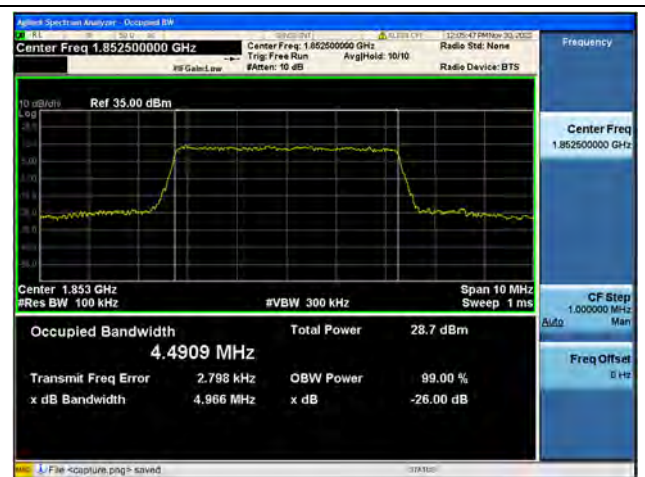
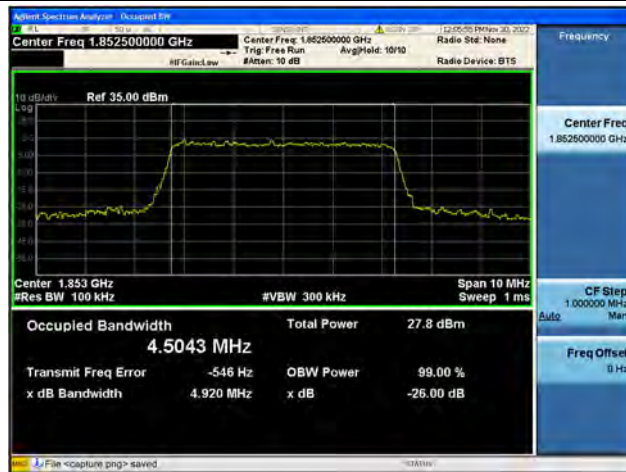




Band25 / 5MHz / QPSK/ Low CH



Band25 / 5MHz / 16QAM/ Low CH



Band25 / 5MHz / 64QAM/ Low CH



Band25 / 5MHz / QPSK/ Mid CH



Band25 / 5MHz / 16QAM/ Mid CH



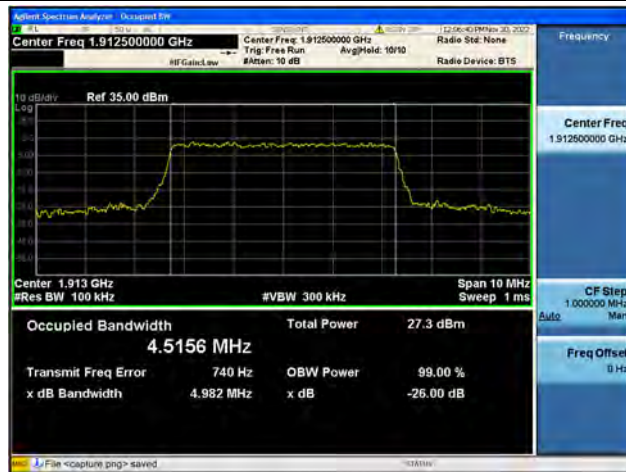
Band25 / 5MHz / 64QAM/ Mid CH



Band25 / 5MHz / QPSK/ High CH



Band25 / 5MHz / 16QAM/ High CH



Band25 / 5MHz / 64QAM/ High CH



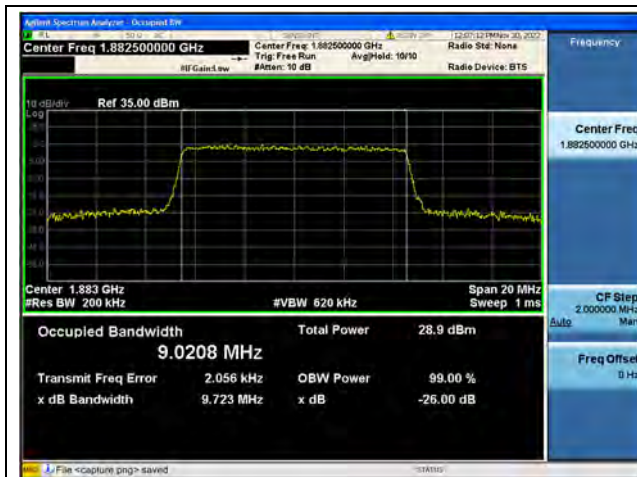
Band25 / 10MHz / QPSK/ Low CH



Band25 / 10MHz / 16QAM/ Low CH



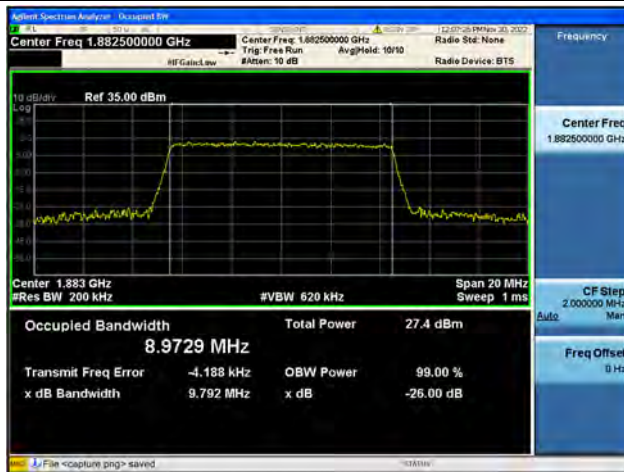
Band25 / 10MHz / 64QAM/ Low CH



Band25 / 10MHz / QPSK/ Mid CH



Band25 / 10MHz / 16QAM/ Mid CH



Band25 / 10MHz / 64QAM/ Mid CH



Band25 / 10MHz / QPSK/ High CH



Band25 / 10MHz / 16QAM/ High CH



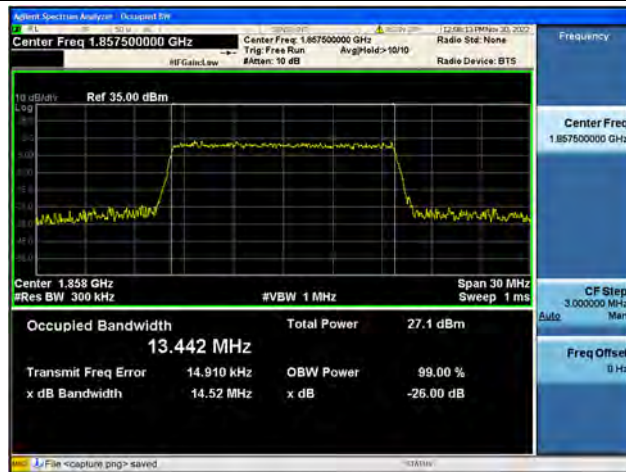
Band25 / 10MHz / 64QAM/ High CH



Band25 / 15MHz / QPSK/ Low CH



Band25 / 15MHz / 16QAM/ Low CH



Band25 / 15MHz / 64QAM/ Low CH



Band25 / 15MHz / QPSK/ Mid CH



Band25 / 15MHz / 16QAM/ Mid CH



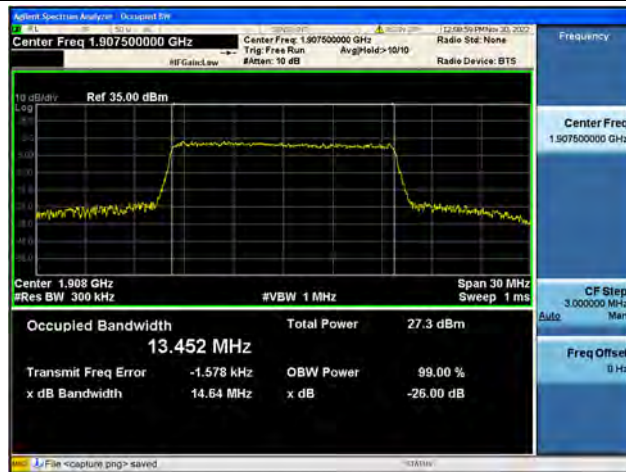
Band25 / 15MHz / 64QAM/ Mid CH



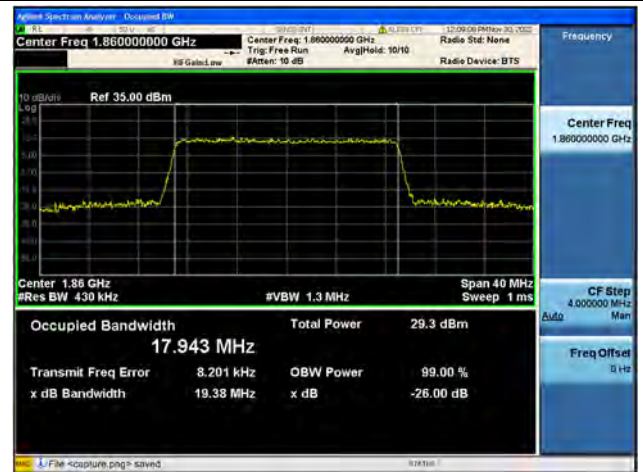
Band25 / 15MHz / QPSK/ High CH



Band25 / 15MHz / 16QAM/ High CH



Band25 / 15MHz / 64QAM/ High CH



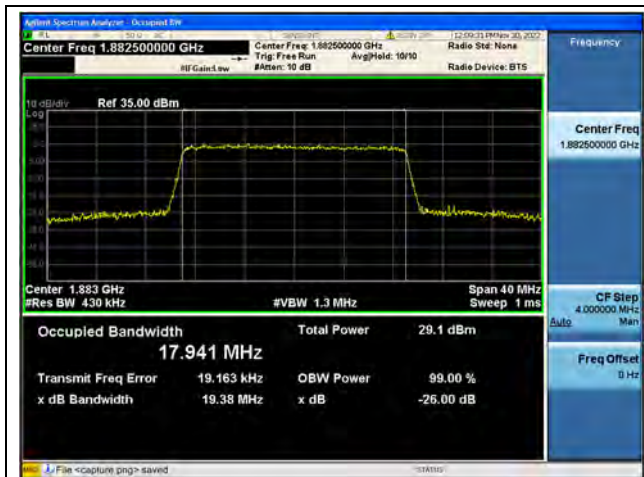
Band25 / 20MHz / QPSK/ Low CH



Band25 / 20MHz / 16QAM/ Low CH



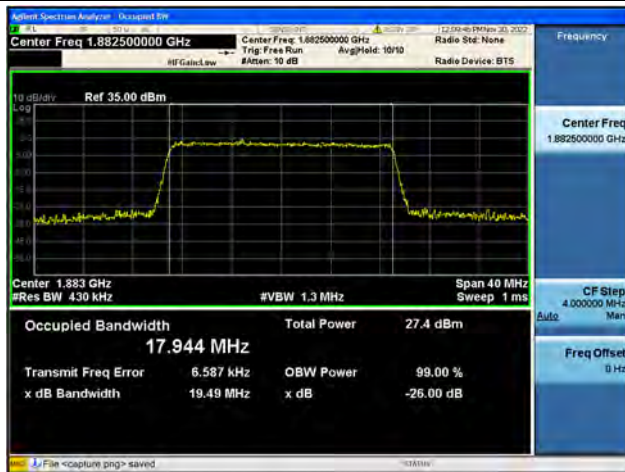
Band25 / 20MHz / 64QAM/ Low CH



Band25 / 20MHz / QPSK/ Mid CH



Band25 / 20MHz / 16QAM/ Mid CH



Band25 / 20MHz / 64QAM/ Mid CH



Band25 / 20MHz / QPSK/ High CH



Band25 / 20MHz / 16QAM/ High CH



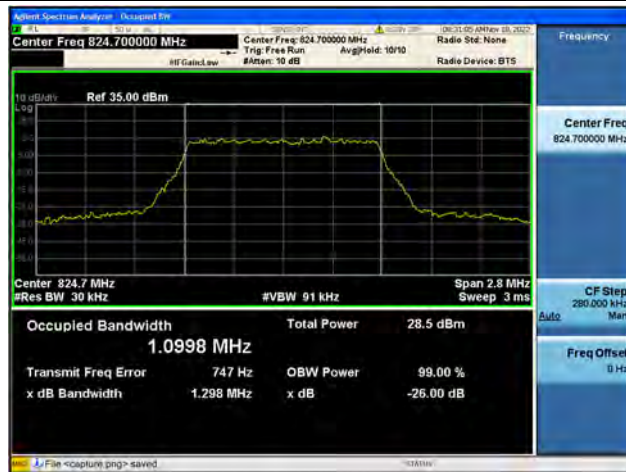
Band25 / 20MHz / 64QAM/ High CH



Band26Part22 / 1.4MHz / QPSK/ Low CH



Band26Part22 / 1.4MHz / 16QAM/ Low CH



Band26Part22 / 1.4MHz / 64QAM/ Low CH



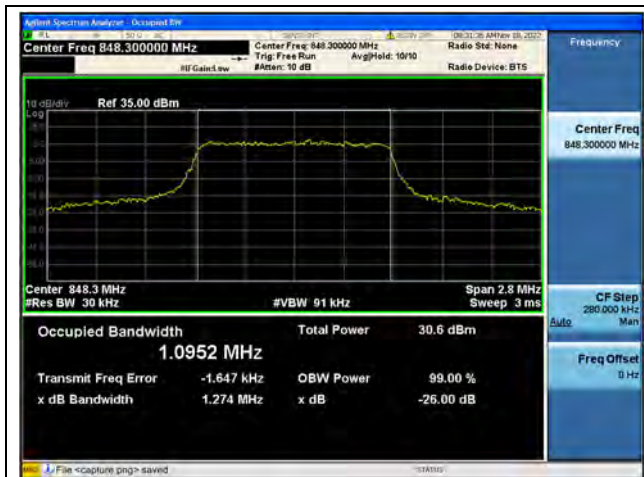
Band26Part22 / 1.4MHz / QPSK/ Mid CH



Band26Part22 / 1.4MHz / 16QAM/ Mid CH



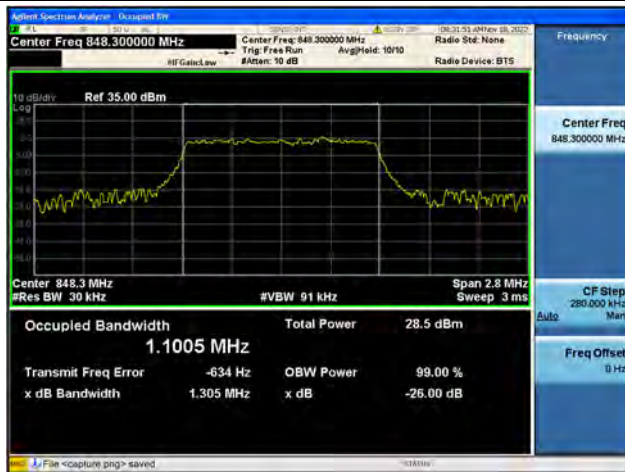
Band26Part22 / 1.4MHz / 64QAM/ Mid CH



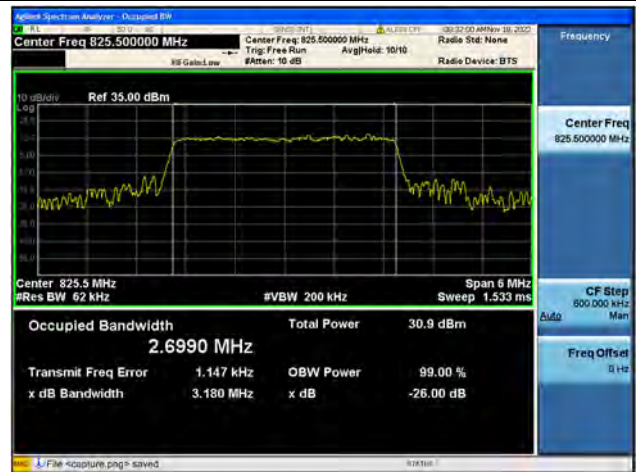
Band26Part22 / 1.4MHz / QPSK / High CH



Band26Part22 / 1.4MHz / 16QAM / High CH



Band26Part22 / 1.4MHz / 64QAM / High CH



Band26Part22 / 3MHz / QPSK / Low CH



Band26Part22 / 3MHz / 16QAM / Low CH



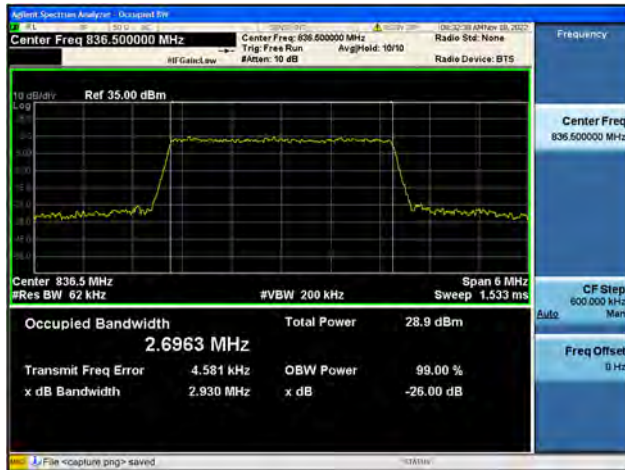
Band26Part22 / 3MHz / 64QAM / Low CH



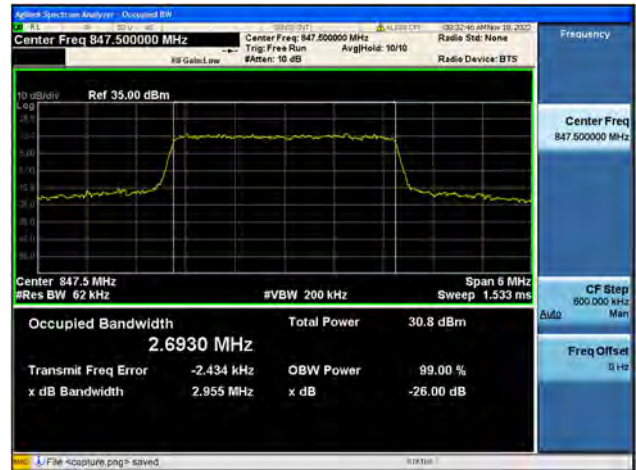
Band26Part22 / 3MHz / QPSK/ Mid CH



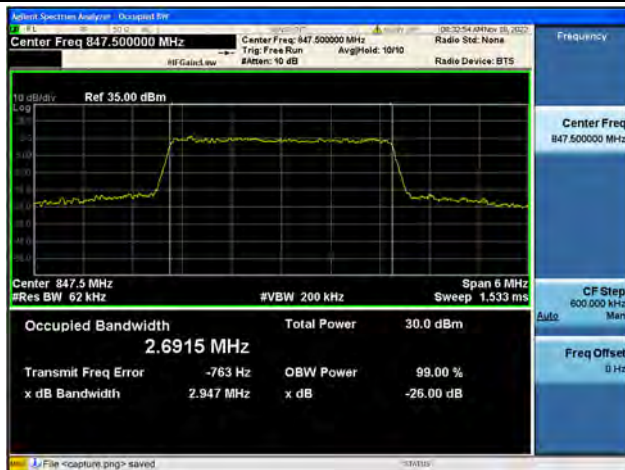
Band26Part22 / 3MHz / 16QAM/ Mid CH



Band26Part22 / 3MHz / 64QAM/ Mid CH



Band26Part22 / 3MHz / QPSK/ High CH



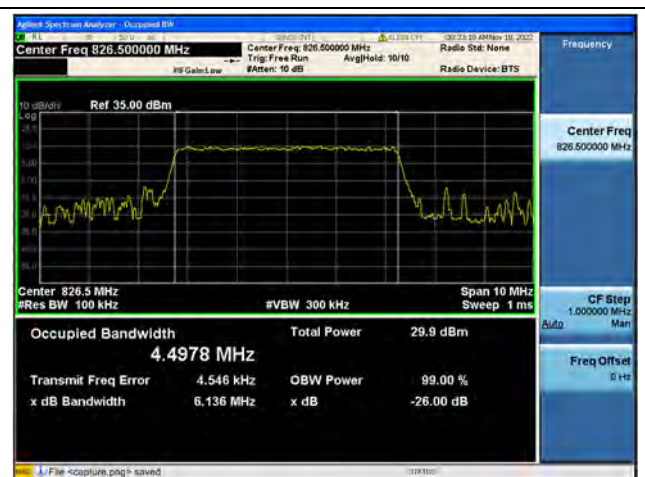
Band26Part22 / 3MHz / 16QAM/ High CH



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



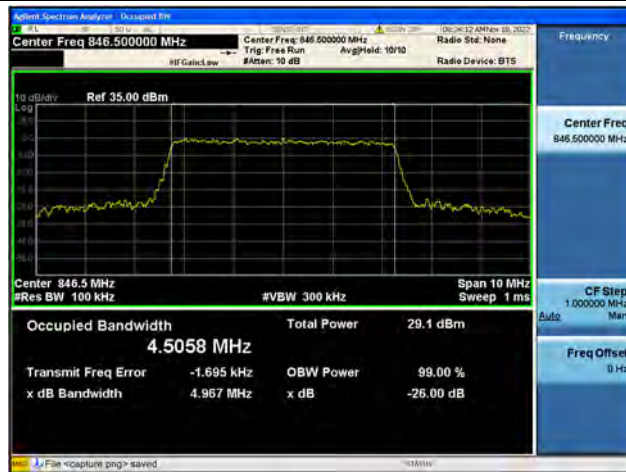
Band26Part22 / 5MHz / 64QAM/ Mid CH



Band26Part22 / 5MHz / QPSK/ High CH



Band26Part22 / 5MHz / 16QAM/ High CH



Band26Part22 / 5MHz / 64QAM/ High CH



Band26Part22 / 10MHz / QPSK/ Low CH



Band26Part22 / 10MHz / 16QAM/ Low CH



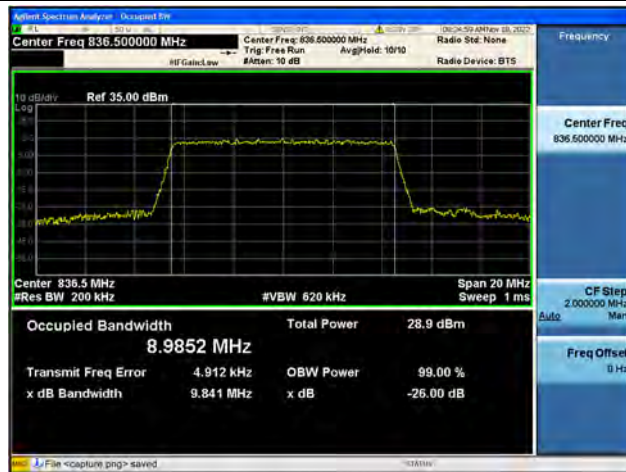
Band26Part22 / 10MHz / 64QAM/ Low CH



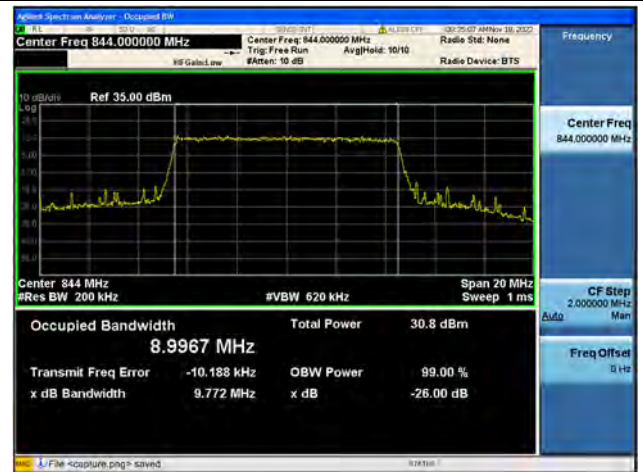
Band26Part22 / 10MHz / QPSK/ Mid CH



Band26Part22 / 10MHz / 16QAM/ Mid CH



Band26Part22 / 10MHz / 64QAM/ Mid CH



Band26Part22 / 10MHz / QPSK/ High CH



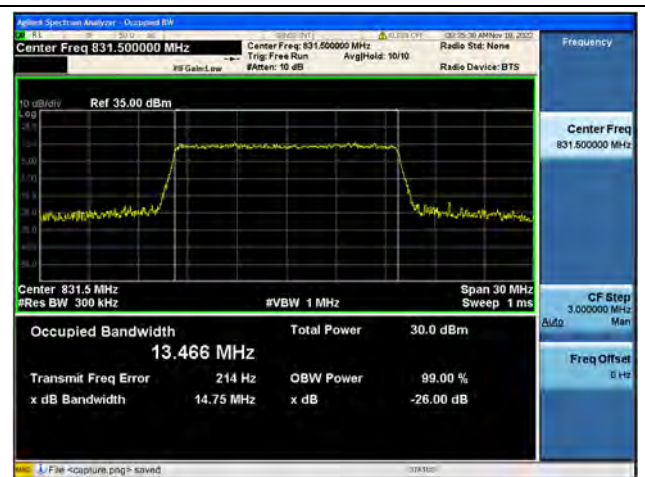
Band26Part22 / 10MHz / 16QAM/ High CH



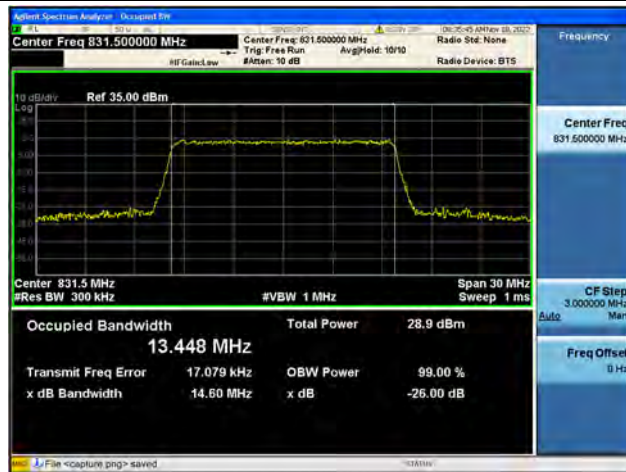
Band26Part22 / 10MHz / 64QAM/ High CH



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

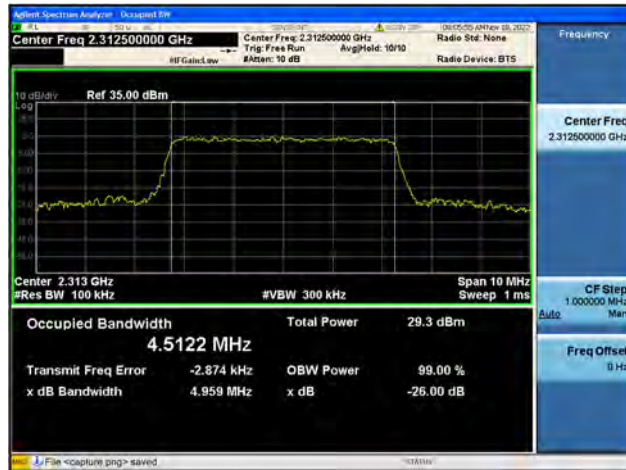




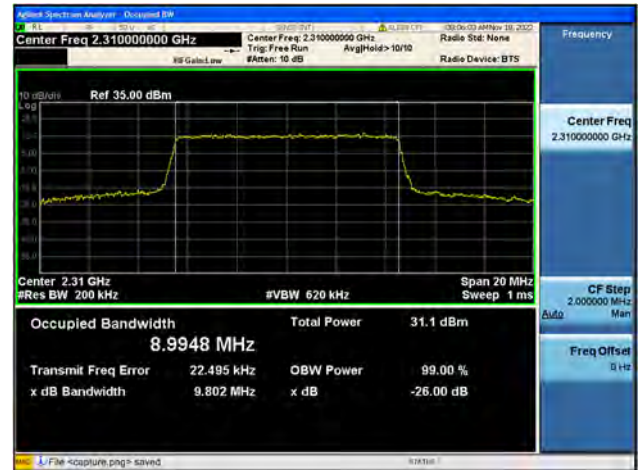
Band30 / 5MHz / QPSK/ High CH



Band30 / 5MHz / 16QAM/ High CH



Band30 / 5MHz / 64QAM/ High CH



Band30 / 10MHz / QPSK/ Low CH



Band30 / 10MHz / 16QAM/ Low CH



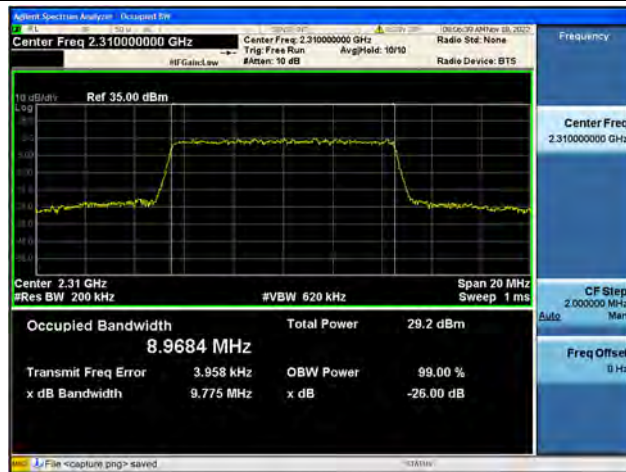
Band30 / 10MHz / 64QAM/ Low CH



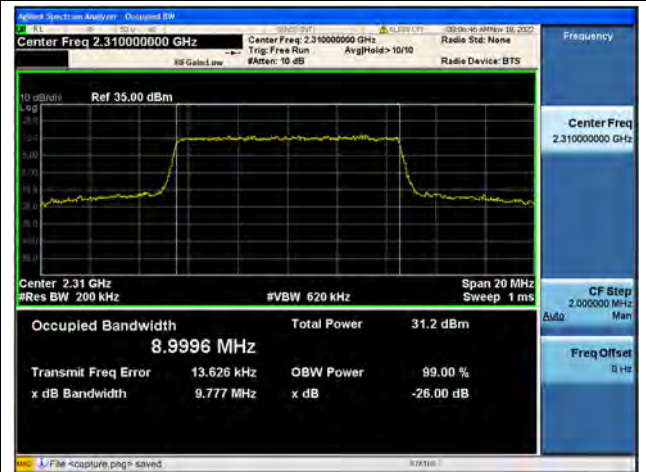
Band30 / 10MHz / QPSK/ Mid CH



Band30 / 10MHz / 16QAM/ Mid CH



Band30 / 10MHz / 64QAM/ Mid CH



Band30 / 10MHz / QPSK/ High CH



Band30 / 10MHz / 16QAM/ High CH



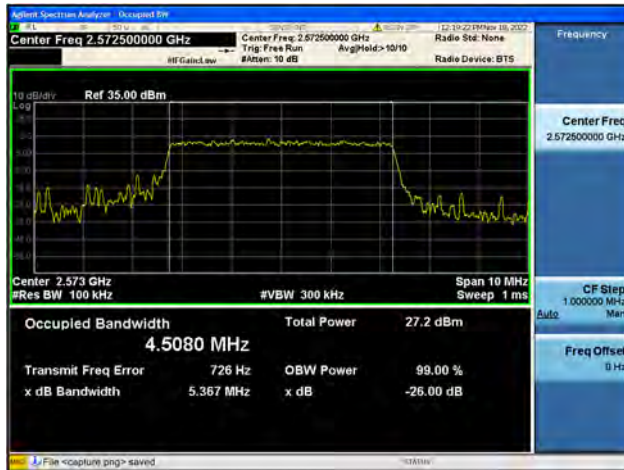
Band30 / 10MHz / 64QAM/ High CH



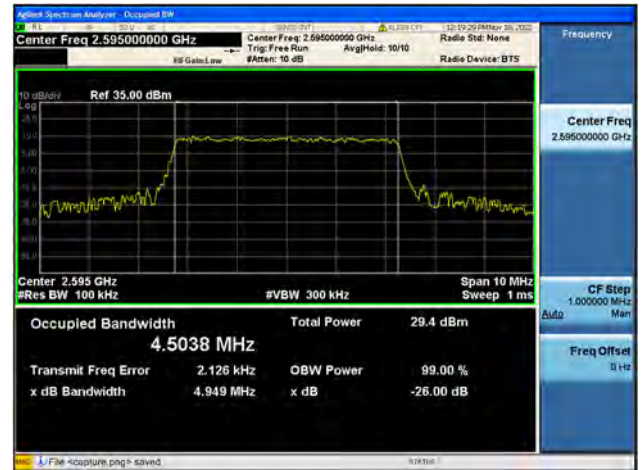
Band38 / 5MHz / QPSK/ Low CH



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



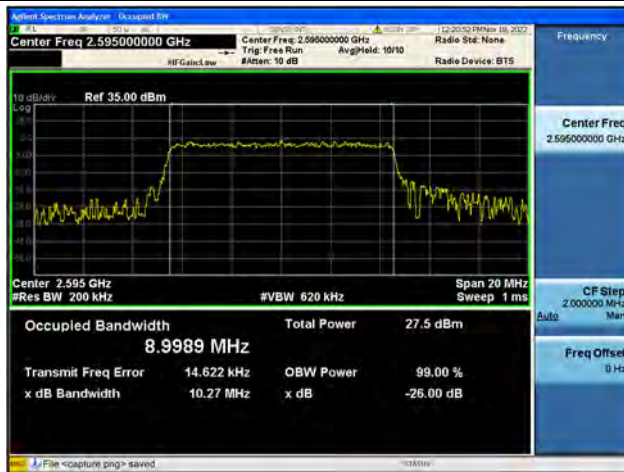
Band38 / 10MHz / 64QAM/ Low CH



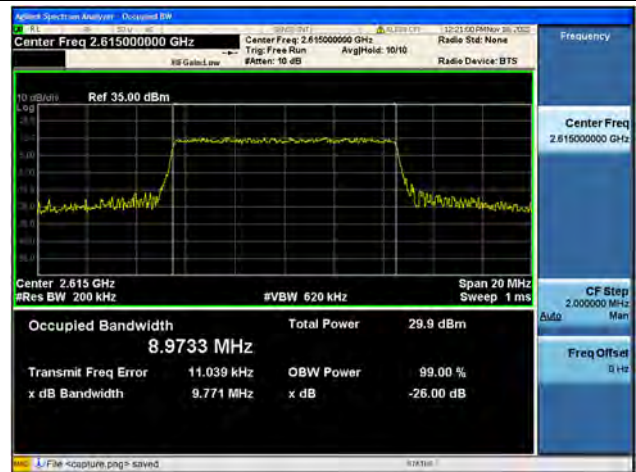
Band38 / 10MHz / QPSK/ Mid CH



Band38 / 10MHz / 16QAM/ Mid CH



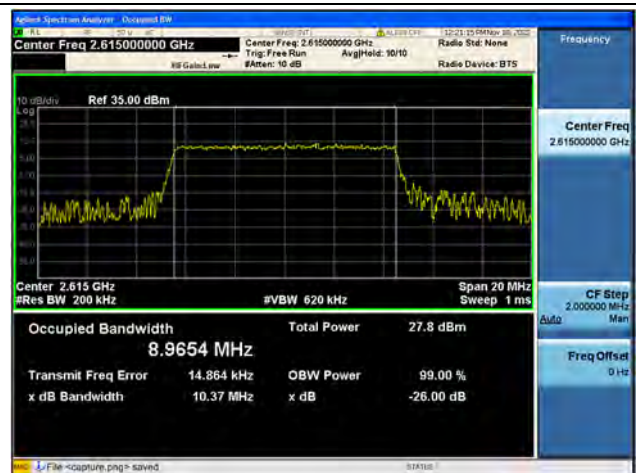
Band38 / 10MHz / 64QAM/ Mid CH



Band38 / 10MHz / QPSK/ High CH



Band38 / 10MHz / 16QAM/ High CH



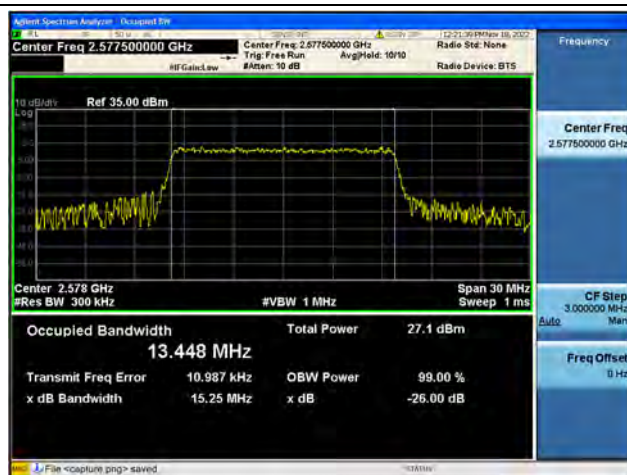
Band38 / 10MHz / 64QAM/ High CH



Band38 / 15MHz / QPSK/ Low CH



Band38 / 15MHz / 16QAM/ Low CH



Band38 / 15MHz / 64QAM/ Low CH



Band38 / 15MHz / QPSK/ Mid CH



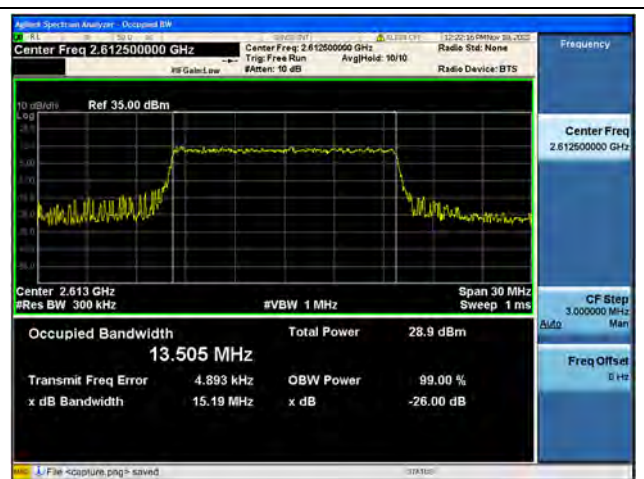
Band38 / 15MHz / 16QAM/ Mid CH



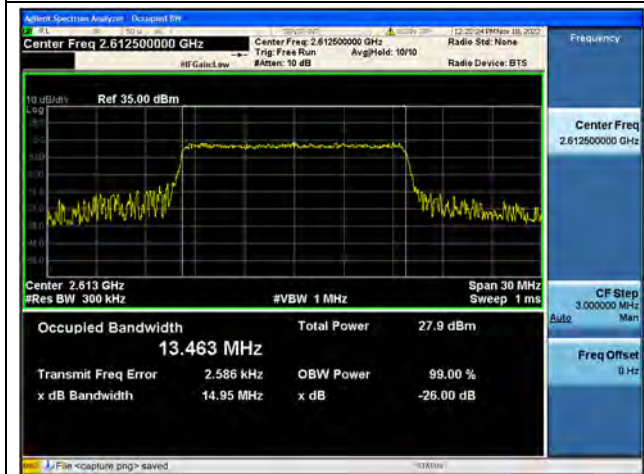
Band38 / 15MHz / 64QAM/ Mid CH



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



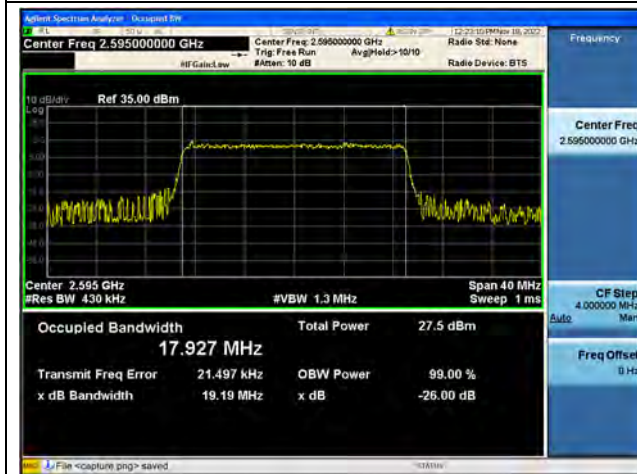
Band38 / 20MHz / 64QAM/ Low CH



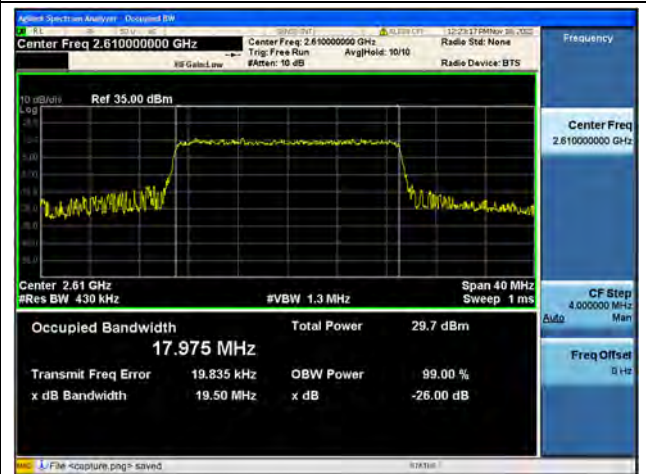
Band38 / 20MHz / QPSK/ Mid CH



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



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



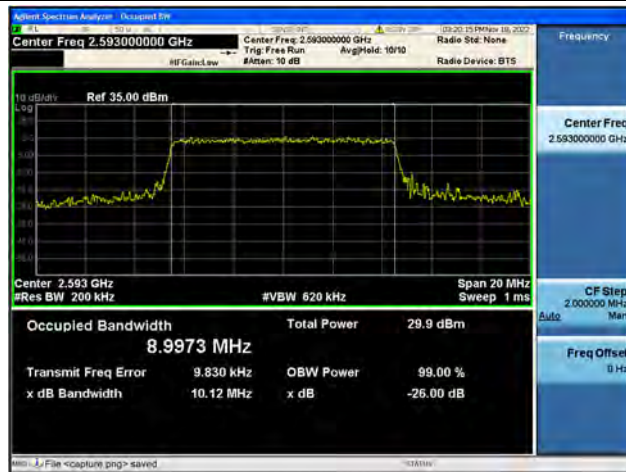
Band41 / 10MHz / 64QAM/ Low CH



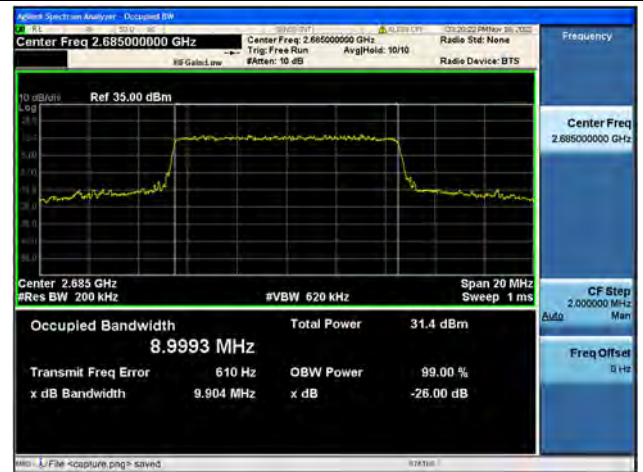
Band41 / 10MHz / QPSK/ Mid CH



Band41 / 10MHz / 16QAM/ Mid CH



Band41 / 10MHz / 64QAM/ Mid CH



Band41 / 10MHz / QPSK/ High CH



Band41 / 10MHz / 16QAM/ High CH



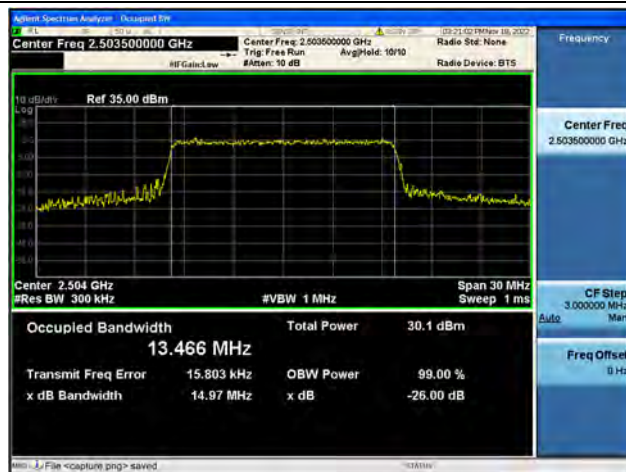
Band41 / 10MHz / 64QAM/ High CH



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



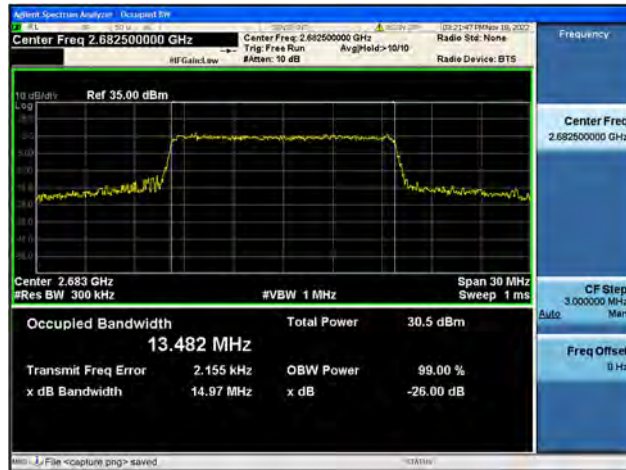
Band41 / 15MHz / 64QAM/ Mid CH



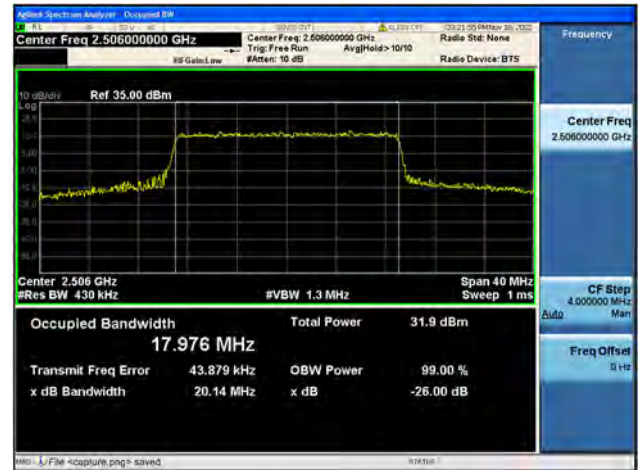
Band41 / 15MHz / QPSK/ High CH



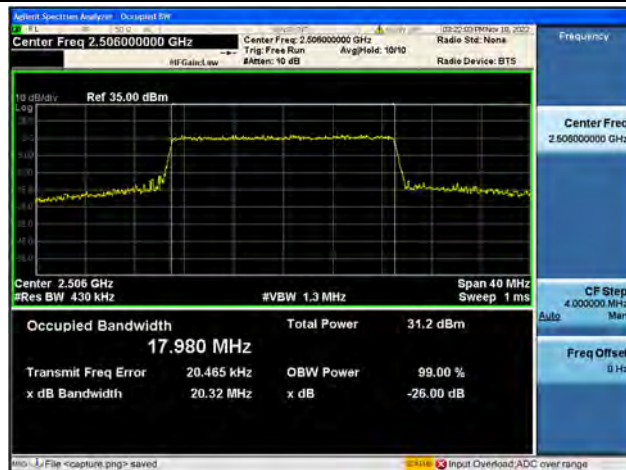
Band41 / 15MHz / 16QAM/ High CH



Band41 / 15MHz / 64QAM/ High CH



Band41 / 20MHz / QPSK/ Low CH



Band41 / 20MHz / 16QAM/ Low CH



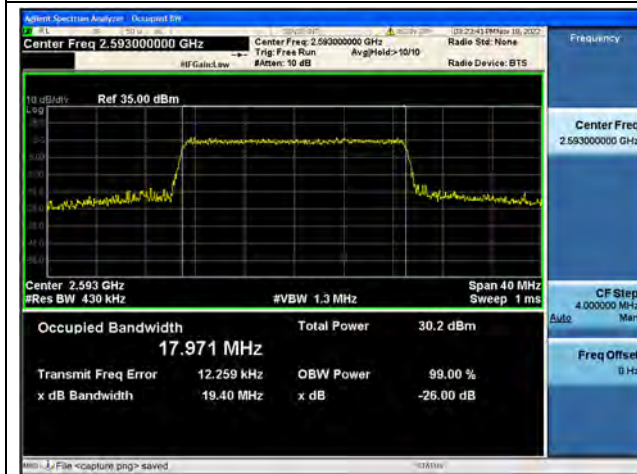
Band41 / 20MHz / 64QAM/ Low CH



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



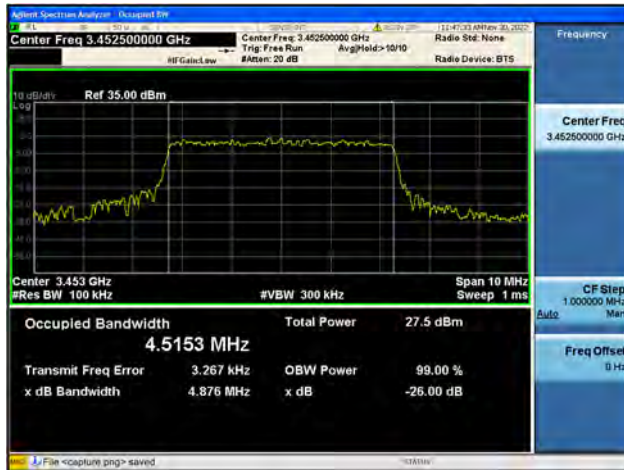
Band41 / 20MHz / 64QAM/ High CH



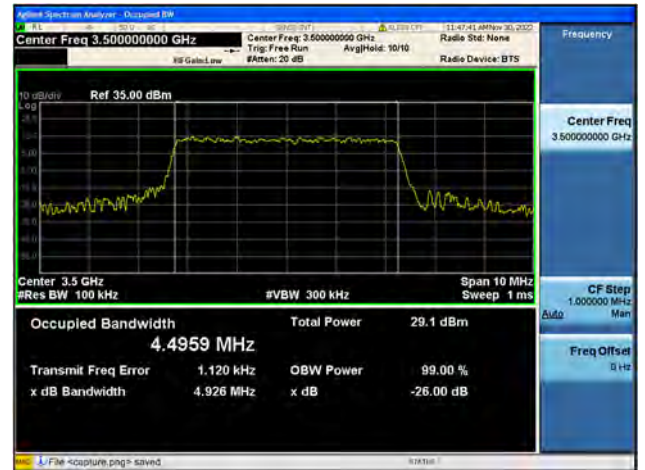
Band42 / 5MHz / QPSK/ Low CH



Band42 / 5MHz / 16QAM/ Low CH



Band42 / 5MHz / 64QAM/ Low CH



Band42 / 5MHz / QPSK/ Mid CH



Band42 / 5MHz / 16QAM/ Mid CH



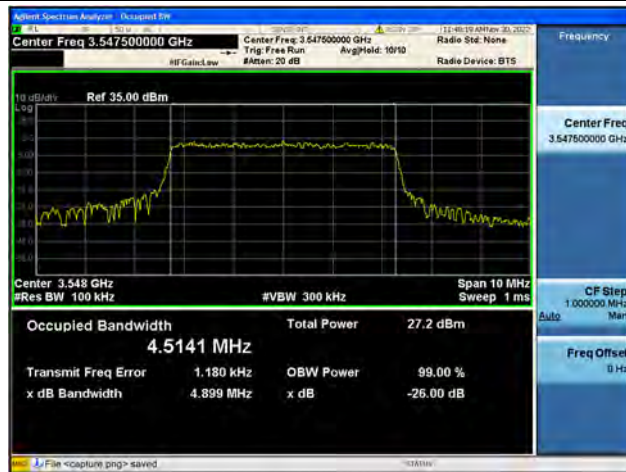
Band42 / 5MHz / 64QAM/ Mid CH



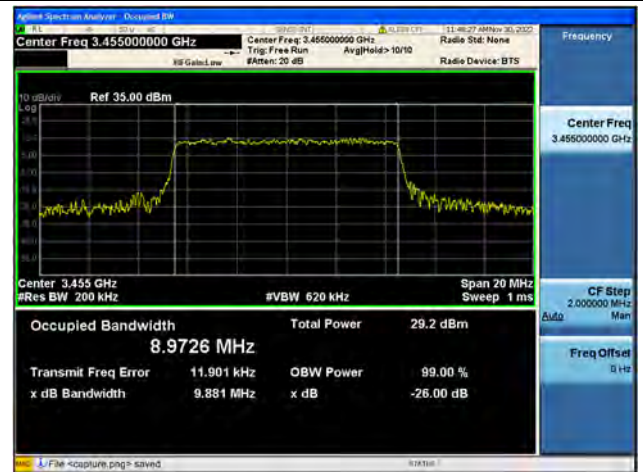
Band42 / 5MHz / QPSK/ High CH



Band42 / 5MHz / 16QAM/ High CH



Band42 / 5MHz / 64QAM/ High CH



Band42 / 10MHz / QPSK/ Low CH



Band42 / 10MHz / 16QAM/ Low CH



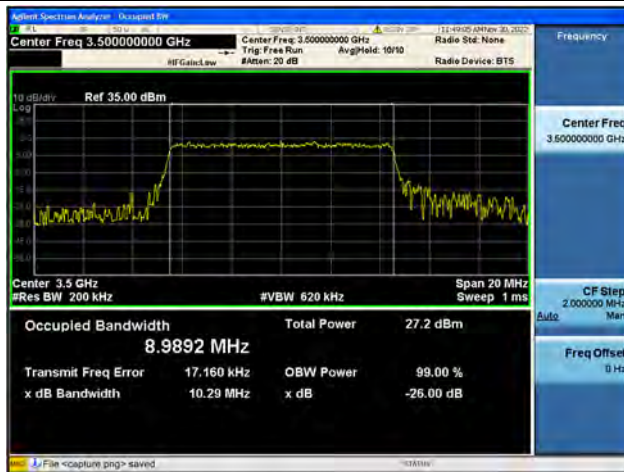
Band42 / 10MHz / 64QAM/ Low CH



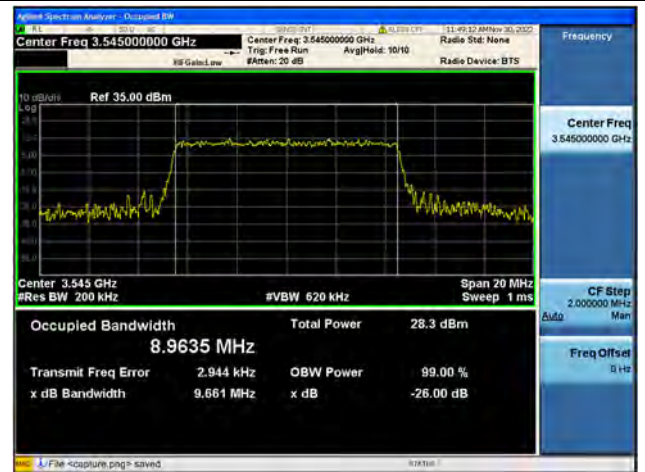
Band42 / 10MHz / QPSK/ Mid CH



Band42 / 10MHz / 16QAM/ Mid CH



Band42 / 10MHz / 64QAM/ Mid CH



Band42 / 10MHz / QPSK/ High CH



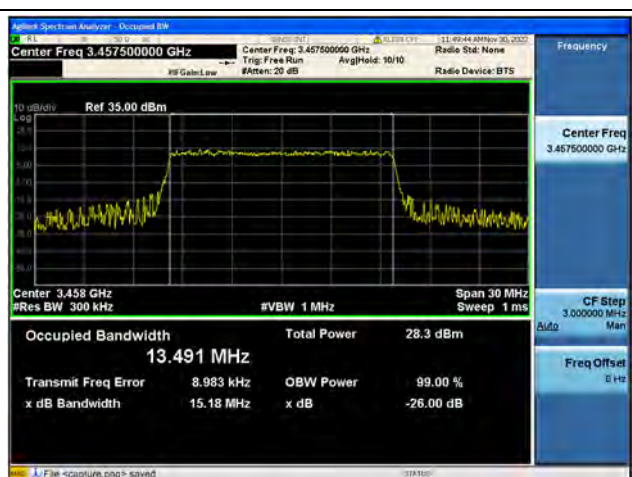
Band42 / 10MHz / 16QAM/ High CH



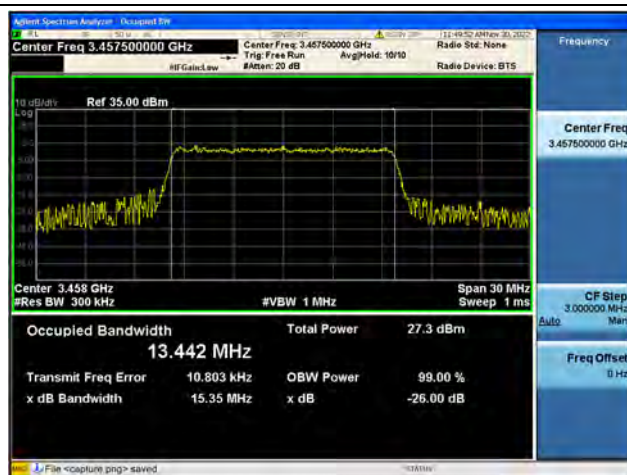
Band42 / 10MHz / 64QAM/ High CH



Band42 / 15MHz / QPSK/ Low CH



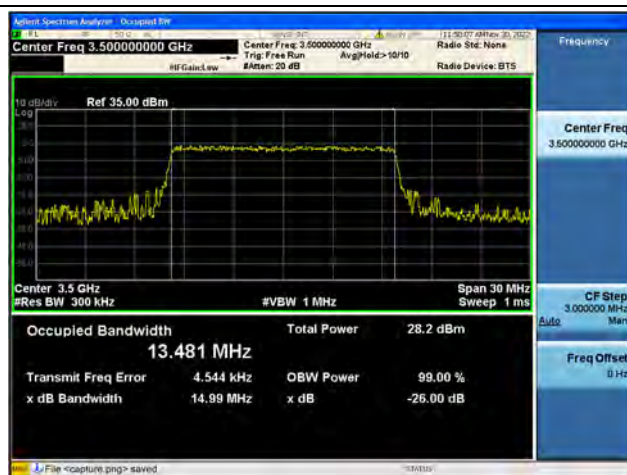
Band42 / 15MHz / 16QAM/ Low CH



Band42 / 15MHz / 64QAM/ Low CH



Band42 / 15MHz / QPSK/ Mid CH



Band42 / 15MHz / 16QAM/ Mid CH



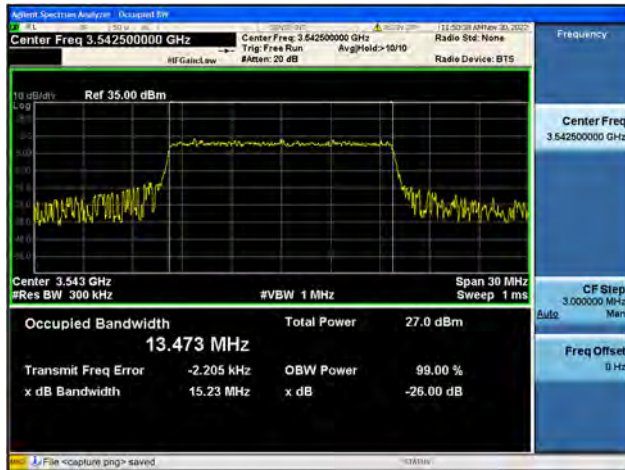
Band42 / 15MHz / 64QAM/ Mid CH



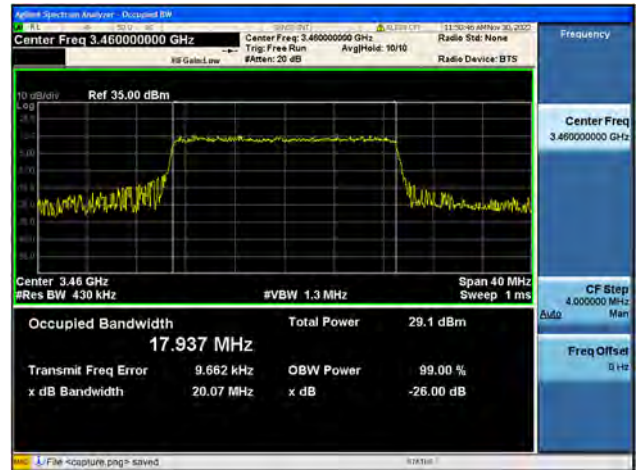
Band42 / 15MHz / QPSK/ High CH



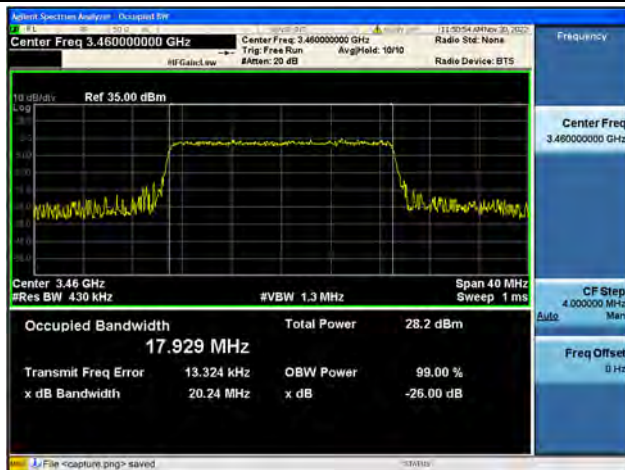
Band42 / 15MHz / 16QAM/ High CH



Band42 / 15MHz / 64QAM/ High CH



Band42 / 20MHz / QPSK/ Low CH



Band42 / 20MHz / 16QAM/ Low CH



Band42 / 20MHz / 64QAM/ Low CH



Band42 / 20MHz / QPSK/ Mid CH



Band42 / 20MHz / 16QAM/ Mid CH



Band42 / 20MHz / 64QAM/ Mid CH



Band42 / 20MHz / QPSK/ High CH



Band42 / 20MHz / 16QAM/ High CH



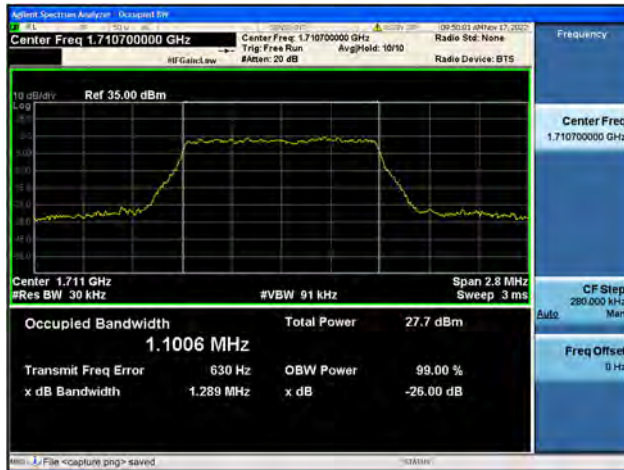
Band42 / 20MHz / 64QAM/ High CH



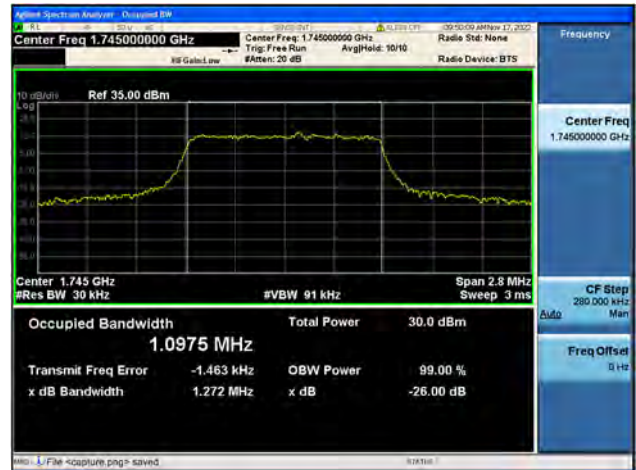
Band66 / 1.4MHz / QPSK/ Low CH



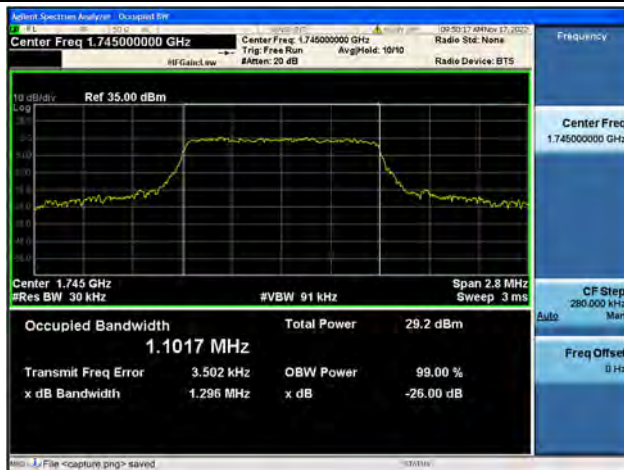
Band66 / 1.4MHz / 16QAM/ Low CH



Band66 / 1.4MHz / 64QAM/ Low CH



Band66 / 1.4MHz / QPSK/ Mid CH



Band66 / 1.4MHz / 16QAM/ Mid CH



Band66 / 1.4MHz / 64QAM/ Mid 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



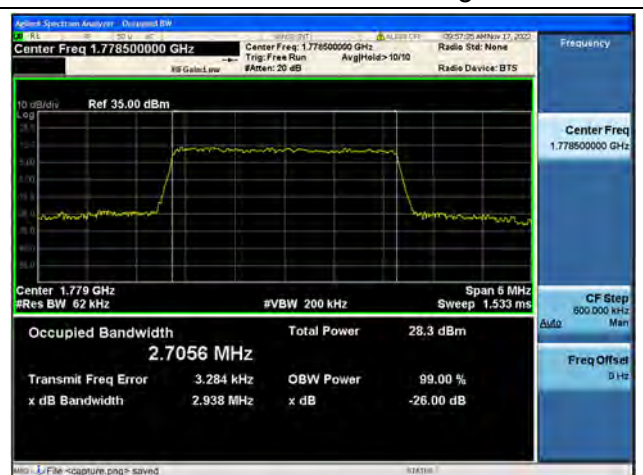
Band66 / 3MHz / 64QAM/ Mid CH



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



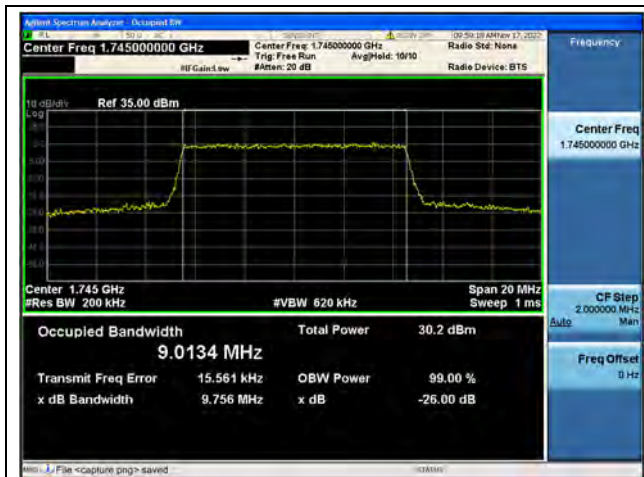
Band66 / 10MHz / QPSK/ Low CH



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



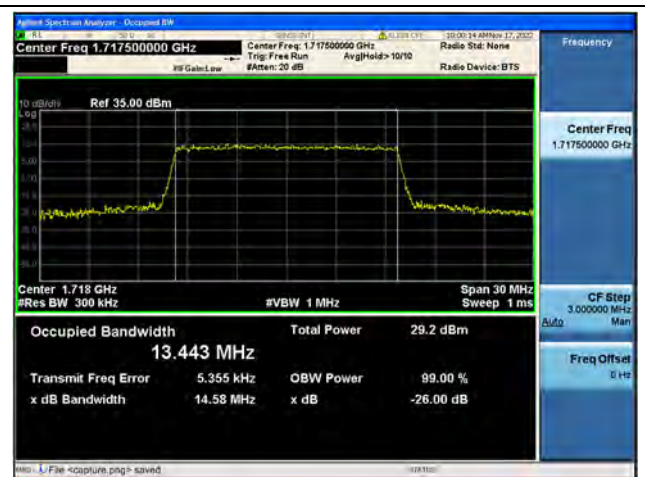
Band66 / 10MHz / 16QAM/ High CH



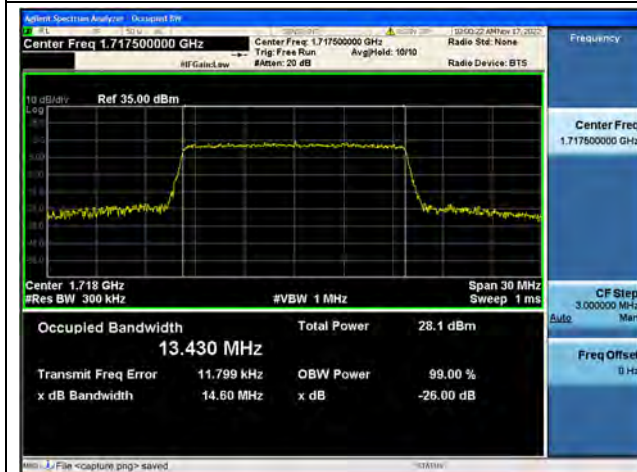
Band66 / 10MHz / 64QAM/ High CH



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



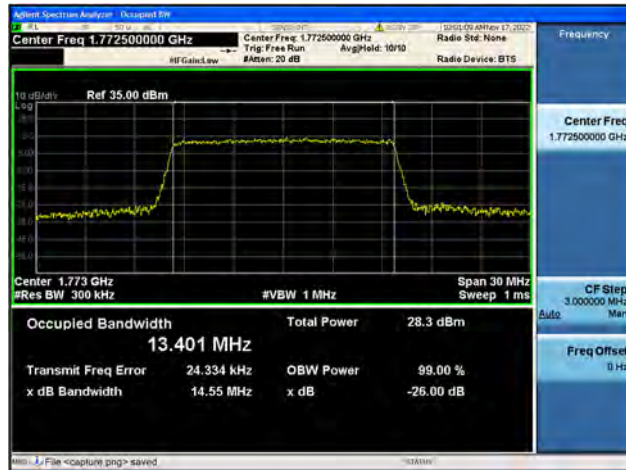
Band66 / 15MHz / 64QAM/ Mid CH



Band66 / 15MHz / QPSK/ High CH



Band66 / 15MHz / 16QAM/ High CH



Band66 / 15MHz / 64QAM/ High CH



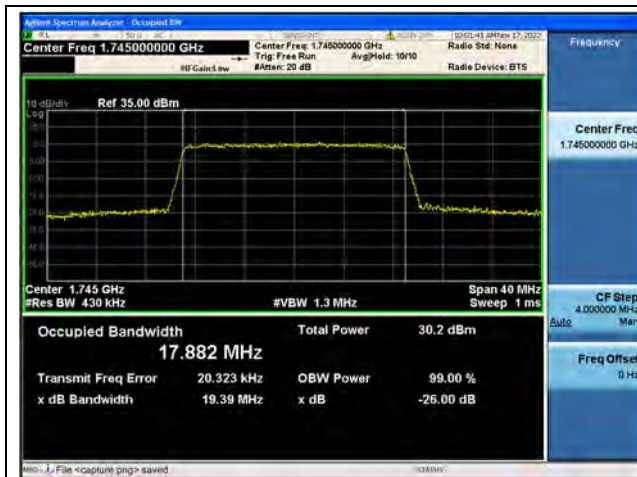
Band66 / 20MHz / QPSK/ Low CH



Band66 / 20MHz / 16QAM/ Low CH



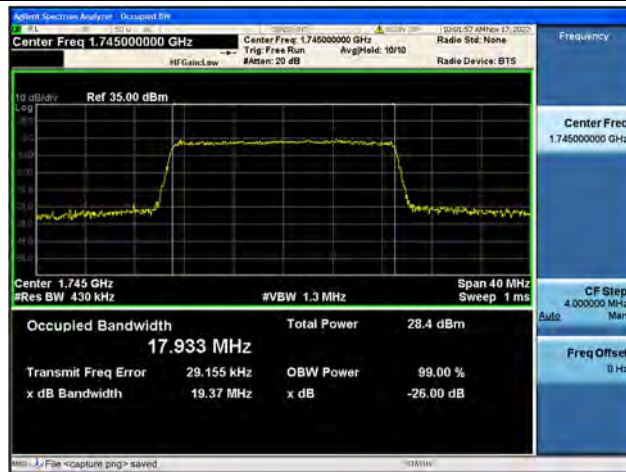
Band66 / 20MHz / 64QAM/ Low CH



Band66 / 20MHz / QPSK/ Mid CH



Band66 / 20MHz / 16QAM/ Mid CH



Band66 / 20MHz / 64QAM/ Mid CH



Band66 / 20MHz / QPSK/ High CH



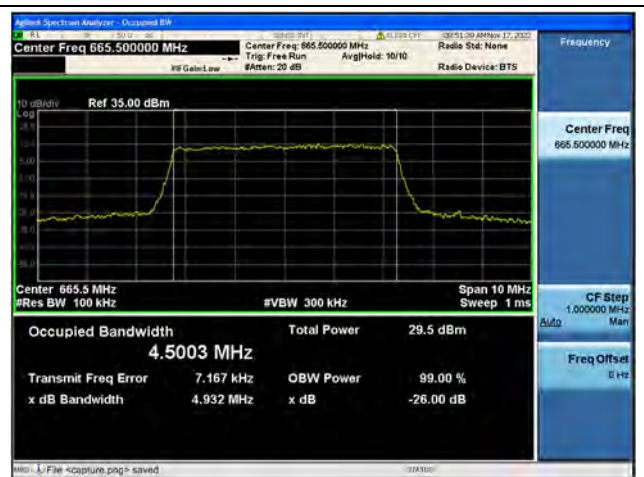
Band66 / 20MHz / 16QAM/ High CH



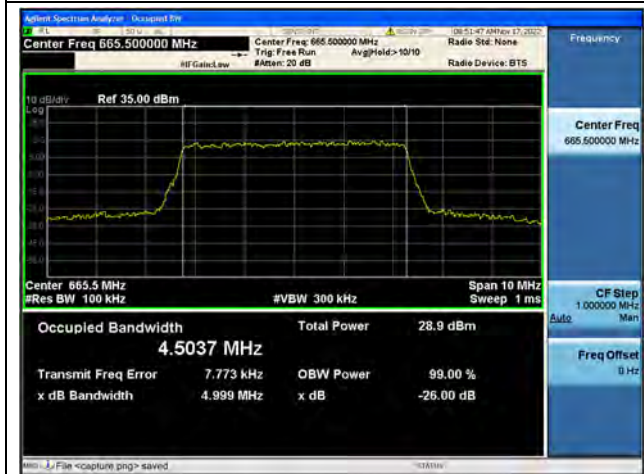
Band66 / 20MHz / 64QAM/ High CH



Band71 / 5MHz / QPSK/ Low CH



Band71 / 5MHz / 16QAM/ Low CH



Band71 / 5MHz / 64QAM/ Low CH



Band71 / 5MHz / QPSK/ Mid CH



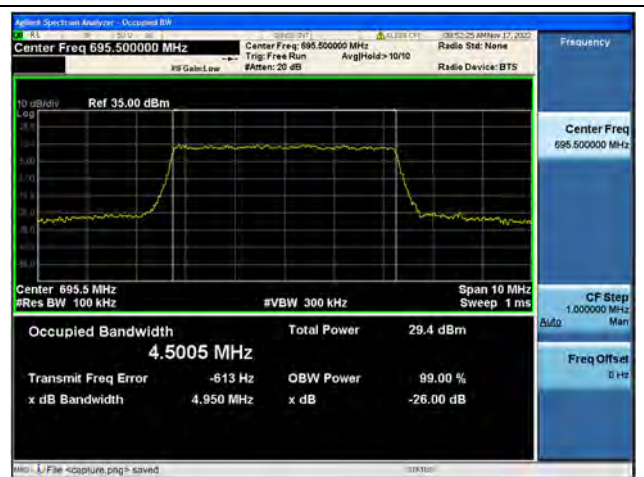
Band71 / 5MHz / 16QAM/ Mid CH



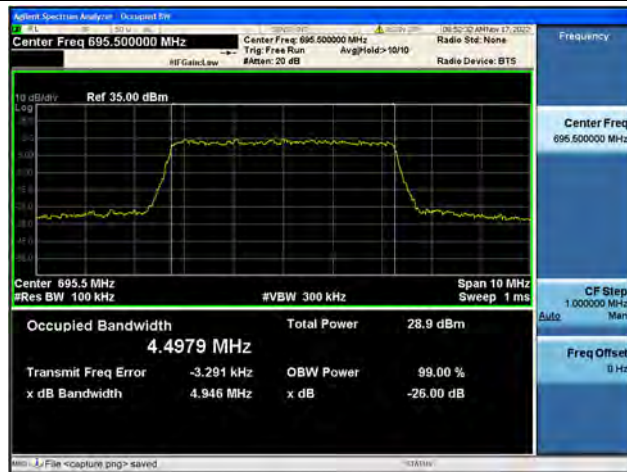
Band71 / 5MHz / 64QAM/ Mid CH



Band71 / 5MHz / QPSK/ High CH



Band71 / 5MHz / 16QAM/ High CH



Band71 / 5MHz / 64QAM/ High CH



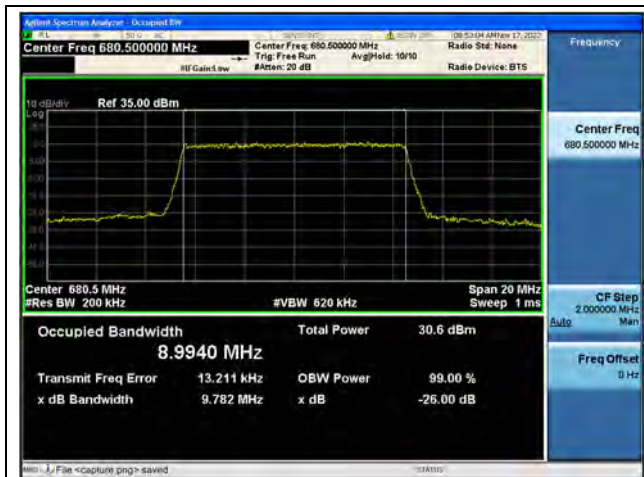
Band71 / 10MHz / QPSK/ Low CH



Band71 / 10MHz / 16QAM/ Low CH



Band71 / 10MHz / 64QAM/ Low CH



Band71 / 10MHz / QPSK/ Mid CH



Band71 / 10MHz / 16QAM/ Mid CH



Band71 / 10MHz / 64QAM/ Mid CH



Band71 / 10MHz / QPSK/ High CH



Band71 / 10MHz / 16QAM/ High CH



Band71 / 10MHz / 64QAM/ High CH



Band71 / 15MHz / QPSK/ Low CH



Band71 / 15MHz / 16QAM/ Low CH



Band71 / 15MHz / 64QAM/ Low CH



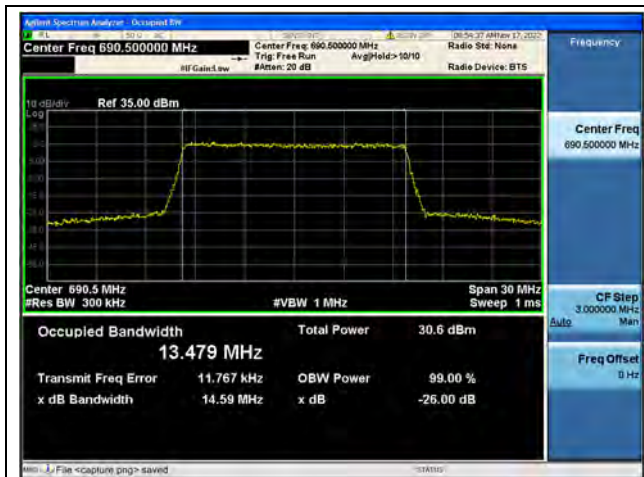
Band71 / 15MHz / QPSK/ Mid CH



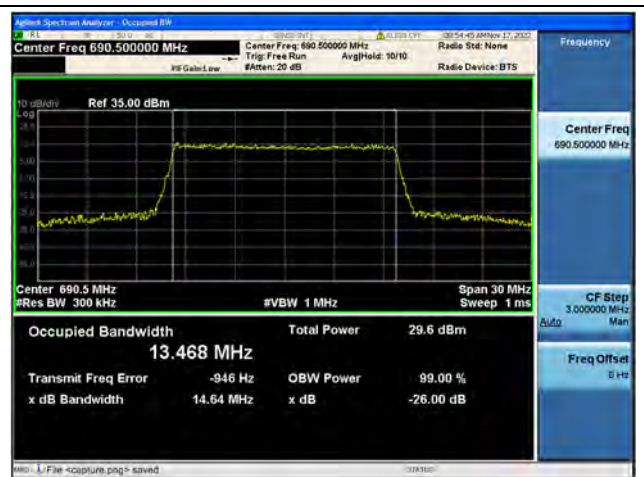
Band71 / 15MHz / 16QAM/ Mid CH



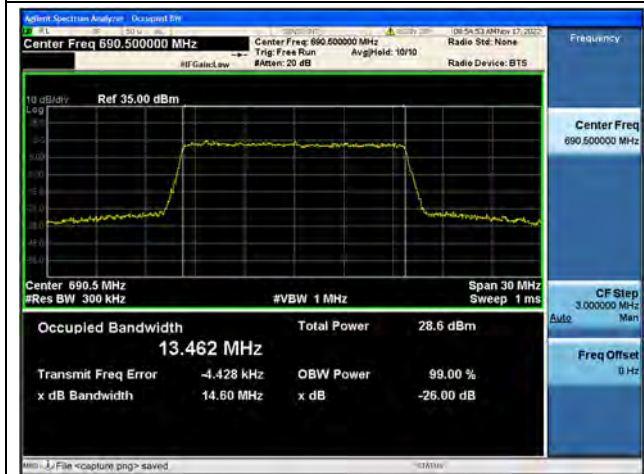
Band71 / 15MHz / 64QAM/ Mid CH



Band71 / 15MHz / QPSK/ High CH



Band71 / 15MHz / 16QAM/ High CH



Band71 / 15MHz / 64QAM/ High CH



Band71 / 20MHz / QPSK/ Low CH



Band71 / 20MHz / 16QAM/ Low CH



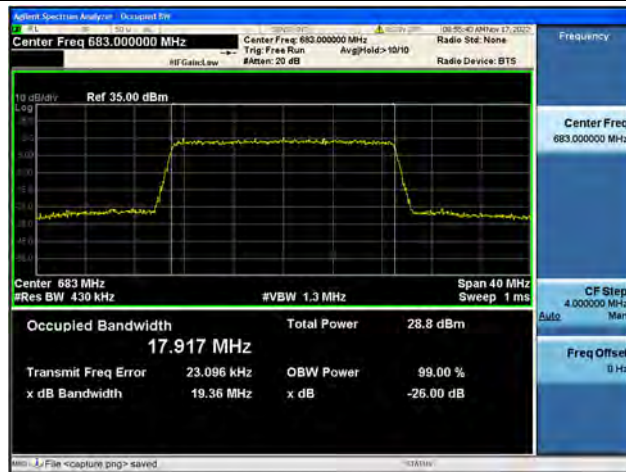
Band71 / 20MHz / 64QAM/ Low CH



Band71 / 20MHz / QPSK/ Mid CH



Band71 / 20MHz / 16QAM/ Mid CH



Band71 / 20MHz / 64QAM/ Mid CH



Band71 / 20MHz / QPSK/ High CH



Band71 / 20MHz / 16QAM/ High CH



Band71 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

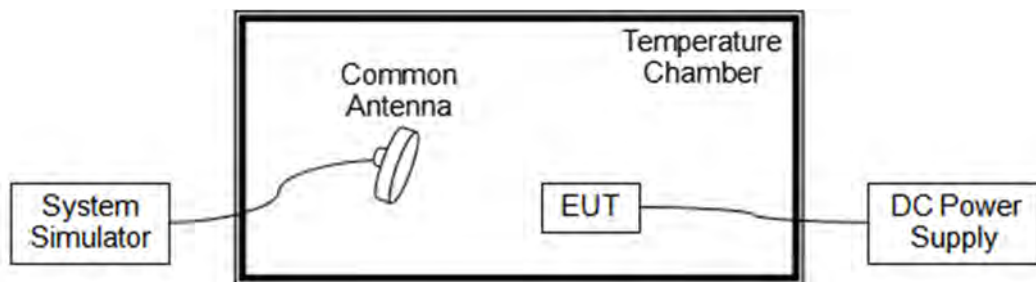
2.3.1. Requirement

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 45°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 3.85V, 4.40V and 3.65V, 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	3.85	+20(Ref)	-24	-0.013	PASS
Normal		0	18	0.010	
Normal		+10	30	0.016	
Normal		+20	34	0.018	
Normal		+30	-36	-0.019	
Normal		+40	45	0.024	
Normal		+45	26	0.014	
High	4.40	+20	42	0.022	
BATT.ENDPOINT	3.65	+20	-52	-0.028	

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	3.85	+20(Ref)	-55	-0.032	PASS
Normal		0	39	0.023	
Normal		+10	13	0.008	
Normal		+20	16	0.009	
Normal		+30	42	0.024	
Normal		+40	-27	-0.016	
Normal		+45	36	0.021	
High	4.40	+20	19	0.011	
BATT.ENDPOINT	3.65	+20	-59	-0.034	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-50	-0.060	PASS
Normal		0	34	0.041	
Normal		+10	49	0.059	
Normal		+20	56	0.067	
Normal		+30	-20	-0.024	
Normal		+40	46	0.055	
Normal		+45	14	0.017	
High	4.40	+20	-21	-0.025	
BATT.ENDPOINT	3.65	+20	36	0.043	

LTE Band 7, QPSK, Channel 21100, Frequency 2535.0MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-52	-0.021	PASS
Normal		0	-37	-0.015	
Normal		+10	44	0.017	
Normal		+20	-53	-0.021	
Normal		+30	-51	-0.020	
Normal		+40	-52	-0.021	
Normal		+45	36	0.014	
High	4.40	+20	22	0.009	
BATT.ENDPOINT	3.65	+20	-47	-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	3.85	+20(Ref)	50	0.071	PASS
Normal		0	57	0.081	
Normal		+10	22	0.031	
Normal		+20	-15	-0.021	
Normal		+30	57	0.081	
Normal		+40	21	0.030	
Normal		+45	18	0.025	
High	4.40	+20	-57	-0.081	
BATT.ENDPOINT	3.65	+20	32	0.045	

LTE Band 13, QPSK, Channel 23230, Frequency 782MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-32	-0.041	PASS
Normal		0	37	0.047	
Normal		+10	17	0.022	
Normal		+20	47	0.060	
Normal		+30	20	0.026	
Normal		+40	14	0.018	
Normal		+45	39	0.050	
High	4.40	+20	34	0.043	
BATT.ENDPOINT	3.65	+20	29	0.037	



LTE Band 17, 64QAM, Channel 23790, Frequency 710.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	57	0.080	PASS
Normal		0	43	0.061	
Normal		+10	-42	-0.059	
Normal		+20	-18	-0.025	
Normal		+30	36	0.051	
Normal		+40	-25	-0.035	
Normal		+45	-36	-0.051	
High	4.40	+20	28	0.039	
BATT.ENDPOINT	3.65	+20	-55	-0.077	

LTE Band 25, QPSK, Channel 26365, Frequency 1882.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	46	0.024	PASS
Normal		0	-45	-0.024	
Normal		+10	33	0.018	
Normal		+20	-29	-0.015	
Normal		+30	14	0.007	
Normal		+40	-26	-0.014	
Normal		+45	-17	-0.009	
High	4.40	+20	24	0.013	
BATT.ENDPOINT	3.65	+20	-57	-0.030	



LTE Band 26, QPSK, Channel 26915, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-35	-0.042	PASS
Normal		0	40	0.048	
Normal		+10	53	0.063	
Normal		+20	57	0.068	
Normal		+30	-33	-0.039	
Normal		+40	30	0.036	
Normal		+45	52	0.062	
High	4.40	+20	-47	-0.056	
BATT.ENDPOINT	3.65	+20	26	0.031	

LTE Band 30, QPSK, Channel 27710, Frequency 2310.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	45	0.019	PASS
Normal		0	-53	-0.023	
Normal		+10	38	0.016	
Normal		+20	-32	-0.014	
Normal		+30	-56	-0.024	
Normal		+40	51	0.022	
Normal		+45	-37	-0.016	
High	4.40	+20	51	0.022	
BATT.ENDPOINT	3.65	+20	-56	-0.024	



LTE Band 38, 64QAM, Channel 38000, Frequency 2595.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-56	-0.022	PASS
Normal		0	14	0.005	
Normal		+10	-51	-0.020	
Normal		+20	34	0.013	
Normal		+30	-52	-0.020	
Normal		+40	20	0.008	
Normal		+45	13	0.005	
High	4.40	+20	-21	-0.008	
BATT.ENDPOINT	3.65	+20	-41	-0.016	

LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-22	-0.008	PASS
Normal		0	31	0.012	
Normal		+10	-29	-0.011	
Normal		+20	48	0.019	
Normal		+30	-14	-0.005	
Normal		+40	34	0.013	
Normal		+45	-43	-0.017	
High	4.40	+20	57	0.022	
BATT.ENDPOINT	3.65	+20	48	0.019	



LTE Band 42, 64QAM, Channel 42590, Frequency 3500.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	36	0.010	PASS
Normal		0	23	0.007	
Normal		+10	-37	-0.011	
Normal		+20	29	0.008	
Normal		+30	-35	-0.010	
Normal		+40	30	0.009	
Normal		+45	45	0.013	
High	4.40	+20	-24	-0.007	
BATT.ENDPOINT	3.65	+20	38	0.011	

LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	-53	-0.030	PASS
Normal		0	48	0.028	
Normal		+10	-52	-0.030	
Normal		+20	-41	-0.023	
Normal		+30	13	0.007	
Normal		+40	-23	-0.013	
Normal		+45	-49	-0.028	
High	4.40	+20	50	0.029	
BATT.ENDPOINT	3.65	+20	-45	-0.026	



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LTE Band 71, QPSK, Channel 133322, Frequency 683.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	20	0.029	PASS
Normal		0	17	0.025	
Normal		+10	49	0.072	
Normal		+20	-47	-0.069	
Normal		+30	45	0.066	
Normal		+40	-56	-0.082	
Normal		+45	-56	-0.082	
High	4.40	+20	32	0.047	
BATT.ENDPOINT	3.65	+20	14	0.020	

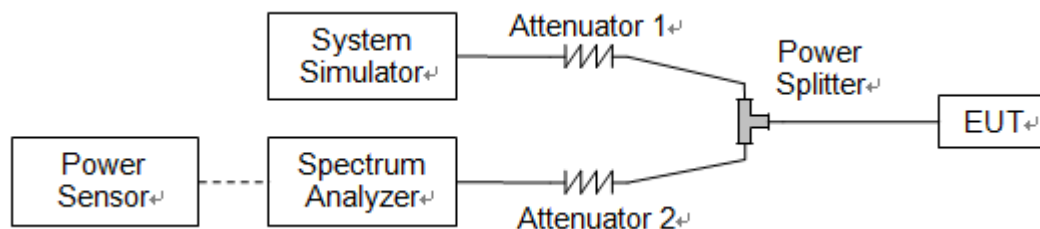
2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

According to FCC section 27.50(k)(4) for Band 42, in measuring transmissions in this band using an average power technique, 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	5.46	<=13	PASS
	Low	16QAM	6.08	<=13	PASS
	Low	64QAM	6.53	<=13	PASS
	Mid	QPSK	5.52	<=13	PASS
	Mid	16QAM	6.18	<=13	PASS
	Mid	64QAM	6.51	<=13	PASS
	High	QPSK	5.30	<=13	PASS
	High	16QAM	6.01	<=13	PASS
	High	64QAM	6.41	<=13	PASS
3	Low	QPSK	5.49	<=13	PASS
	Low	16QAM	6.24	<=13	PASS
	Low	64QAM	6.54	<=13	PASS
	Mid	QPSK	5.53	<=13	PASS
	Mid	16QAM	6.33	<=13	PASS
	Mid	64QAM	6.52	<=13	PASS
	High	QPSK	5.35	<=13	PASS
	High	16QAM	6.18	<=13	PASS
	High	64QAM	6.46	<=13	PASS
5	Low	QPSK	5.62	<=13	PASS
	Low	16QAM	6.21	<=13	PASS
	Low	64QAM	6.56	<=13	PASS
	Mid	QPSK	5.56	<=13	PASS
	Mid	16QAM	6.23	<=13	PASS
	Mid	64QAM	6.50	<=13	PASS
	High	QPSK	5.50	<=13	PASS
	High	16QAM	6.12	<=13	PASS
	High	64QAM	6.42	<=13	PASS
10	Low	QPSK	5.69	<=13	PASS
	Low	16QAM	6.30	<=13	PASS
	Low	64QAM	6.55	<=13	PASS
	Mid	QPSK	5.64	<=13	PASS
	Mid	16QAM	6.32	<=13	PASS
	Mid	64QAM	6.49	<=13	PASS
	High	QPSK	5.54	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.43	<=13	PASS



15	Low	QPSK	5.55	≤ 13	PASS
	Low	16QAM	6.28	≤ 13	PASS
	Low	64QAM	6.59	≤ 13	PASS
	Mid	QPSK	5.46	≤ 13	PASS
	Mid	16QAM	6.16	≤ 13	PASS
	Mid	64QAM	6.51	≤ 13	PASS
	High	QPSK	5.40	≤ 13	PASS
	High	16QAM	6.12	≤ 13	PASS
	High	64QAM	6.45	≤ 13	PASS
20	Low	QPSK	5.59	≤ 13	PASS
	Low	16QAM	6.32	≤ 13	PASS
	Low	64QAM	6.57	≤ 13	PASS
	Mid	QPSK	5.43	≤ 13	PASS
	Mid	16QAM	6.17	≤ 13	PASS
	Mid	64QAM	6.47	≤ 13	PASS
	High	QPSK	5.47	≤ 13	PASS
	High	16QAM	6.23	≤ 13	PASS
	High	64QAM	6.55	≤ 13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.94	<=13	PASS
	Low	16QAM	5.85	<=13	PASS
	Low	64QAM	6.38	<=13	PASS
	Mid	QPSK	5.11	<=13	PASS
	Mid	16QAM	5.78	<=13	PASS
	Mid	64QAM	6.29	<=13	PASS
	High	QPSK	4.79	<=13	PASS
	High	16QAM	5.49	<=13	PASS
	High	64QAM	6.22	<=13	PASS
3	Low	QPSK	5.05	<=13	PASS
	Low	16QAM	5.95	<=13	PASS
	Low	64QAM	6.34	<=13	PASS
	Mid	QPSK	5.20	<=13	PASS
	Mid	16QAM	5.95	<=13	PASS
	Mid	64QAM	6.33	<=13	PASS
	High	QPSK	4.84	<=13	PASS
	High	16QAM	5.65	<=13	PASS
	High	64QAM	6.20	<=13	PASS
5	Low	QPSK	5.23	<=13	PASS
	Low	16QAM	5.92	<=13	PASS
	Low	64QAM	6.32	<=13	PASS
	Mid	QPSK	5.40	<=13	PASS
	Mid	16QAM	6.01	<=13	PASS
	Mid	64QAM	6.41	<=13	PASS
	High	QPSK	5.13	<=13	PASS
	High	16QAM	5.80	<=13	PASS
	High	64QAM	6.39	<=13	PASS
10	Low	QPSK	5.15	<=13	PASS
	Low	16QAM	5.89	<=13	PASS
	Low	64QAM	6.28	<=13	PASS
	Mid	QPSK	5.42	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	6.39	<=13	PASS
	High	QPSK	5.16	<=13	PASS
	High	16QAM	5.76	<=13	PASS
	High	64QAM	6.27	<=13	PASS



15	Low	QPSK	5.05	≤ 13	PASS
	Low	16QAM	5.71	≤ 13	PASS
	Low	64QAM	6.21	≤ 13	PASS
	Mid	QPSK	5.21	≤ 13	PASS
	Mid	16QAM	5.91	≤ 13	PASS
	Mid	64QAM	6.41	≤ 13	PASS
	High	QPSK	4.93	≤ 13	PASS
	High	16QAM	5.70	≤ 13	PASS
	High	64QAM	6.17	≤ 13	PASS
20	Low	QPSK	5.11	≤ 13	PASS
	Low	16QAM	5.91	≤ 13	PASS
	Low	64QAM	6.29	≤ 13	PASS
	Mid	QPSK	5.26	≤ 13	PASS
	Mid	16QAM	6.02	≤ 13	PASS
	Mid	64QAM	6.40	≤ 13	PASS
	High	QPSK	5.10	≤ 13	PASS
	High	16QAM	5.88	≤ 13	PASS
	High	64QAM	6.29	≤ 13	PASS



LTE Band 25					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.26	<=13	PASS
	Low	16QAM	5.96	<=13	PASS
	Low	64QAM	6.42	<=13	PASS
	Mid	QPSK	5.35	<=13	PASS
	Mid	16QAM	6.06	<=13	PASS
	Mid	64QAM	6.45	<=13	PASS
	High	QPSK	4.58	<=13	PASS
	High	16QAM	5.34	<=13	PASS
	High	64QAM	5.99	<=13	PASS
3	Low	QPSK	5.34	<=13	PASS
	Low	16QAM	6.07	<=13	PASS
	Low	64QAM	6.43	<=13	PASS
	Mid	QPSK	5.49	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.44	<=13	PASS
	High	QPSK	4.92	<=13	PASS
	High	16QAM	5.69	<=13	PASS
	High	64QAM	6.14	<=13	PASS
5	Low	QPSK	5.48	<=13	PASS
	Low	16QAM	6.10	<=13	PASS
	Low	64QAM	6.45	<=13	PASS
	Mid	QPSK	5.53	<=13	PASS
	Mid	16QAM	6.14	<=13	PASS
	Mid	64QAM	6.46	<=13	PASS
	High	QPSK	5.23	<=13	PASS
	High	16QAM	5.85	<=13	PASS
	High	64QAM	6.29	<=13	PASS
10	Low	QPSK	5.53	<=13	PASS
	Low	16QAM	6.18	<=13	PASS
	Low	64QAM	6.48	<=13	PASS
	Mid	QPSK	5.53	<=13	PASS
	Mid	16QAM	6.16	<=13	PASS
	Mid	64QAM	6.46	<=13	PASS
	High	QPSK	5.36	<=13	PASS
	High	16QAM	6.02	<=13	PASS
	High	64QAM	6.43	<=13	PASS



15	Low	QPSK	5.51	≤ 13	PASS
	Low	16QAM	6.13	≤ 13	PASS
	Low	64QAM	6.52	≤ 13	PASS
	Mid	QPSK	5.41	≤ 13	PASS
	Mid	16QAM	6.06	≤ 13	PASS
	Mid	64QAM	6.44	≤ 13	PASS
	High	QPSK	5.16	≤ 13	PASS
	High	16QAM	5.93	≤ 13	PASS
	High	64QAM	6.34	≤ 13	PASS
20	Low	QPSK	5.45	≤ 13	PASS
	Low	16QAM	6.18	≤ 13	PASS
	Low	64QAM	6.49	≤ 13	PASS
	Mid	QPSK	5.40	≤ 13	PASS
	Mid	16QAM	6.13	≤ 13	PASS
	Mid	64QAM	6.45	≤ 13	PASS
	High	QPSK	5.26	≤ 13	PASS
	High	16QAM	6.10	≤ 13	PASS
	High	64QAM	6.37	≤ 13	PASS



LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.97	<=13	PASS
	Low	16QAM	5.63	<=13	PASS
	Low	64QAM	6.23	<=13	PASS
	Mid	QPSK	4.63	<=13	PASS
	Mid	16QAM	5.45	<=13	PASS
	Mid	64QAM	6.02	<=13	PASS
	High	QPSK	4.67	<=13	PASS
	High	16QAM	5.39	<=13	PASS
	High	64QAM	6.12	<=13	PASS
3	Low	QPSK	5.00	<=13	PASS
	Low	16QAM	5.80	<=13	PASS
	Low	64QAM	6.24	<=13	PASS
	Mid	QPSK	4.82	<=13	PASS
	Mid	16QAM	5.59	<=13	PASS
	Mid	64QAM	6.07	<=13	PASS
	High	QPSK	4.78	<=13	PASS
	High	16QAM	5.53	<=13	PASS
	High	64QAM	6.13	<=13	PASS
5	Low	QPSK	5.27	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Low	64QAM	6.31	<=13	PASS
	Mid	QPSK	5.13	<=13	PASS
	Mid	16QAM	5.78	<=13	PASS
	Mid	64QAM	6.22	<=13	PASS
	High	QPSK	5.10	<=13	PASS
	High	16QAM	5.72	<=13	PASS
	High	64QAM	6.21	<=13	PASS
10	Low	QPSK	5.14	<=13	PASS
	Low	16QAM	5.87	<=13	PASS
	Low	64QAM	6.26	<=13	PASS
	Mid	QPSK	5.21	<=13	PASS
	Mid	16QAM	5.81	<=13	PASS
	Mid	64QAM	6.25	<=13	PASS
	High	QPSK	5.16	<=13	PASS
	High	16QAM	5.87	<=13	PASS
	High	64QAM	6.28	<=13	PASS



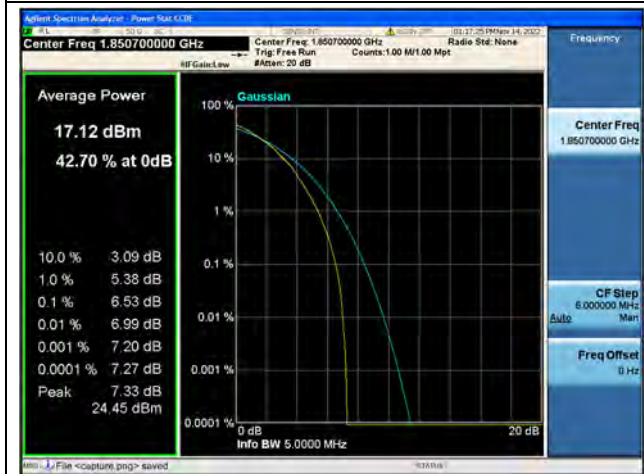
15	Low	QPSK	5.01	<=13	PASS
	Low	16QAM	5.72	<=13	PASS
	Low	64QAM	6.24	<=13	PASS
	Mid	QPSK	4.94	<=13	PASS
	Mid	16QAM	5.70	<=13	PASS
	Mid	64QAM	6.17	<=13	PASS
	High	QPSK	5.01	<=13	PASS
	High	16QAM	5.75	<=13	PASS
	High	64QAM	6.27	<=13	PASS
20	Low	QPSK	5.09	<=13	PASS
	Low	16QAM	5.86	<=13	PASS
	Low	64QAM	6.29	<=13	PASS
	Mid	QPSK	5.13	<=13	PASS
	Mid	16QAM	5.82	<=13	PASS
	Mid	64QAM	6.24	<=13	PASS
	High	QPSK	5.18	<=13	PASS
	High	16QAM	5.97	<=13	PASS
	High	64QAM	6.36	<=13	PASS



Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



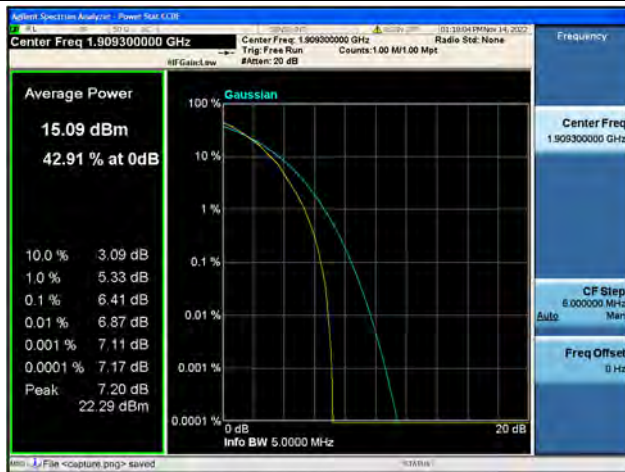
Band2 / 1.4MHz / Mid CH / 64QAM



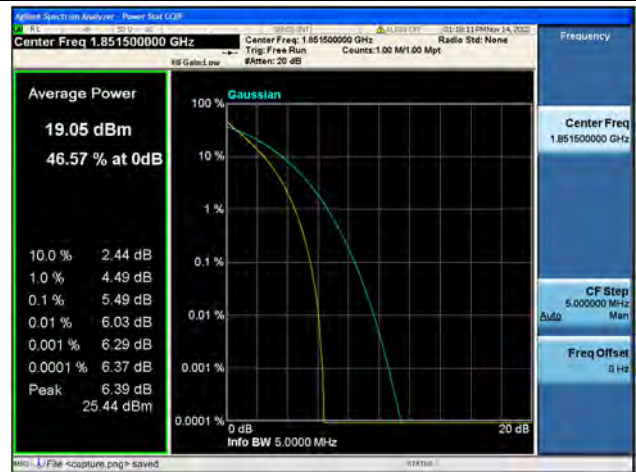
Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



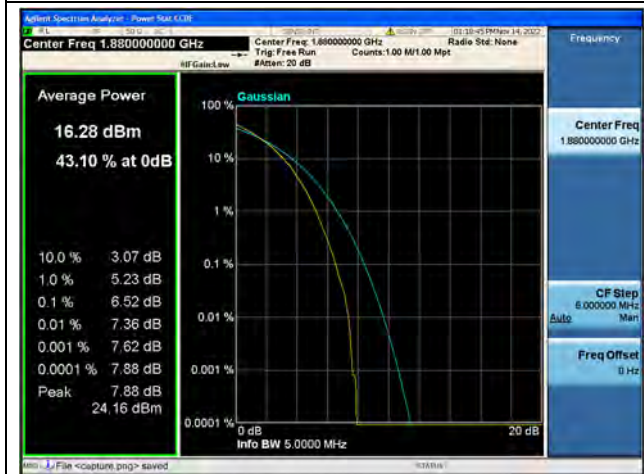
Band2 / 3MHz / Low CH / 64QAM



Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



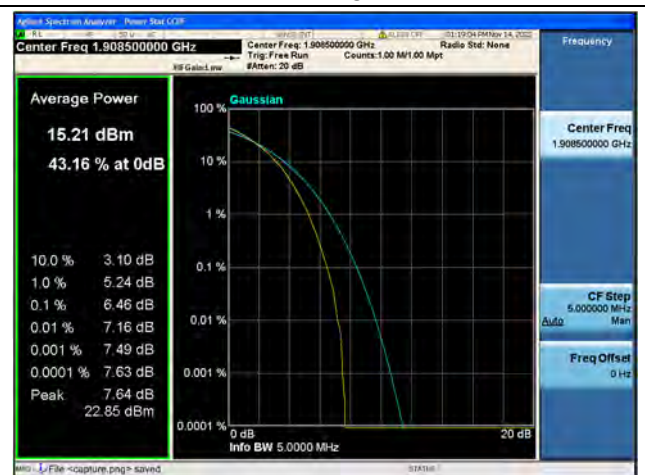
Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM



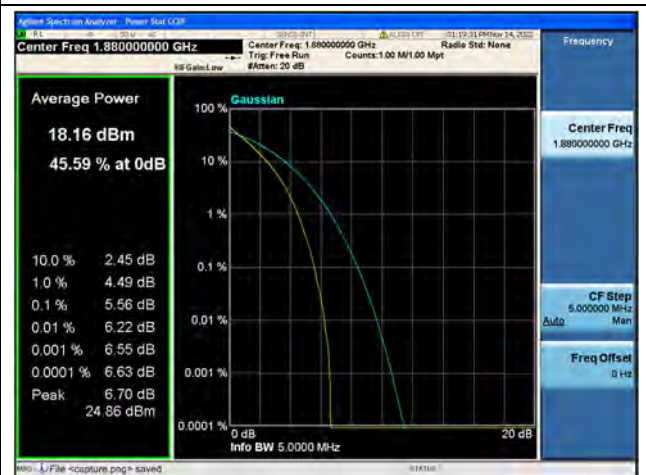
Band2 / 5MHz / Low CH / QPSK



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