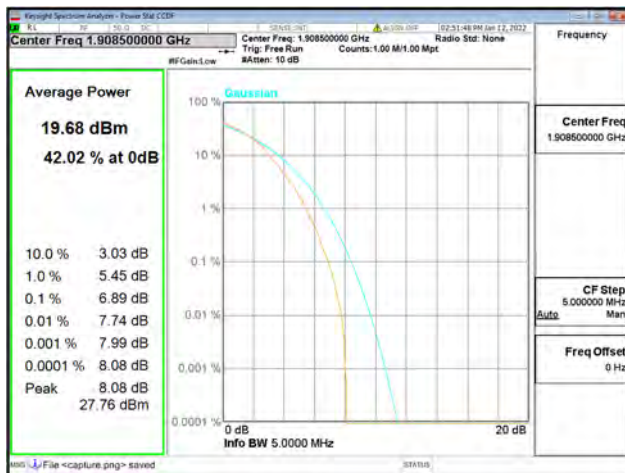
Band2 / 3MHz / Mid CH / 64QAM



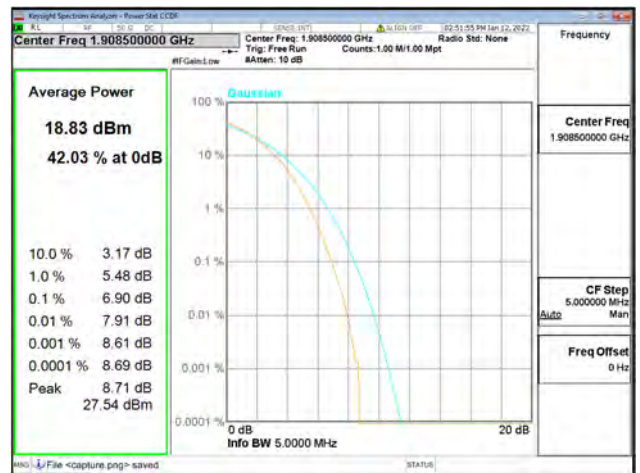
Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM



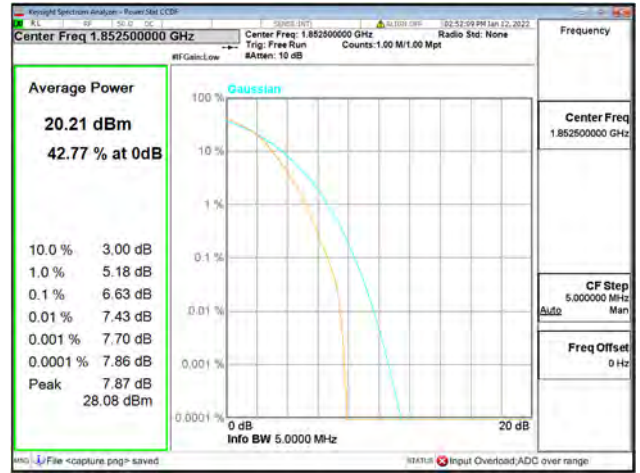




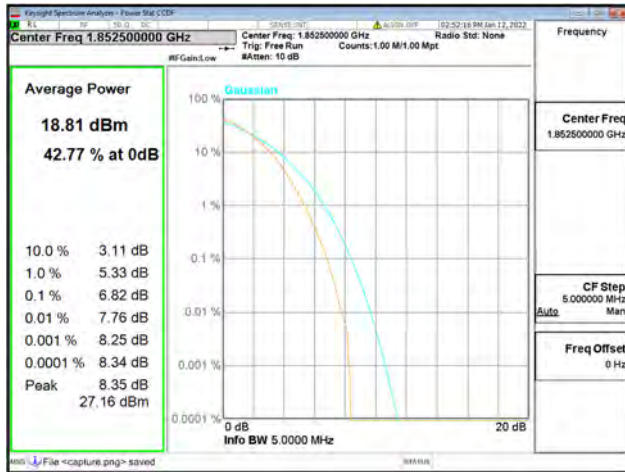
Band2 / 5MHz / Low CH / QPSK



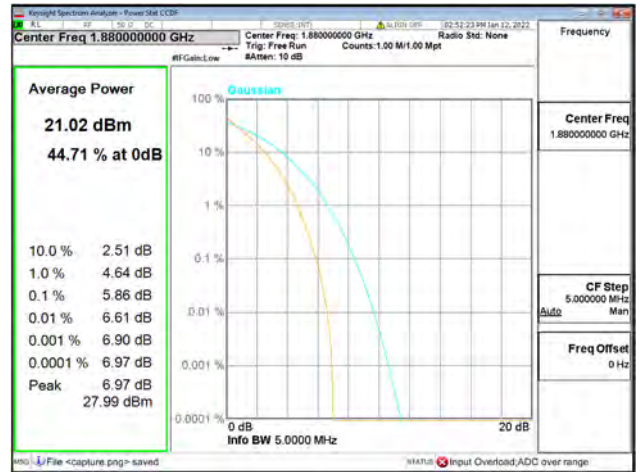
Band2 / 5MHz / Low CH / 16QAM



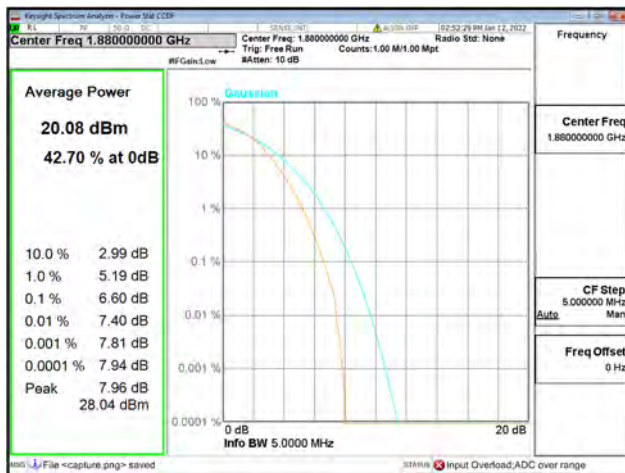
Band2 / 5MHz / Low CH / 64QAM



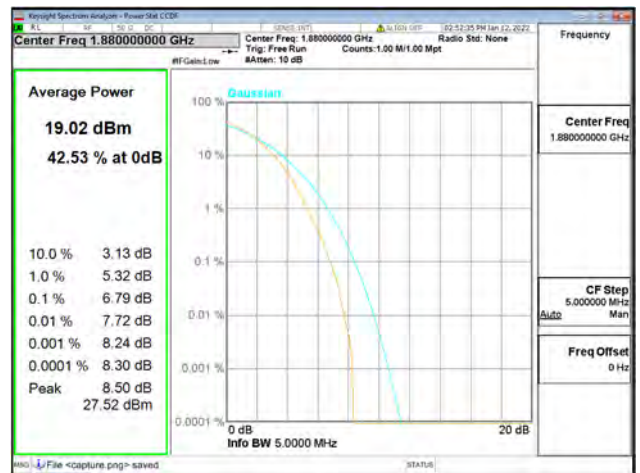
Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

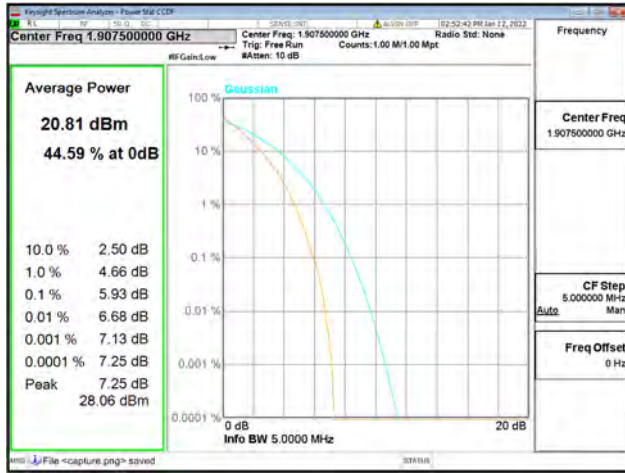


Band2 / 5MHz / Mid CH / 64QAM

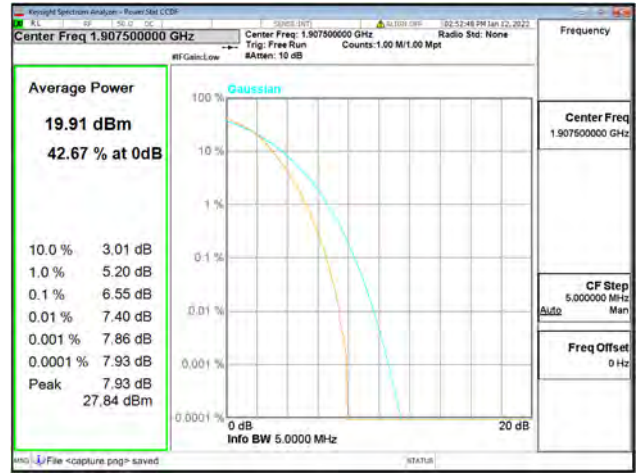




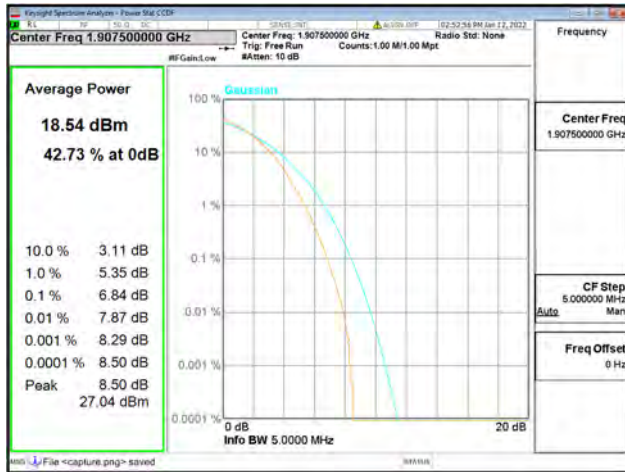
Band2 / 5MHz / High CH / QPSK



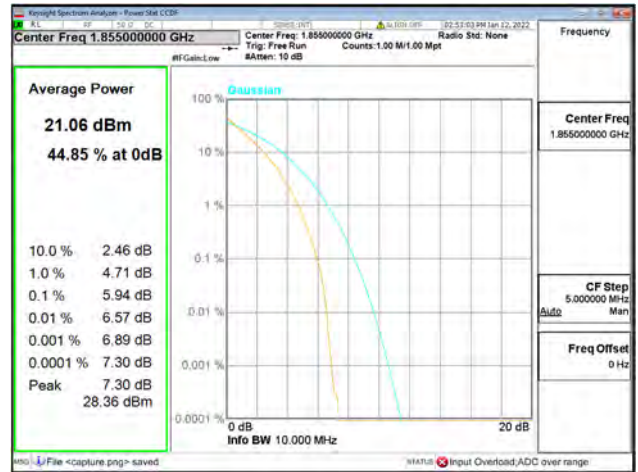
Band2 / 5MHz / High CH / 16QAM



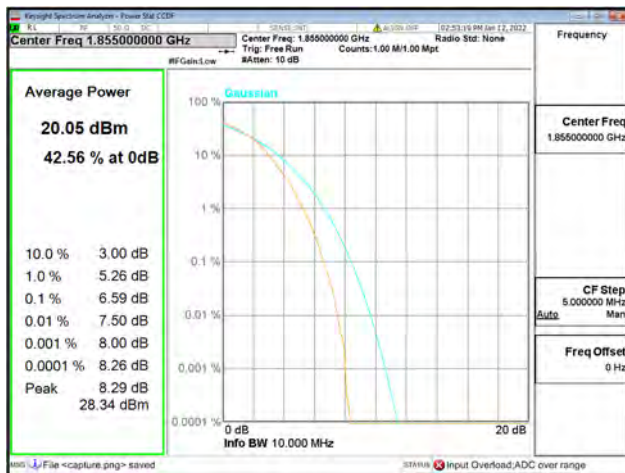
Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



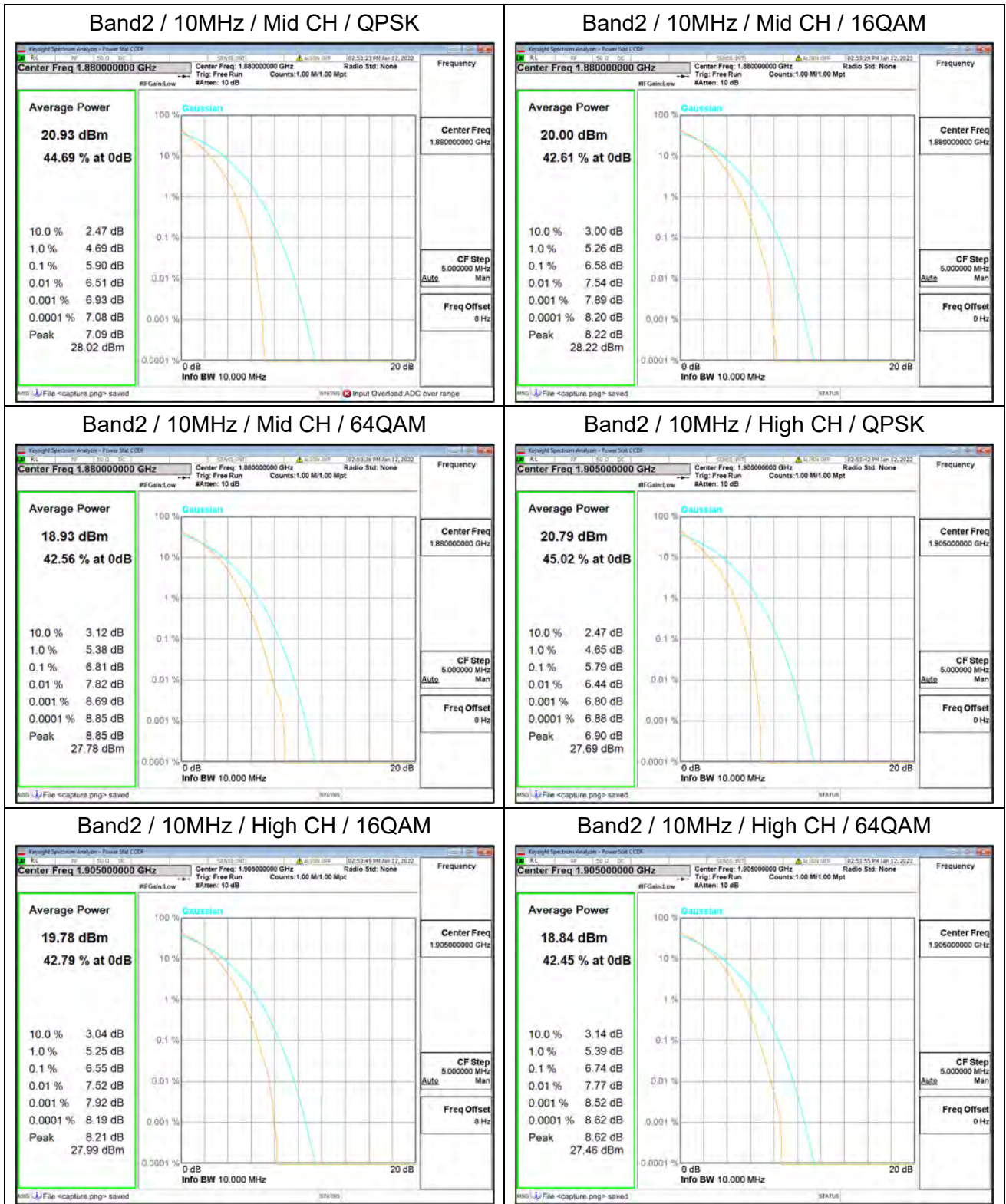
Band2 / 10MHz / Low CH / 16QAM



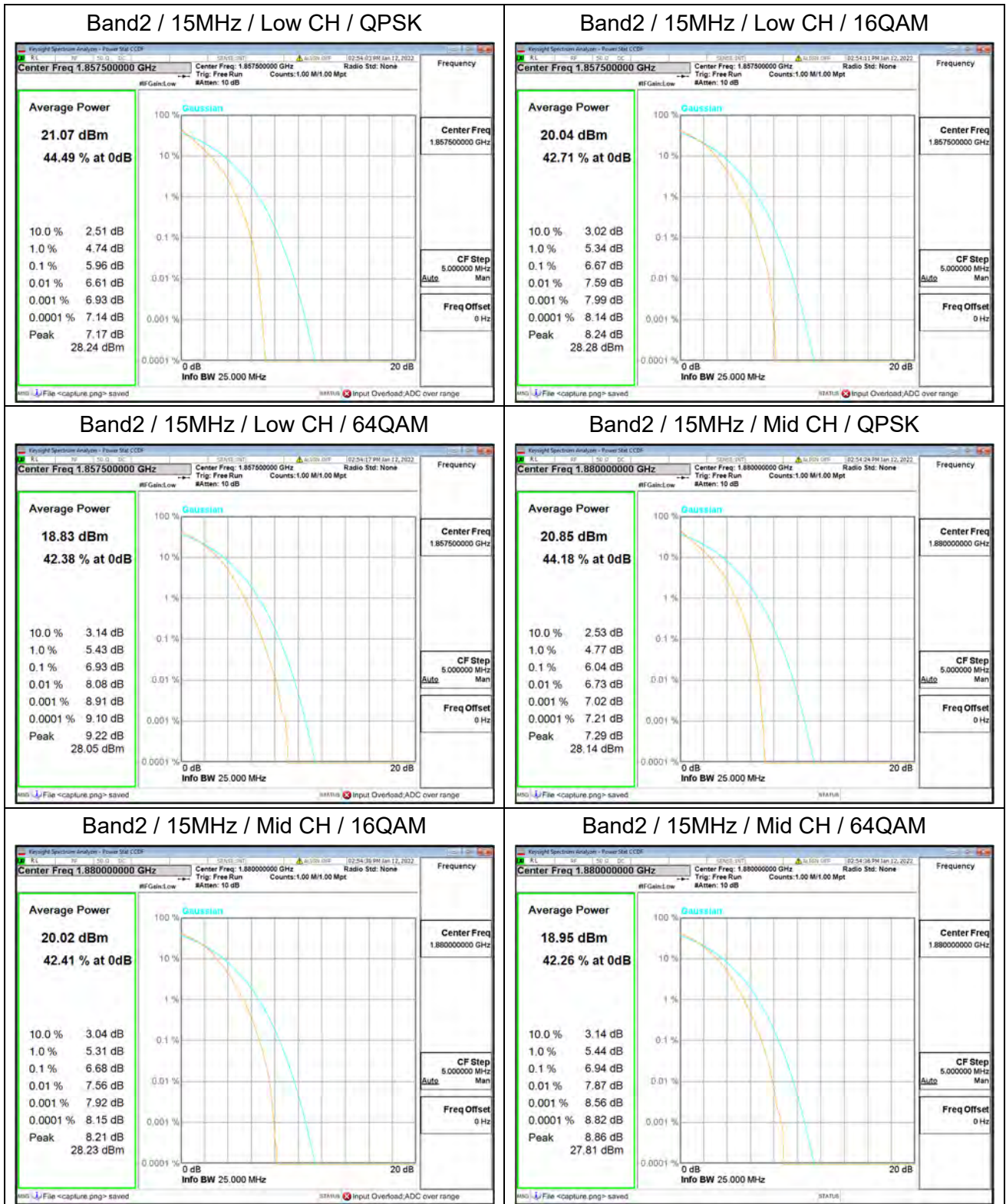
Band2 / 10MHz / Low CH / 64QAM





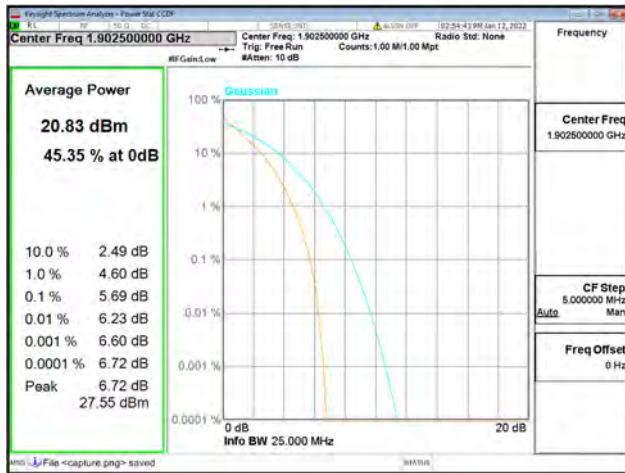




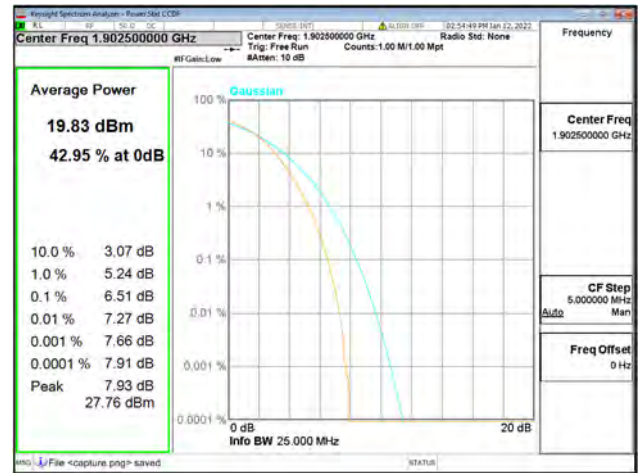




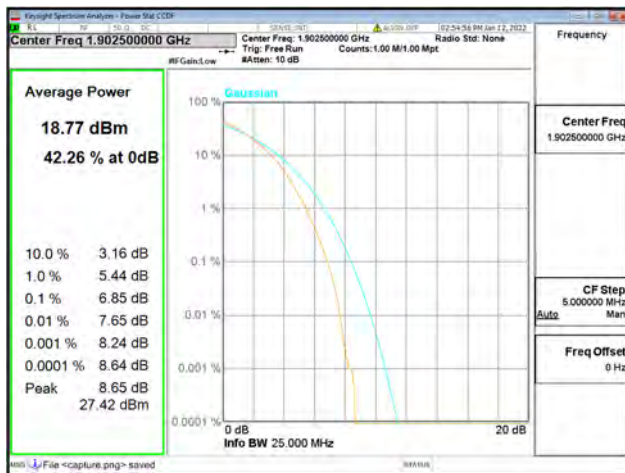
Band2 / 15MHz / High CH / QPSK



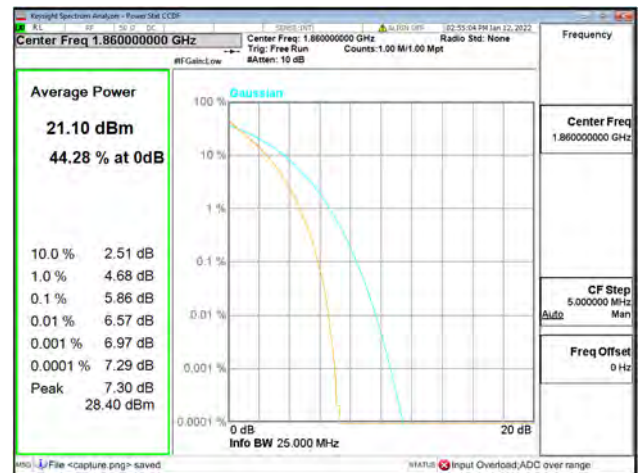
Band2 / 15MHz / High CH / 16QAM



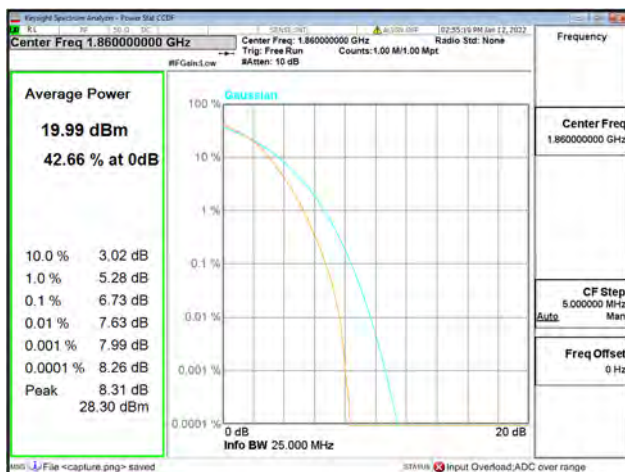
Band2 / 15MHz / High CH / 64QAM



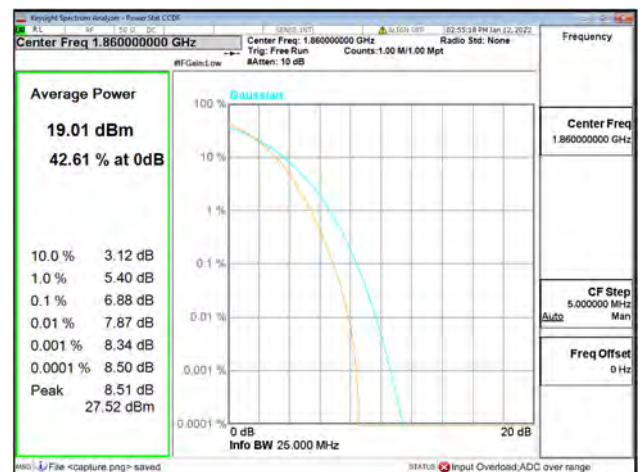
Band2 / 20MHz / Low CH / QPSK



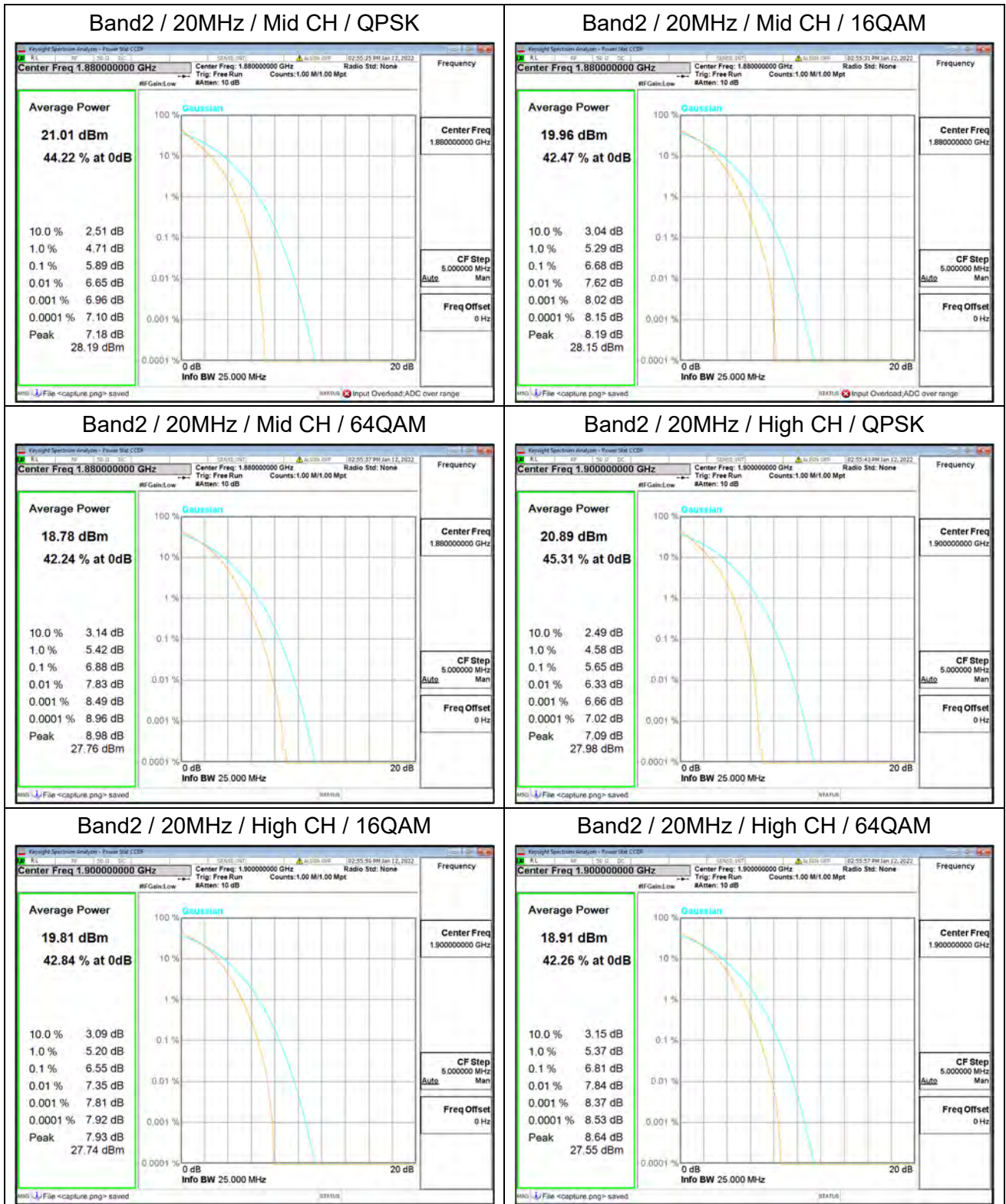
Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Low CH / 64QAM



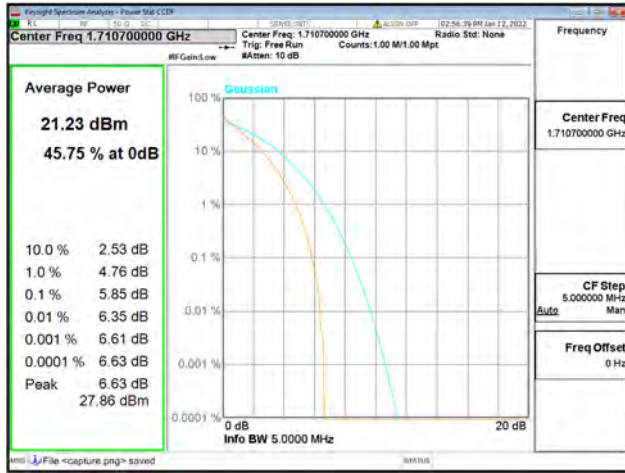




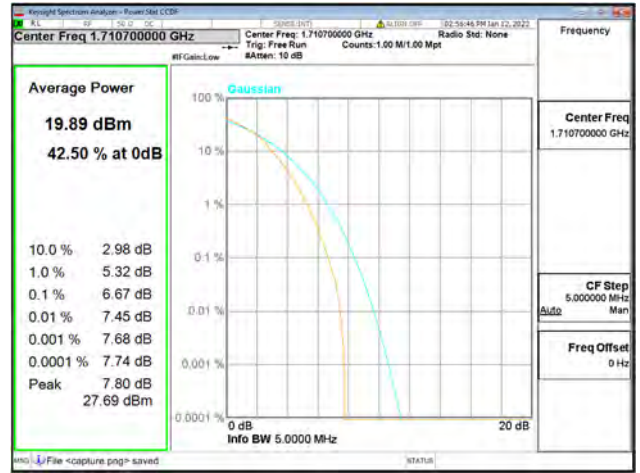




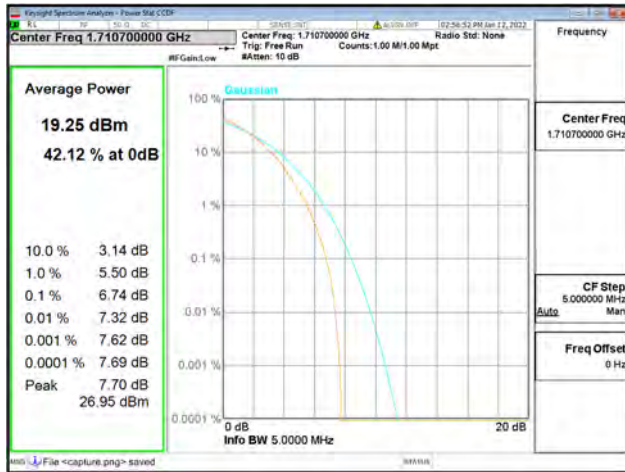
Band4 / 1.4MHz / Low CH / QPSK



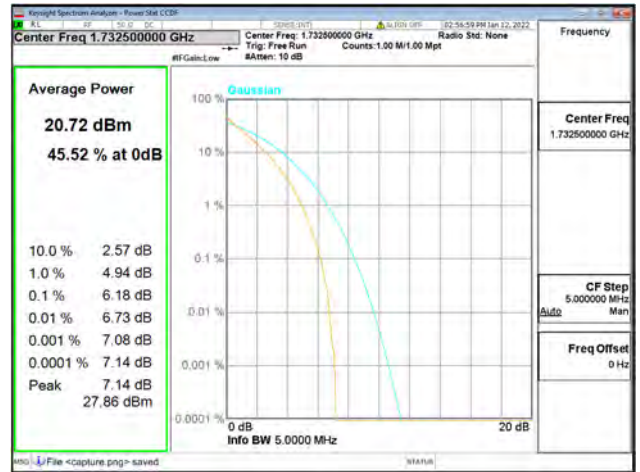
Band4 / 1.4MHz / Low CH / 16QAM



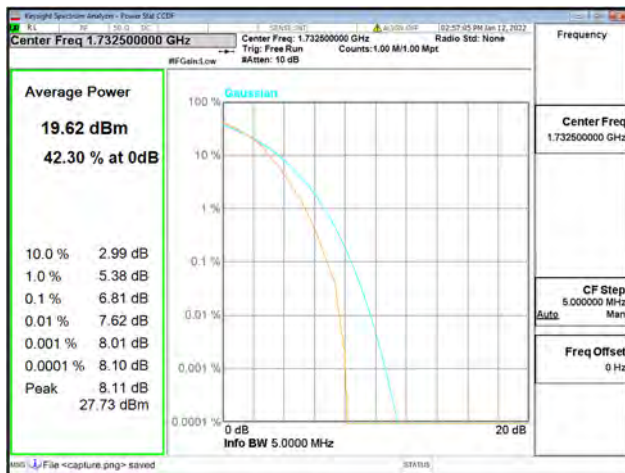
Band4 / 1.4MHz / Low CH / 64QAM



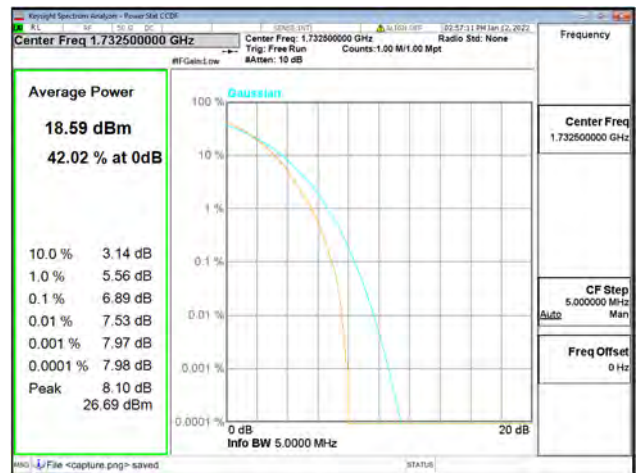
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

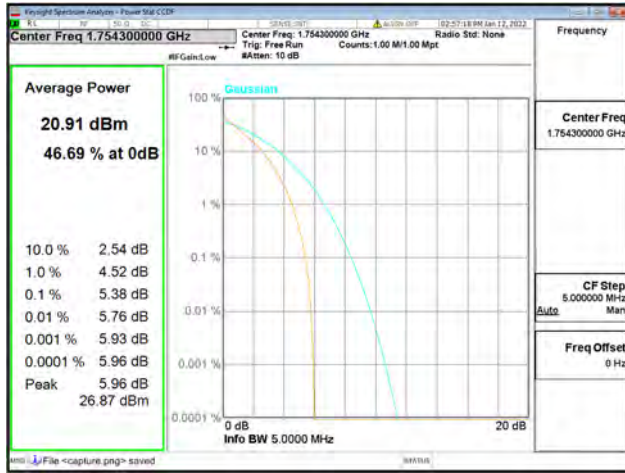


Band4 / 1.4MHz / Mid CH / 64QAM

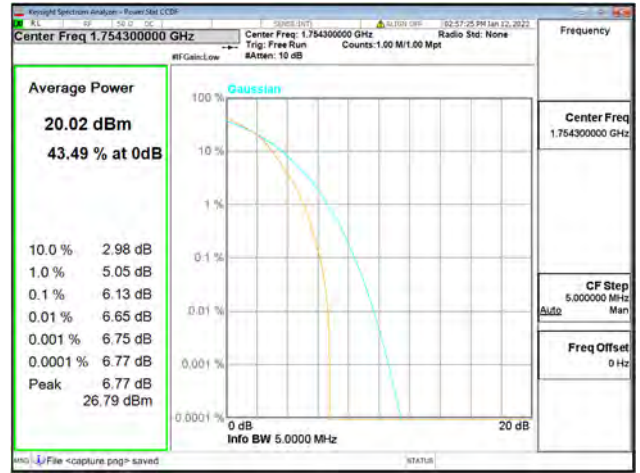




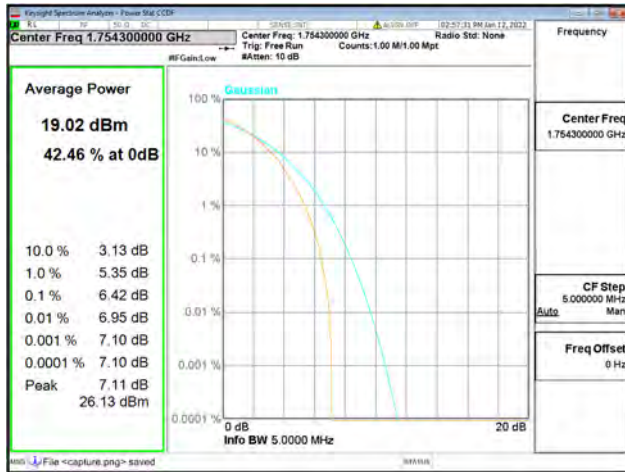
Band4 / 1.4MHz / High CH / QPSK



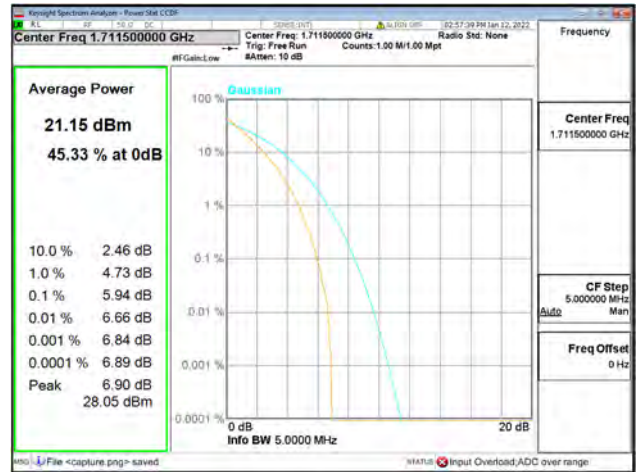
Band4 / 1.4MHz / High CH / 16QAM



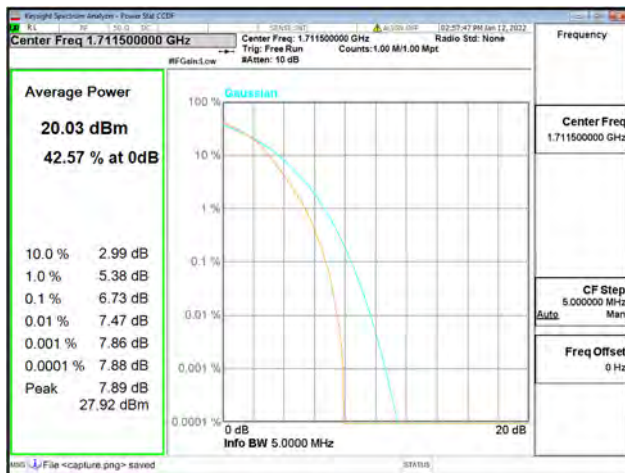
Band4 / 1.4MHz / High CH / 64QAM



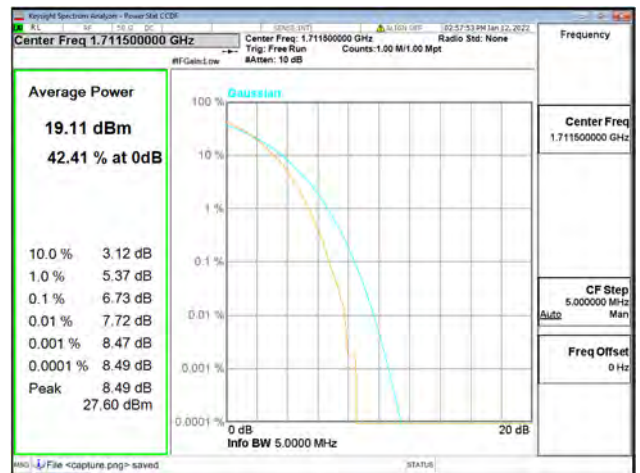
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM



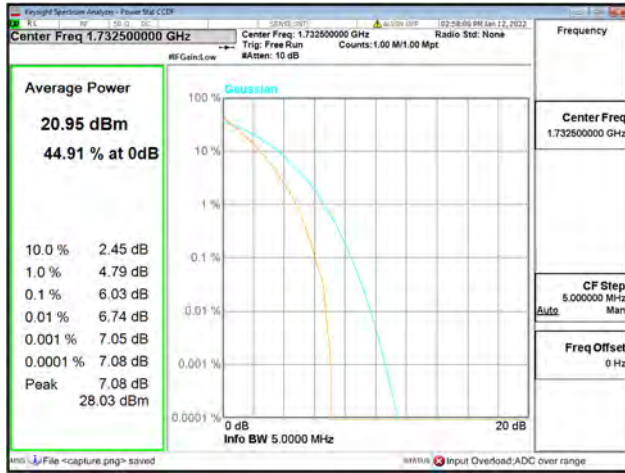
Band4 / 3MHz / Low CH / 64QAM



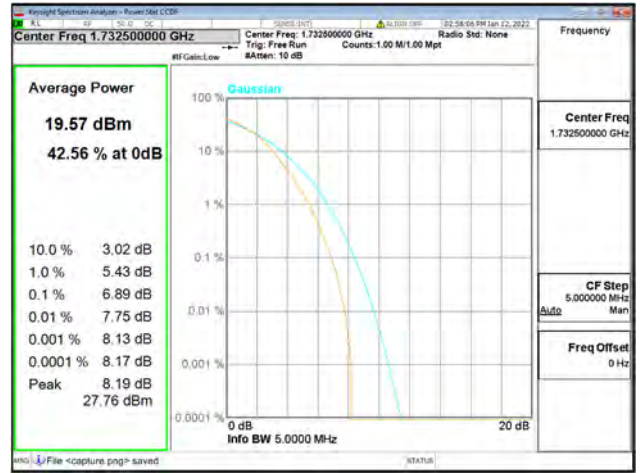




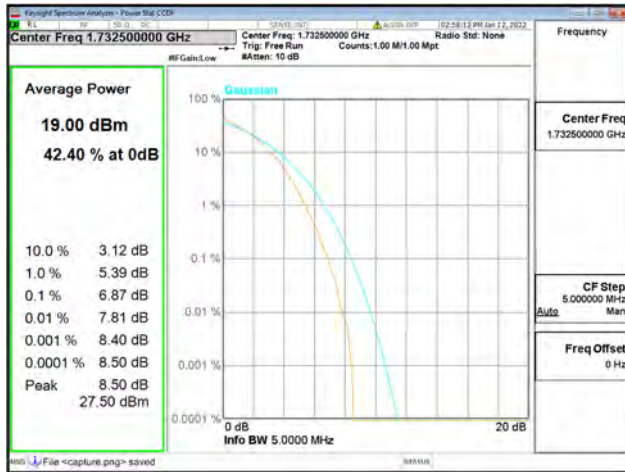
Band4 / 3MHz / Mid CH / QPSK



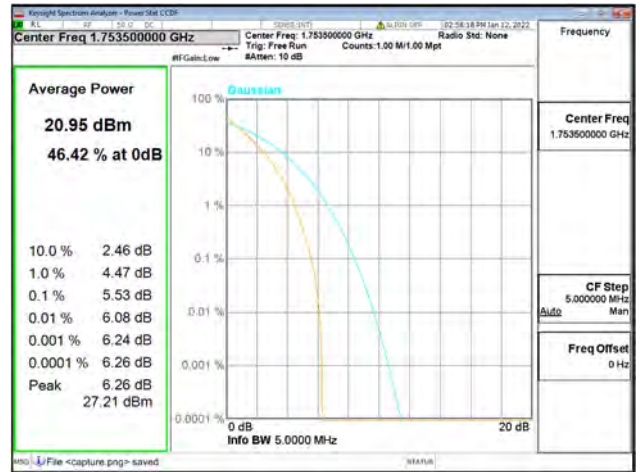
Band4 / 3MHz / Mid CH / 16QAM



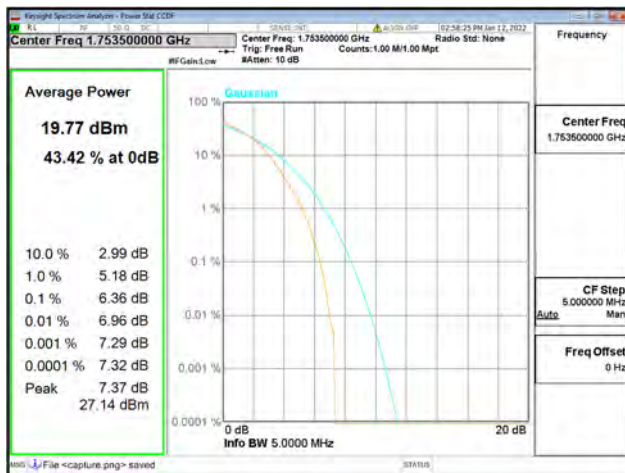
Band4 / 3MHz / Mid CH / 64QAM



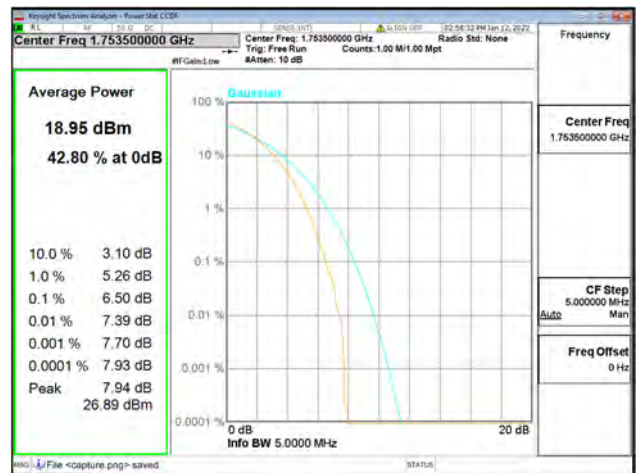
Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM



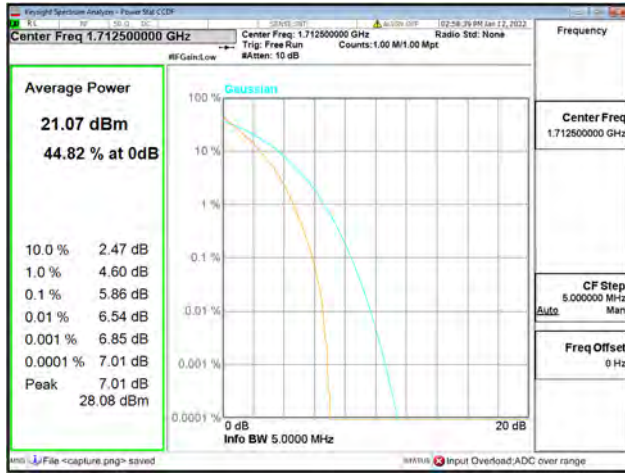
Band4 / 3MHz / High CH / 64QAM



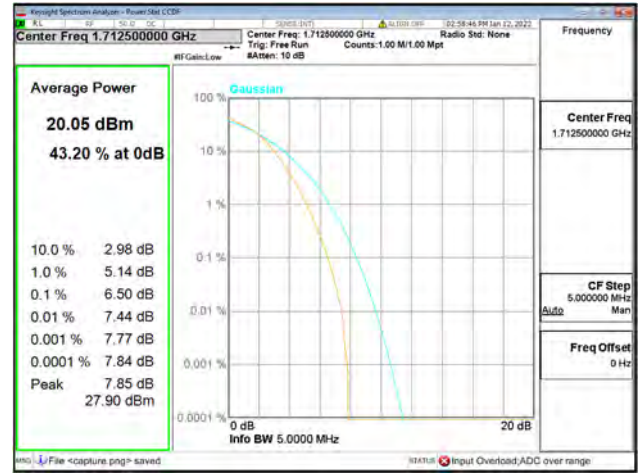




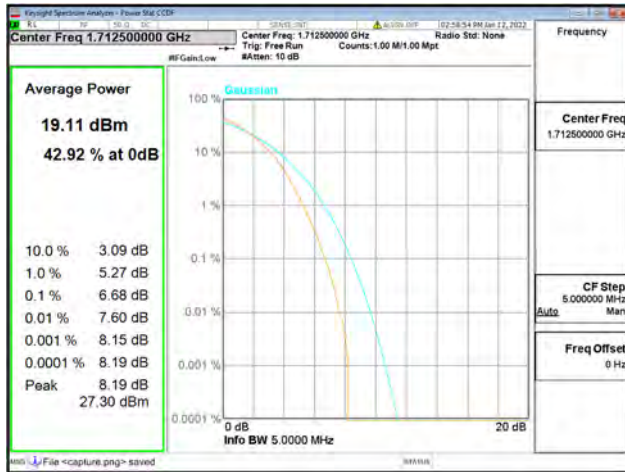
Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



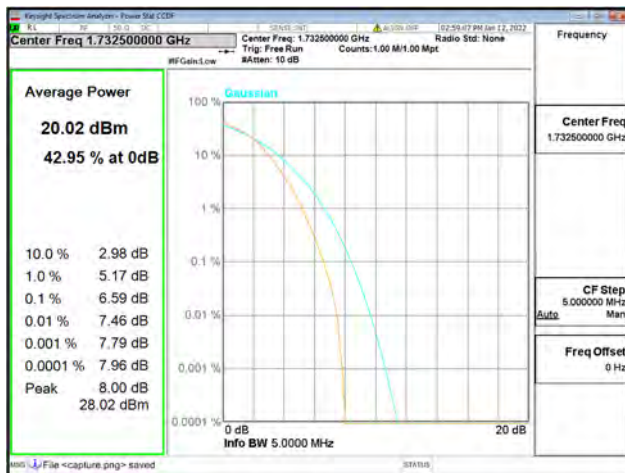
Band4 / 5MHz / Low CH / 64QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

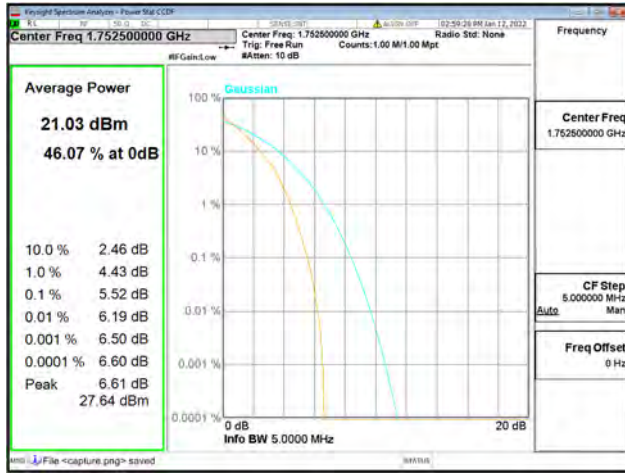


Band4 / 5MHz / Mid CH / 64QAM

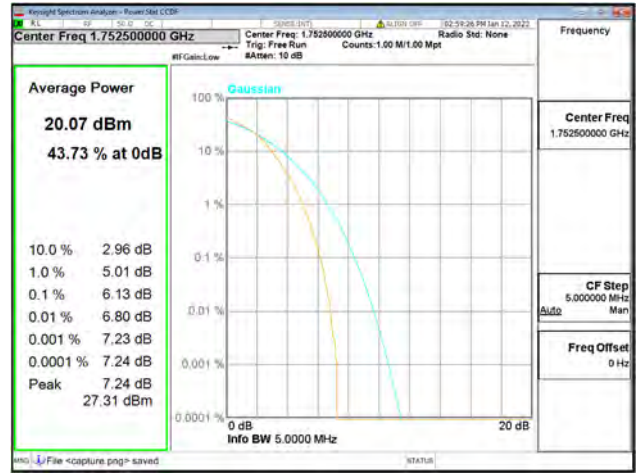




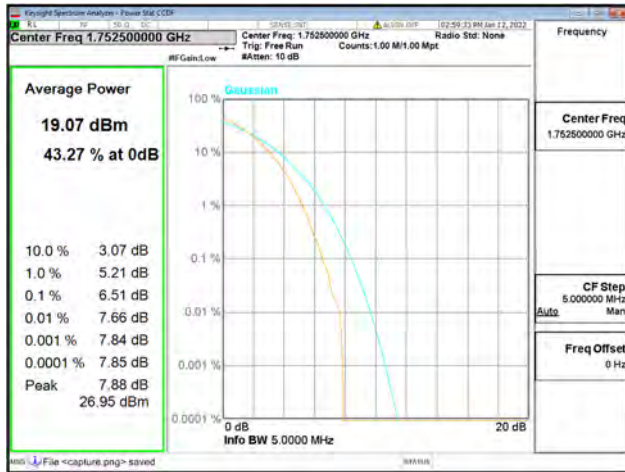
Band4 / 5MHz / High CH / QPSK



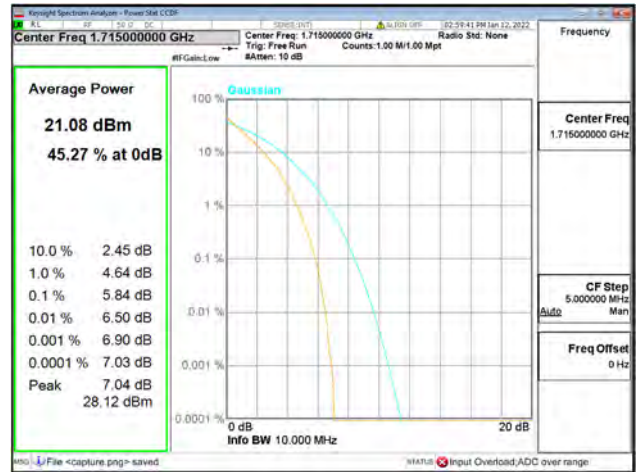
Band4 / 5MHz / High CH / 16QAM



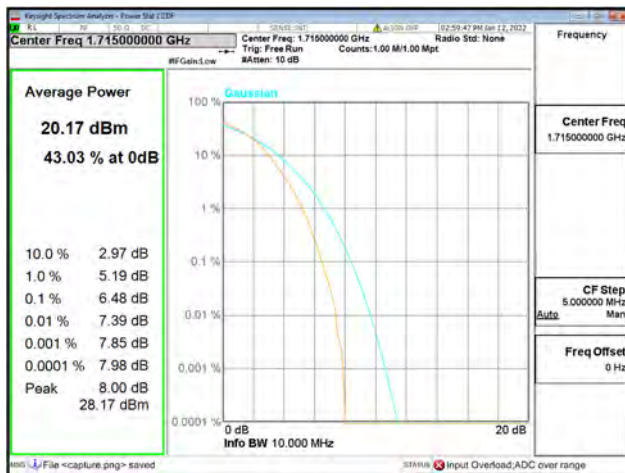
Band4 / 5MHz / High CH / 64QAM



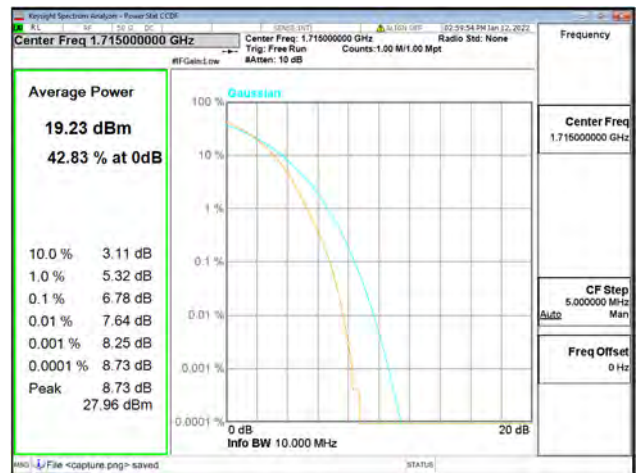
Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM



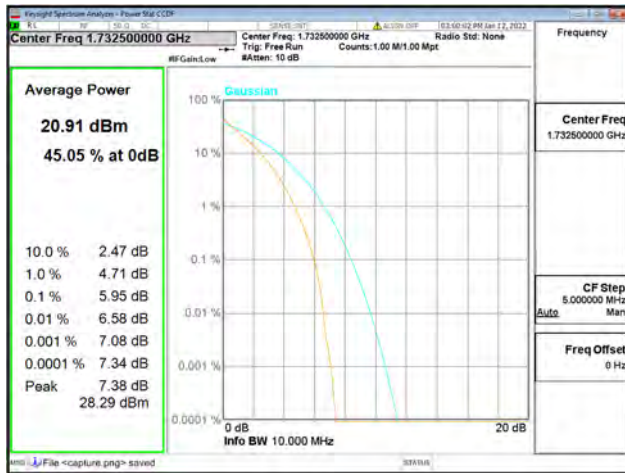
Band4 / 10MHz / Low CH / 64QAM



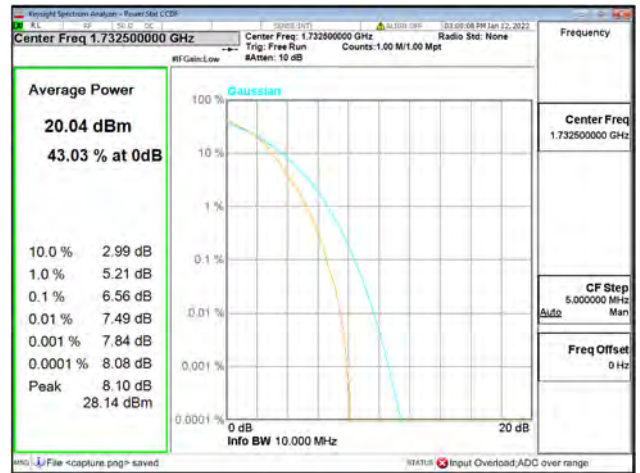




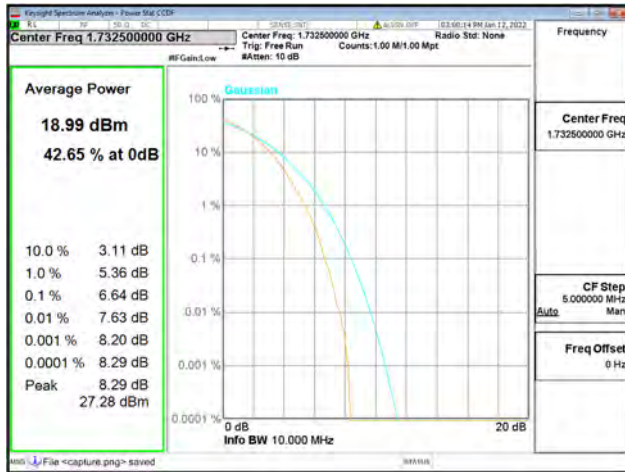
Band4 / 10MHz / Mid CH / QPSK



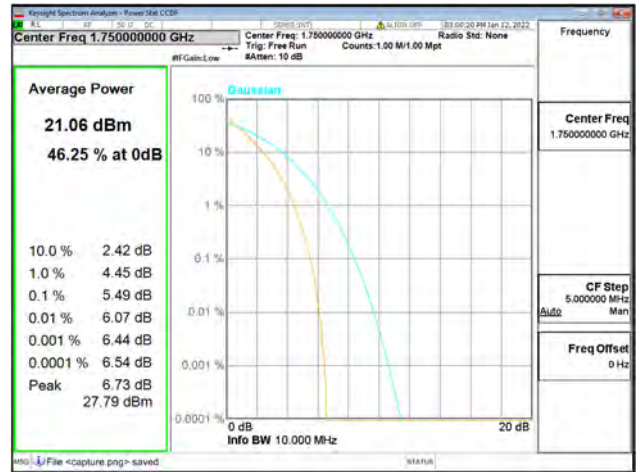
Band4 / 10MHz / Mid CH / 16QAM



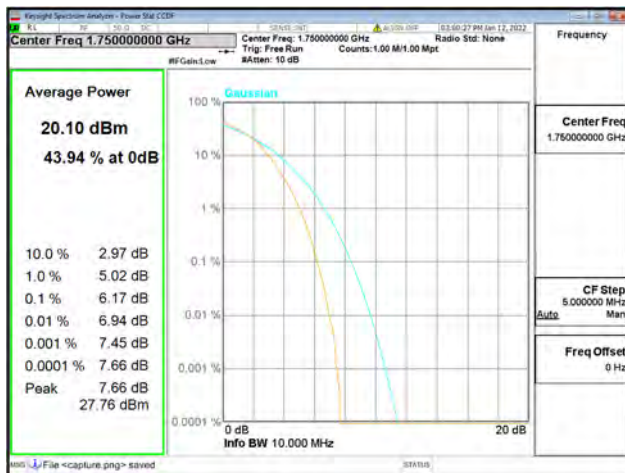
Band4 / 10MHz / Mid CH / 64QAM



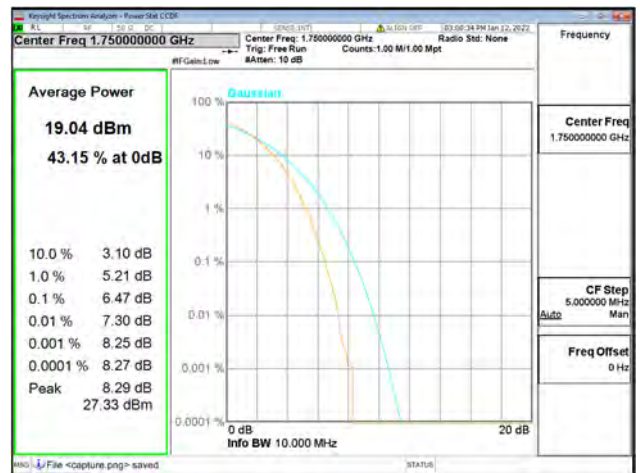
Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

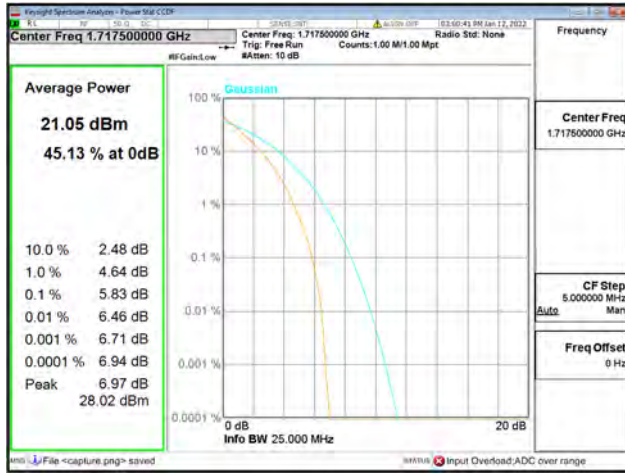


Band4 / 10MHz / High CH / 64QAM

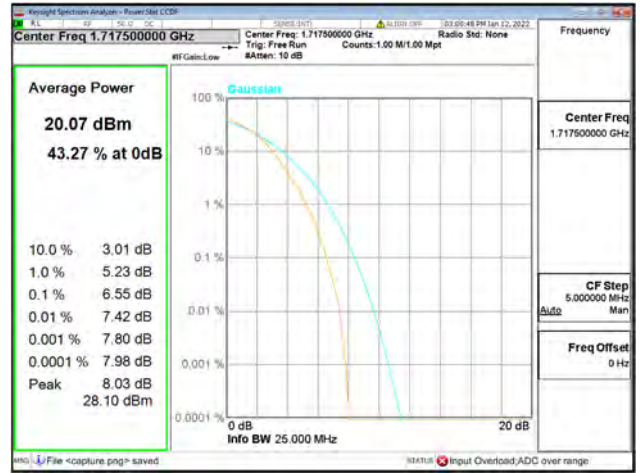




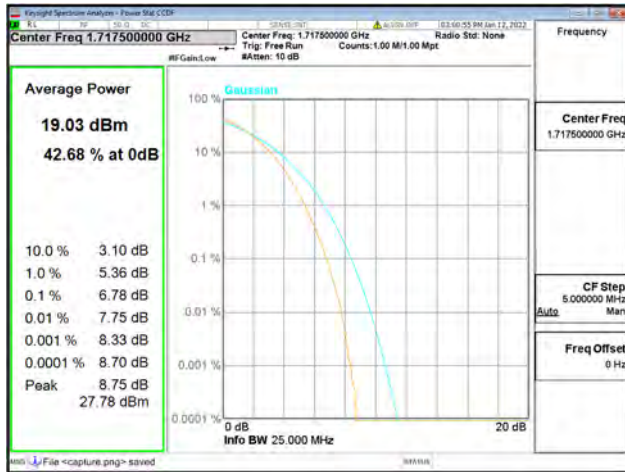
Band4 / 15MHz / Low CH / QPSK



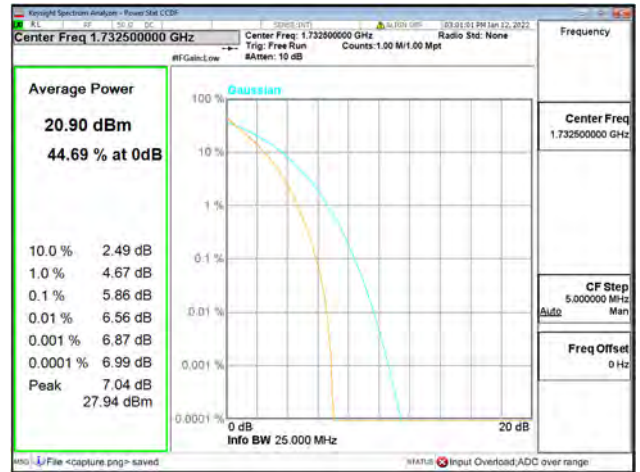
Band4 / 15MHz / Low CH / 16QAM



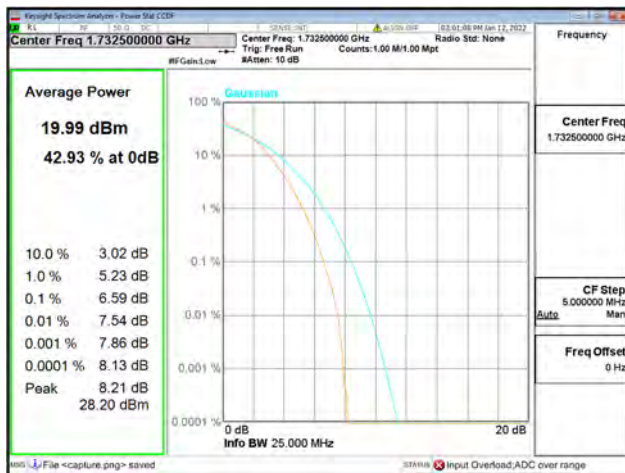
Band4 / 15MHz / Low CH / 64QAM



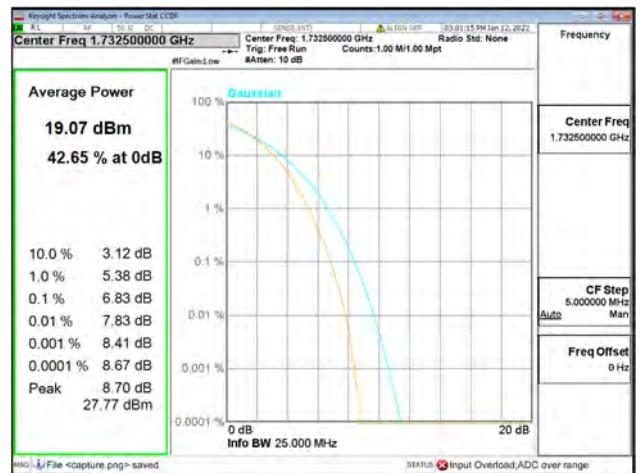
Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM



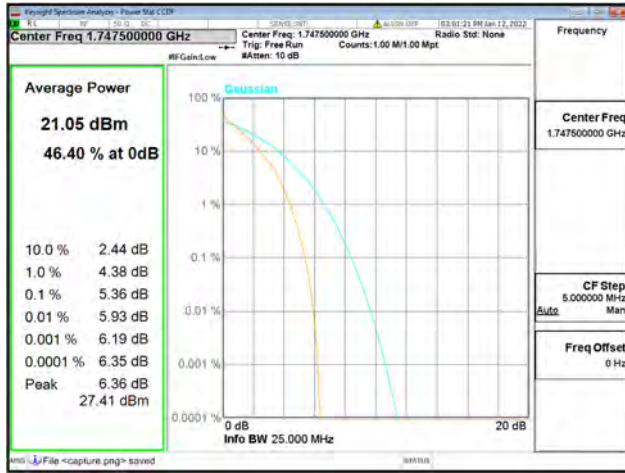
Band4 / 15MHz / Mid CH / 64QAM



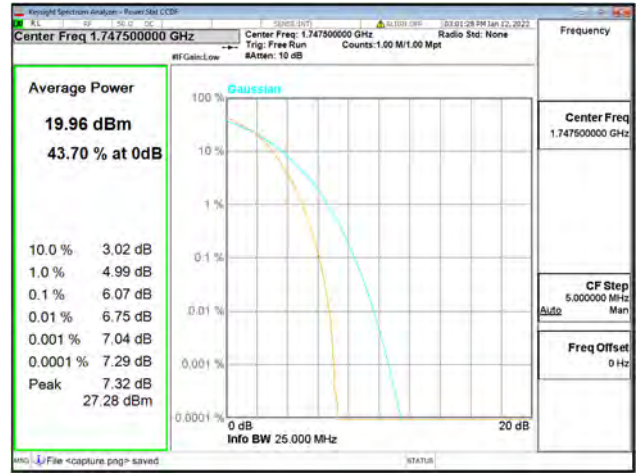




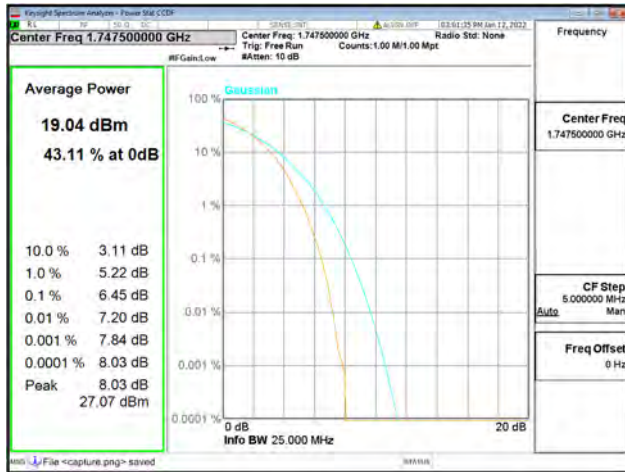
Band4 / 15MHz / High CH / QPSK



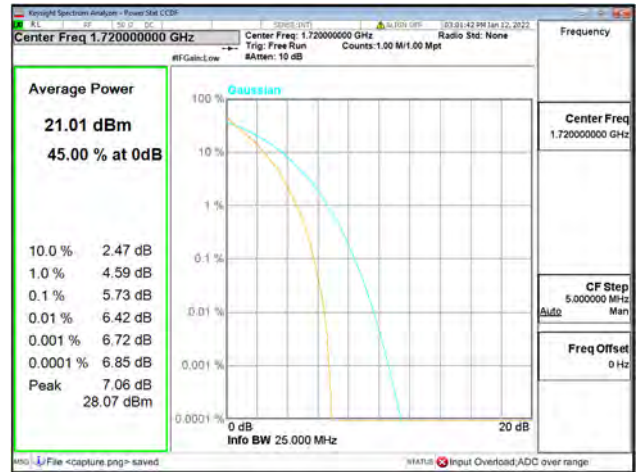
Band4 / 15MHz / High CH / 16QAM



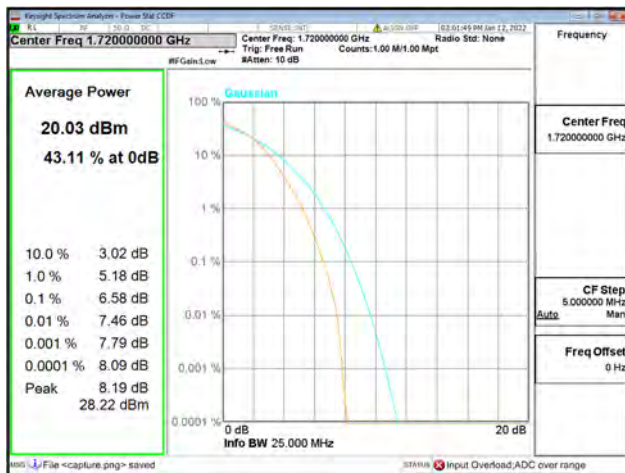
Band4 / 15MHz / High CH / 64QAM



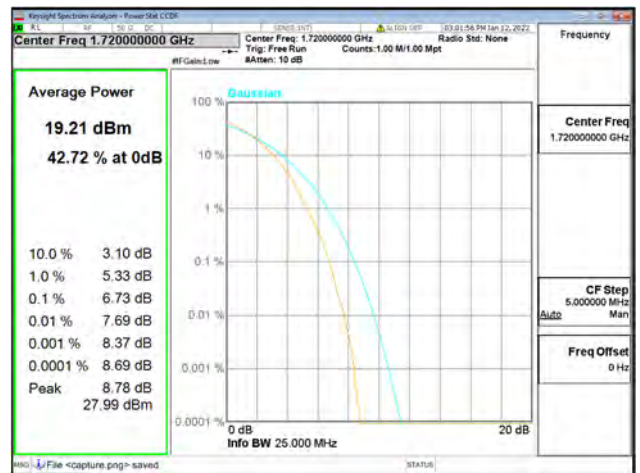
Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM



Band4 / 20MHz / Low CH / 64QAM

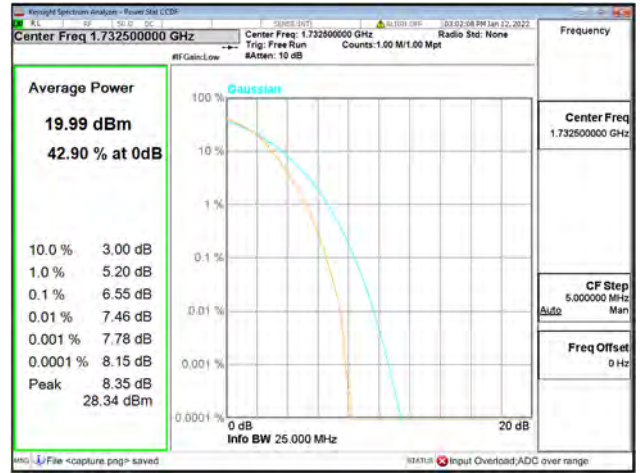




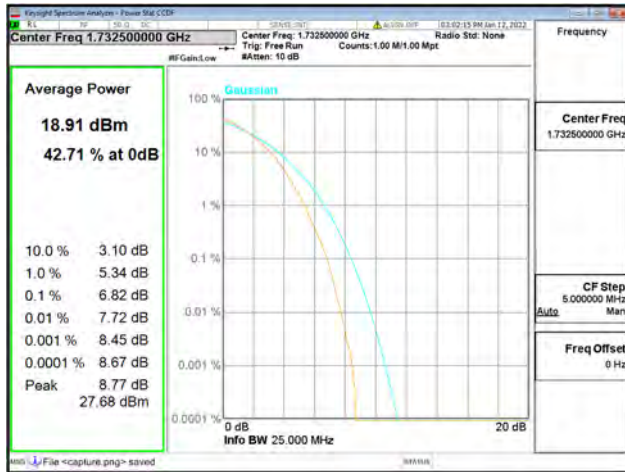
Band4 / 20MHz / Mid CH / QPSK



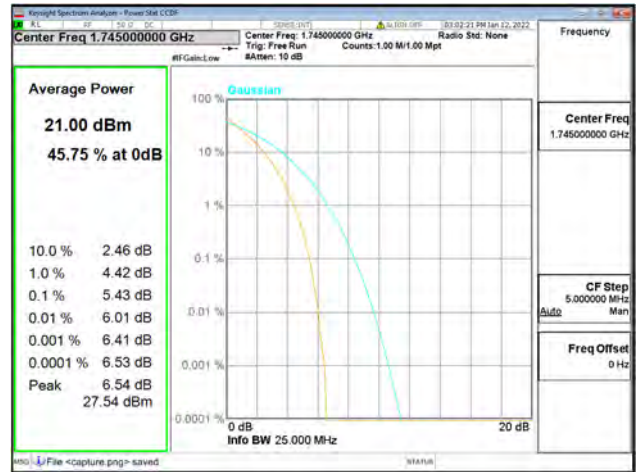
Band4 / 20MHz / Mid CH / 16QAM



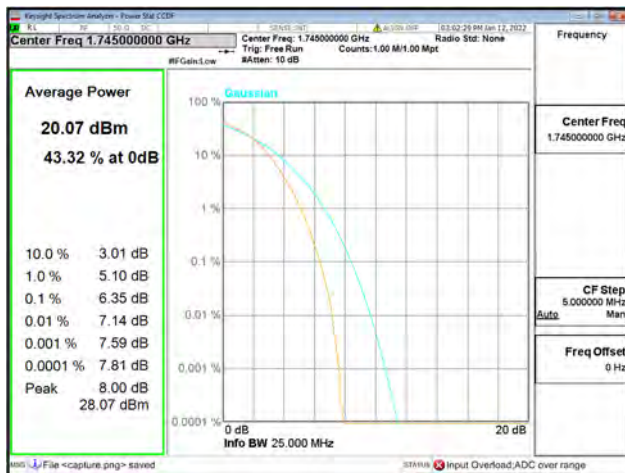
Band4 / 20MHz / Mid CH / 64QAM



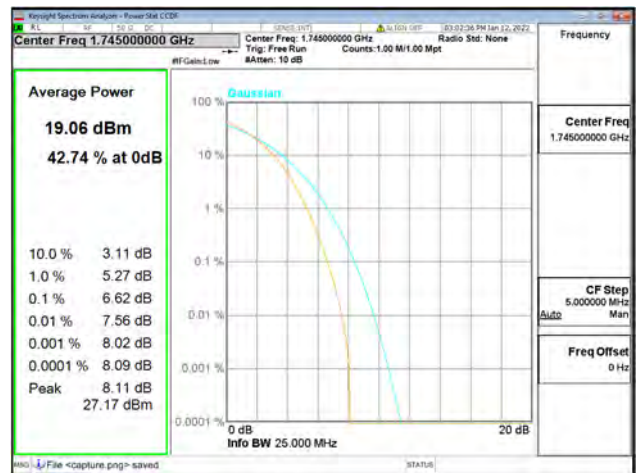
Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM



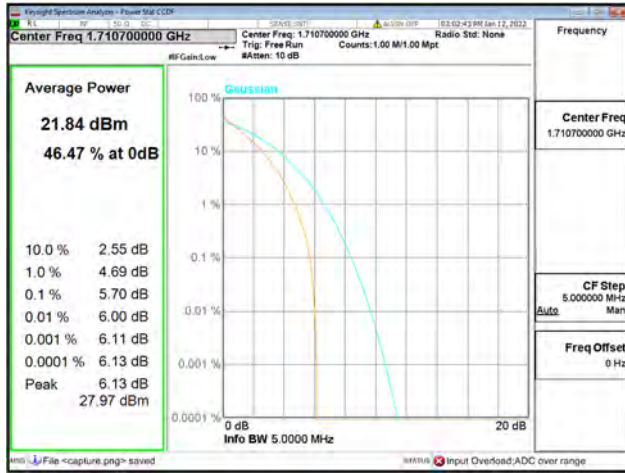
Band4 / 20MHz / High CH / 64QAM



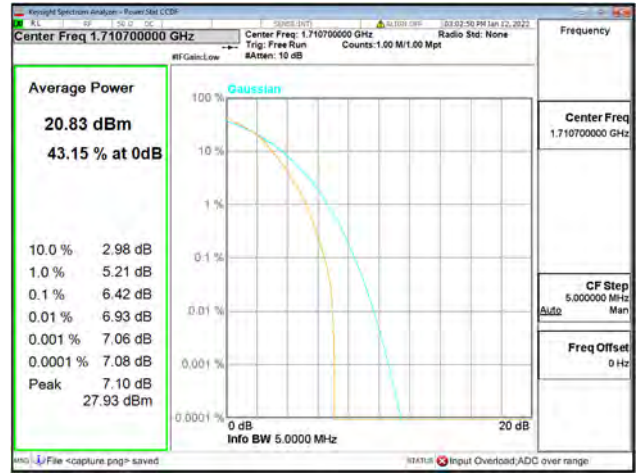




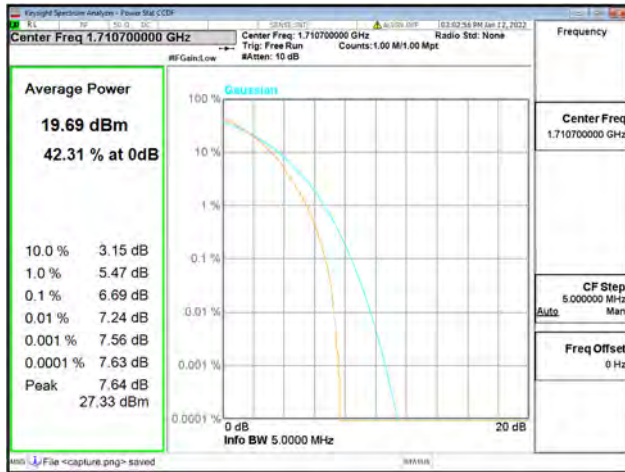
Band66 / 1.4MHz / Low CH / QPSK



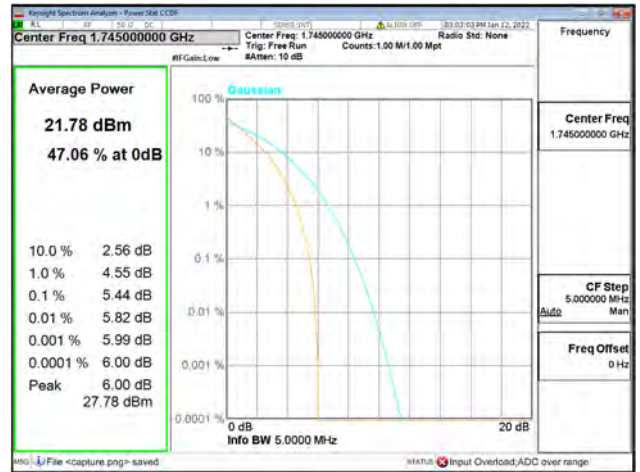
Band66 / 1.4MHz / Low CH / 16QAM



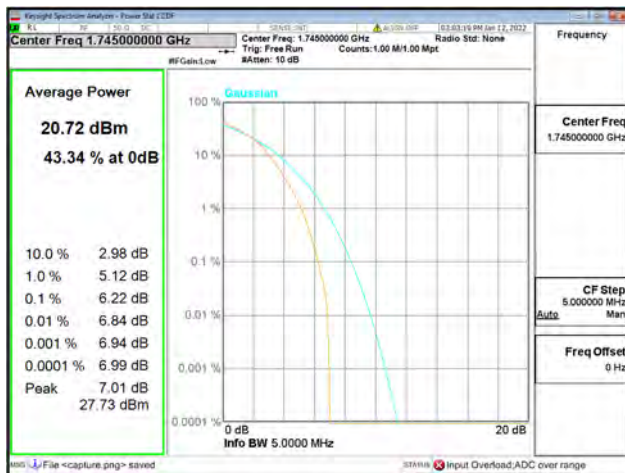
Band66 / 1.4MHz / Low CH / 64QAM



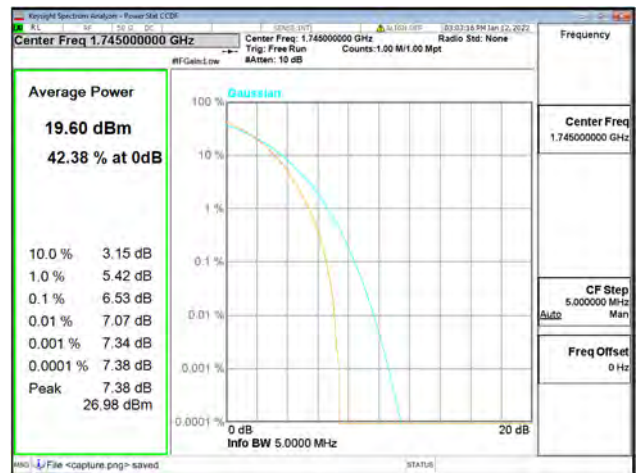
Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM

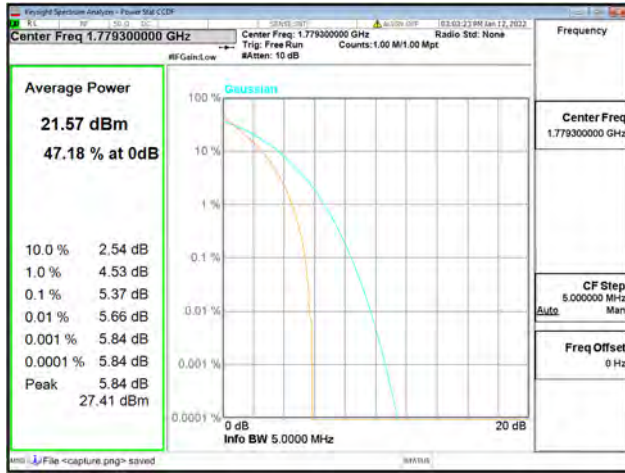


Band66 / 1.4MHz / Mid CH / 64QAM

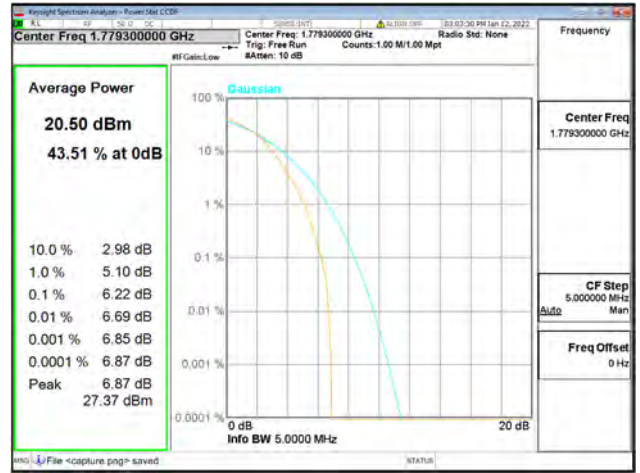




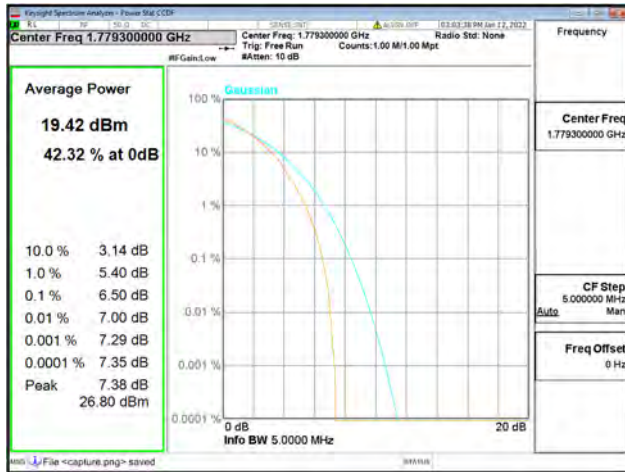
Band66 / 1.4MHz / High CH / QPSK



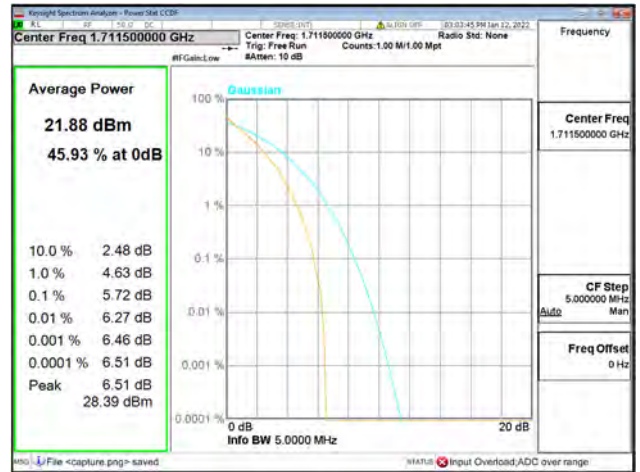
Band66 / 1.4MHz / High CH / 16QAM



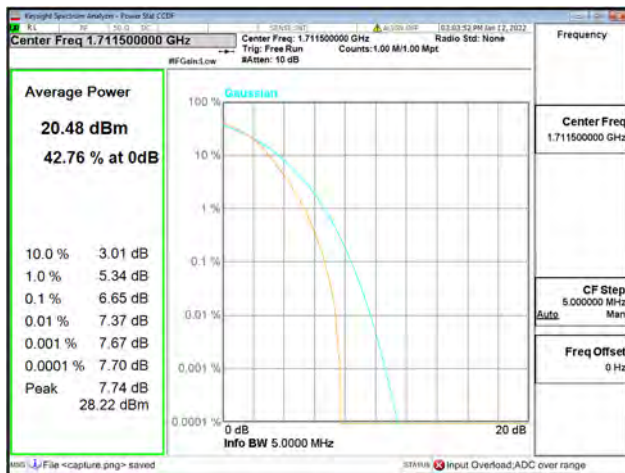
Band66 / 1.4MHz / High CH / 64QAM



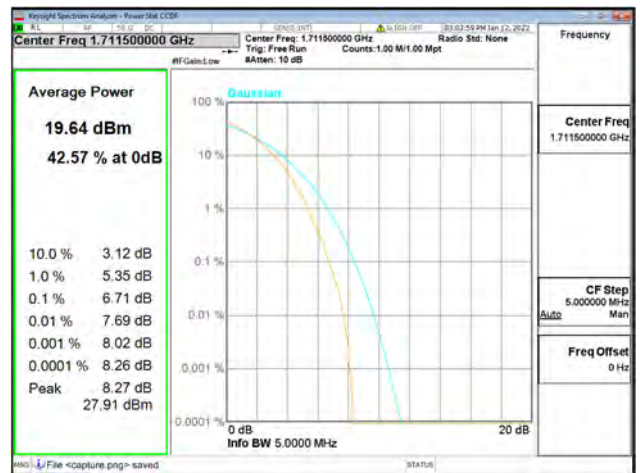
Band66 / 3MHz / Low CH / QPSK



Band66 / 3MHz / Low CH / 16QAM



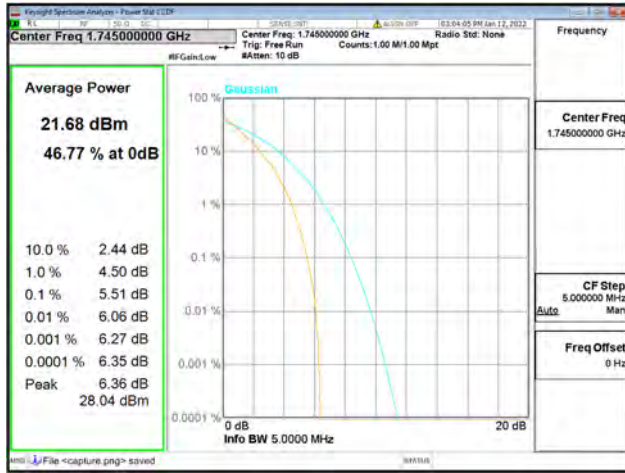
Band66 / 3MHz / Low CH / 64QAM



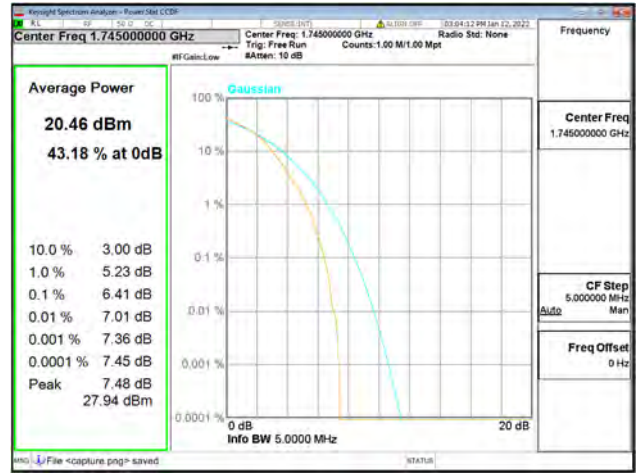




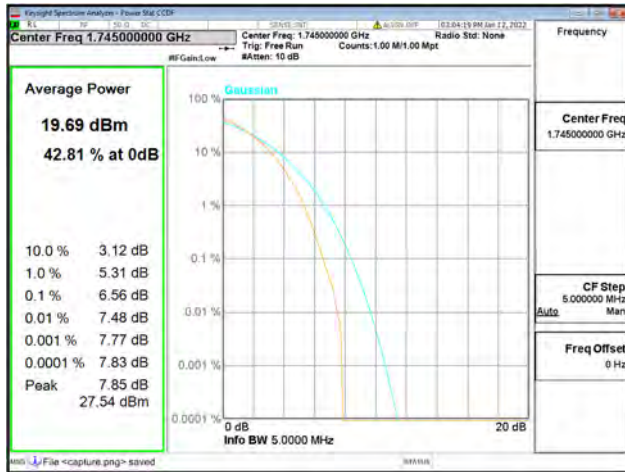
Band66 / 3MHz / Mid CH / QPSK



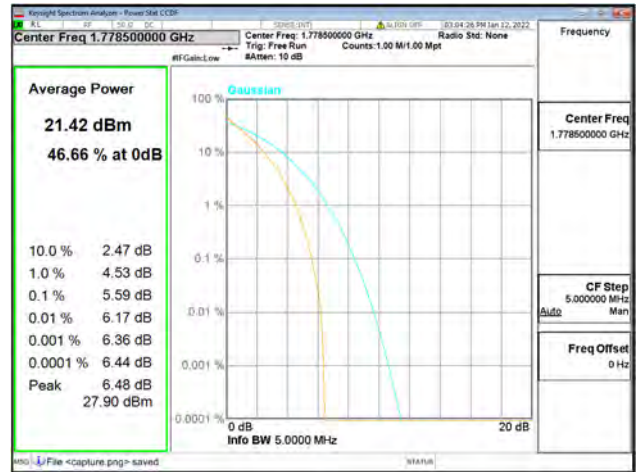
Band66 / 3MHz / Mid CH / 16QAM



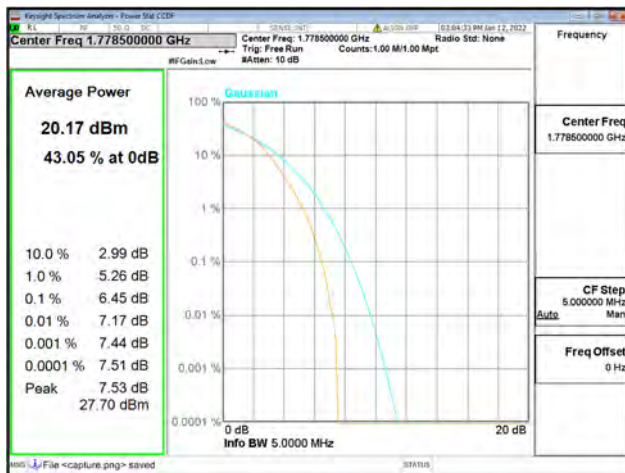
Band66 / 3MHz / Mid CH / 64QAM



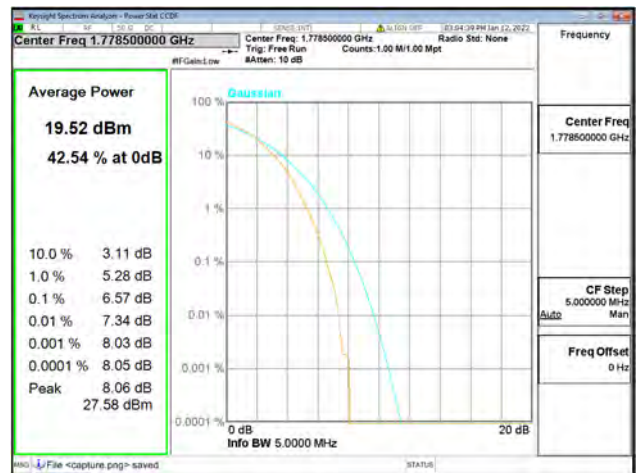
Band66 / 3MHz / High CH / QPSK

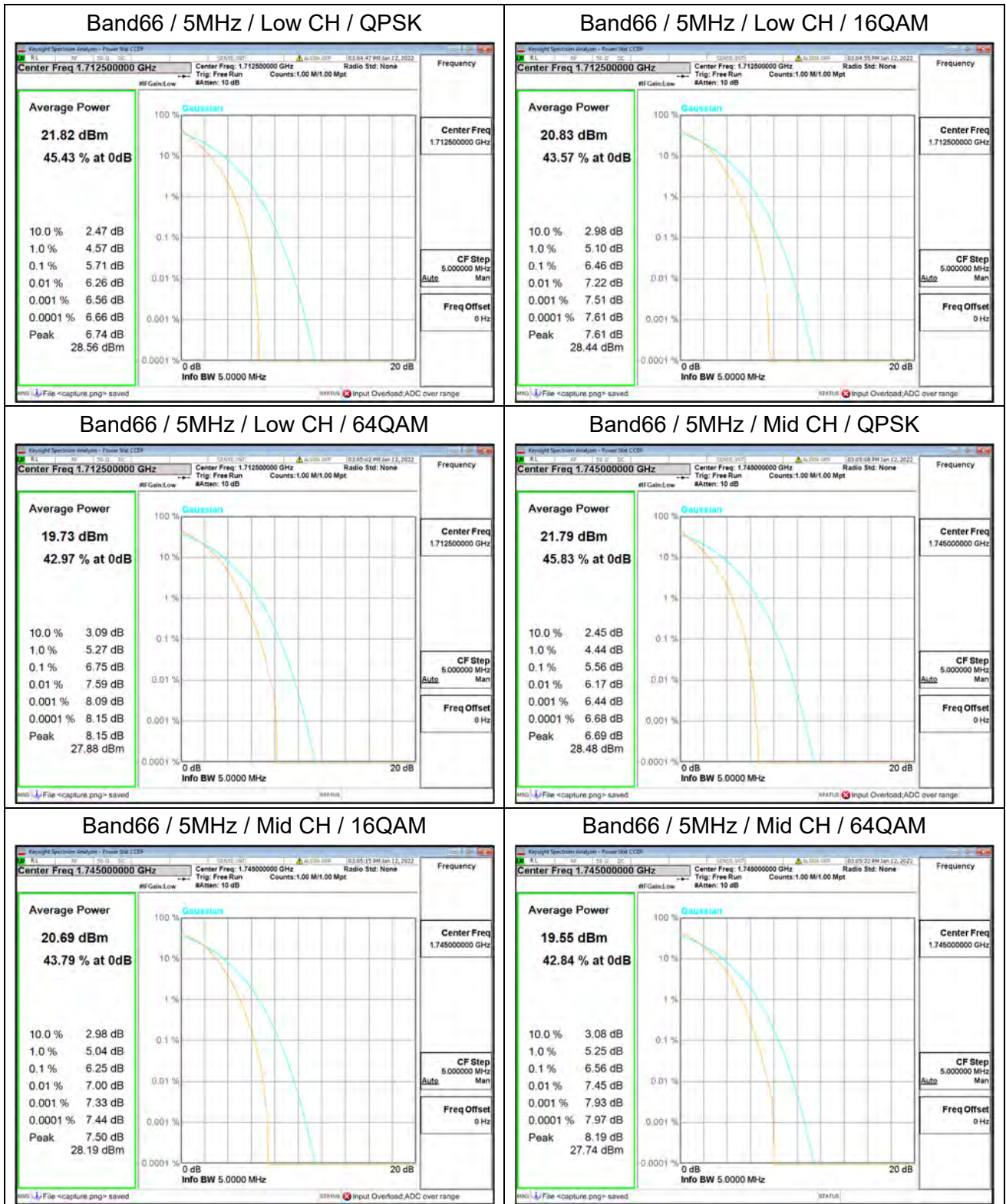


Band66 / 3MHz / High CH / 16QAM

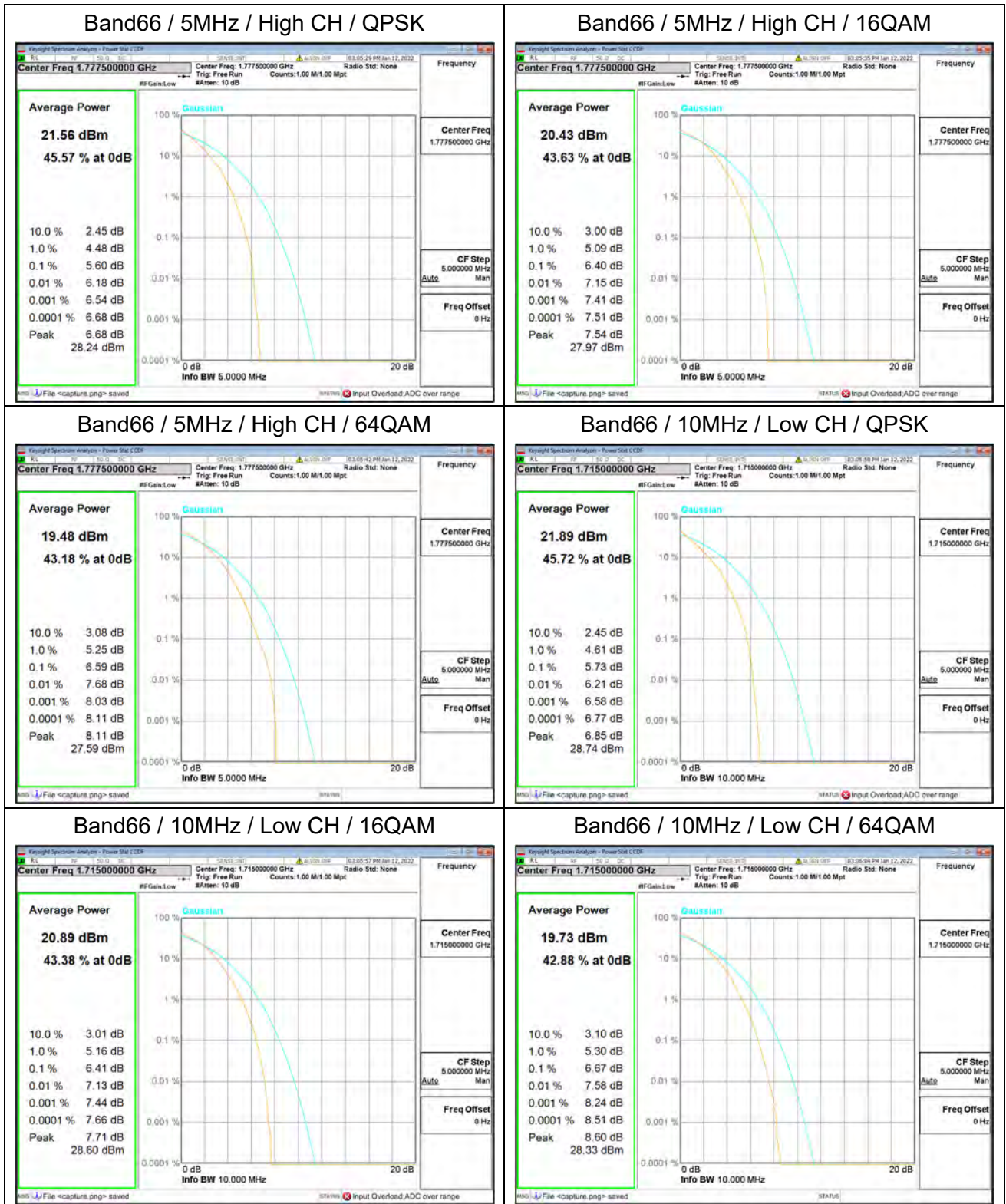


Band66 / 3MHz / High CH / 64QAM



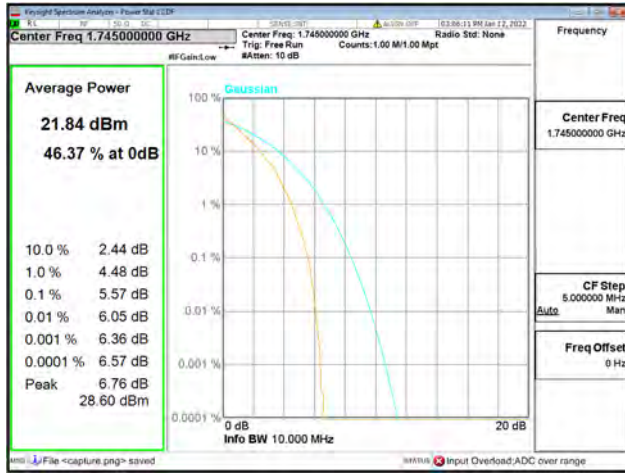




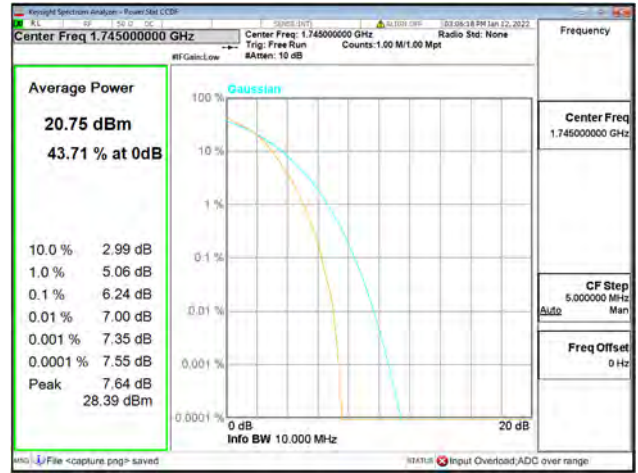




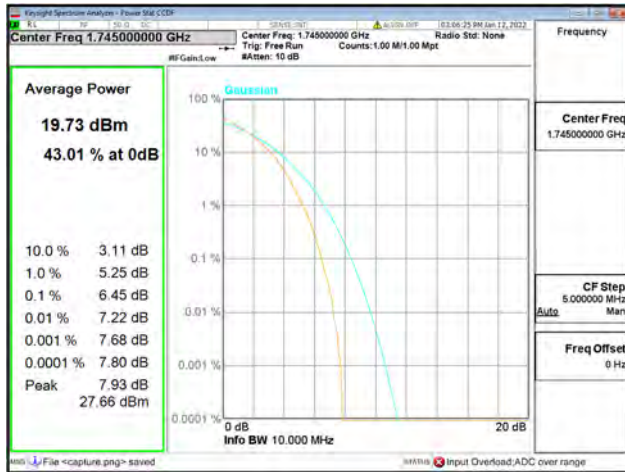
Band66 / 10MHz / Mid CH / QPSK



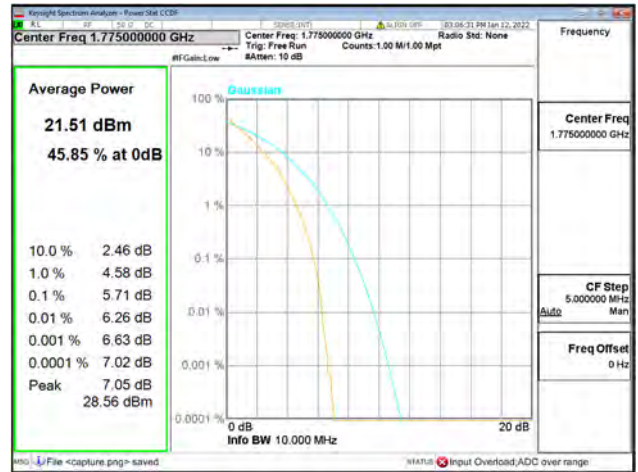
Band66 / 10MHz / Mid CH / 16QAM



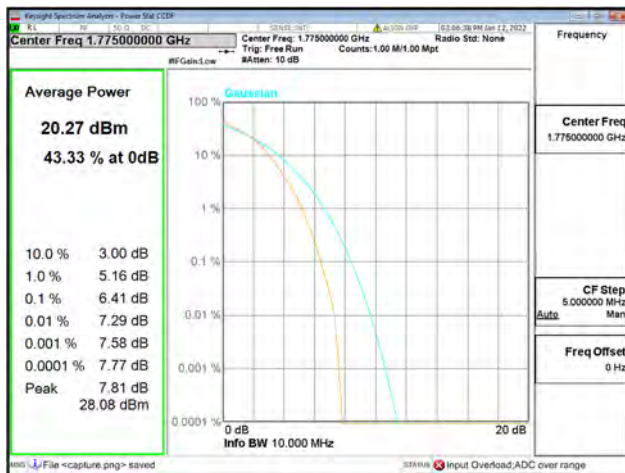
Band66 / 10MHz / Mid CH / 64QAM



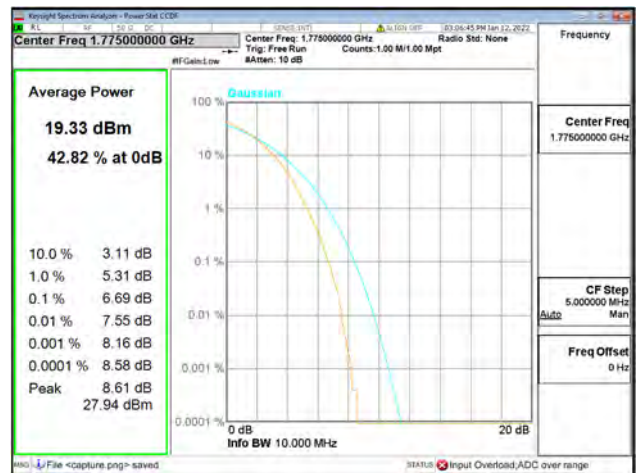
Band66 / 10MHz / High CH / QPSK



Band66 / 10MHz / High CH / 16QAM



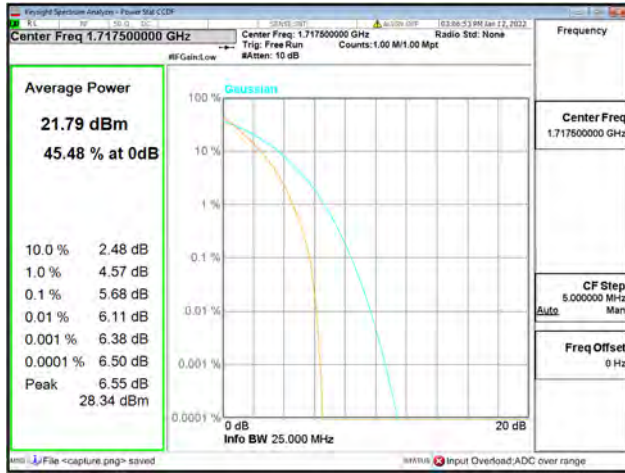
Band66 / 10MHz / High CH / 64QAM



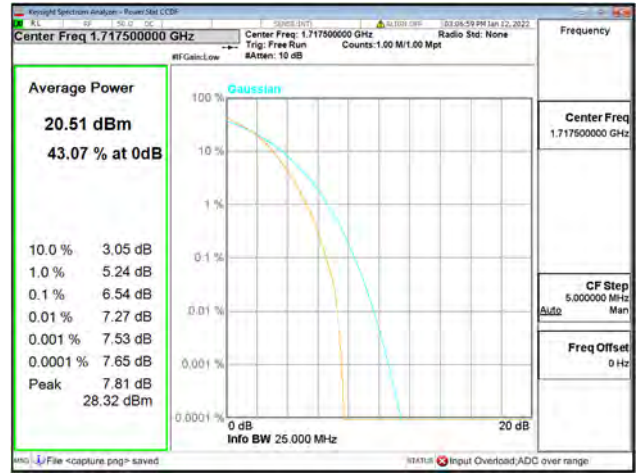




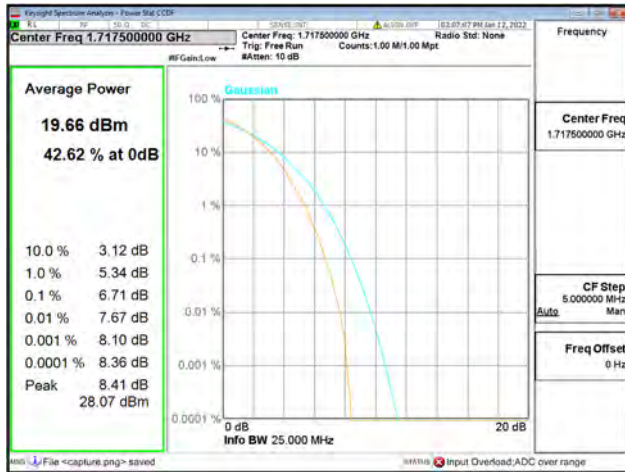
Band66 / 15MHz / Low CH / QPSK



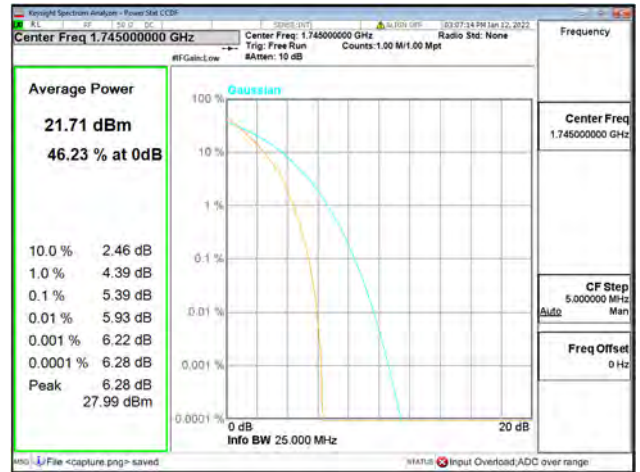
Band66 / 15MHz / Low CH / 16QAM



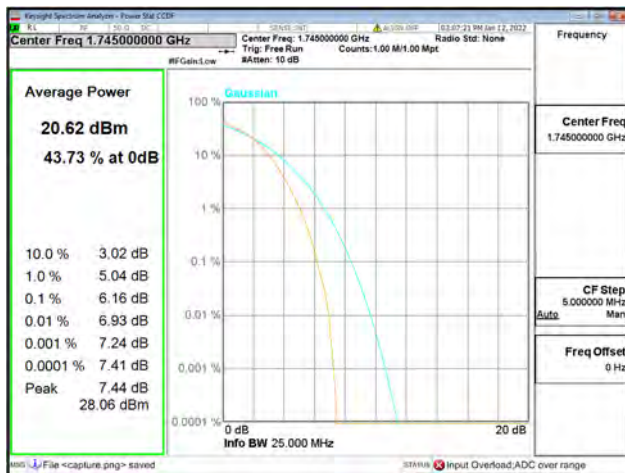
Band66 / 15MHz / Low CH / 64QAM



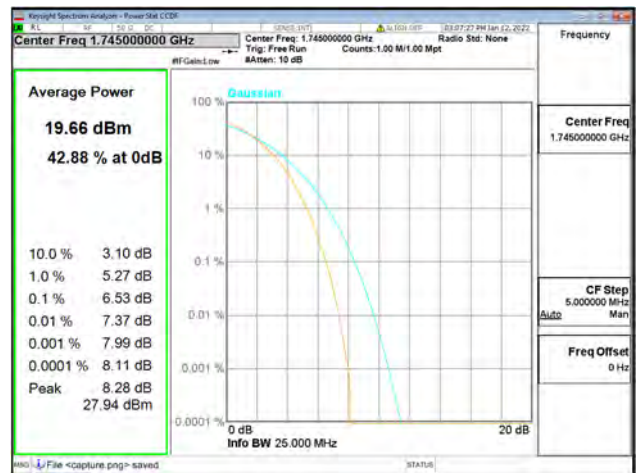
Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM



Band66 / 15MHz / Mid CH / 64QAM

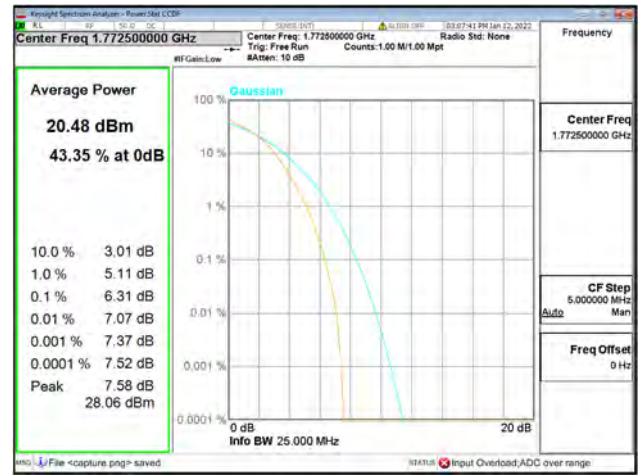




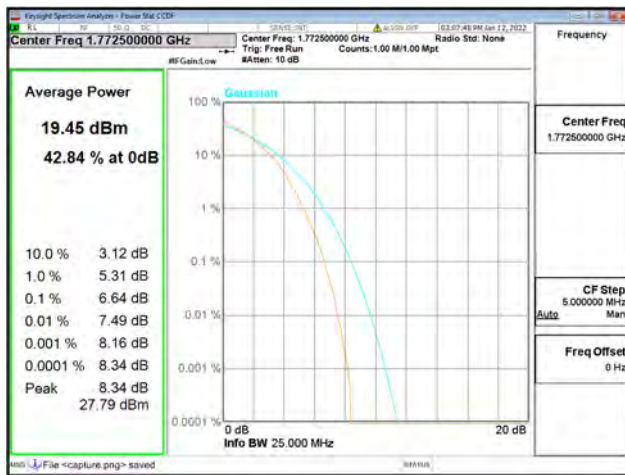
Band66 / 15MHz / High CH / QPSK



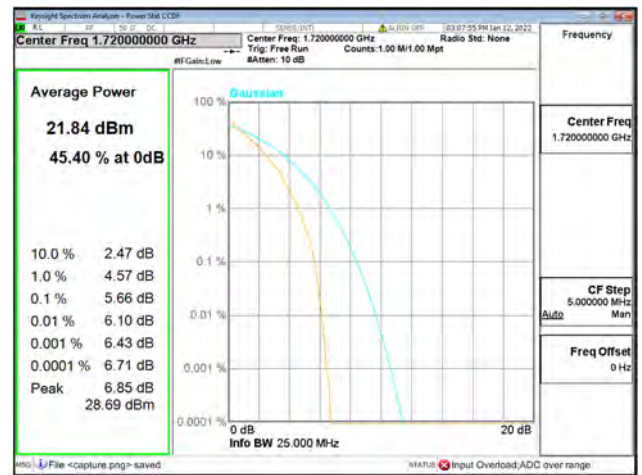
Band66 / 15MHz / High CH / 16QAM



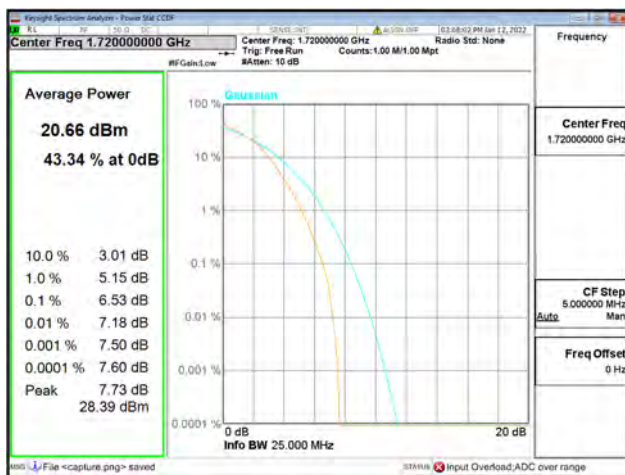
Band66 / 15MHz / High CH / 64QAM



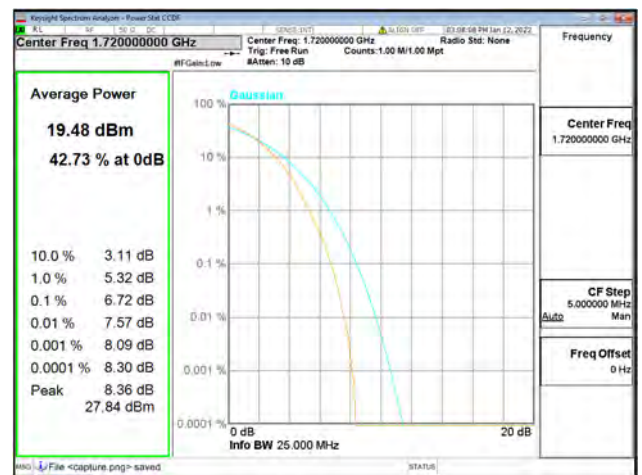
Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM



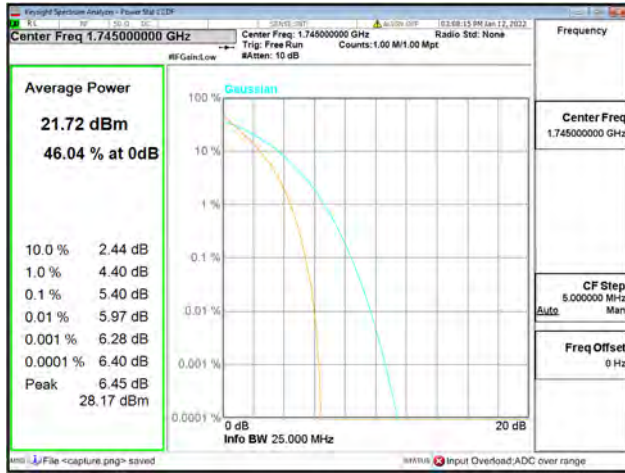
Band66 / 20MHz / Low CH / 64QAM



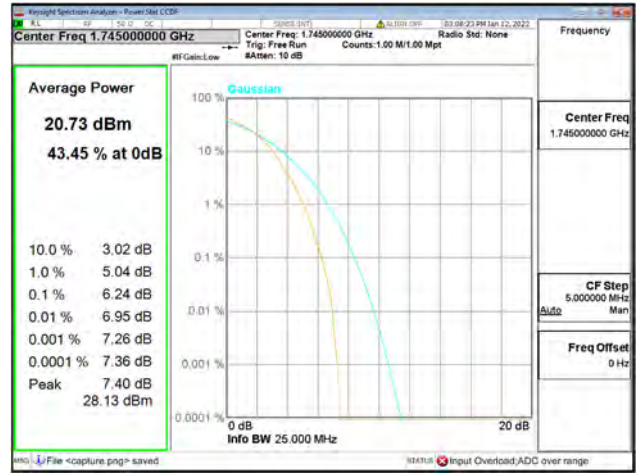




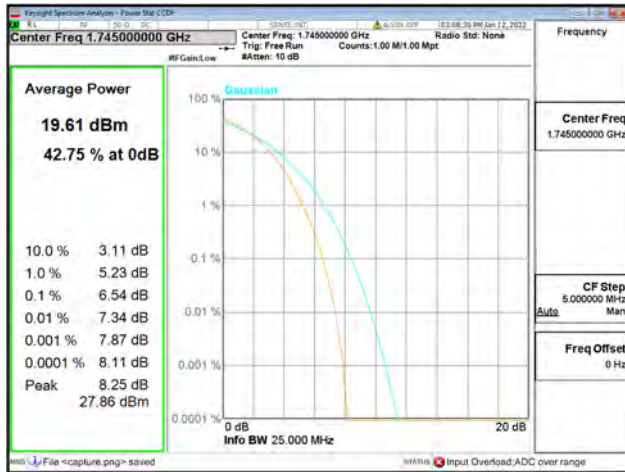
Band66 / 20MHz / Mid CH / QPSK



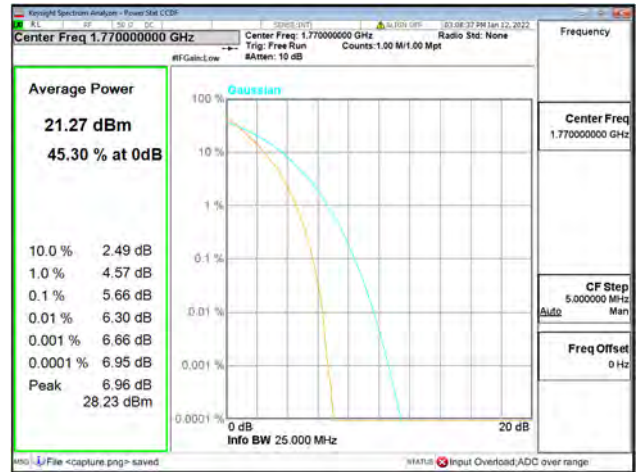
Band66 / 20MHz / Mid CH / 16QAM



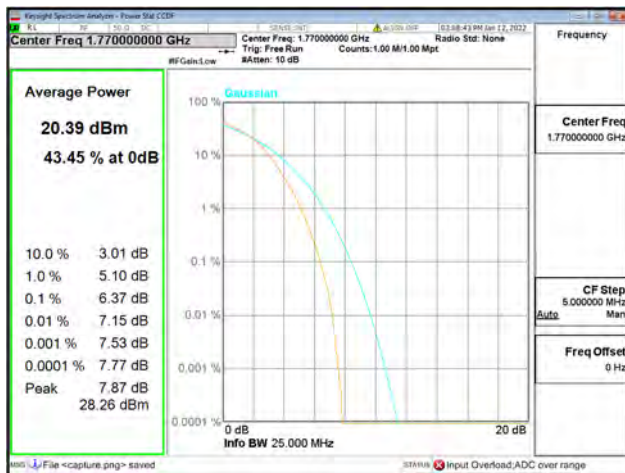
Band66 / 20MHz / Mid CH / 64QAM



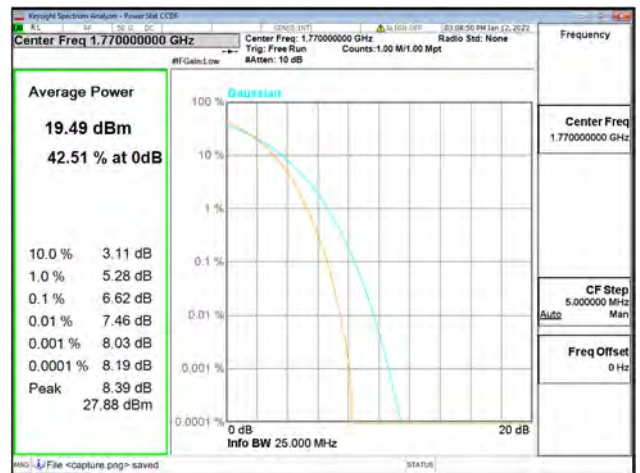
Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM



## 2.5. Conducted Spurious Emissions

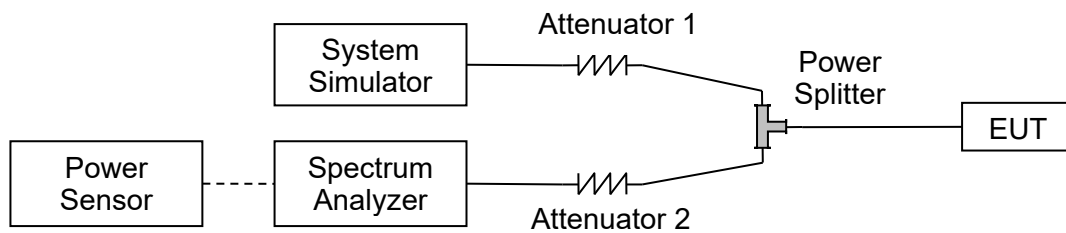
### 2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

Additional requirement for LTE Band 7, 38, 41:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. This calculated to be -25dBm.

### 2.5.2. Test Description



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.

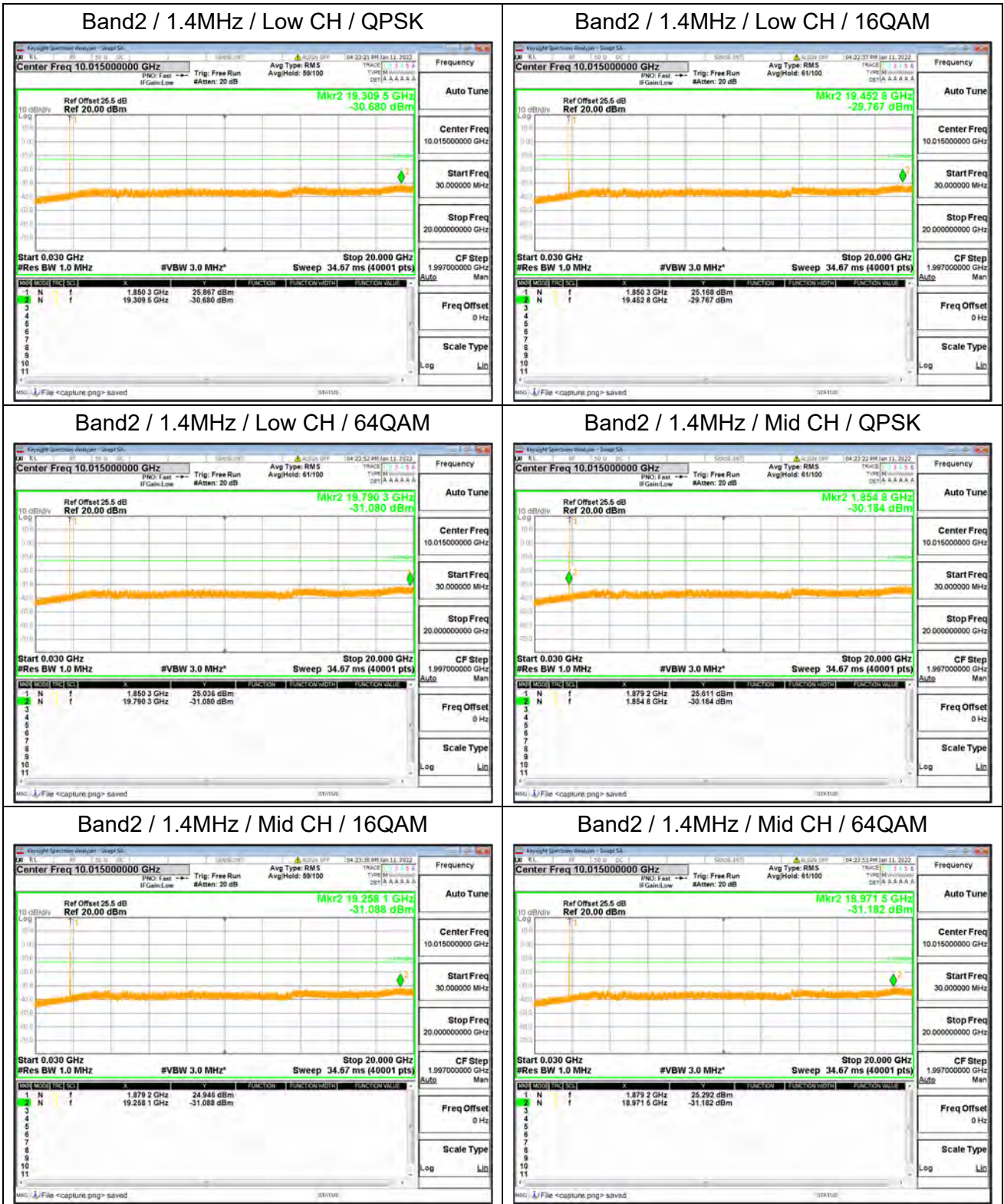
### 2.5.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



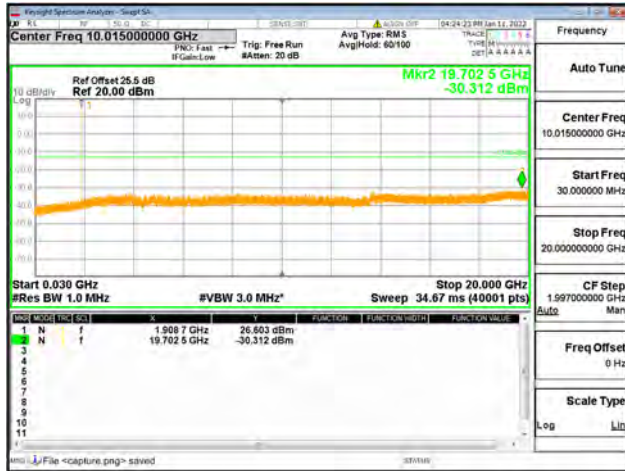


2.5.4. Test Result

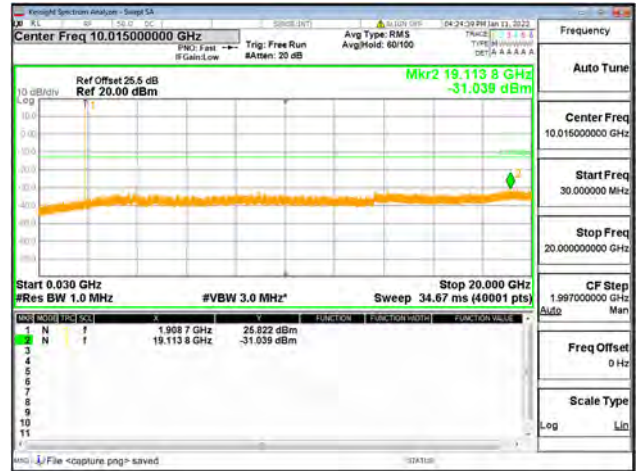




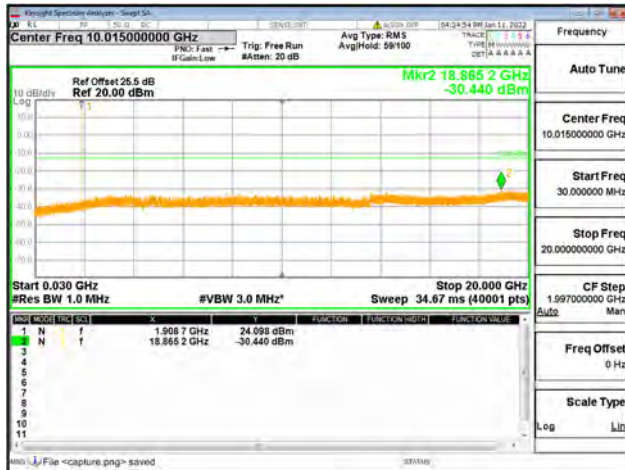
Band2 / 1.4MHz / High CH / QPSK



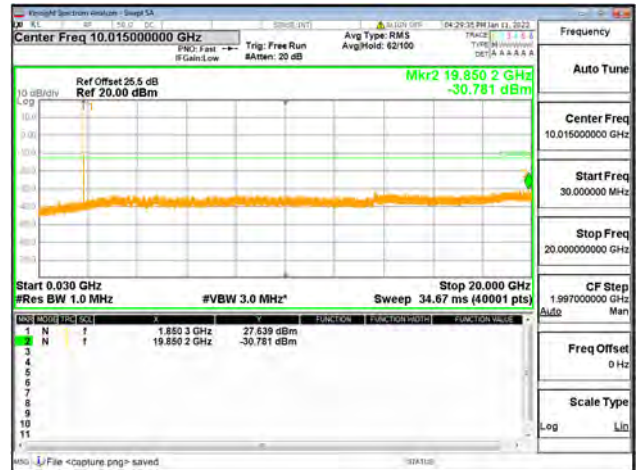
Band2 / 1.4MHz / High CH / 16QAM



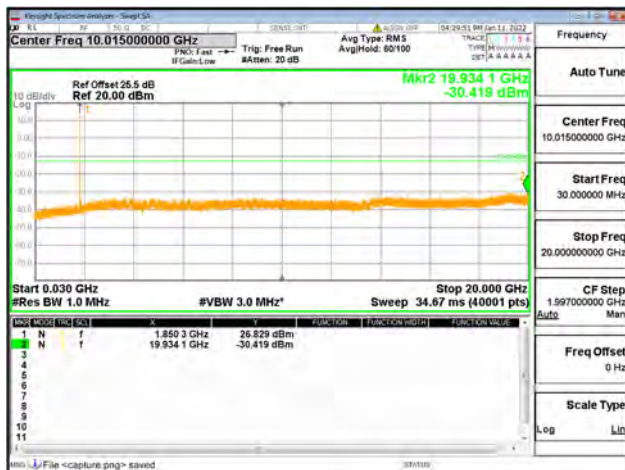
Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM

