



Band18Part22 / 5MHz / QPSK/ Low CH



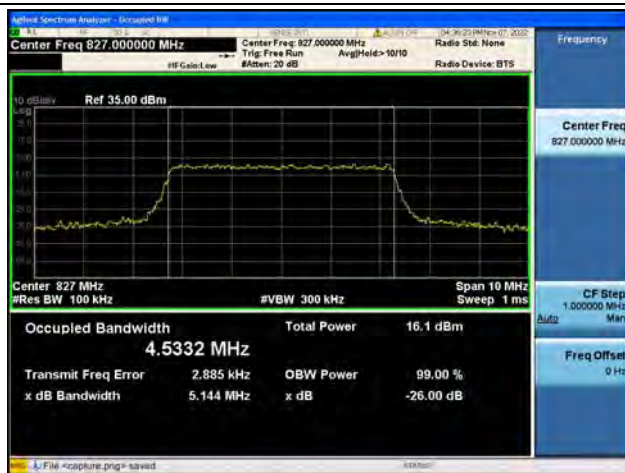
Band18Part22 / 5MHz / 16QAM/ Low CH



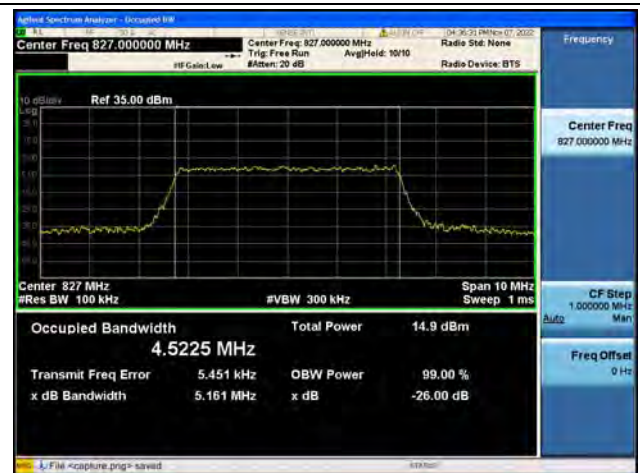
Band18Part22 / 5MHz / 64QAM/ Low CH



Band18Part22 / 5MHz / QPSK/ Mid CH



Band18Part22 / 5MHz / 16QAM/ Mid CH



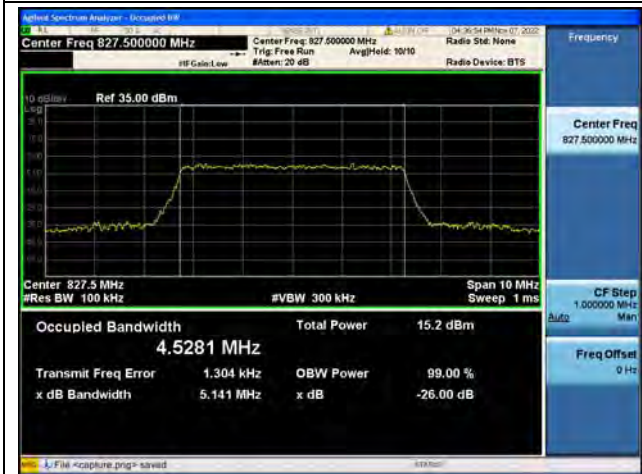
Band18Part22 / 5MHz / 64QAM/ Mid CH



Band18Part22 / 5MHz / QPSK/ High CH



Band18Part22 / 5MHz / 16QAM/ High CH



Band18Part22 / 5MHz / 64QAM/ High CH



REPORT No.: SZ22100161W21





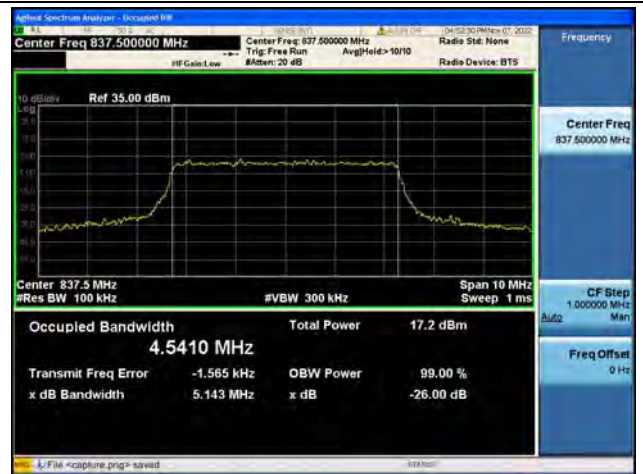
Band19 / 5MHz / QPSK/ Low CH



Band19 / 5MHz / 16QAM/ Low CH



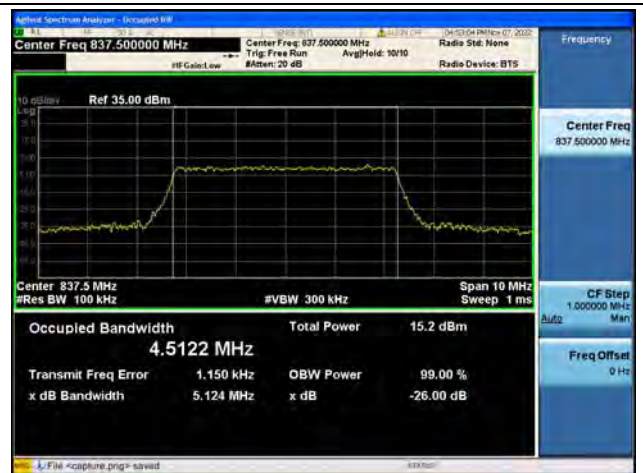
Band19 / 5MHz / 64QAM/ Low CH



Band19 / 5MHz / QPSK/ Mid CH



Band19 / 5MHz / 16QAM/ Mid CH



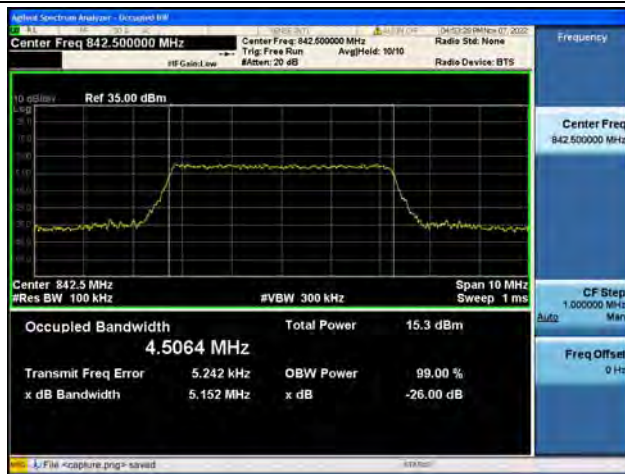
Band19 / 5MHz / 64QAM/ Mid CH



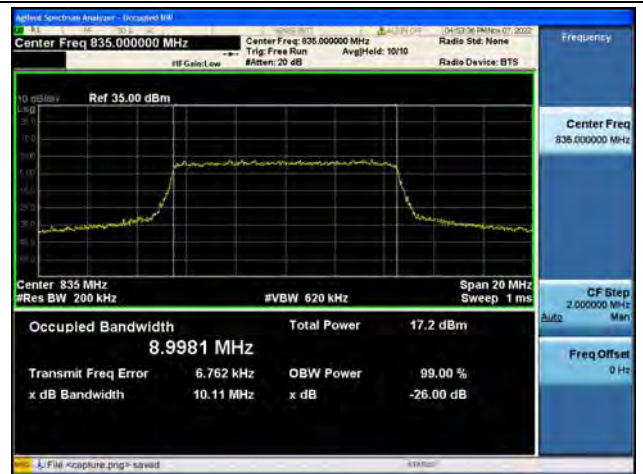
Band19 / 5MHz / QPSK / High CH



Band19 / 5MHz / 16QAM / High CH



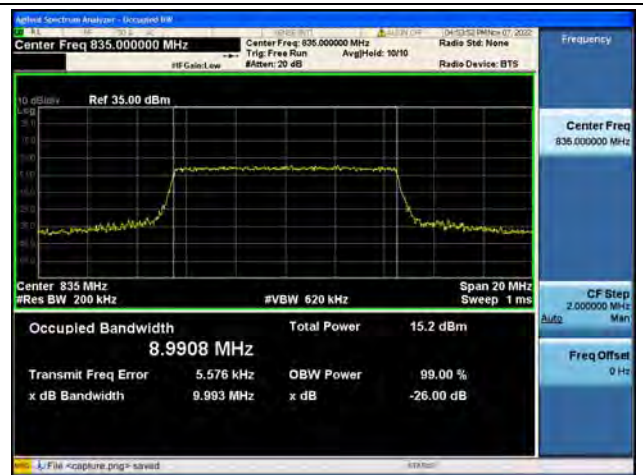
Band19 / 5MHz / 64QAM / High CH



Band19 / 10MHz / QPSK / Low CH



Band19 / 10MHz / 16QAM / Low CH



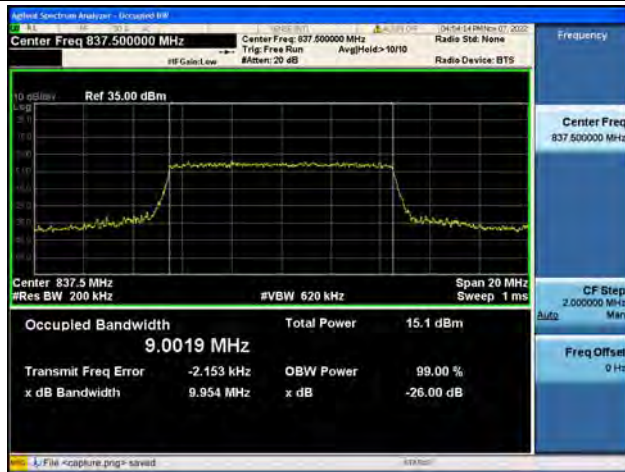
Band19 / 10MHz / 64QAM / Low CH



Band19 / 10MHz / QPSK/ Mid CH



Band19 / 10MHz / 16QAM/ Mid CH



Band19 / 10MHz / 64QAM/ Mid CH



Band19 / 10MHz / QPSK/ High CH



Band19 / 10MHz / 16QAM/ High CH



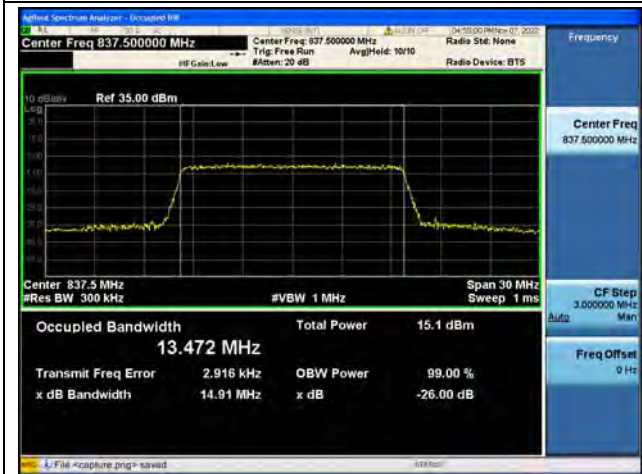
Band19 / 10MHz / 64QAM/ High CH



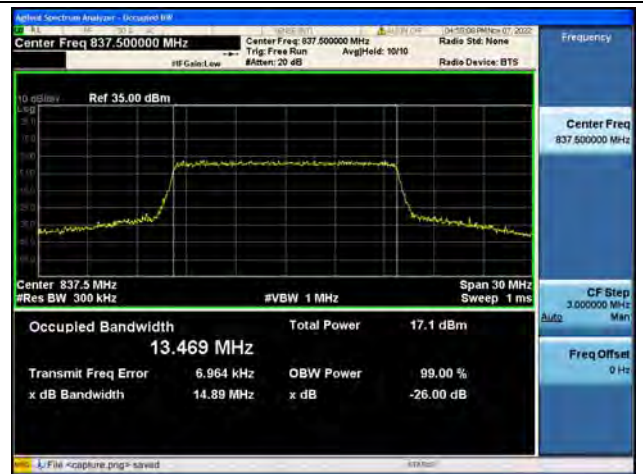
Band19 / 15MHz / QPSK/ Low CH



Band19 / 15MHz / 16QAM/ Low CH



Band19 / 15MHz / 64QAM/ Low CH



Band19 / 15MHz / QPSK/ Mid CH



Band19 / 15MHz / 16QAM/ Mid CH



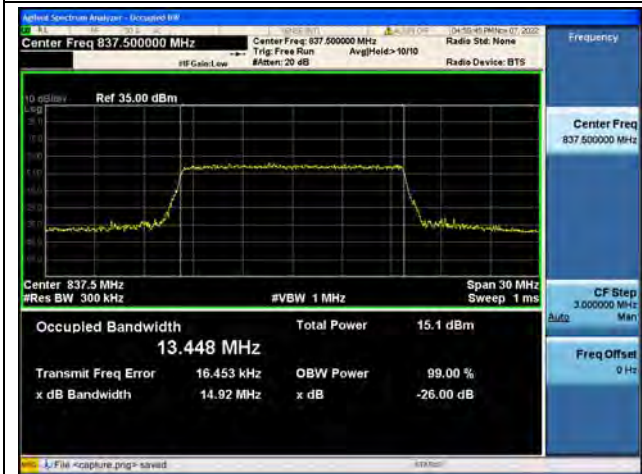
Band19 / 15MHz / 64QAM/ Mid CH



Band19 / 15MHz / QPSK/ High CH



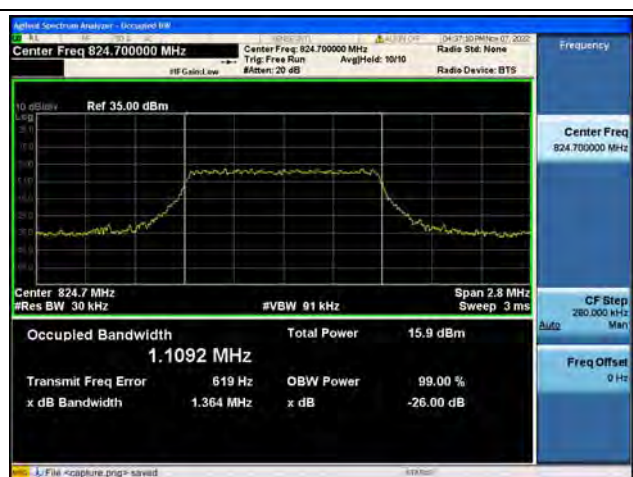
Band19 / 15MHz / 16QAM/ High CH



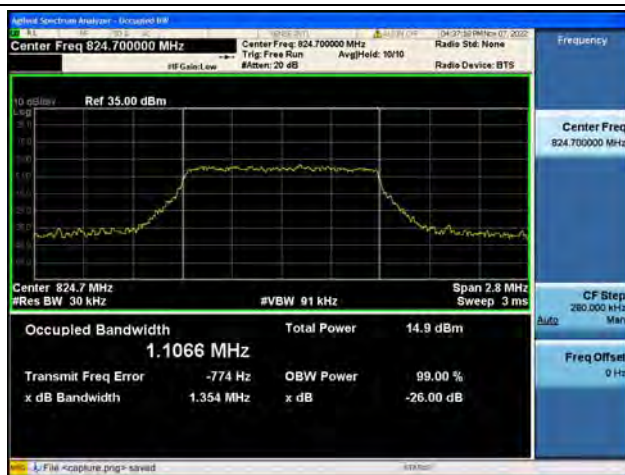
Band19 / 15MHz / 64QAM/ High CH



Band26Part22 / 1.4MHz / QPSK/ Low CH



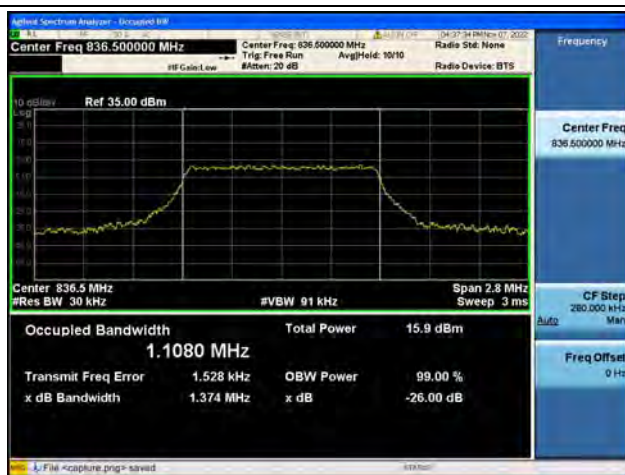
Band26Part22 / 1.4MHz / 16QAM/ Low CH



Band26Part22 / 1.4MHz / 64QAM/ Low CH



Band26Part22 / 1.4MHz / QPSK/ Mid CH



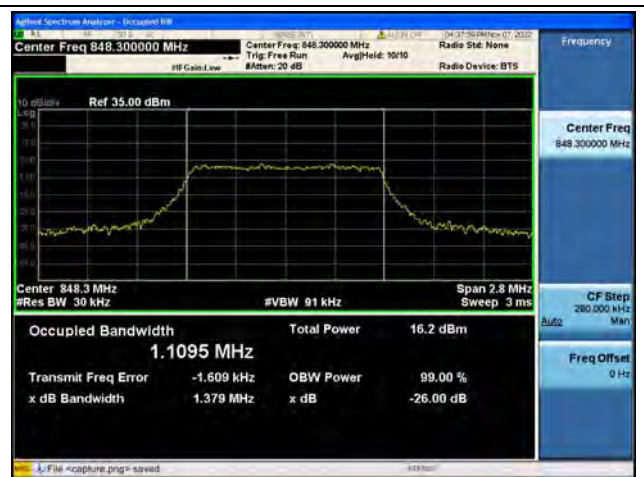
Band26Part22 / 1.4MHz / 16QAM/ Mid CH



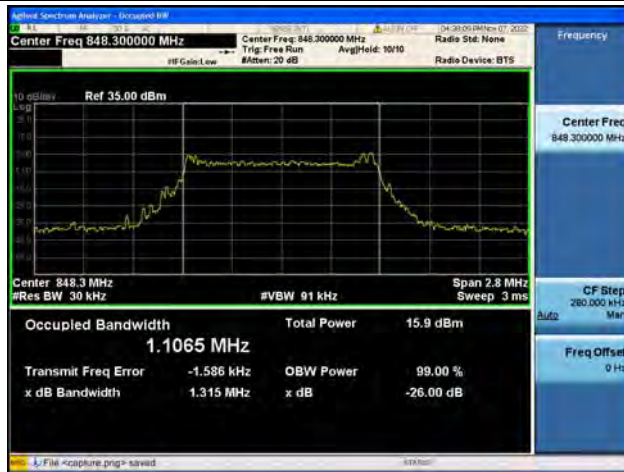
Band26Part22 / 1.4MHz / 64QAM/ Mid CH



Band26Part22 / 1.4MHz / QPSK / High CH



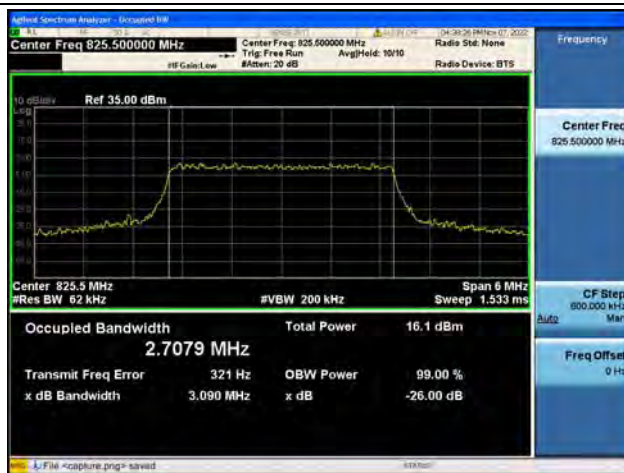
Band26Part22 / 1.4MHz / 16QAM / High CH



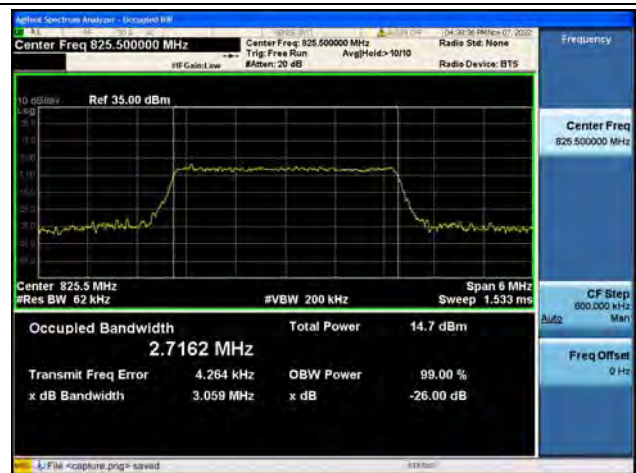
Band26Part22 / 1.4MHz / 64QAM / High CH



Band26Part22 / 3MHz / QPSK / Low CH



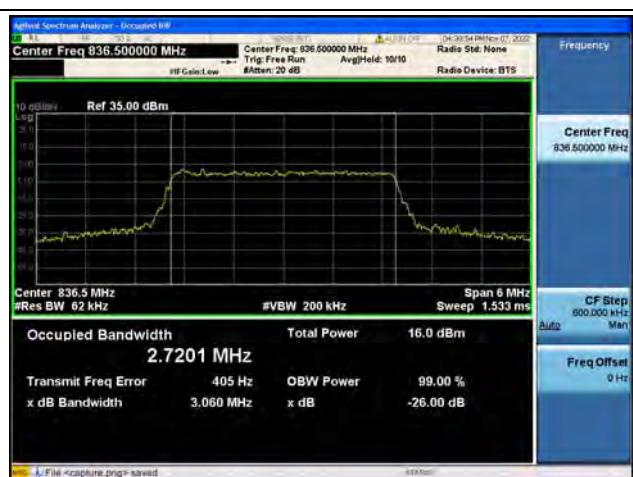
Band26Part22 / 3MHz / 16QAM / Low CH



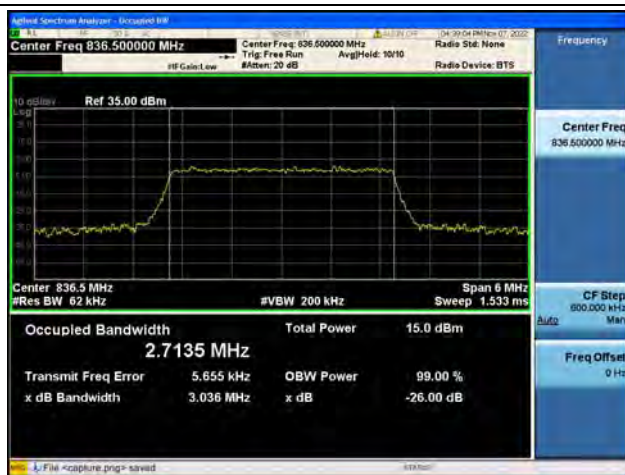
Band26Part22 / 3MHz / 64QAM / Low CH



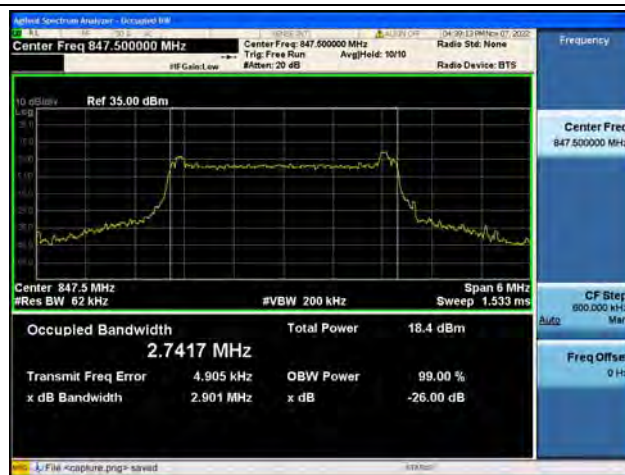
Band26Part22 / 3MHz / QPSK/ Mid CH



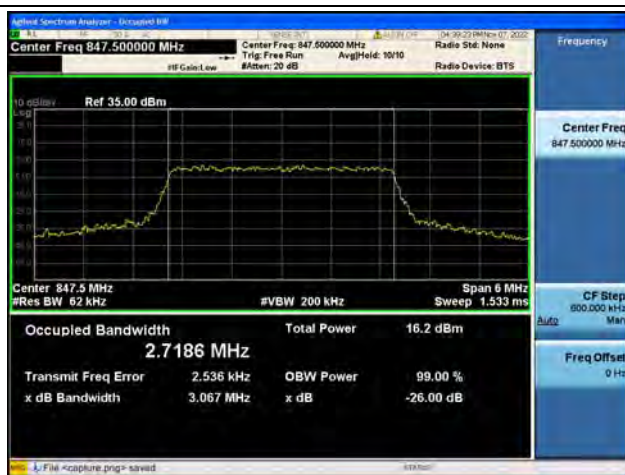
Band26Part22 / 3MHz / 16QAM/ Mid CH



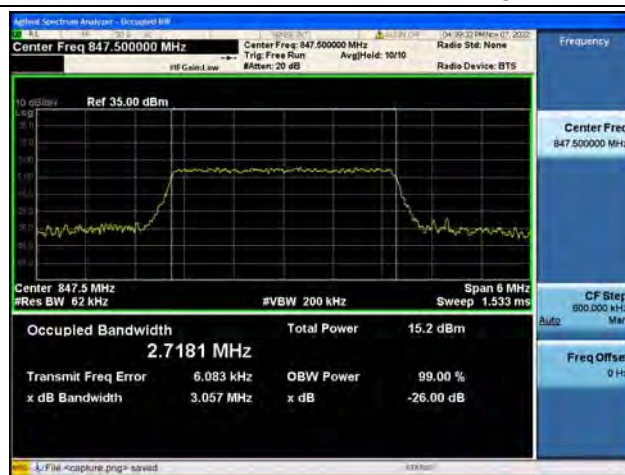
Band26Part22 / 3MHz / 64QAM/ Mid CH



Band26Part22 / 3MHz / QPSK/ High CH



Band26Part22 / 3MHz / 16QAM/ High CH



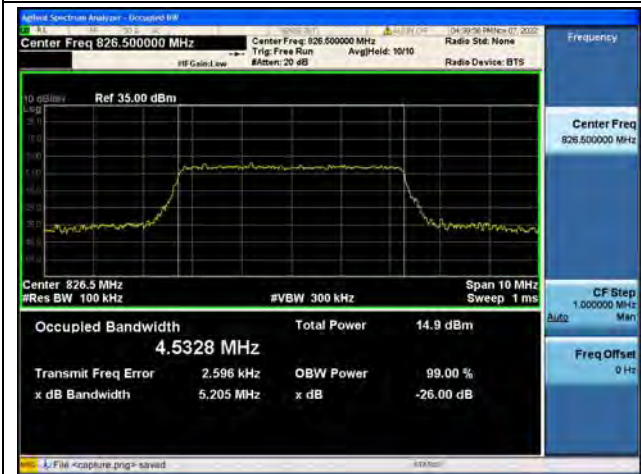
Band26Part22 / 3MHz / 64QAM/ High CH



Band26Part22 / 5MHz / QPSK/ Low CH



Band26Part22 / 5MHz / 16QAM/ Low CH



Band26Part22 / 5MHz / 64QAM/ Low CH



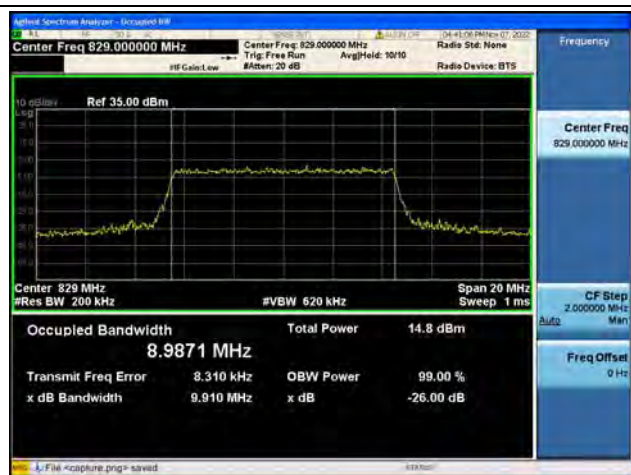
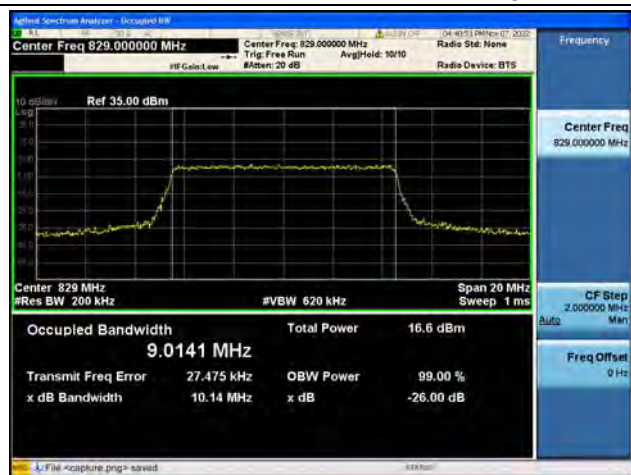
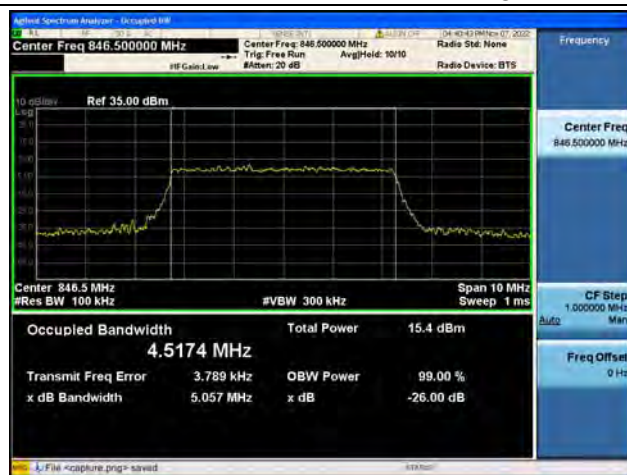
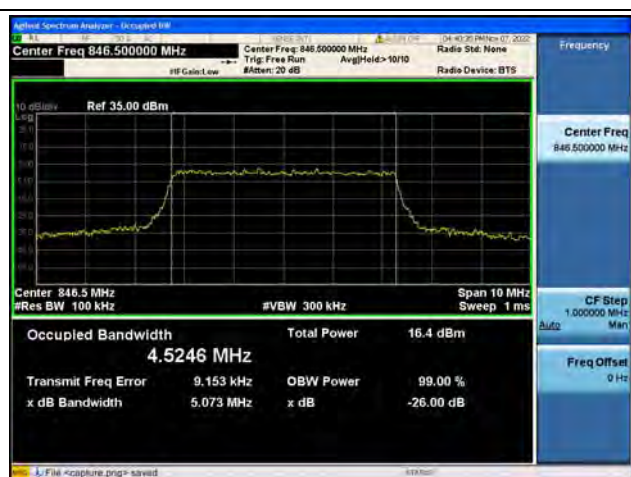
Band26Part22 / 5MHz / QPSK/ Mid CH

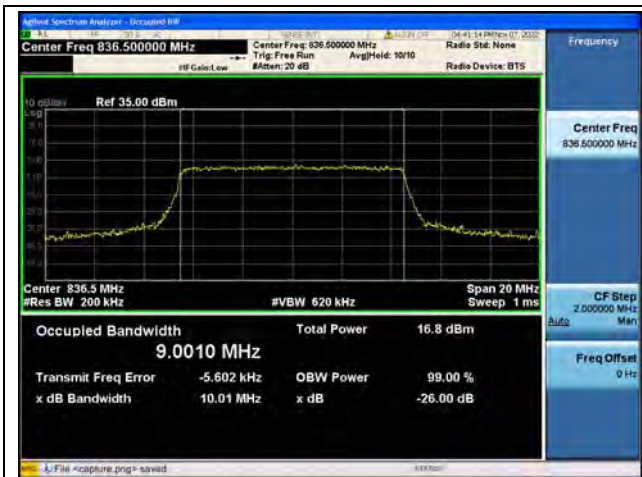


Band26Part22 / 5MHz / 16QAM/ Mid CH



Band26Part22 / 5MHz / 64QAM/ Mid CH

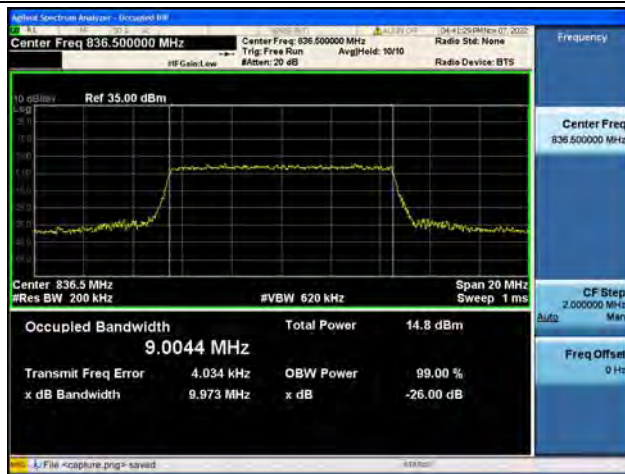




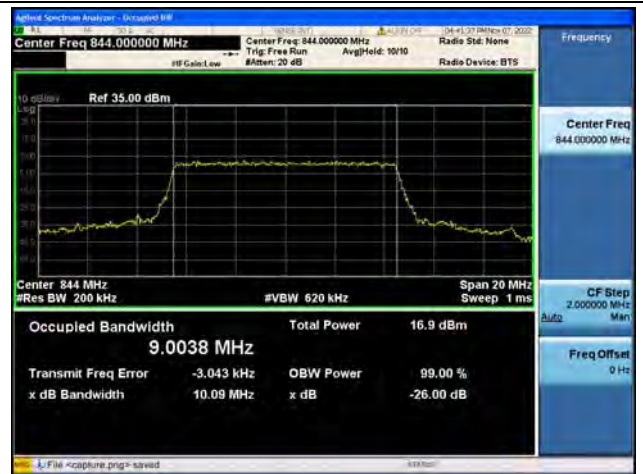
Band26Part22 / 10MHz / QPSK/ Mid CH



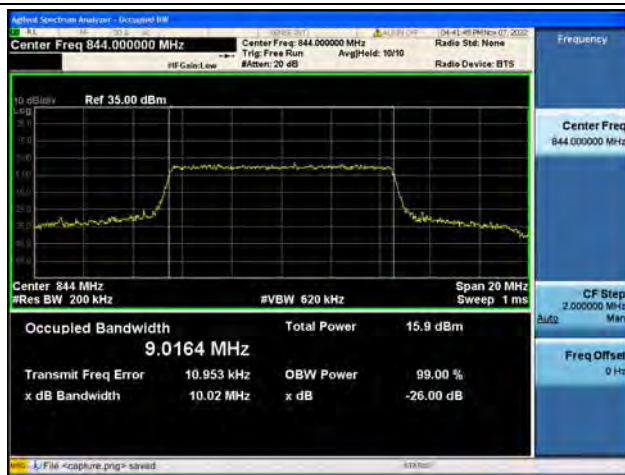
Band26Part22 / 10MHz / 16QAM/ Mid CH



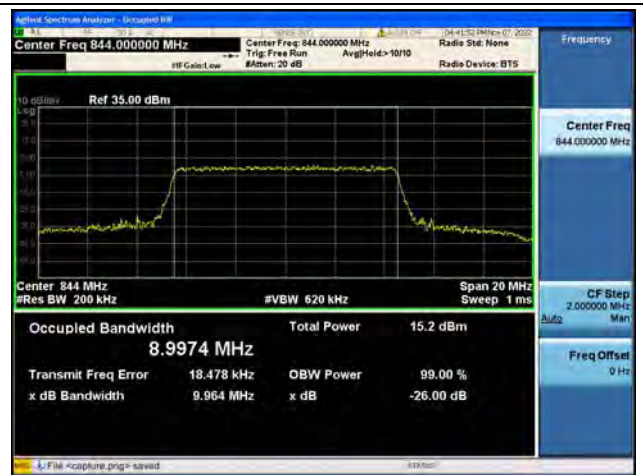
Band26Part22 / 10MHz / 64QAM/ Mid CH



Band26Part22 / 10MHz / QPSK/ High CH



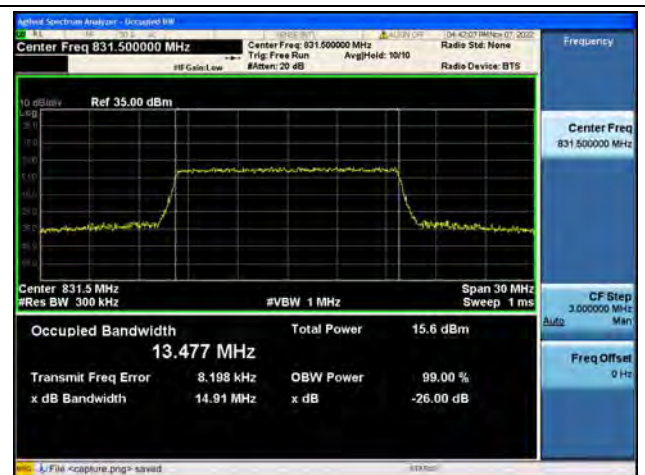
Band26Part22 / 10MHz / 16QAM/ High CH



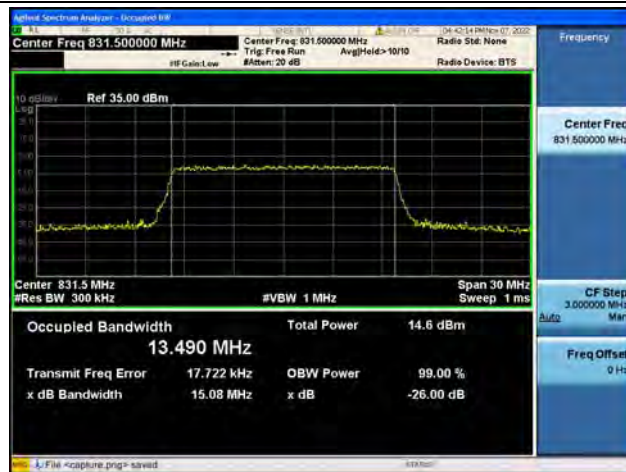
Band26Part22 / 10MHz / 64QAM/ High CH



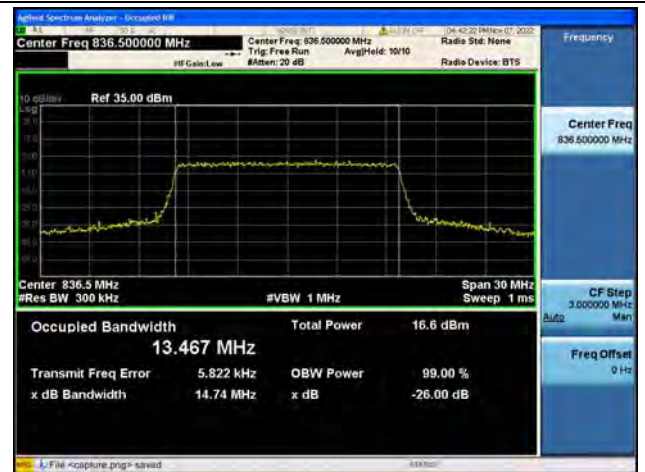
Band26Part22 / 15MHz / QPSK/ Low CH



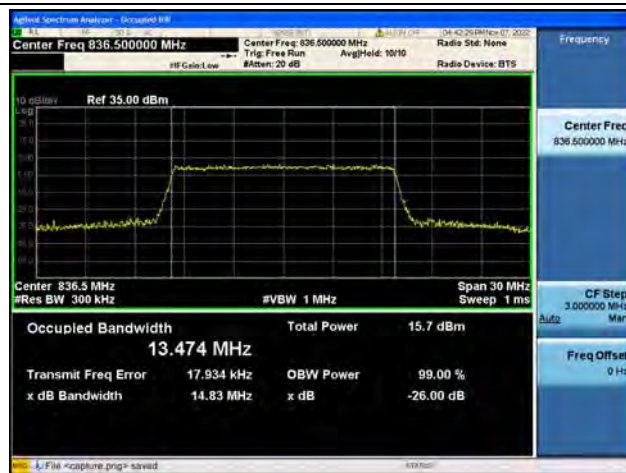
Band26Part22 / 15MHz / 16QAM/ Low CH



Band26Part22 / 15MHz / 64QAM/ Low CH



Band26Part22 / 15MHz / QPSK/ Mid CH



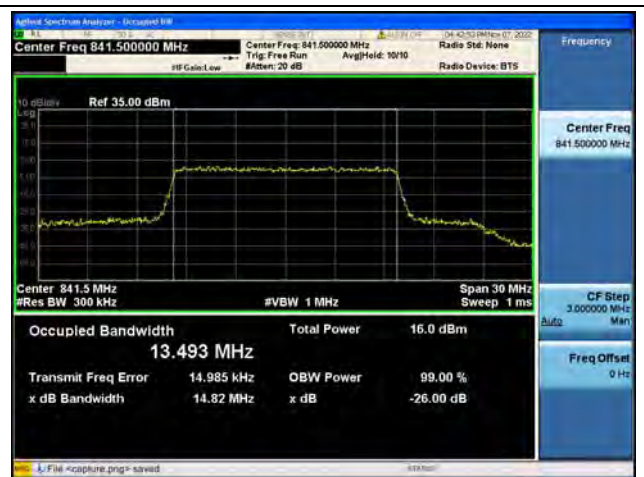
Band26Part22 / 15MHz / 16QAM/ Mid CH



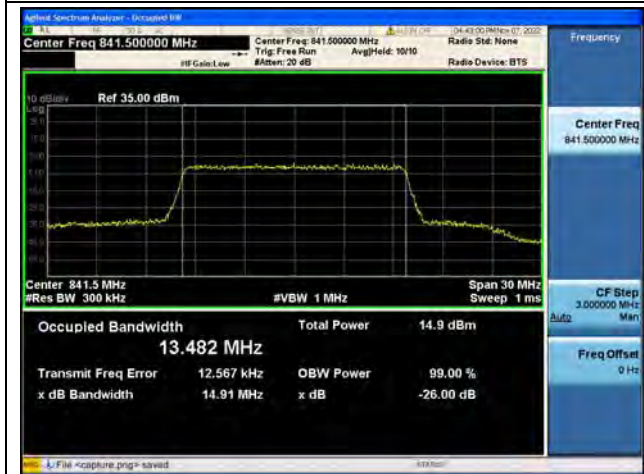
Band26Part22 / 15MHz / 64QAM/ Mid CH



Band26Part22 / 15MHz / QPSK/ High CH



Band26Part22 / 15MHz / 16QAM/ High CH



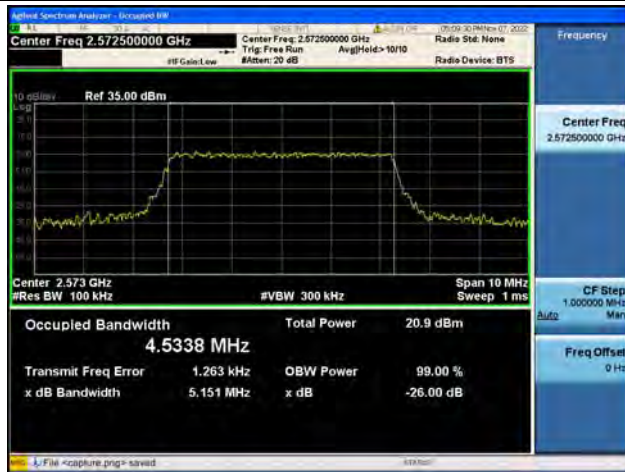
Band26Part22 / 15MHz / 64QAM/ High CH



Band38 / 5MHz / QPSK/ Low CH



Band38 / 5MHz / 16QAM/ Low CH



Band38 / 5MHz / 64QAM/ Low CH



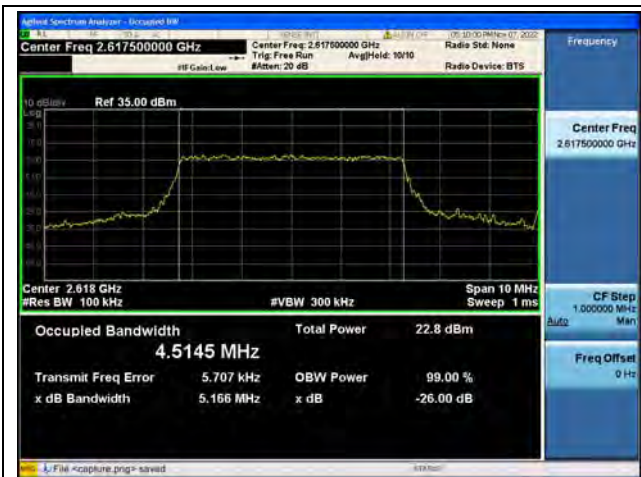
Band38 / 5MHz / QPSK/ Mid CH



Band38 / 5MHz / 16QAM/ Mid CH



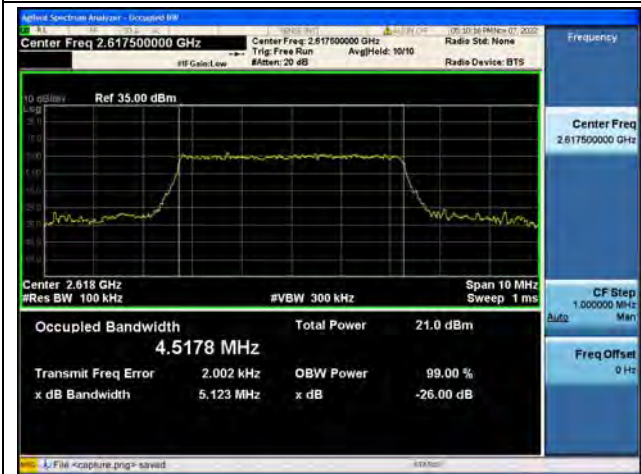
Band38 / 5MHz / 64QAM/ Mid CH



Band38 / 5MHz / QPSK/ High CH



Band38 / 5MHz / 16QAM/ High CH



Band38 / 5MHz / 64QAM/ High CH



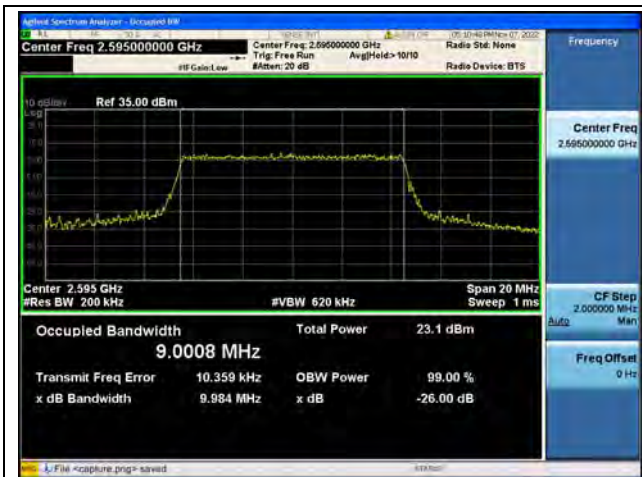
Band38 / 10MHz / QPSK/ Low CH



Band38 / 10MHz / 16QAM/ Low CH



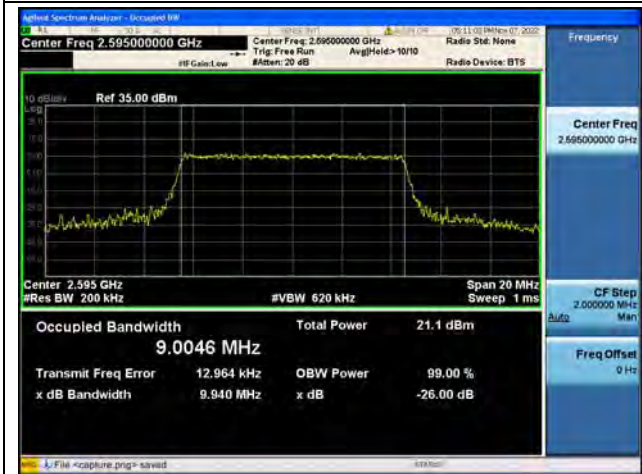
Band38 / 10MHz / 64QAM/ Low CH



Band38 / 10MHz / QPSK/ Mid CH



Band38 / 10MHz / 16QAM/ Mid CH



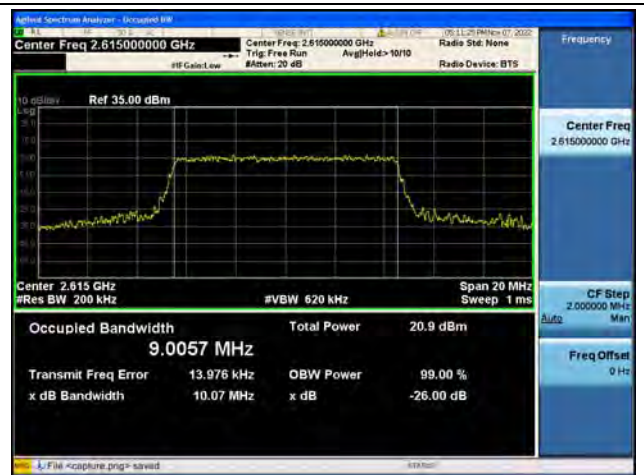
Band38 / 10MHz / 64QAM/ Mid CH



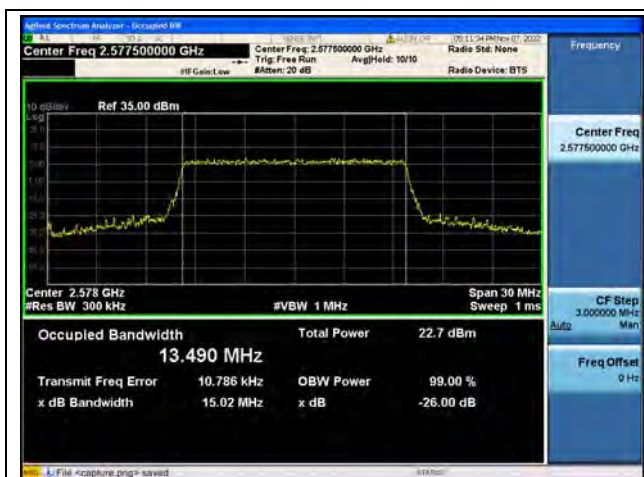
Band38 / 10MHz / QPSK/ High CH



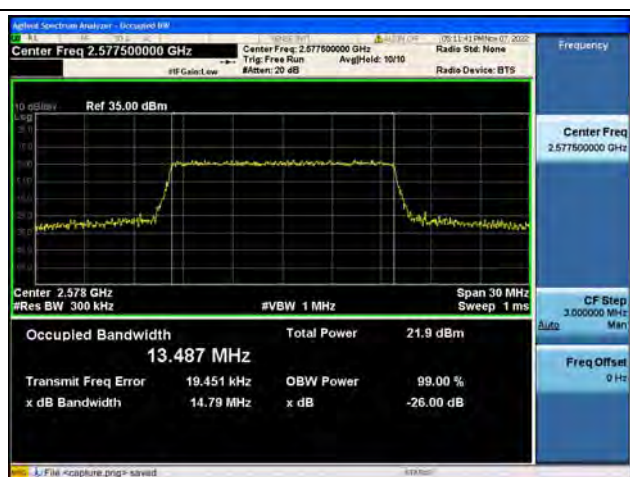
Band38 / 10MHz / 16QAM/ High CH



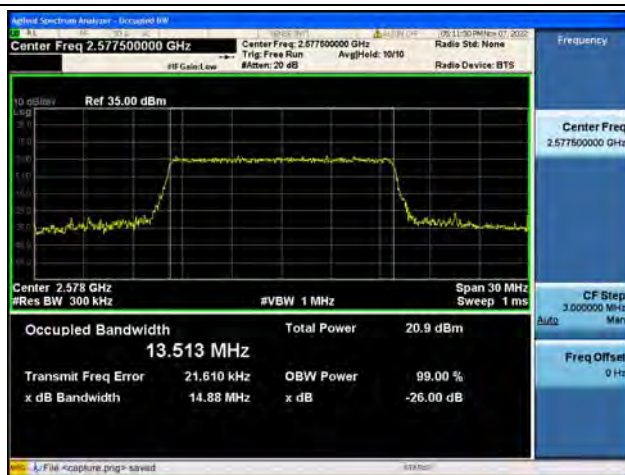
Band38 / 10MHz / 64QAM/ High CH



Band38 / 15MHz / QPSK/ Low CH



Band38 / 15MHz / 16QAM/ Low CH



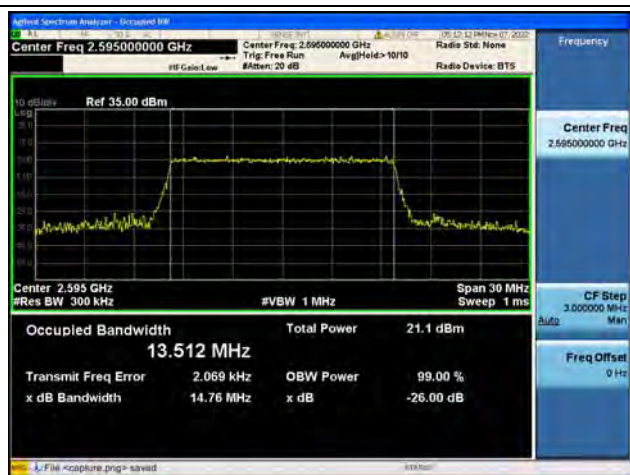
Band38 / 15MHz / 64QAM/ Low CH



Band38 / 15MHz / QPSK/ Mid CH



Band38 / 15MHz / 16QAM/ Mid CH



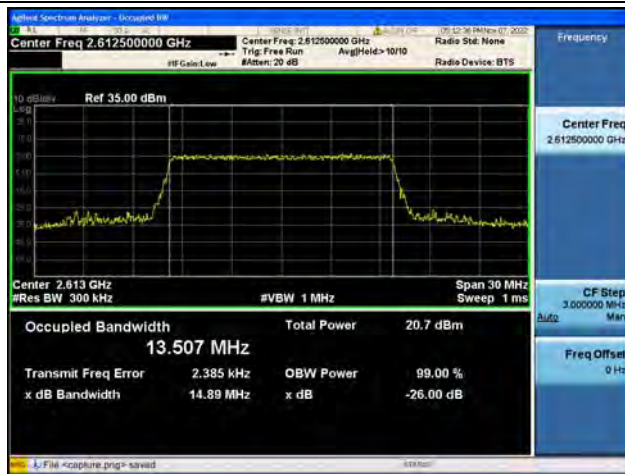
Band38 / 15MHz / 64QAM/ Mid CH



Band38 / 15MHz / QPSK/ High CH



Band38 / 15MHz / 16QAM/ High CH



Band38 / 15MHz / 64QAM/ High CH



Band38 / 20MHz / QPSK/ Low CH



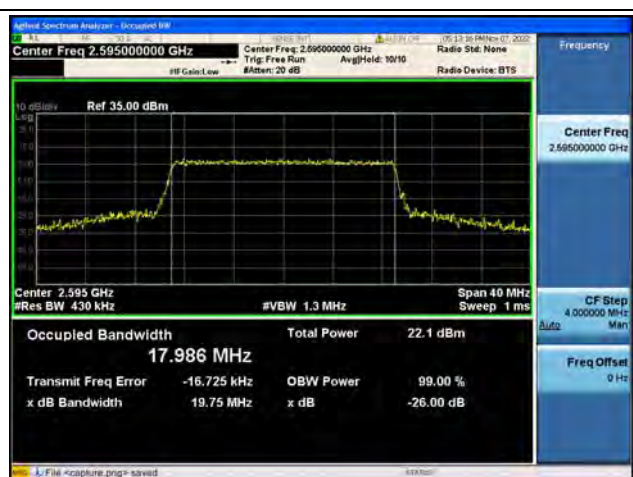
Band38 / 20MHz / 16QAM/ Low CH



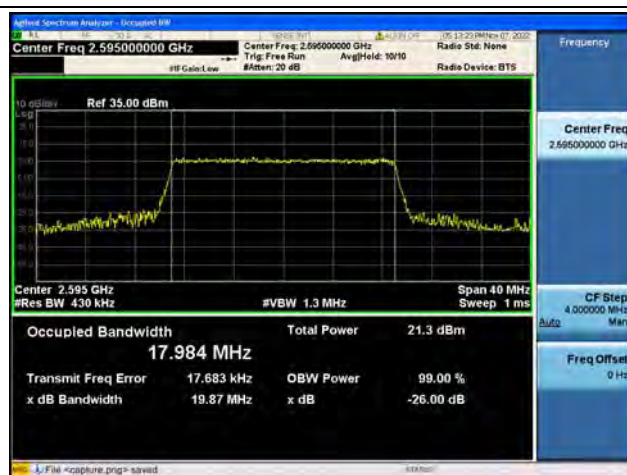
Band38 / 20MHz / 64QAM/ Low CH



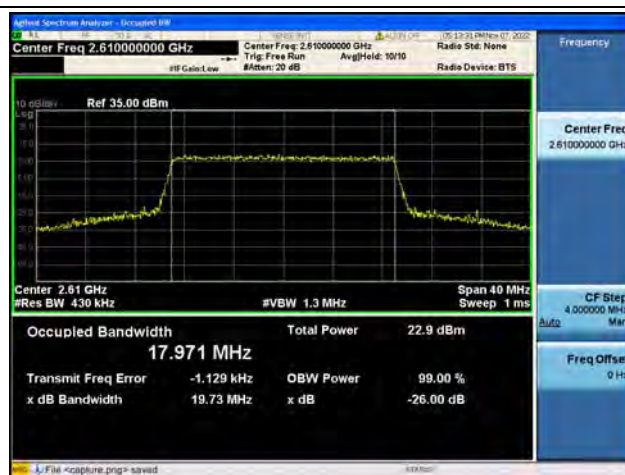
Band38 / 20MHz / QPSK/ Mid CH



Band38 / 20MHz / 16QAM/ Mid CH



Band38 / 20MHz / 64QAM/ Mid CH



Band38 / 20MHz / QPSK/ High CH



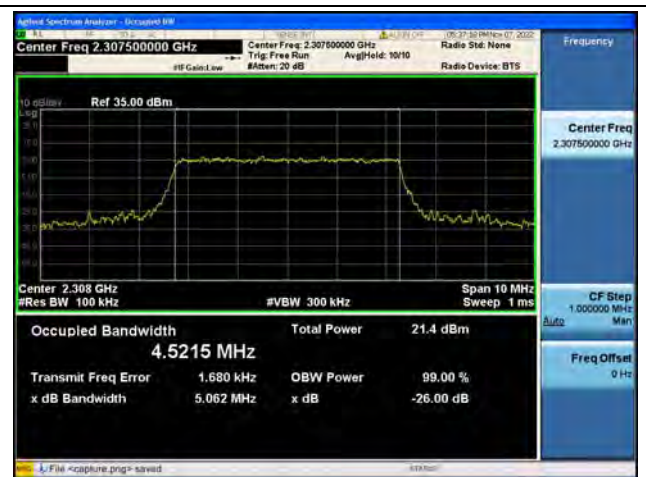
Band38 / 20MHz / 16QAM/ High CH



Band38 / 20MHz / 64QAM/ High CH



Band40-1 / 5MHz / QPSK/ Low CH



Band40-1 / 5MHz / 16QAM/ Low CH



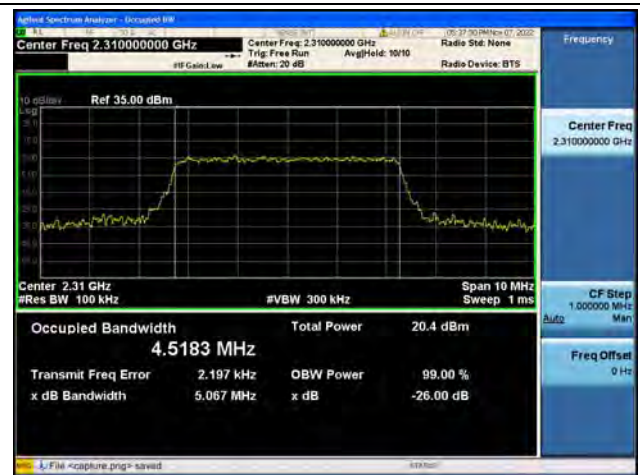
Band40-1 / 5MHz / 64QAM/ Low CH



Band40-1 / 5MHz / QPSK/ Mid CH



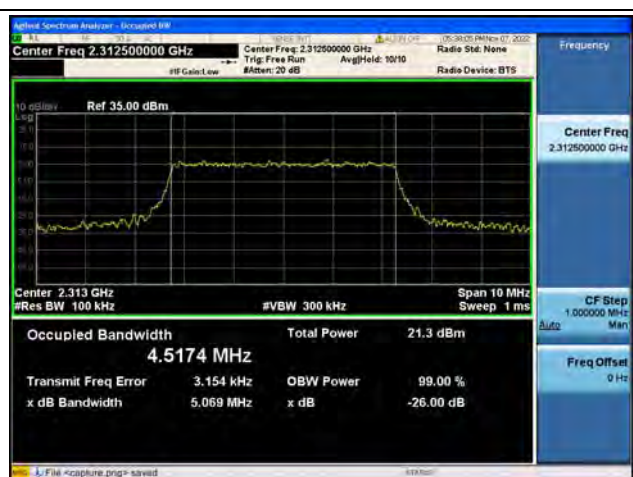
Band40-1 / 5MHz / 16QAM/ Mid CH



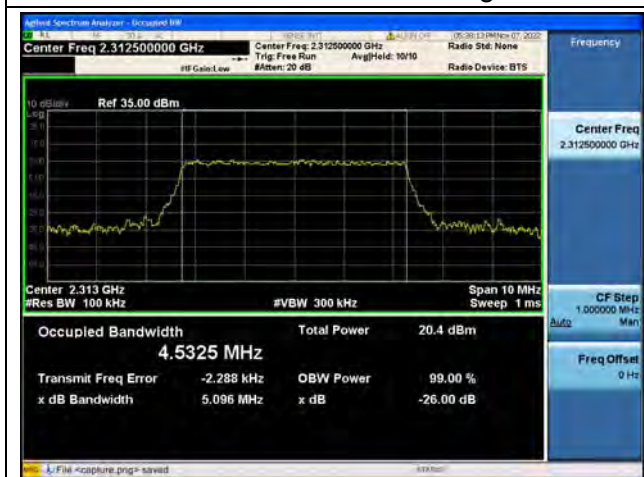
Band40-1 / 5MHz / 64QAM/ Mid CH



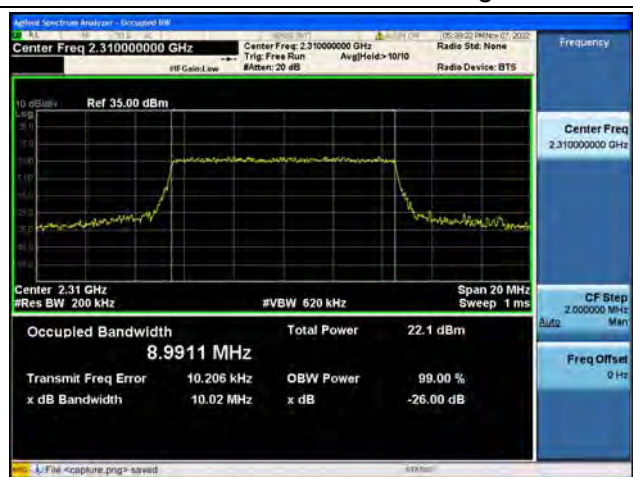
Band40-1 / 5MHz / QPSK/ High CH



Band40-1 / 5MHz / 16QAM/ High CH



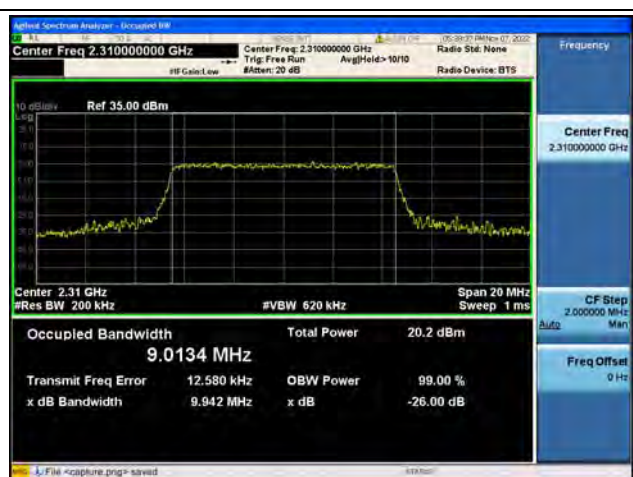
Band40-1 / 5MHz / 64QAM/ High CH



Band40-1 / 10MHz / QPSK/ Mid CH



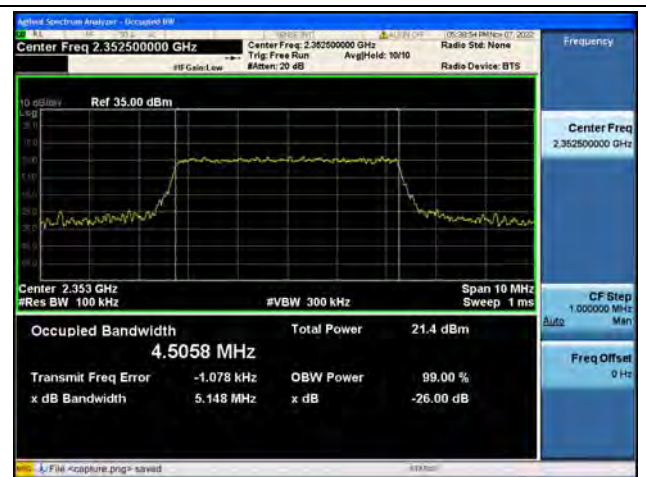
Band40-1 / 10MHz / 16QAM/ Mid CH



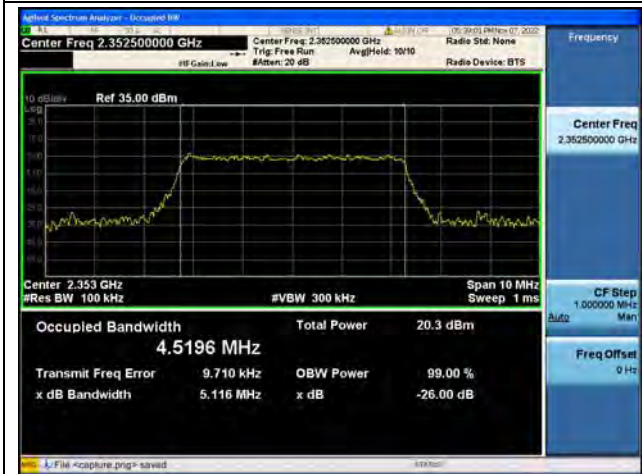
Band40-1 / 10MHz / 64QAM/ Mid CH



Band40-2 / 5MHz / QPSK/ Low CH



Band40-2 / 5MHz / 16QAM/ Low CH



Band40-2 / 5MHz / 64QAM/ Low CH



Band40-2 / 5MHz / QPSK/ Mid CH



Band40-2 / 5MHz / 16QAM/ Mid CH



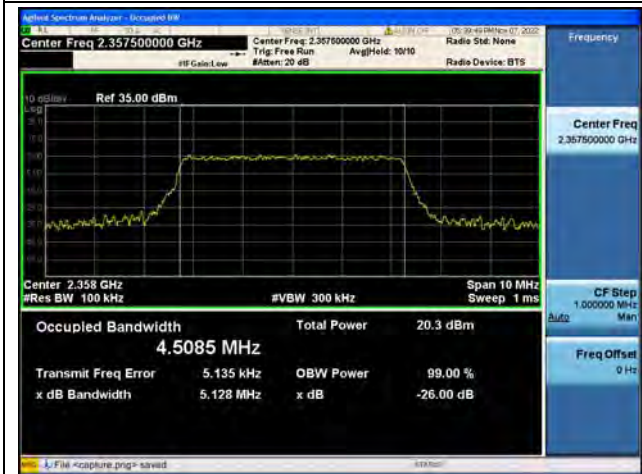
Band40-2 / 5MHz / 64QAM/ Mid CH



Band40-2 / 5MHz / QPSK/ High CH



Band40-2 / 5MHz / 16QAM/ High CH



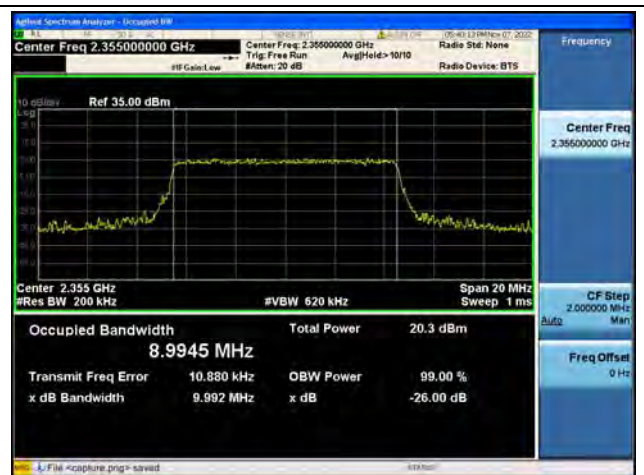
Band40-2 / 5MHz / 64QAM/ High CH



Band40-2 / 10MHz / QPSK/ Mid CH



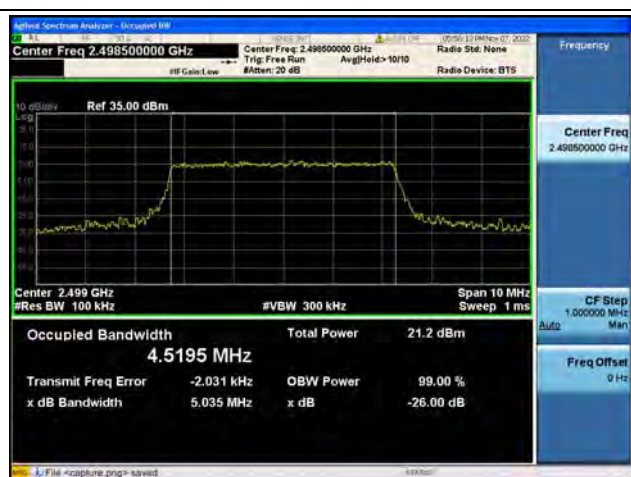
Band40-2 / 10MHz / 16QAM/ Mid CH



Band40-2 / 10MHz / 64QAM/ Mid CH



Band41 / 5MHz / QPSK/ Low CH



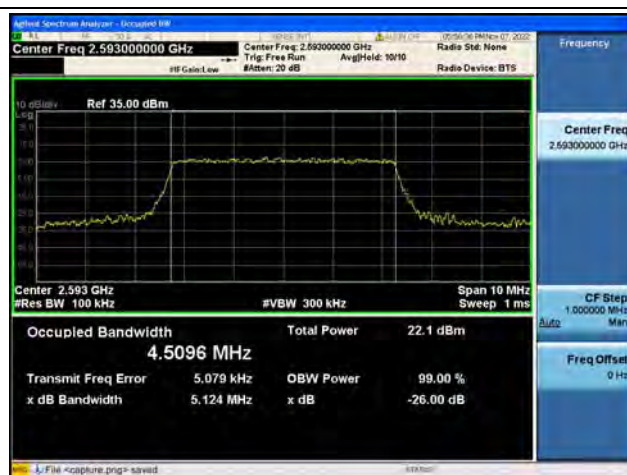
Band41 / 5MHz / 16QAM/ Low CH



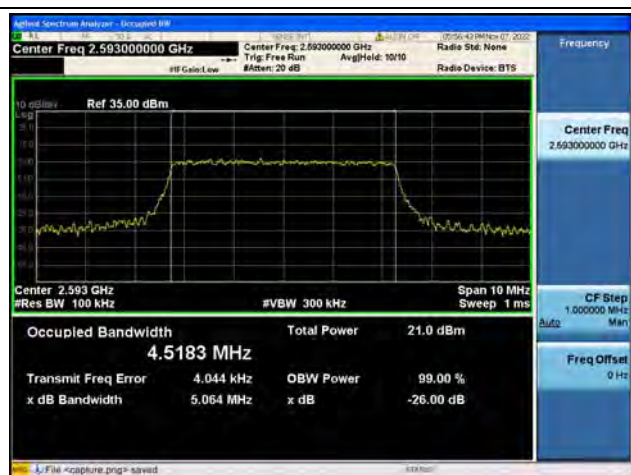
Band41 / 5MHz / 64QAM/ Low CH



Band41 / 5MHz / QPSK/ Mid CH



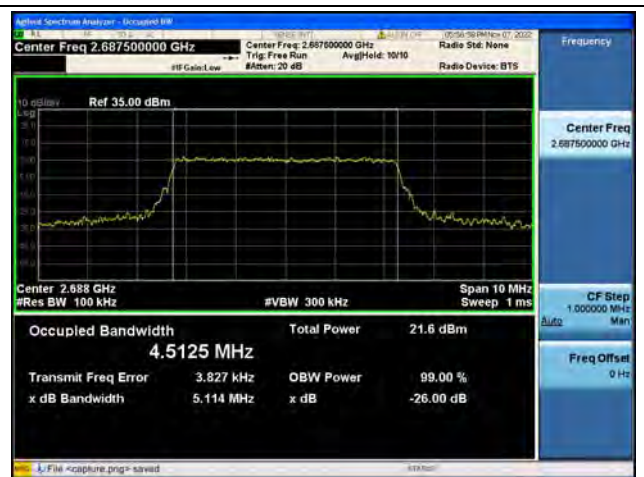
Band41 / 5MHz / 16QAM/ Mid CH



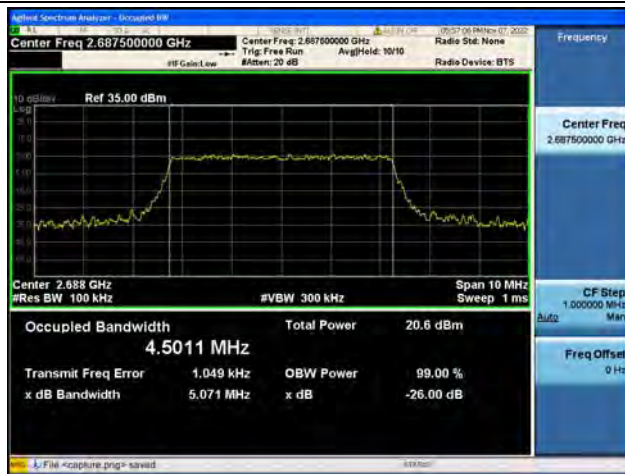
Band41 / 5MHz / 64QAM/ Mid CH



Band41 / 5MHz / QPSK/ High CH



Band41 / 5MHz / 16QAM/ High CH



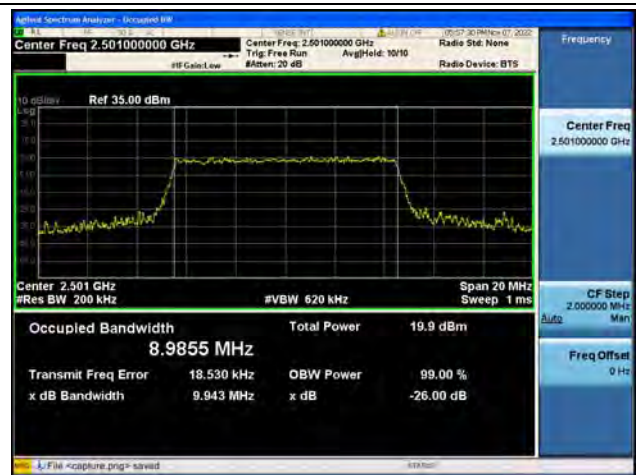
Band41 / 5MHz / 64QAM/ High CH



Band41 / 10MHz / QPSK/ Low CH



Band41 / 10MHz / 16QAM/ Low CH



Band41 / 10MHz / 64QAM/ Low CH



Band41 / 10MHz / QPSK/ Mid CH



Band41 / 10MHz / 16QAM/ Mid CH



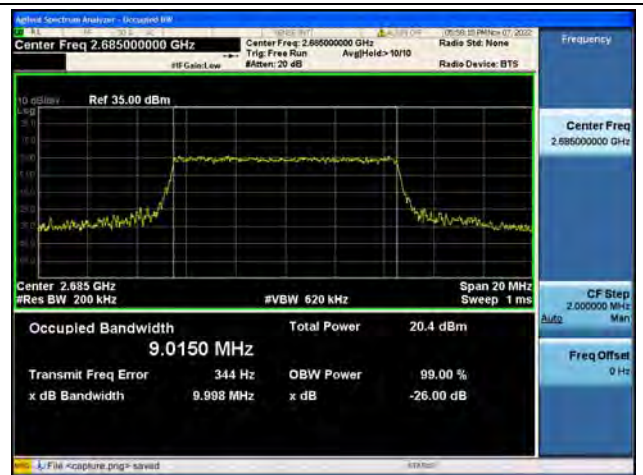
Band41 / 10MHz / 64QAM/ Mid CH



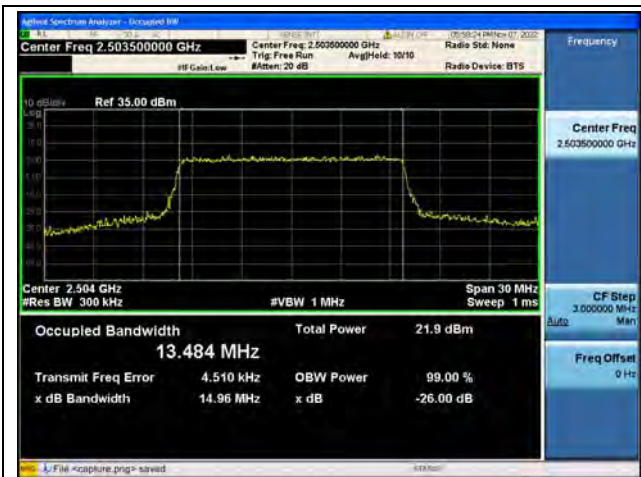
Band41 / 10MHz / QPSK/ High CH



Band41 / 10MHz / 16QAM/ High CH



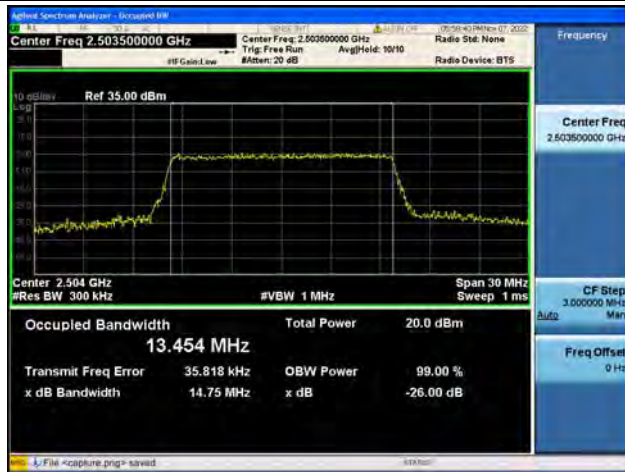
Band41 / 10MHz / 64QAM/ High CH



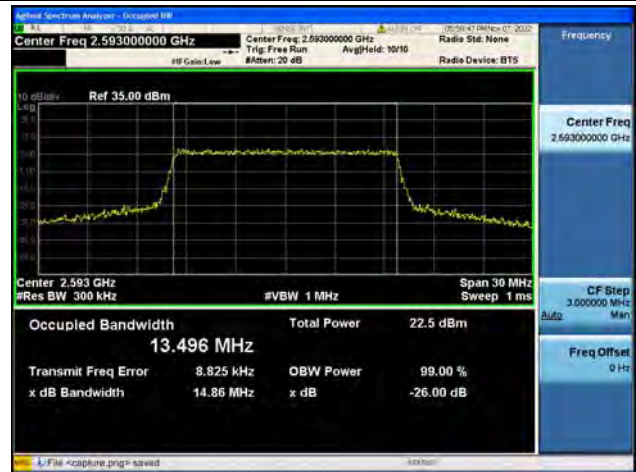
Band41 / 15MHz / QPSK/ Low CH



Band41 / 15MHz / 16QAM/ Low CH



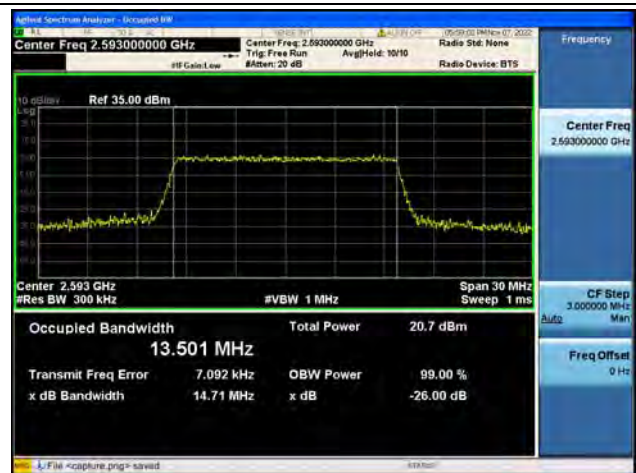
Band41 / 15MHz / 64QAM/ Low CH



Band41 / 15MHz / QPSK/ Mid CH



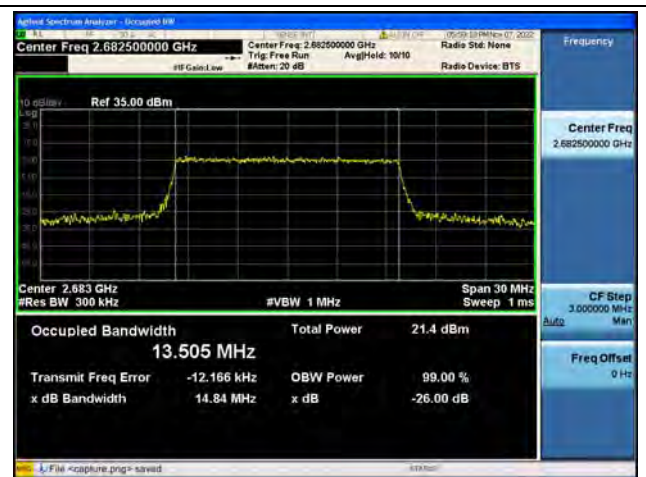
Band41 / 15MHz / 16QAM/ Mid CH



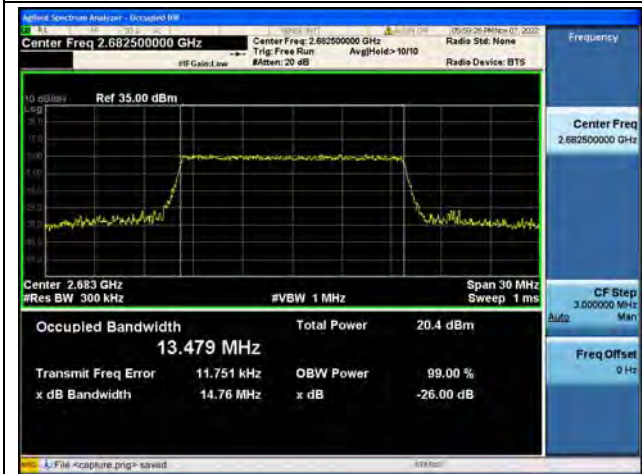
Band41 / 15MHz / 64QAM/ Mid CH



Band41 / 15MHz / QPSK/ High CH



Band41 / 15MHz / 16QAM/ High CH



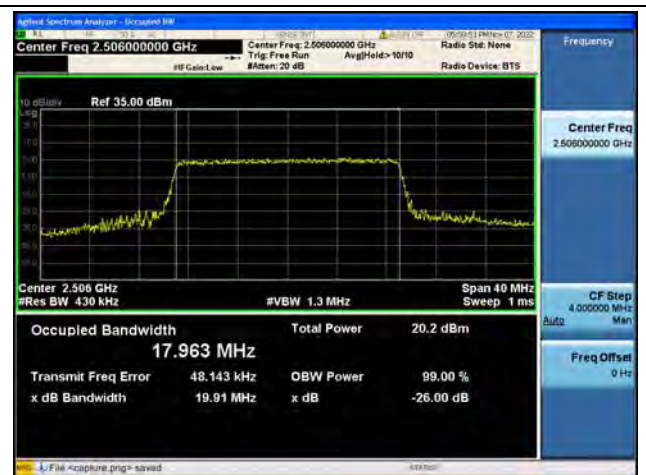
Band41 / 15MHz / 64QAM/ High CH



Band41 / 20MHz / QPSK/ Low CH



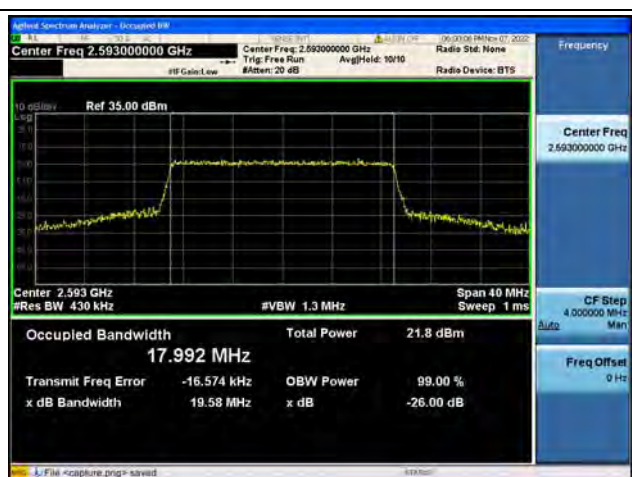
Band41 / 20MHz / 16QAM/ Low CH



Band41 / 20MHz / 64QAM/ Low CH



Band41 / 20MHz / QPSK/ Mid CH



Band41 / 20MHz / 16QAM/ Mid CH



Band41 / 20MHz / 64QAM/ Mid CH



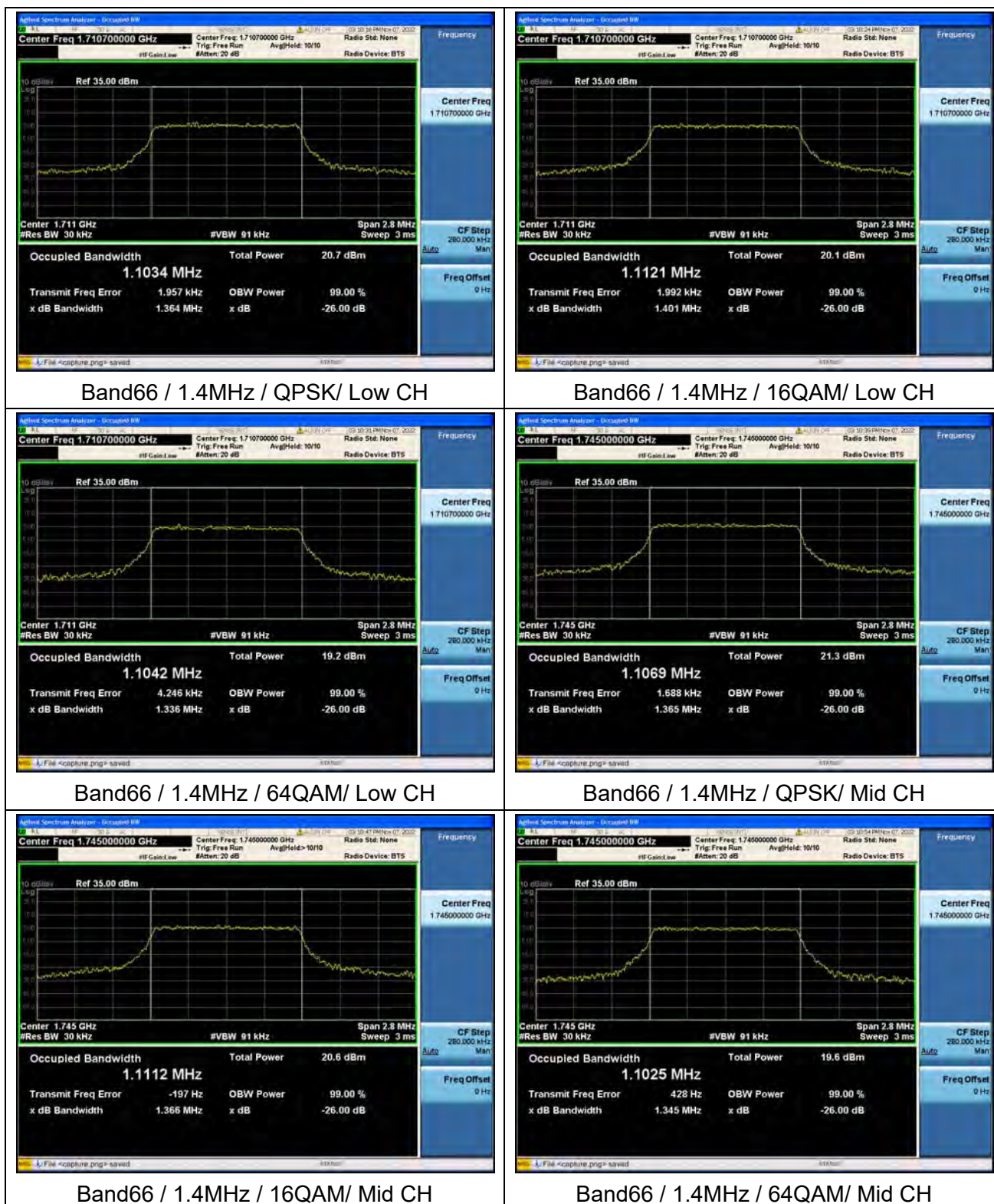
Band41 / 20MHz / QPSK/ High CH



Band41 / 20MHz / 16QAM/ High CH



Band41 / 20MHz / 64QAM/ High CH

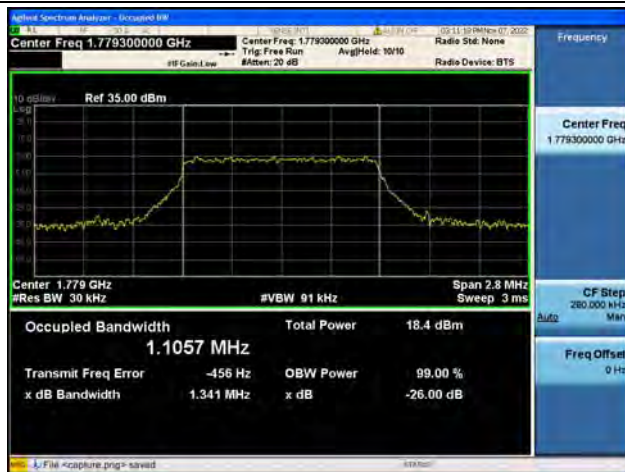




Band66 / 1.4MHz / QPSK/ High CH



Band66 / 1.4MHz / 16QAM/ High CH



Band66 / 1.4MHz / 64QAM/ High CH



Band66 / 3MHz / QPSK/ Low CH



Band66 / 3MHz / 16QAM/ Low CH



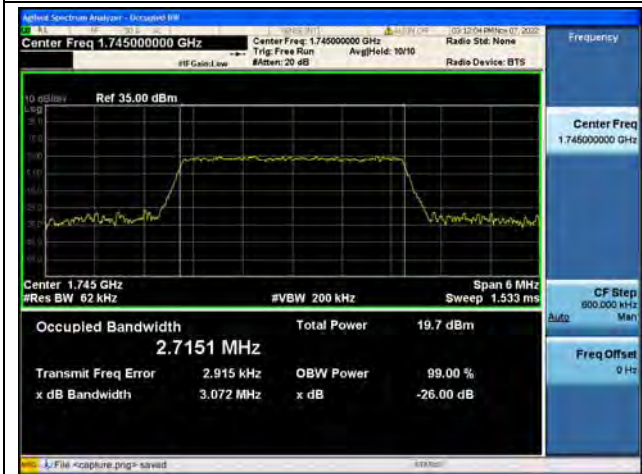
Band66 / 3MHz / 64QAM/ Low CH



Band66 / 3MHz / QPSK/ Mid CH



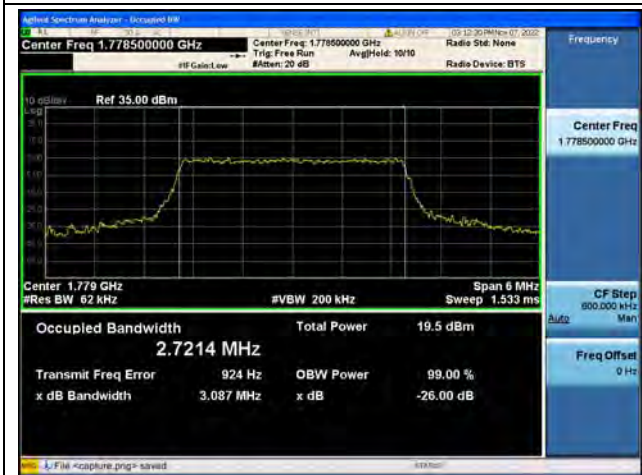
Band66 / 3MHz / 16QAM/ Mid CH



Band66 / 3MHz / 64QAM/ Mid CH



Band66 / 3MHz / QPSK/ High CH



Band66 / 3MHz / 16QAM/ High CH



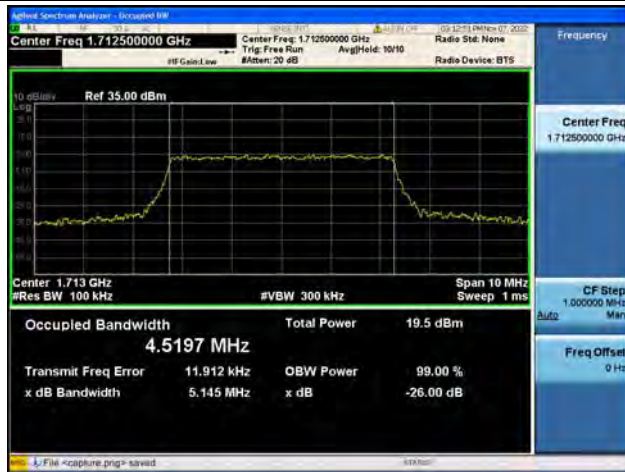
Band66 / 3MHz / 64QAM/ High CH



Band66 / 5MHz / QPSK/ Low CH



Band66 / 5MHz / 16QAM/ Low CH



Band66 / 5MHz / 64QAM/ Low CH



Band66 / 5MHz / QPSK/ Mid CH



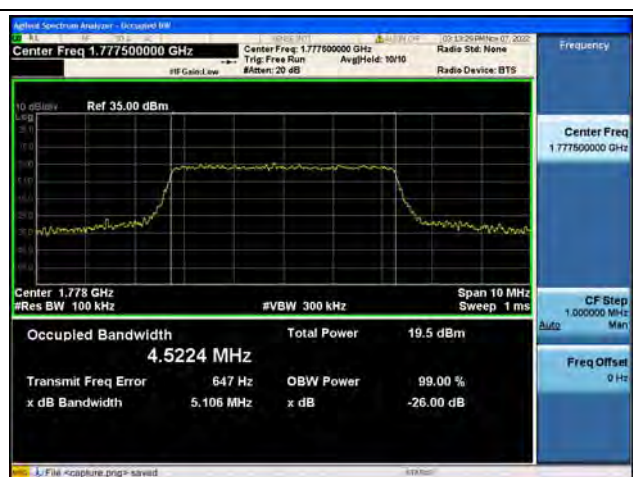
Band66 / 5MHz / 16QAM/ Mid CH



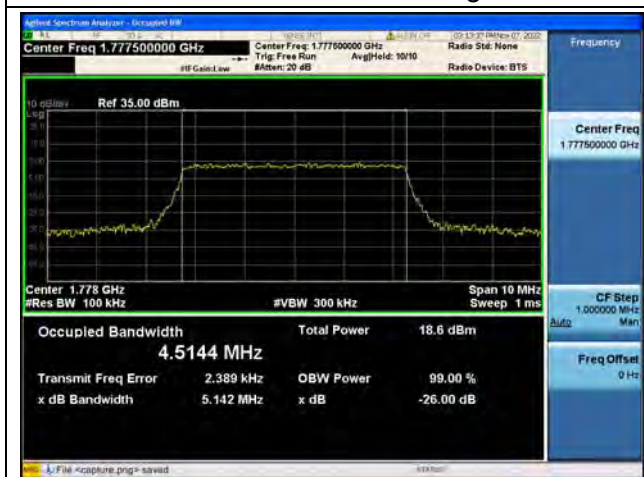
Band66 / 5MHz / 64QAM/ Mid CH



Band66 / 5MHz / QPSK/ High CH



Band66 / 5MHz / 16QAM/ High CH



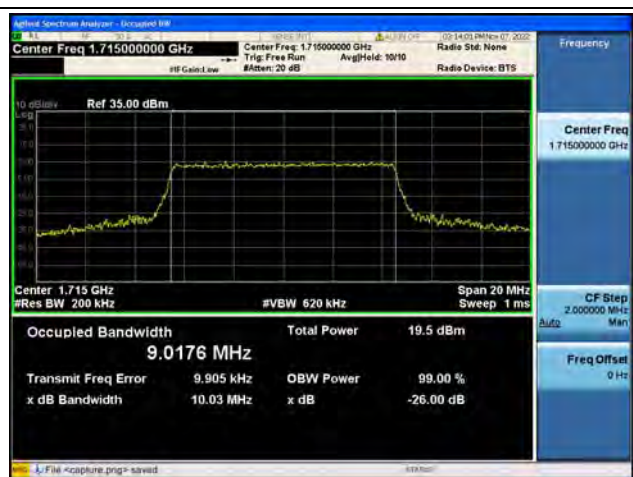
Band66 / 5MHz / 64QAM/ High CH



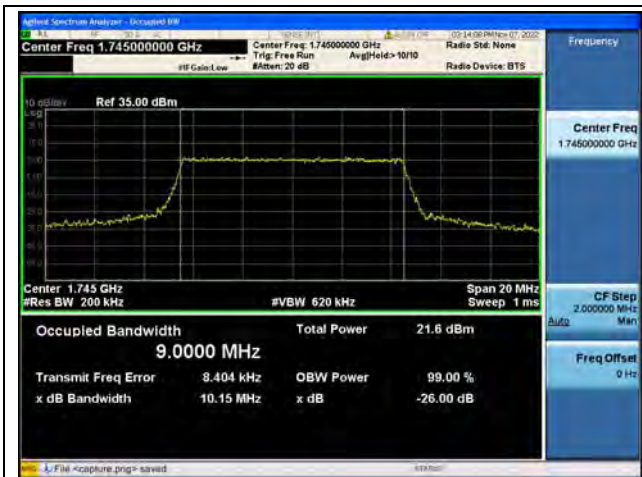
Band66 / 10MHz / QPSK/ Low CH



Band66 / 10MHz / 16QAM/ Low CH



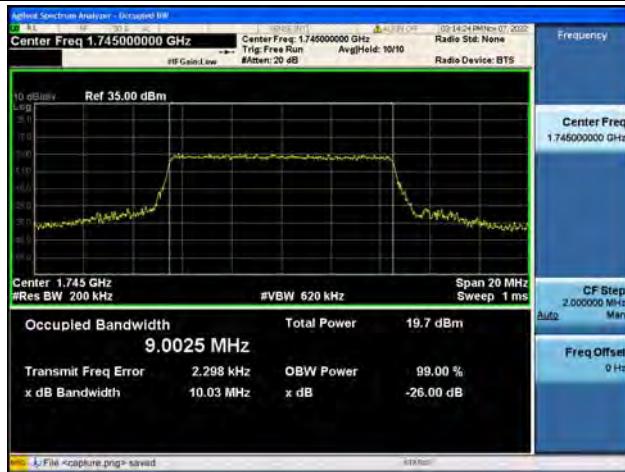
Band66 / 10MHz / 64QAM/ Low CH



Band66 / 10MHz / QPSK/ Mid CH



Band66 / 10MHz / 16QAM/ Mid CH



Band66 / 10MHz / 64QAM/ Mid CH



Band66 / 10MHz / QPSK/ High CH



Band66 / 10MHz / 16QAM/ High CH



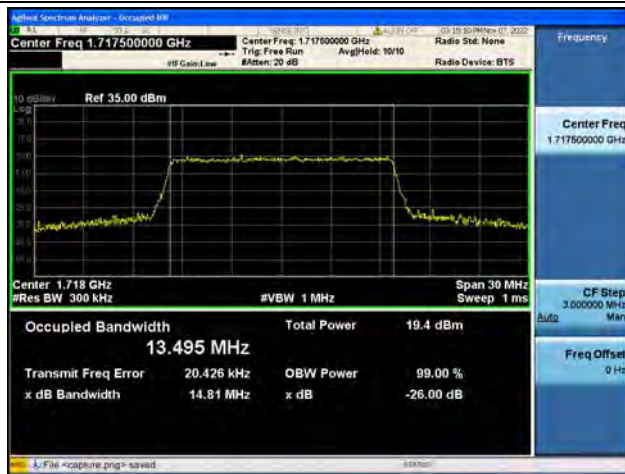
Band66 / 10MHz / 64QAM/ High CH



Band66 / 15MHz / QPSK/ Low CH



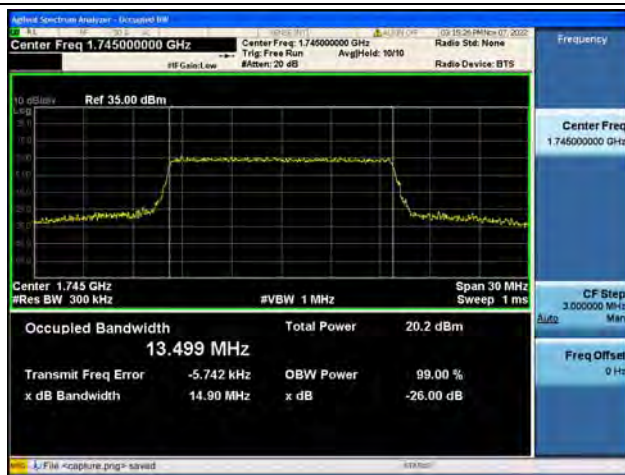
Band66 / 15MHz / 16QAM/ Low CH



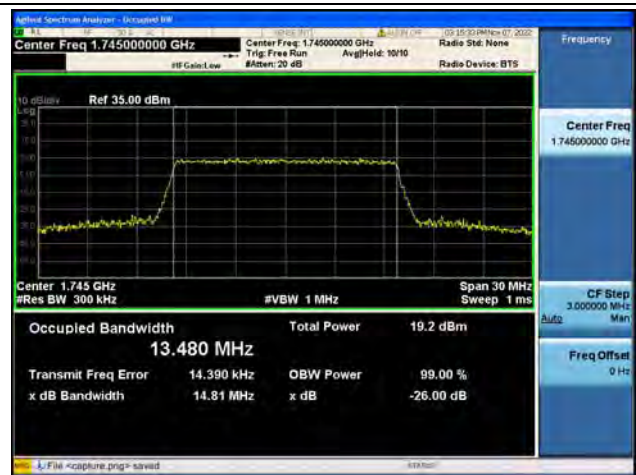
Band66 / 15MHz / 64QAM/ Low CH



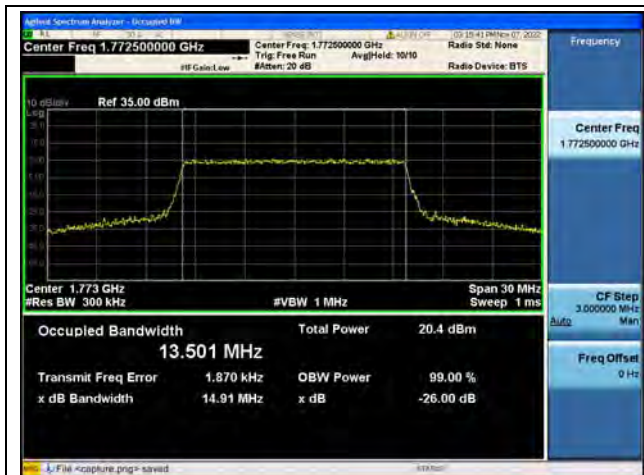
Band66 / 15MHz / QPSK/ Mid CH



Band66 / 15MHz / 16QAM/ Mid CH



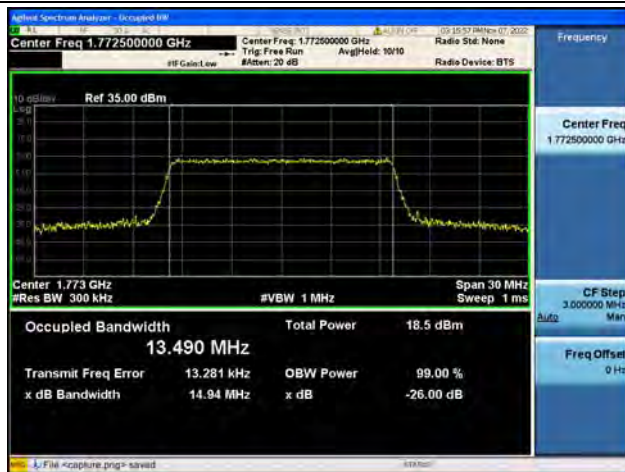
Band66 / 15MHz / 64QAM/ Mid CH



Band66 / 15MHz / QPSK/ High CH



Band66 / 15MHz / 16QAM/ High CH



Band66 / 15MHz / 64QAM/ High CH



Band66 / 20MHz / QPSK/ Low CH



Band66 / 20MHz / 16QAM/ Low CH



Band66 / 20MHz / 64QAM/ Low CH



Band66 / 20MHz / QPSK/ Mid CH



Band66 / 20MHz / 16QAM/ Mid CH



Band66 / 20MHz / 64QAM/ Mid CH



Band66 / 20MHz / QPSK/ High CH



Band66 / 20MHz / 16QAM/ High CH



Band66 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

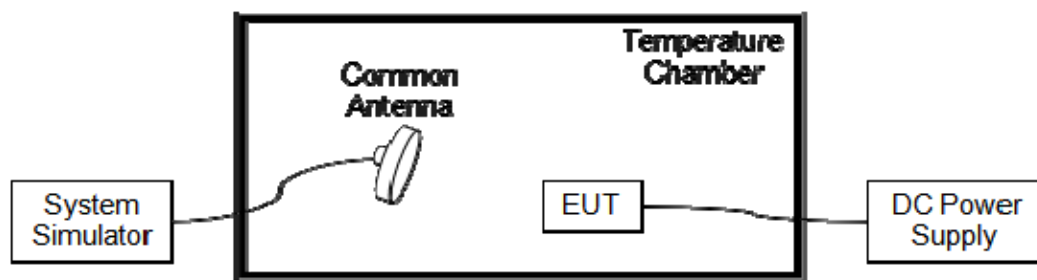
2.3.1. Requirement

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°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°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°C to 40°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 7.78V, 8.90V and 7.00V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	-44	-0.023	PASS
Normal		0	15	0.008	
Normal		+10	-33	-0.018	
Normal		+20	47	0.025	
Normal		+30	-15	-0.008	
Normal		+40	51	0.027	
High	8.90	+20	47	0.025	
BATT.ENDPOINT	7.00	+20	21	0.011	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	27	0.016	PASS
Normal		0	35	0.020	
Normal		+10	32	0.018	
Normal		+20	-38	-0.022	
Normal		+30	20	0.012	
Normal		+40	24	0.014	
High	8.90	+20	-39	-0.023	
BATT.ENDPOINT	7.00	+20	40	0.023	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	-21	-0.025	PASS
Normal		0	-59	-0.071	
Normal		+10	21	0.025	
Normal		+20	17	0.020	
Normal		+30	55	0.066	
Normal		+40	-13	-0.016	
High	8.90	+20	-34	-0.041	
BATT.ENDPOINT	7.00	+20	26	0.031	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	-42	-0.017	PASS
Normal		0	31	0.012	
Normal		+10	-43	-0.017	
Normal		+20	20	0.008	
Normal		+30	20	0.008	
Normal		+40	34	0.013	
High	8.90	+20	-38	-0.015	
BATT.ENDPOINT	7.00	+20	48	0.019	





LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	55	0.078	PASS
Normal		0	55	0.078	
Normal		+10	-37	-0.052	
Normal		+20	36	0.051	
Normal		+30	-58	-0.082	
Normal		+40	-20	-0.028	
High	8.90	+20	17	0.024	
BATT.ENDPOINT	7.00	+20	22	0.031	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	49	0.069	PASS
Normal		0	44	0.062	
Normal		+10	44	0.062	
Normal		+20	-15	-0.021	
Normal		+30	37	0.052	
Normal		+40	-59	-0.083	
High	8.90	+20	47	0.066	
BATT.ENDPOINT	7.00	+20	48	0.068	



LTE Band 18, QPSK, Channel 23970, Frequency 827MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	-16	-0.019	PASS
Normal		0	32	0.039	
Normal		+10	40	0.048	
Normal		+20	-35	-0.042	
Normal		+30	50	0.060	
Normal		+40	15	0.018	
High	8.90	+20	43	0.052	
BATT.ENDPOINT	7.00	+20	-40	-0.048	

LTE Band 19, QPSK, Channel 24075, Frequency 837.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	16	0.019	PASS
Normal		0	-20	-0.024	
Normal		+10	44	0.053	
Normal		+20	-38	-0.045	
Normal		+30	37	0.044	
Normal		+40	-23	-0.027	
High	8.90	+20	-16	-0.019	
BATT.ENDPOINT	7.00	+20	45	0.054	



LTE Band 26, QPSK, Channel 26915, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	52	0.062	PASS
Normal		0	-54	-0.065	
Normal		+10	-54	-0.065	
Normal		+20	53	0.063	
Normal		+30	14	0.017	
Normal		+40	48	0.057	
High	8.90	+20	-14	-0.017	
BATT.ENDPOINT	7.00	+20	-13	-0.016	

LTE Band 38, QPSK, Channel 38000, Frequency 2595MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	52	0.020	PASS
Normal		0	44	0.017	
Normal		+10	-29	-0.011	
Normal		+20	45	0.017	
Normal		+30	-58	-0.022	
Normal		+40	-49	-0.019	
High	8.90	+20	-16	-0.006	
BATT.ENDPOINT	7.00	+20	27	0.010	



LTE Band 40, Block A, QPSK, Channel 38750, Frequency 2310MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	49	0.021	PASS
Normal		0	-50	-0.022	
Normal		+10	49	0.021	
Normal		+20	-21	-0.009	
Normal		+30	42	0.018	
Normal		+40	-25	-0.011	
High	8.90	+20	53	0.023	
BATT.ENDPOINT	7.00	+20	35	0.015	

LTE Band 40 Block B, QPSK, Channel 39200, Frequency 2355MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	-58	-0.025	PASS
Normal		0	55	0.023	
Normal		+10	41	0.017	
Normal		+20	-18	-0.008	
Normal		+30	57	0.024	
Normal		+40	32	0.014	
High	8.90	+20	16	0.007	
BATT.ENDPOINT	7.00	+20	33	0.014	





LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	-58	-0.025	PASS
Normal		0	55	0.023	
Normal		+10	41	0.017	
Normal		+20	-18	-0.008	
Normal		+30	57	0.024	
Normal		+40	32	0.014	
High	8.90	+20	16	0.007	
BATT.ENDPOINT	7.00	+20	33	0.014	

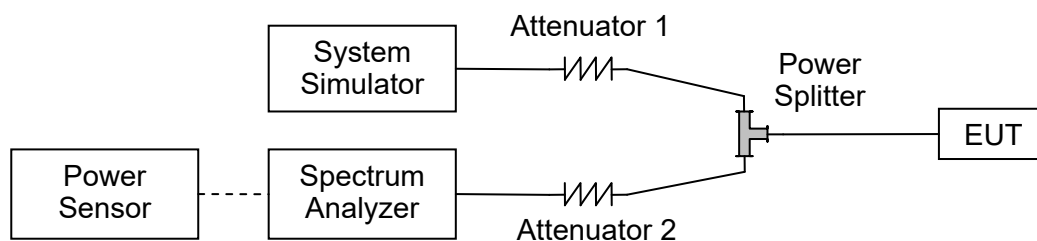
LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	7.78	+20(Ref)	13	0.007	PASS
Normal		0	27	0.015	
Normal		+10	21	0.012	
Normal		+20	37	0.021	
Normal		+30	-26	-0.015	
Normal		+40	32	0.018	
High	8.90	+20	31	0.018	
BATT.ENDPOINT	7.00	+20	53	0.030	

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	4.47	<=13	PASS
	Low	16QAM	5.45	<=13	PASS
	Low	64QAM	6.41	<=13	PASS
	Mid	QPSK	4.46	<=13	PASS
	Mid	16QAM	5.44	<=13	PASS
	Mid	64QAM	6.37	<=13	PASS
	High	QPSK	4.33	<=13	PASS
	High	16QAM	5.43	<=13	PASS
	High	64QAM	6.17	<=13	PASS
3	Low	QPSK	4.59	<=13	PASS
	Low	16QAM	5.59	<=13	PASS
	Low	64QAM	6.51	<=13	PASS
	Mid	QPSK	4.62	<=13	PASS
	Mid	16QAM	5.58	<=13	PASS
	Mid	64QAM	6.48	<=13	PASS
	High	QPSK	4.58	<=13	PASS
	High	16QAM	5.42	<=13	PASS
	High	64QAM	6.35	<=13	PASS
5	Low	QPSK	4.83	<=13	PASS
	Low	16QAM	5.89	<=13	PASS
	Low	64QAM	6.53	<=13	PASS
	Mid	QPSK	4.81	<=13	PASS
	Mid	16QAM	5.84	<=13	PASS
	Mid	64QAM	6.51	<=13	PASS
	High	QPSK	4.79	<=13	PASS
	High	16QAM	5.73	<=13	PASS
	High	64QAM	6.41	<=13	PASS
10	Low	QPSK	4.93	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Low	64QAM	6.49	<=13	PASS
	Mid	QPSK	4.93	<=13	PASS
	Mid	16QAM	5.84	<=13	PASS
	Mid	64QAM	6.50	<=13	PASS
	High	QPSK	4.90	<=13	PASS
	High	16QAM	5.78	<=13	PASS
	High	64QAM	6.44	<=13	PASS



15	Low	QPSK	4.62	≤ 13	PASS
	Low	16QAM	5.71	≤ 13	PASS
	Low	64QAM	6.44	≤ 13	PASS
	Mid	QPSK	4.67	≤ 13	PASS
	Mid	16QAM	5.68	≤ 13	PASS
	Mid	64QAM	6.45	≤ 13	PASS
	High	QPSK	4.67	≤ 13	PASS
	High	16QAM	5.65	≤ 13	PASS
	High	64QAM	6.38	≤ 13	PASS
20	Low	QPSK	4.79	≤ 13	PASS
	Low	16QAM	5.74	≤ 13	PASS
	Low	64QAM	6.35	≤ 13	PASS
	Mid	QPSK	4.74	≤ 13	PASS
	Mid	16QAM	5.79	≤ 13	PASS
	Mid	64QAM	6.43	≤ 13	PASS
	High	QPSK	4.73	≤ 13	PASS
	High	16QAM	5.76	≤ 13	PASS
	High	64QAM	6.36	≤ 13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.37	<=13	PASS
	Low	16QAM	5.25	<=13	PASS
	Low	64QAM	6.18	<=13	PASS
	Mid	QPSK	4.48	<=13	PASS
	Mid	16QAM	5.36	<=13	PASS
	Mid	64QAM	6.34	<=13	PASS
	High	QPSK	4.48	<=13	PASS
	High	16QAM	5.44	<=13	PASS
	High	64QAM	6.36	<=13	PASS
3	Low	QPSK	4.50	<=13	PASS
	Low	16QAM	5.44	<=13	PASS
	Low	64QAM	6.33	<=13	PASS
	Mid	QPSK	4.59	<=13	PASS
	Mid	16QAM	5.57	<=13	PASS
	Mid	64QAM	6.49	<=13	PASS
	High	QPSK	4.61	<=13	PASS
	High	16QAM	5.58	<=13	PASS
	High	64QAM	6.52	<=13	PASS
5	Low	QPSK	4.76	<=13	PASS
	Low	16QAM	5.77	<=13	PASS
	Low	64QAM	6.41	<=13	PASS
	Mid	QPSK	4.84	<=13	PASS
	Mid	16QAM	5.85	<=13	PASS
	Mid	64QAM	6.51	<=13	PASS
	High	QPSK	4.86	<=13	PASS
	High	16QAM	5.86	<=13	PASS
	High	64QAM	6.52	<=13	PASS
10	Low	QPSK	4.88	<=13	PASS
	Low	16QAM	5.81	<=13	PASS
	Low	64QAM	6.41	<=13	PASS
	Mid	QPSK	4.95	<=13	PASS
	Mid	16QAM	5.85	<=13	PASS
	Mid	64QAM	6.48	<=13	PASS
	High	QPSK	4.95	<=13	PASS
	High	16QAM	5.87	<=13	PASS
	High	64QAM	6.53	<=13	PASS



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15	Low	QPSK	4.63	≤ 13	PASS
	Low	16QAM	5.58	≤ 13	PASS
	Low	64QAM	6.31	≤ 13	PASS
	Mid	QPSK	4.70	≤ 13	PASS
	Mid	16QAM	5.69	≤ 13	PASS
	Mid	64QAM	6.46	≤ 13	PASS
	High	QPSK	4.74	≤ 13	PASS
	High	16QAM	5.75	≤ 13	PASS
	High	64QAM	6.51	≤ 13	PASS
20	Low	QPSK	4.77	≤ 13	PASS
	Low	16QAM	5.74	≤ 13	PASS
	Low	64QAM	6.37	≤ 13	PASS
	Mid	QPSK	4.75	≤ 13	PASS
	Mid	16QAM	5.79	≤ 13	PASS
	Mid	64QAM	6.46	≤ 13	PASS
	High	QPSK	4.79	≤ 13	PASS
	High	16QAM	5.84	≤ 13	PASS
	High	64QAM	6.50	≤ 13	PASS





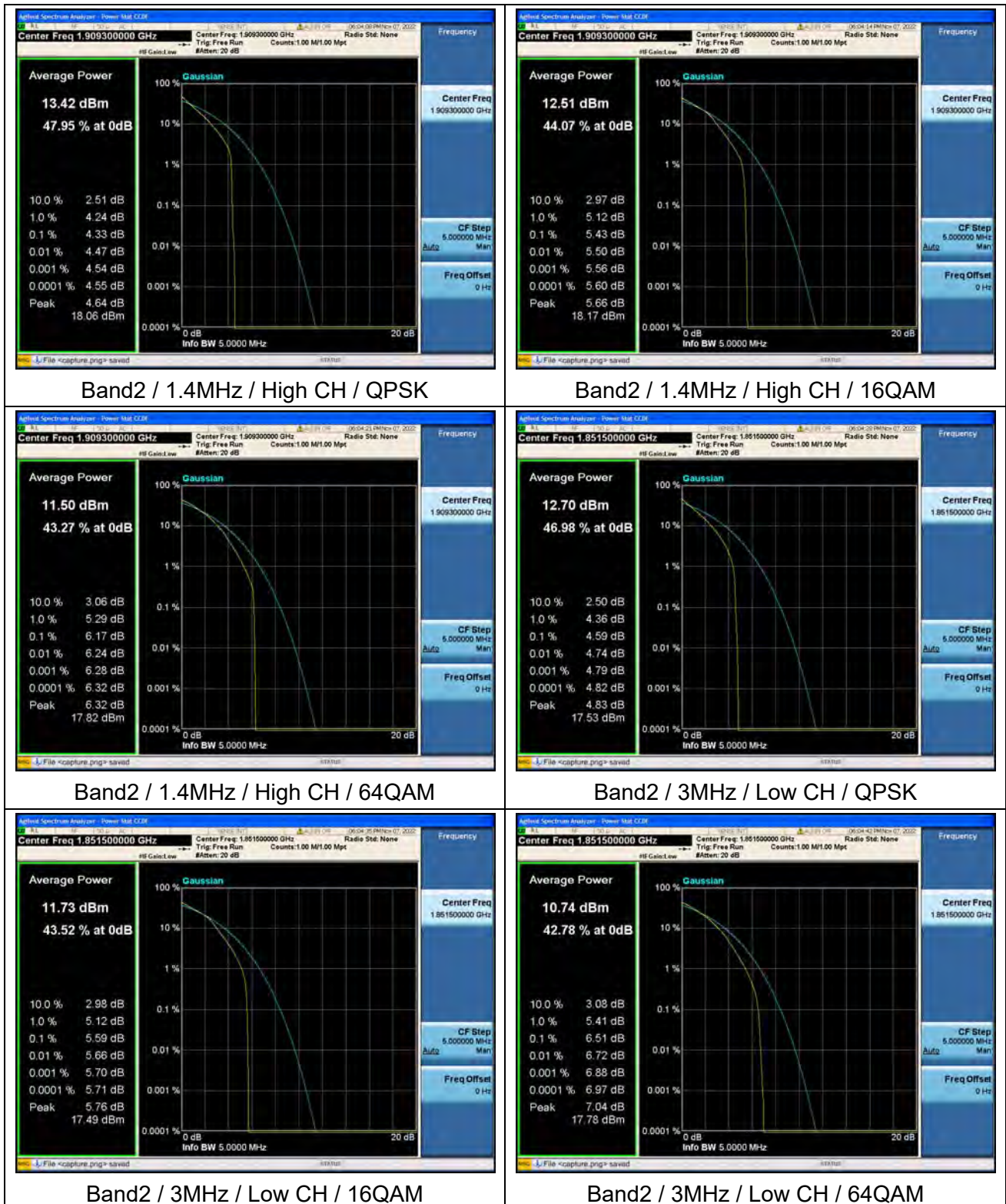
LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.57	<=13	PASS
	Low	16QAM	5.30	<=13	PASS
	Low	64QAM	6.14	<=13	PASS
	Mid	QPSK	4.43	<=13	PASS
	Mid	16QAM	5.30	<=13	PASS
	Mid	64QAM	6.23	<=13	PASS
	High	QPSK	4.48	<=13	PASS
	High	16QAM	5.34	<=13	PASS
	High	64QAM	6.24	<=13	PASS
3	Low	QPSK	4.59	<=13	PASS
	Low	16QAM	5.40	<=13	PASS
	Low	64QAM	6.30	<=13	PASS
	Mid	QPSK	4.53	<=13	PASS
	Mid	16QAM	5.45	<=13	PASS
	Mid	64QAM	6.33	<=13	PASS
	High	QPSK	4.58	<=13	PASS
	High	16QAM	5.48	<=13	PASS
	High	64QAM	6.39	<=13	PASS
5	Low	QPSK	4.82	<=13	PASS
	Low	16QAM	5.74	<=13	PASS
	Low	64QAM	5.74	<=13	PASS
	Mid	QPSK	4.79	<=13	PASS
	Mid	16QAM	5.76	<=13	PASS
	Mid	64QAM	5.77	<=13	PASS
	High	QPSK	4.83	<=13	PASS
	High	16QAM	5.79	<=13	PASS
	High	64QAM	5.78	<=13	PASS
10	Low	QPSK	4.92	<=13	PASS
	Low	16QAM	5.82	<=13	PASS
	Low	64QAM	5.80	<=13	PASS
	Mid	QPSK	4.96	<=13	PASS
	Mid	16QAM	5.83	<=13	PASS
	Mid	64QAM	5.82	<=13	PASS
	High	QPSK	4.97	<=13	PASS
	High	16QAM	5.84	<=13	PASS
	High	64QAM	5.84	<=13	PASS



15	Low	QPSK	4.70	≤ 13	PASS
	Low	16QAM	5.63	≤ 13	PASS
	Low	64QAM	5.66	≤ 13	PASS
	Mid	QPSK	4.70	≤ 13	PASS
	Mid	16QAM	5.66	≤ 13	PASS
	Mid	64QAM	5.64	≤ 13	PASS
	High	QPSK	4.83	≤ 13	PASS
	High	16QAM	5.73	≤ 13	PASS
	High	64QAM	5.72	≤ 13	PASS
20	Low	QPSK	4.77	≤ 13	PASS
	Low	16QAM	5.73	≤ 13	PASS
	Low	64QAM	5.77	≤ 13	PASS
	Mid	QPSK	4.78	≤ 13	PASS
	Mid	16QAM	5.76	≤ 13	PASS
	Mid	64QAM	5.76	≤ 13	PASS
	High	QPSK	5.01	≤ 13	PASS
	High	16QAM	5.89	≤ 13	PASS
	High	64QAM	5.89	≤ 13	PASS









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



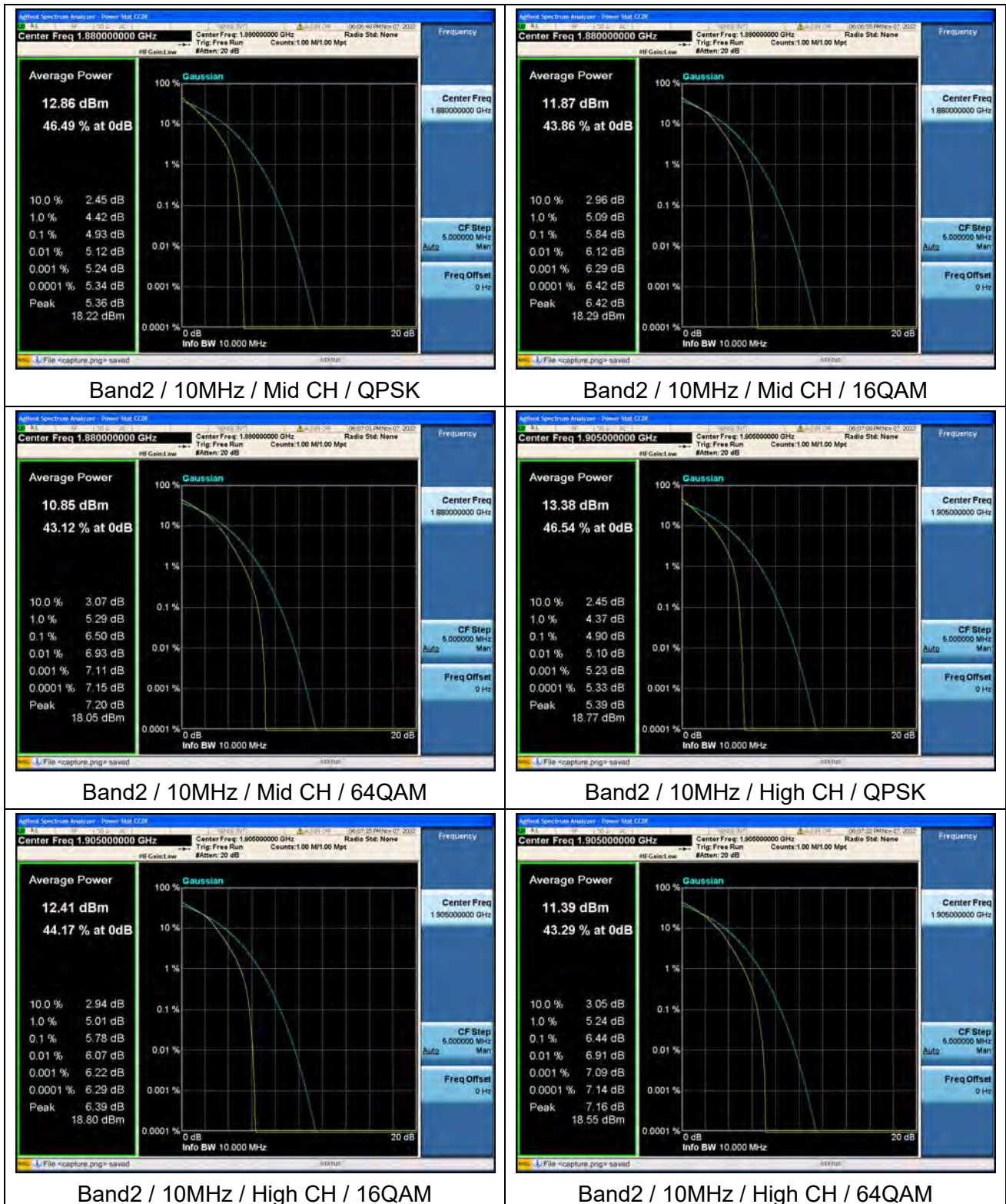
Band2 / 10MHz / Low CH / QPSK

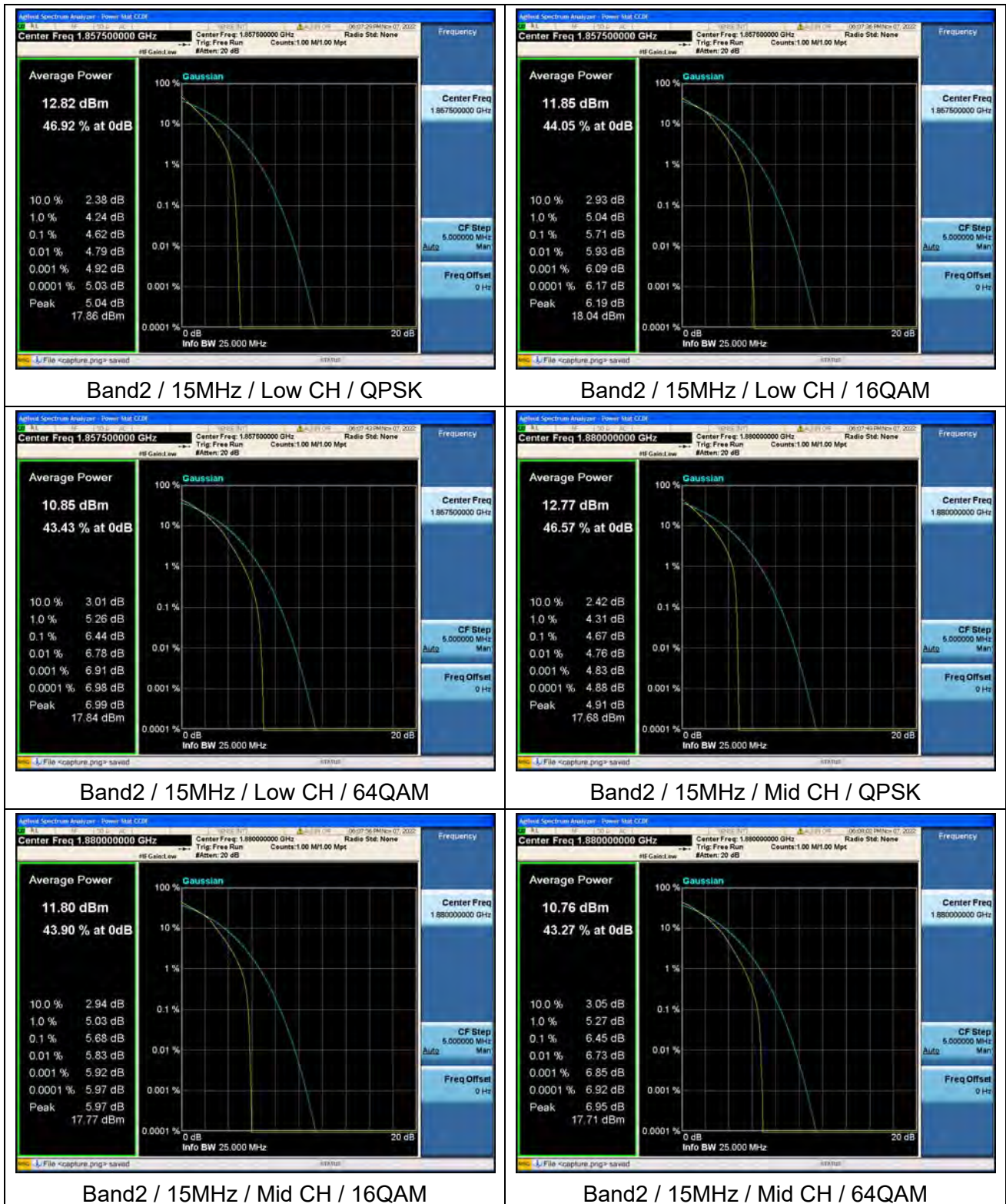


Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Low CH / 64QAM







Band2 / 15MHz / High CH / QPSK



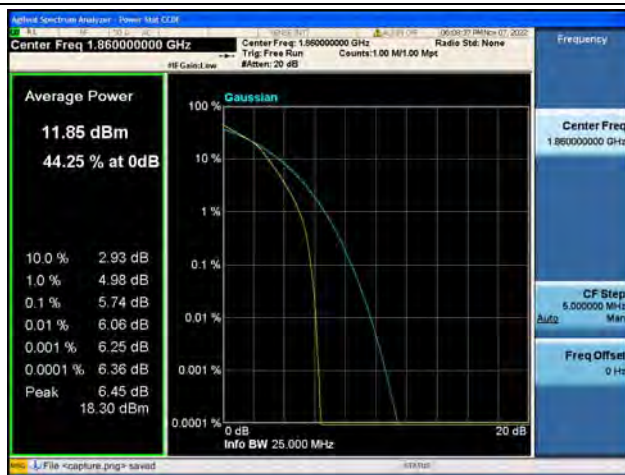
Band2 / 15MHz / High CH / 16QAM



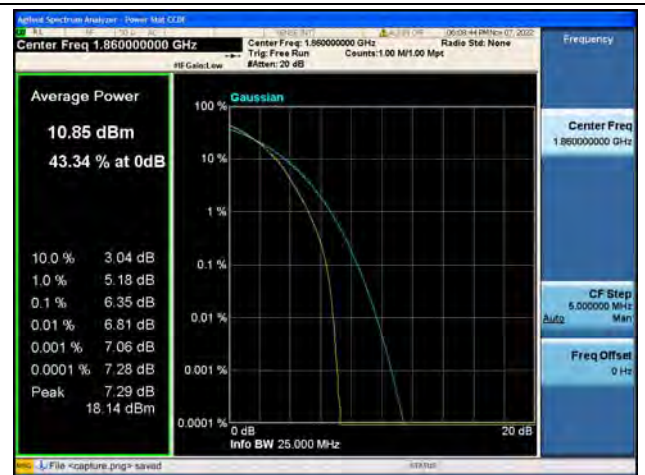
Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Low CH / 64QAM



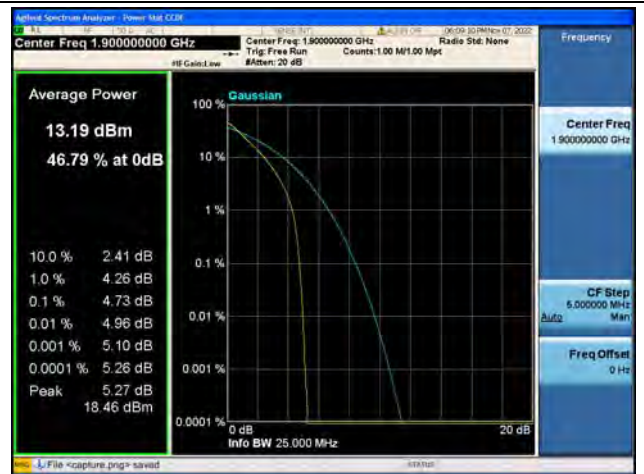
Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM



Band2 / 20MHz / High CH / 64QAM

