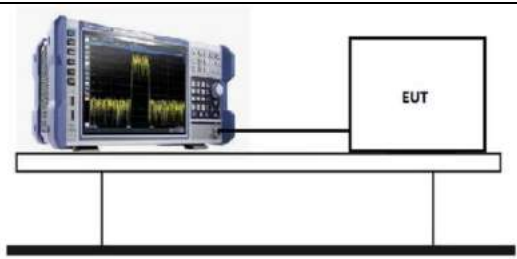


### 6. MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.745-5.850 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 30dBm
Test setup:	
Test procedure:	<p style="text-align: center;"><b>Measurement using an RF average power meter</b></p> <ul style="list-style-type: none"> <li>(i) Measurements may be performed using a wideband RF spectrum Analyser with a thermocouple detector or equivalent if all of the conditions listed below are satisfied <ul style="list-style-type: none"> <li>a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.</li> <li>b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.</li> <li>c) The integration period of the spectrum Analyser exceeds the repetition period of the transmitted signal by at least a factor of five.</li> </ul> </li> <li>(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).</li> <li>(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.</li> <li>(iv) Adjust the measurement in dBm by adding <math>10 \log(1/x)</math> where x is the duty cycle (e.g., <math>10\log(1/0.25)</math> if the duty cycle is 25 percent).</li> </ul>
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 6 for details

**6.1. TEST RESULT**

**Antenna 0:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	22.27	21.88	21.91	23.18	23.98	Pass
40	5200.00	22.25	21.90	21.84	23.10	23.98	Pass
48	5240.00	22.58	22.04	22.14	23.55	23.98	Pass
149	5745.00	25.76	25.60	26.11	27.02	30	Pass
157	5785.00	22.89	23.44	23.70	24.47	30	Pass
165	5825.00	23.60	23.67	24.09	25.05	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	22.10	22.06	23.05	23.98	Pass
46	5230.00	22.33	22.36	23.30	23.98	Pass
151	5755.00	25.27	25.14	25.90	30	Pass
159	5795.00	23.67	23.60	24.67	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.82	22.99	23.98	Pass
155	5775.00	23.88	24.73	30	Pass

**Antenna 1:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	21.94	21.81	21.67	22.80	23.98	Pass
40	5200.00	21.99	21.73	21.76	22.89	23.98	Pass
48	5240.00	22.27	21.86	21.81	23.26	23.98	Pass
149	5745.00	24.88	25.08	24.91	25.75	30	Pass
157	5785.00	22.77	22.81	22.76	23.70	30	Pass
165	5825.00	23.17	23.08	23.09	23.98	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.79	21.88	22.77	23.98	Pass
46	5230.00	22.15	22.17	23.19	23.98	Pass
151	5755.00	24.19	24.37	25.31	30	Pass
159	5795.00	22.80	22.92	23.91	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.67	22.57	23.98	Pass
155	5775.00	22.99	23.84	30	Pass

**Antenna 2:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	21.69	21.36	21.31	22.64	23.98	Pass
40	5200.00	21.66	21.34	21.25	22.59	23.98	Pass
48	5240.00	22.13	21.67	21.74	23.18	23.98	Pass
149	5745.00	24.75	24.91	24.74	25.85	30	Pass
157	5785.00	22.90	23.03	22.93	23.98	30	Pass
165	5825.00	23.44	23.46	23.54	24.46	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.51	21.49	22.38	23.98	Pass
46	5230.00	21.86	21.90	22.99	23.98	Pass
151	5755.00	24.54	24.49	25.44	30	Pass
159	5795.00	23.40	23.25	24.29	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.39	22.52	23.98	Pass
155	5775.00	23.26	24.05	30	Pass

**Antenna 3:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	21.87	21.47	21.47	22.64	23.98	Pass
40	5200.00	21.78	21.49	21.50	22.75	23.98	Pass
48	5240.00	22.15	21.68	21.70	23.00	23.98	Pass
149	5745.00	24.69	24.99	24.85	25.84	30	Pass
157	5785.00	22.43	22.68	22.49	23.52	30	Pass
165	5825.00	22.91	23.09	22.83	23.90	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.49	21.56	22.57	23.98	Pass
46	5230.00	21.90	21.91	22.87	23.98	Pass
151	5755.00	24.20	24.19	25.22	30	Pass
159	5795.00	22.76	22.74	23.72	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.42	22.38	23.98	Pass
155	5775.00	22.94	23.69	30	Pass

**Antenna 4:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	22.23	21.87	21.85	23.18	23.98	Pass
40	5200.00	22.19	21.90	21.91	23.10	23.98	Pass
48	5240.00	22.43	22.09	22.14	23.50	23.98	Pass
149	5745.00	25.77	25.70	25.75	26.65	30	Pass
157	5785.00	23.31	23.40	23.38	24.21	30	Pass
165	5825.00	23.58	23.71	23.67	24.43	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.99	22.01	22.85	23.98	Pass
46	5230.00	22.25	22.26	23.27	23.98	Pass
151	5755.00	25.19	25.30	26.18	30	Pass
159	5795.00	23.31	23.31	24.27	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.82	22.83	23.98	Pass
155	5775.00	23.78	24.58	30	Pass

**Antenna 5:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	22.10	21.59	21.71	22.53	23.98	Pass
40	5200.00	22.04	21.63	21.68	22.87	23.98	Pass
48	5240.00	22.30	21.81	21.87	23.31	23.98	Pass
149	5745.00	24.71	24.97	25.10	25.81	30	Pass
157	5785.00	22.65	22.92	22.93	23.56	30	Pass
165	5825.00	23.13	23.16	23.35	23.88	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.94	21.93	22.77	23.98	Pass
46	5230.00	22.20	22.18	23.19	23.98	Pass
151	5755.00	24.31	24.21	25.09	30	Pass
159	5795.00	22.70	22.62	23.56	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.81	22.65	23.98	Pass
155	5775.00	22.95	23.71	30	Pass



**Antenna 6:**

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	21.87	21.45	21.47	22.71	23.98	Pass
40	5200.00	21.81	21.43	21.40	22.76	23.98	Pass
48	5240.00	22.29	21.91	21.80	23.21	23.98	Pass
149	5745.00	24.44	24.87	24.87	25.86	30	Pass
157	5785.00	22.55	22.80	22.83	23.71	30	Pass
165	5825.00	23.34	23.58	23.61	24.43	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.56	21.52	22.38	23.98	Pass
46	5230.00	21.89	21.88	23.00	23.98	Pass
151	5755.00	24.21	24.18	25.11	30	Pass
159	5795.00	22.93	22.89	23.84	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.39	22.44	23.98	Pass
155	5775.00	22.99	23.73	30	Pass

**Antenna 7:**

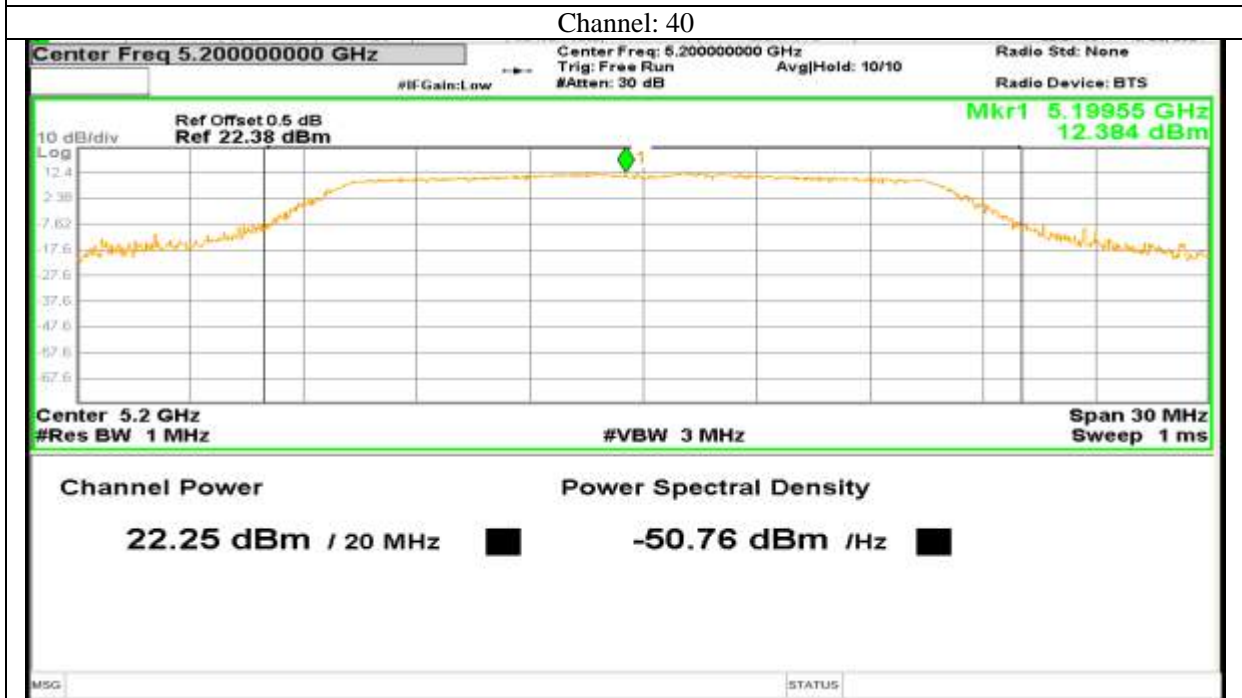
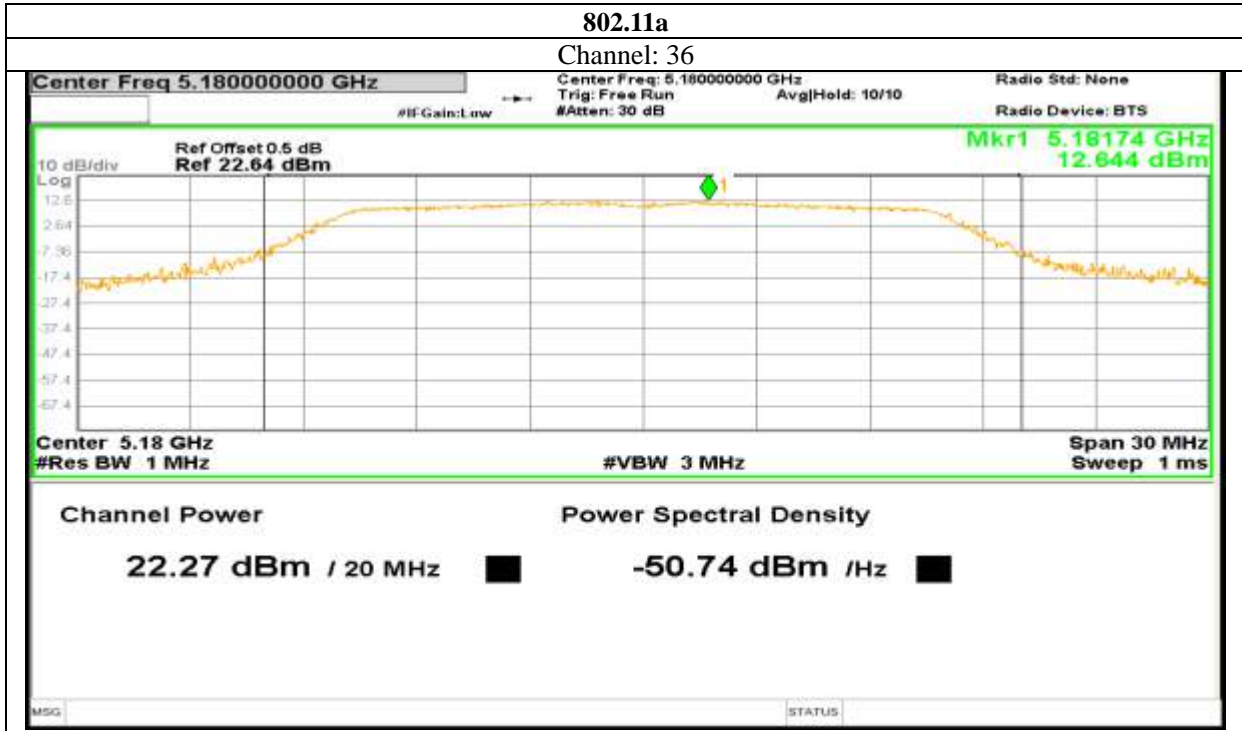
CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	21.93	21.69	21.55	22.82	23.98	Pass
40	5200.00	21.87	21.59	21.60	22.79	23.98	Pass
48	5240.00	22.18	21.83	21.72	23.11	23.98	Pass
149	5745.00	24.56	24.82	24.74	25.88	30	Pass
157	5785.00	22.14	22.25	22.29	23.37	30	Pass
165	5825.00	22.78	22.84	22.90	23.99	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.62	21.66	22.58	23.98	Pass
46	5230.00	22.00	21.96	22.86	23.98	Pass
151	5755.00	24.49	24.34	25.32	30	Pass
159	5795.00	22.55	22.42	23.45	30	Pass

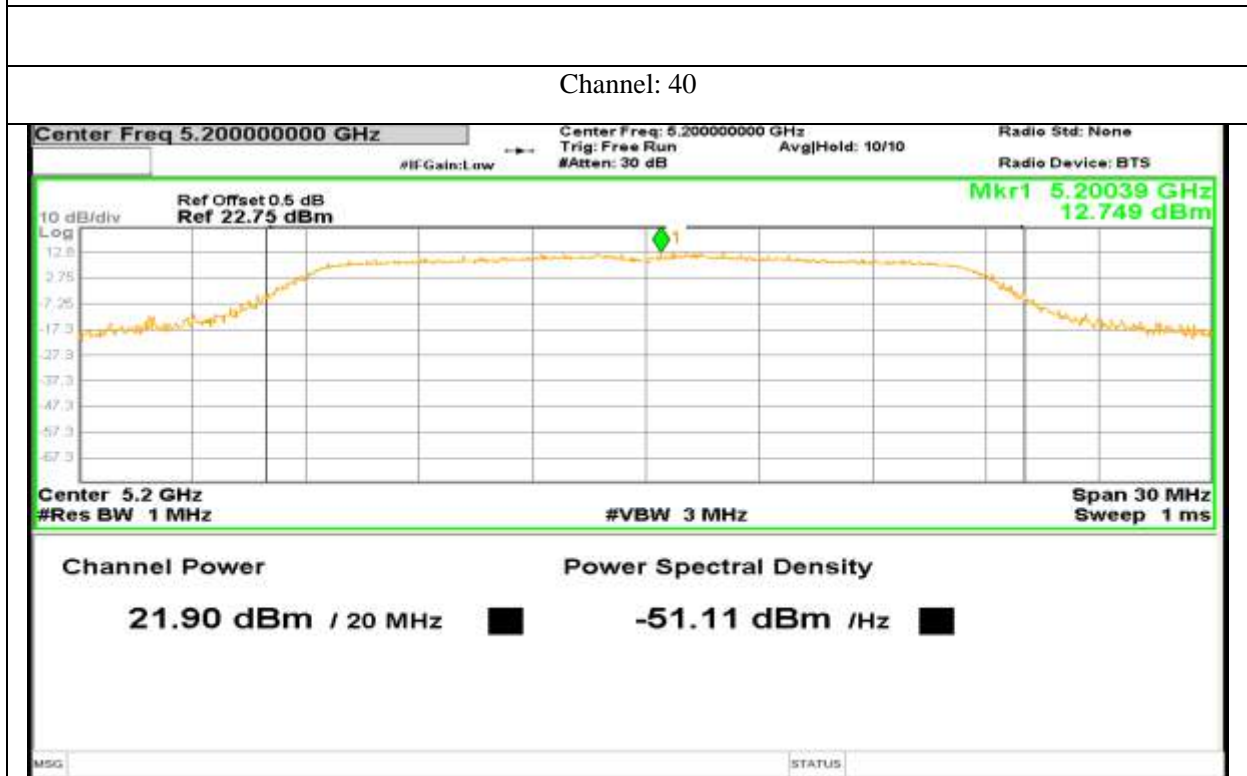
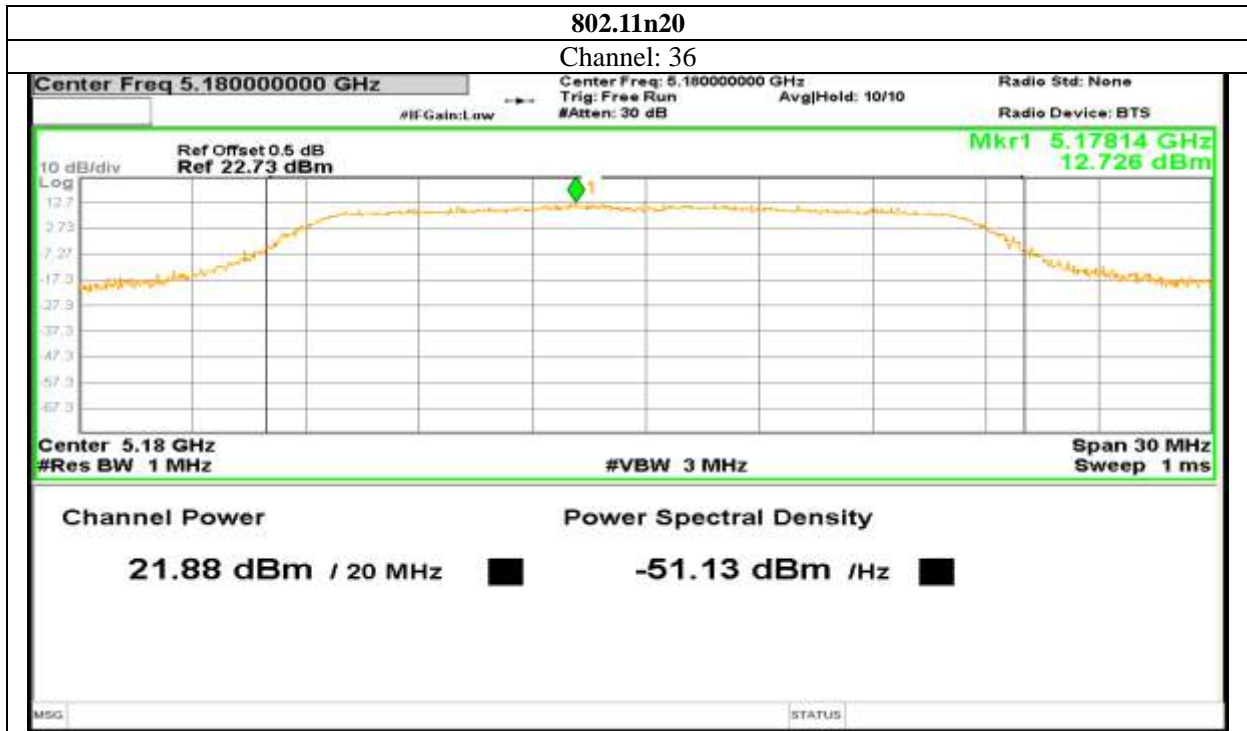
CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	21.48	22.45	23.98	Pass
155	5775.00	22.60	23.72	30	Pass

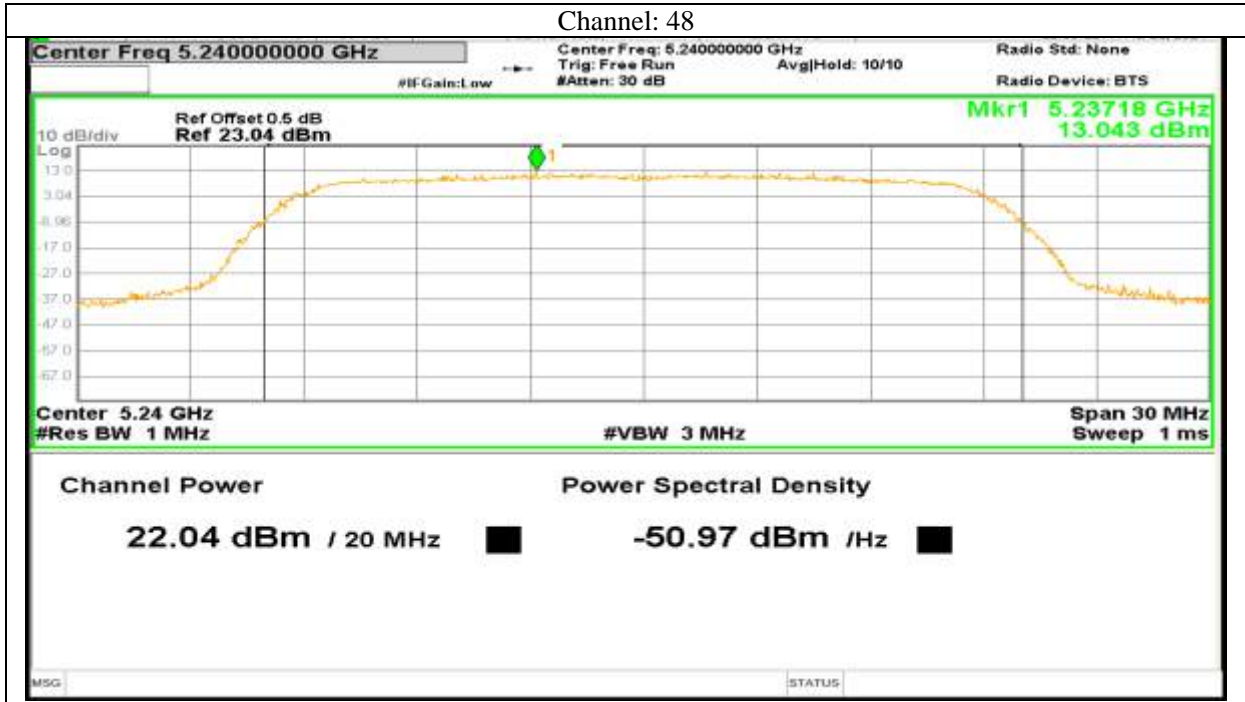
Test plots as followed

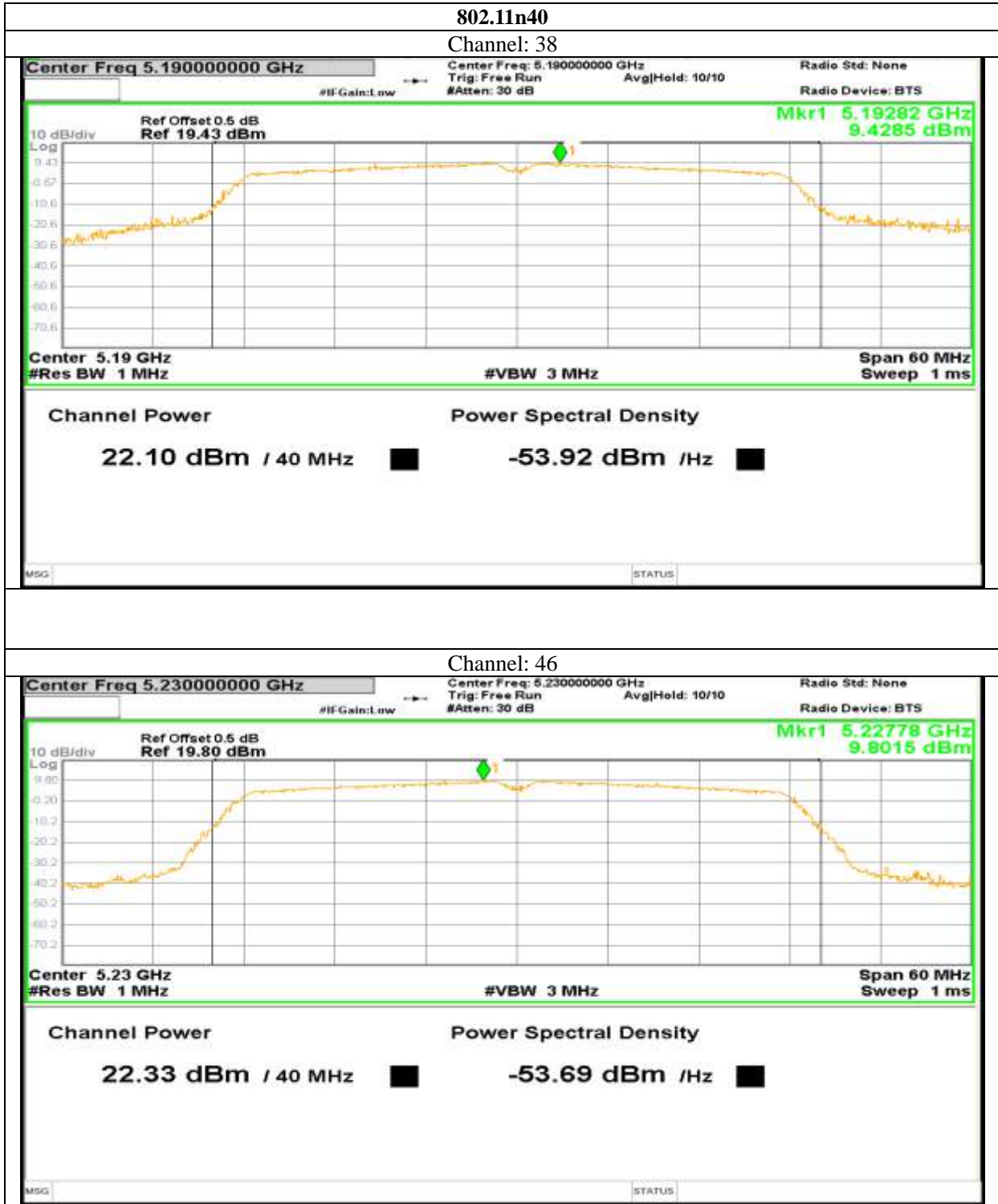
**Antenna 0:**

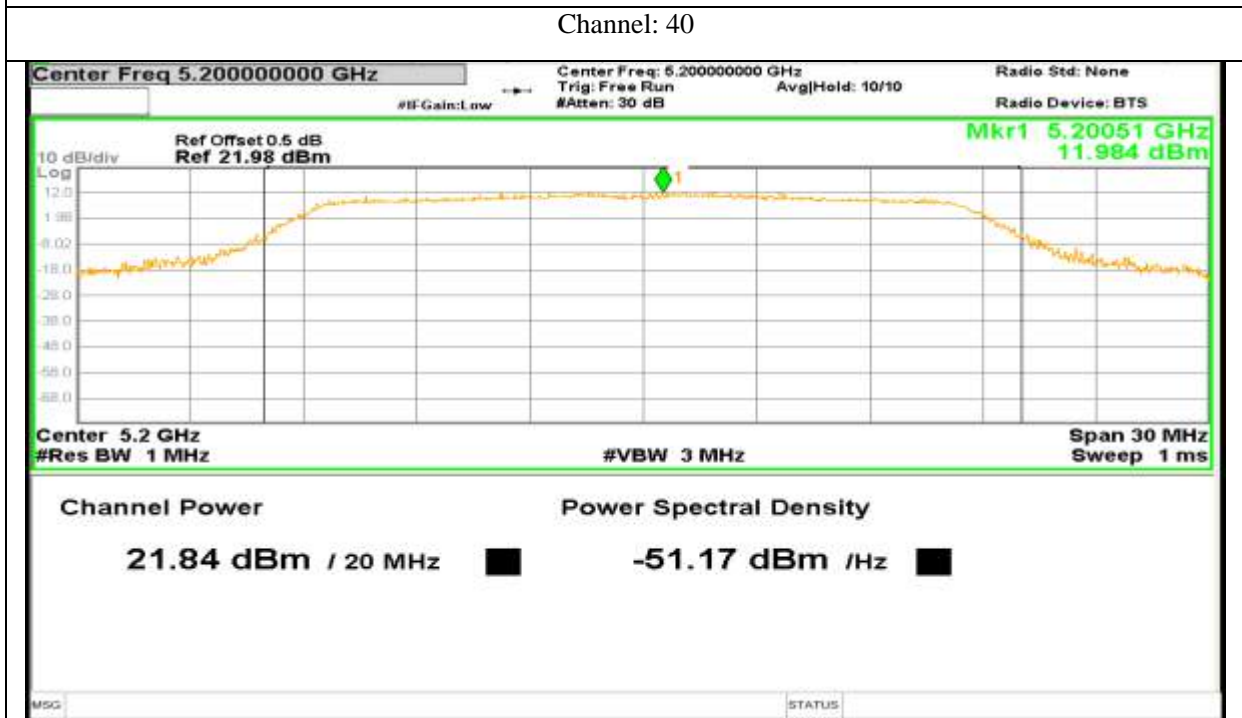
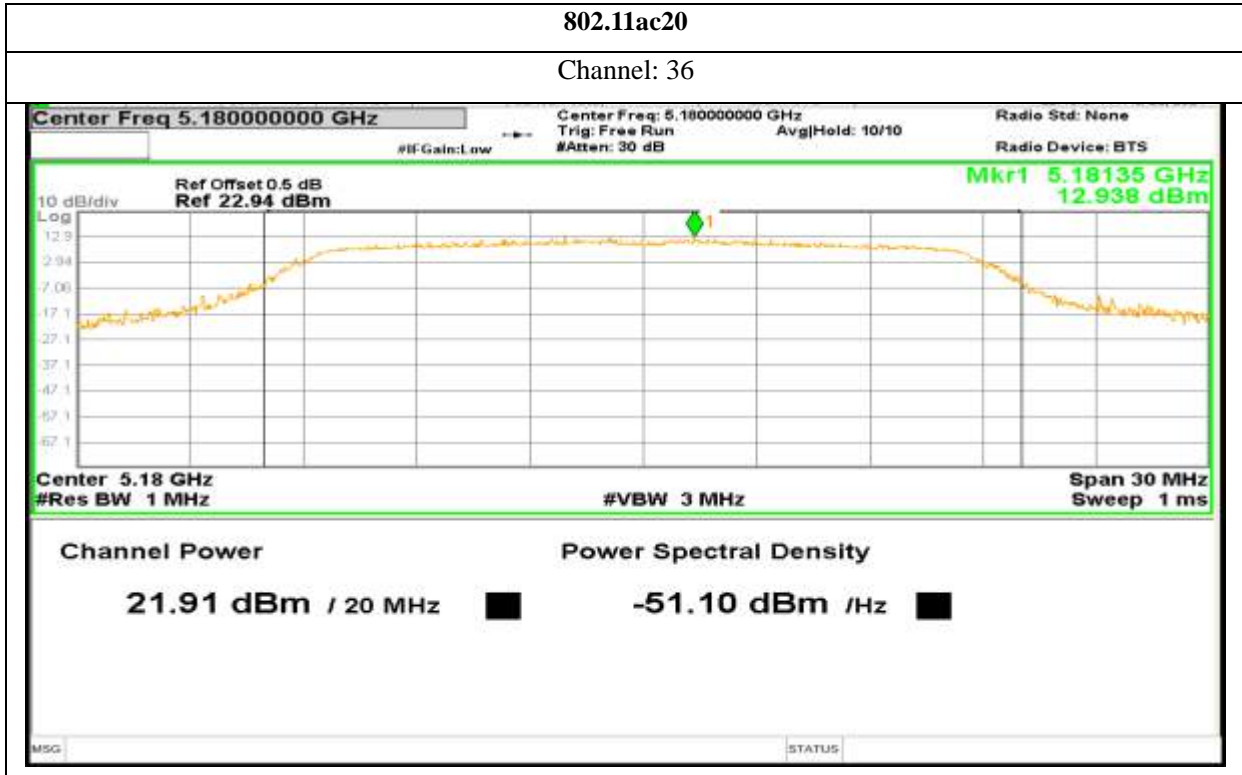




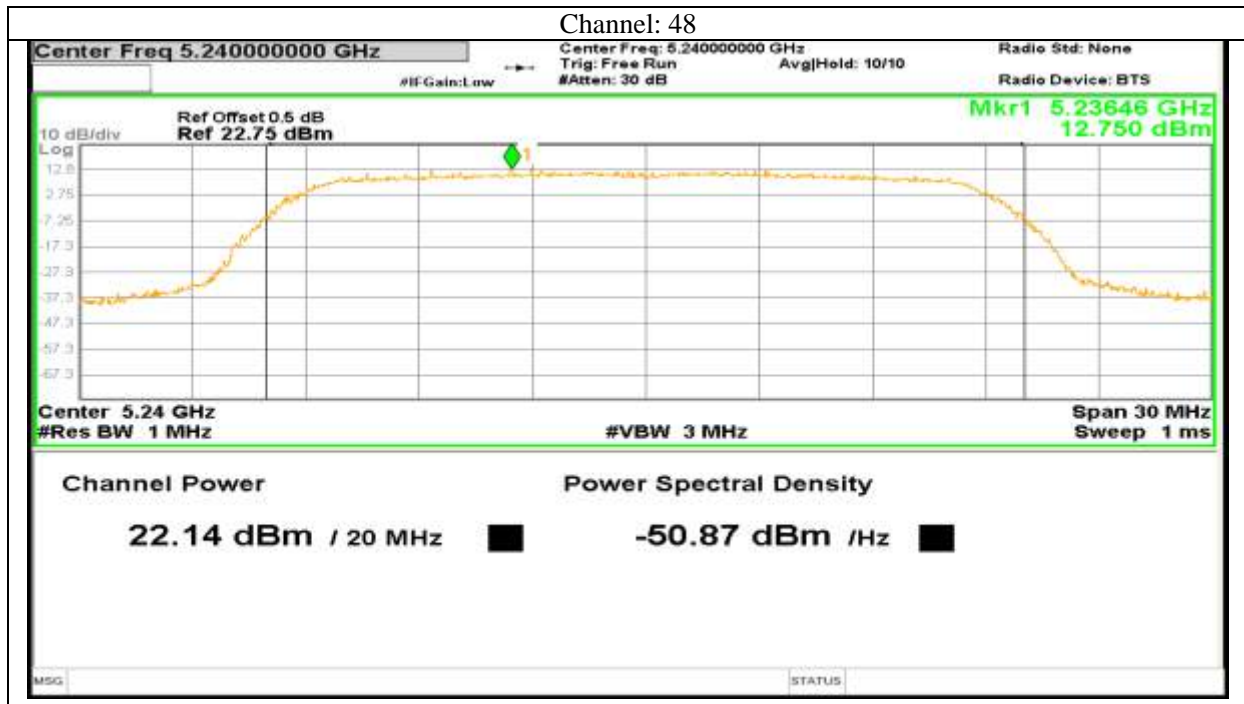


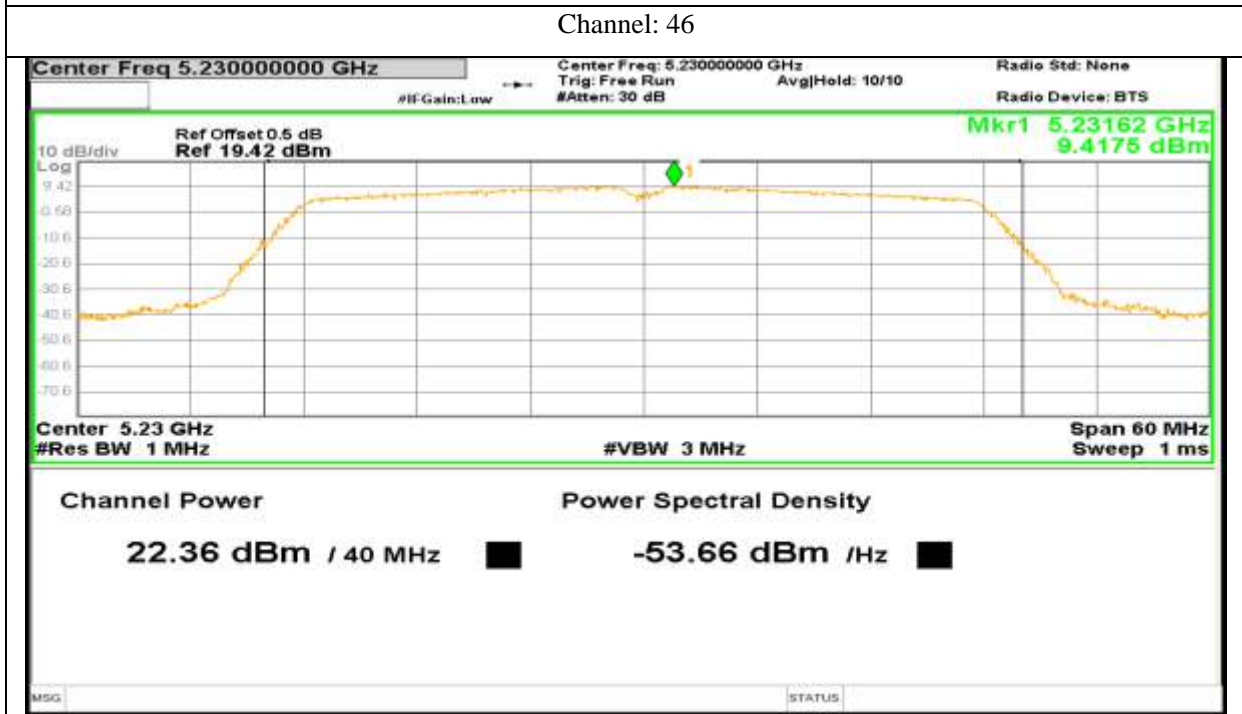
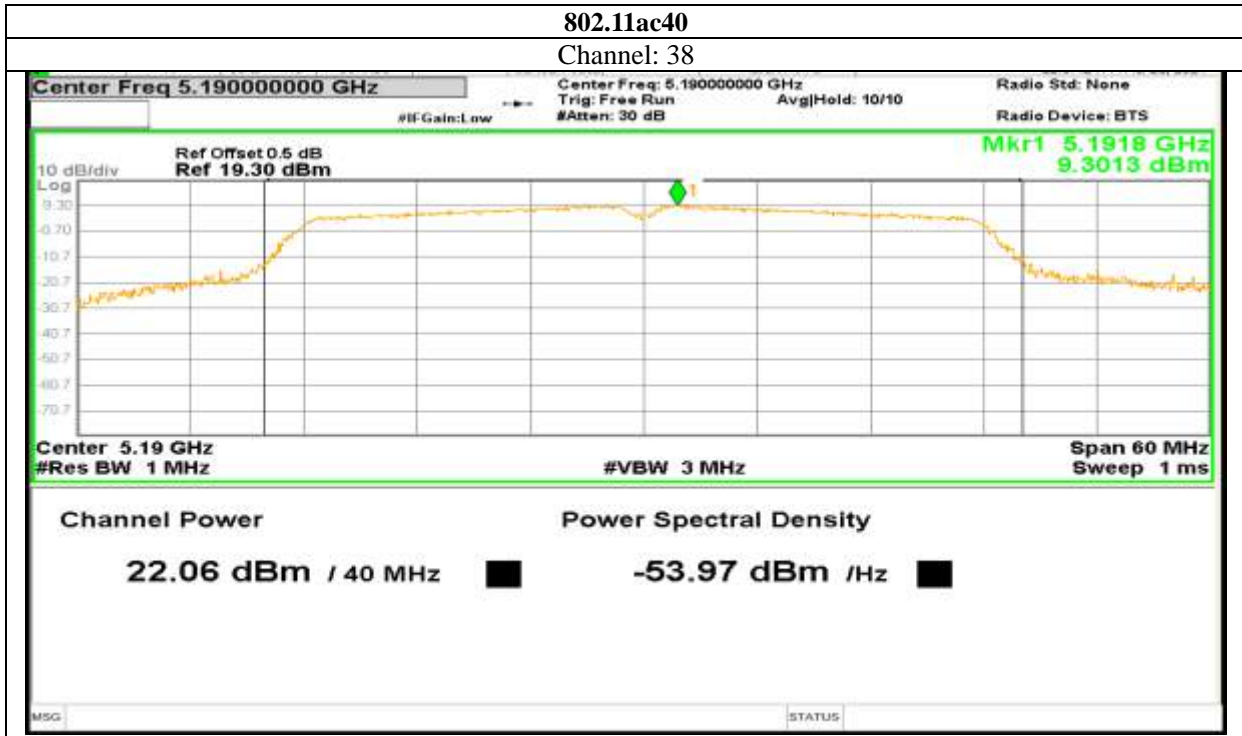


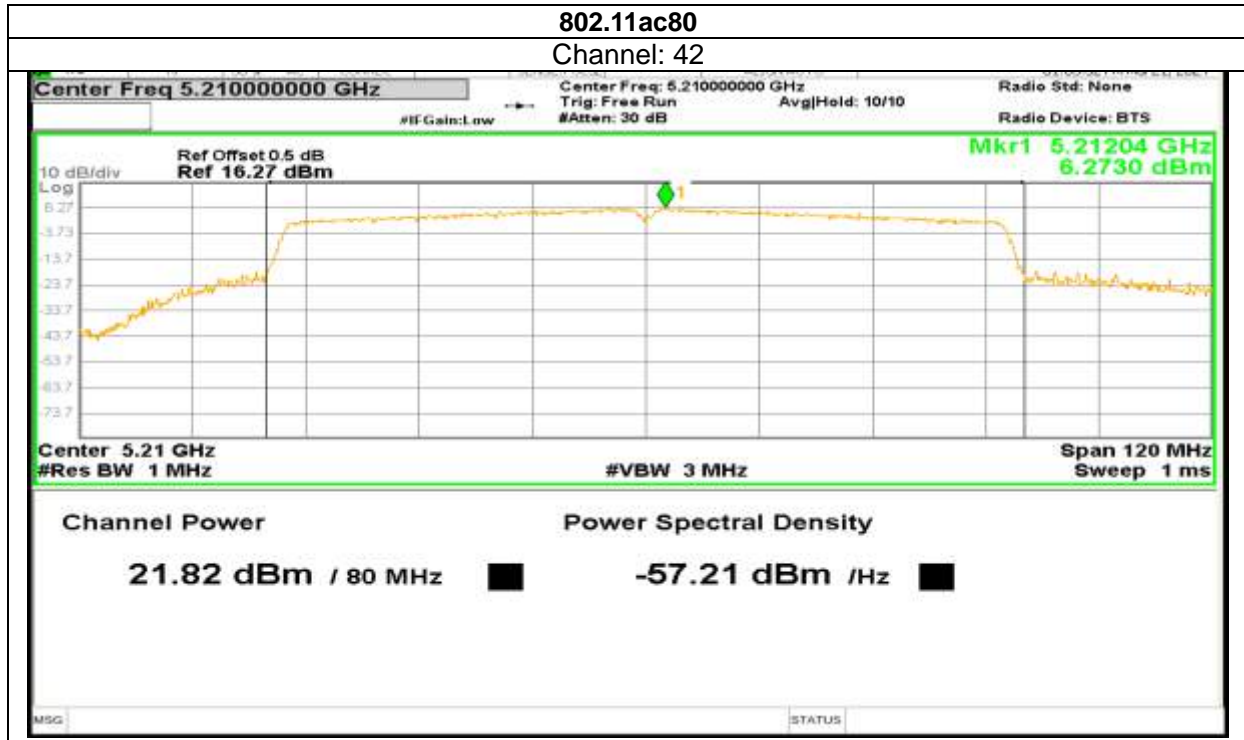




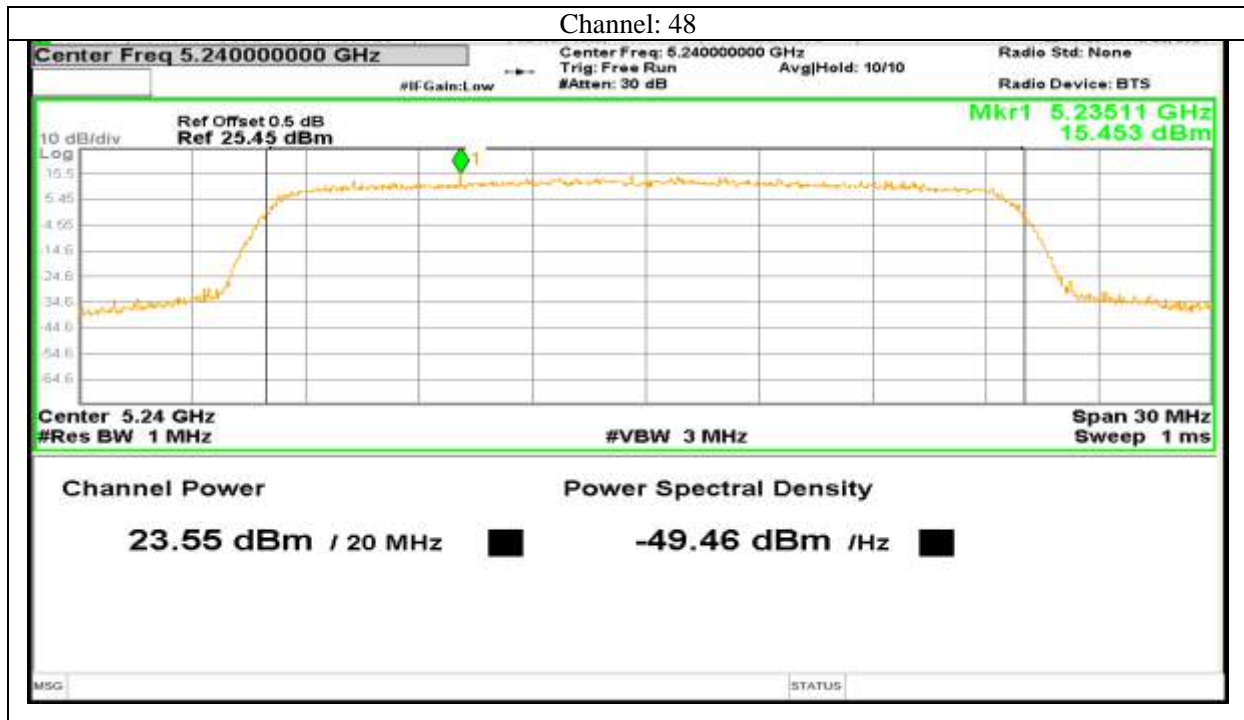


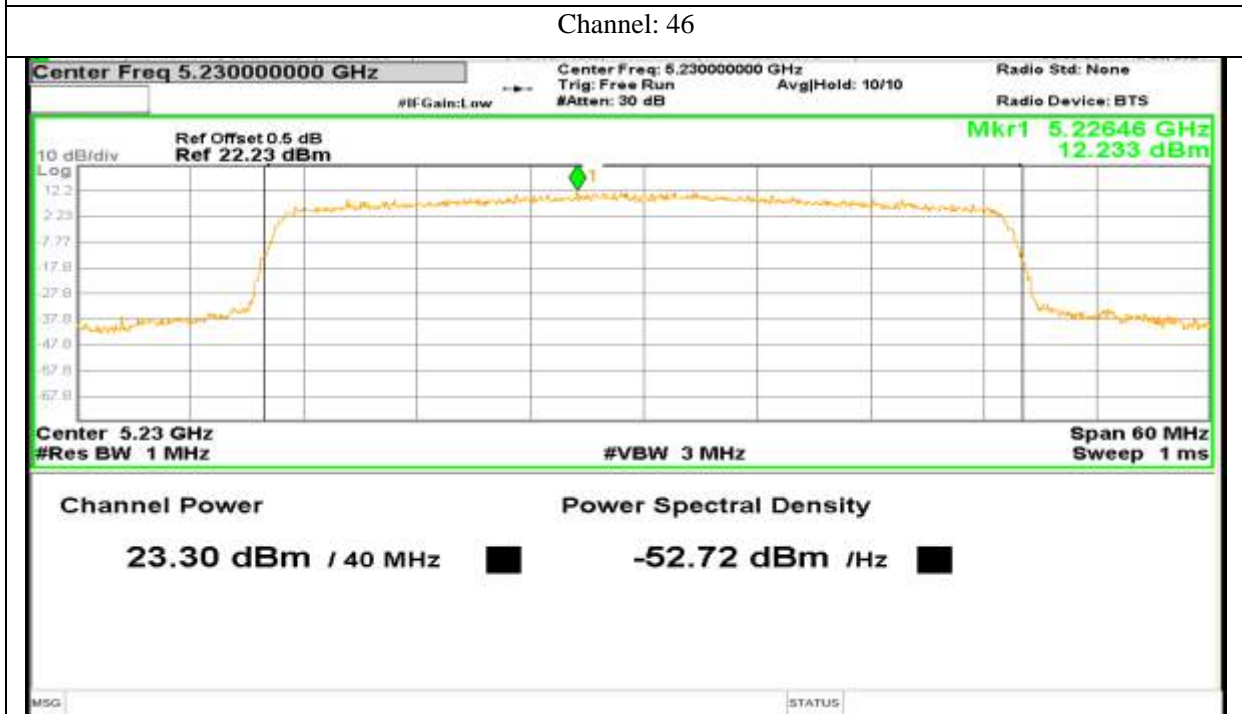


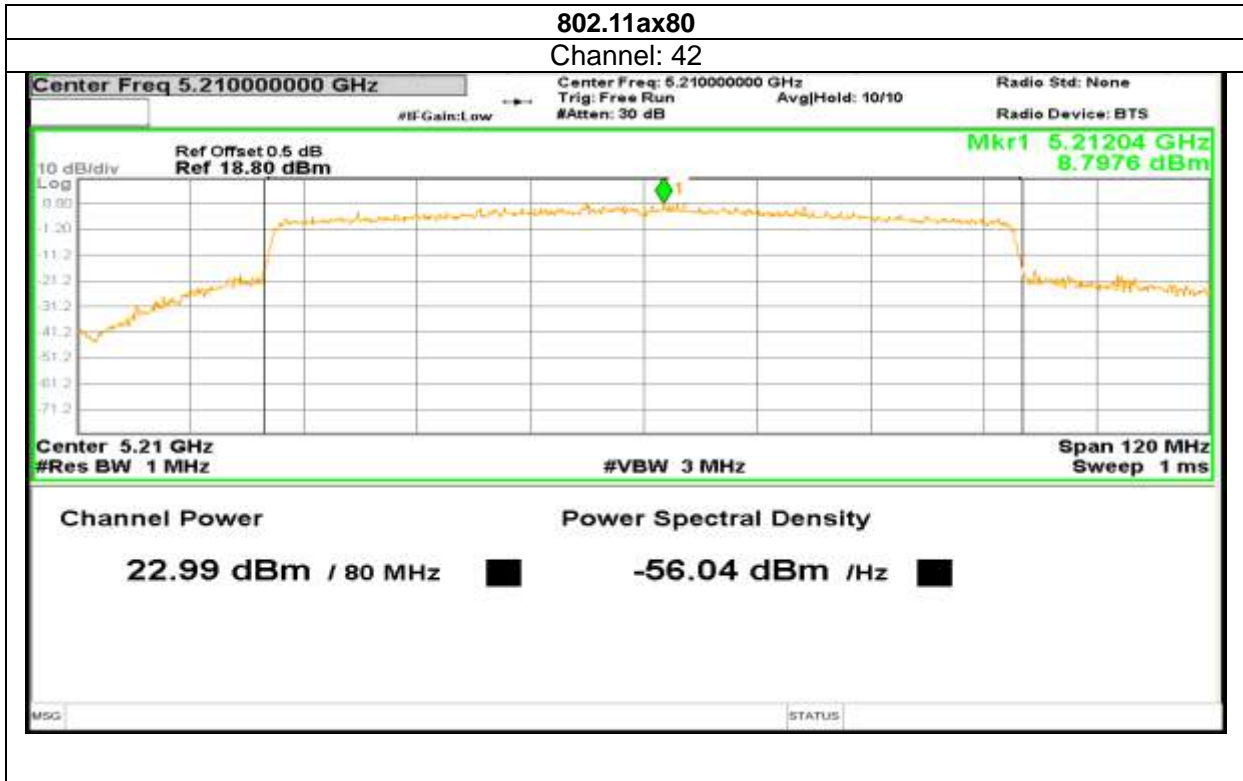


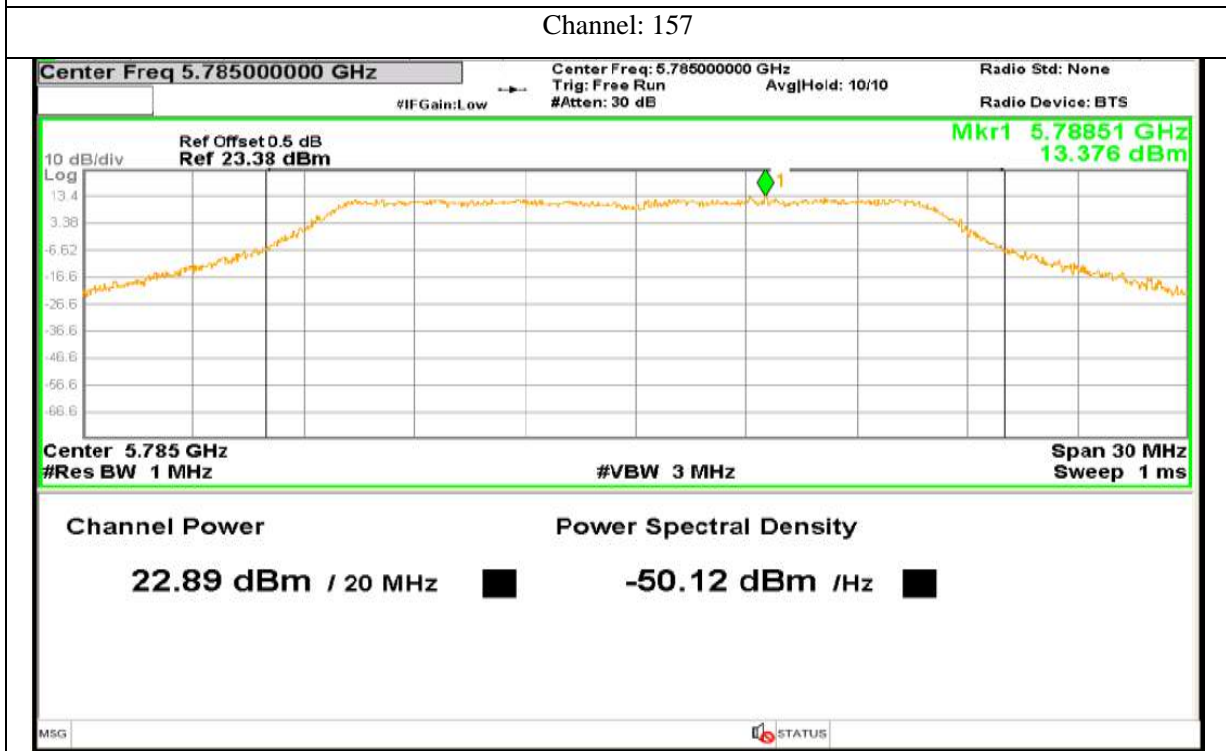
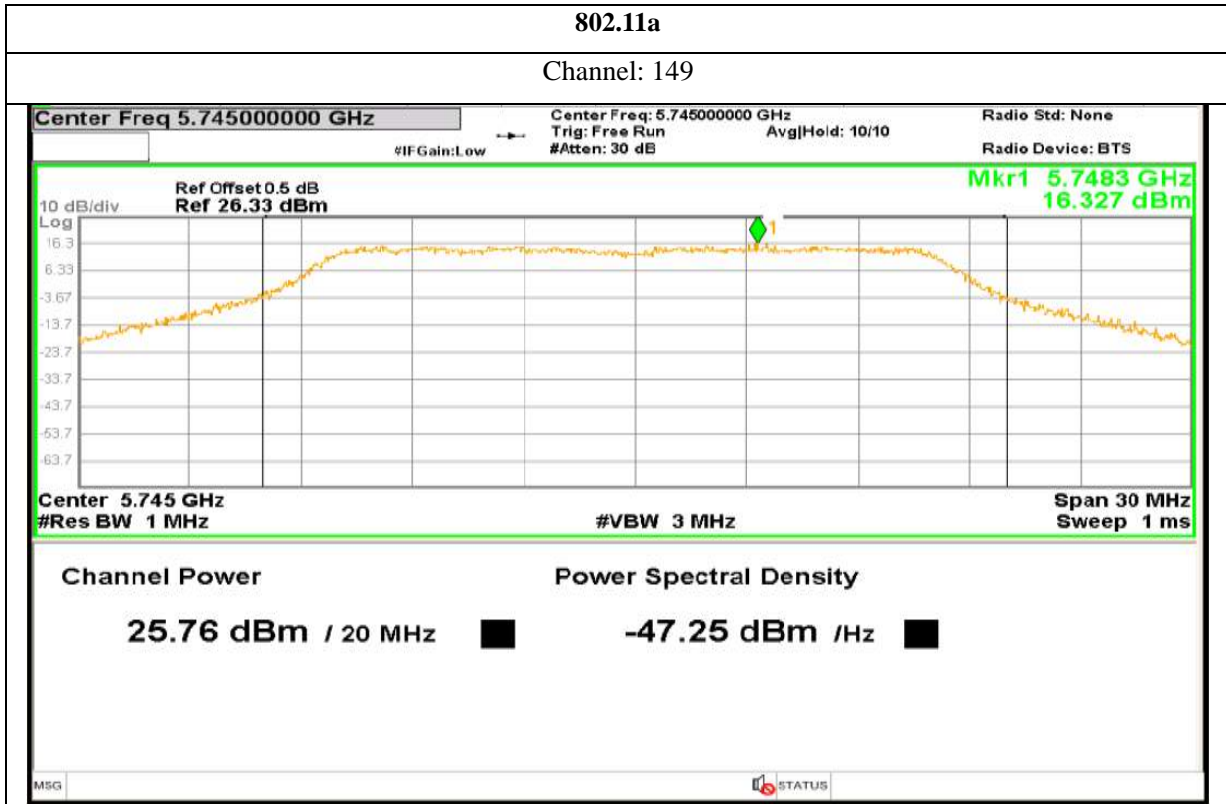




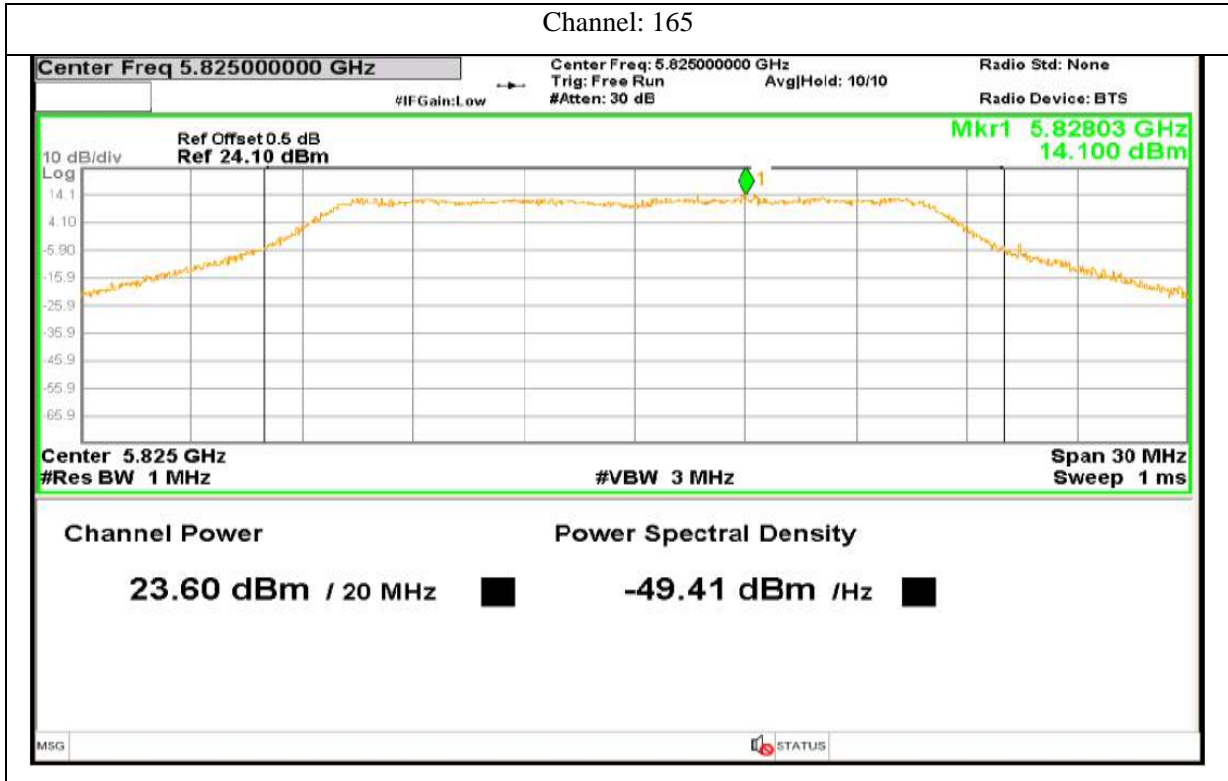


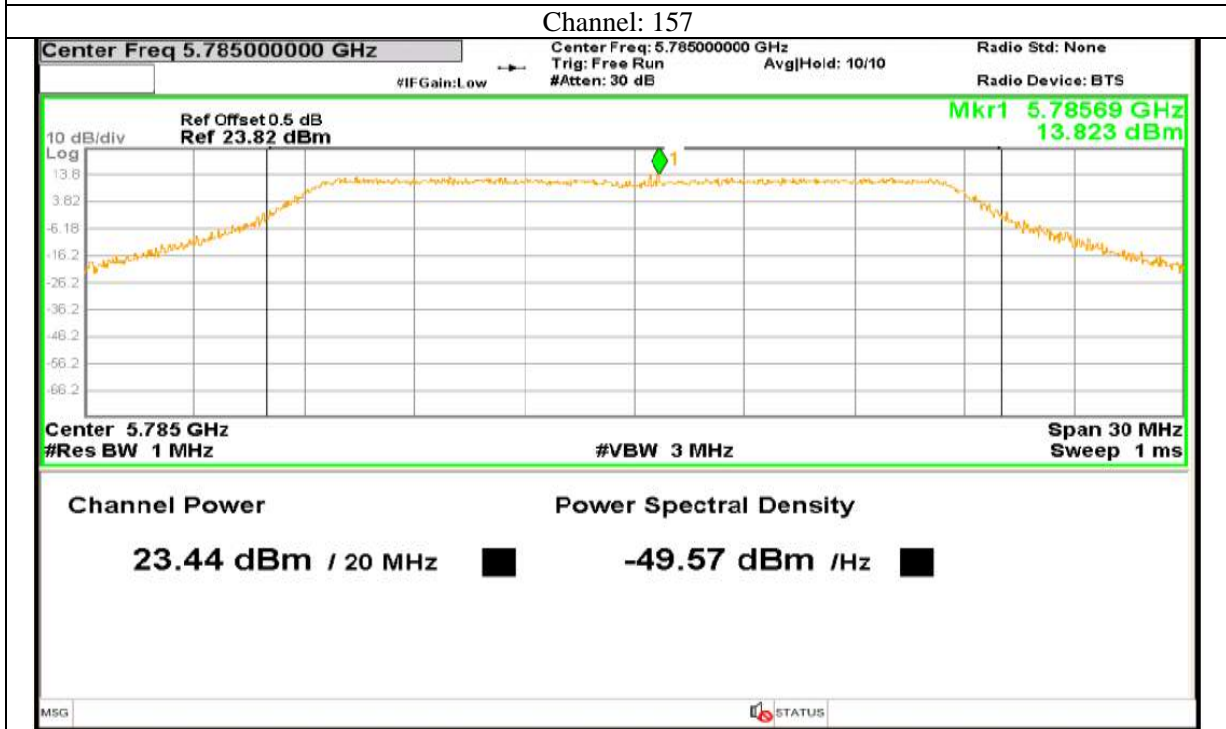
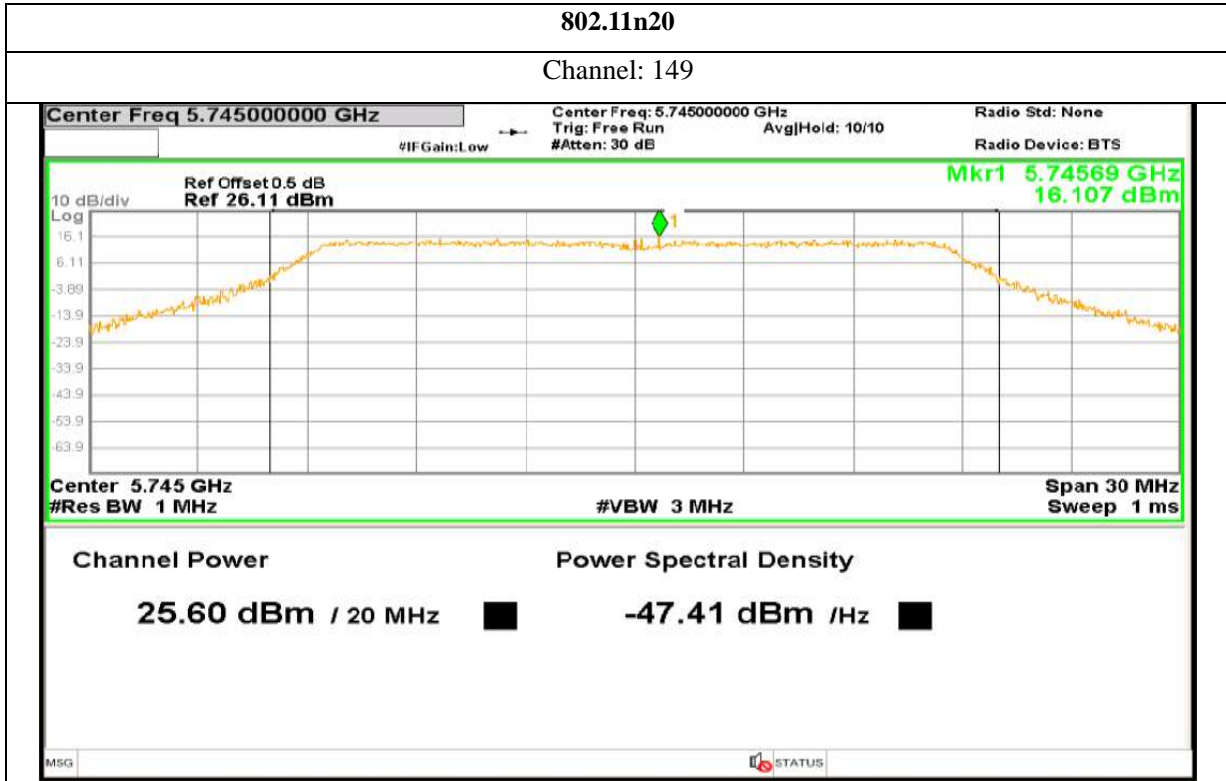


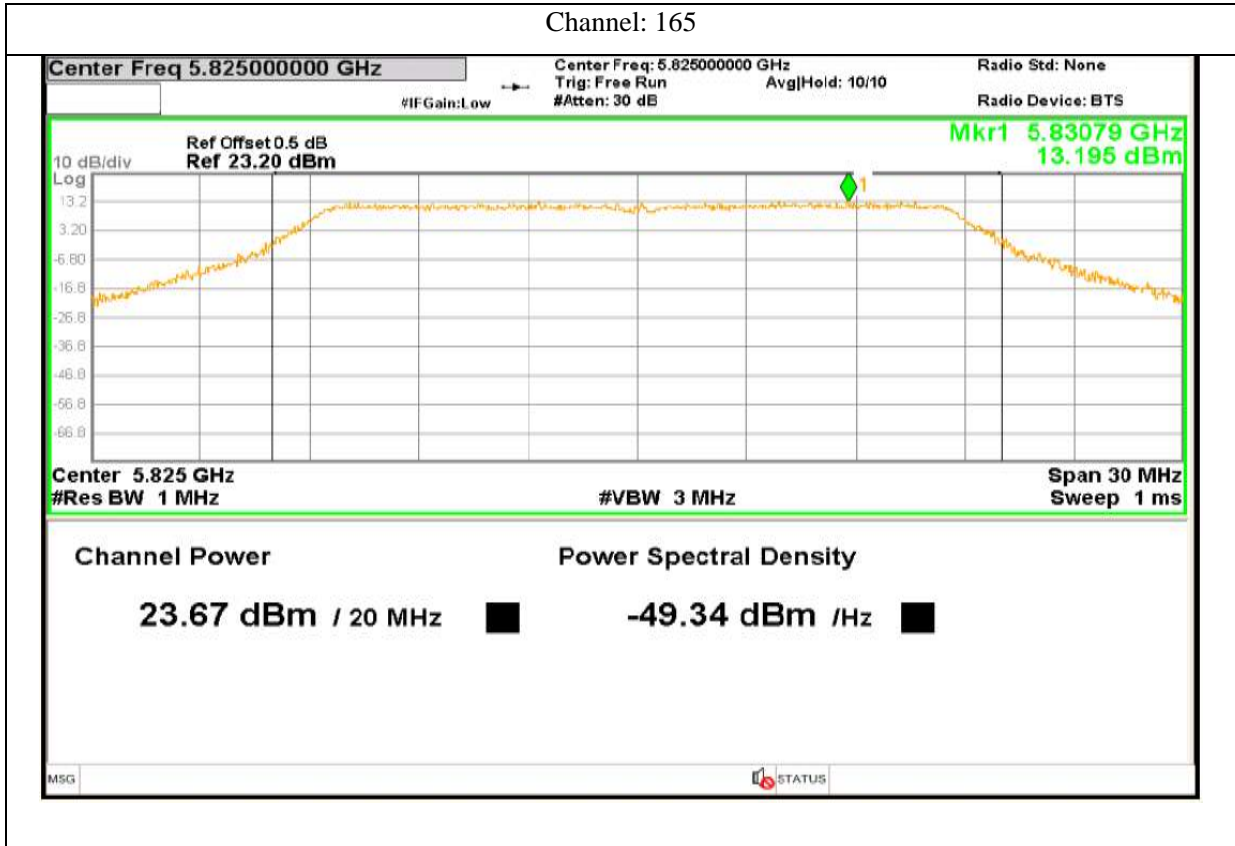


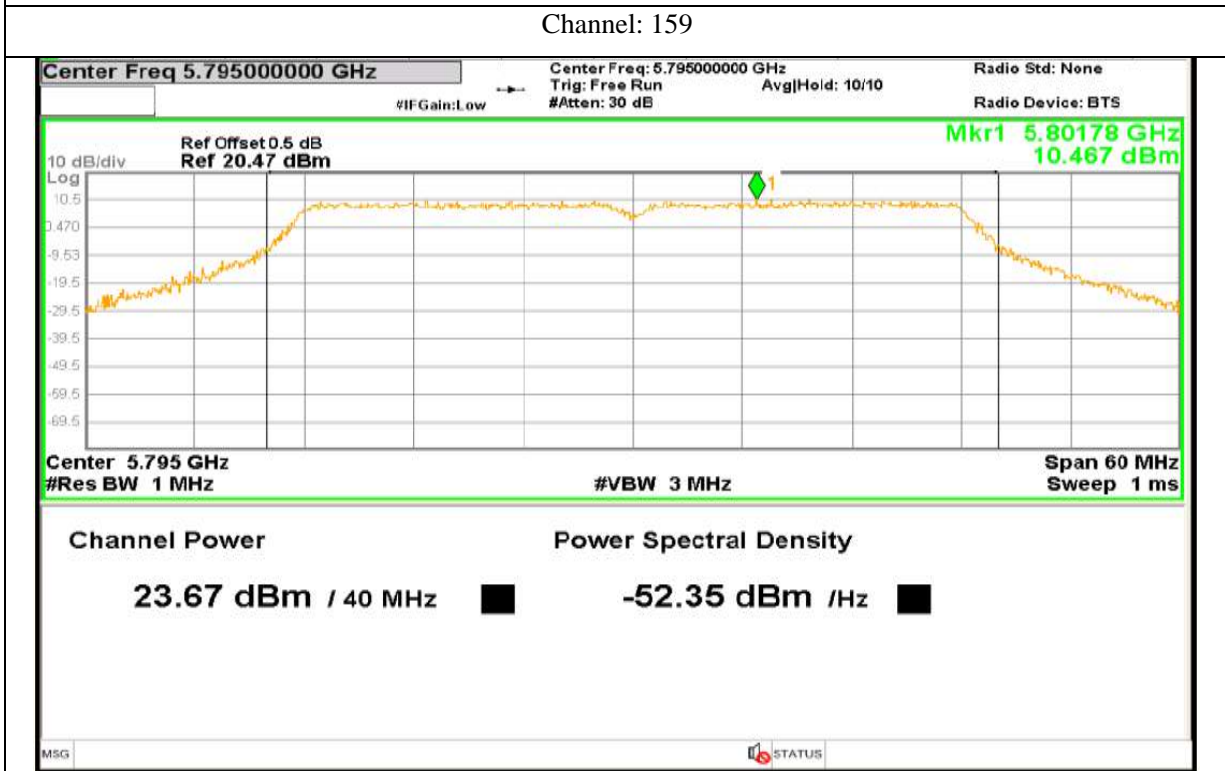
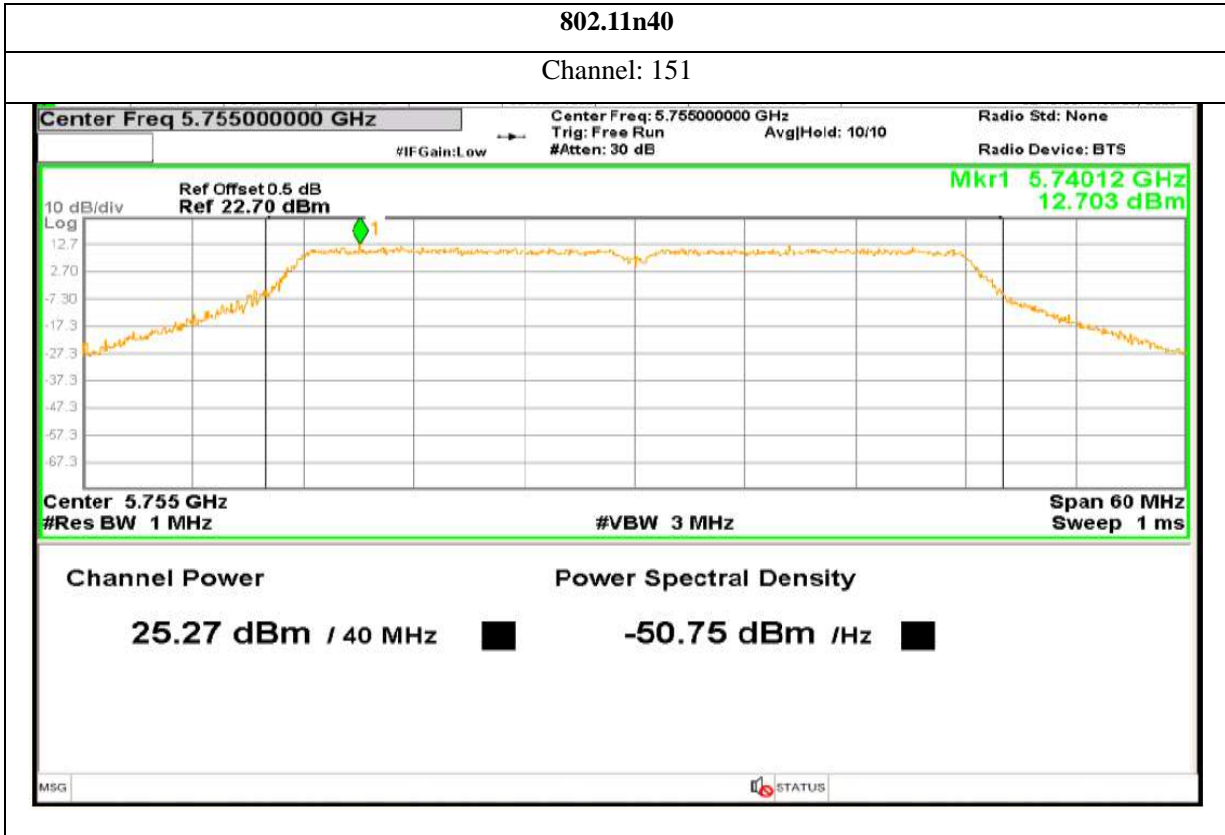


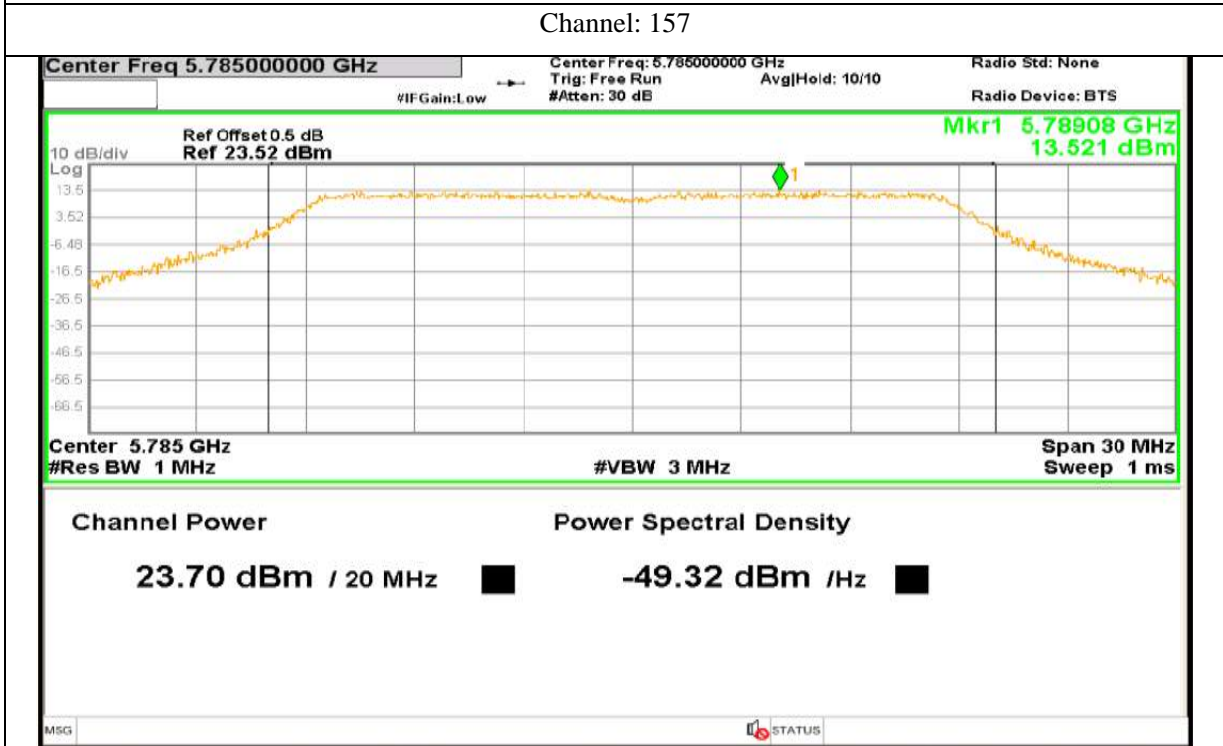
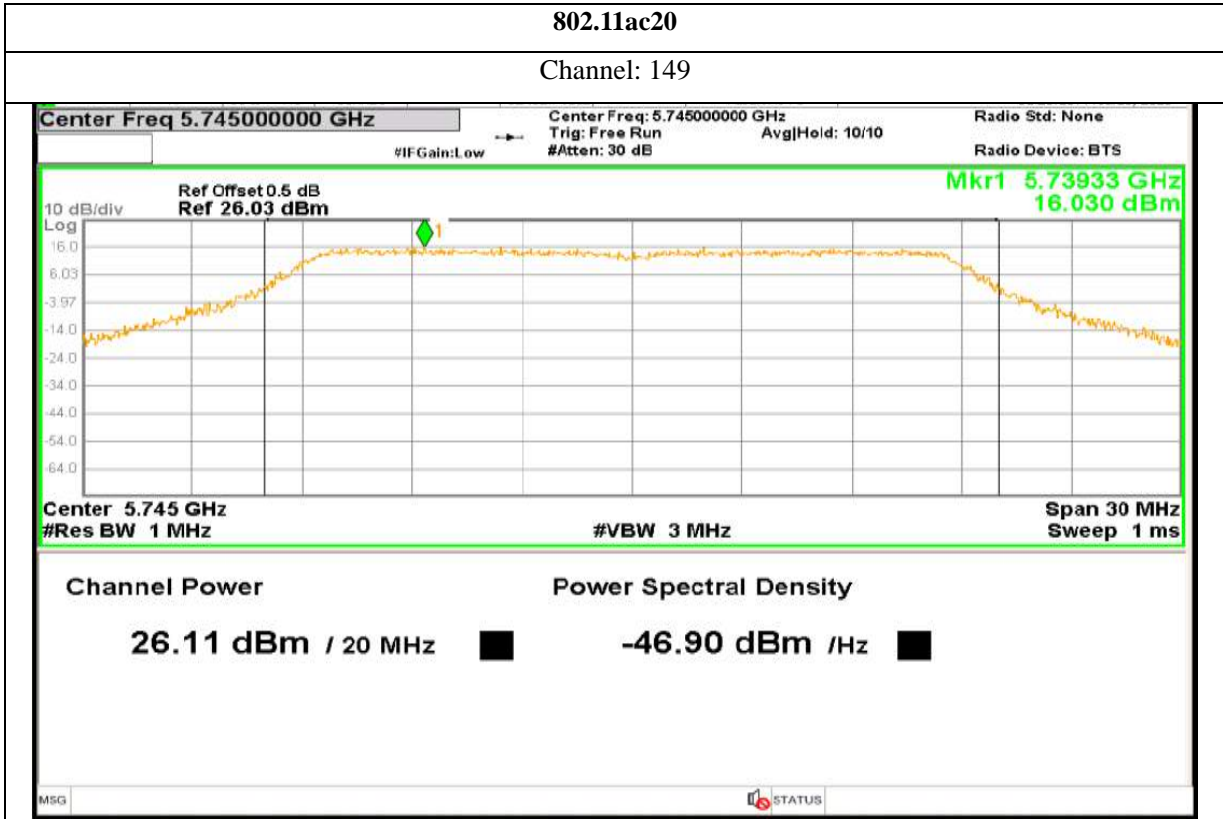


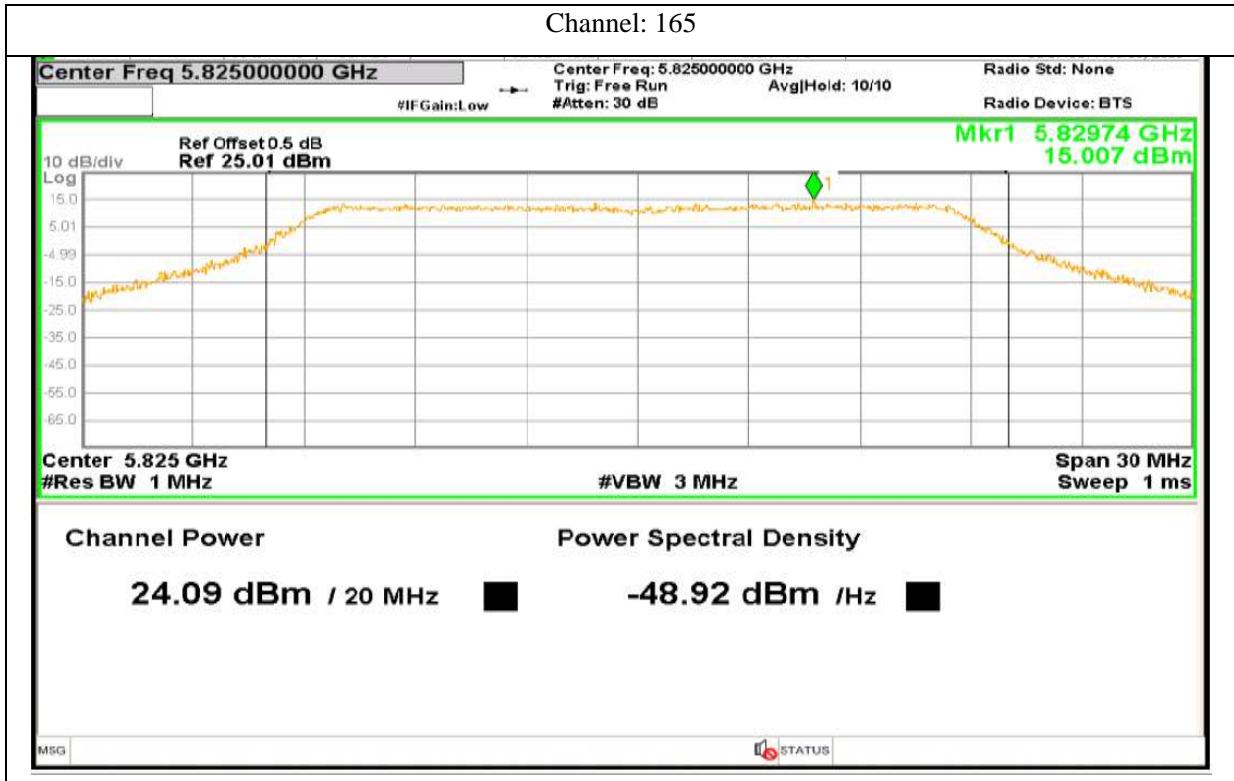




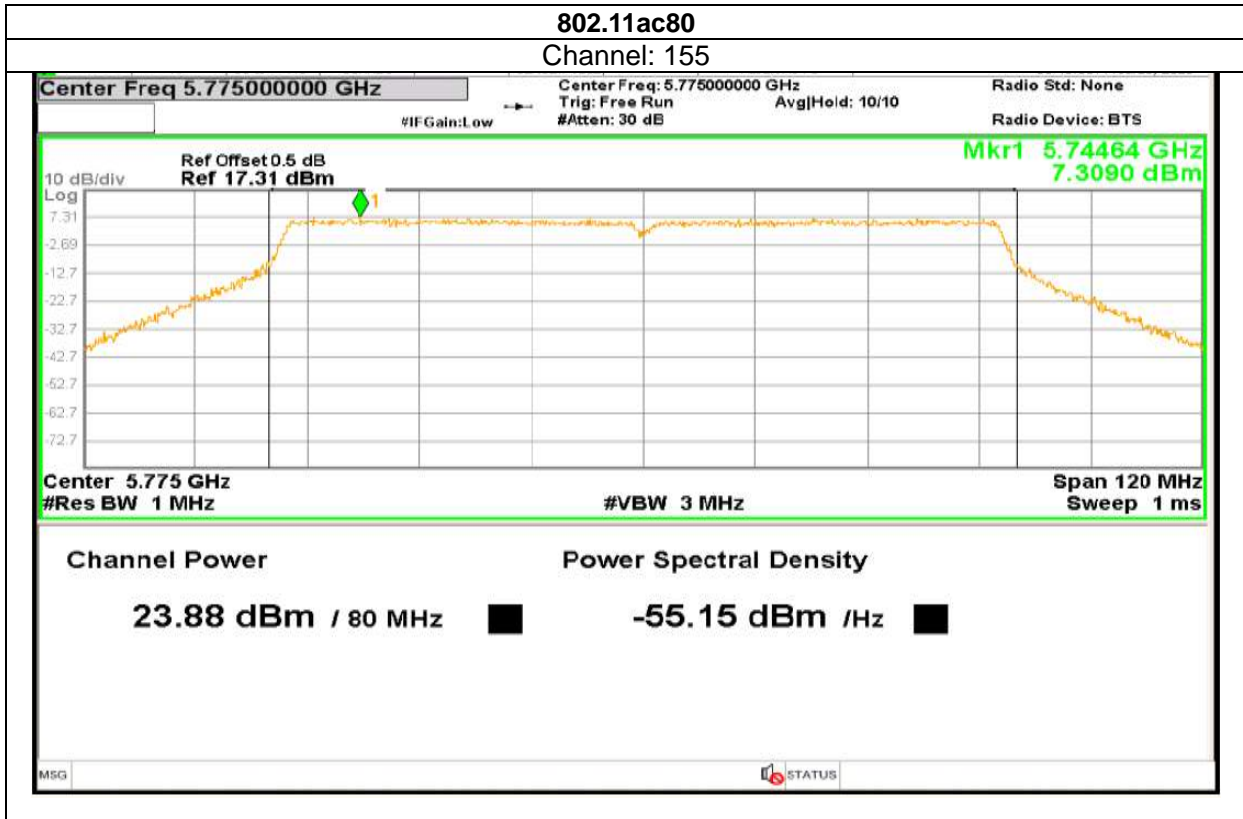




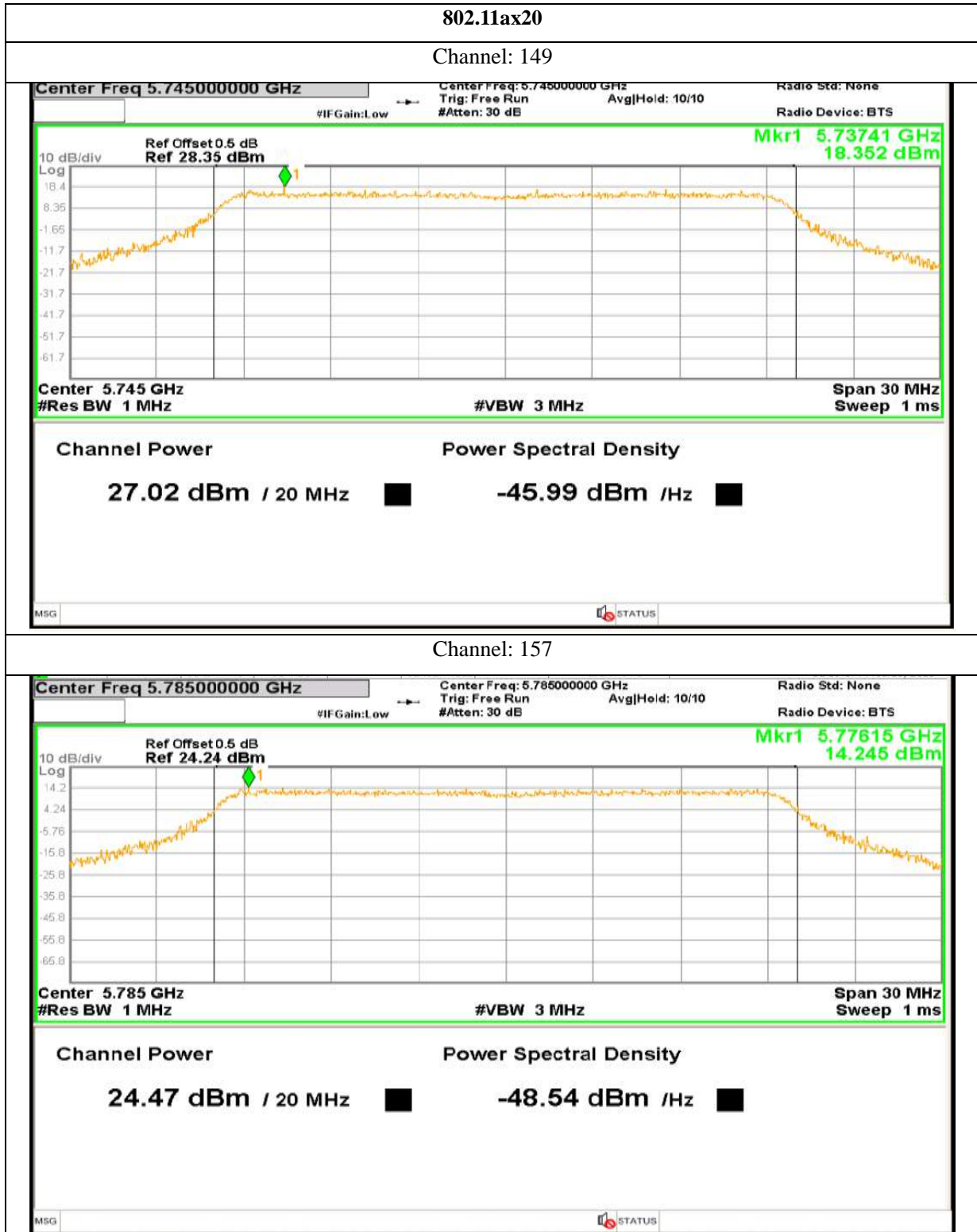


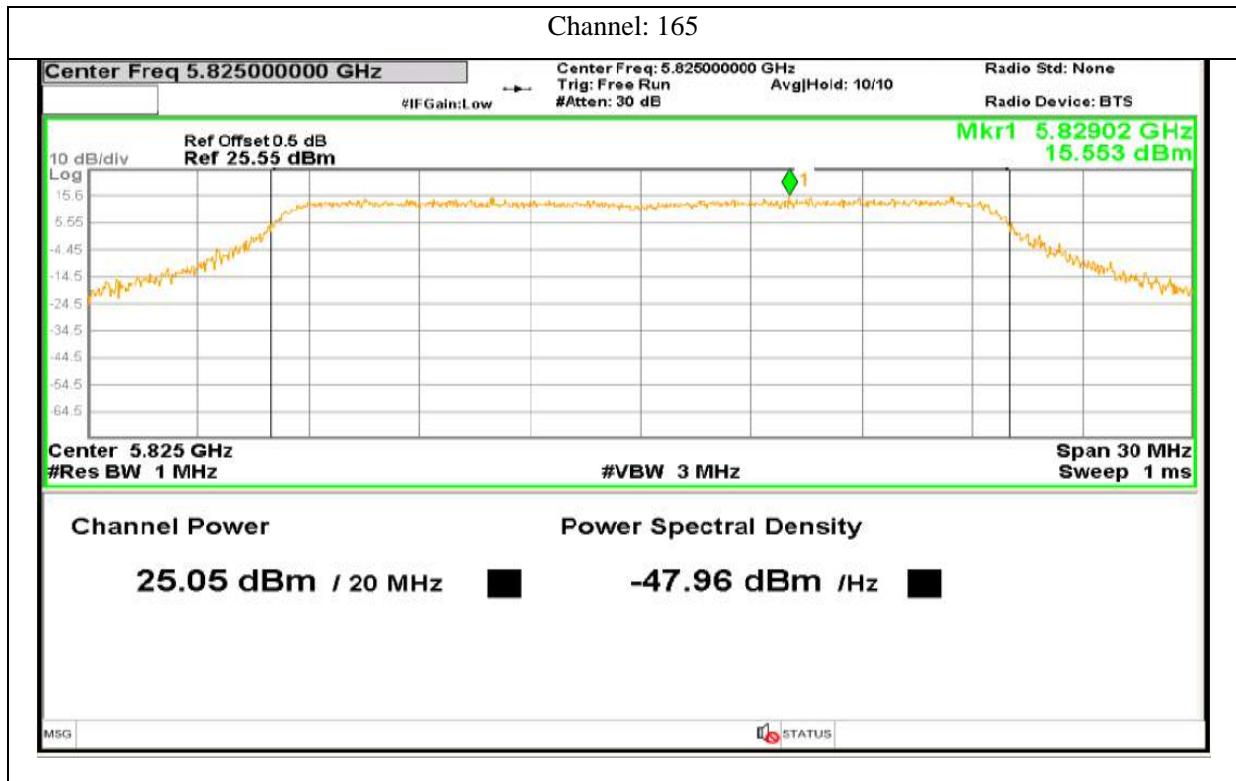


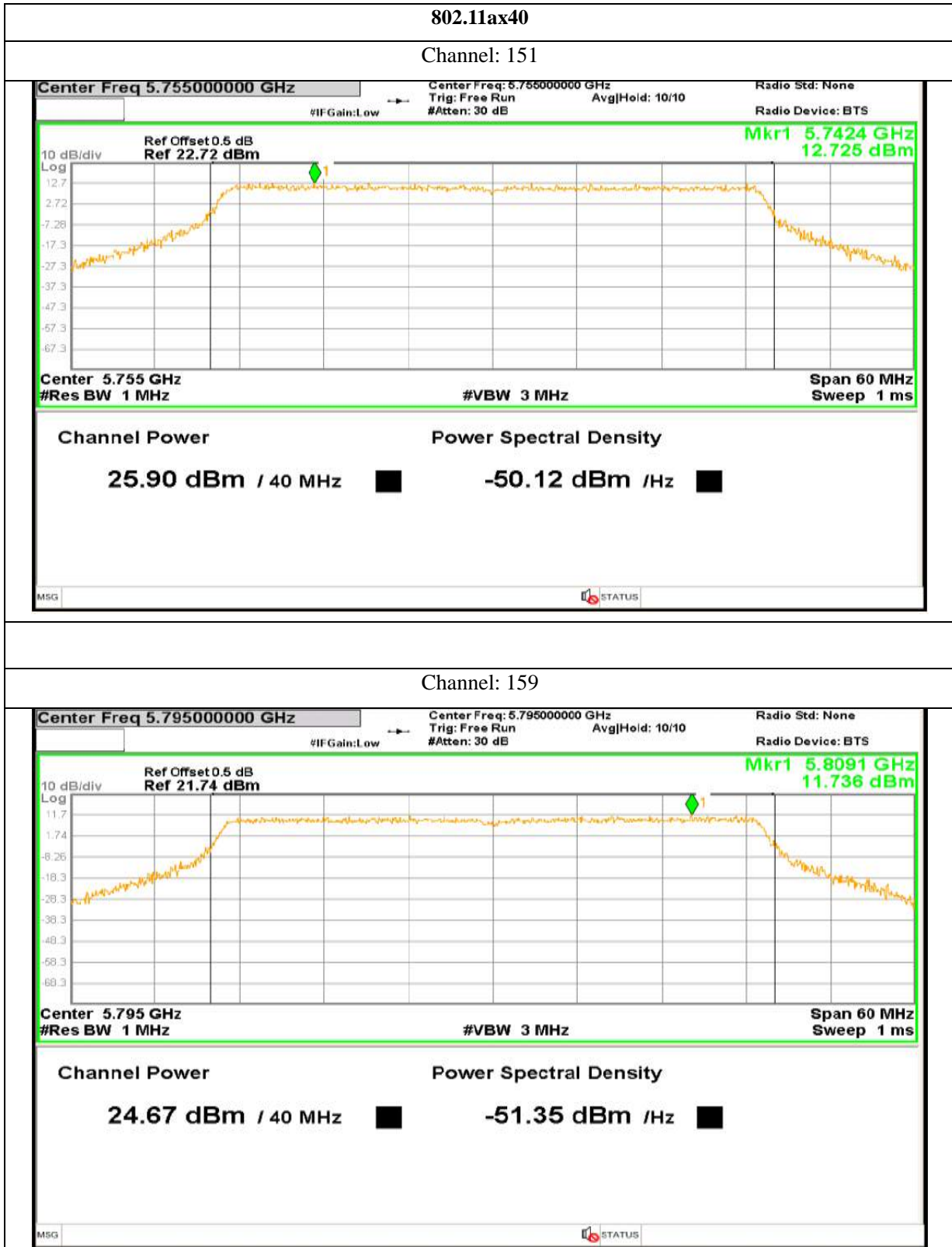


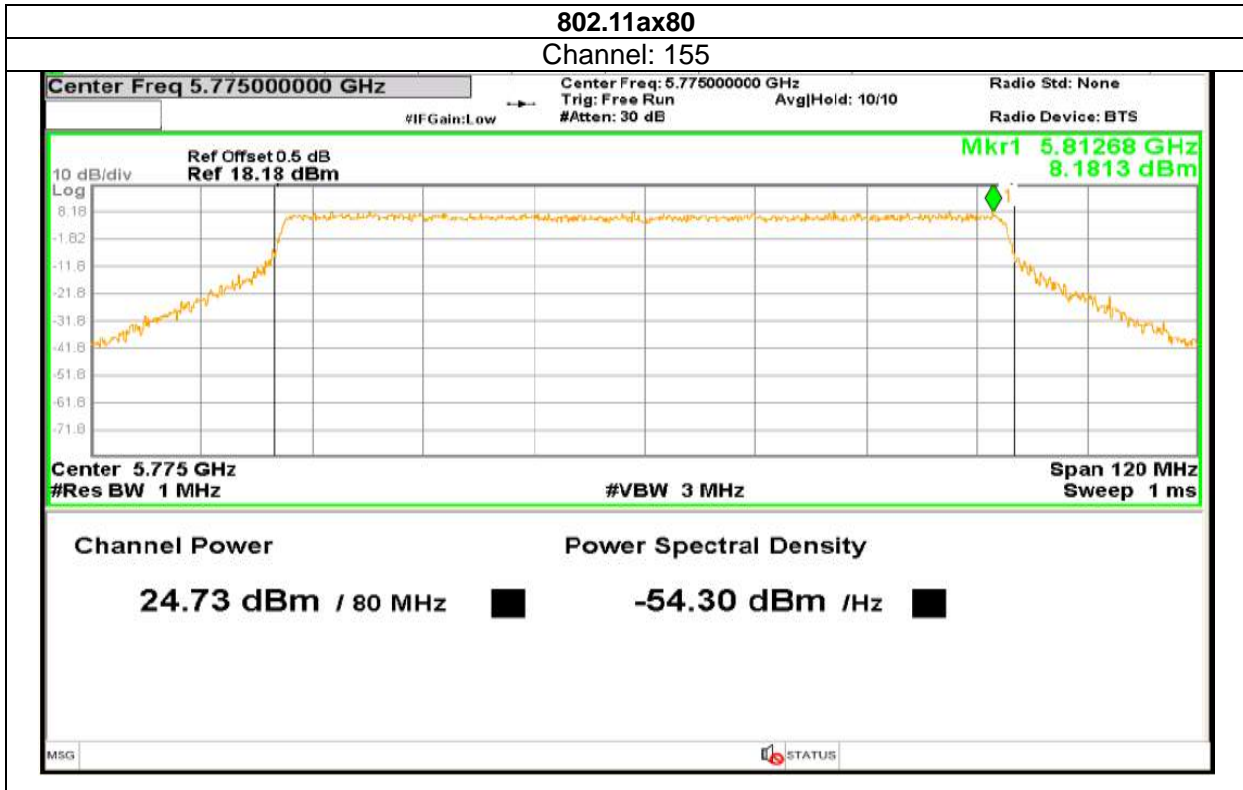






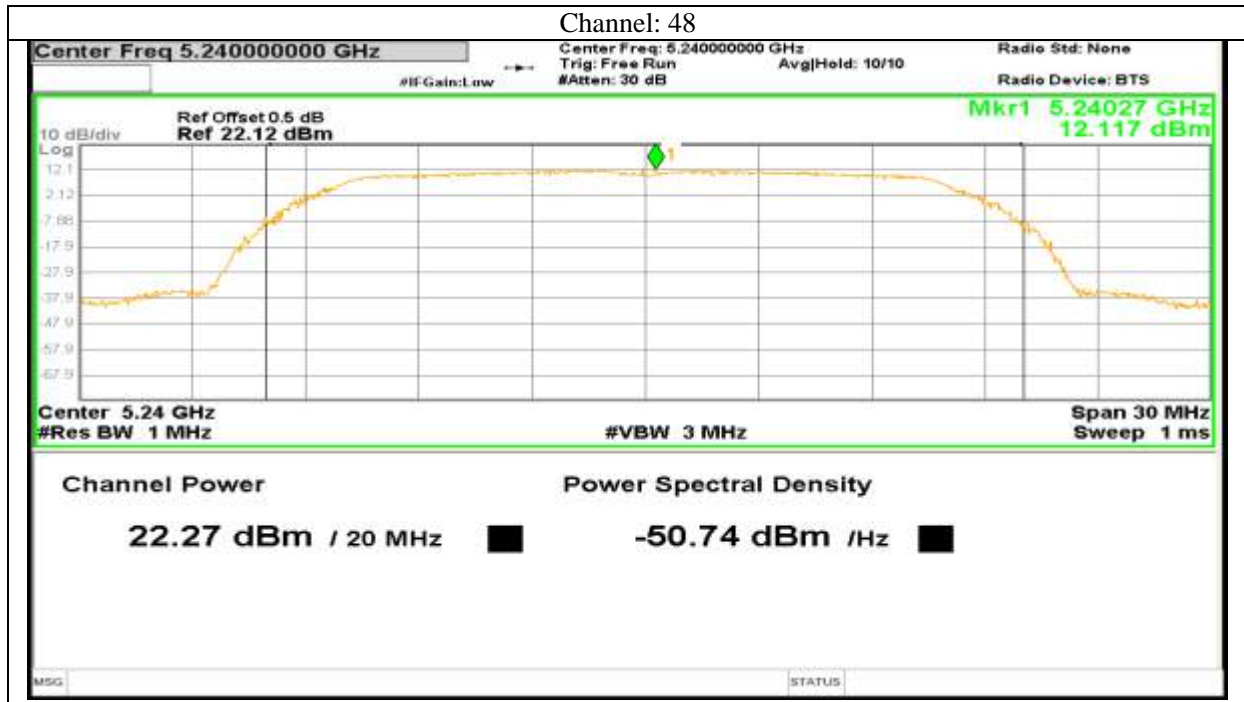


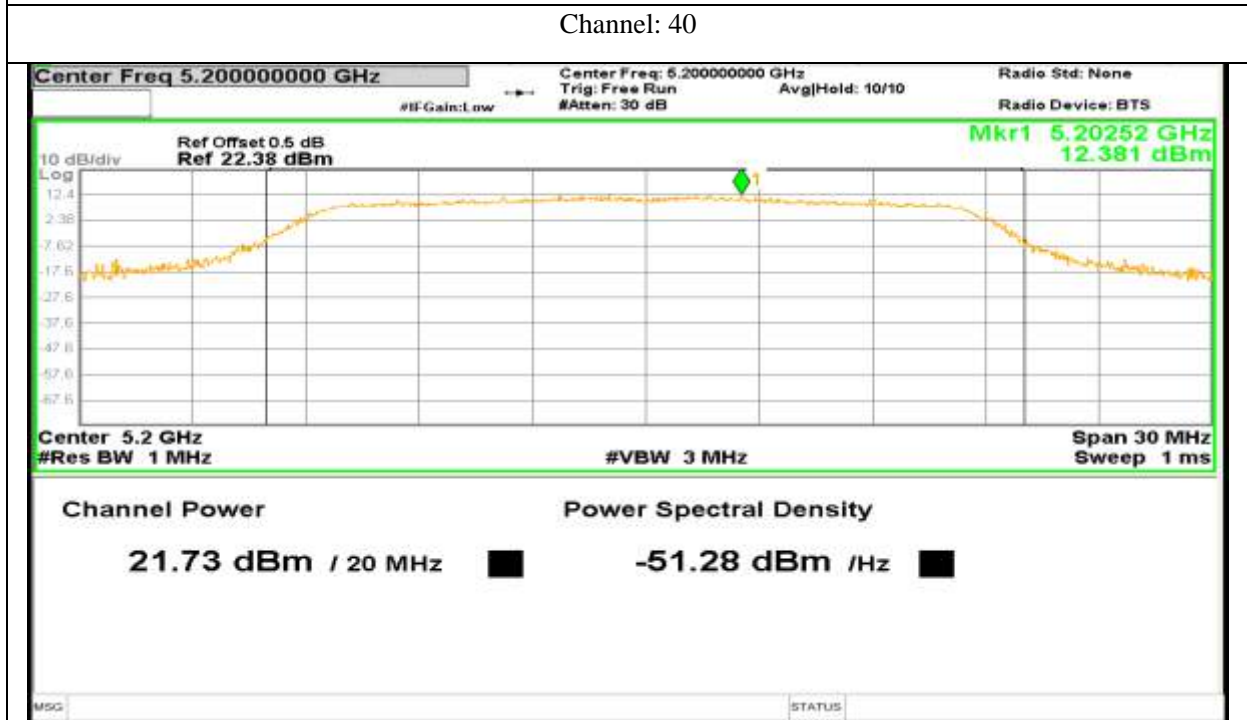
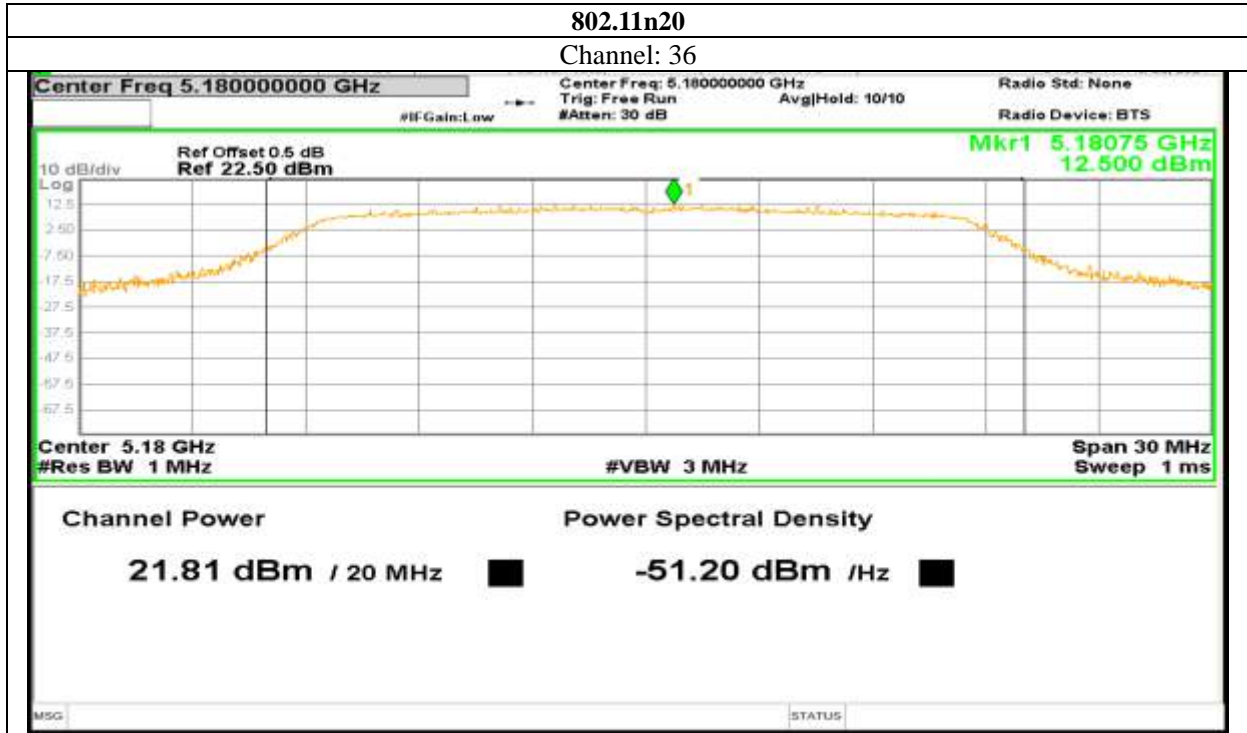


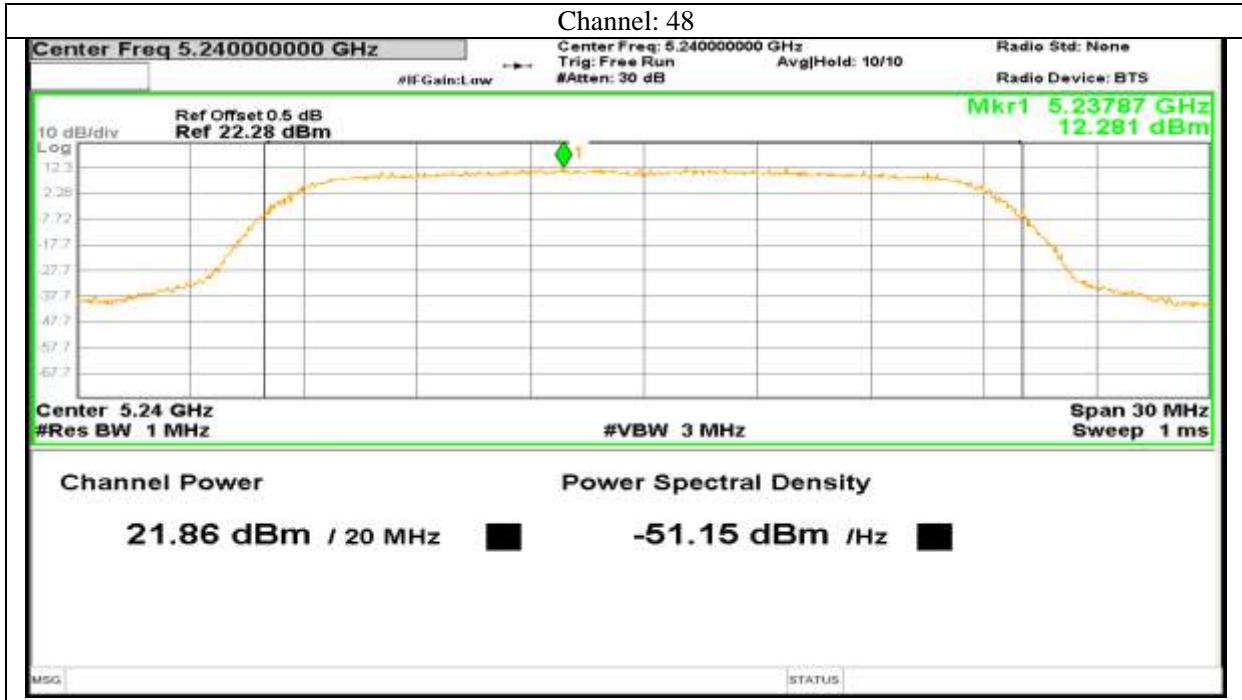


**Antenna 1:**

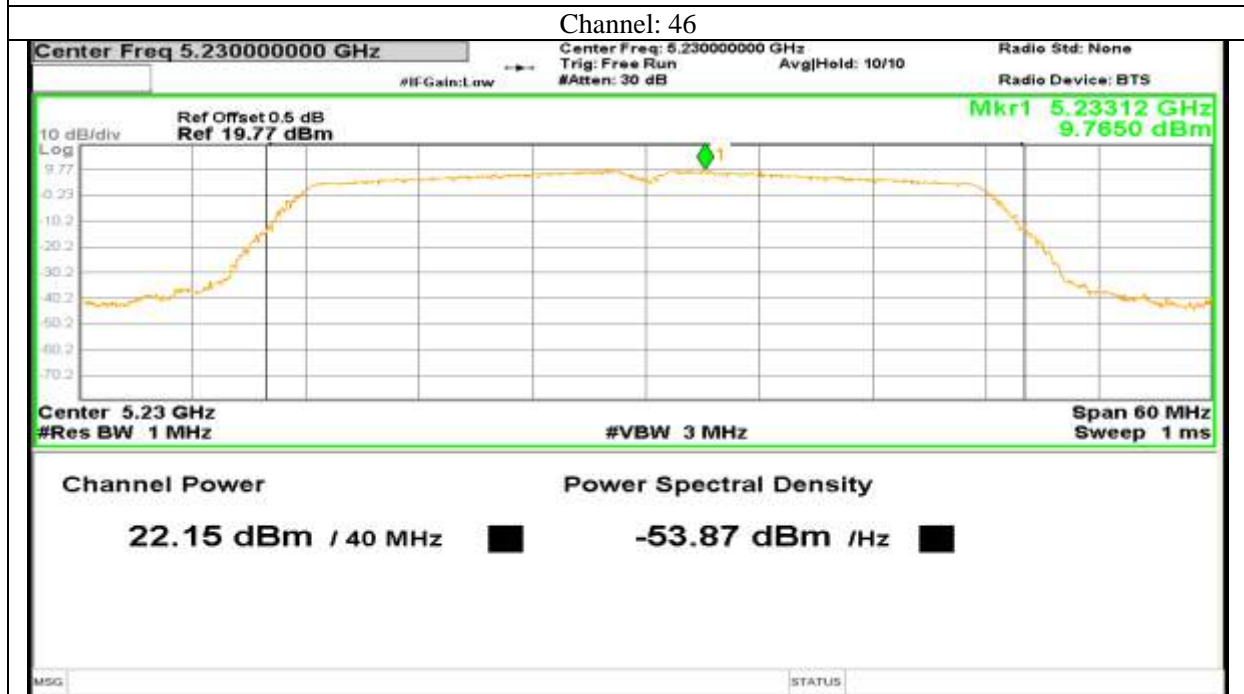


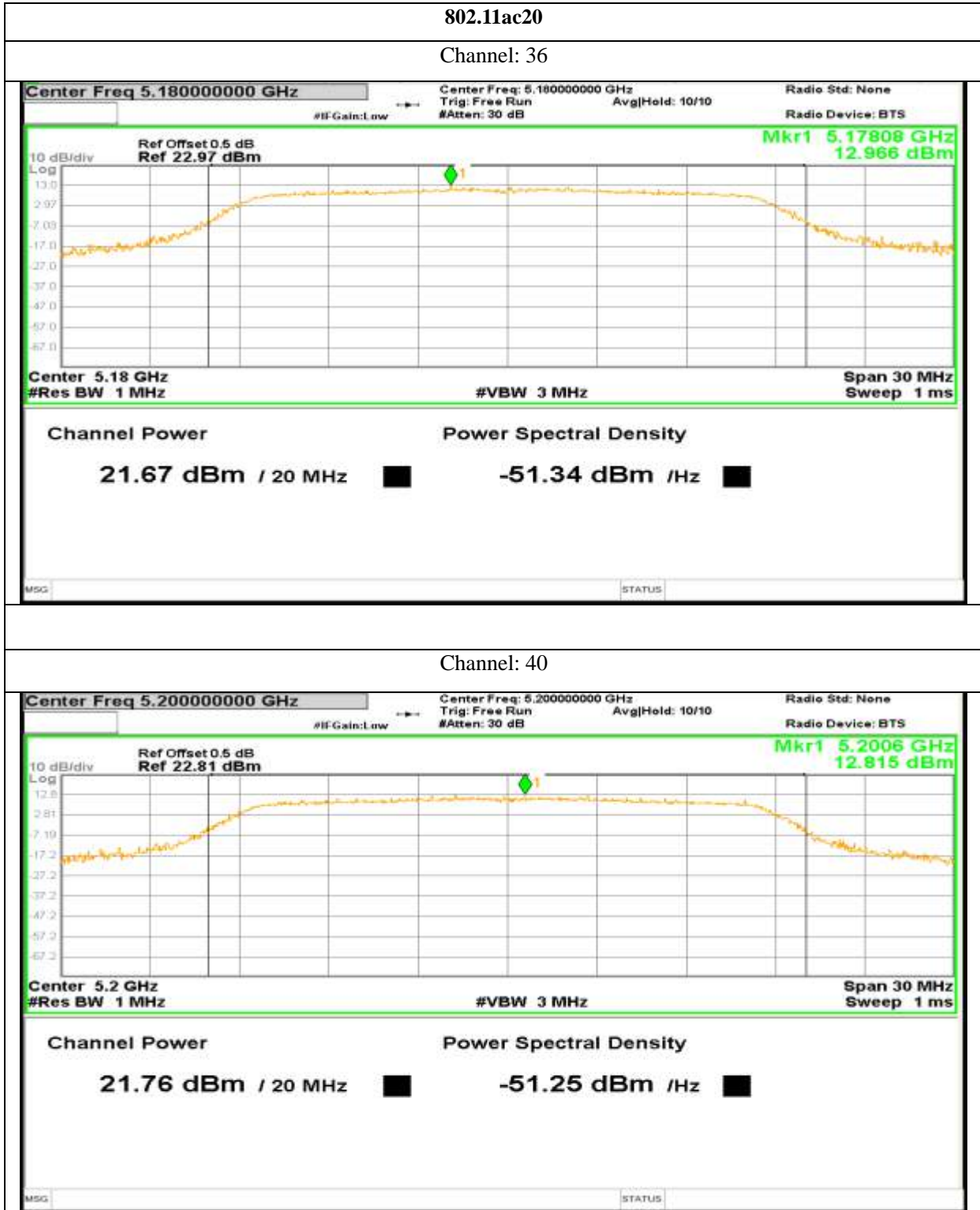


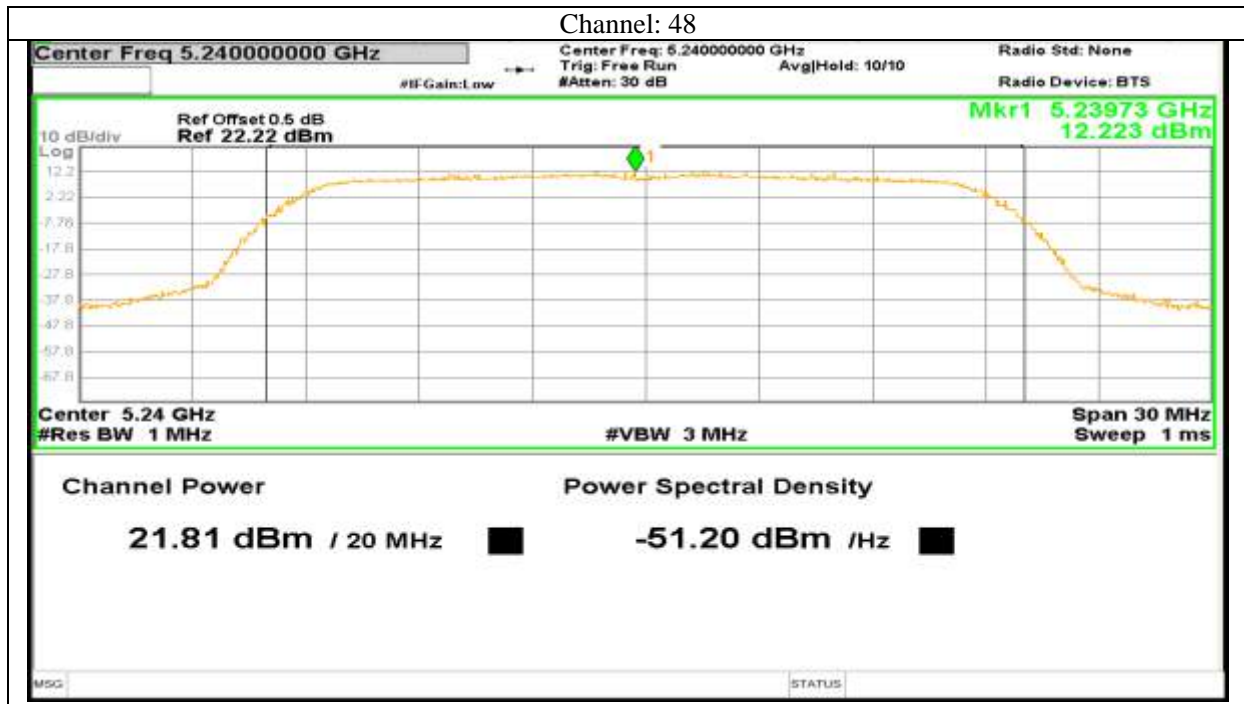


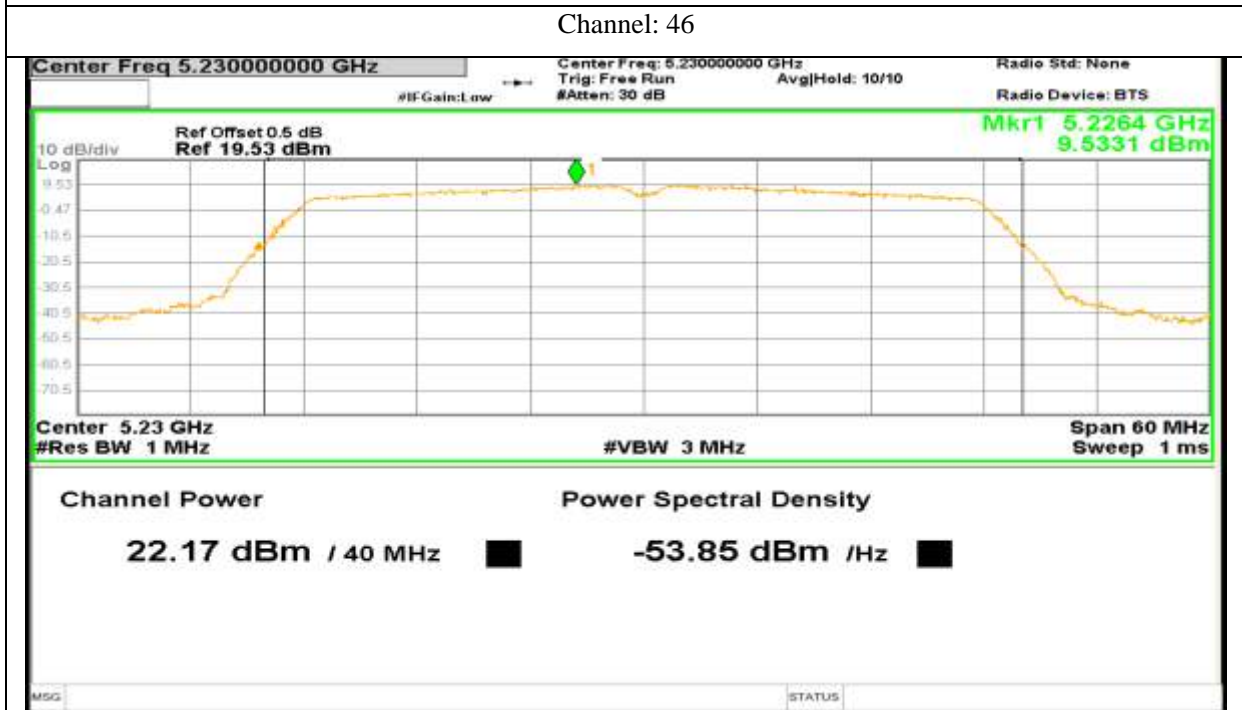
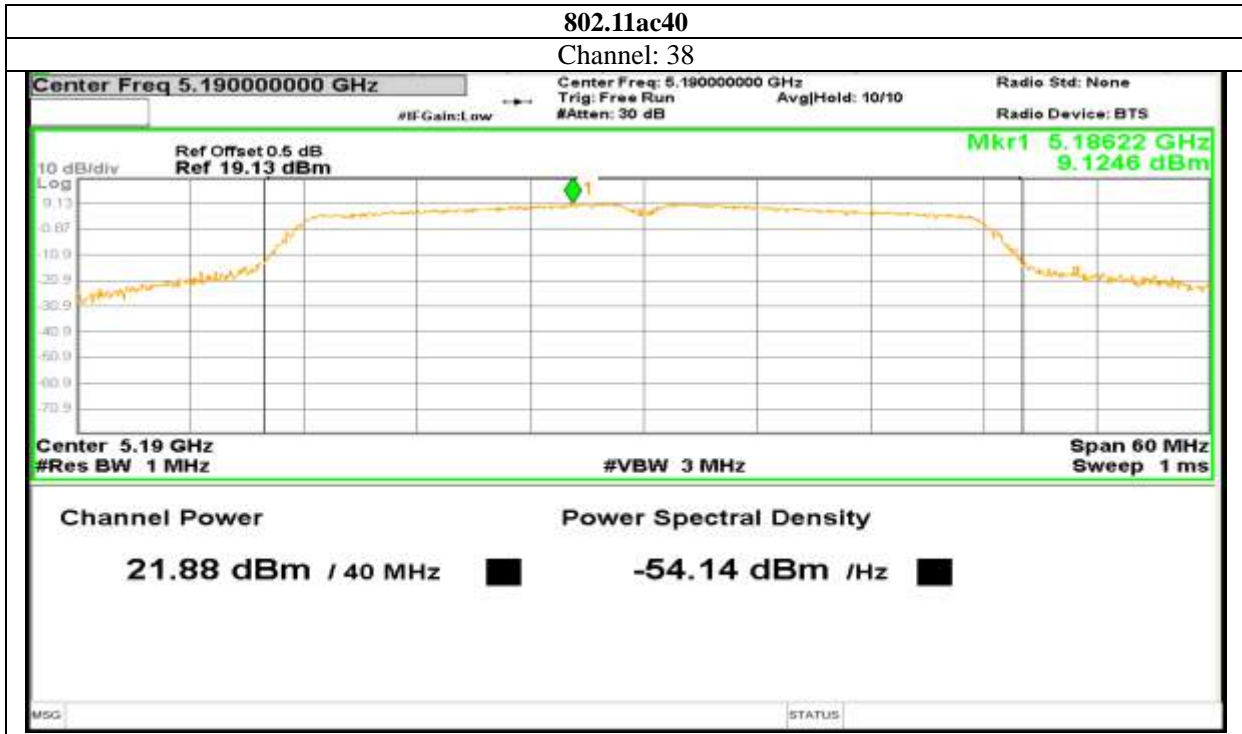


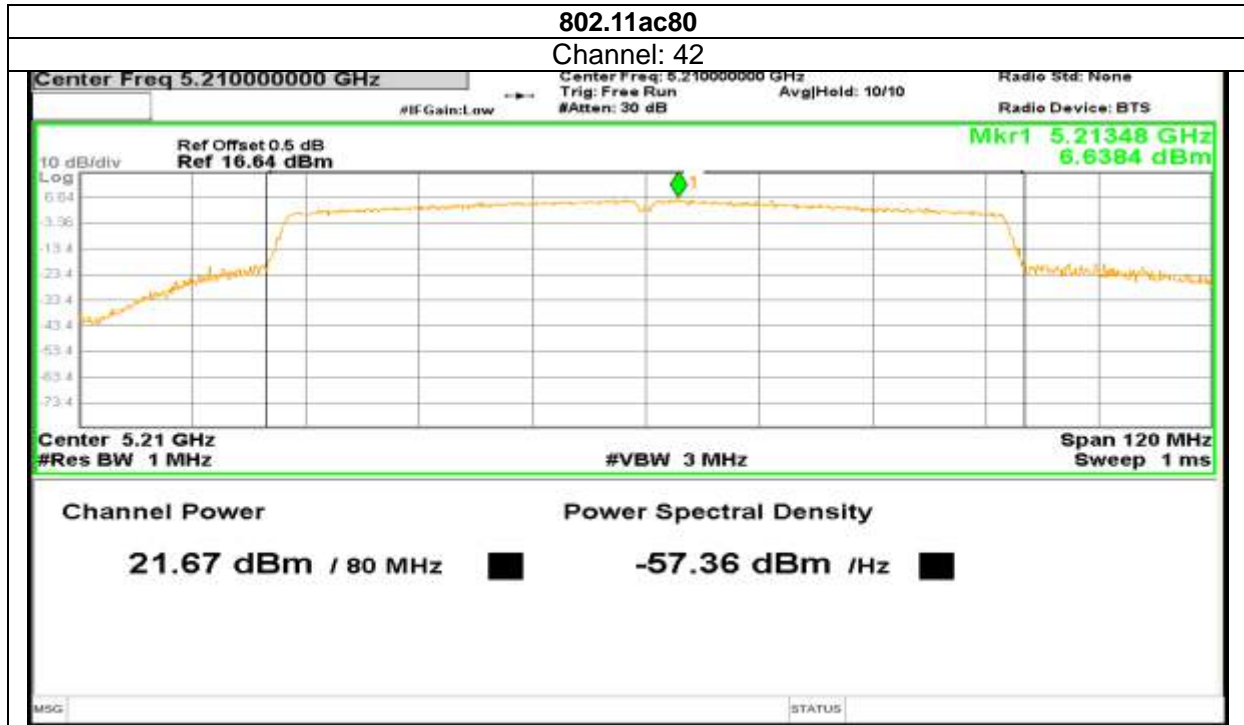


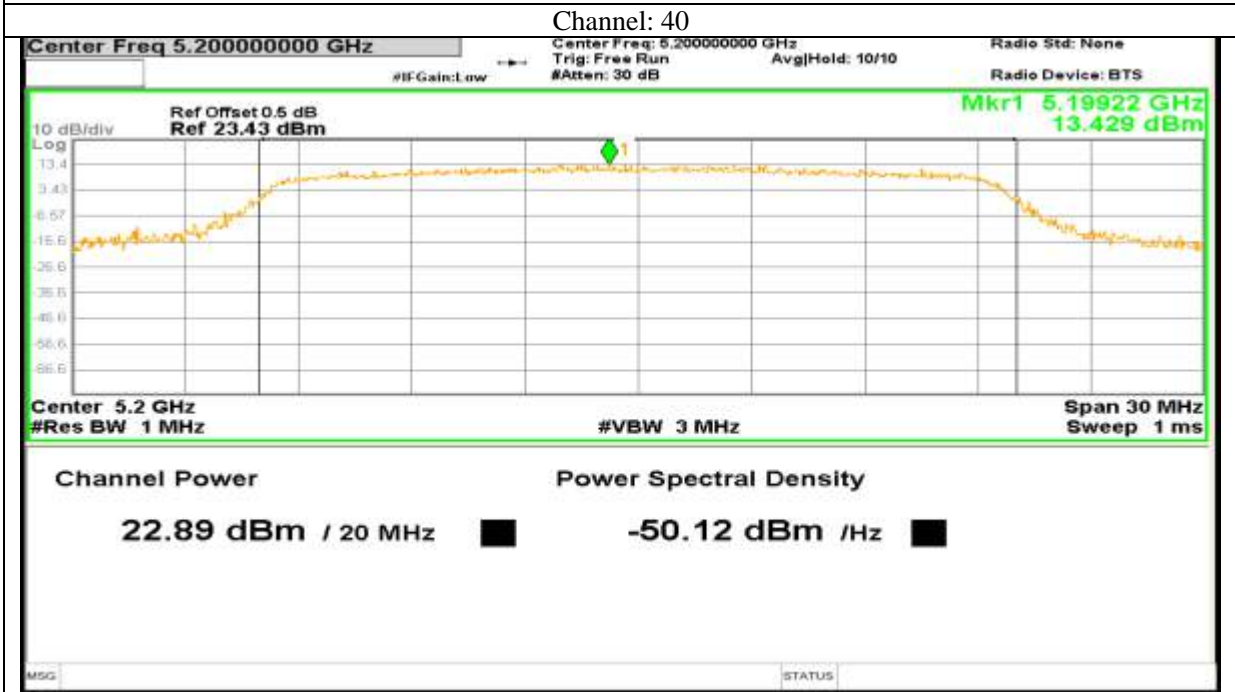
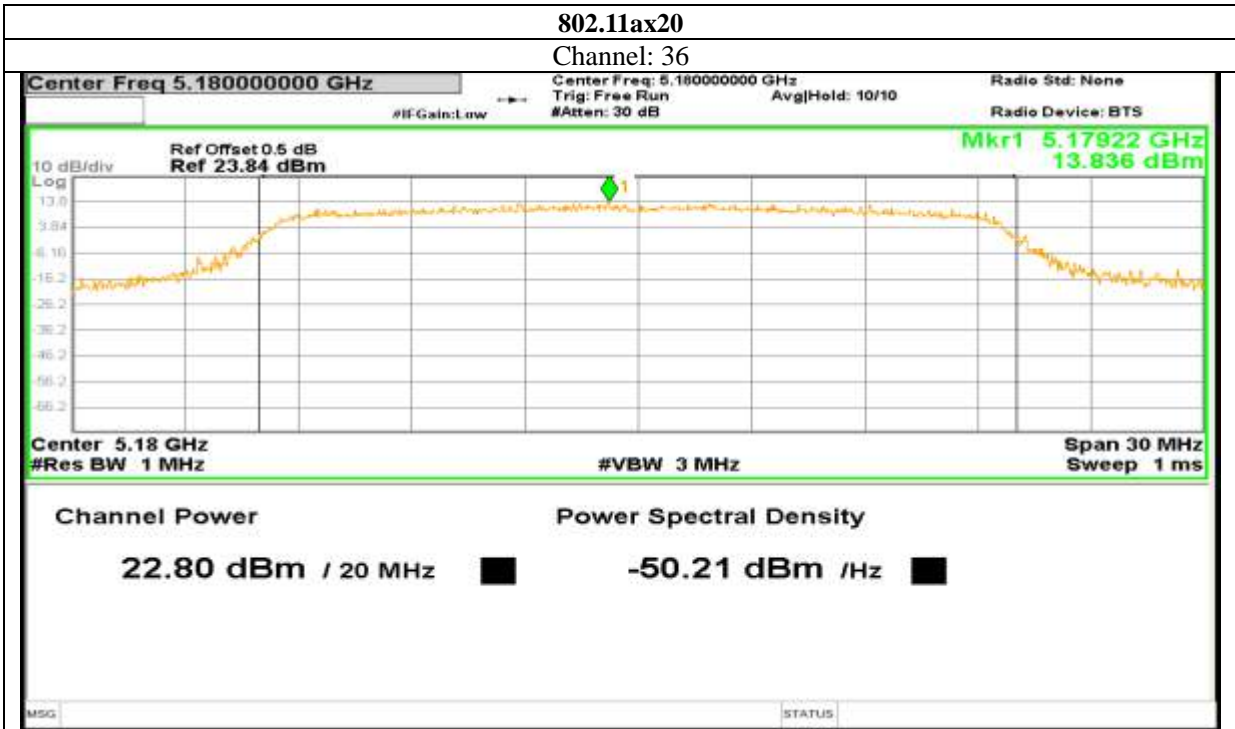


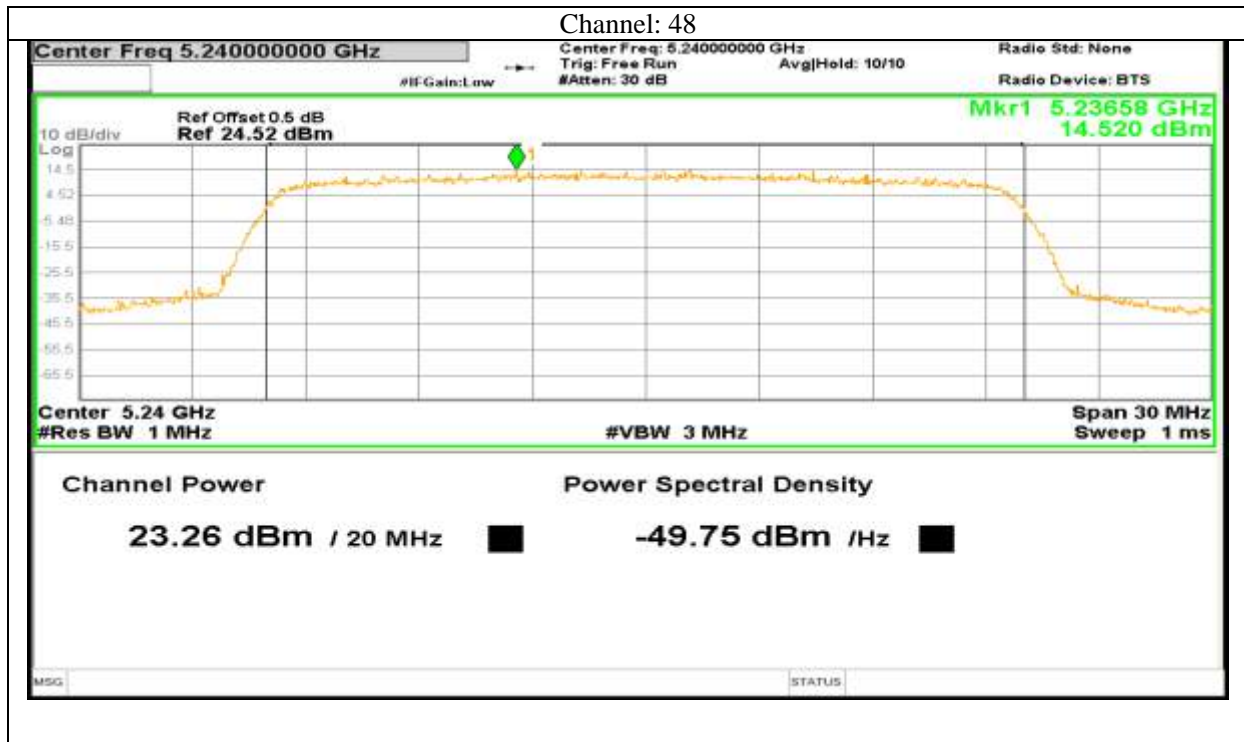


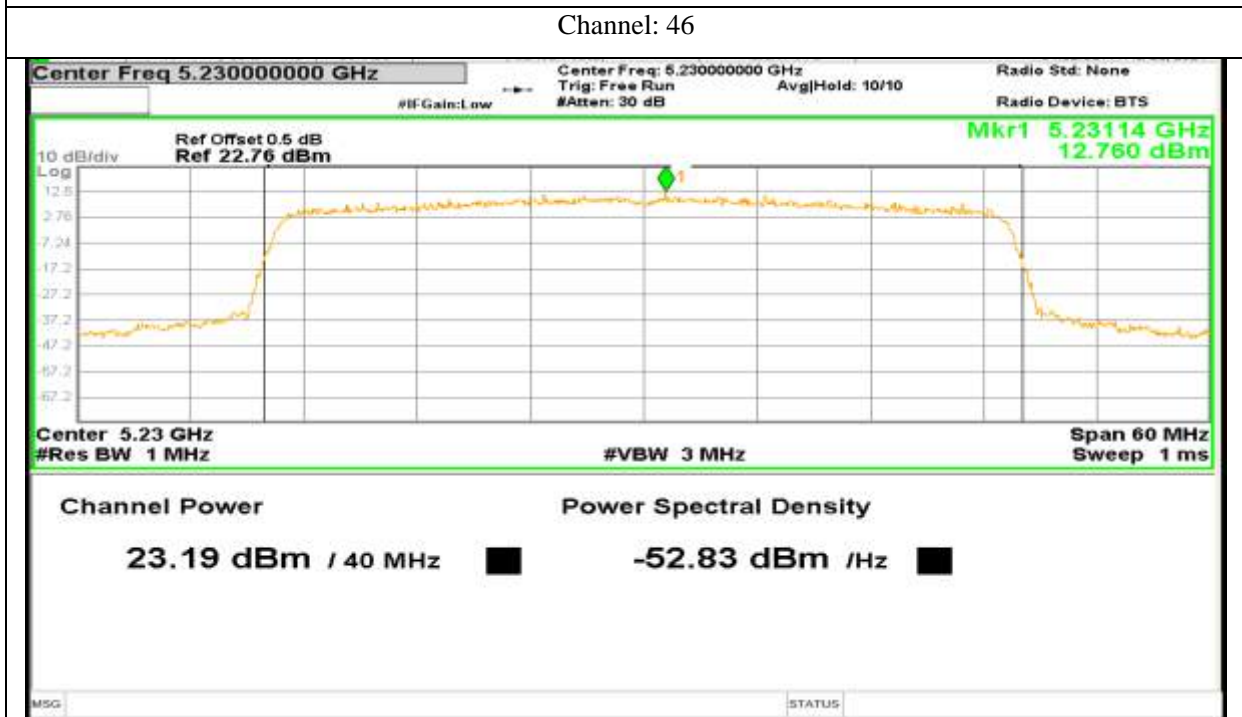
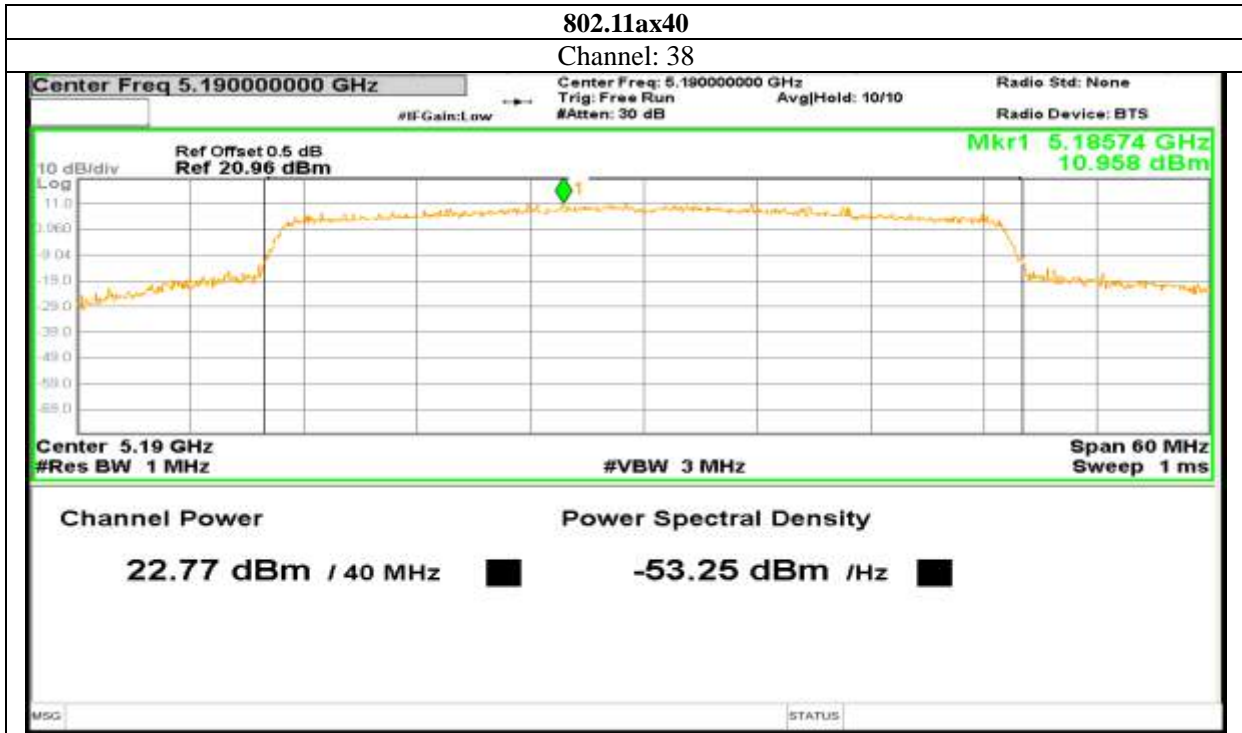




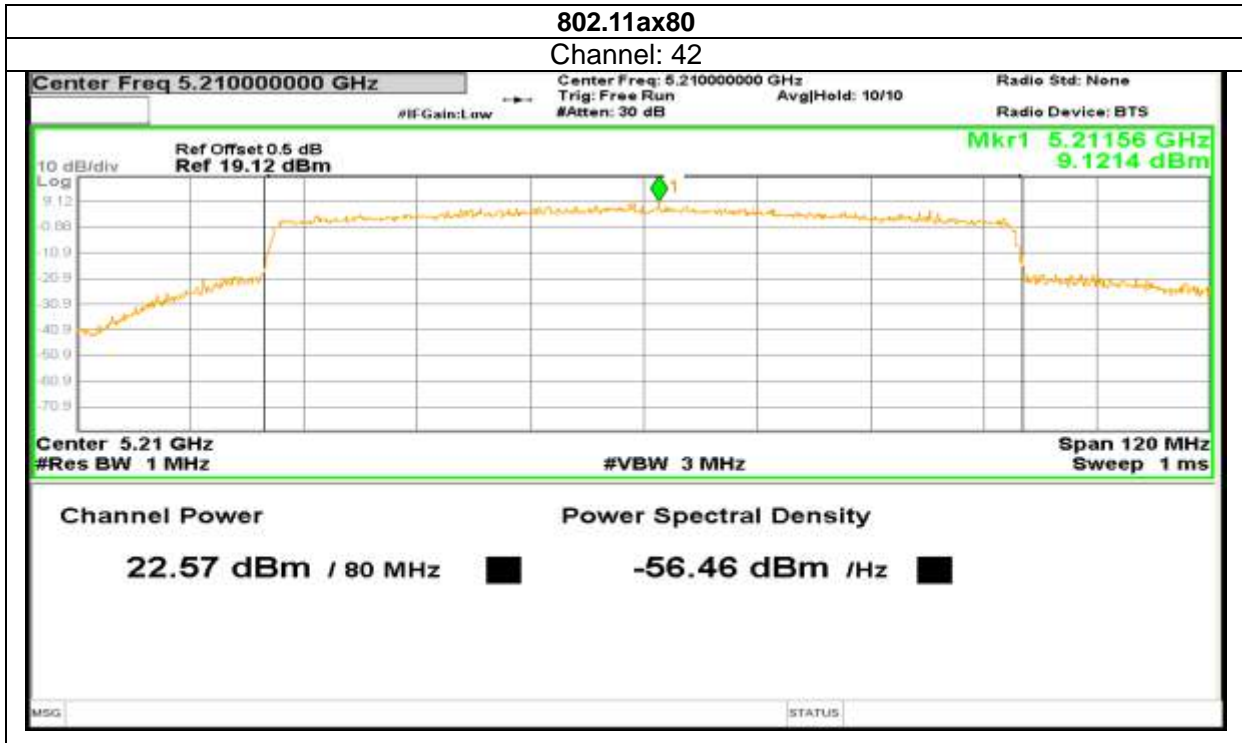


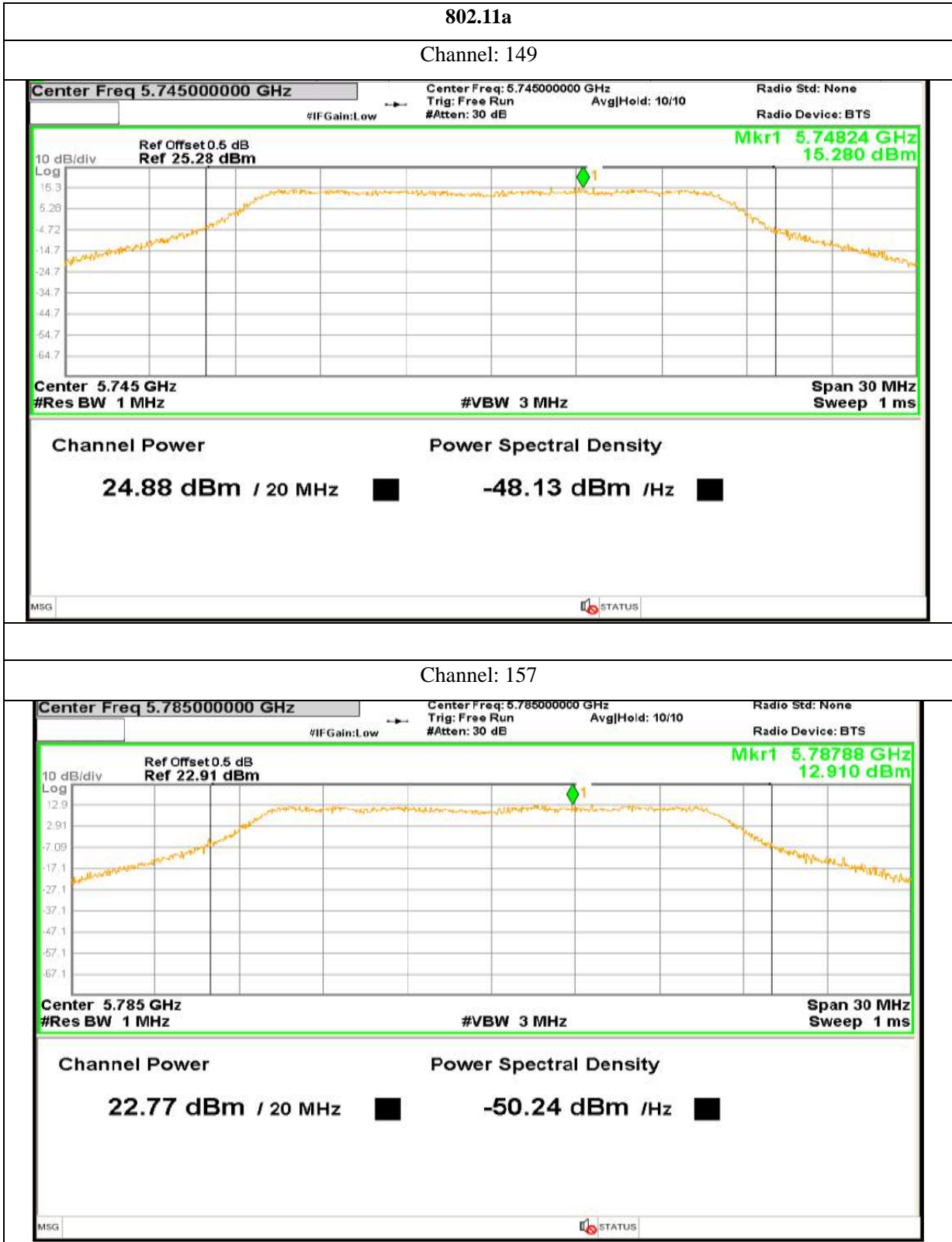


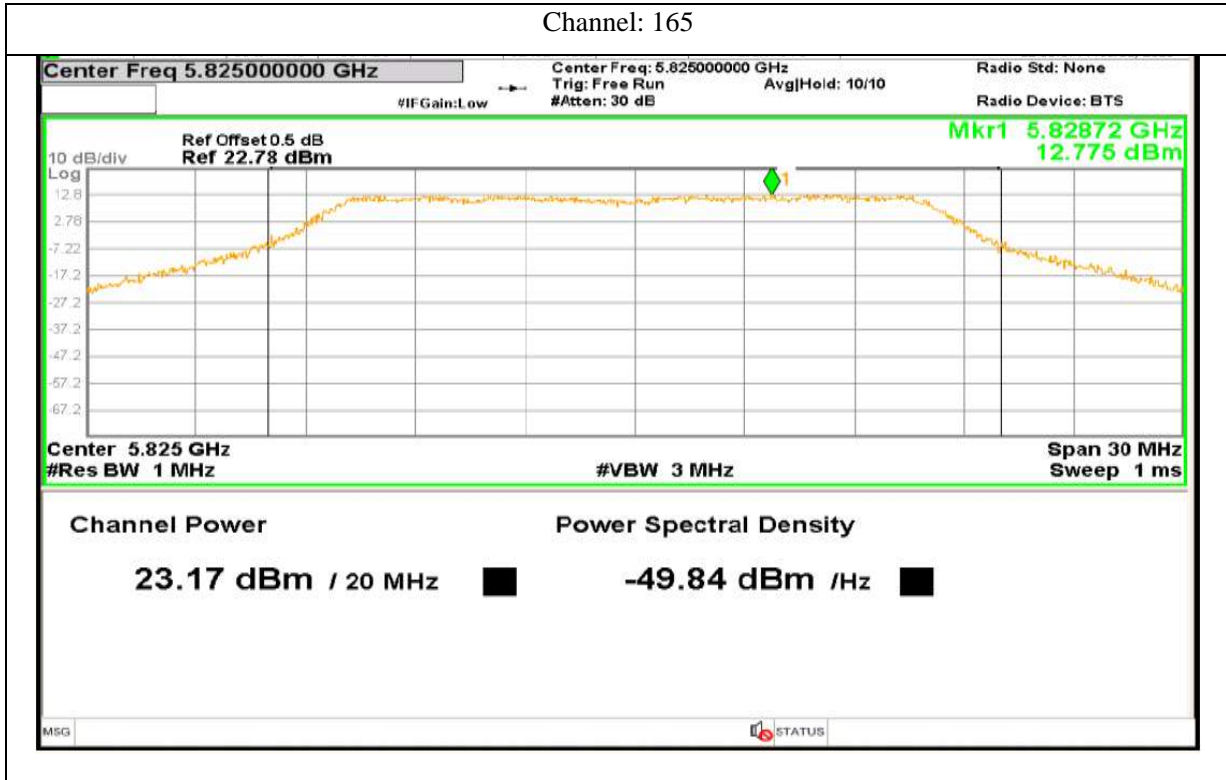




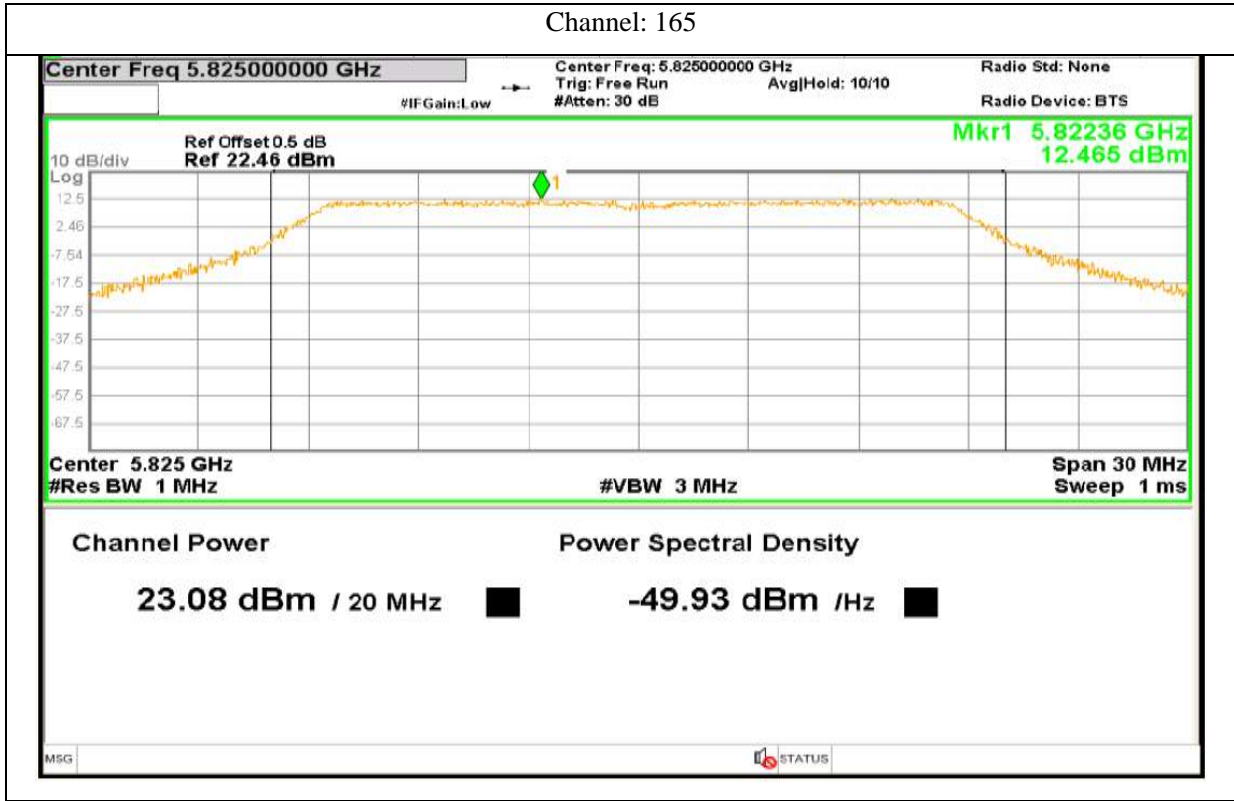


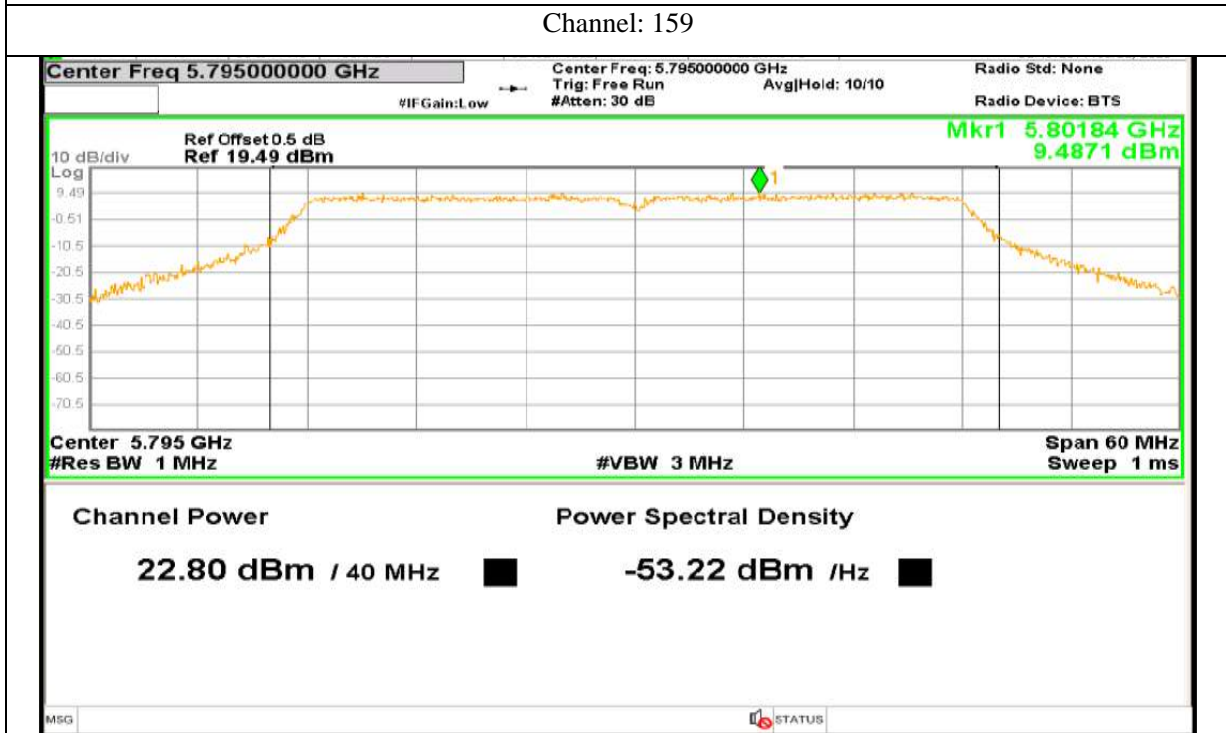
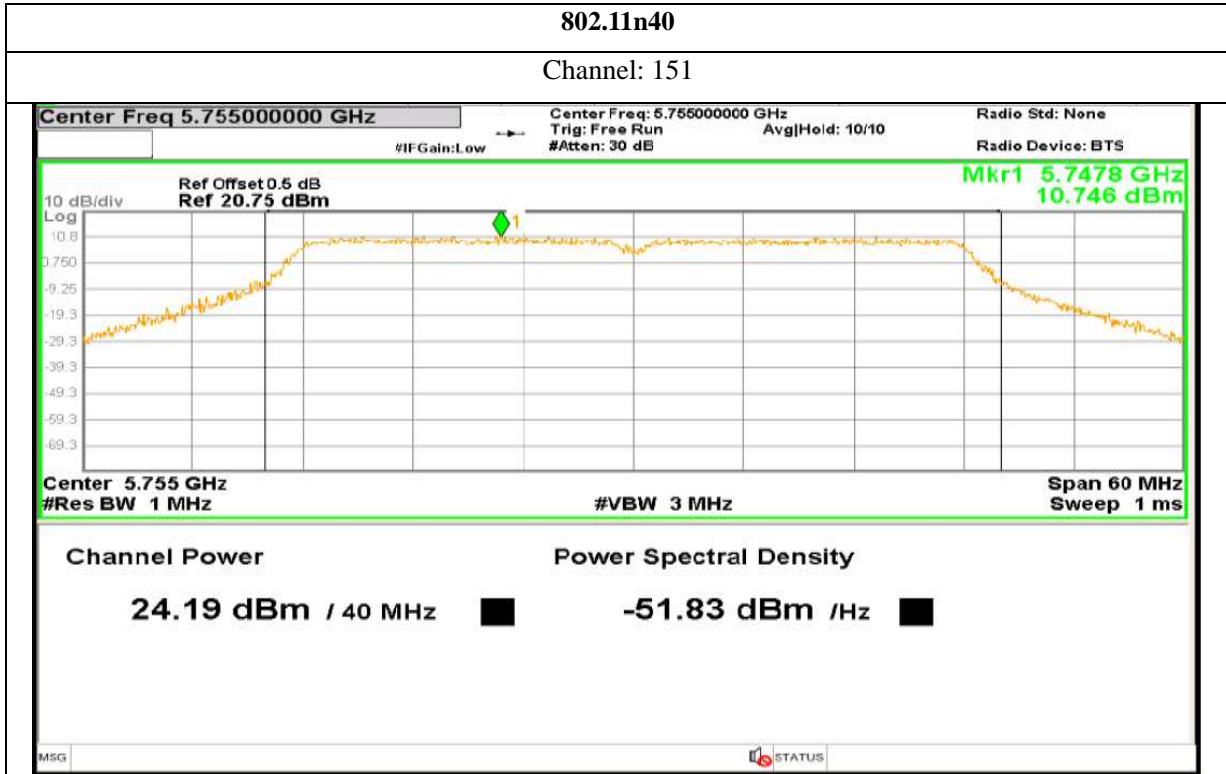


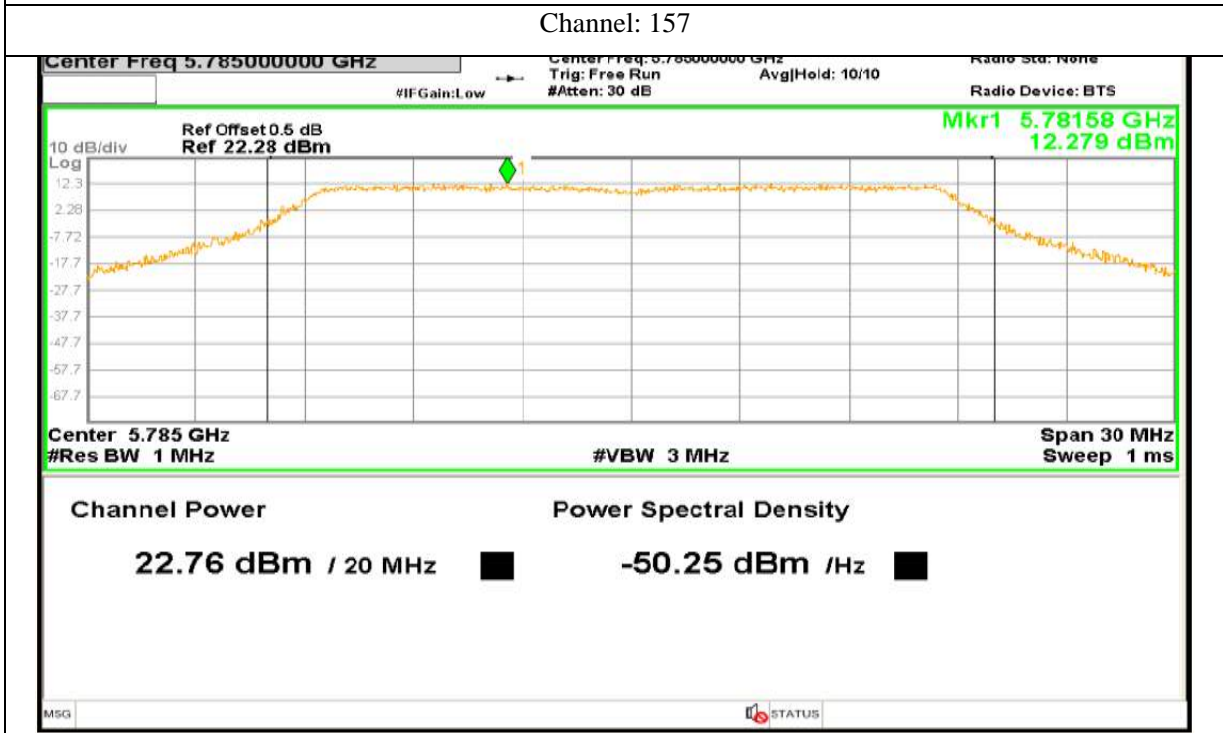
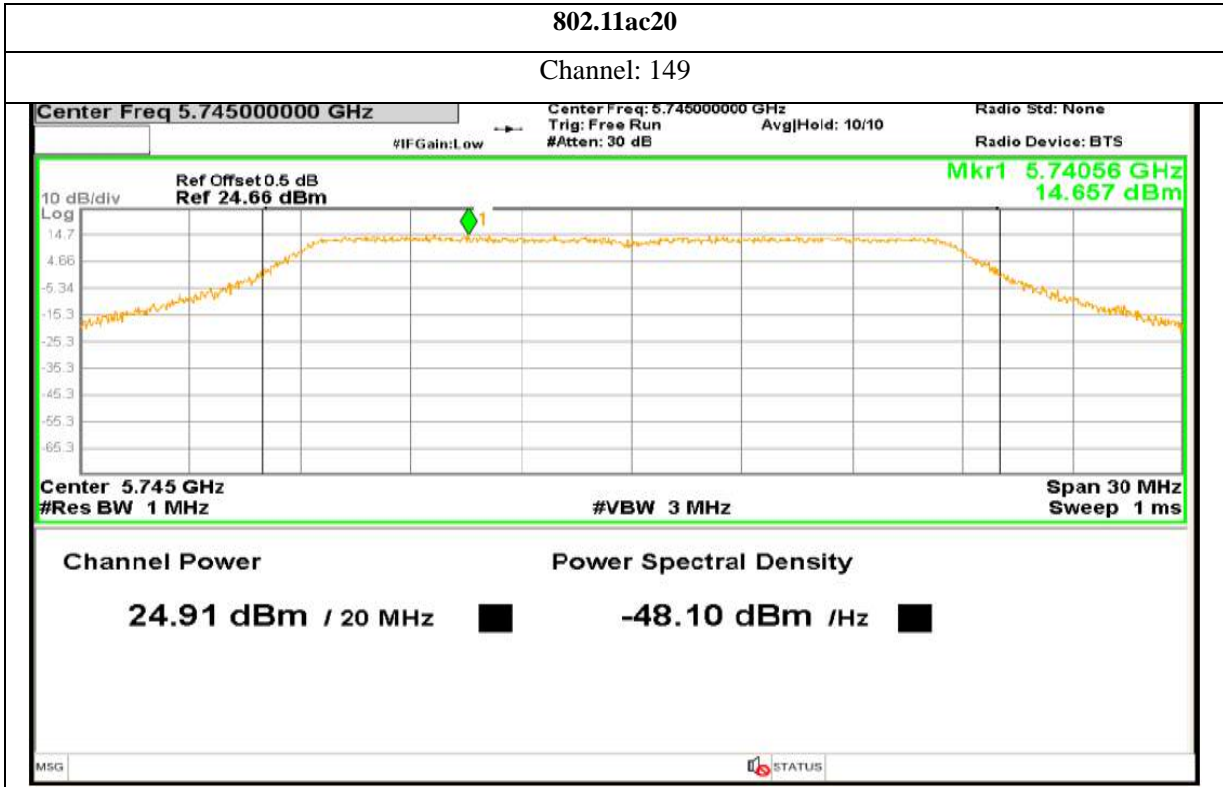


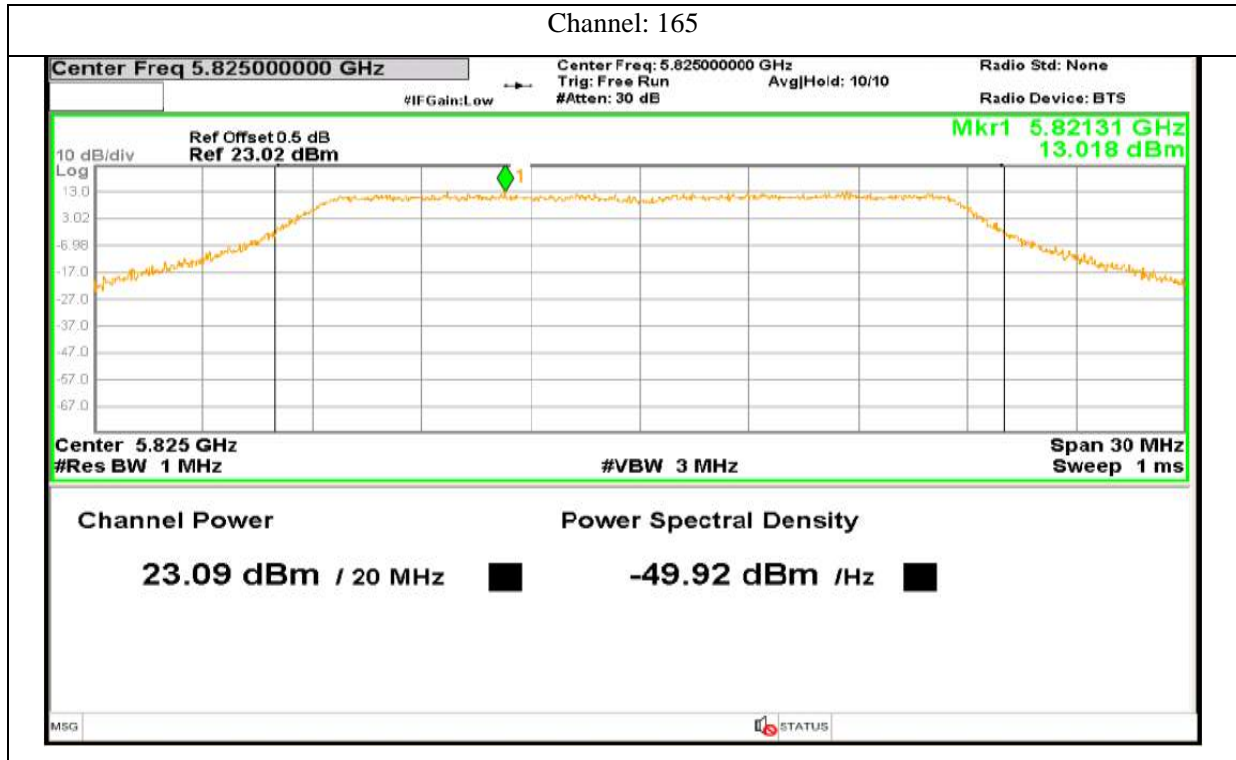






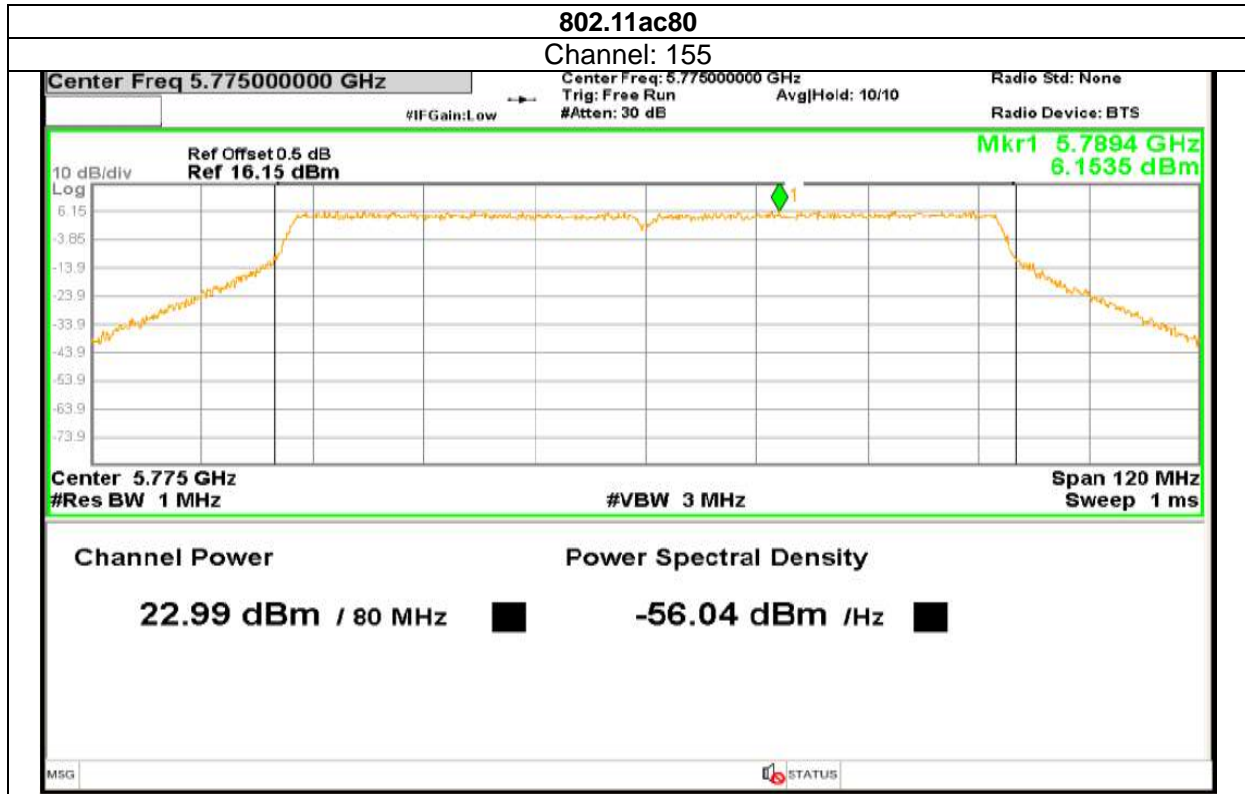




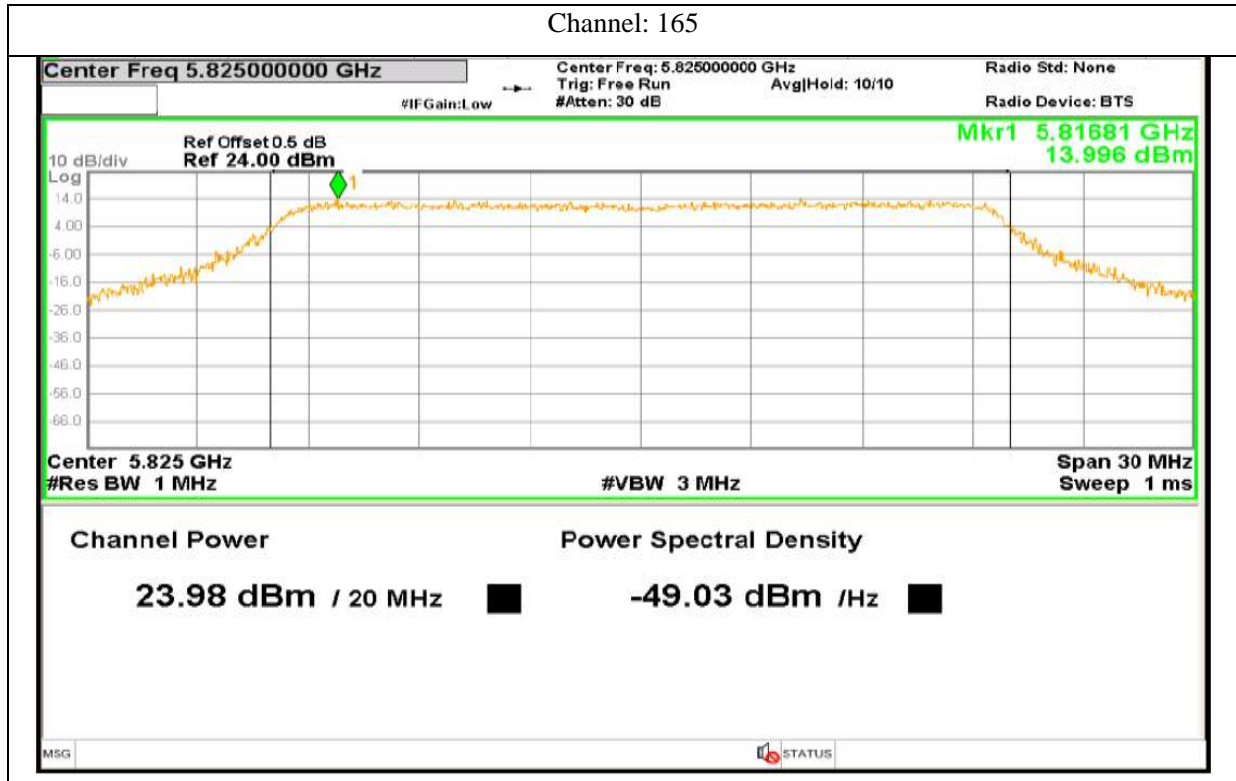


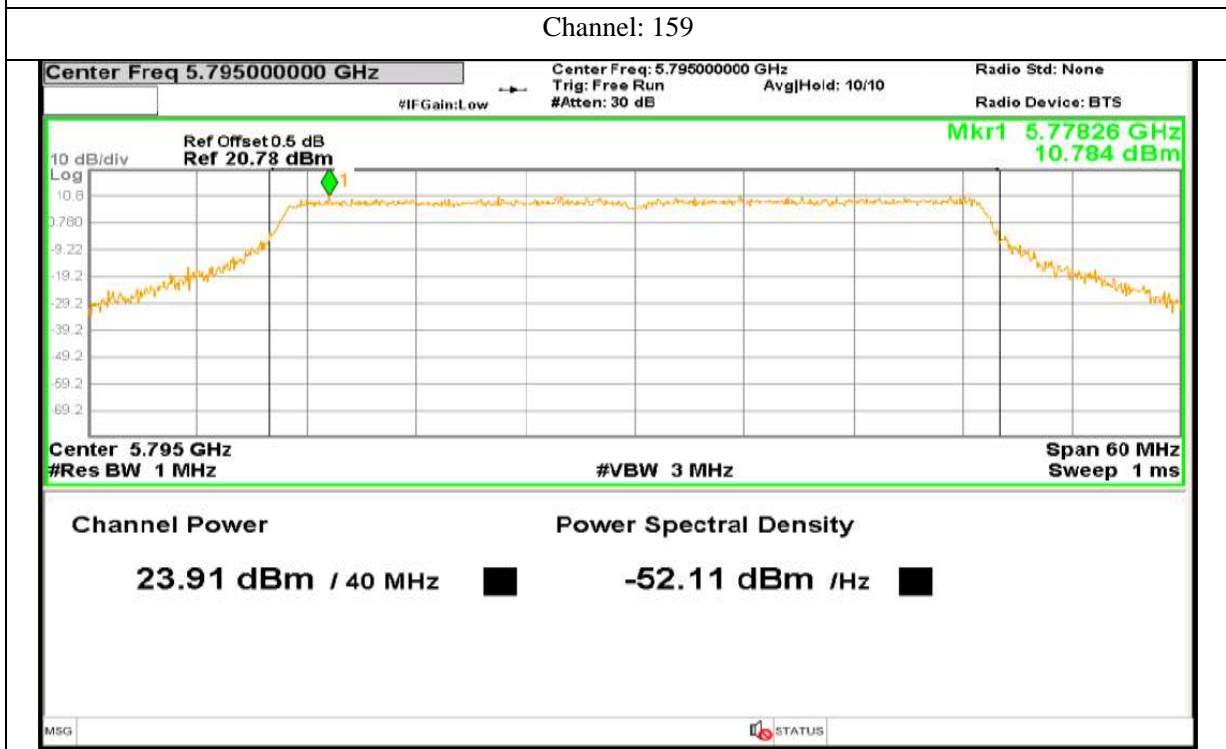
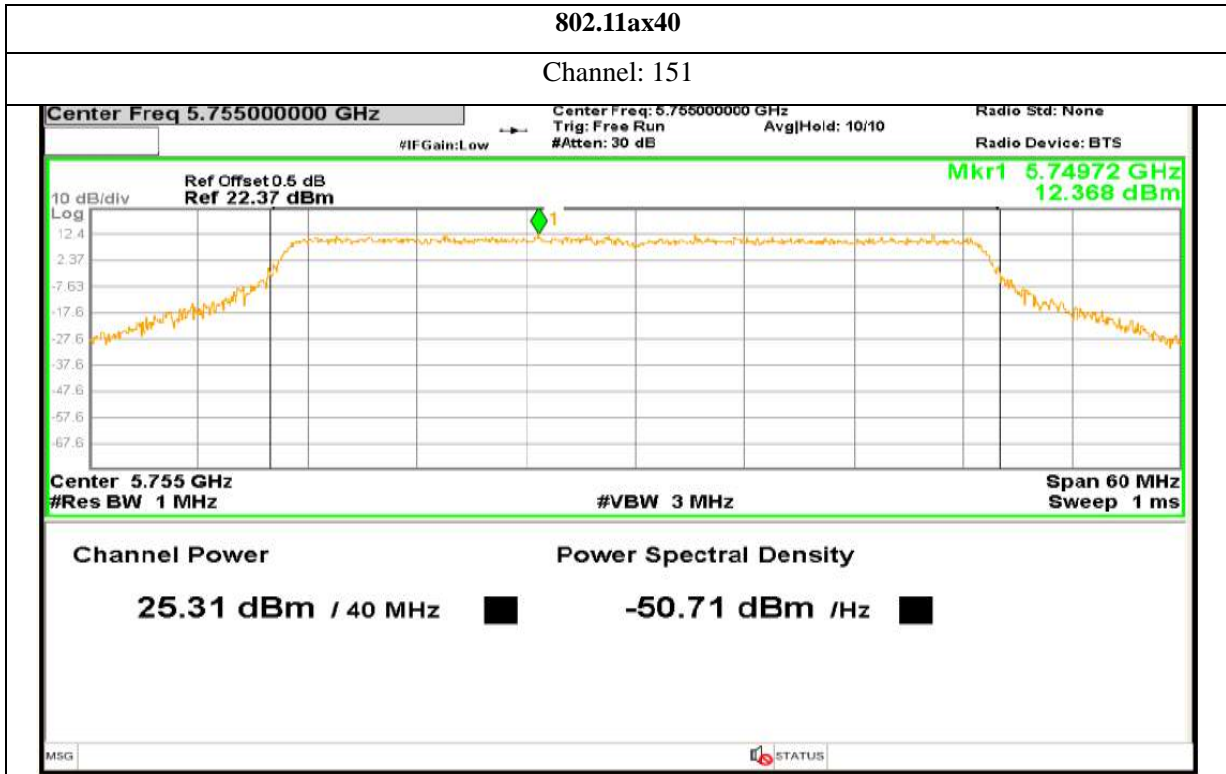


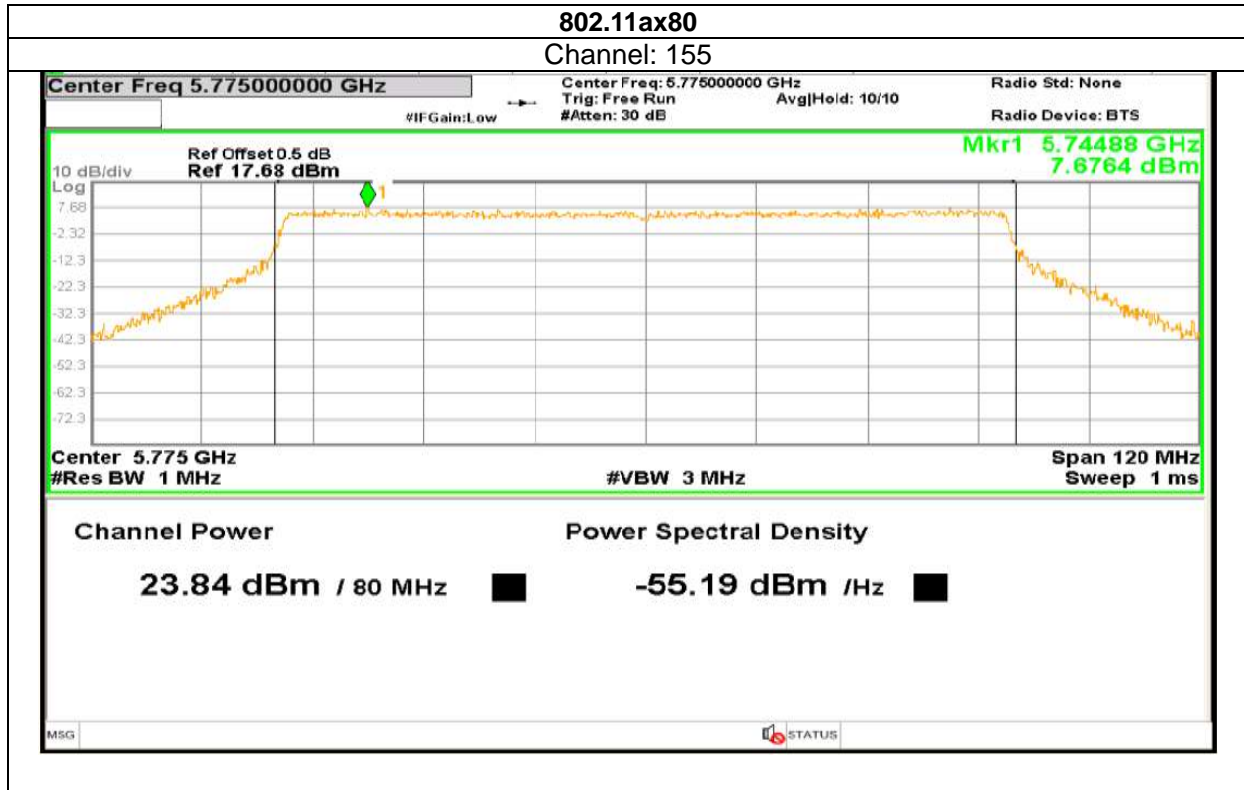












**Antenna 2:**

