4.3.8 Test Result (Mode 2)

Non-Beamforming Mode

802.11a

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	7.70	7.73	7.68	8.02	24.018	13.81	29.00	Pass
40	5200	7.72	7.76	7.65	8.03	24.06	13.81	29.00	Pass
48	5240	7.69	7.67	7.76	7.98	23.974	13.80	29.00	Pass
149	5745	19.65	19.84	19.77	20.06	384.873	25.85	29.00	Pass
157	5785	19.79	19.82	19.67	20.09	385.997	25.87	29.00	Pass
165	5825	19.85	19.93	19.69	19.76	382.741	25.83	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	120.50	20.81	21	Pass
40	5200	120.504	20.81	21	Pass
48	5240	120.226	20.80	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	7.44	7.54	7.49	7.79	22.844	13.59	29.00	Pass
40	5200	7.56	7.49	7.65	7.80	23.159	13.65	29.00	Pass
48	5240	7.49	7.54	7.62	7.80	23.092	13.63	29.00	Pass
149	5745	19.79	19.72	19.62	19.91	378.607	25.78	29.00	Pass
157	5785	19.86	19.73	19.61	19.96	381.295	25.81	29.00	Pass
165	5825	19.71	19.65	19.51	20.03	375.821	25.75	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	114.55	20.59	21	Pass
40	5200	116.145	20.65	21	Pass
48	5240	115.611	20.63	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	7.71	7.43	7.81	7.40	22.97	13.61	29.00	Pass
46	5230	7.78	7.48	7.84	7.41	23.185	13.65	29.00	Pass
151	5755	20.41	20.59	20.36	20.84	454.433	26.57	29.00	Pass
159	5795	20.96	21.06	20.91	21.42	514.368	27.11	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	115.08	20.61	21	Pass
46	5230	116.145	20.65	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	7.67	7.31	7.62	7.28	22.357	13.49	29.00	Pass
155	5775	18.49	18.67	18.51	18.81	291.243	24.64	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	111.94	20.49	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	7.58	7.68	7.62	7.86	23.48	13.71	29.00	Pass
40	5200	7.62	7.65	7.71	7.88	23.642	13.74	29.00	Pass
48	5240	7.62	7.69	7.76	7.93	23.835	13.77	29.00	Pass
149	5745	19.92	19.87	19.74	20.02	389.876	25.91	29.00	Pass
157	5785	19.96	19.84	19.72	20.01	389.453	25.90	29.00	Pass
165	5825	19.86	19.79	19.68	20.11	387.569	25.88	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	117.76	20.71	21	Pass
40	5200	118.577	20.74	21	Pass
48	5240	119.399	20.77	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	7.86	7.54	7.95	7.46	23.594	13.73	29.00	Pass
46	5230	7.93	7.62	7.97	7.52	23.905	13.78	29.00	Pass
151	5755	20.53	20.72	20.49	20.95	467.407	26.70	29.00	Pass
159	5795	21.08	21.21	21.03	21.53	529.361	27.24	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	118.30	20.73	21	Pass
46	5230	119.674	20.78	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	7.78	7.45	7.77	7.43	23.075	13.63	29.00	Pass
155	5775	18.62	18.78	18.62	18.94	299.408	24.76	29.00	Pass

Note: 1. Antennas gain = 7dBi > 6dBi, so the power limit shall be reduced to 30-(7-6) = 29.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	115.61	20.63	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.76	1.74	1.64	1.88	5.993	7.78	22.98	Pass
40	5200	1.74	1.69	1.61	1.72	5.903	7.71	22.98	Pass
48	5240	1.87	1.65	1.54	1.60	5.871	7.69	22.98	Pass
149	5745	16.74	16.61	16.45	16.84	185.483	22.68	22.98	Pass
157	5785	16.67	16.57	16.62	16.75	185.081	22.67	22.98	Pass
165	5825	16.68	16.72	16.51	16.86	186.848	22.71	22.98	Pass

Note: 1. For U-NII-1: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.
2. For U-NII-3: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	120.23	20.80	21	Pass
40	5200	118.304	20.73	21	Pass
48	5240	117.761	20.71	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leqq$ 125mW(21 dBm) to compliance.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	1.85	1.57	1.75	1.63	5.918	7.72	22.98	Pass
46	5230	1.87	1.58	1.73	1.65	5.928	7.73	22.98	Pass
151	5755	16.51	16.67	16.37	16.87	183.215	22.63	22.98	Pass
159	5795	16.37	16.65	16.52	16.85	182.881	22.62	22.98	Pass

Note: 1. For U-NII-1: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.
2. For U-NII-3: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	118.58	20.74	21	Pass
46	5230	118.85	20.75	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	1.82	1.53	1.93	1.59	5.945	7.74	22.98	Pass
155	5775	16.45	16.73	16.48	16.79	183.471	22.64	22.98	Pass

Note: 1. For U-NII-1: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.
2. For U-NII-3: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	119.12	20.76	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.92	1.83	1.76	1.96	6.15	7.89	22.98	Pass
40	5200	1.86	1.79	1.73	1.83	6.058	7.82	22.98	Pass
48	5240	1.99	1.76	1.68	1.72	6.039	7.81	22.98	Pass
149	5745	16.82	16.72	16.59	16.93	189.994	22.79	22.98	Pass
157	5785	16.79	16.71	16.73	16.86	190.261	22.79	22.98	Pass
165	5825	16.81	16.86	16.62	16.93	191.739	22.83	22.98	Pass

Note: 1. For U-NII-1: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.
2. For U-NII-3: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	123.31	20.91	21	Pass
40	5200	121.339	20.84	21	Pass
48	5240	121.06	20.83	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leqq$ 125mW(21 dBm) to compliance.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	1.96	1.71	1.89	1.76	6.098	7.85	22.98	Pass
46	5230	1.98	1.69	1.86	1.77	6.091	7.85	22.98	Pass
151	5755	16.62	16.73	16.48	16.96	187.14	22.72	22.98	Pass
159	5795	16.52	16.72	16.65	16.98	187.991	22.74	22.98	Pass

Note: 1. For U-NII-1: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.
2. For U-NII-3: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	122.18	20.87	21	Pass
46	5230	122.18	20.87	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	1.93	1.67	2.02	1.72	6.107	7.86	22.98	Pass
155	5775	16.53	16.86	16.59	16.92	188.314	22.75	22.98	Pass

Note: 1. For U-NII-1: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.
2. For U-NII-3: The directional gain = 7dBi + 10log(4) =13.02dBi > 6dBi, so the power limit shall be reduced to 30-(13.02-6) = 22.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	122.46	20.88	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

4.3.9 Test Result (Mode 3)

Non-Beamforming Mode

802.11a

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	8.17	8.21	8.15	8.47	26.746	14.27	29.50	Pass
40	5200	8.18	8.24	8.13	8.52	26.858	14.29	29.50	Pass
48	5240	8.14	8.22	8.18	8.51	26.826	14.29	29.50	Pass
149	5745	16.95	16.84	16.77	17.06	196.2	22.93	29.50	Pass
157	5785	16.79	16.82	16.67	17.09	193.457	22.87	29.50	Pass
165	5825	16.41	16.62	16.25	16.62	177.761	22.50	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	119.40	20.77	21	Pass
40	5200	119.95	20.79	21	Pass
48	5240	119.95	20.79	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	7.91	8.06	8.01	8.23	25.554	14.07	29.50	Pass
40	5200	7.96	8.01	8.06	8.21	25.595	14.08	29.50	Pass
48	5240	7.93	8.03	8.12	8.30	25.809	14.12	29.50	Pass
149	5745	18.81	18.72	18.60	18.93	301.112	24.79	29.50	Pass
157	5785	18.81	18.73	18.58	18.89	300.234	24.77	29.50	Pass
165	5825	18.74	18.65	18.53	19.00	298.818	24.75	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	114.03	20.57	21	Pass
40	5200	114.288	20.58	21	Pass
48	5240	115.345	20.62	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	8.24	7.92	8.34	8.31	26.462	14.23	29.50	Pass
46	5230	8.31	8.00	8.35	7.93	26.134	14.17	29.50	Pass
151	5755	18.42	18.58	18.32	18.81	285.566	24.56	29.50	Pass
159	5795	18.43	18.59	18.40	18.92	289.106	24.61	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	118.30	20.73	21	Pass
46	5230	116.681	20.67	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	8.12	7.83	8.15	7.86	25.194	14.01	29.50	Pass
155	5775	19.02	19.12	18.96	19.35	326.262	25.14	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	112.46	20.51	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	8.08	8.18	8.12	8.36	26.345	14.21	29.50	Pass
40	5200	8.12	8.15	8.21	8.33	26.448	14.22	29.50	Pass
48	5240	8.12	8.19	8.26	8.43	26.743	14.27	29.50	Pass
149	5745	18.92	18.87	18.74	19.02	309.69	24.91	29.50	Pass
157	5785	18.96	18.84	18.72	19.01	309.353	24.90	29.50	Pass
165	5825	18.86	18.79	18.68	19.11	307.857	24.88	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	117.76	20.71	21	Pass
40	5200	118.032	20.72	21	Pass
48	5240	119.399	20.77	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	8.36	8.04	8.45	8.46	27.236	14.35	29.50	Pass
46	5230	8.43	8.12	8.47	8.02	26.822	14.28	29.50	Pass
151	5755	18.53	18.72	18.49	18.95	294.914	24.70	29.50	Pass
159	5795	18.58	18.71	18.53	19.03	297.681	24.74	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	121.62	20.85	21	Pass
46	5230	119.674	20.78	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	8.28	7.95	8.27	7.93	25.89	14.13	29.50	Pass
155	5775	19.12	19.28	19.12	19.44	335.941	25.26	29.50	Pass

Note: 1. Antennas gain = 6.5dBi > 6dBi, so the power limit shall be reduced to 30-(6.50-6) = 29.50dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	115.61	20.63	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	1.93	2.13	1.97	2.24	6.442	8.09	23.48	Pass
40	5200	1.89	1.97	2.04	2.13	6.352	8.03	23.48	Pass
48	5240	1.82	2.02	2.11	2.27	6.425	8.08	23.48	Pass
149	5745	17.19	17.21	17.06	17.35	210.103	23.22	23.48	Pass
157	5785	17.29	17.24	17.00	17.44	212.127	23.27	23.48	Pass
165	5825	17.22	17.09	17.06	17.46	210.426	23.23	23.48	Pass

Note: 1. For U-NII-1: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.
2. For U-NII-3: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	115.08	20.61	21	Pass
40	5200	113.501	20.55	21	Pass
48	5240	114.815	20.60	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	2.24	1.86	2.29	2.30	6.602	8.20	23.48	Pass
46	5230	2.25	1.89	2.19	1.86	6.414	8.07	23.48	Pass
151	5755	16.84	17.16	16.92	17.41	204.59	23.11	23.48	Pass
159	5795	17.02	17.24	17.01	17.43	208.886	23.20	23.48	Pass

Note: 1. For U-NII-1: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.
2. For U-NII-3: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	118.03	20.72	21	Pass
46	5230	114.551	20.59	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	2.06	1.84	2.10	1.93	6.316	8.00	23.48	Pass
155	5775	16.91	17.02	16.93	17.25	201.847	23.05	23.48	Pass

Note: 1. For U-NII-1: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.
2. For U-NII-3: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	112.72	20.52	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	2.03	2.24	2.04	2.31	6.573	8.18	23.48	Pass
40	5200	2.01	2.12	2.18	2.26	6.552	8.16	23.48	Pass
48	5240	1.96	2.13	2.20	2.34	6.577	8.18	23.48	Pass
149	5745	17.36	17.33	17.20	17.49	217.111	23.37	23.48	Pass
157	5785	17.42	17.36	17.18	17.52	218.391	23.39	23.48	Pass
165	5825	17.31	17.24	17.13	17.55	215.32	23.33	23.48	Pass

Note: 1. For U-NII-1: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.
2. For U-NII-3: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	117.49	20.70	21	Pass
40	5200	116.95	20.68	21	Pass
48	5240	117.49	20.70	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leqq$ 125mW(21 dBm) to compliance.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	2.33	1.96	2.41	2.43	6.772	8.31	23.48	Pass
46	5230	2.37	2.01	2.32	1.99	6.602	8.20	23.48	Pass
151	5755	16.97	17.28	17.06	17.53	210.67	23.24	23.48	Pass
159	5795	17.16	17.34	17.15	17.57	215.228	23.33	23.48	Pass

Note: 1. For U-NII-1: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.
2. For U-NII-3: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	121.06	20.83	21	Pass
46	5230	118.032	20.72	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	2.17	1.92	2.22	2.03	6.467	8.11	23.48	Pass
155	5775	17.02	17.19	17.08	17.34	207.961	23.18	23.48	Pass

Note: 1. For U-NII-1: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.
2. For U-NII-3: The directional gain = 6.5dBi + 10log(4) =12.52dBi > 6dBi, so the power limit shall be reduced to 30-(12.52-6) = 23.48dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	115.61	20.63	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

4.3.10 Test Result (Mode 4)

Non-Beamforming Mode

802.11a

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	2.68	2.73	2.71	2.98	7.581	8.80	24.00	Pass
40	5200	2.62	2.76	2.68	3.05	7.588	8.80	24.00	Pass
48	5240	2.64	2.72	2.67	3.03	7.566	8.79	24.00	Pass
149	5745	17.96	17.86	17.77	18.08	247.721	23.94	24.00	Pass
157	5785	17.79	17.85	17.65	18.11	243.996	23.87	24.00	Pass
165	5825	17.87	17.95	17.71	18.04	246.308	23.91	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	120.23	20.80	21	Pass
40	5200	120.226	20.80	21	Pass
48	5240	119.95	20.79	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	2.47	2.59	2.51	2.81	7.274	8.62	24.00	Pass
40	5200	2.42	2.54	2.61	2.71	7.231	8.59	24.00	Pass
48	5240	2.43	2.51	2.68	2.81	7.296	8.63	24.00	Pass
149	5745	17.78	17.72	17.63	17.91	238.88	23.78	24.00	Pass
157	5785	17.82	17.67	17.62	17.88	238.199	23.77	24.00	Pass
165	5825	17.71	17.68	17.56	17.93	236.737	23.74	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	115.35	20.62	21	Pass
40	5200	114.551	20.59	21	Pass
48	5240	115.611	20.63	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	2.75	2.48	2.81	2.35	7.282	8.62	24.00	Pass
46	5230	2.79	2.51	2.83	2.42	7.348	8.66	24.00	Pass
151	5755	17.46	17.62	17.38	17.82	228.764	23.59	24.00	Pass
159	5795	17.46	17.59	17.42	17.93	230.425	23.63	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	115.35	20.62	21	Pass
46	5230	116.413	20.66	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	2.62	2.35	2.69	2.34	7.118	8.52	24.00	Pass
155	5775	17.53	17.75	17.51	17.82	233.088	23.68	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	112.72	20.52	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	2.61	2.73	2.64	2.92	7.494	8.75	24.00	Pass
40	5200	2.57	2.68	2.73	2.89	7.481	8.74	24.00	Pass
48	5240	2.59	2.71	2.82	2.96	7.573	8.79	24.00	Pass
149	5745	17.92	17.88	17.78	18.03	246.833	23.92	24.00	Pass
157	5785	17.99	17.82	17.75	18.04	246.73	23.92	24.00	Pass
165	5825	17.89	17.83	17.72	18.09	245.764	23.91	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	118.85	20.75	21	Pass
40	5200	118.577	20.74	21	Pass
48	5240	119.95	20.79	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	2.86	2.59	2.96	2.49	7.499	8.75	24.00	Pass
46	5230	2.93	2.65	2.99	2.54	7.59	8.80	24.00	Pass
151	5755	17.58	17.75	17.52	17.96	235.857	23.73	24.00	Pass
159	5795	17.63	17.75	17.55	18.04	238.074	23.77	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	118.85	20.75	21	Pass
46	5230	120.226	20.80	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	2.79	2.48	2.82	2.46	7.347	8.66	24.00	Pass
155	5775	17.65	17.86	17.62	17.97	239.776	23.80	24.00	Pass

Note: 1. Antennas gain = 12dBi > 6dBi, so the power limit shall be reduced to 30-(12-6) = 24.00dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	116.41	20.66	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

Beamforming Mode

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	-3.62	-3.54	-3.68	-3.37	1.7659	2.47	17.98	Pass
40	5200	-3.61	-3.54	-3.43	-3.32	1.7976	2.55	17.98	Pass
48	5240	-3.59	-3.42	-3.31	-3.28	1.8291	2.62	17.98	Pass
149	5745	11.78	11.69	11.61	11.85	59.622	17.75	17.98	Pass
157	5785	11.79	11.64	11.62	11.86	59.556	17.75	17.98	Pass
165	5825	11.62	11.59	11.49	11.92	58.595	17.68	17.98	Pass

Note: 1. For U-NII-1: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.
2. For U-NII-3: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	111.94	20.49	21	Pass
40	5200	114.025	20.57	21	Pass
48	5240	115.878	20.64	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	-3.34	-3.61	-3.32	-3.66	1.7951	2.54	17.98	Pass
46	5230	-3.23	-3.53	-3.19	-3.62	1.8332	2.63	17.98	Pass
151	5755	11.42	11.56	11.30	11.74	56.607	17.53	17.98	Pass
159	5795	11.44	11.52	11.26	11.78	56.554	17.52	17.98	Pass

Note: 1. For U-NII-1: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.
2. For U-NII-3: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	113.76	20.56	21	Pass
46	5230	116.145	20.65	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-3.48	-3.72	-3.34	-3.81	1.7527	2.44	17.98	Pass
155	5775	11.41	11.59	11.36	11.71	56.759	17.54	17.98	Pass

Note: 1. For U-NII-1: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.
2. For U-NII-3: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	111.17	20.46	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	-3.54	-3.46	-3.59	-3.29	1.7997	2.55	17.98	Pass
40	5200	-3.48	-3.43	-3.34	-3.24	1.8404	2.65	17.98	Pass
48	5240	-3.53	-3.30	-3.21	-3.19	1.8686	2.72	17.98	Pass
149	5745	11.86	11.78	11.72	11.96	60.975	17.85	17.98	Pass
157	5785	11.91	11.76	11.68	11.99	61.056	17.86	17.98	Pass
165	5825	11.76	11.72	11.61	12.01	60.229	17.80	17.98	Pass

Note: 1. For U-NII-1: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.
2. For U-NII-3: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	114.03	20.57	21	Pass
40	5200	116.681	20.67	21	Pass
48	5240	118.577	20.74	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leqq$ 125mW(21 dBm) to compliance.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	-3.21	-3.49	-3.16	-3.58	1.8468	2.66	17.98	Pass
46	5230	-3.11	-3.42	-3.08	-3.53	1.8793	2.74	17.98	Pass
151	5755	11.51	11.67	11.43	11.82	57.952	17.63	17.98	Pass
159	5795	11.56	11.63	11.39	11.91	58.172	17.65	17.98	Pass

Note: 1. For U-NII-1: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.
2. For U-NII-3: The directional gain =12dBi + 10log(4) = 18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.

EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	116.95	20.68	21	Pass
46	5230	119.124	20.76	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-3.37	-3.61	-3.21	-3.67	1.8028	2.56	17.98	Pass
155	5775	11.52	11.73	11.49	11.82	58.383	17.66	17.98	Pass

Note: 1. For U-NII-1: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.
2. For U-NII-3: The directional gain = 12dBi + 10log(4) =18.02dBi > 6dBi, so the power limit shall be reduced to 30-(18.02-6) = 17.98dBm.

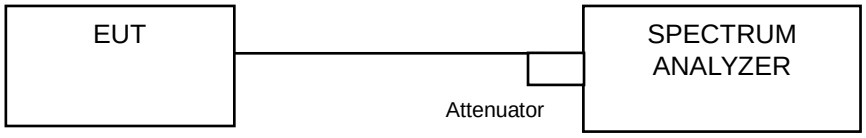
EIRP POWER OUTPUT

Chan.	Chan. Freq. (MHz)	EIRP Power (mW)	EIRP Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	114.29	20.58	21	Pass

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p ≦ 125mW(21 dBm) to compliance.

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.4.4 Test Results (Mode 1)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.44	16.68	16.68	16.56
40	5200	16.44	16.44	16.56	16.44
48	5240	16.56	16.44	16.56	16.44
149	5745	16.56	16.44	16.44	16.44
157	5785	16.44	16.44	16.56	16.56
165	5825	16.44	16.44	16.44	16.56

802.11ax (HE20)

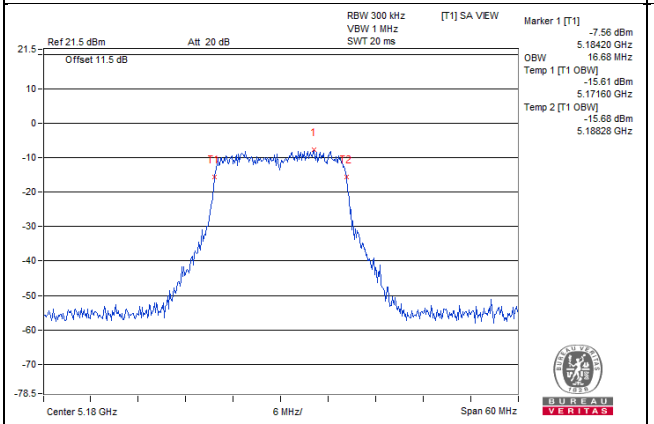
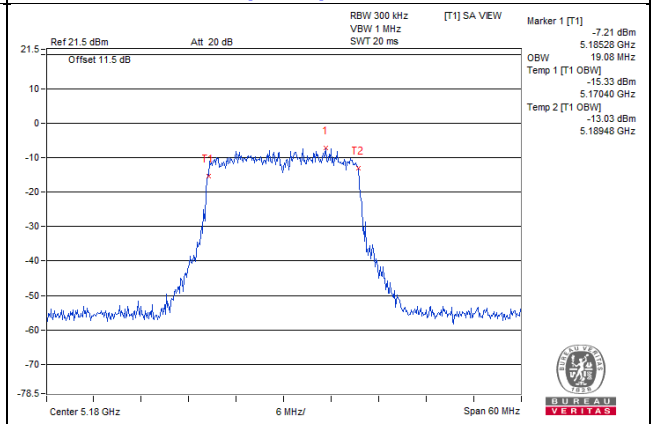
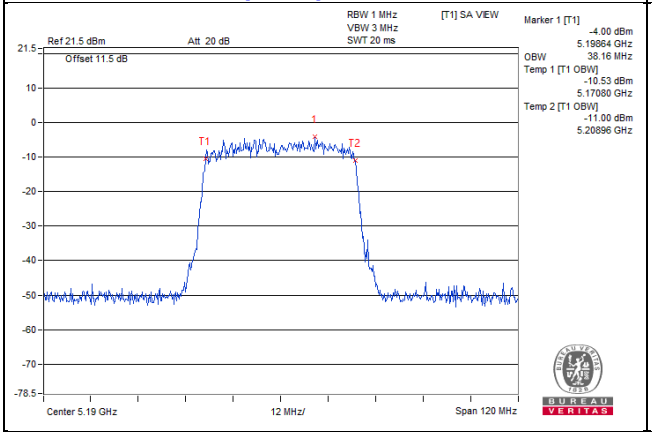
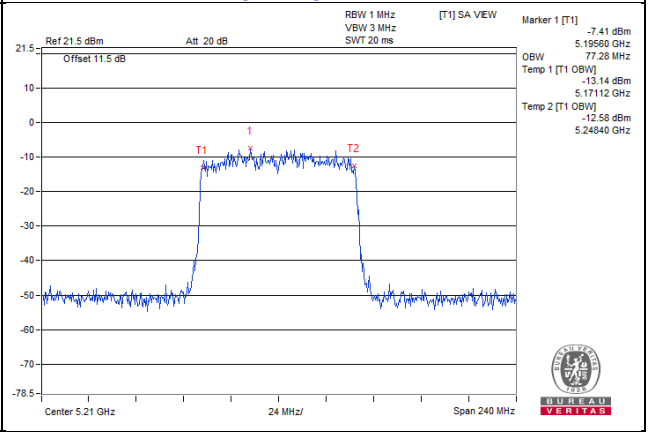
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.08	18.96	18.96	19.08
40	5200	19.08	18.96	19.08	19.08
48	5240	18.96	19.08	18.96	19.08
149	5745	19.08	19.08	19.08	19.08
157	5785	18.96	18.96	18.96	18.96
165	5825	18.96	18.96	19.08	18.96

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	38.16	37.92	38.16
46	5230	38.16	37.92	38.16	38.16
151	5755	37.92	38.16	38.16	38.16
159	5795	38.16	38.16	37.92	38.16

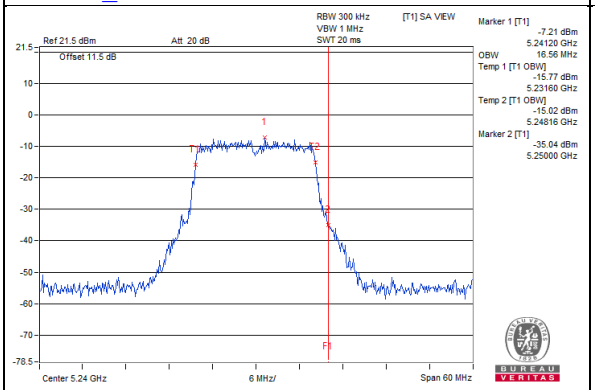
802.11ax (HE80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	77.28	77.28
155	5775	77.28	77.28	77.28	77.28

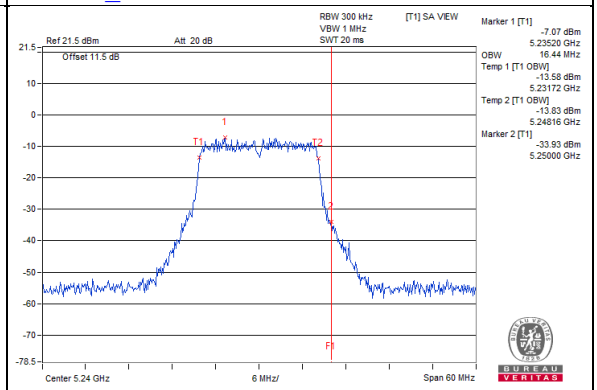
Spectrum Plot of Max. Value	
802.11a_Chain 1 / CH36	**802.11ax (HE20)_Chain 0 / CH36**
	
802.11ax (HE40)_Chain 0 / CH38	**802.11ax (HE80)_Chain 0 / CH42**
	

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

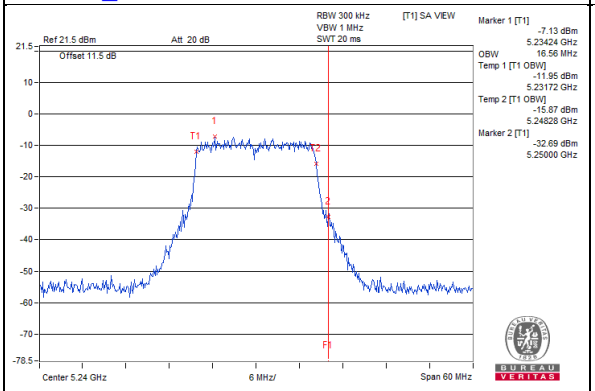
802.11a_Chain 0 / CH48



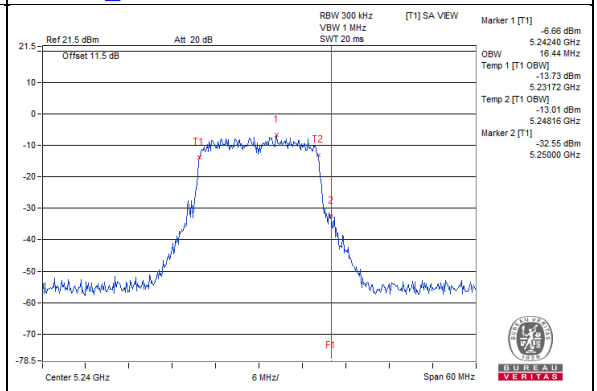
802.11a_Chain 1 / CH48



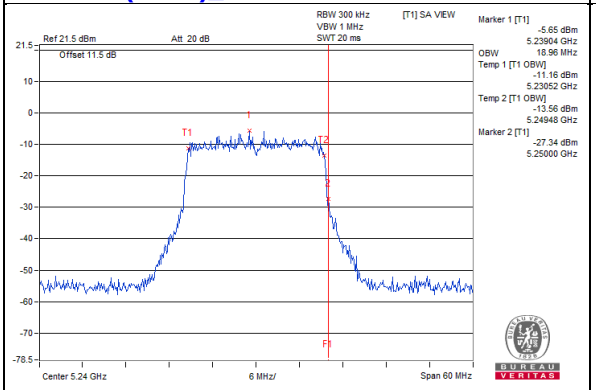
802.11a_Chain 2 / CH48



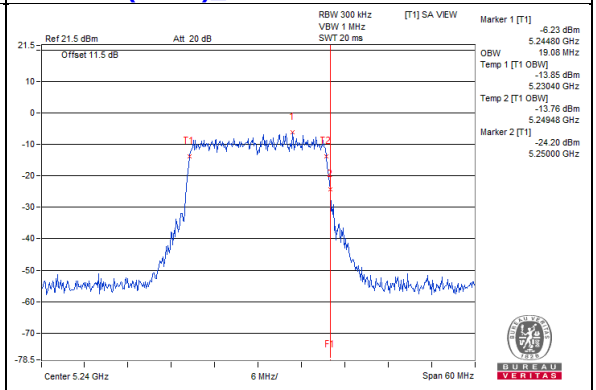
802.11a_Chain 3 / CH48



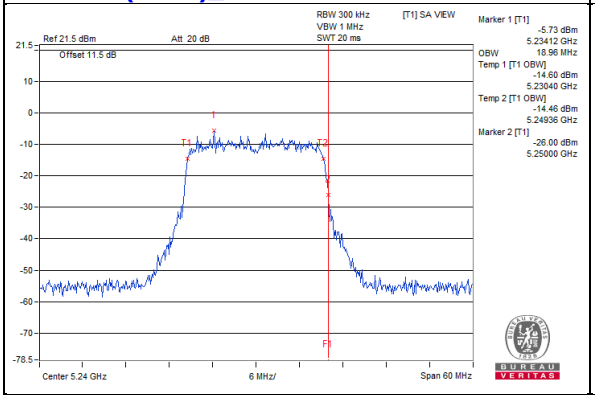
802.11ax (HE20)_Chain 0 / CH48



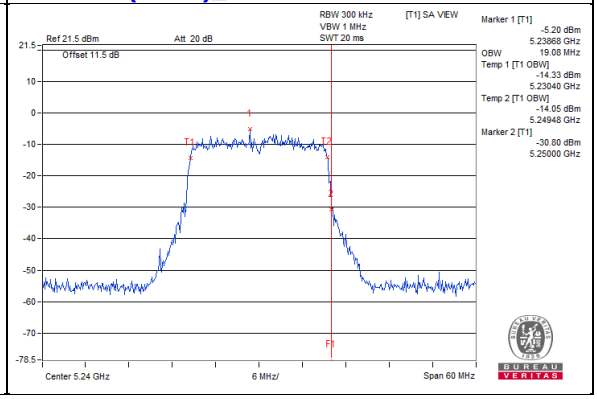
802.11ax (HE20)_Chain 1 / CH48



802.11ax (HE20)_Chain 2 / CH48

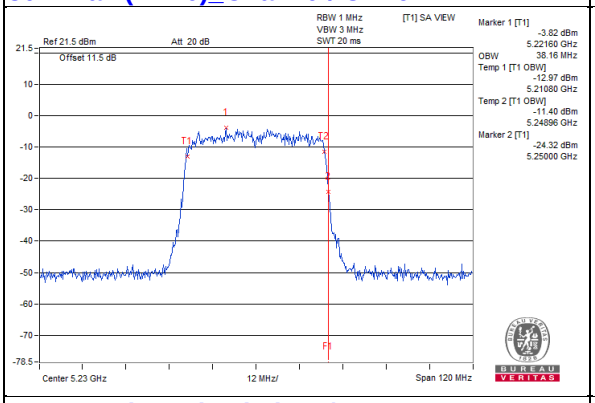


802.11ax (HE20)_Chain 3 / CH48

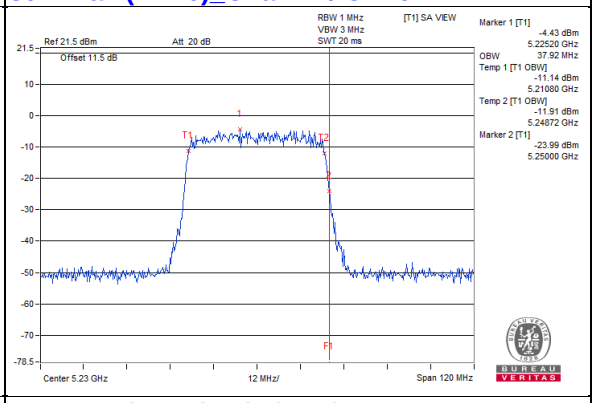


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

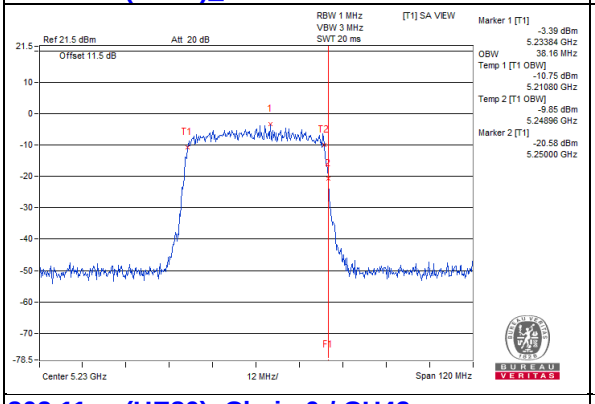
802.11ax (HE40)_Chain 0 / CH46



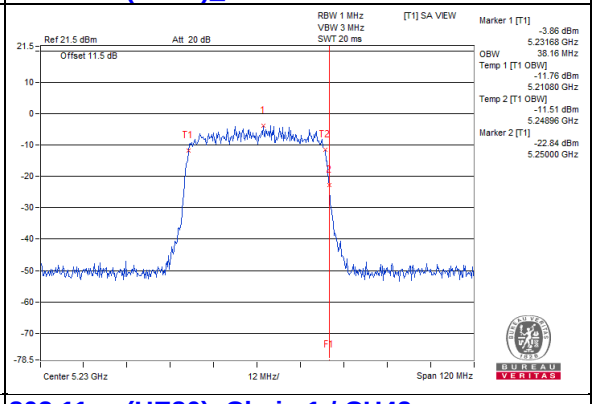
802.11ax (HE40)_Chain 1 / CH46



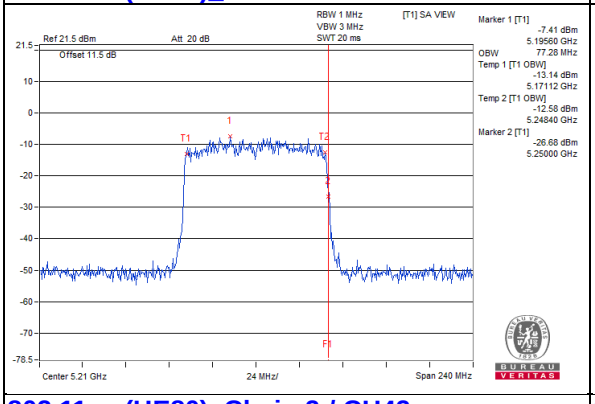
802.11ax (HE40)_Chain 2 / CH46



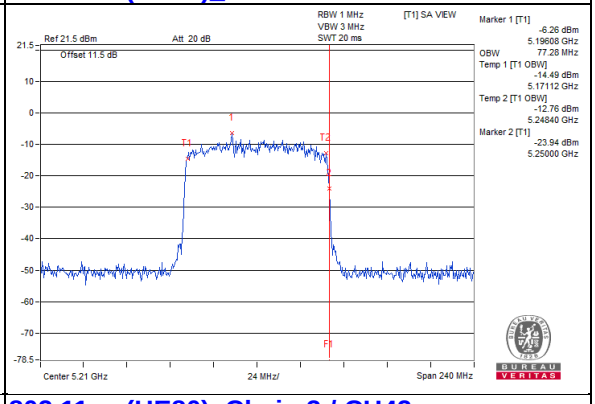
802.11ax (HE40)_Chain 3 / CH46



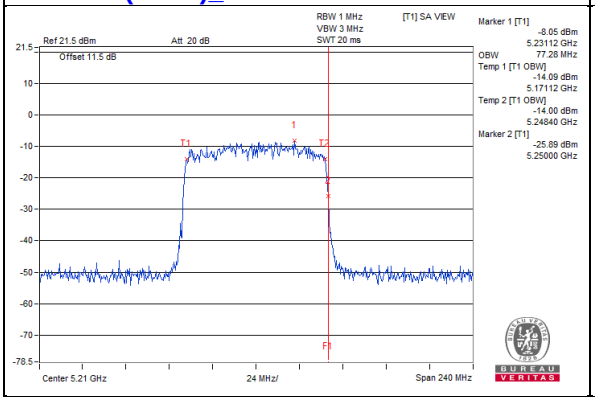
802.11ax (HE80)_Chain 0 / CH42



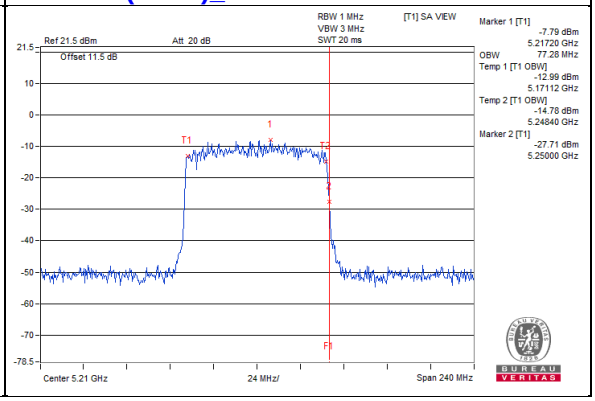
802.11ax (HE80)_Chain 1 / CH42



802.11ax (HE80)_Chain 2 / CH42

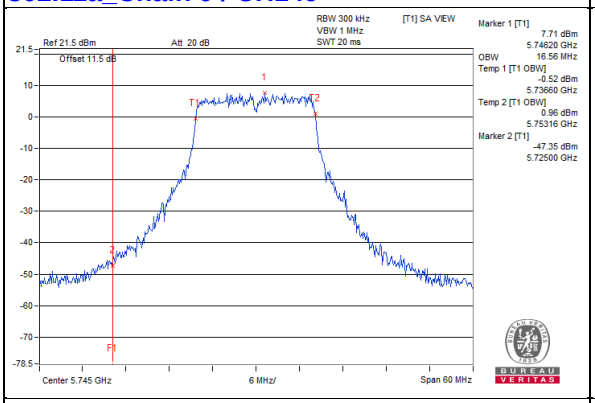


802.11ax (HE80)_Chain 3 / CH42

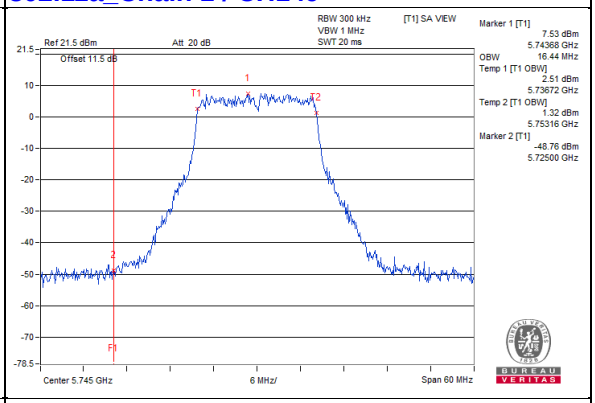


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

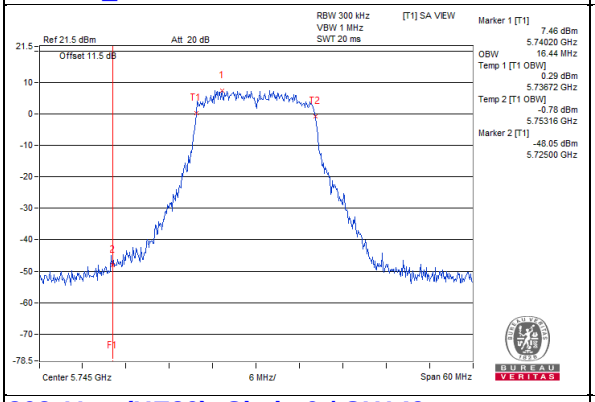
802.11a_Chain 0 / CH149



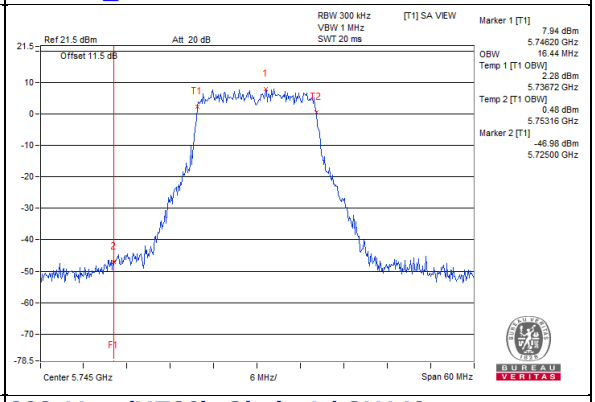
802.11a_Chain 1 / CH149



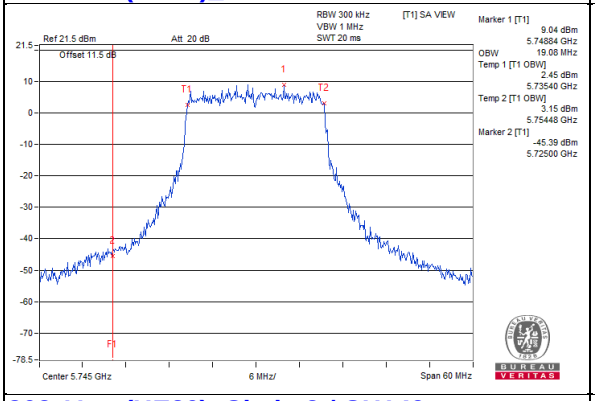
802.11a_Chain 2 / CH149



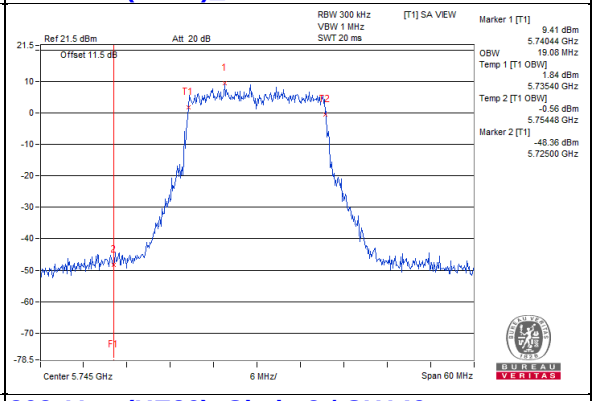
802.11a_Chain 3 / CH149



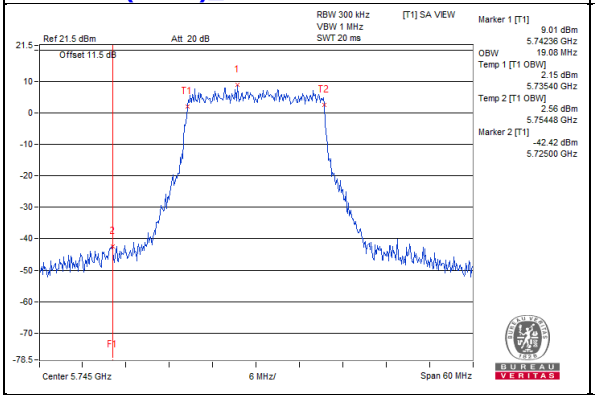
802.11ax (HE20)_Chain 0 / CH149



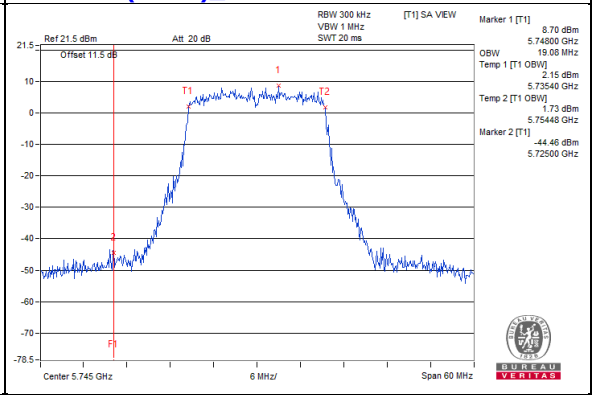
802.11ax (HE20)_Chain 1 / CH149



802.11ax (HE20)_Chain 2 / CH149

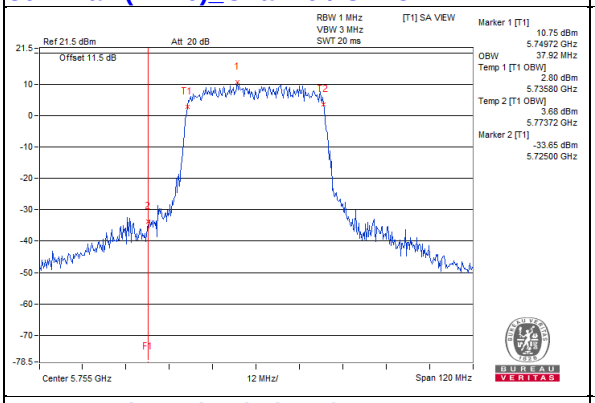


802.11ax (HE20)_Chain 3 / CH149

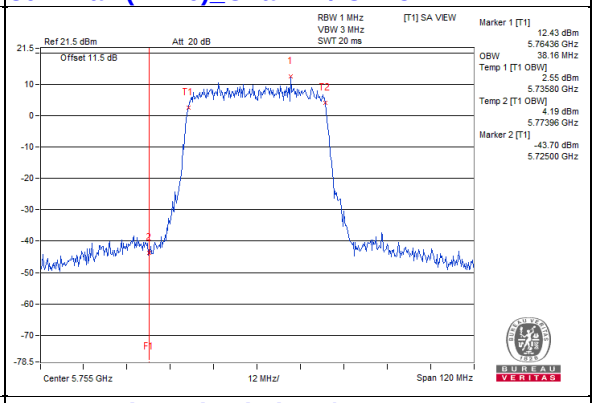


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

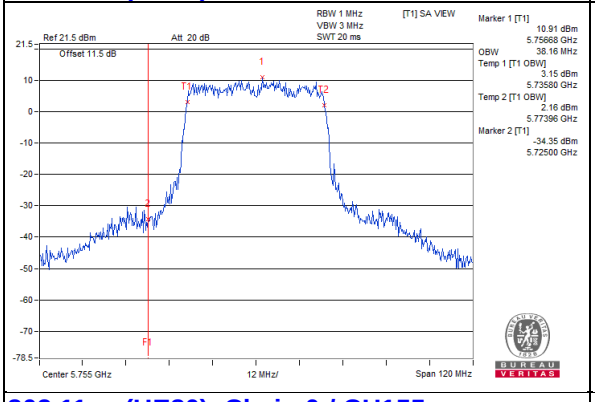
802.11ax (HE40)_Chain 0 / CH151



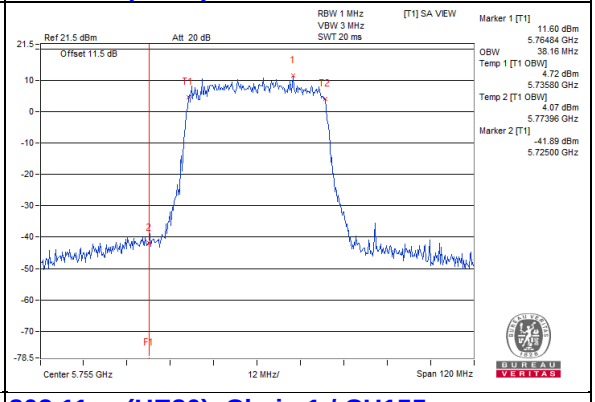
802.11ax (HE40)_Chain 1 / CH151



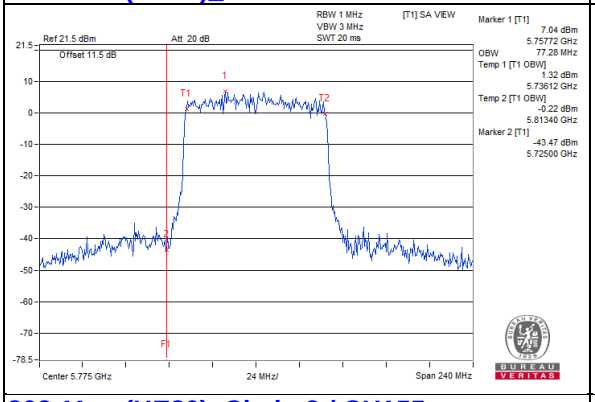
802.11ax (HE40)_Chain 2 / CH151



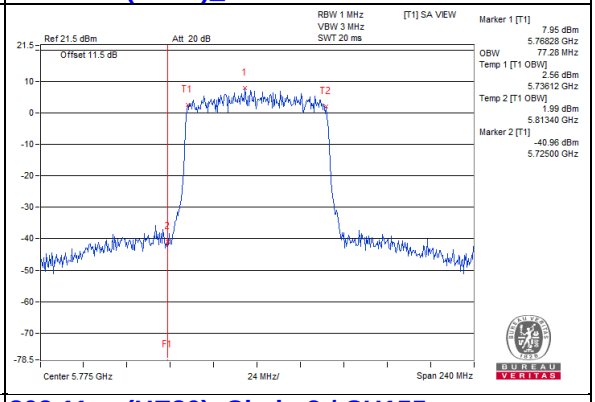
802.11ax (HE40)_Chain 3 / CH151



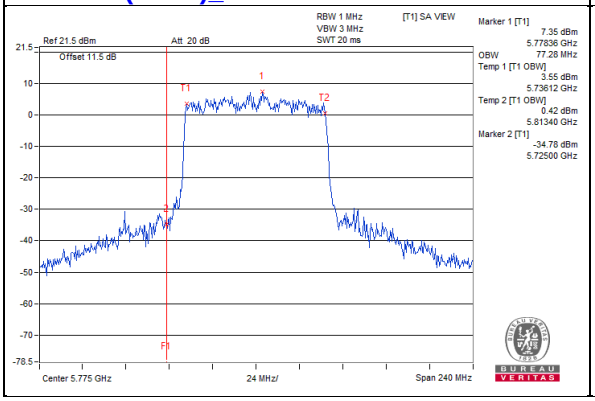
802.11ax (HE80)_Chain 0 / CH155



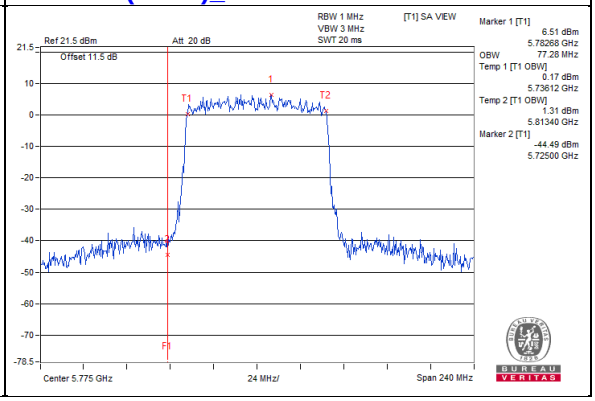
802.11ax (HE80)_Chain 1 / CH155



802.11ax (HE80)_Chain 2 / CH155



802.11ax (HE80)_Chain 3 / CH155



4.4.5 Test Results (Mode 2)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.44	16.44	16.56	16.44
40	5200	16.44	16.44	16.44	16.44
48	5240	16.44	16.56	16.56	16.44
149	5745	16.8	16.56	16.44	16.56
157	5785	16.8	16.44	16.68	16.56
165	5825	16.56	16.44	16.56	16.44

802.11ax (HE20)

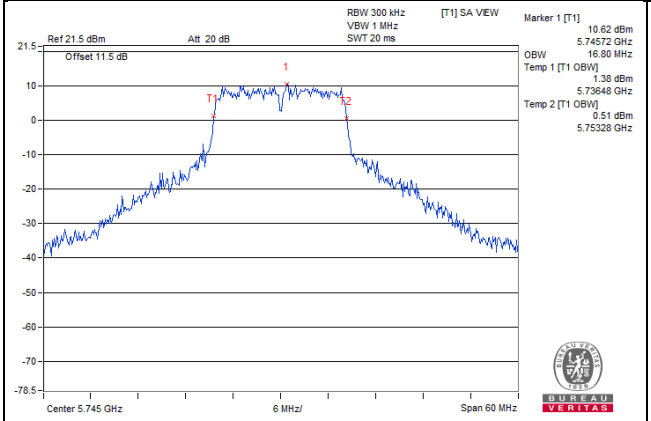
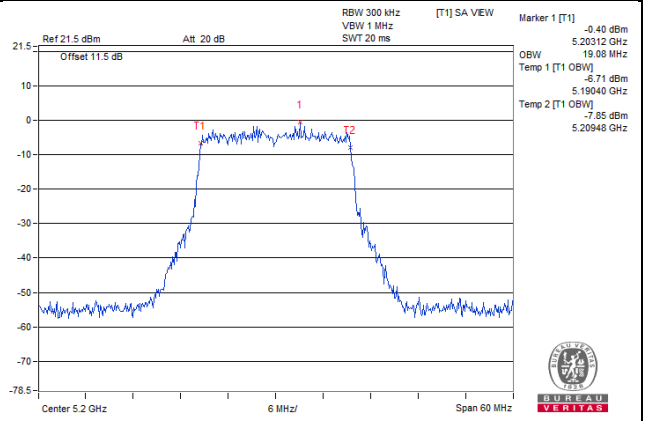
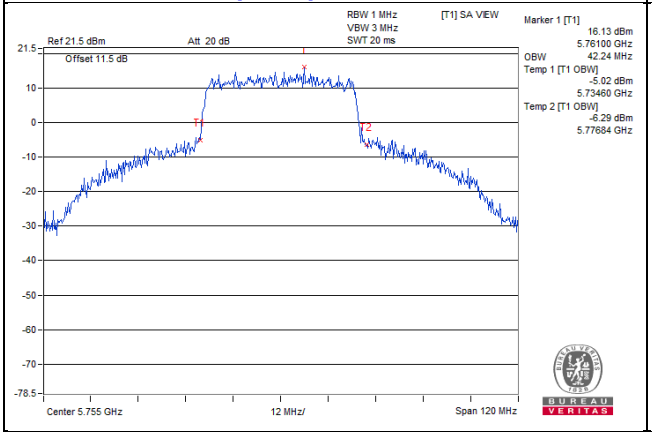
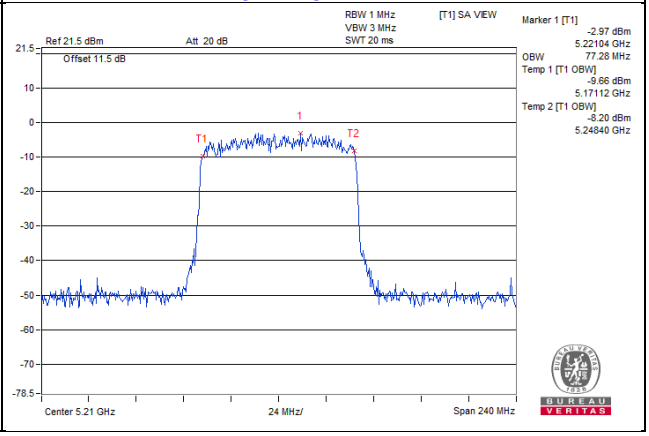
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.96	19.08	18.96	19.08
40	5200	19.08	19.08	18.96	18.96
48	5240	19.08	18.84	19.08	19.08
149	5745	19.08	18.96	19.08	19.08
157	5785	19.08	18.96	19.08	18.96
165	5825	19.08	18.96	19.08	19.08

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	37.92	37.92	37.92
46	5230	38.16	37.92	38.16	38.16
151	5755	39.36	38.64	39.36	42.24
159	5795	38.64	38.64	39.6	42

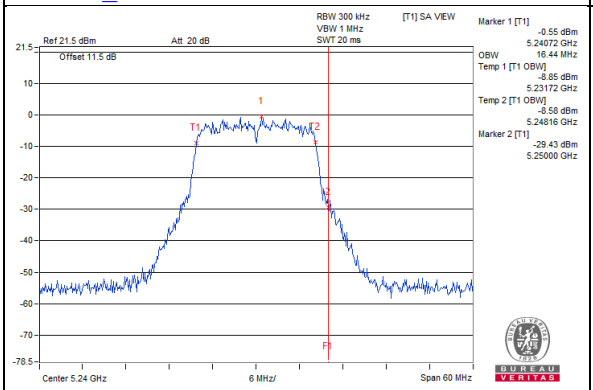
802.11ax (HE80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	77.28	77.28
155	5775	77.28	77.28	77.28	77.28

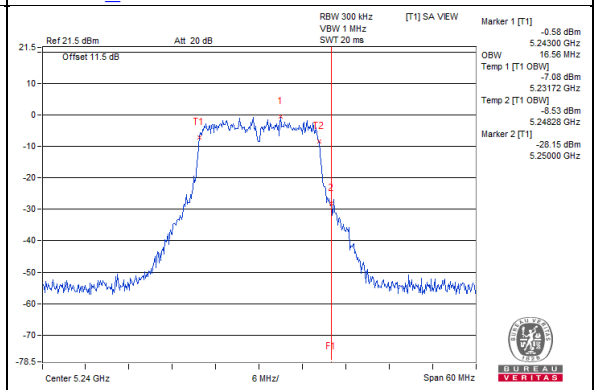
Spectrum Plot of Max. Value	
802.11a_Chain 0 / CH149	**802.11ax (HE20)_Chain 0 / CH40**
	
802.11ax (HE40)_Chain 3 / CH151	**802.11ax (HE80)_Chain 0 / CH42**
	

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

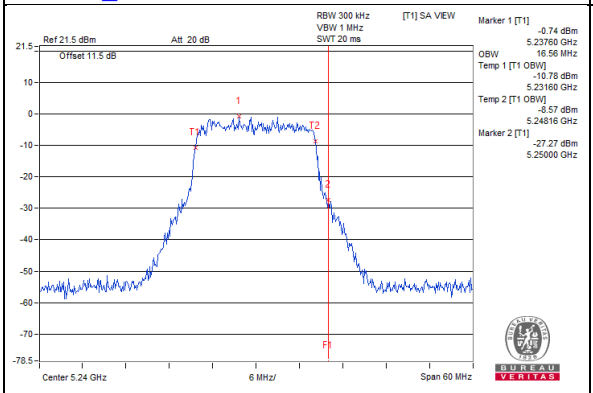
802.11a_Chain 0 / CH48



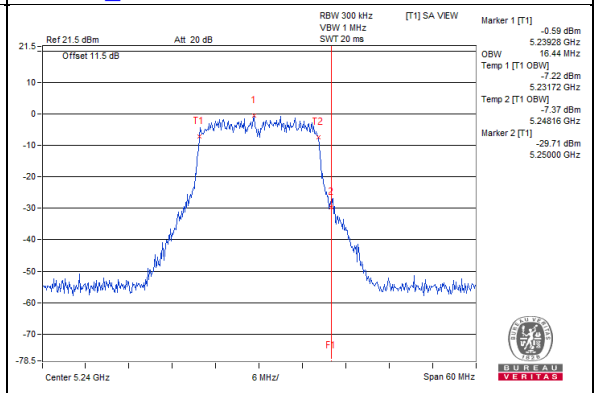
802.11a_Chain 1 / CH48



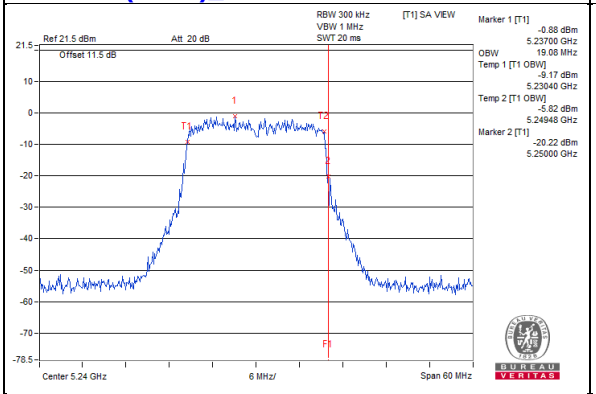
802.11a_Chain 2 / CH48



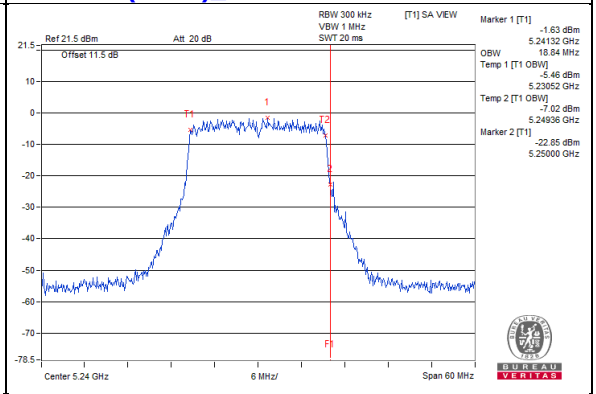
802.11a_Chain 3 / CH48



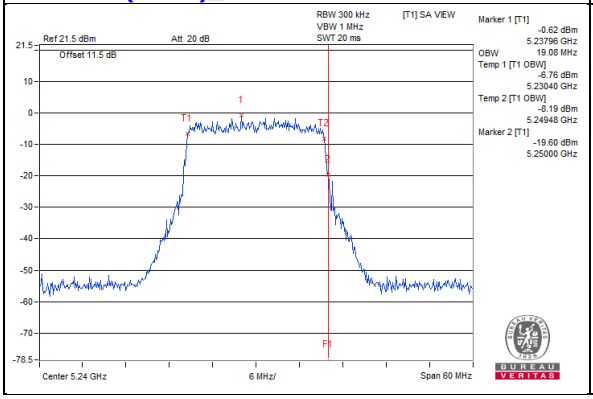
802.11ax (HE20)_Chain 0 / CH48



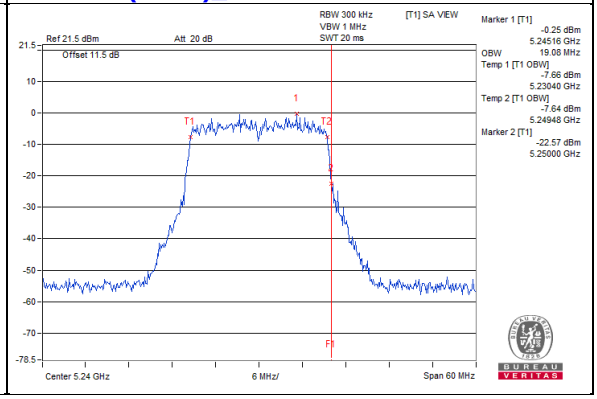
802.11ax (HE20)_Chain 1 / CH48



802.11ax (HE20)_Chain 2 / CH48

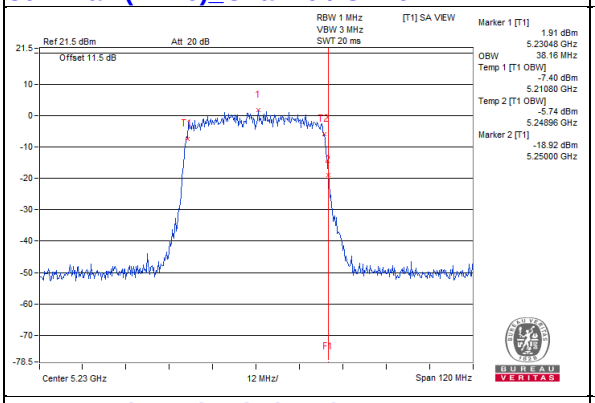


802.11ax (HE20)_Chain 3 / CH48

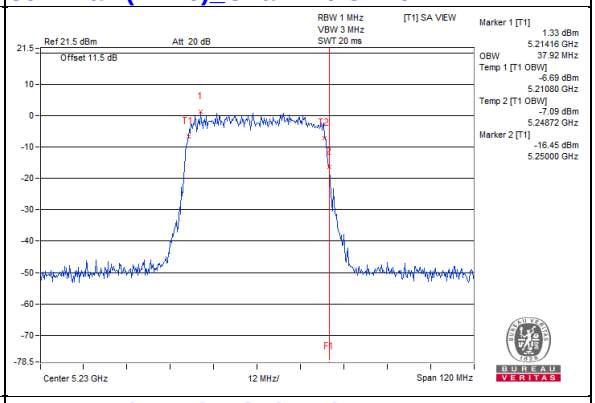


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

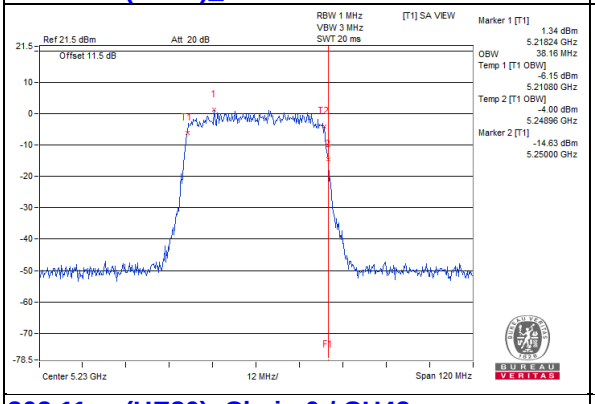
802.11ax (HE40)_Chain 0 / CH46



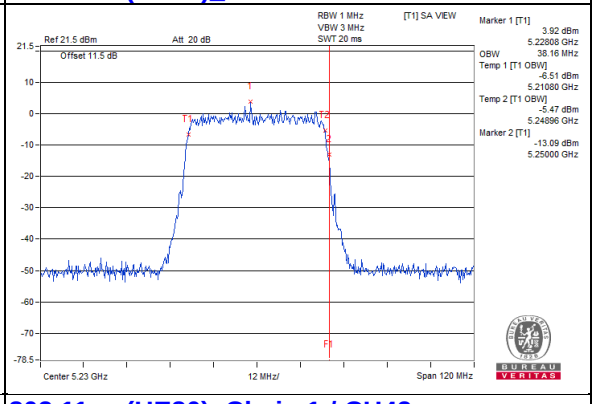
802.11ax (HE40)_Chain 1 / CH46



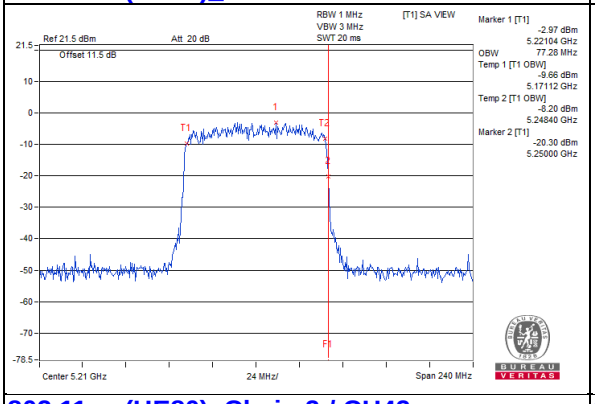
802.11ax (HE40)_Chain 2 / CH46



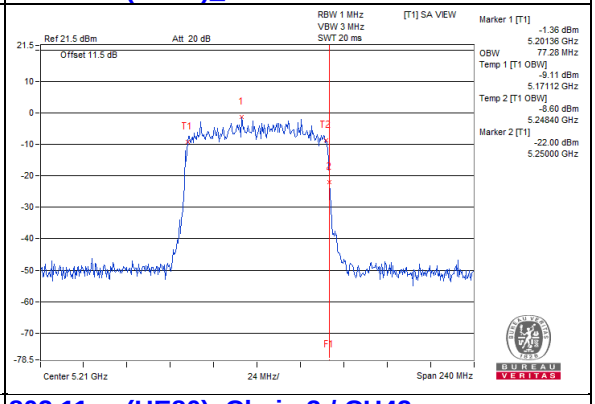
802.11ax (HE40)_Chain 3 / CH46



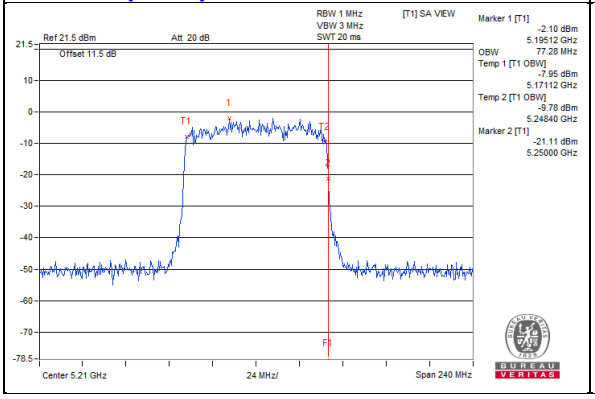
802.11ax (HE80)_Chain 0 / CH42



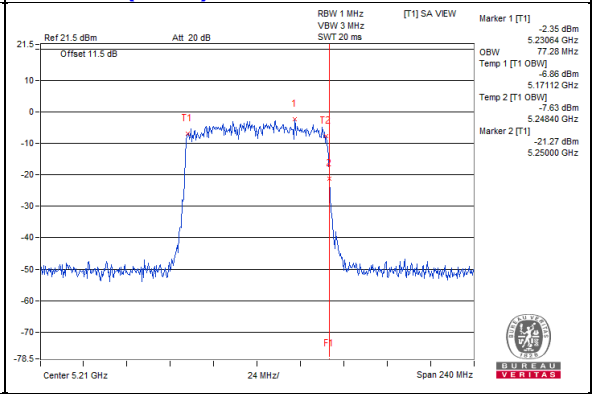
802.11ax (HE80)_Chain 1 / CH42



802.11ax (HE80)_Chain 2 / CH42

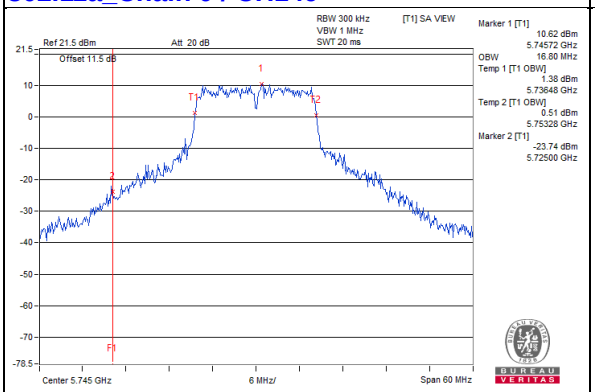


802.11ax (HE80)_Chain 3 / CH42

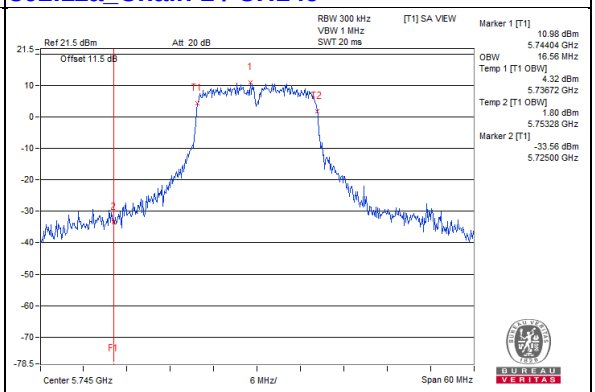


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

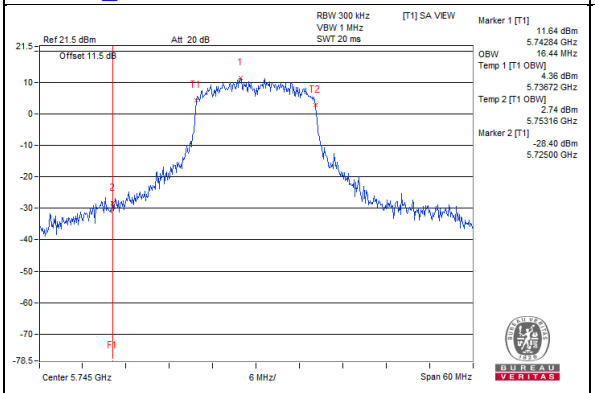
802.11a_Chain 0 / CH149



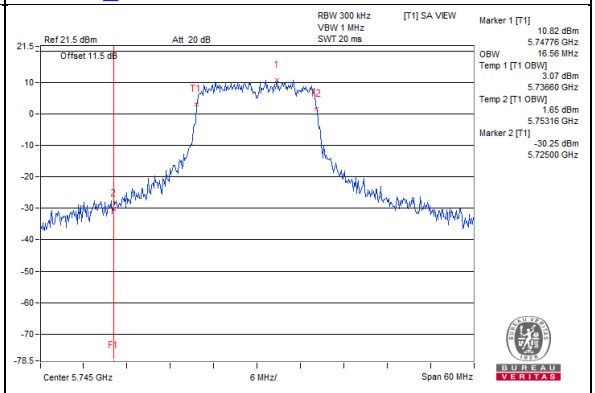
802.11a_Chain 1 / CH149



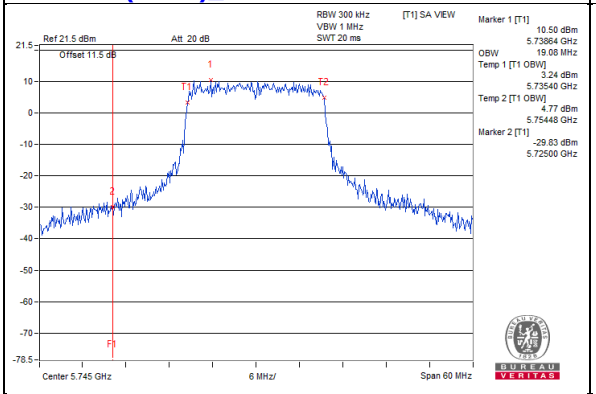
802.11a_Chain 2 / CH149



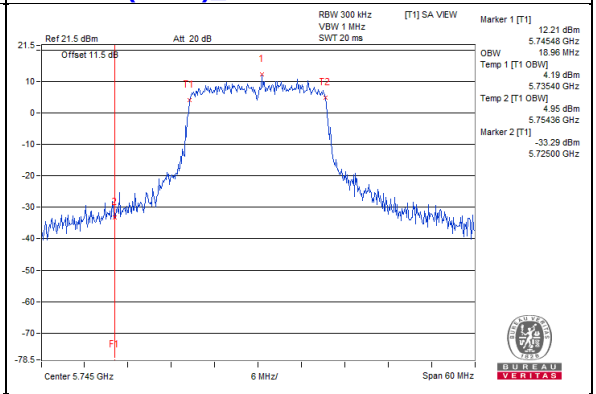
802.11a_Chain 3 / CH149



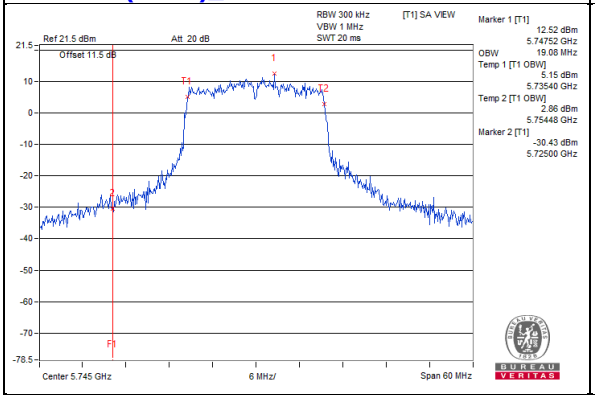
802.11ax (HE20)_Chain 0 / CH149



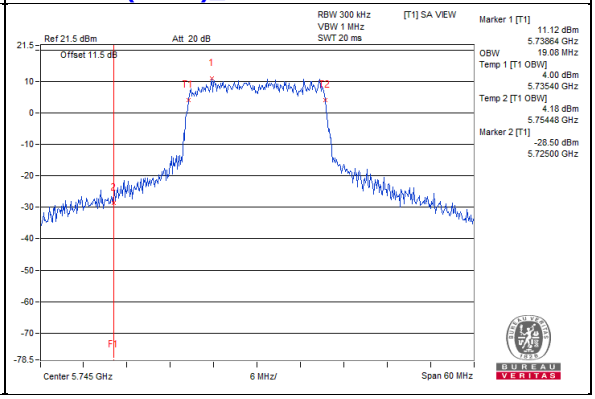
802.11ax (HE20)_Chain 1 / CH149



802.11ax (HE20)_Chain 2 / CH149

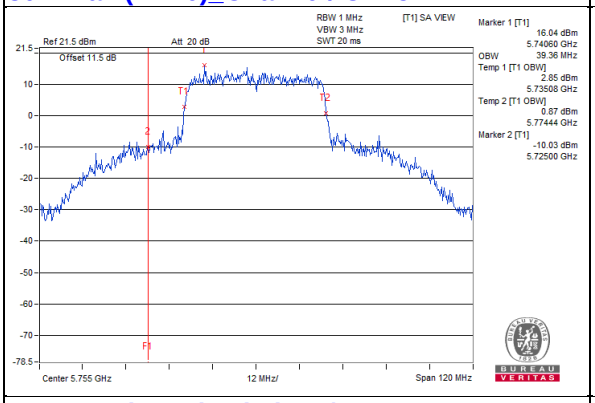


802.11ax (HE20)_Chain 3 / CH149

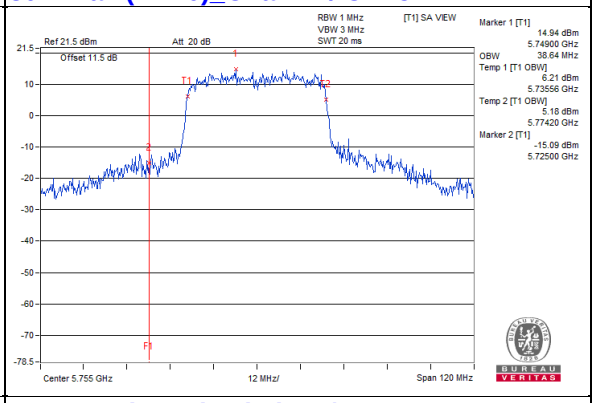


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

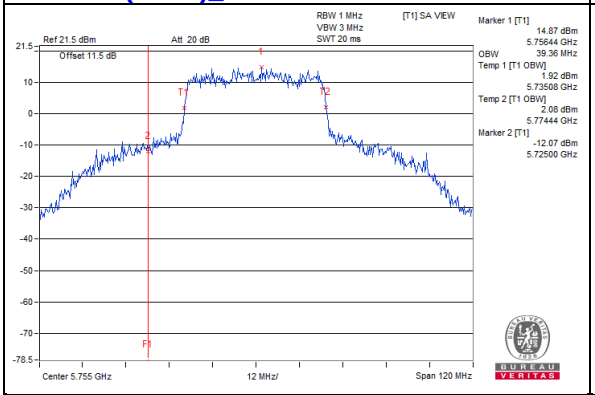
802.11ax (HE40)_Chain 0 / CH151



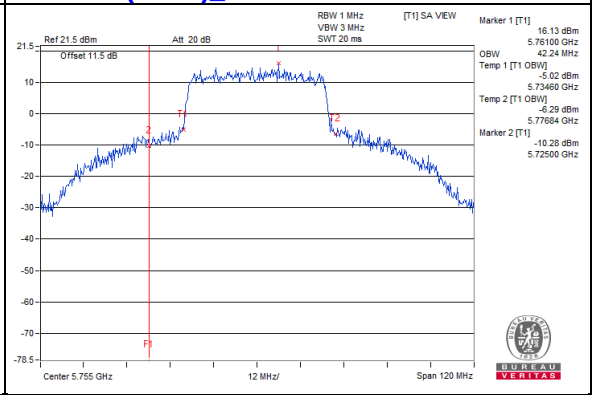
802.11ax (HE40)_Chain 1 / CH151



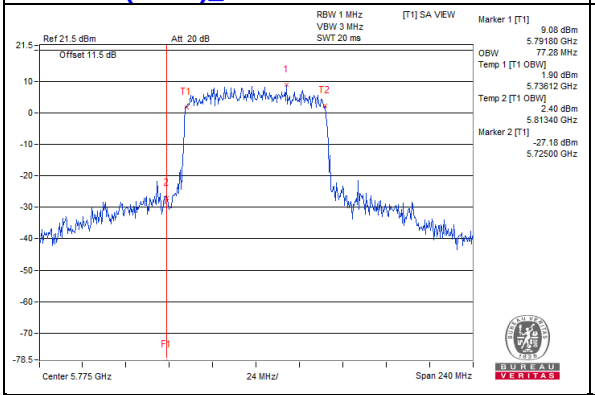
802.11ax (HE40)_Chain 2 / CH151



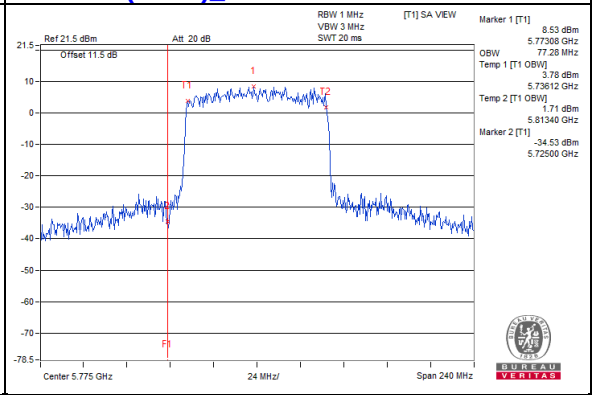
802.11ax (HE40)_Chain 3 / CH151



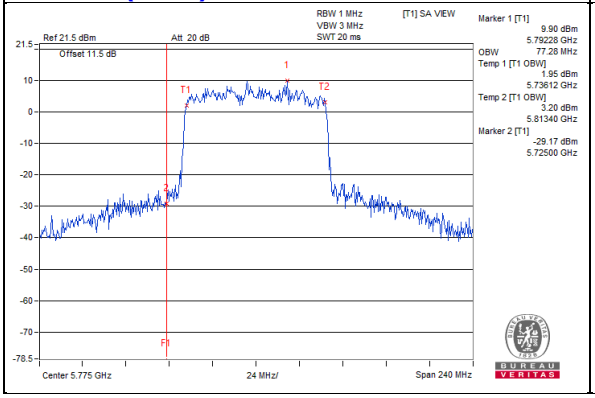
802.11ax (HE80)_Chain 0 / CH155



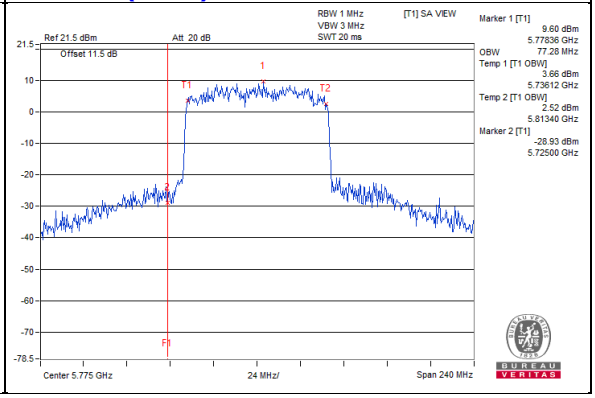
802.11ax (HE80)_Chain 1 / CH155



802.11ax (HE80)_Chain 2 / CH155



802.11ax (HE80)_Chain 3 / CH155



4.4.6 Test Results (Mode 3)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.56	16.56	16.44	16.44
40	5200	16.44	16.44	16.56	16.44
48	5240	16.44	16.56	16.44	16.44
149	5745	16.44	16.44	16.68	16.44
157	5785	16.44	16.56	16.32	16.56
165	5825	16.56	16.44	16.68	16.56

802.11ax (HE20)

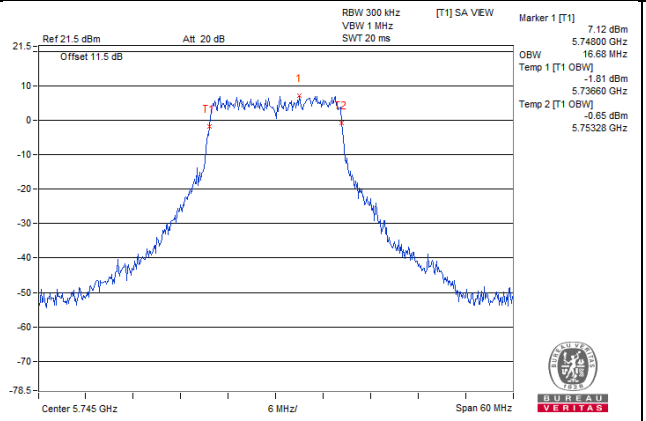
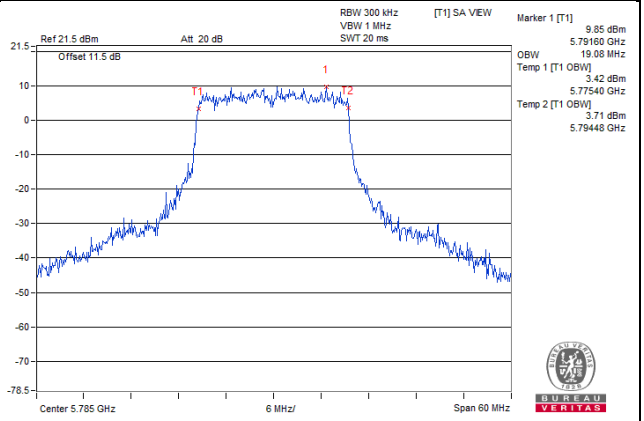
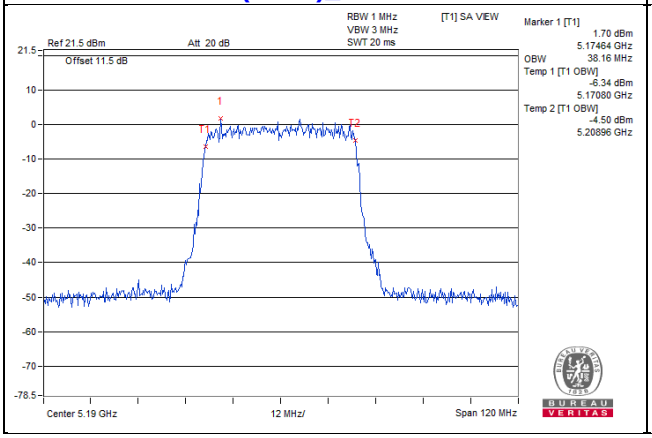
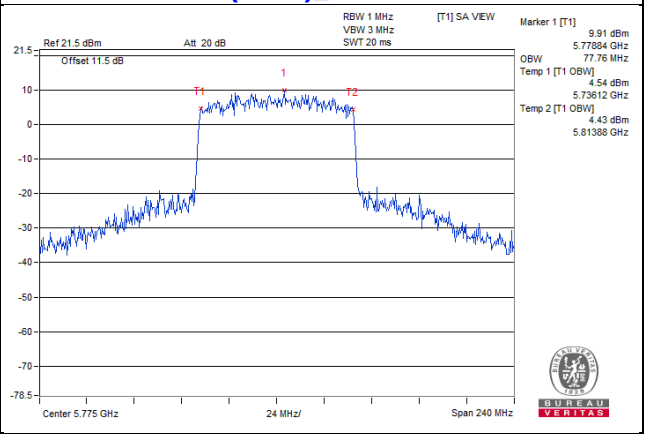
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.64	18.96	19.08	19.08
40	5200	17.76	18.96	18.96	19.08
48	5240	17.64	19.08	18.96	19.08
149	5745	18.96	18.84	19.08	19.08
157	5785	19.08	19.08	19.08	18.96
165	5825	19.08	19.08	19.08	19.08

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	38.16	38.16	37.92
46	5230	38.16	37.92	38.16	38.16
151	5755	38.16	38.16	38.16	38.16
159	5795	38.16	38.16	38.16	37.92

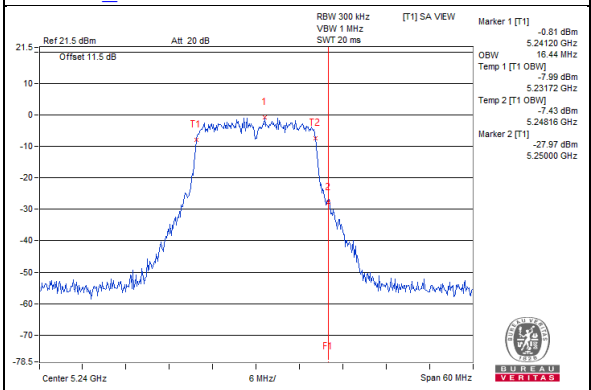
802.11ax (HE80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	77.28	77.28
155	5775	77.28	77.28	77.28	77.76

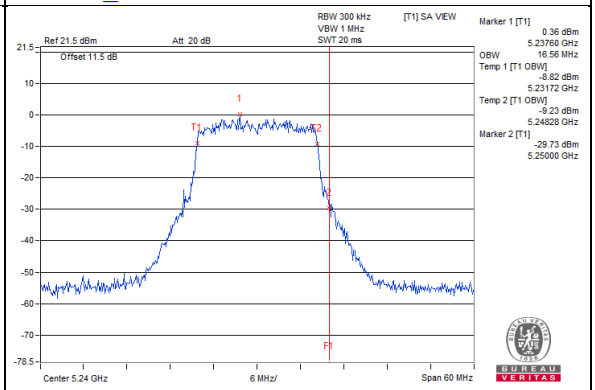
Spectrum Plot of Max. Value	
802.11a_Chain 2 / CH149	**802.11ax (HE20)_Chain 0 / CH157**
	
802.11ax (HE40)_Chain 0 / CH38	**802.11ax (HE80)_Chain 3 / CH155**
	

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

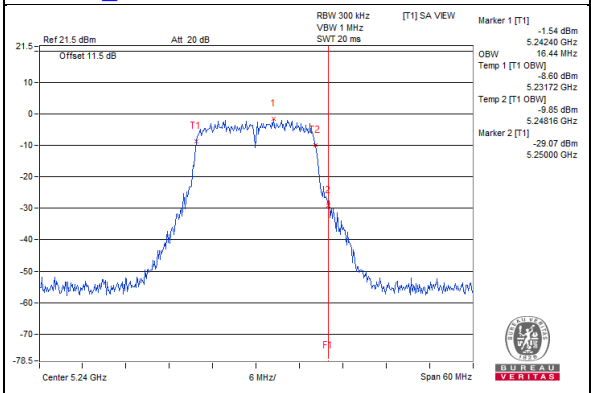
802.11a_Chain 0 / CH48



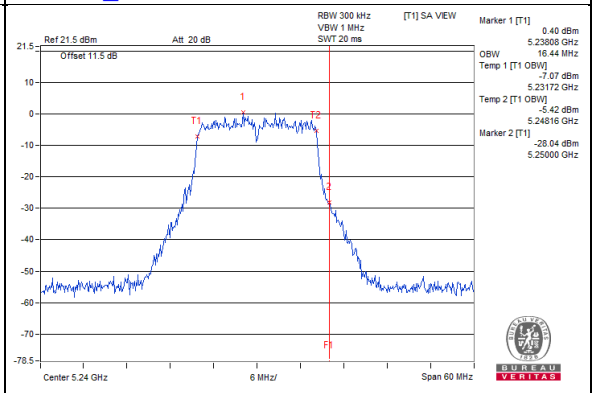
802.11a_Chain 1 / CH48



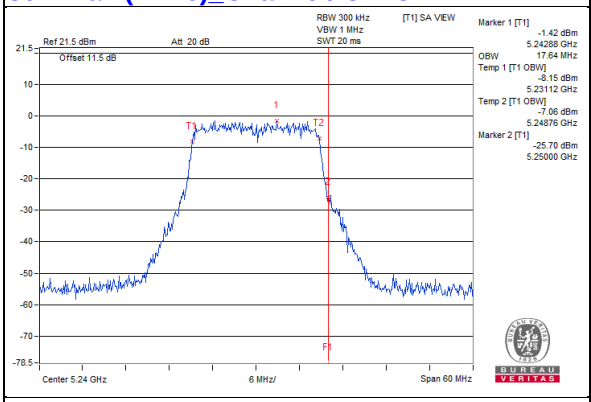
802.11a_Chain 2 / CH48



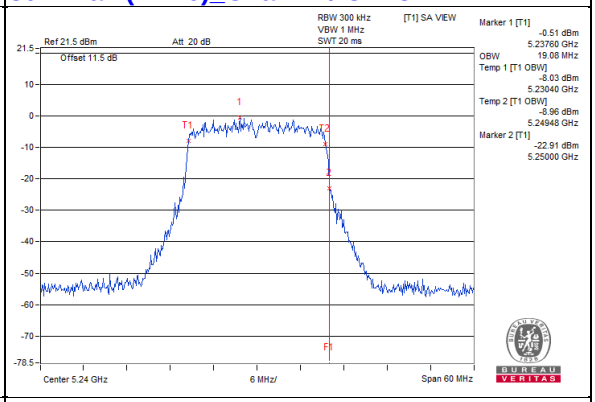
802.11a_Chain 3 / CH48



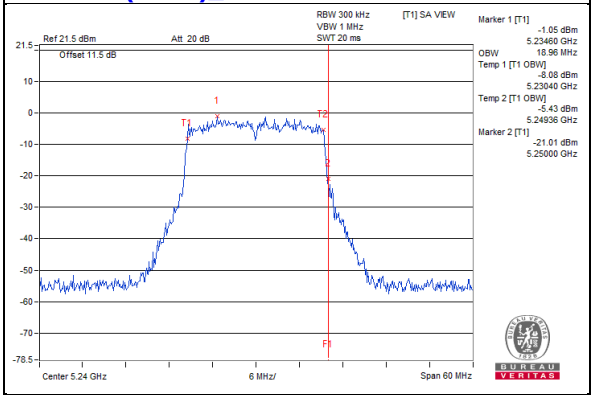
802.11ax (HE20)_Chain 0 / CH48



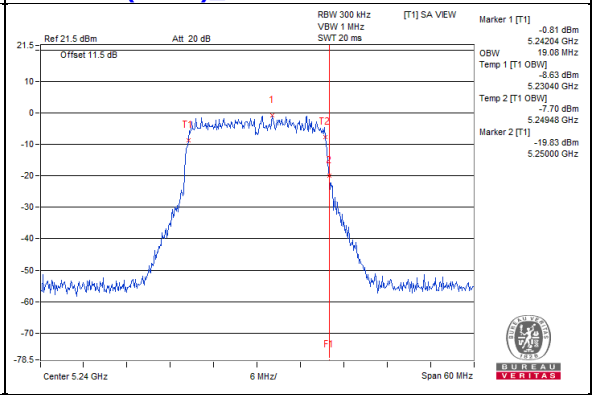
802.11ax (HE20)_Chain 1 / CH48



802.11ax (HE20)_Chain 2 / CH48

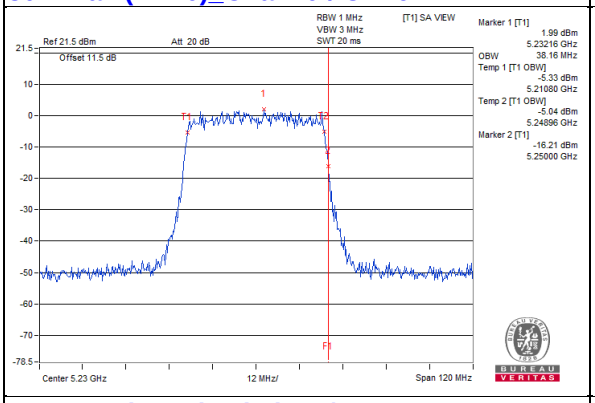


802.11ax (HE20)_Chain 3 / CH48

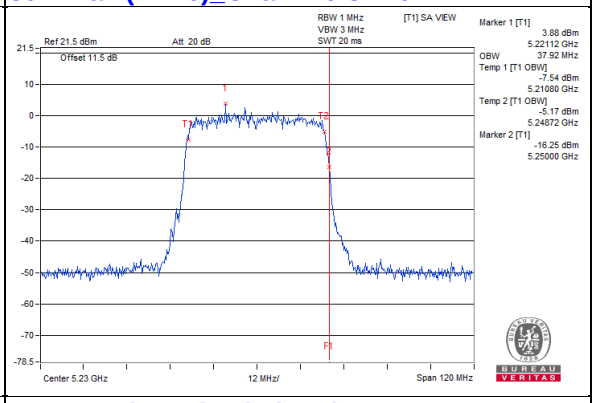


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

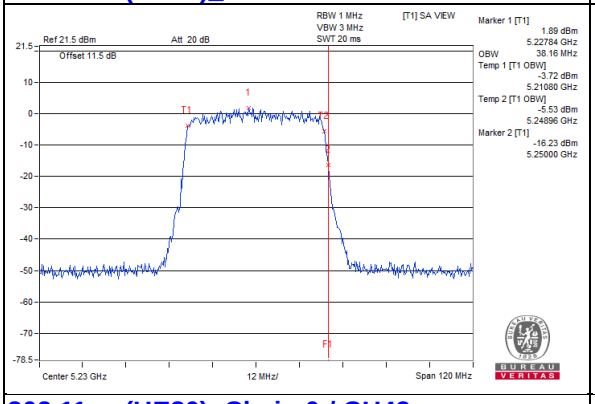
802.11ax (HE40)_Chain 0 / CH46



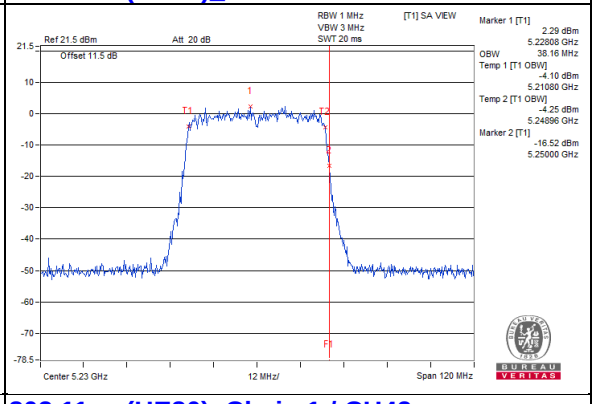
802.11ax (HE40)_Chain 1 / CH46



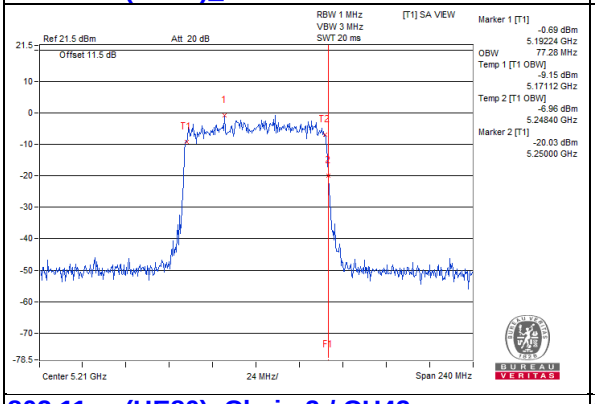
802.11ax (HE40)_Chain 2 / CH46



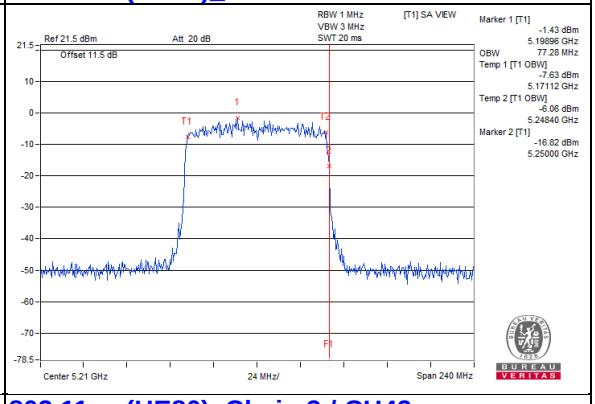
802.11ax (HE40)_Chain 3 / CH46



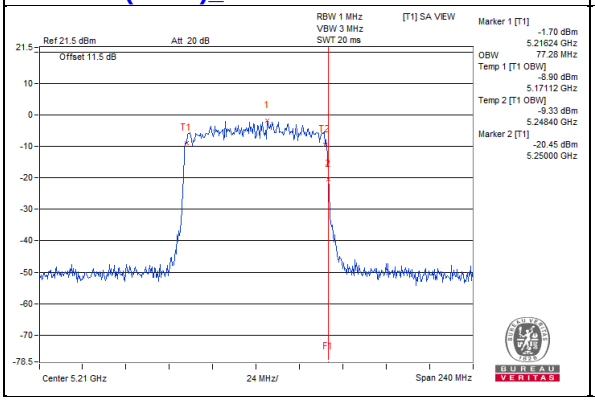
802.11ax (HE80)_Chain 0 / CH42



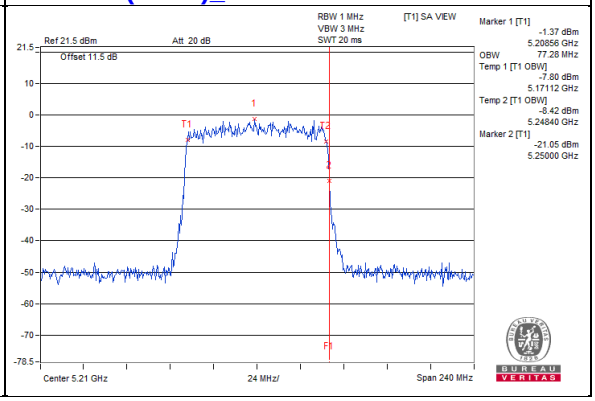
802.11ax (HE80)_Chain 1 / CH42



802.11ax (HE80)_Chain 2 / CH42

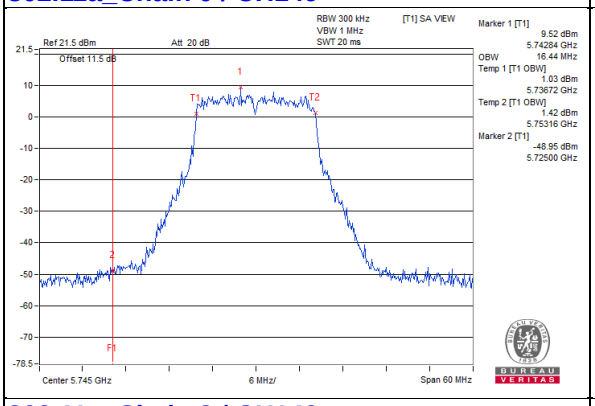


802.11ax (HE80)_Chain 3 / CH42

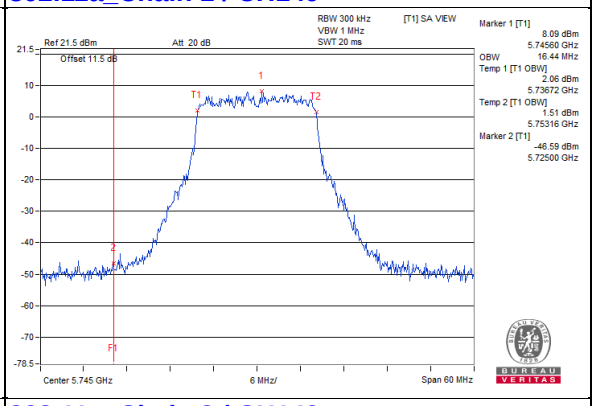


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

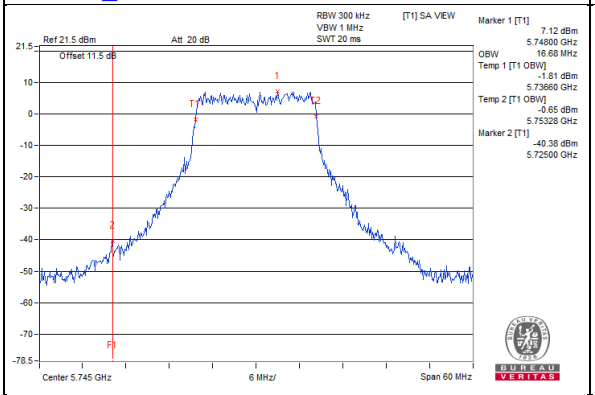
802.11a_Chain 0 / CH149



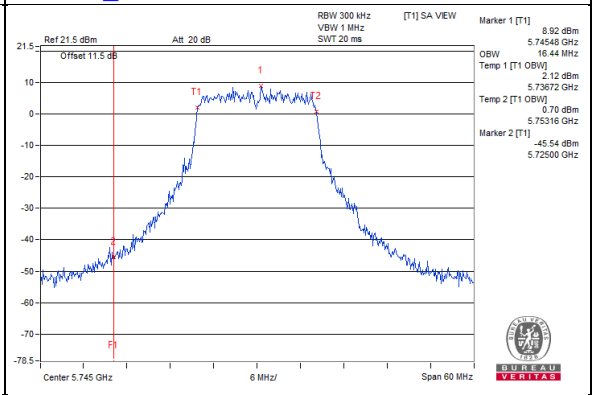
802.11a_Chain 1 / CH149



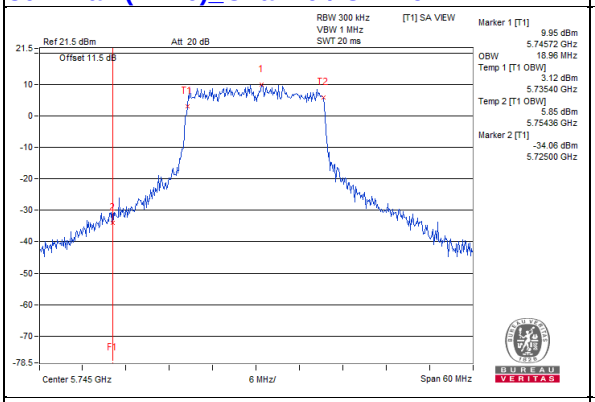
802.11a_Chain 2 / CH149



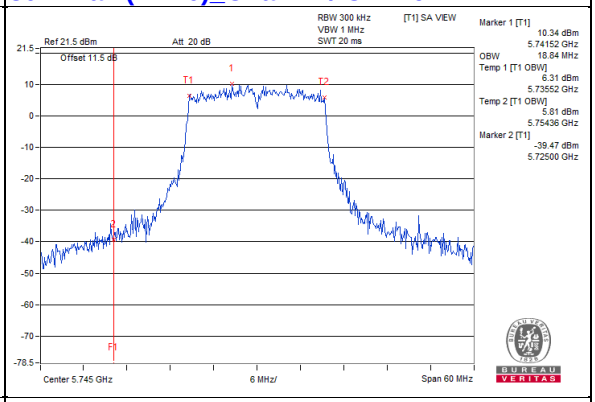
802.11a_Chain 3 / CH149



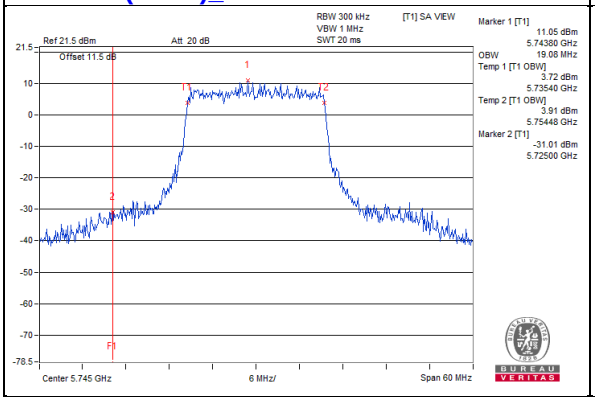
802.11ax (HE20)_Chain 0 / CH149



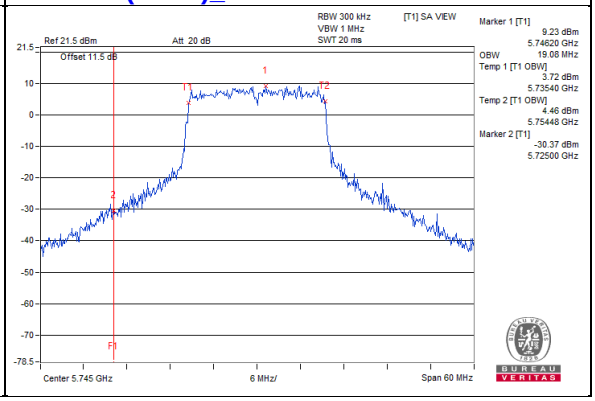
802.11ax (HE20)_Chain 1 / CH149



802.11ax (HE20)_Chain 2 / CH149

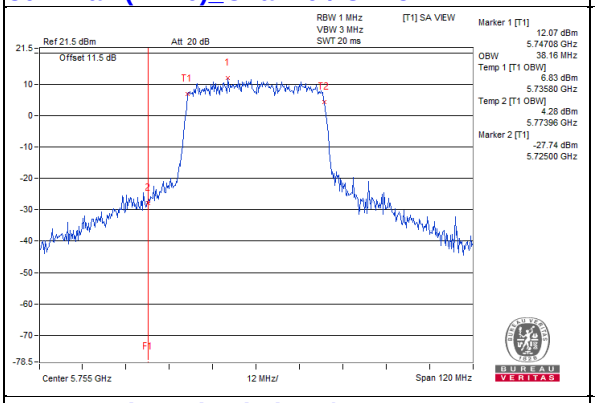


802.11ax (HE20)_Chain 3 / CH149

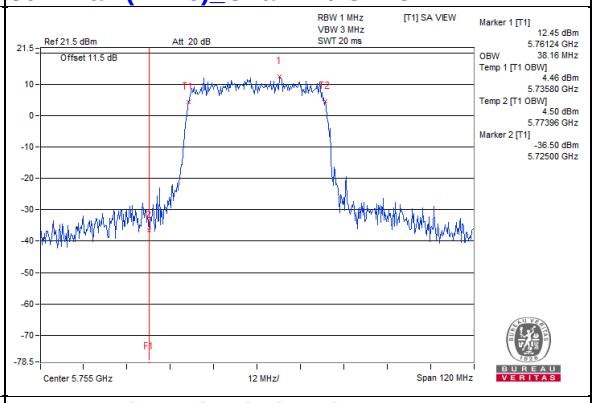


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

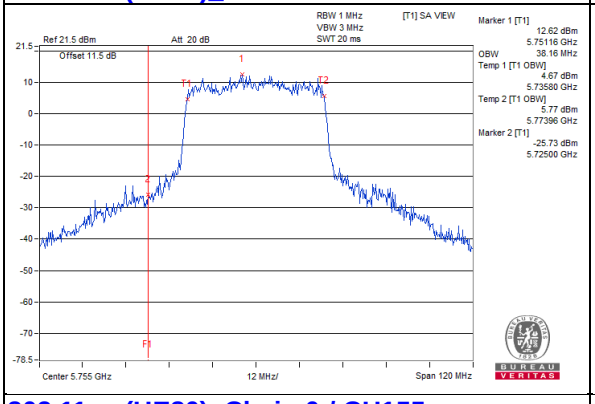
802.11ax (HE40)_Chain 0 / CH151



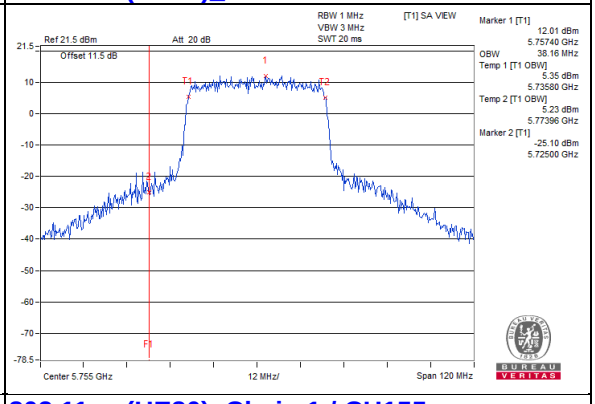
802.11ax (HE40)_Chain 1 / CH151



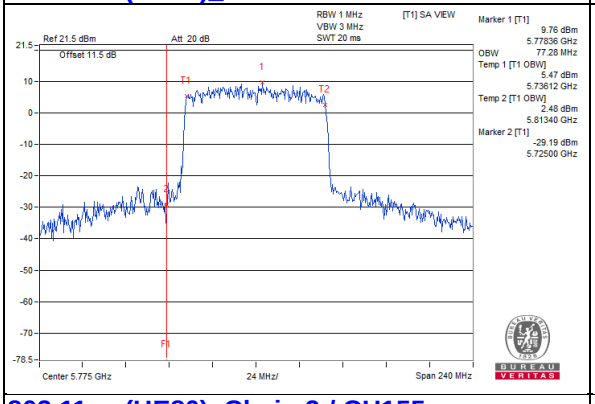
802.11ax (HE40)_Chain 2 / CH151



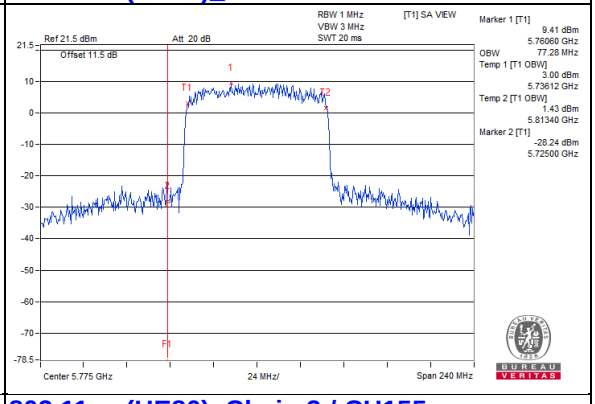
802.11ax (HE40)_Chain 3 / CH151



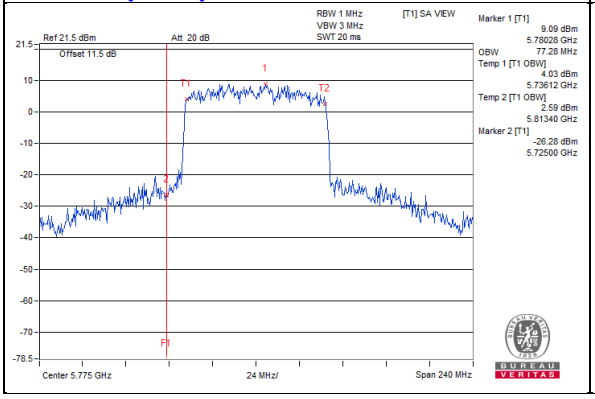
802.11ax (HE80)_Chain 0 / CH155



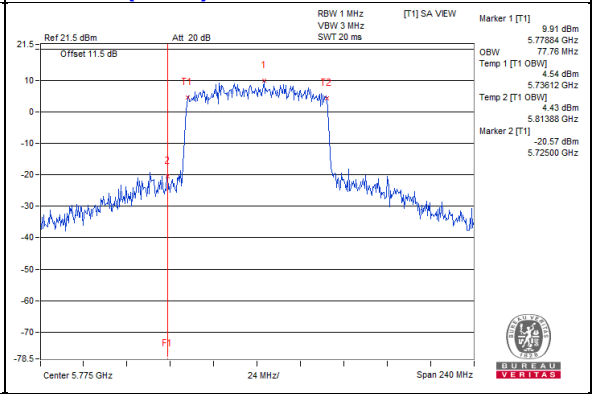
802.11ax (HE80)_Chain 1 / CH155



802.11ax (HE80)_Chain 2 / CH155



802.11ax (HE80)_Chain 3 / CH155



4.4.7 Test Results (Mode 4)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.44	16.56	16.44	16.56
40	5200	16.44	16.56	16.56	16.44
48	5240	16.56	16.56	16.56	16.44
149	5745	16.68	16.44	16.44	16.44
157	5785	16.44	16.44	16.44	16.44
165	5825	16.56	16.44	16.68	16.44

802.11ax (HE20)

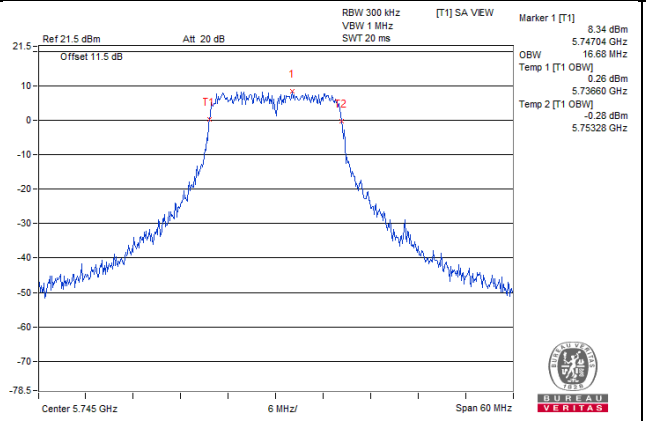
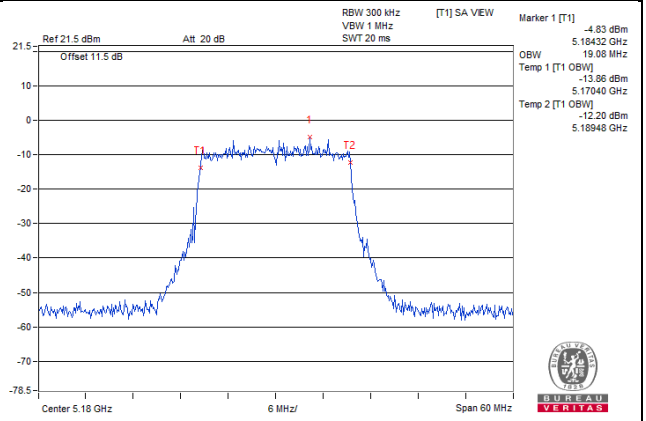
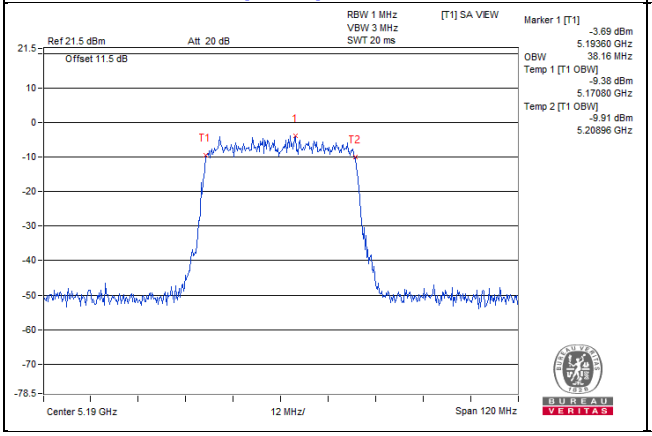
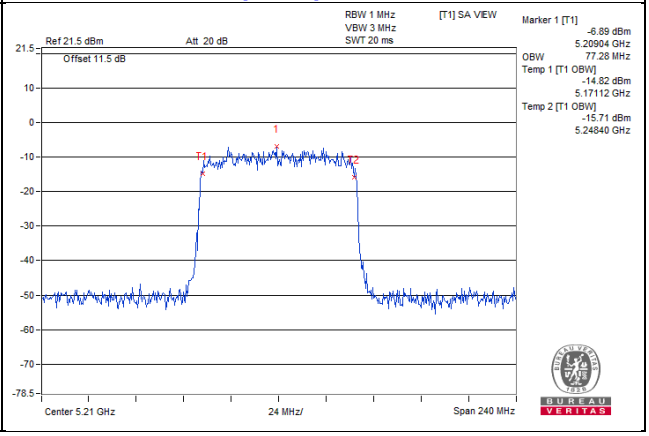
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.08	18.96	18.96	19.08
40	5200	18.96	18.96	18.96	18.84
48	5240	19.08	19.08	18.96	18.84
149	5745	18.84	18.84	19.08	19.08
157	5785	19.08	19.08	18.84	18.96
165	5825	18.96	18.96	18.96	18.84

802.11ax (HE40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	38.16	38.16	38.16
46	5230	37.92	37.92	38.16	38.16
151	5755	37.92	38.16	37.92	38.16
159	5795	37.92	38.16	38.16	37.92

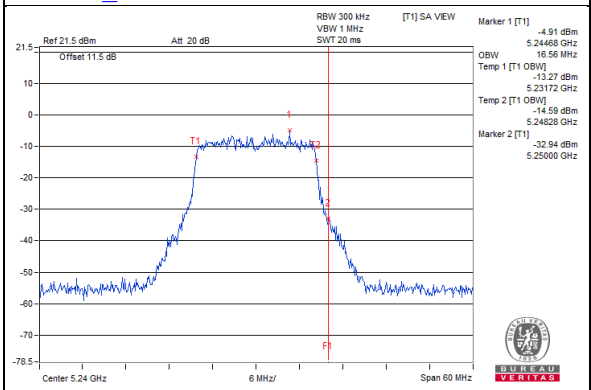
802.11ax (HE80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	77.28	77.28
155	5775	77.28	77.28	76.8	77.28

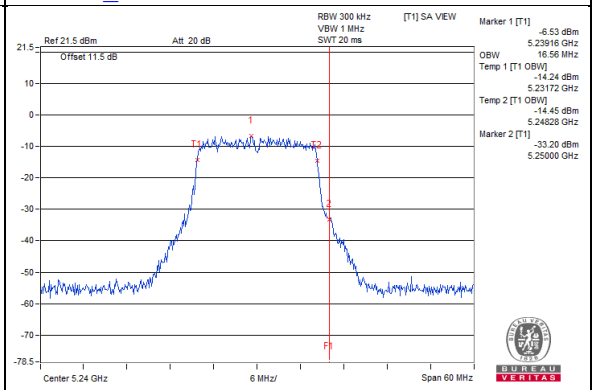
Spectrum Plot of Max. Value	
802.11a_Chain 0 / CH149	**802.11ax (HE20)_Chain 0 / CH36**
	
802.11ax (HE40)_Chain 0 / CH38	**802.11ax (HE80)_Chain 0 / CH42**
	

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

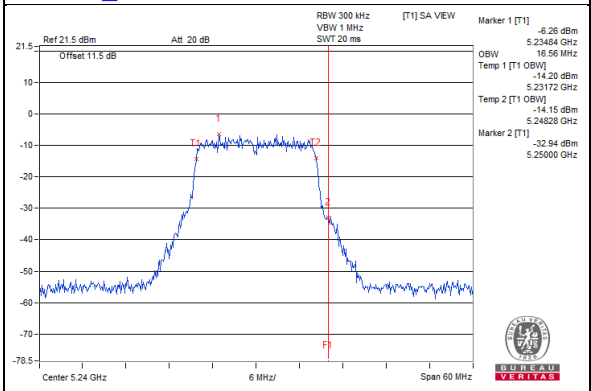
802.11a_Chain 0 / CH48



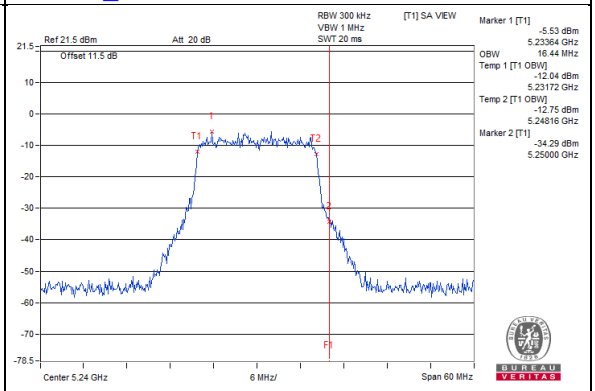
802.11a_Chain 1 / CH48



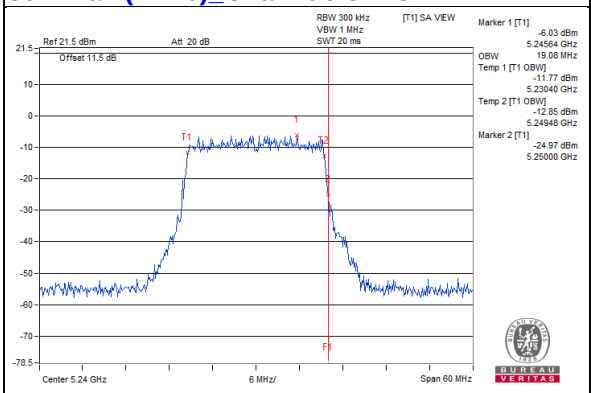
802.11a_Chain 2 / CH48



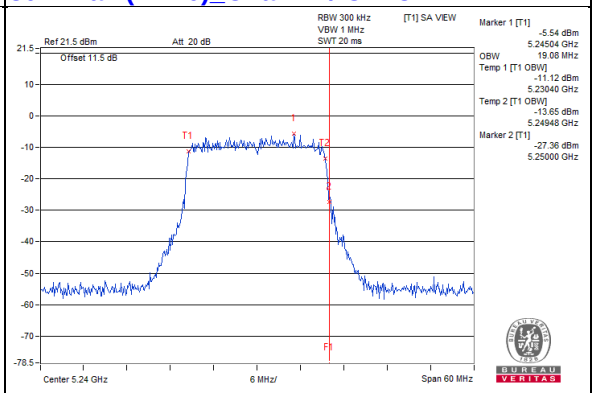
802.11a_Chain 3 / CH48



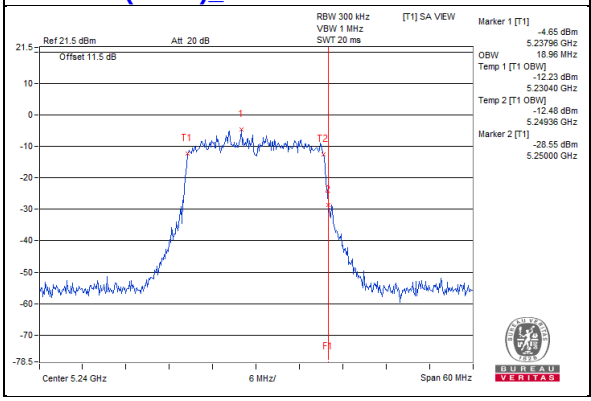
802.11ax (HE20)_Chain 0 / CH48



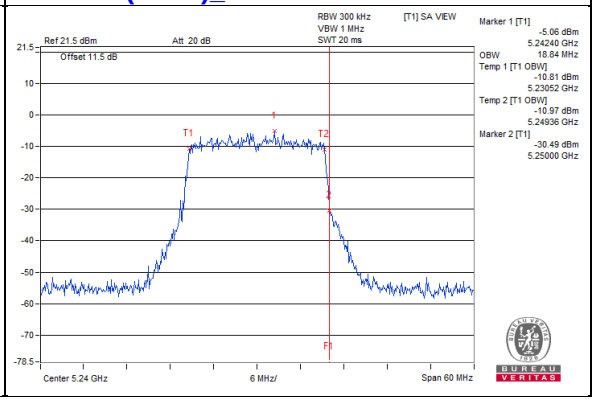
802.11ax (HE20)_Chain 1 / CH48



802.11ax (HE20)_Chain 2 / CH48

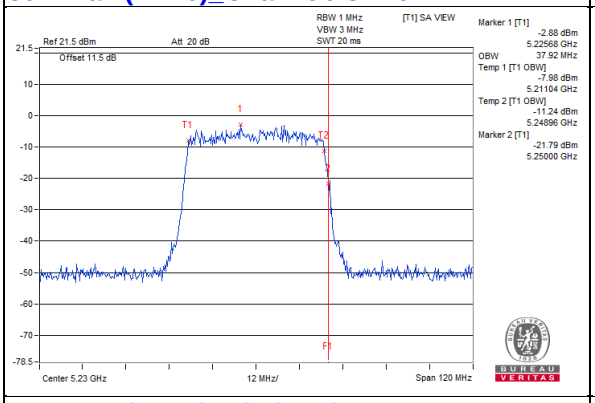


802.11ax (HE20)_Chain 3 / CH48

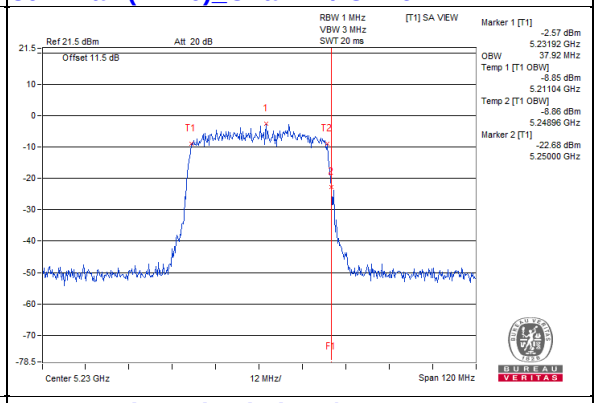


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

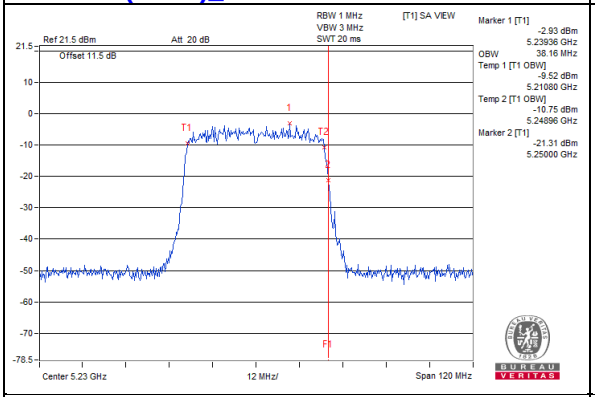
802.11ax (HE40)_Chain 0 / CH46



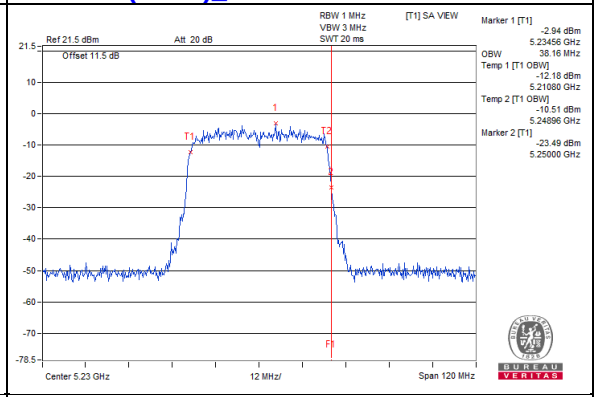
802.11ax (HE40)_Chain 1 / CH46



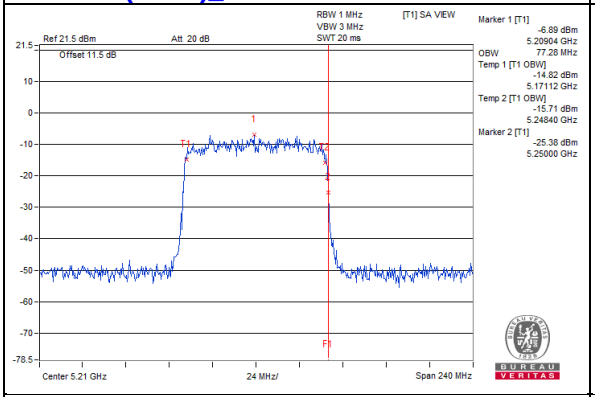
802.11ax (HE40)_Chain 2 / CH46



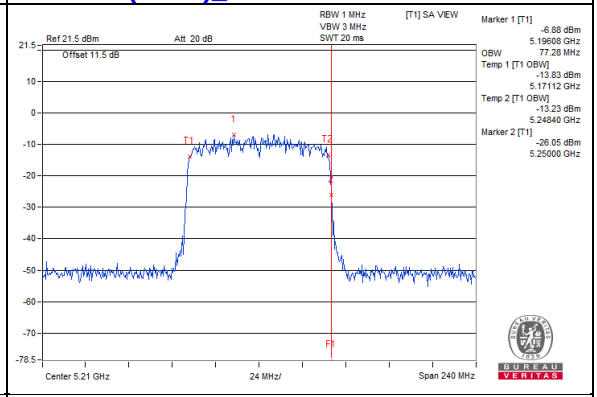
802.11ax (HE40)_Chain 3 / CH46



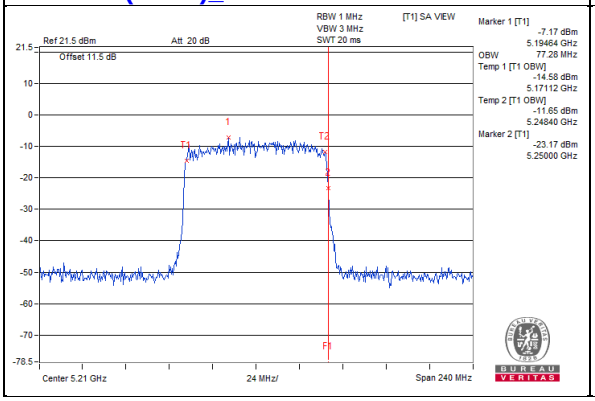
802.11ax (HE80)_Chain 0 / CH42



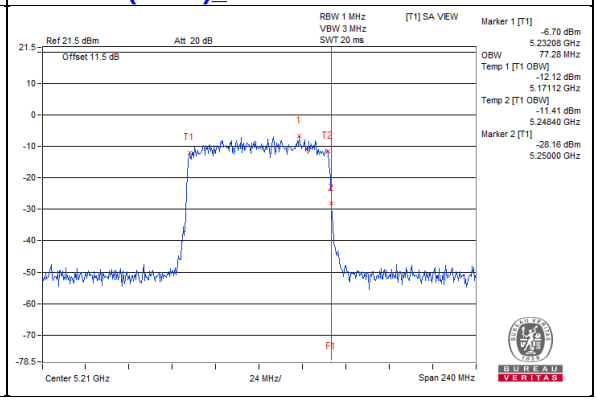
802.11ax (HE80)_Chain 1 / CH42



802.11ax (HE80)_Chain 2 / CH42

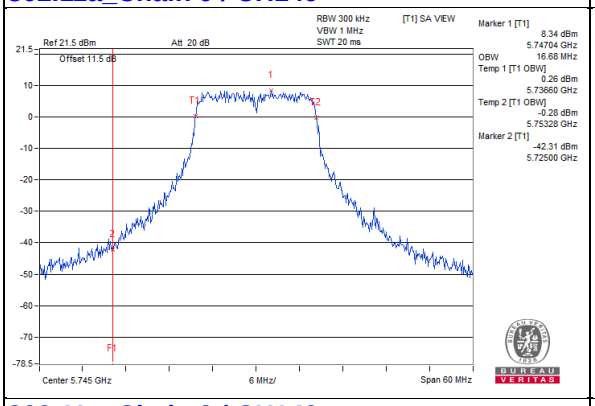


802.11ax (HE80)_Chain 3 / CH42

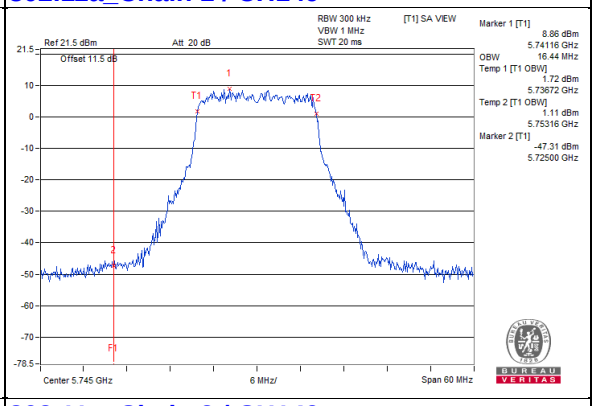


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

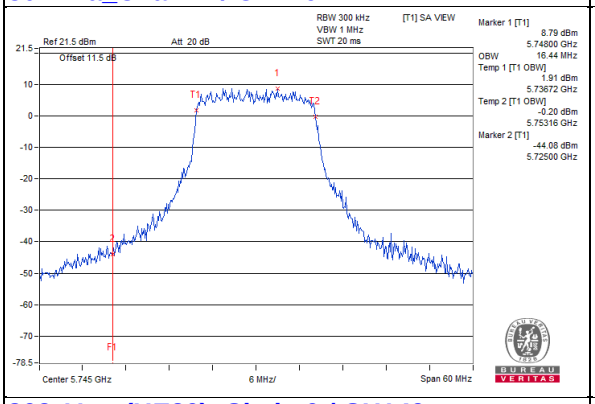
802.11a_Chain 0 / CH149



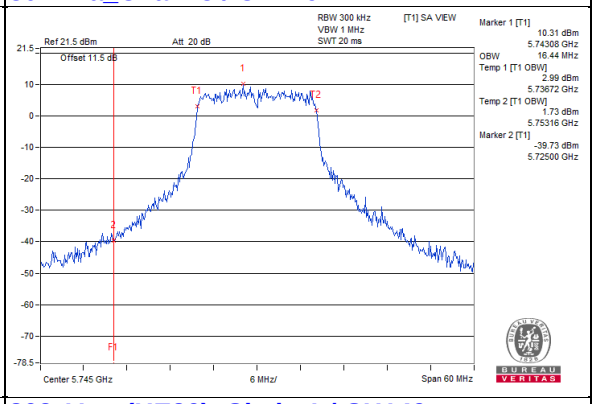
802.11a_Chain 1 / CH149



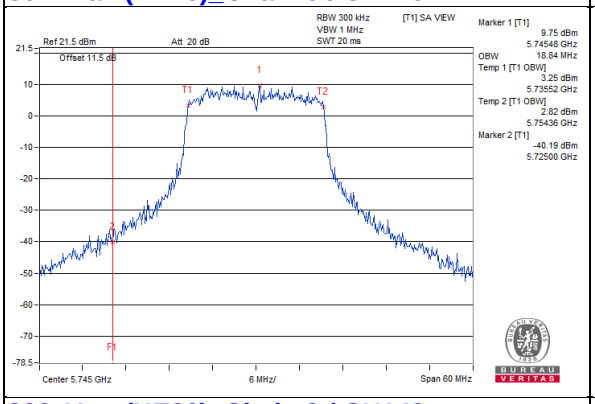
802.11a_Chain 2 / CH149



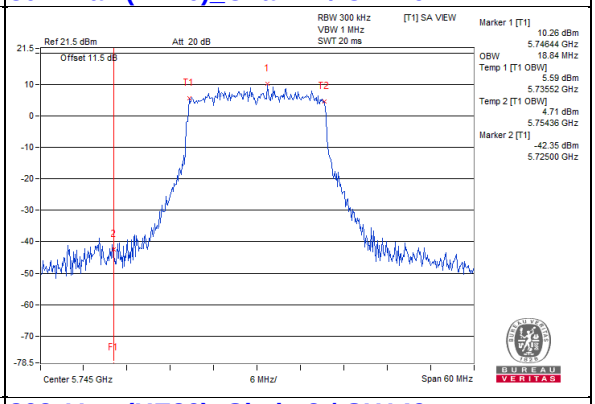
802.11a_Chain 3 / CH149



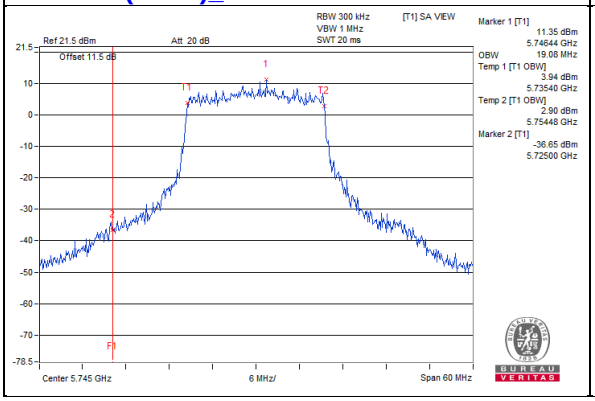
802.11ax (HE20)_Chain 0 / CH149



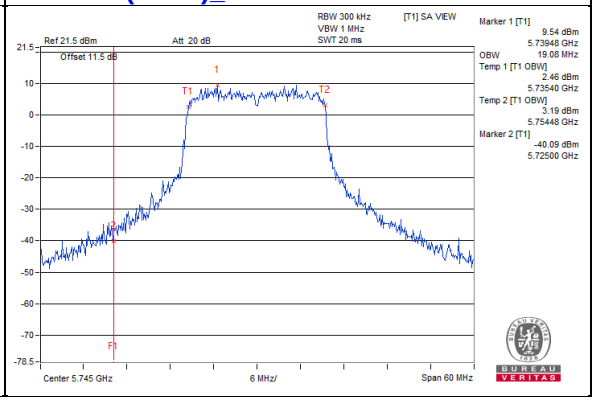
802.11ax (HE20)_Chain 1 / CH149



802.11ax (HE20)_Chain 2 / CH149

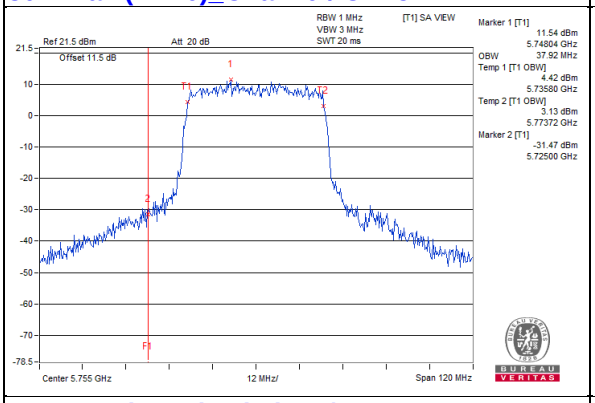


802.11ax (HE20)_Chain 3 / CH149

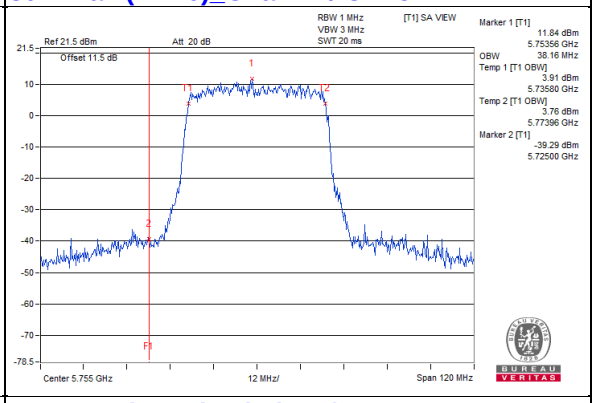


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

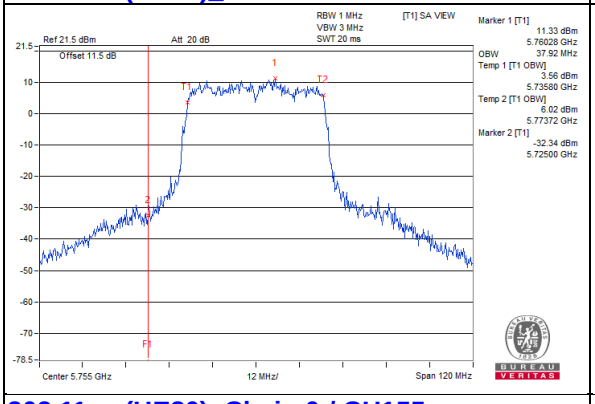
802.11ax (HE40)_Chain 0 / CH151



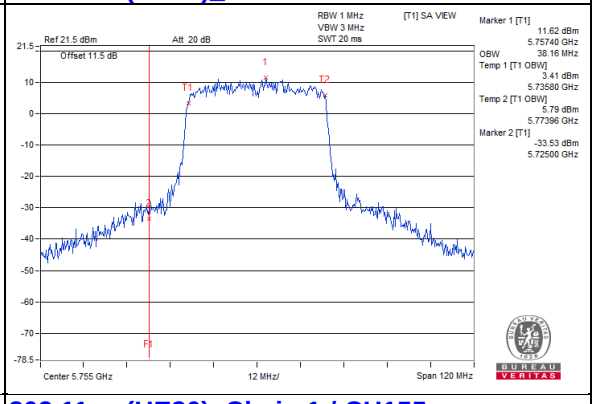
802.11ax (HE40)_Chain 1 / CH151



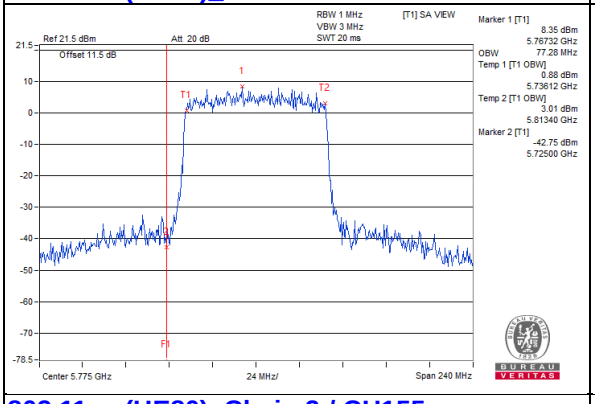
802.11ax (HE40)_Chain 2 / CH151



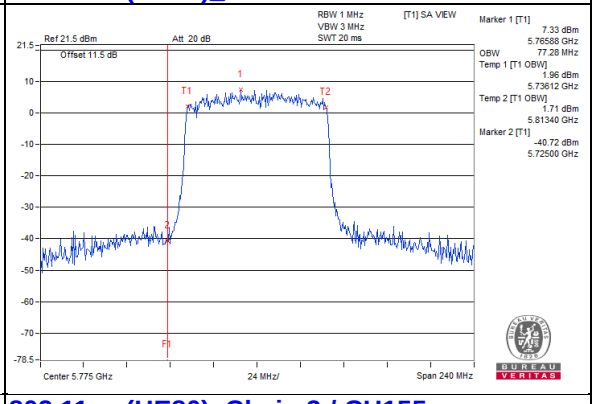
802.11ax (HE40)_Chain 3 / CH151



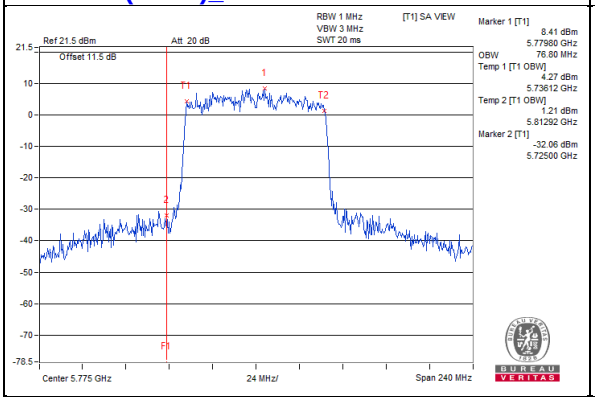
802.11ax (HE80)_Chain 0 / CH155



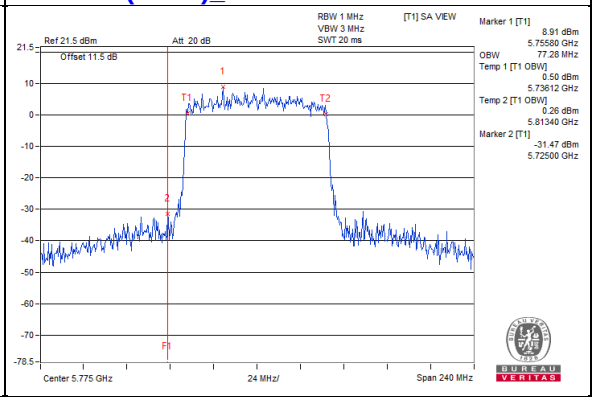
802.11ax (HE80)_Chain 1 / CH155



802.11ax (HE80)_Chain 2 / CH155



802.11ax (HE80)_Chain 3 / CH155

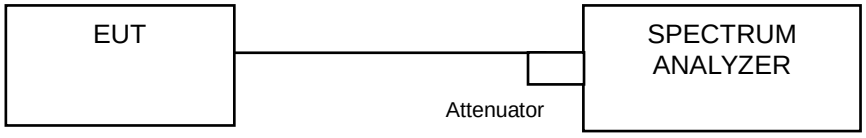


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1	√	Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Client device	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

Using method SA-2

For U-NII-1:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to “free run”.
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500 kHz/300kHz)
5. Sweep time = auto, trigger set to “free run”.
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results (Mode 1)

For U-NII-1:

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
36	5180	-15.28	-12.80	-13.40	-12.15	0.35	-7.24	3.98	PASS
40	5200	-13.20	-13.25	-14.04	-11.68	0.35	-6.93	3.98	PASS
48	5240	-12.05	-12.94	-13.67	-12.66	0.35	-6.77	3.98	PASS

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 17-(19.02-6) = 3.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
36	5180	-14.30	-14.42	-13.88	-14.10	0.18	-8.15	3.98	PASS
40	5200	-13.57	-14.65	-13.22	-12.94	0.18	-7.53	3.98	PASS
48	5240	-13.00	-12.80	-12.76	-12.81	0.18	-6.82	3.98	PASS

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 17-(19.02-6) = 3.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

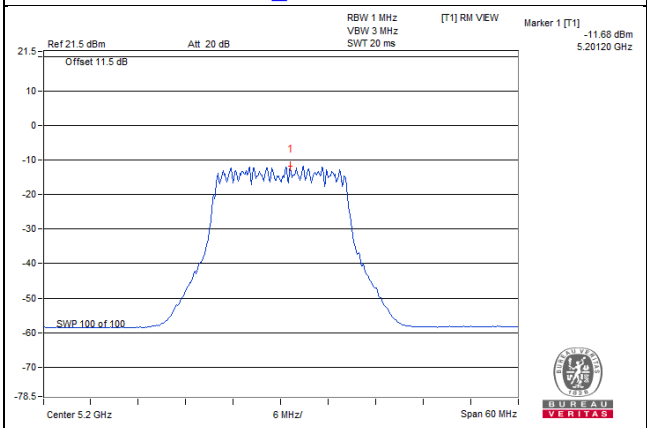
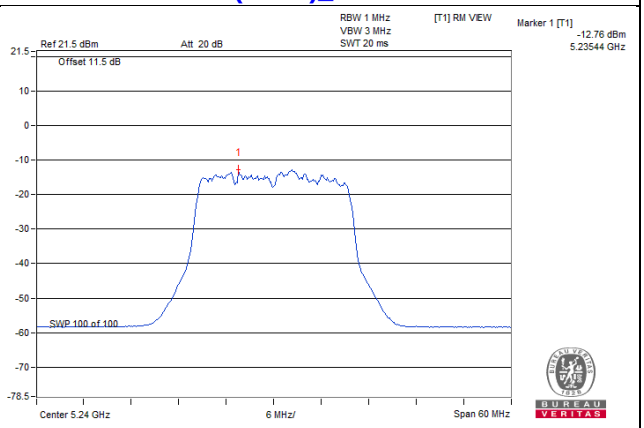
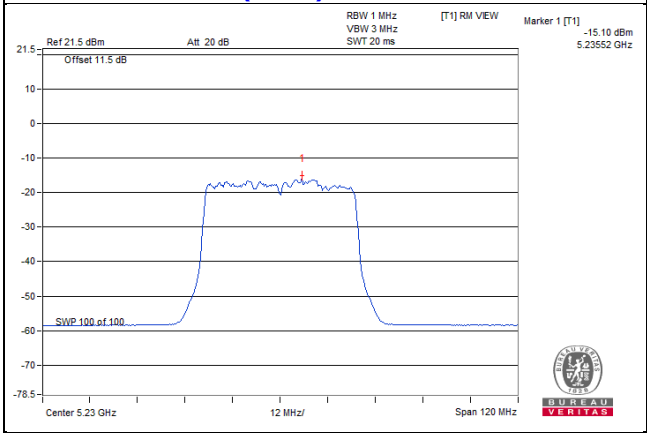
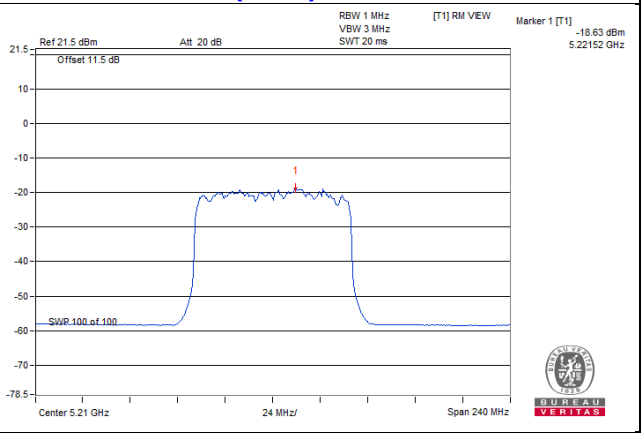
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
38	5190	-16.73	-15.31	-16.61	-16.94	0.24	-10.33	3.98	PASS
46	5230	-15.10	-15.68	-15.94	-15.93	0.24	-9.63	3.98	PASS

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 17-(19.02-6) = 3.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
42	5210	-18.84	-19.53	-19.54	-19.80	0.19	-13.39	3.98	PASS

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 17-(19.02-6) = 3.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a_Chain 3 / CH40	**802.11ax (HE20)_Chain 2 / CH48**
	
802.11ax (HE40)_Chain 0 / CH46	**802.11ax (HE80)_Chain 0 / CH42**
	

For U-NII-3:

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Duty Factor (dB)	Total PSD (mW/300kHz)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3						
149	5745	-5.72	-5.68	-5.43	-6.00	0.35	1.1655	0.67	2.89	16.98	PASS
157	5785	-5.46	-6.31	-5.59	-4.81	0.35	1.2184	0.86	3.08	16.98	PASS
165	5825	-5.92	-5.93	-6.30	-5.69	0.35	1.0999	0.41	2.63	16.98	PASS

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 30-(19.02-6) = 16.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Duty Factor (dB)	Total PSD (mW/300kHz)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3						
149	5745	-6.76	-6.71	-6.05	-6.95	0.18	0.9122	-0.40	1.82	16.98	PASS
157	5785	-7.28	-7.24	-6.69	-6.48	0.18	0.8504	-0.70	1.52	16.98	PASS
165	5825	-6.91	-6.42	-6.88	-7.34	0.18	0.8569	-0.67	1.55	16.98	PASS

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 30-(19.02-6) = 16.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

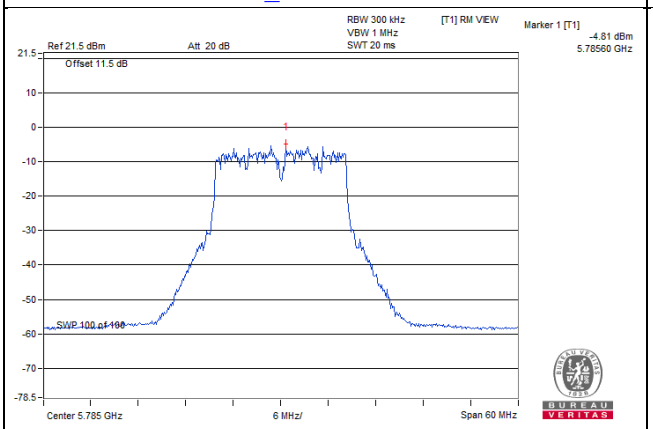
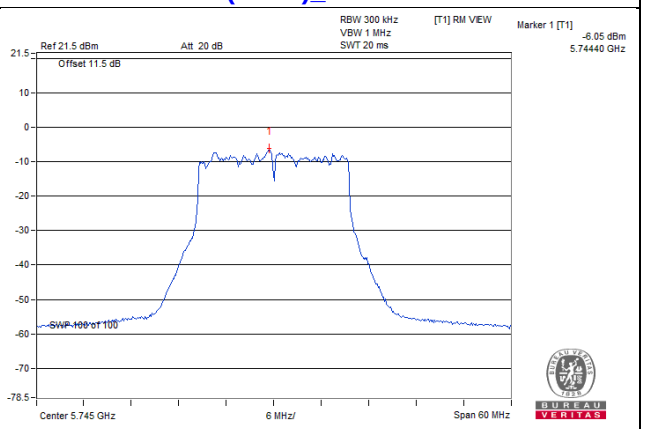
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Duty Factor (dB)	Total PSD (mW/300kHz)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3						
151	5755	-9.11	-9.37	-8.71	-10.06	0.24	0.49831	-3.03	-0.81	16.98	PASS
159	5795	-10.10	-9.68	-9.53	-9.83	0.24	0.44465	-3.52	-1.30	16.98	PASS

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 30-(19.02-6) = 16.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Duty Factor (dB)	Total PSD (mW/300kHz)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3						
155	5775	-13.00	-13.25	-12.44	-13.05	0.19	0.21298	-6.72	-4.50	16.98	PASS

Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = 13dBi + 10log(4) =19.02dBi > 6dBi , so the power density limit shall be reduced to 30-(19.02-6) = 16.98dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a_Chain 3 / CH157	**802.11ax (HE20)_Chain 2 / CH149**
	
802.11ax (HE40)_Chain 2 / CH151	**802.11ax (HE80)_Chain 2 / CH155**