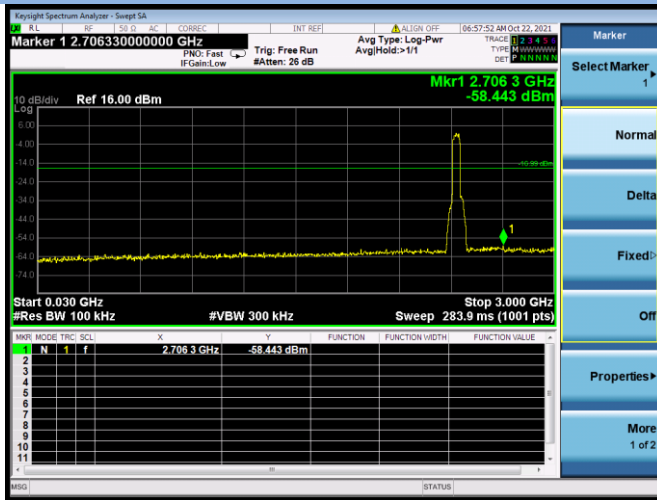
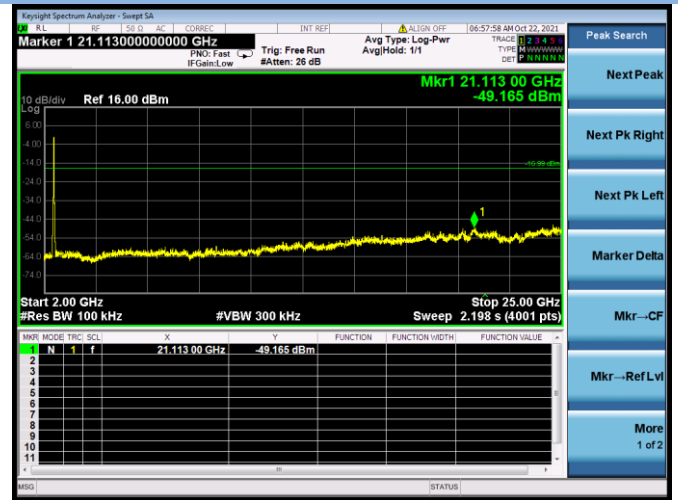


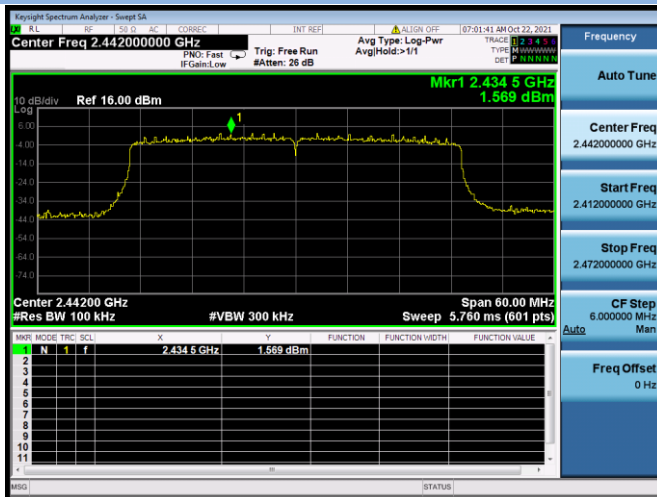
802.11ax-40 CHANNEL 6, SPURIOUS
30 MHz ~ 3 GHz



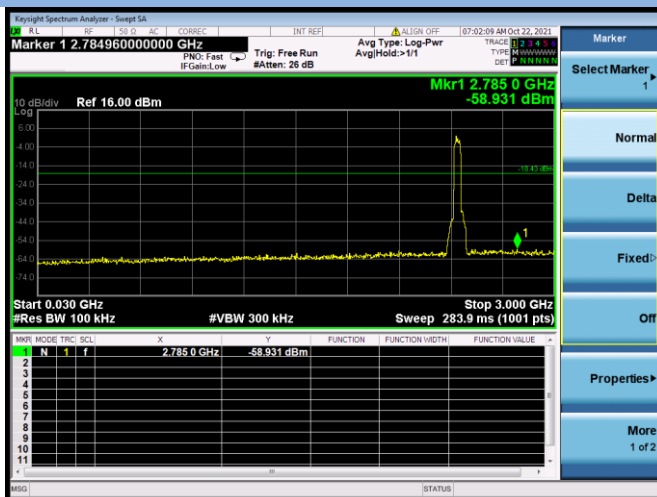
802.11ax-40 CHANNEL 6, SPURIOUS
2 GHz ~ 25 GHz



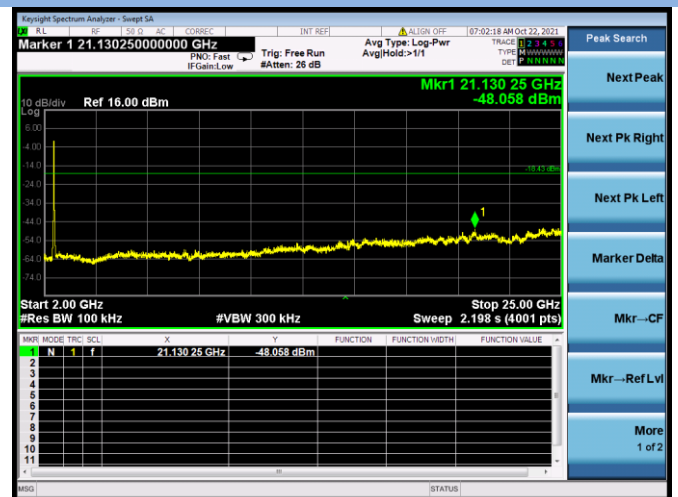
802.11ax-40 CHANNEL 7 CARRIER LEVEL



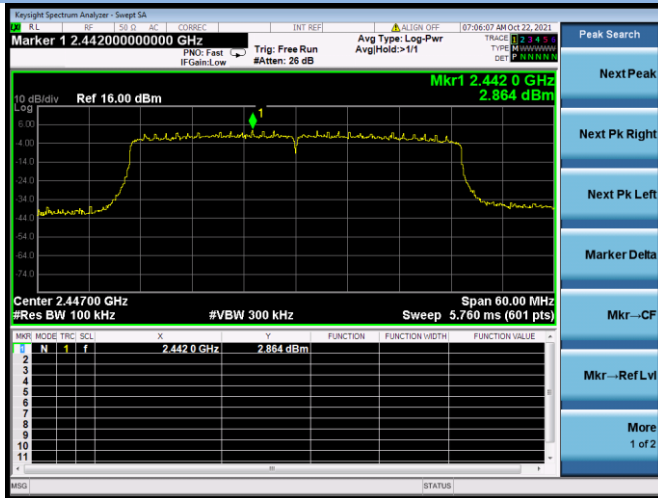
802.11ax-40 CHANNEL 7, SPURIOUS
30 MHz ~ 3 GHz



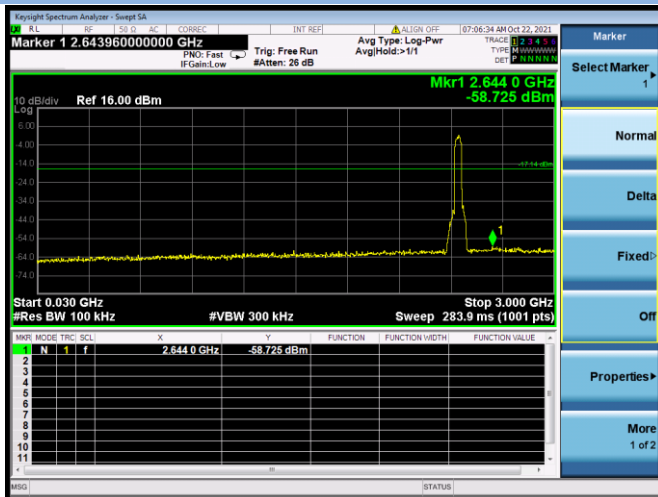
802.11ax-40 CHANNEL 7, SPURIOUS
2 GHz ~ 25 GHz



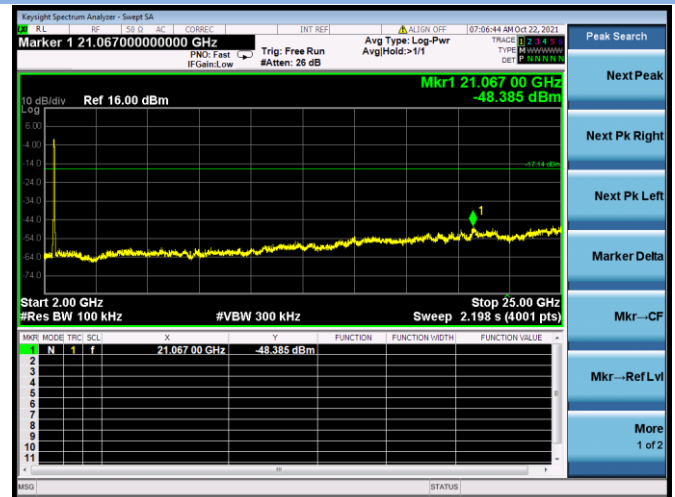
802.11ax-40 CHANNEL 8 CARRIER LEVEL



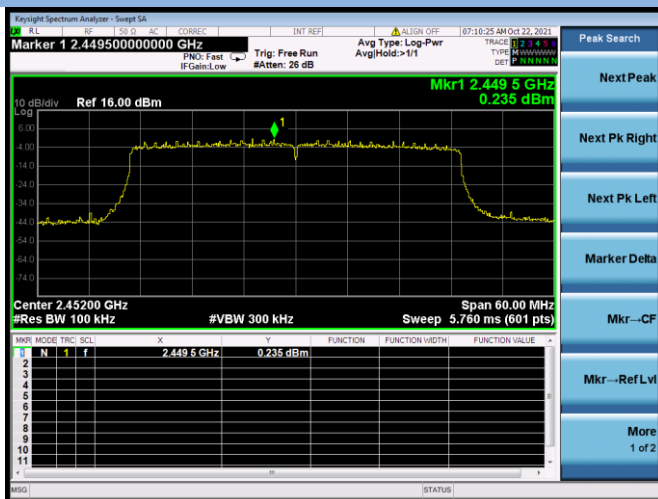
802.11ax-40 CHANNEL 8, SPURIOUS
30 MHz ~ 3 GHz



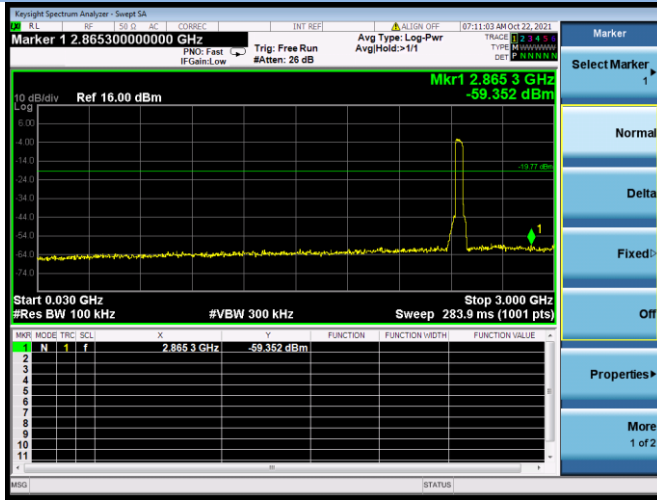
802.11ax-40 CHANNEL 8, SPURIOUS
2 GHz ~ 25 GHz



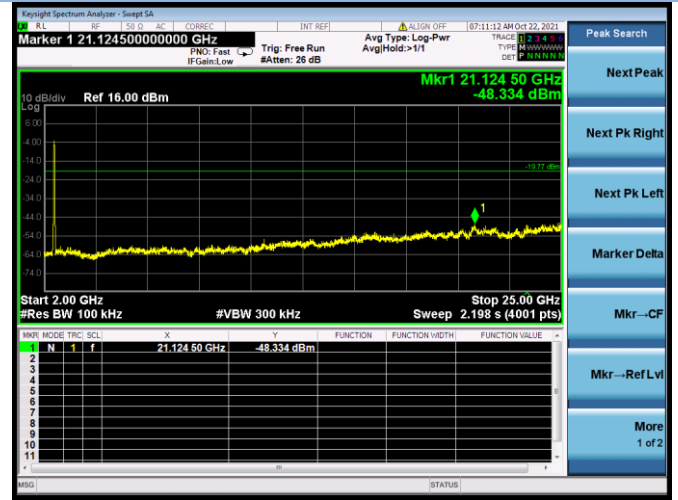
802.11ax-40 CHANNEL 9 CARRIER LEVEL



802.11ax-40 CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz



802.11ax-40 CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

Test Data

Note: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Main Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-51.91	6.69	-13.31	Pass
11	-56.32	6.65	-13.35	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-38.27	5.37	-14.63	Pass
2	-41.85	5.82	-14.18	Pass
11	-48.35	5.82	-14.18	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-39.79	4.87	-15.13	Pass
2	-42.93	5.70	-14.30	Pass
10	-51.17	5.62	-14.38	Pass
11	-48.69	5.30	-14.70	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-43.34	1.17	-18.83	Pass
4	-45.04	2.95	-17.05	Pass
7	-46.66	1.52	-18.48	Pass
8	-46.10	1.43	-18.57	Pass
9	-47.02	0.97	-19.03	Pass

802.11ac-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-37.48	4.90	-15.10	Pass
2	-43.20	5.85	-14.15	Pass
10	-51.10	5.57	-14.43	Pass
11	-57.55	4.90	-15.10	Pass

802.11ac-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-42.61	2.31	-17.70	Pass
4	-44.87	2.54	-17.46	Pass
7	-46.72	2.38	-17.62	Pass
8	-47.01	0.96	-19.04	Pass
9	-46.85	0.26	-19.74	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-40.44	4.15	-15.85	Pass
2	-42.56	5.54	-14.46	Pass
10	-50.03	4.25	-15.75	Pass
11	-48.61	3.98	-16.02	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-34.72	0.74	-19.26	Pass
4	-41.33	1.20	-18.80	Pass
5	-43.02	2.28	-17.72	Pass
7	-45.72	1.25	-18.75	Pass
8	-45.02	0.57	-19.43	Pass
9	-45.19	0.10	-19.90	Pass

Aux. Antenna
802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-50.28	7.83	-12.17	Pass
11	-55.98	7.61	-12.39	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-32.21	6.70	-13.30	Pass
2	-35.79	6.67	-13.33	Pass
11	-42.90	6.65	-13.35	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-35.60	5.35	-14.65	Pass
2	-38.25	6.28	-13.72	Pass
10	-48.42	6.43	-13.57	Pass
11	-43.65	6.33	-13.67	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-39.69	2.66	-17.34	Pass
4	-37.63	3.01	-16.99	Pass
7	-43.35	3.34	-16.66	Pass
8	-42.06	3.07	-16.93	Pass
9	-42.31	1.49	-18.51	Pass

802.11ac-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-31.24	5.28	-14.72	Pass
2	-38.04	6.38	-13.62	Pass
10	-48.82	6.90	-13.10	Pass
11	-42.28	6.62	-13.38	Pass

802.11ac-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-37.52	3.63	-16.37	Pass
4	-40.48	3.90	-16.10	Pass
7	-43.48	3.09	-16.91	Pass
8	-43.19	1.26	-18.74	Pass
9	-42.15	1.76	-18.24	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-35.09	5.29	-14.71	Pass
2	-35.47	6.05	-13.95	Pass
10	-46.73	6.80	-13.20	Pass
11	-43.00	5.14	-14.86	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-39.58	1.28	-18.72	Pass
4	-39.95	3.30	-16.70	Pass
5	-39.76	3.72	-16.28	Pass
7	-44.19	1.41	-18.59	Pass
8	-43.21	2.19	-17.81	Pass
9	-42.66	0.79	-19.21	Pass

MIMO-Main Antenna
802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-54.02	6.38	-13.62	Pass
11	-56.77	6.08	-13.92	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-38.61	5.42	-14.58	Pass
2	-42.28	5.76	-14.24	Pass
11	-47.56	4.93	-15.07	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-39.88	3.77	-16.23	Pass
2	-43.72	4.98	-15.02	Pass
10	-50.59	5.15	-14.85	Pass
11	-47.62	5.07	-14.93	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-43.12	1.20	-18.80	Pass
4	-44.18	3.08	-16.92	Pass
7	-48.17	1.99	-18.01	Pass
8	-46.51	1.66	-18.34	Pass
9	-47.46	0.10	-19.91	Pass

802.11ac-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-39.49	5.13	-14.87	Pass
2	-42.87	5.91	-14.09	Pass
10	-50.97	5.90	-14.10	Pass
11	-48.11	5.21	-14.79	Pass

802.11ac-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-44.71	0.73	-19.27	Pass
4	-44.51	3.18	-16.82	Pass
7	-48.15	0.87	-19.13	Pass
8	-46.78	0.75	-19.25	Pass
9	-48.29	-1.64	-21.64	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-41.42	2.89	-17.11	Pass
2	-40.99	5.96	-14.04	Pass
10	-49.71	4.87	-15.13	Pass
11	-49.33	3.32	-16.68	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-44.97	0.66	-19.34	Pass
4	-44.64	1.68	-18.32	Pass
5	-46.38	2.37	-17.63	Pass
7	-48.78	0.57	-19.43	Pass
8	-46.98	1.20	-18.80	Pass
9	-48.63	-2.50	-22.50	Pass

MIMO-Aux. Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-50.75	7.56	-12.44	Pass
11	-56.56	8.59	-11.41	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-31.79	6.45	-13.55	Pass
2	-34.69	6.40	-13.60	Pass
11	-42.47	6.89	-13.11	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-34.83	5.55	-14.45	Pass
2	-37.08	7.01	-12.99	Pass
10	-48.40	5.64	-14.36	Pass
11	-43.25	6.36	-13.64	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-41.76	1.23	-18.77	Pass
4	-36.83	3.38	-16.62	Pass
7	-45.31	1.39	-18.61	Pass
8	-42.73	2.45	-17.55	Pass
9	-44.08	-0.52	-20.52	Pass

802.11ac-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-34.75	5.76	-14.24	Pass
2	-36.68	5.96	-14.04	Pass
10	-49.23	6.54	-13.46	Pass
11	-43.19	5.27	-14.73	Pass

802.11ac-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-41.67	1.33	-18.67	Pass
4	-36.75	3.90	-16.10	Pass
7	-45.18	1.89	-18.11	Pass
8	-42.56	2.33	-17.67	Pass
9	-44.64	0.61	-19.39	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-37.21	4.13	-15.87	Pass
2	-34.36	6.89	-13.11	Pass
10	-46.77	6.88	-13.12	Pass
11	-44.54	5.09	-14.91	Pass

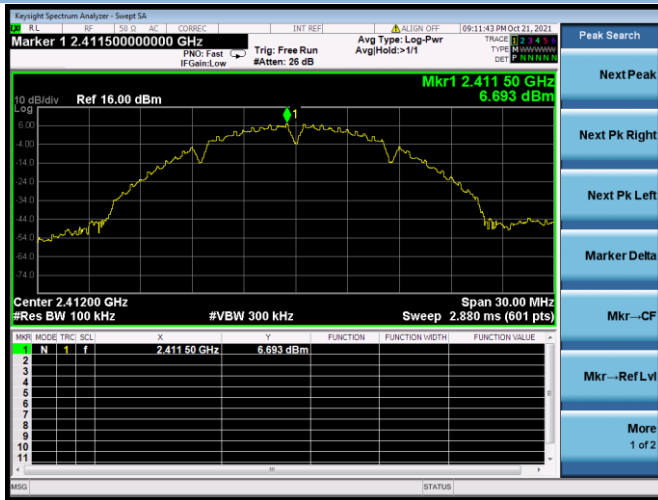
802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-41.91	1.45	-18.55	Pass
4	-38.70	2.90	-17.10	Pass
5	-40.45	3.10	-16.90	Pass
7	-45.66	1.57	-18.43	Pass
8	-42.62	2.86	-17.14	Pass
9	-44.94	0.23	-19.77	Pass

Test Plots

Main Antenna

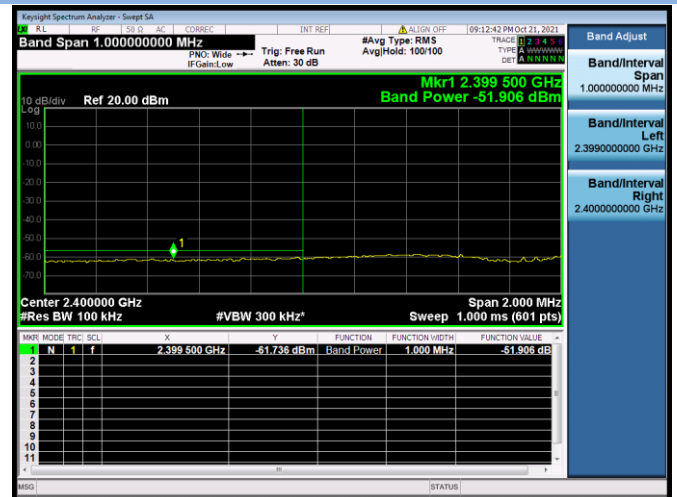
802.11b CHANNEL 1, Carrier level



802.11b CHANNEL 1, Reference level



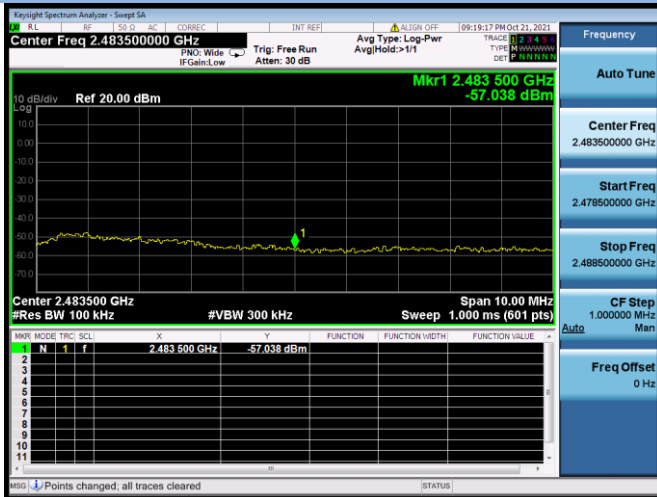
802.11b CHANNEL 1, Band Edge



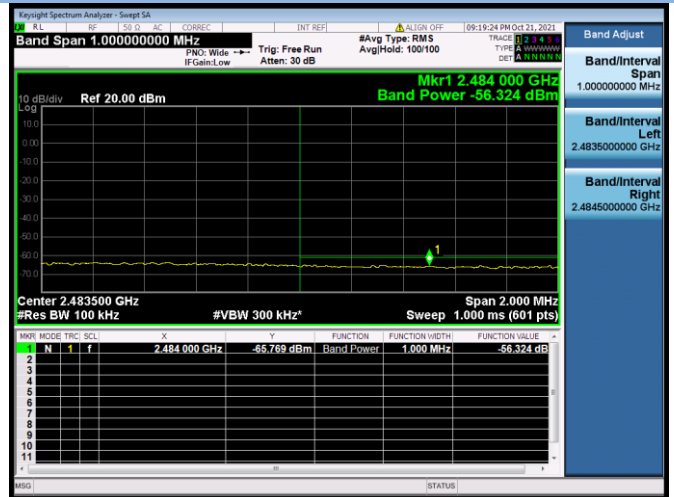
802.11b CHANNEL 11, Carrier level



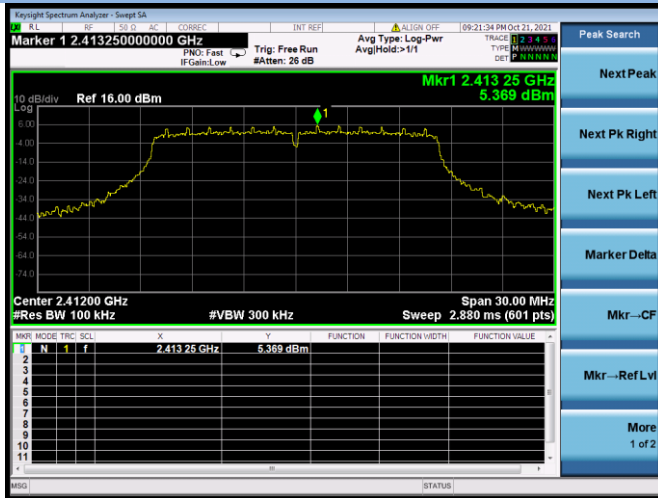
802.11b CHANNEL 11, Reference level



802.11b CHANNEL 11, Band Edge



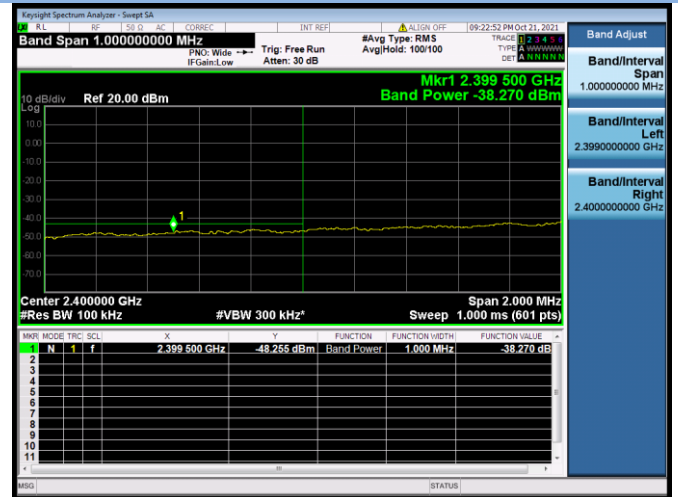
802.11g CHANNEL 1, Carrier level



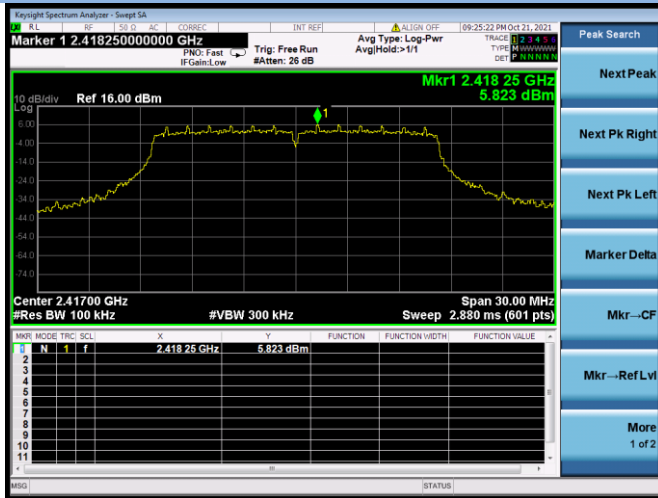
802.11g CHANNEL 1, Reference level



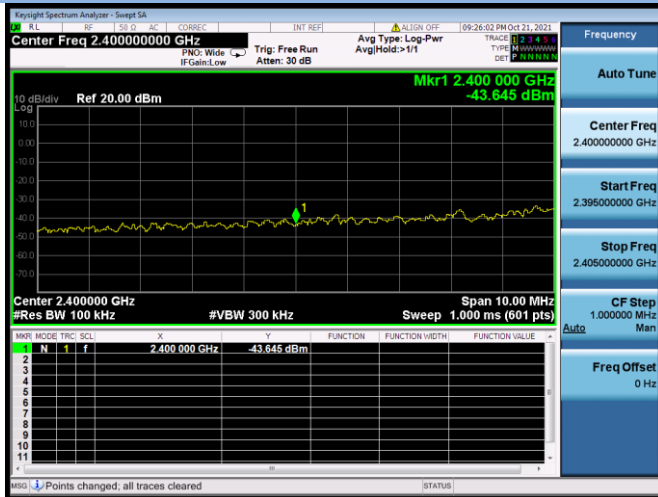
802.11g CHANNEL 1, Band Edge



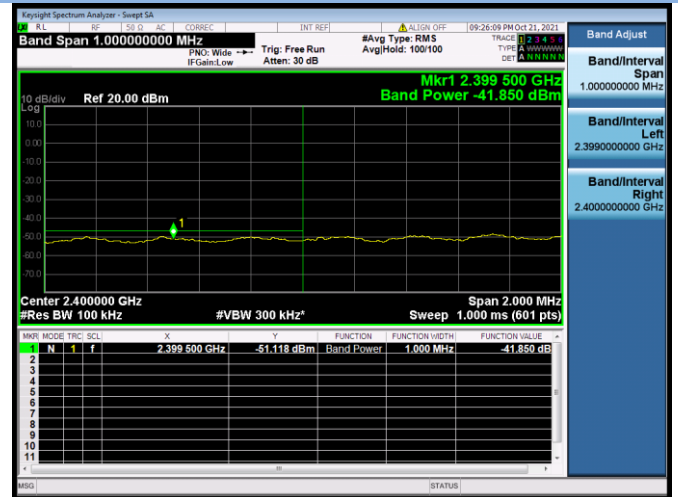
802.11g CHANNEL 2, Carrier level



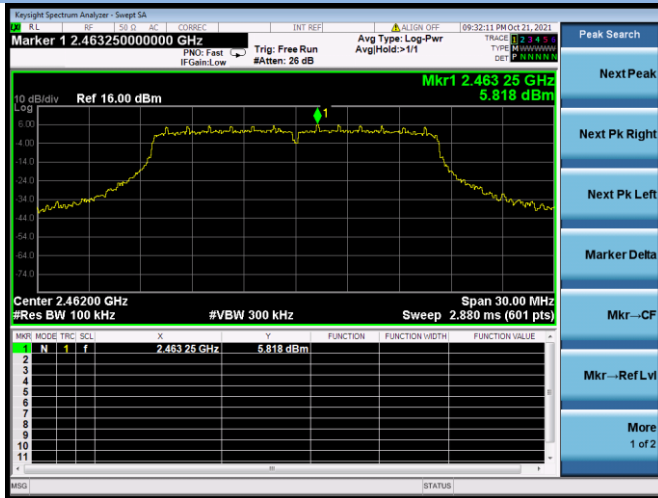
802.11g CHANNEL 2, Reference level



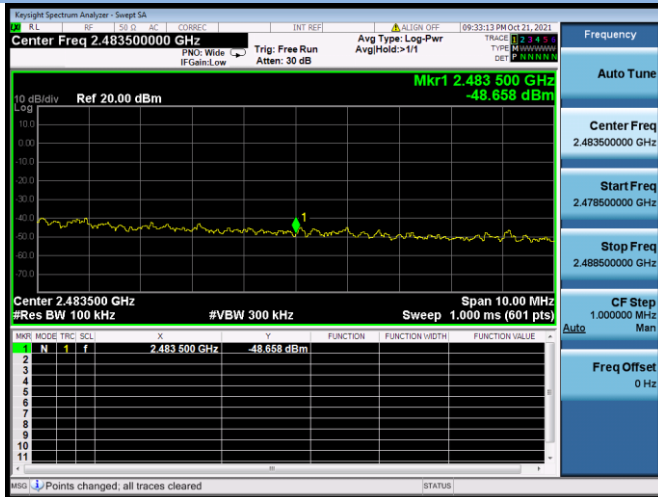
802.11g CHANNEL 2, Band Edge



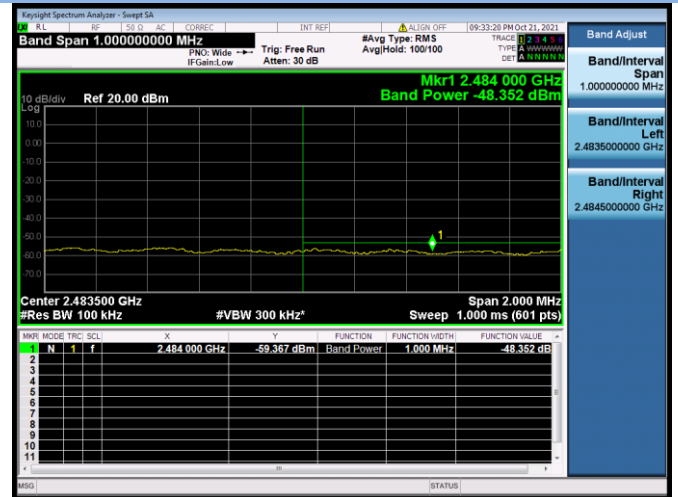
802.11g CHANNEL 11, Carrier level



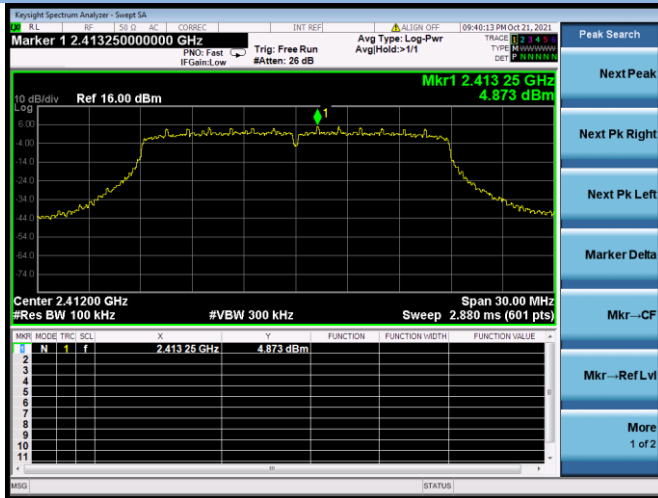
802.11g CHANNEL 11, Reference level



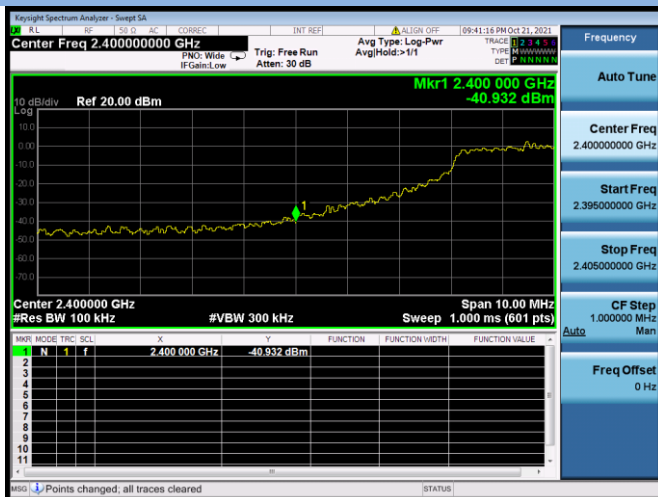
802.11g CHANNEL 11, Band Edge



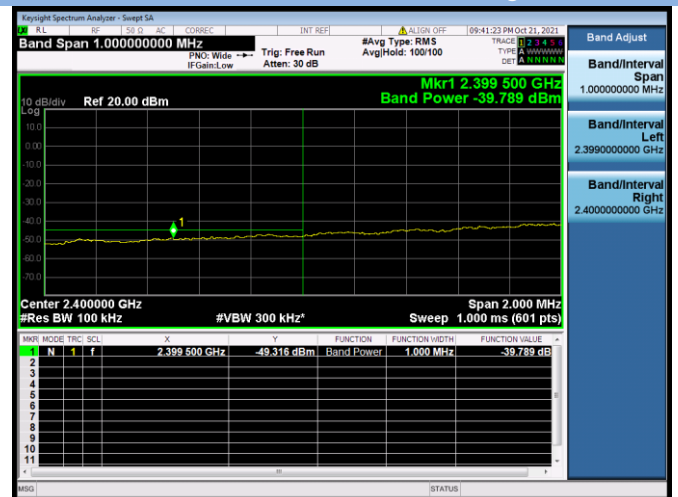
802.11n-20 CHANNEL 1, Carrier level



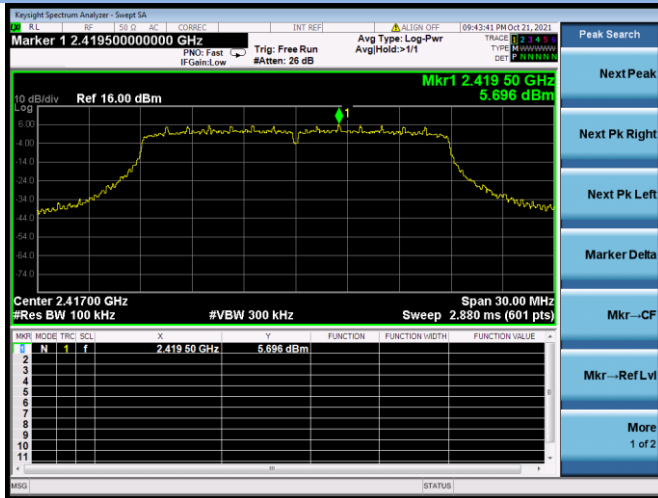
802.11n-20 MHz CHANNEL 1, Reference level



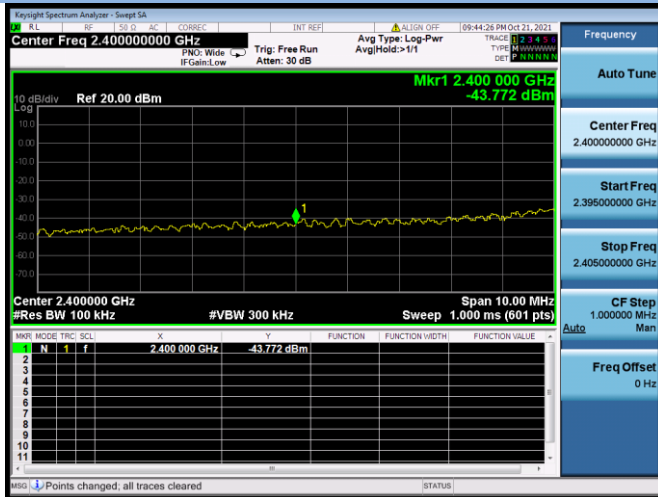
802.11n-20 MHz CHANNEL 1, Band Edge



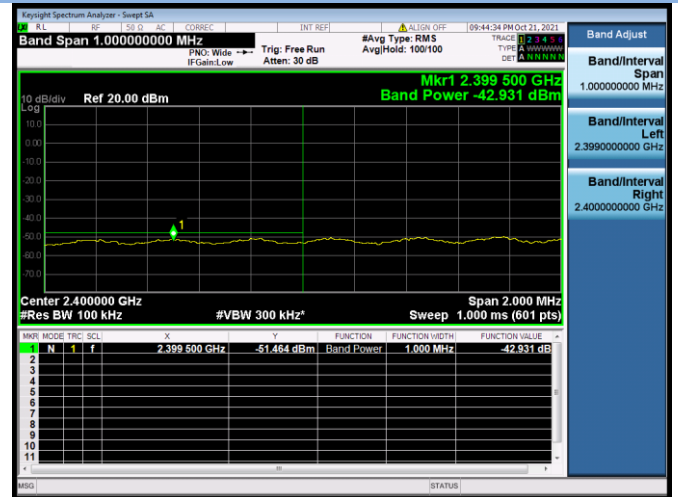
802.11n-20 CHANNEL 2, Carrier level



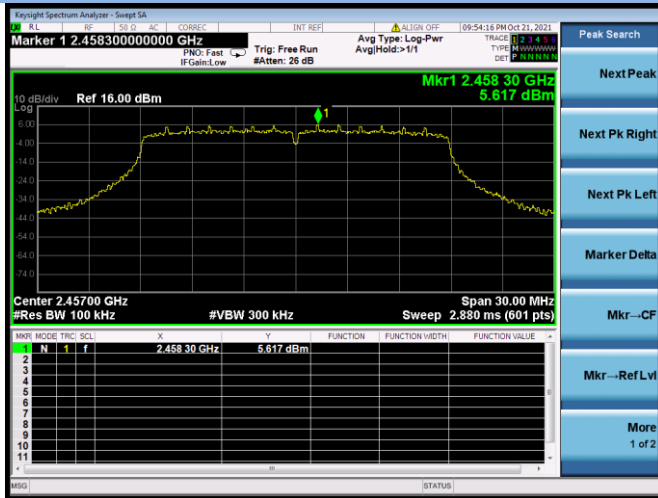
802.11n-20 MHz CHANNEL 2, Reference level



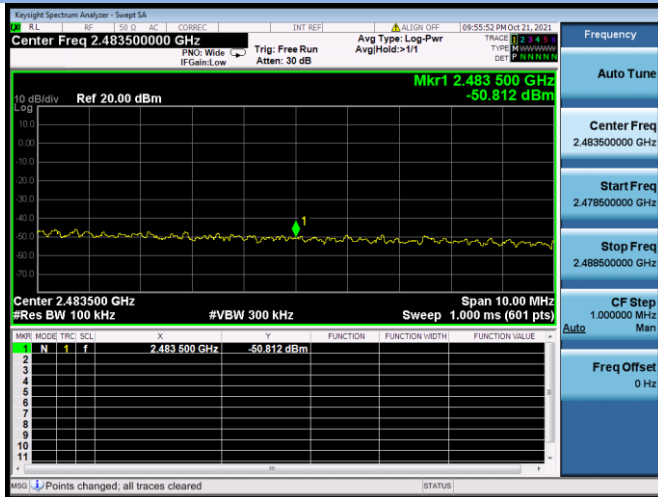
802.11n-20 MHz CHANNEL 2, Band Edge



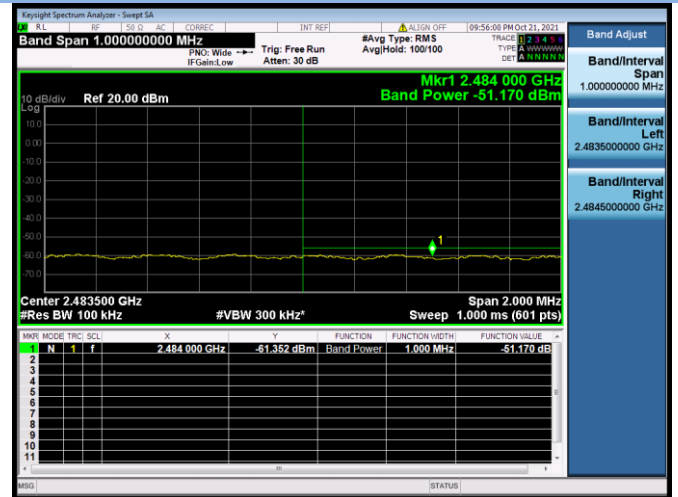
802.11n-20 CHANNEL 10, Carrier level



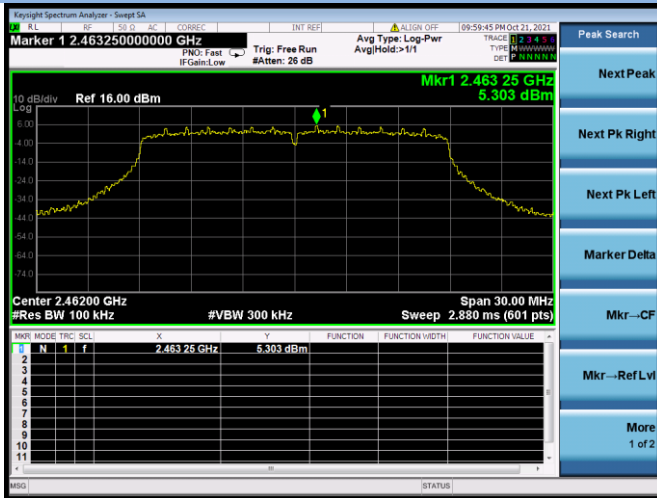
802.11n-20 MHz CHANNEL 10, Reference level



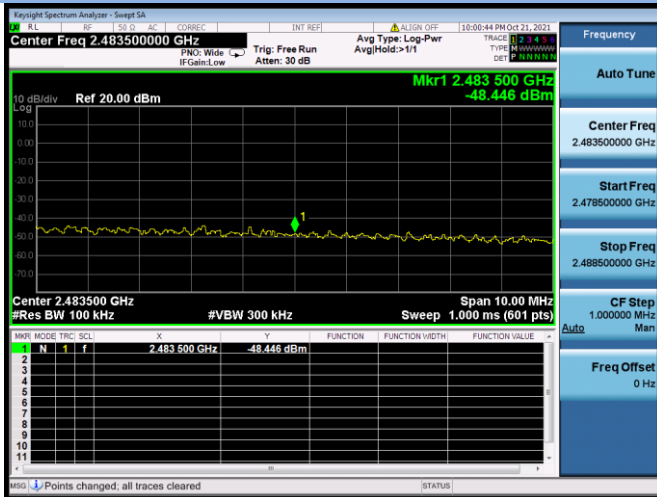
802.11n-20 MHz CHANNEL 10, Band Edge



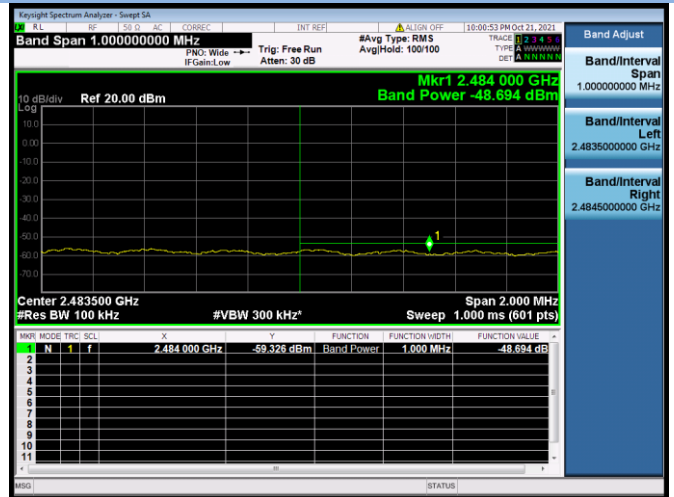
802.11n-20 CHANNEL 11, Carrier level



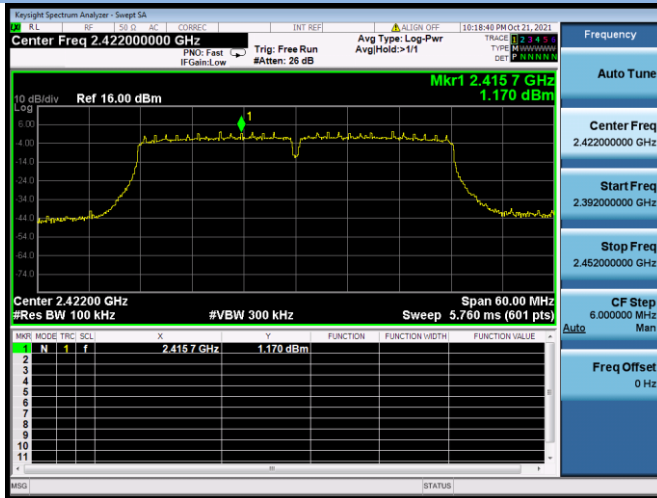
802.11n-20 MHz CHANNEL 11, Reference level



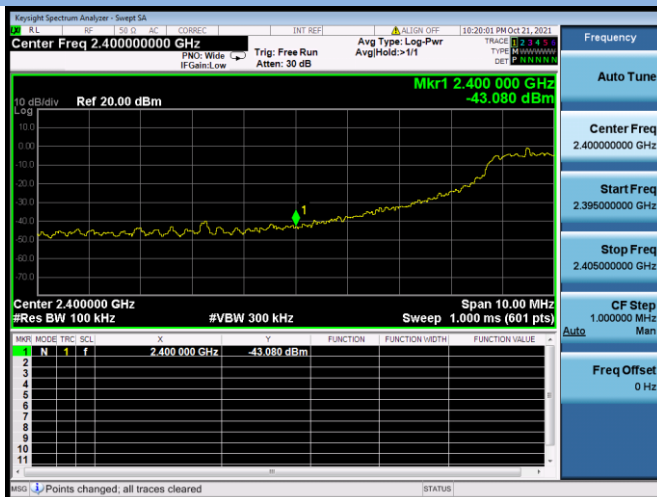
802.11n-20 MHz CHANNEL 11, Band Edge



802.11n-40 CHANNEL 3, Carrier level



802.11n-40 MHz CHANNEL 3, Reference level



802.11n-40 MHz CHANNEL 3, Band Edge

