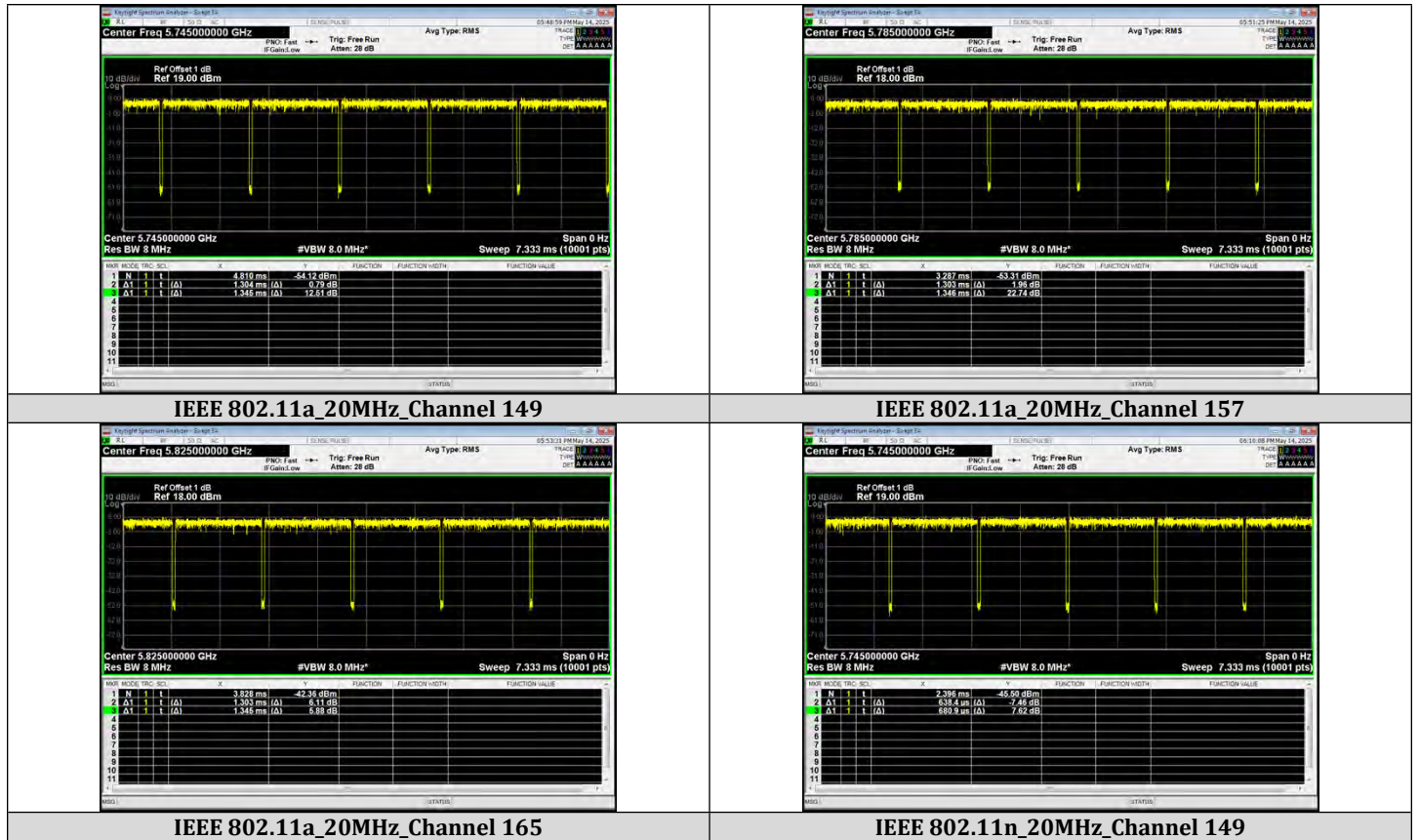


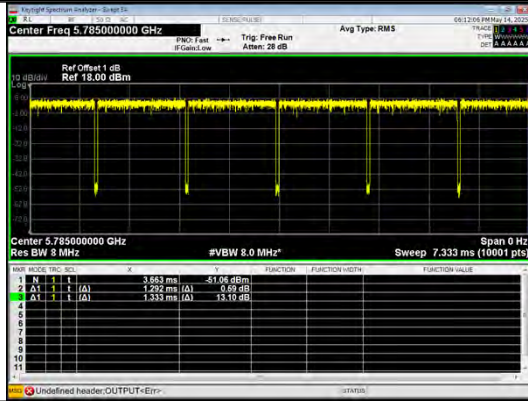
Duty Cycle

Test Result

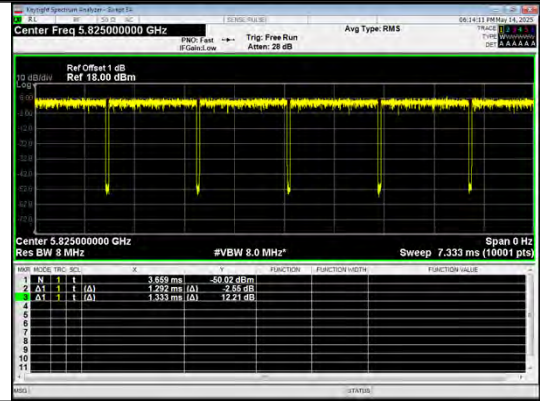
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.303	1.346	96.86	0.9686	0.1386	0.7675
		157		1.303	1.345	96.85	0.9685	0.139	0.7675
		165		1.303	1.346	96.86	0.9686	0.1386	0.7675
IEEE 802.11n_20	149	1.292		1.333	96.88	0.9688	0.1377	0.7740	
	157	1.292		1.333	96.88	0.9688	0.1377	0.7740	
	165	1.291		1.333	96.83	0.9683	0.1399	0.7746	
IEEE 802.11n_40	151	0.638		0.681	93.75	0.9375	0.2803	1.5674	
	159	0.639		0.681	93.76	0.9376	0.2798	1.5649	
IEEE 802.11ac_20	MCS 0	149		1.316	1.357	96.98	0.9698	0.1332	0.7599
		157		1.316	1.357	96.98	0.9698	0.1332	0.7599
		165		1.316	1.358	96.91	0.9691	0.1363	0.7599
151		0.654		0.697	93.90	0.9390	0.2733	1.5291	
159		0.654		0.696	93.90	0.9390	0.2733	1.5291	
155		0.325		0.369	88.17	0.8817	0.5468	3.0769	

Test Graphs

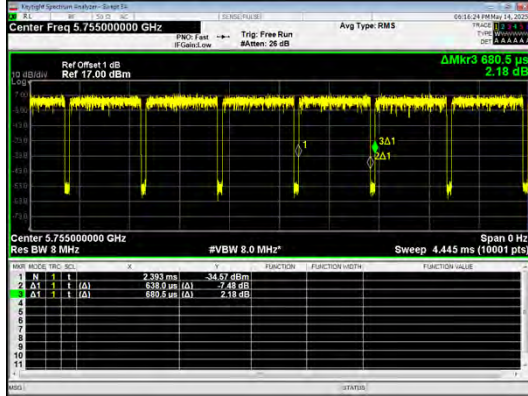




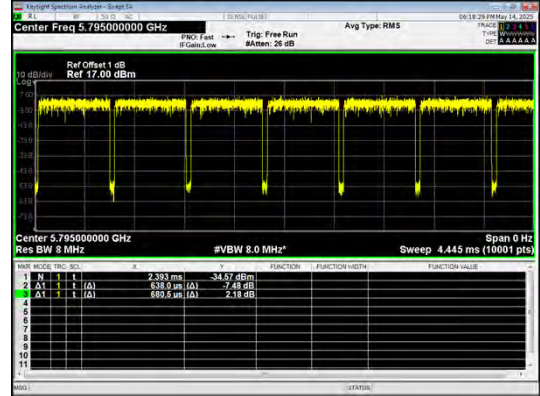
IEEE 802.11n 20MHz_Channel 157



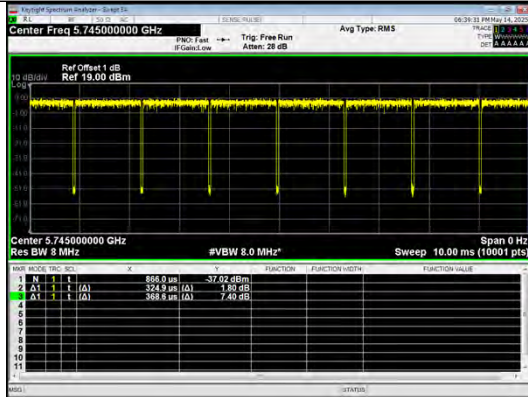
IEEE 802.11n 20MHz_Channel 165



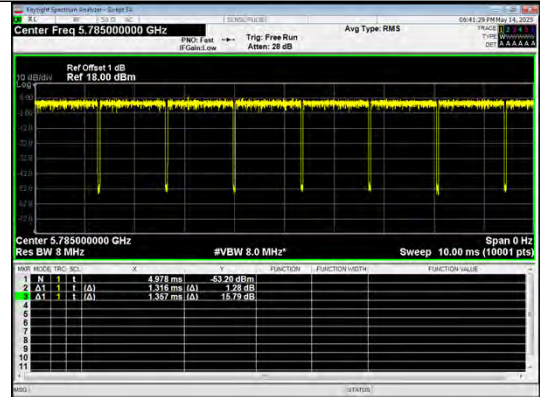
IEEE 802.11n 40MHz_Channel 151



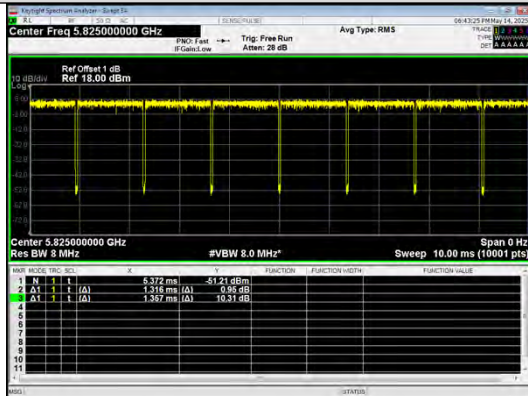
IEEE 802.11n 40MHz_Channel 159



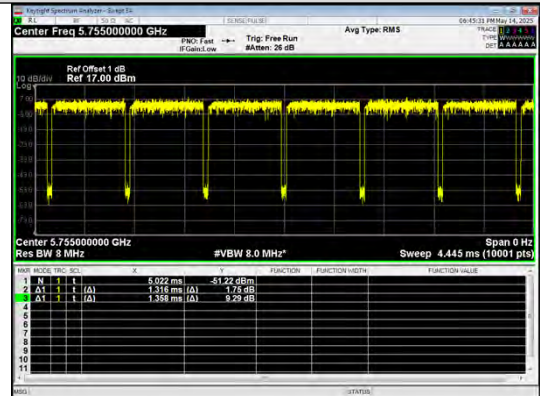
IEEE 802.11ac 20MHz_Channel 149



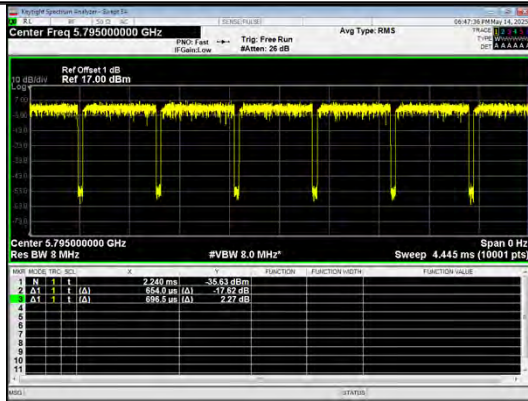
IEEE 802.11ac 20MHz_Channel 157



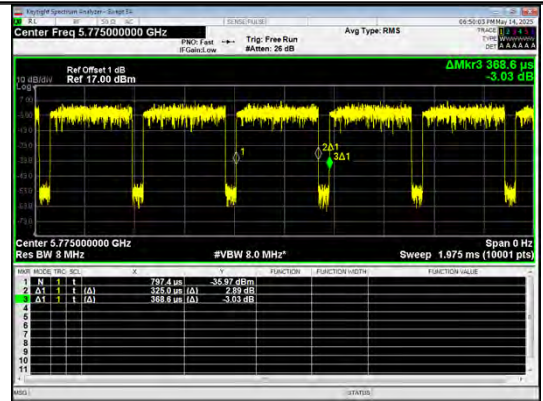
IEEE 802.11ac 20MHz_Channel 165



IEEE 802.11ac 40MHz_Channel 151



IEEE 802.11ac_40MHz_Channel 159



IEEE 802.11ac_80MHz_Channel 155



Conducted Output Power

Conducted output power

Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	8.484	8.62	≤30	PASS
	157	6.963	7.10	≤30	PASS
	165	7.071	7.21	≤30	PASS
IEEE 802.11n_20	149	8.444	8.58	≤30	PASS
	157	7.113	7.25	≤30	PASS
	165	7.967	8.11	≤30	PASS
IEEE 802.11n_40	151	8.332	8.61	≤30	PASS
	159	6.959	7.24	≤30	PASS
IEEE 802.11ac_20	149	8.481	8.62	≤30	PASS
	157	6.976	7.11	≤30	PASS
	165	7.914	8.05	≤30	PASS
IEEE 802.11ac_40	151	8.307	8.58	≤30	PASS
	159	6.830	7.10	≤30	PASS
IEEE 802.11ac_80	155	7.311	7.86	≤30	PASS

Note: Corr'd Value= Ant. 0 (dBm)+Duty cycle Factor.



Conducted AVG output power
IEEE 802.11a_Channel 149_Antenna 0



Conducted AVG output power
IEEE 802.11a_Channel 157_Antenna 0



Conducted AVG output power
IEEE 802.11a_Channel 165_Antenna 0



Conducted AVG output power
IEEE 802.11n_20_Channel 149_Antenna 0



Conducted AVG output power
IEEE 802.11n_20_Channel 157_Antenna 0



Conducted AVG output power
IEEE 802.11n_20_Channel 165_Antenna 0



Conducted AVG output power
IEEE 802.11n_40_Channel 151_Antenna 0



Conducted AVG output power
IEEE 802.11n_40_Channel 159_Antenna 0



Conducted AVG output power
IEEE 802.11ac_20_Channel 149_Antenna 0



Conducted AVG output power
IEEE 802.11ac_20_Channel 157_Antenna 0



Conducted AVG output power
IEEE 802.11ac_20_Channel 165_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 151_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 159_Antenna 0



Conducted AVG output power
IEEE 802.11ac_80_Channel 155_Antenna 0



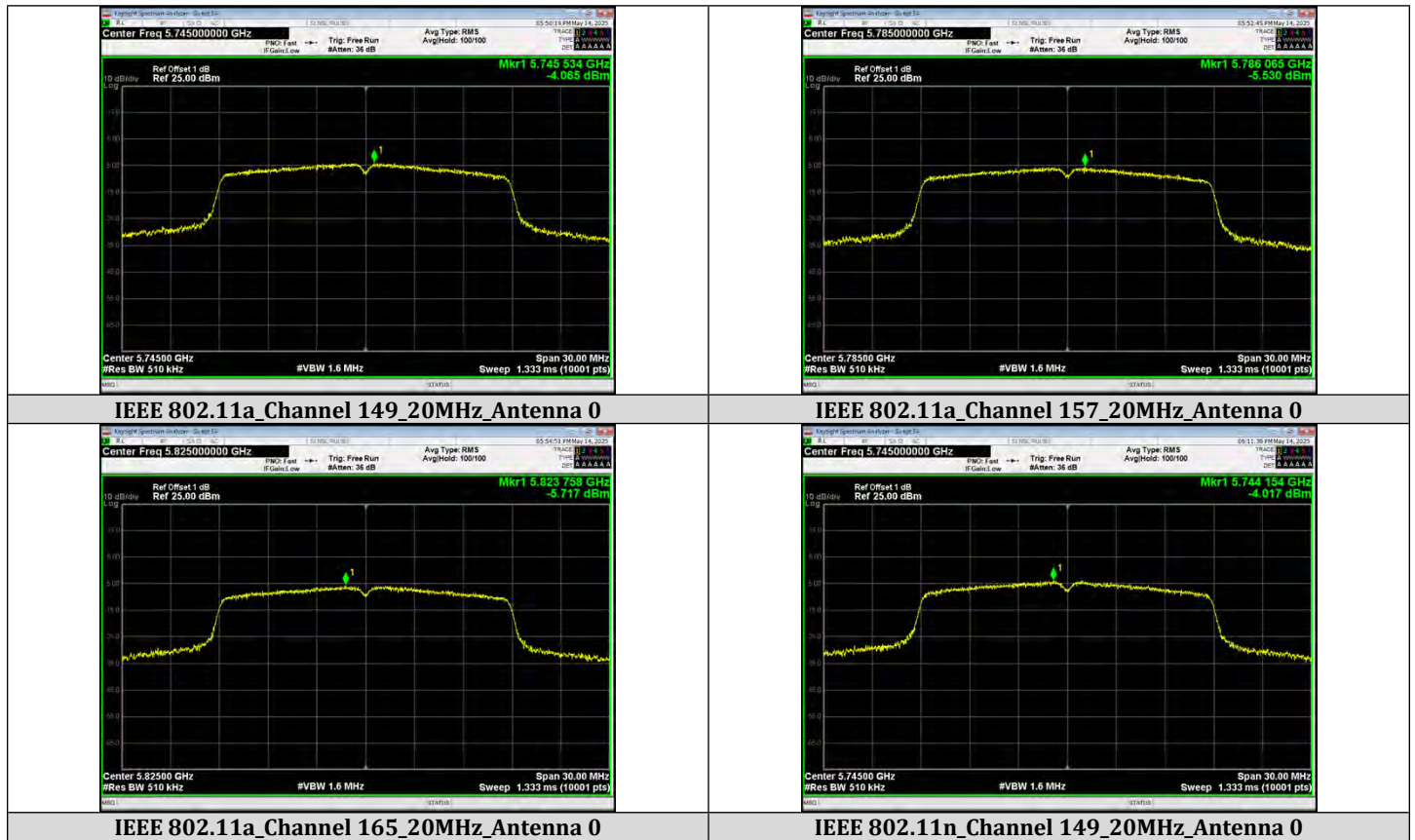
Peak Power Spectral Density

Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.51MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-4.065	-4.012	30	PASS
	157	-5.530	-5.477		PASS
	165	-5.717	-5.664		PASS
IEEE 802.11n_20	149	-4.017	-3.965		PASS
	157	-5.332	-5.280		PASS
	165	-4.838	-4.784		PASS
IEEE 802.11n_40	151	-6.900	-6.706		PASS
	159	-8.453	-8.259		PASS
IEEE 802.11ac_20	149	-3.956	-3.909		PASS
	157	-5.402	-5.355		PASS
	165	-4.699	-4.649		PASS
IEEE 802.11ac_40	151	-7.072	-6.885		PASS
	159	-8.753	-8.566		PASS
IEEE 802.11ac_80	155	-10.905	-10.444		PASS

Note: Corr'd PSD = Meas PSD +Duty cycle Factor- BW factor($10*\log(510/500)$).

Test Graphs





IEEE 802.11n_Channel 157_20MHz_Antenna 0



IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0



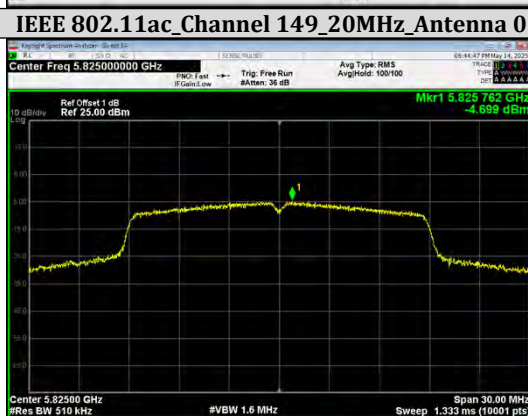
IEEE 802.11n_Channel 159_40MHz_Antenna 0



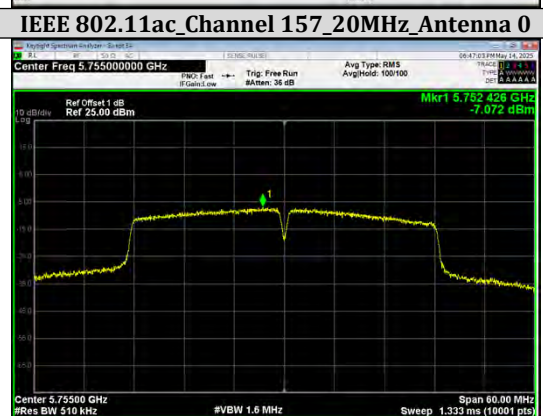
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



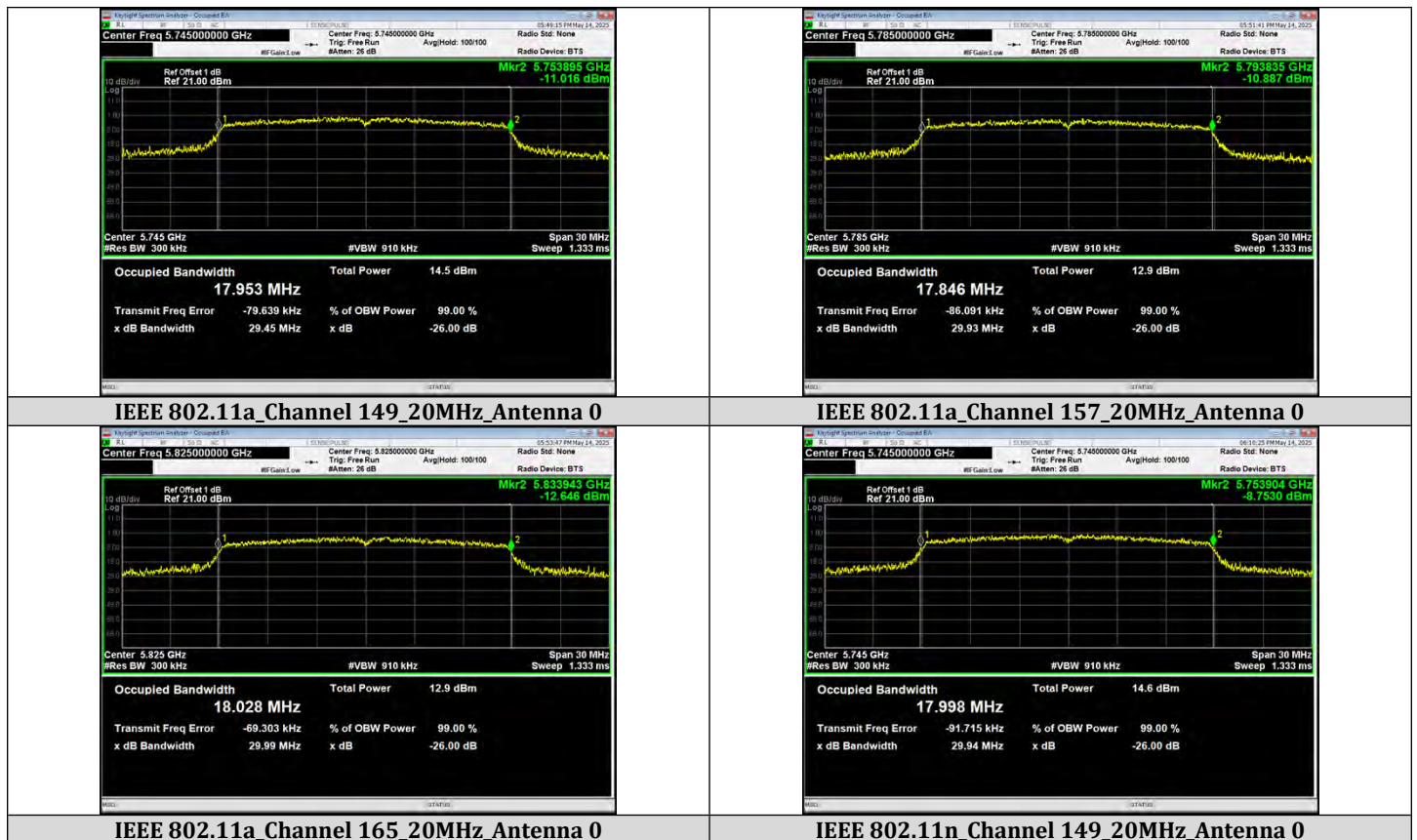
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

**99% Bandwidth****Test Result**

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	0	5745	17.953
	157		5785	17.846
	165		5825	18.028
IEEE 802.11n_20	149		5745	17.998
	157		5785	17.920
	165		5825	19.038
IEEE 802.11n_40	151		5755	36.604
	159		5795	36.557
IEEE 802.11ac_20	149		5745	17.931
	157		5785	17.917
	165		5825	18.936
IEEE 802.11ac_40	151		5755	36.531
	159		5795	36.511
IEEE 802.11ac_80	155		5775	76.139

Test Graphs



IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 149_20MHz_Antenna 0

IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



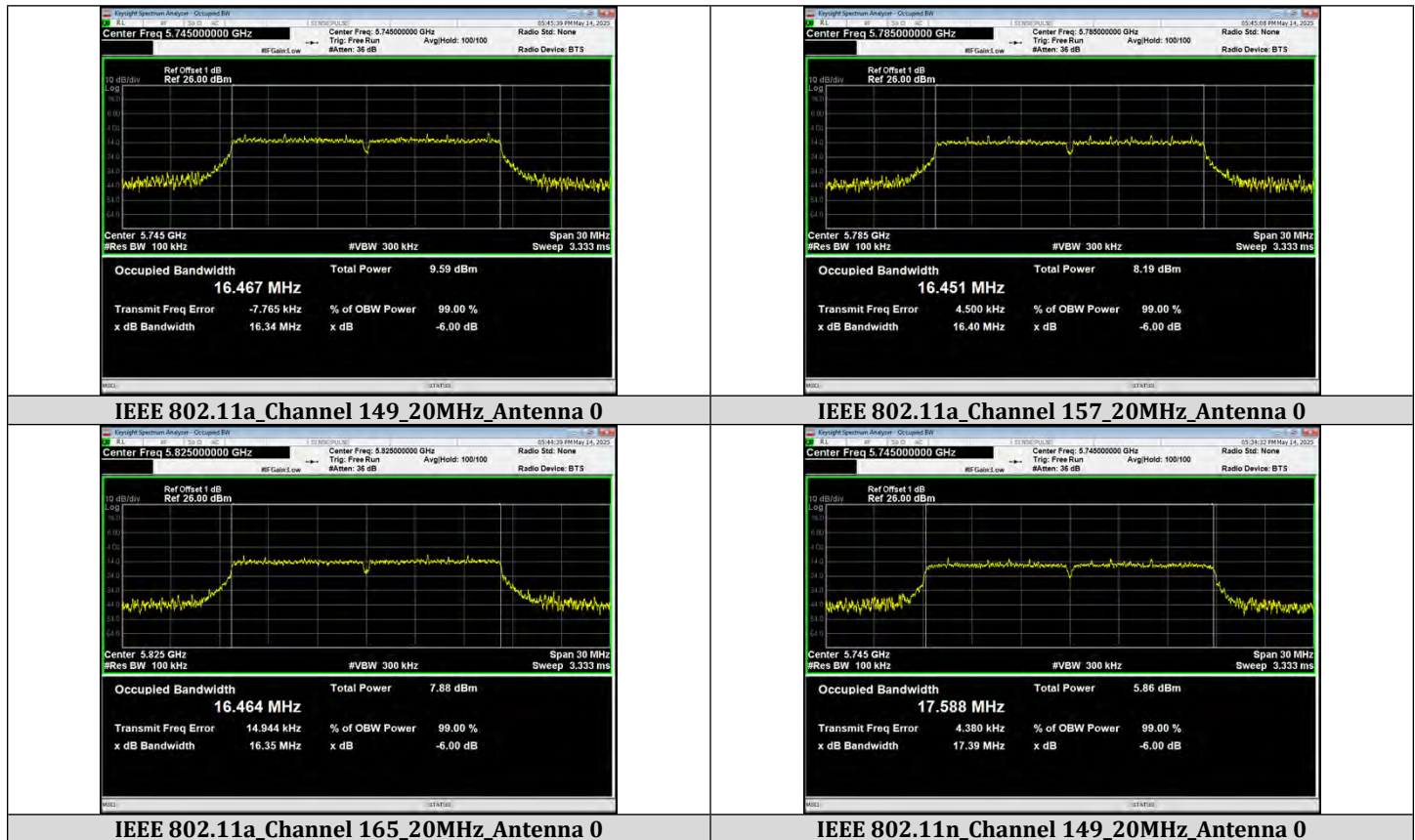
IEEE 802.11ac_Channel 159_40MHz_Antenna 0

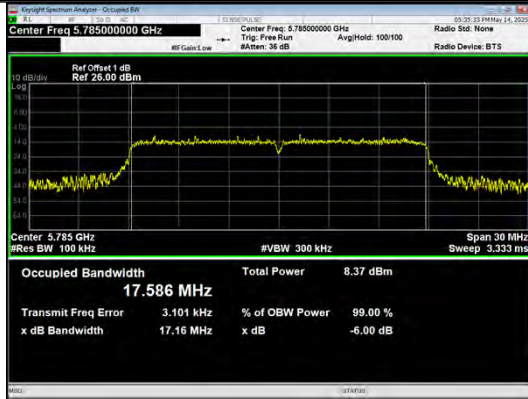


IEEE 802.11ac_Channel 155_80MHz_Antenna 0

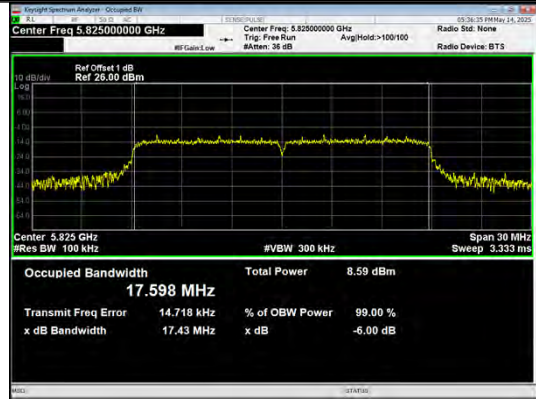
**6dB Bandwidth****Test Result**

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.34	≥0.5	PASS
	157		5785	16.40		PASS
	165		5825	16.35		PASS
IEEE 802.11n_20	149		5745	17.39		PASS
	157		5785	17.16		PASS
	165		5825	17.43		PASS
IEEE 802.11n_40	151		5755	35.90		PASS
	159		5795	36.26		PASS
IEEE 802.11ac_20	149		5745	17.25		PASS
	157		5785	17.03		PASS
	165		5825	17.28		PASS
IEEE 802.11ac_40	151		5755	36.04		PASS
	159		5795	36.14		PASS
IEEE 802.11ac_80	155		5775	75.74		PASS

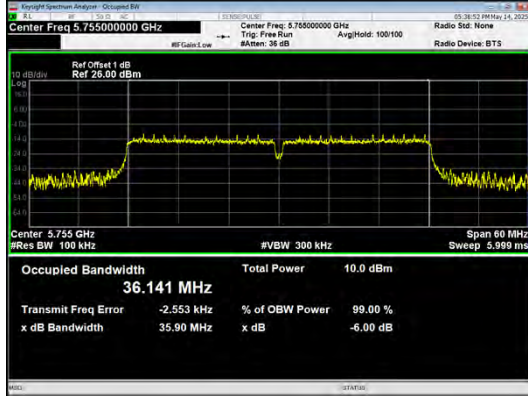
Test Graphs



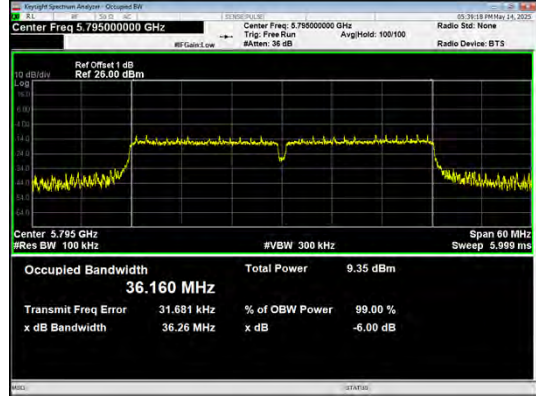
IEEE 802.11n_Channel 157_20MHz_Antenna 0



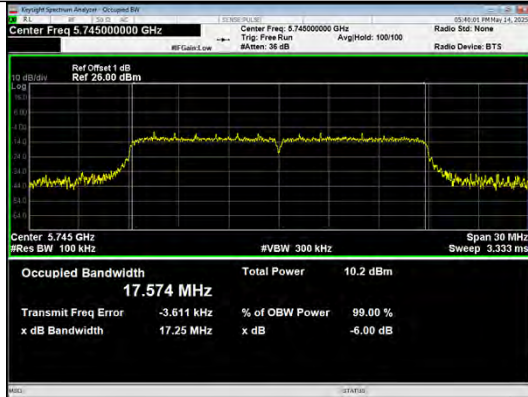
IEEE 802.11n_Channel 165_20MHz_Antenna 0



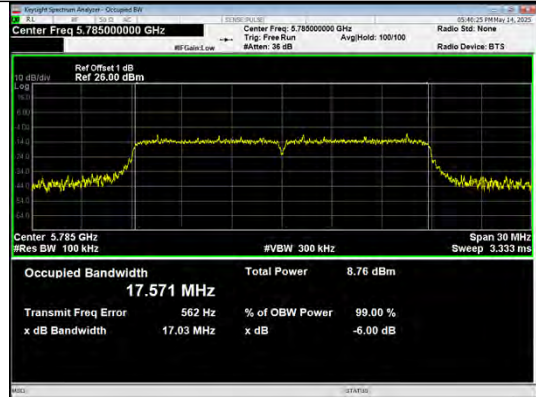
IEEE 802.11n_Channel 151_40MHz_Antenna 0



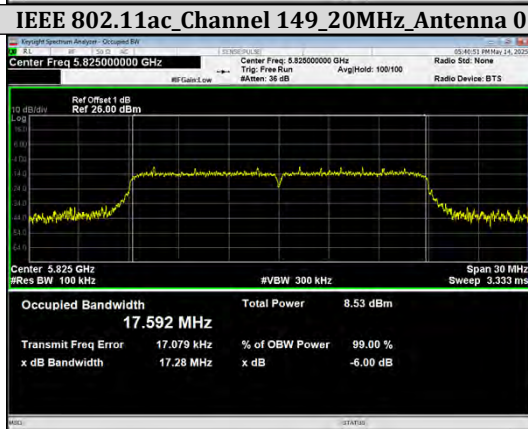
IEEE 802.11n_Channel 159_40MHz_Antenna 0



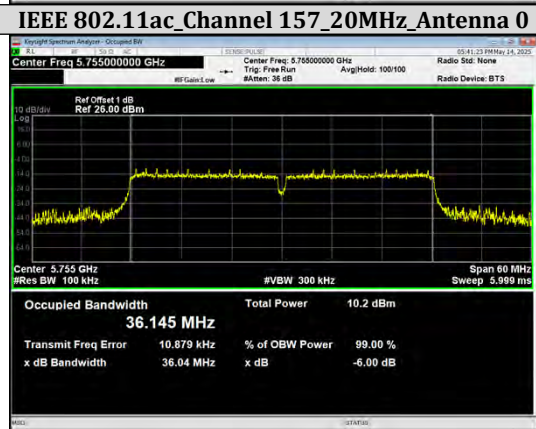
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



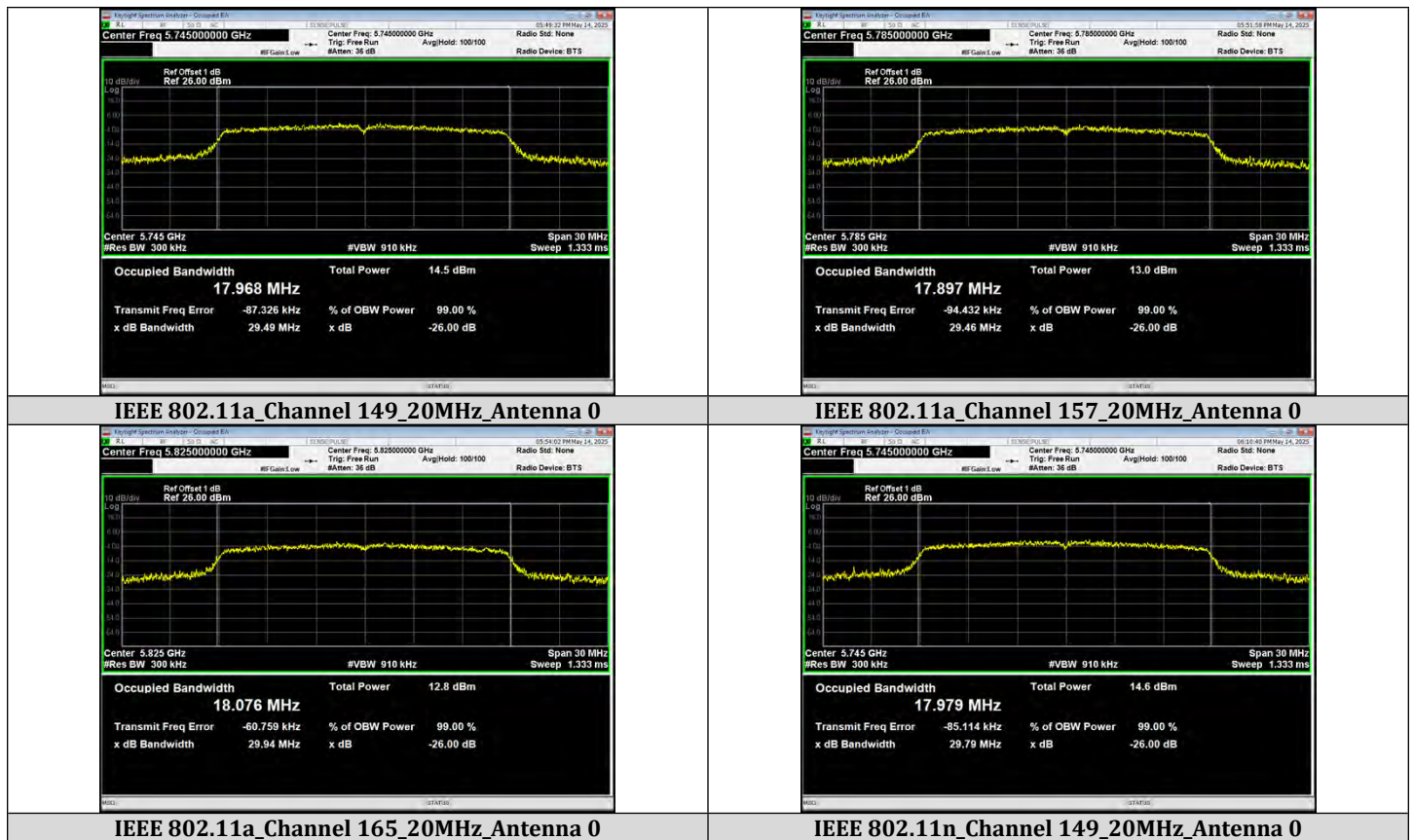
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

**26dB Bandwidth****Test Result**

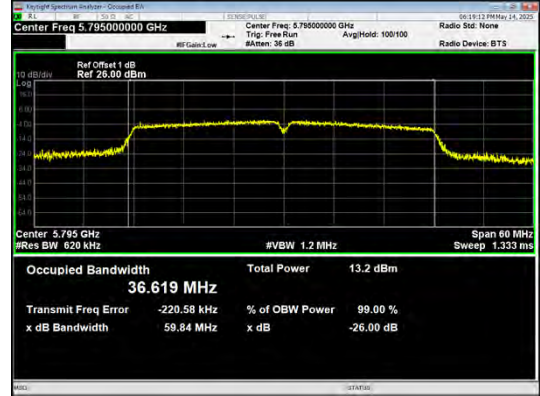
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	29.49	1.02
	157		5785	29.46	1.02
	165		5825	29.94	1.0
IEEE 802.11n_20	149		5745	29.79	1.01
	157		5785	29.76	1.01
	165		5825	29.98	1.0
IEEE 802.11n_40	151		5755	57.90	1.05
	159		5795	59.84	1.03
IEEE 802.11ac_20	149		5745	29.91	1.0
	157		5785	28.88	1.04
	165		5825	30.00	1.0
IEEE 802.11ac_40	151		5755	59.38	1.04
	159		5795	59.53	1.04
IEEE 802.11ac_80	155		5775	114.70	1.02

Test Graphs



IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



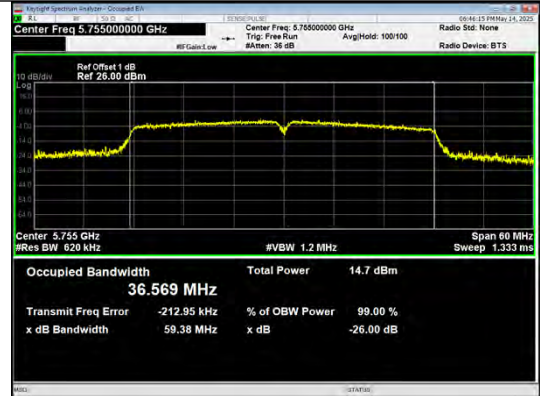
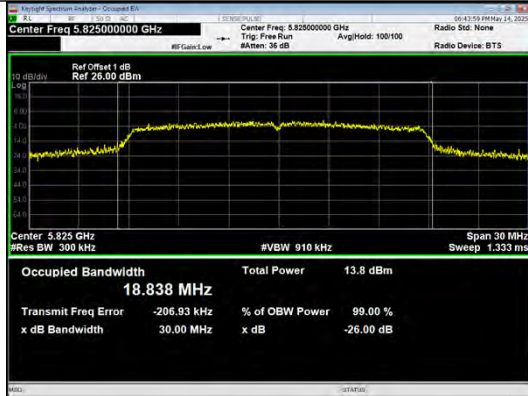
IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 149_20MHz_Antenna 0

IEEE 802.11ac_Channel 157_20MHz_Antenna 0

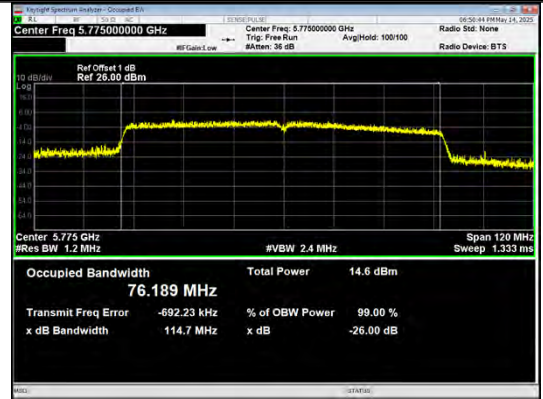


IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



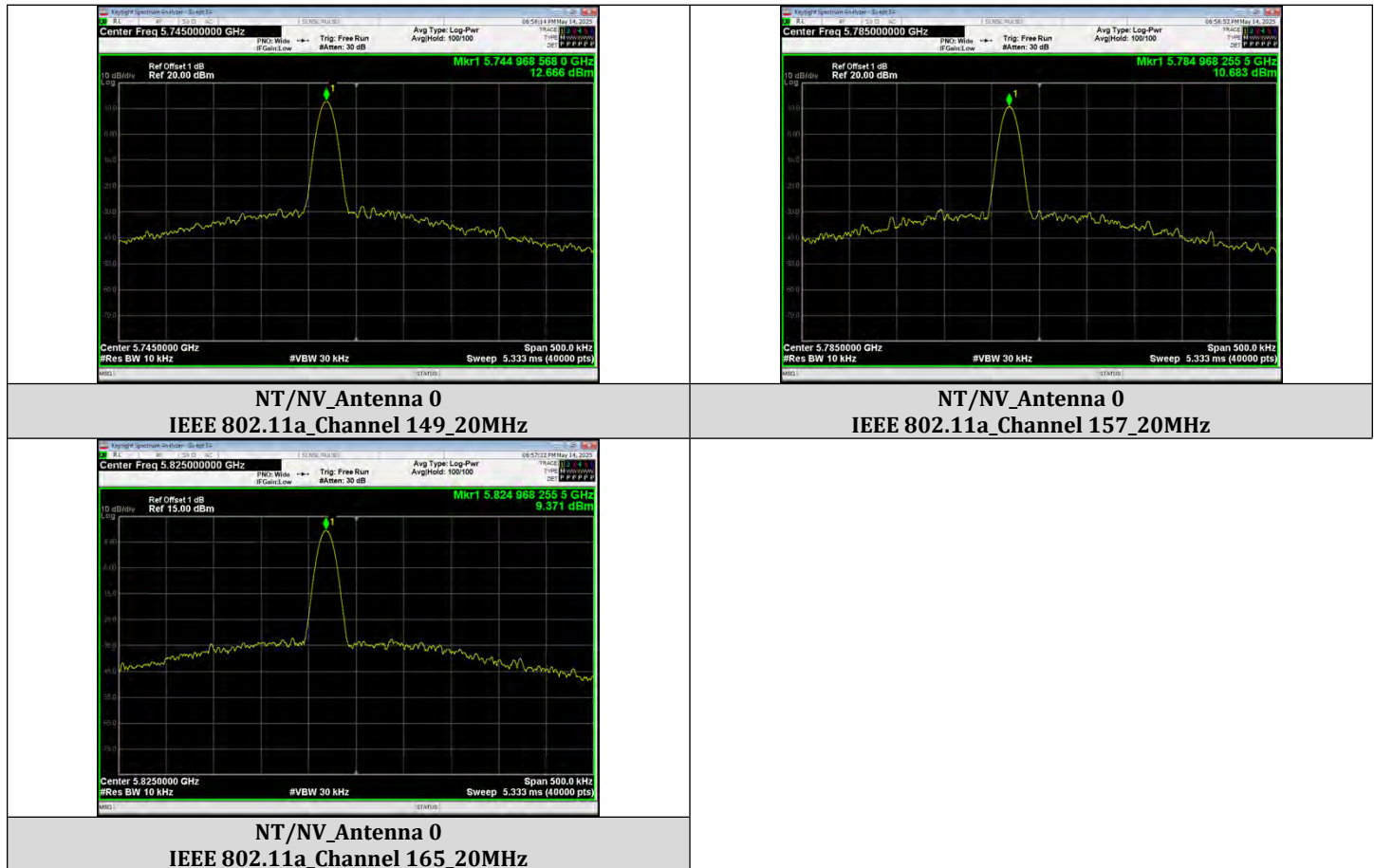
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

**Frequency Stability****Test Result**

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	149	0	5745.0	5744.968568	-5.47	Within authorized band	PASS
		157		5785.0	5784.968255	-5.49		PASS
		165		5825.0	5824.968255	-5.45		PASS
	IEEE 802.11n_20	149		5745.0	5744.968993	-5.4		PASS
		157		5785.0	5784.968705	-5.41		PASS
		165		5825.0	5824.968518	-5.4		PASS
	IEEE 802.11n_40	151		5755.0	5754.969230	-5.35		PASS
		159		5795.0	5794.969118	-5.33		PASS
	IEEE 802.11ac_20	149		5745.0	5744.970268	-5.18		PASS
		157		5785.0	5784.969755	-5.23		PASS
		165		5825.0	5824.968868	-5.34		PASS
	IEEE 802.11ac_40	151		5755.0	5754.969243	-5.34		PASS
		159		5795.0	5794.969293	-5.3		PASS
	IEEE 802.11ac_80	155		5775.0	5774.969530	-5.28		PASS

Test Graphs**NT/NV****IEEE 802.11a**

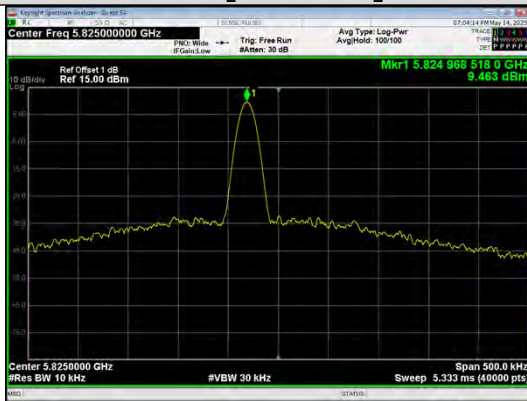
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 149_20MHz

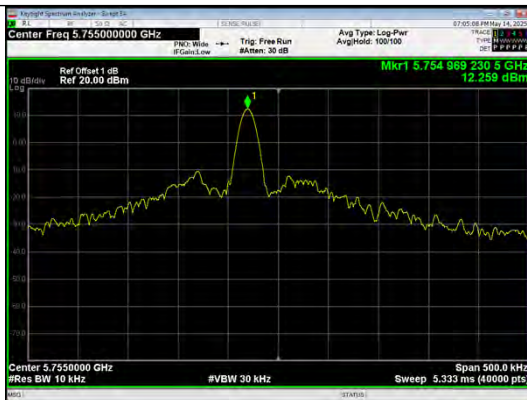


NT/NV_Antenna 0
IEEE 802.11n_Channel 157_20MHz

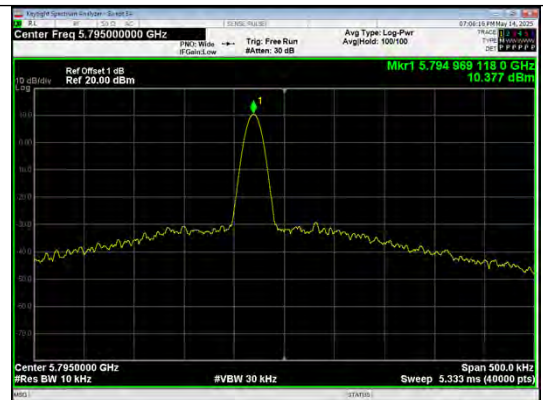


NT/NV_Antenna 0
IEEE 802.11n_Channel 165_20MHz

IEEE 802.11n_40



NT/NV_Antenna 0
IEEE 802.11n_Channel 151_40MHz



NT/NV_Antenna 0
IEEE 802.11n_Channel 159_40MHz

IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 149_20MHz



NT/NV_Antenna 0
IEEE 802.11ac_Channel 157_20MHz

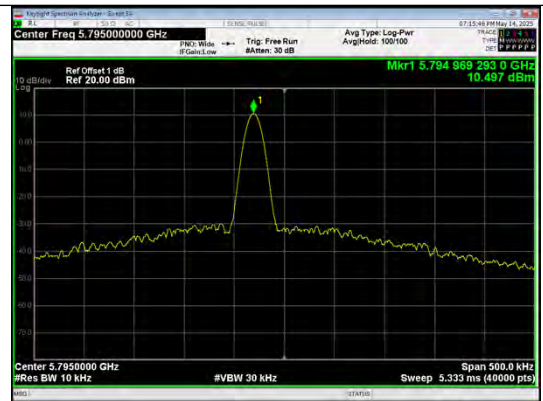


NT/NV_Antenna 0
IEEE 802.11ac_Channel 165_20MHz

IEEE 802.11ac_40



NT/NV_Antenna 0
IEEE 802.11ac_Channel 151_40MHz



NT/NV_Antenna 0
IEEE 802.11ac_Channel 159_40MHz

IEEE 802.11ac_80



NT/NV_Antenna 0
IEEE 802.11ac_Channel 155_80MHz

***** End of Report *****