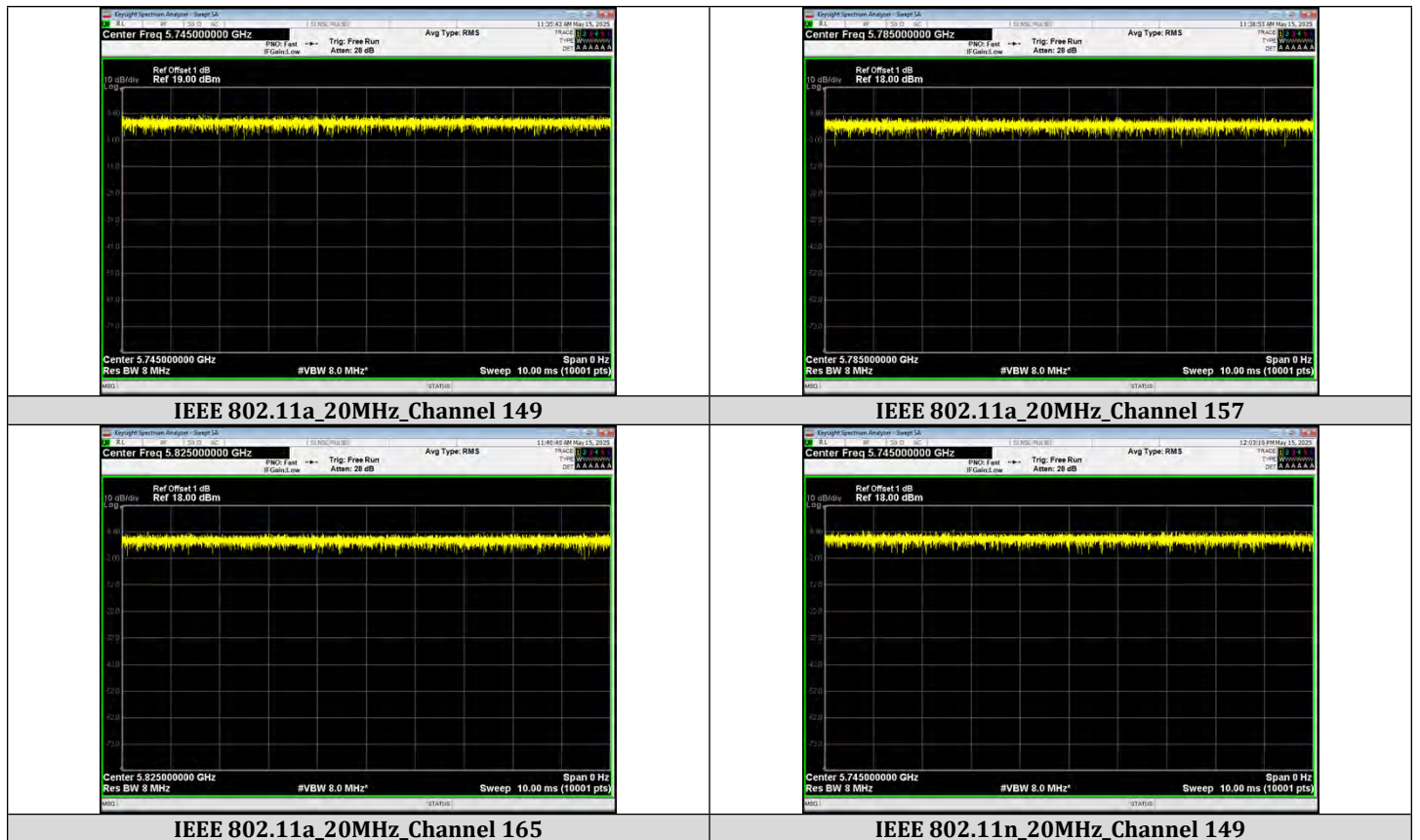


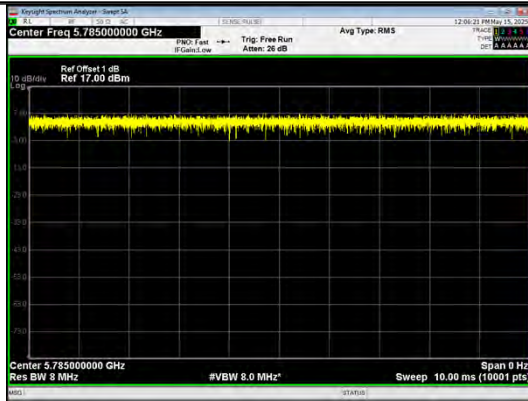
Duty Cycle

Test Result

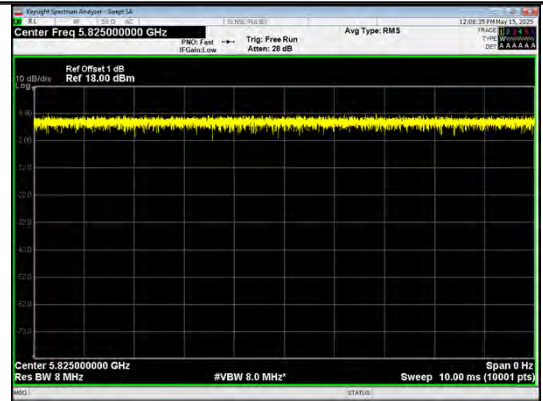
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	10.000	10.000	100	1	0.0	0.1000
		157		10.000	10.000	100	1	0.0	0.1000
		165		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11n_20	149	10.000		10.000	100	1	0.0	0.1000	
	157	10.000		10.000	100	1	0.0	0.1000	
	165	10.000		10.000	100	1	0.0	0.1000	
IEEE 802.11n_40	151	10.000		10.000	100	1	0.0	0.1000	
	159	10.000		10.000	100	1	0.0	0.1000	
IEEE 802.11ac_20	MCS 0	149		10.000	10.000	100	1	0.0	0.1000
		157		10.000	10.000	100	1	0.0	0.1000
		165		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_40		151		10.000	10.000	100	1	0.0	0.1000
		159		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_80		155		10.000	10.000	100	1	0.0	0.1000

Test Graphs

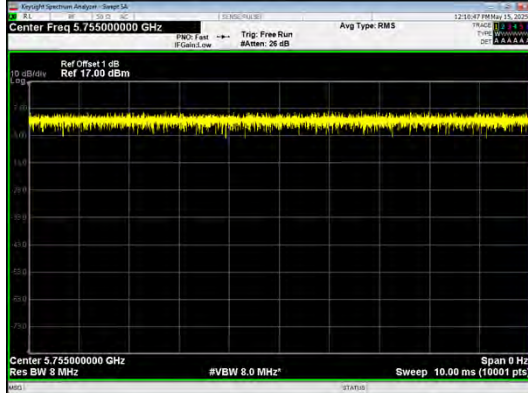




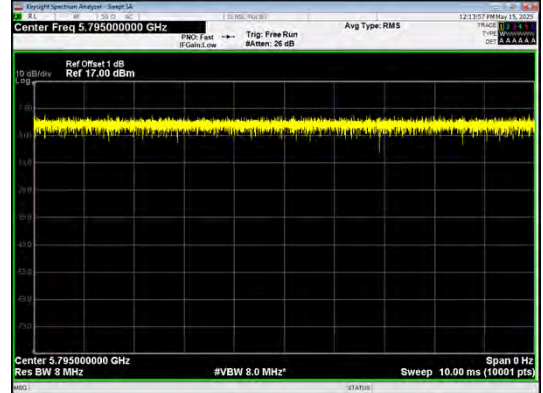
IEEE 802.11n 20MHz_Channel 157



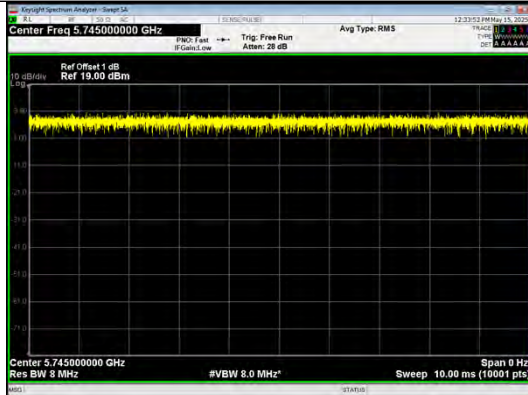
IEEE 802.11n 20MHz_Channel 165



IEEE 802.11n 40MHz_Channel 151



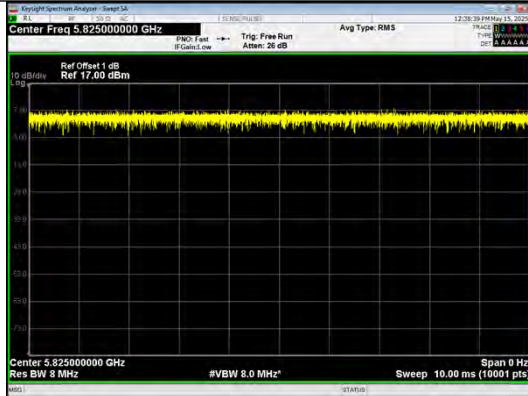
IEEE 802.11n 40MHz_Channel 159



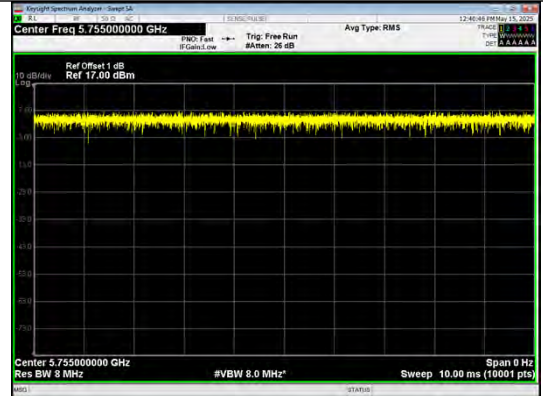
IEEE 802.11ac 20MHz_Channel 149



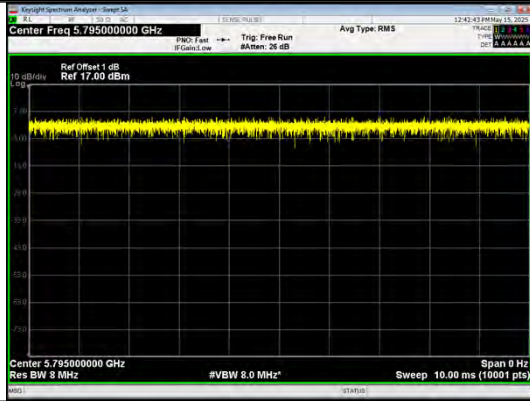
IEEE 802.11ac 20MHz_Channel 157



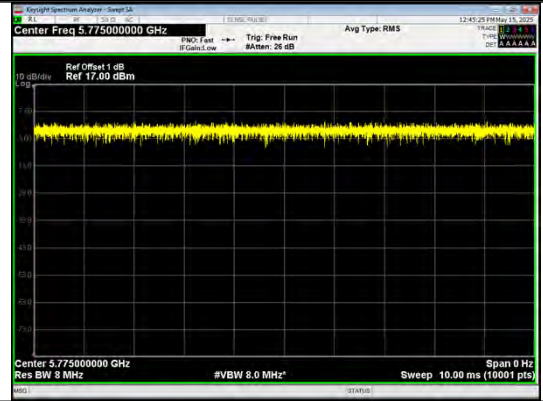
IEEE 802.11ac 20MHz_Channel 165



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	8.177	8.18	≤30	PASS
	157	6.343	6.34	≤30	PASS
	165	7.388	7.39	≤30	PASS
IEEE 802.11n_20	149	7.850	7.85	≤30	PASS
	157	6.173	6.17	≤30	PASS
	165	7.519	7.52	≤30	PASS
IEEE 802.11n_40	151	7.942	7.94	≤30	PASS
	159	6.439	6.44	≤30	PASS
IEEE 802.11ac_20	149	7.725	7.72	≤30	PASS
	157	7.000	7.0	≤30	PASS
	165	6.819	6.82	≤30	PASS
IEEE 802.11ac_40	151	8.866	8.87	≤30	PASS
	159	7.076	7.08	≤30	PASS
IEEE 802.11ac_80	155	8.624	8.62	≤30	PASS



Conducted AVG output power
IEEE 802.11a_Channel 149_Antenna 0



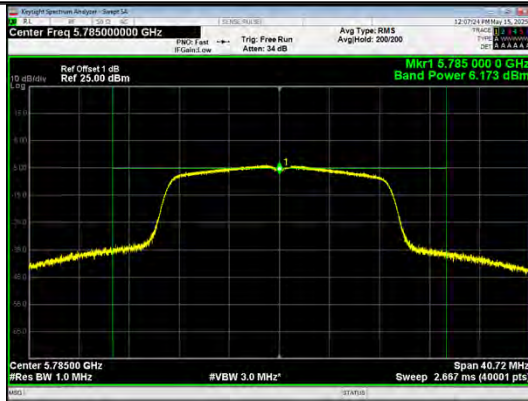
Conducted AVG output power
IEEE 802.11a_Channel 157_Antenna 0



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

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



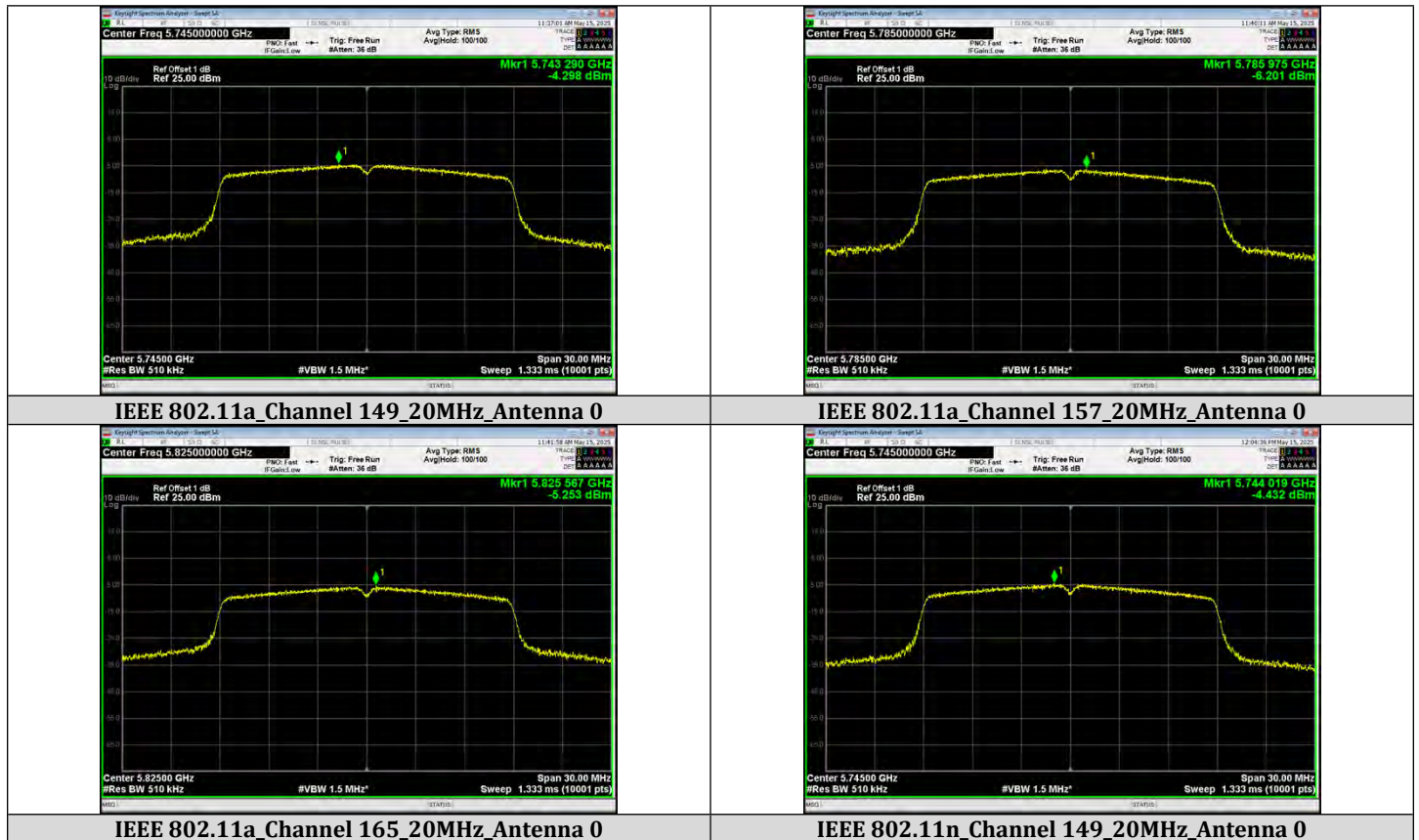
Peak Power Spectral Density

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	-4.298	-4.384	30	PASS
	157	-6.201	-6.287		PASS
	165	-5.253	-5.339		PASS
IEEE 802.11n_20	149	-4.432	-4.518		PASS
	157	-6.284	-6.370		PASS
	165	-5.439	-5.525		PASS
IEEE 802.11n_40	151	-7.458	-7.544		PASS
	159	-8.926	-9.012		PASS
IEEE 802.11ac_20	149	-4.427	-4.513		PASS
	157	-5.334	-5.420		PASS
	165	-5.803	-5.889		PASS
IEEE 802.11ac_40	151	-6.413	-6.499		PASS
	159	-8.292	-8.378		PASS
IEEE 802.11ac_80	155	-9.953	-10.039		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



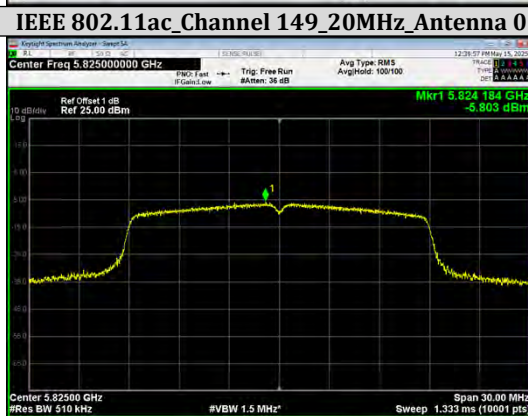
IEEE 802.11n_Channel 159_40MHz_Antenna 0



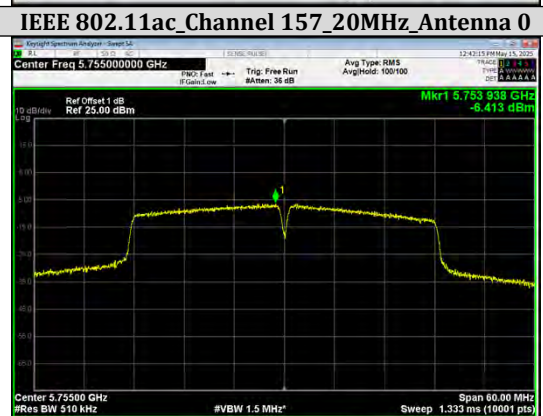
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



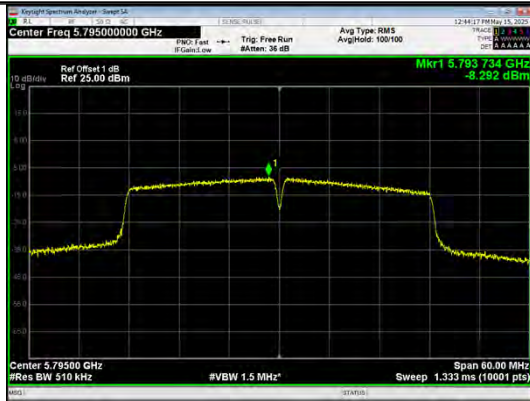
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



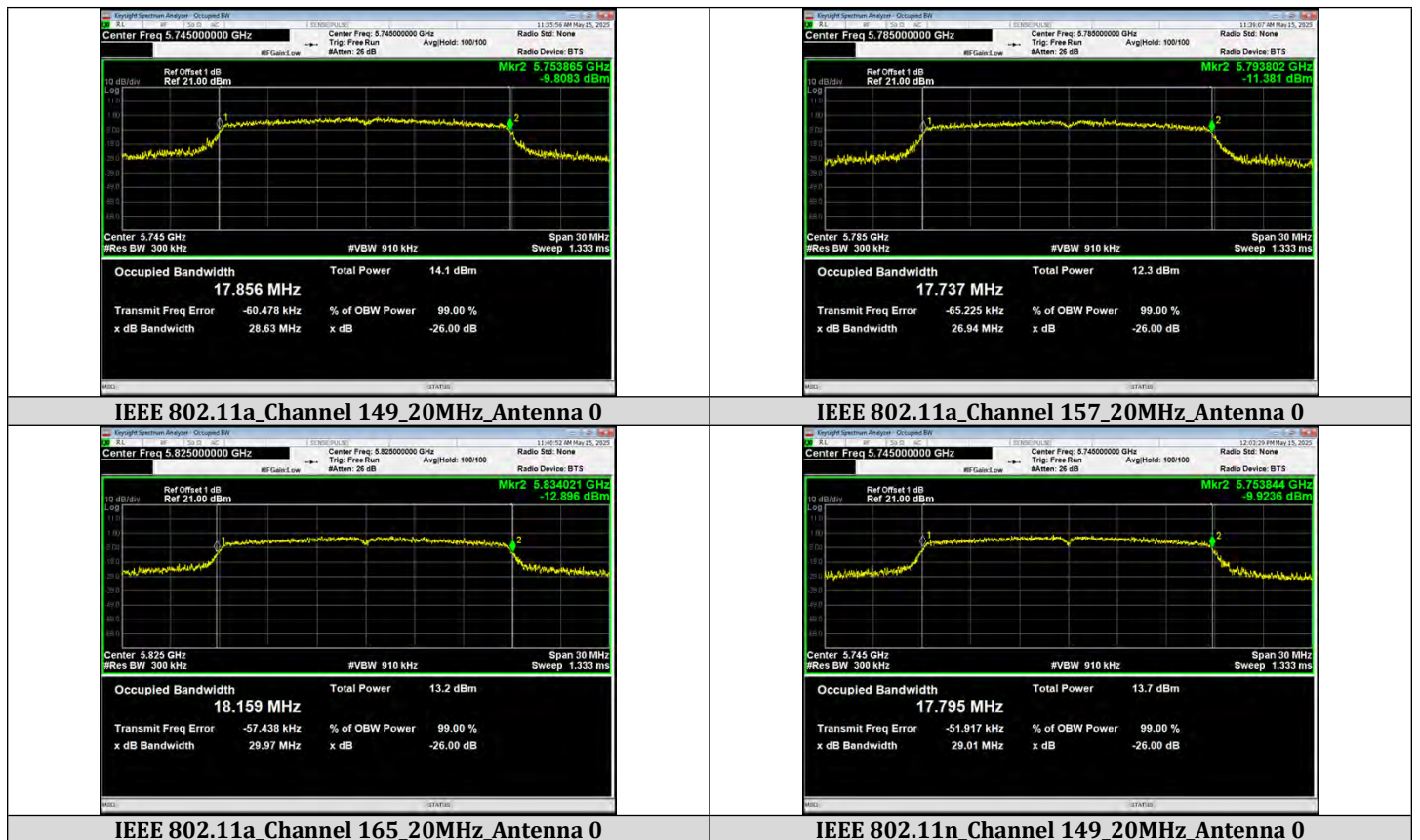
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

99% Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	0	5745	17.856
	157		5785	17.737
	165		5825	18.159
IEEE 802.11n_20	149		5745	17.795
	157		5785	17.727
	165		5825	18.195
IEEE 802.11n_40	151		5755	36.277
	159		5795	36.293
IEEE 802.11ac_20	149		5745	17.803
	157		5785	17.850
	165		5825	17.959
IEEE 802.11ac_40	151		5755	36.612
	159		5795	36.353
IEEE 802.11ac_80	155		5775	79.745

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



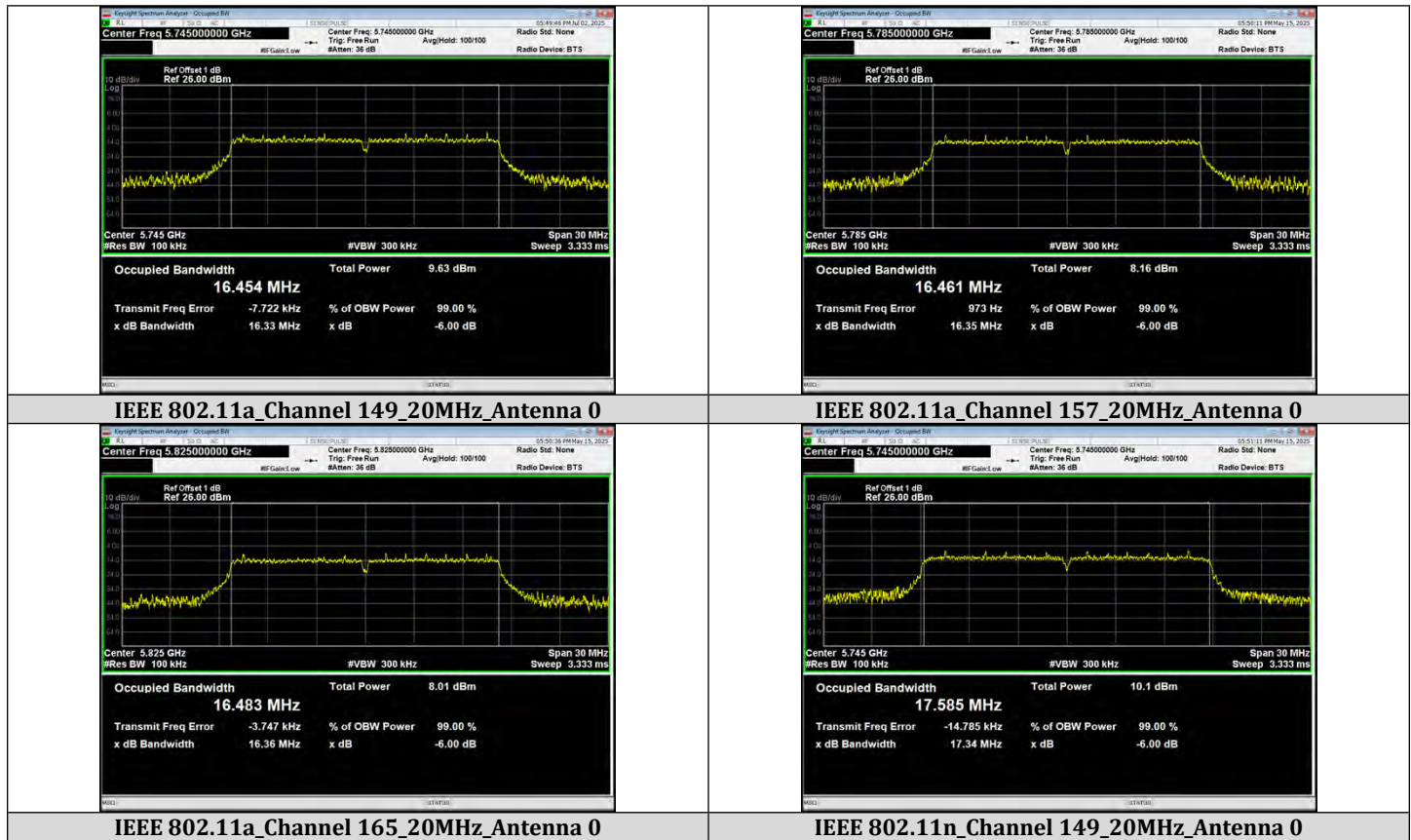
IEEE 802.11ac_Channel 159_40MHz_Antenna 0

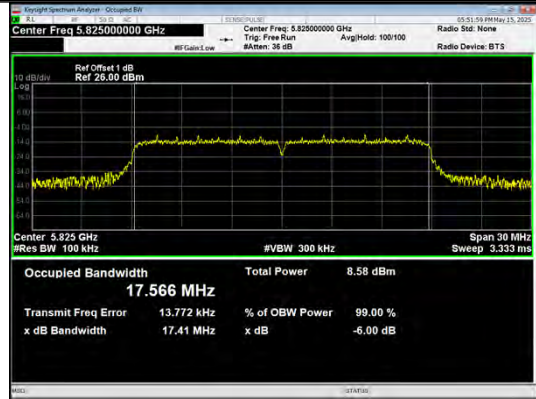
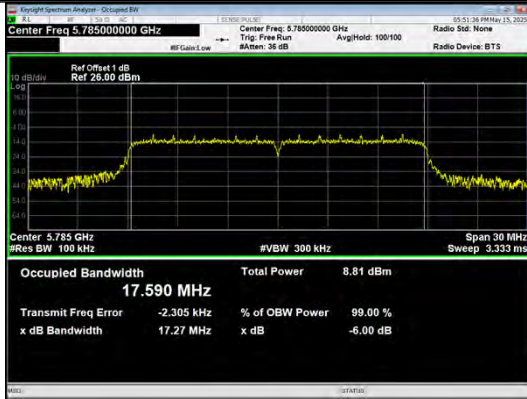


IEEE 802.11ac_Channel 155_80MHz_Antenna 0

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

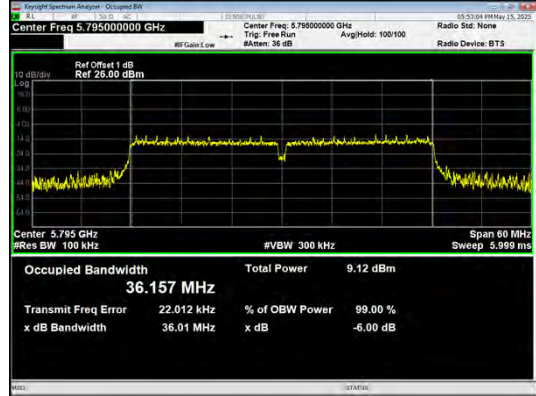
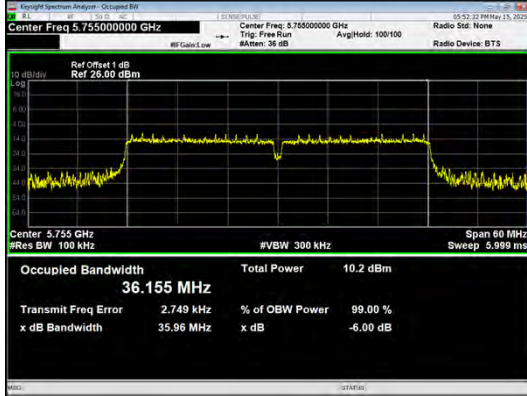
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.33	≥0.5	PASS
	157		5785	16.35		PASS
	165		5825	16.36		PASS
IEEE 802.11n_20	149		5745	17.34		PASS
	157		5785	17.27		PASS
	165		5825	17.41		PASS
IEEE 802.11n_40	151		5755	35.96		PASS
	159		5795	36.01		PASS
IEEE 802.11ac_20	149		5745	17.52		PASS
	157		5785	17.28		PASS
	165		5825	17.28		PASS
IEEE 802.11ac_40	151		5755	36.30		PASS
	159		5795	36.14		PASS
IEEE 802.11ac_80	155		5775	75.47		PASS

Test Graphs



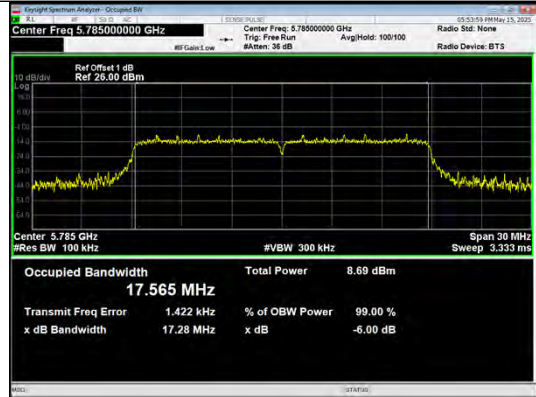
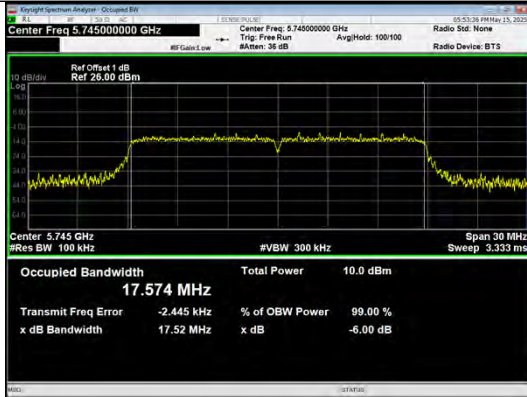
IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



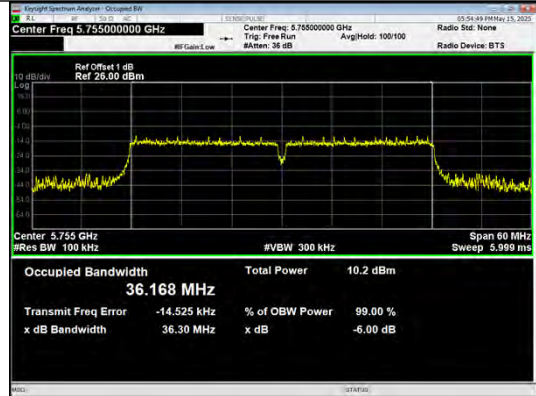
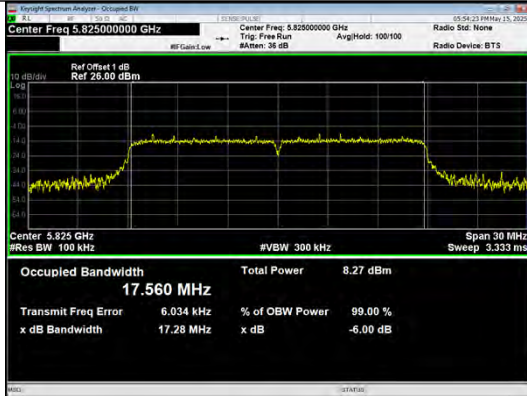
IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0



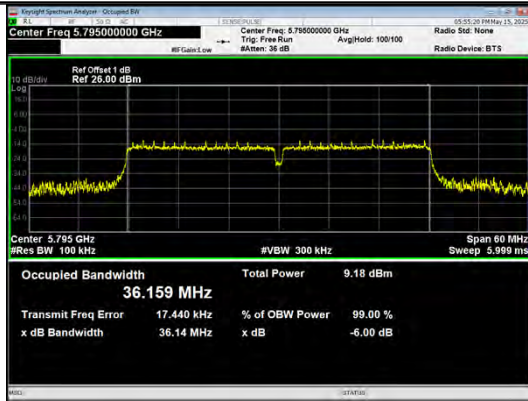
IEEE 802.11ac_Channel 149_20MHz_Antenna 0

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



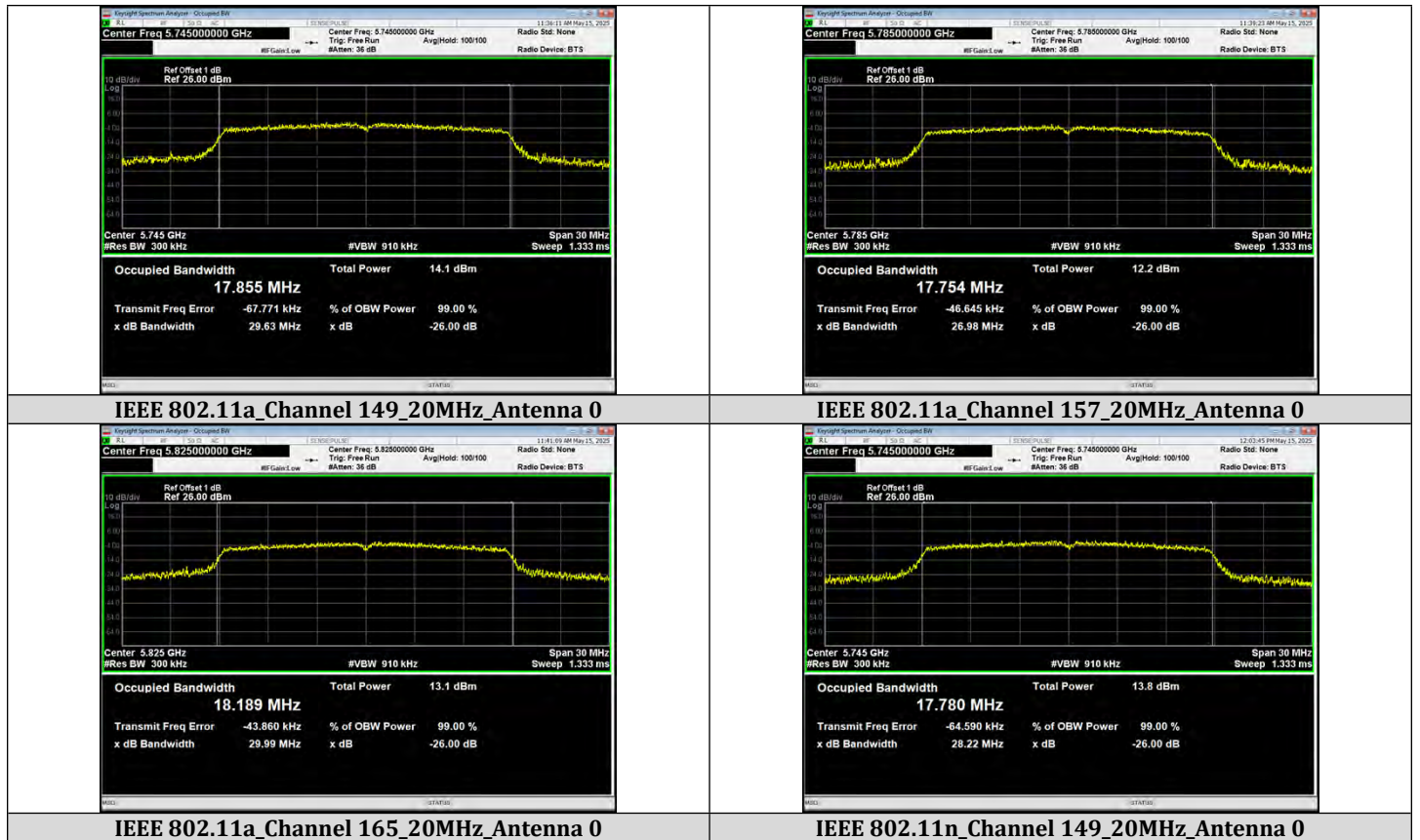
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

26dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	29.63	1.01
	157		5785	26.98	1.11
	165		5825	29.99	1.0
IEEE 802.11n_20	149		5745	28.22	1.06
	157		5785	27.15	1.1
	165		5825	29.92	1.0
IEEE 802.11n_40	151		5755	58.47	1.01
	159		5795	53.86	1.04
IEEE 802.11ac_20	149		5745	27.47	1.09
	157		5785	28.66	1.05
	165		5825	29.50	1.02
IEEE 802.11ac_40	151		5755	59.89	1.03
	159		5795	58.01	1.02
IEEE 802.11ac_80	155		5775	119.14	1.02

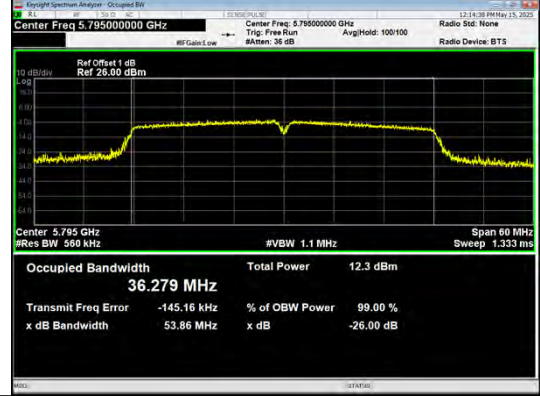
Test Graphs





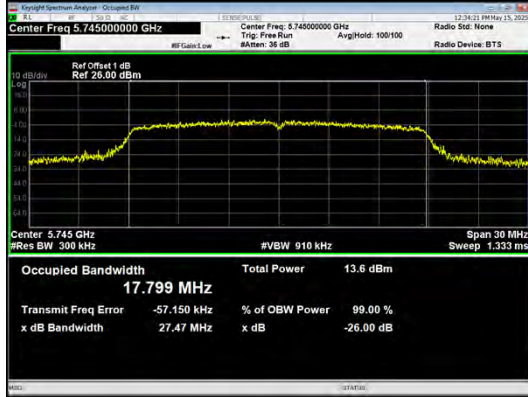
IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



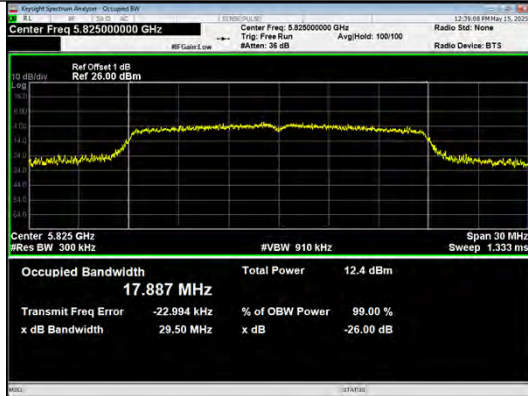
IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0



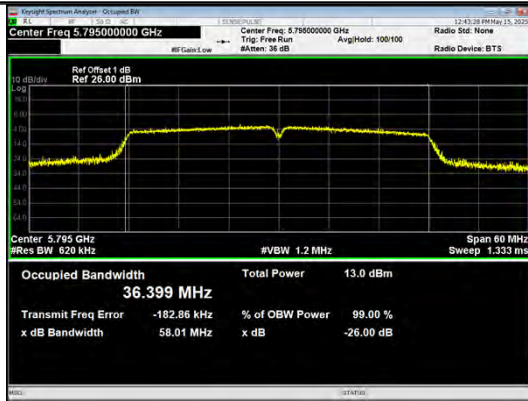
IEEE 802.11ac_Channel 149_20MHz_Antenna 0

IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



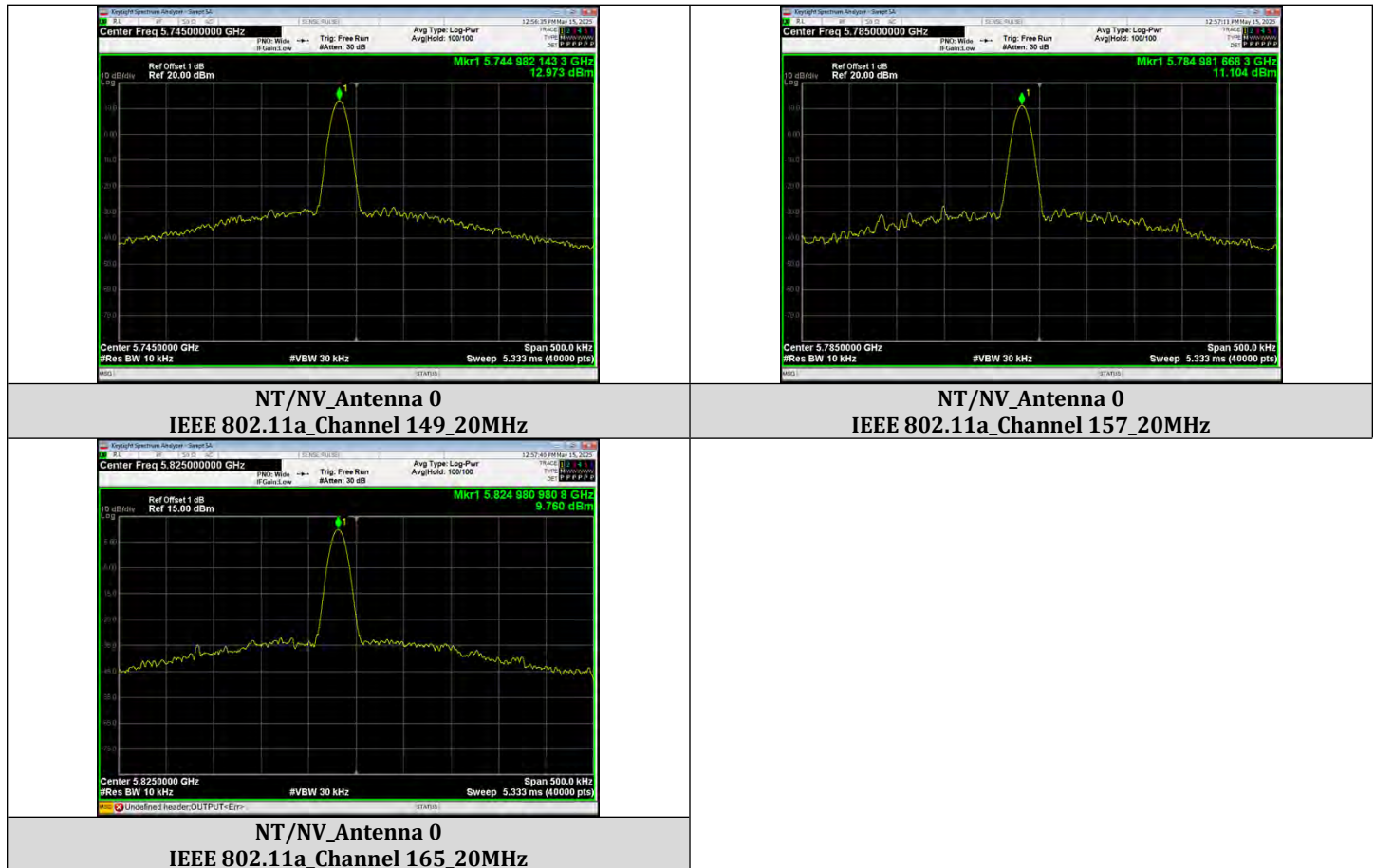
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



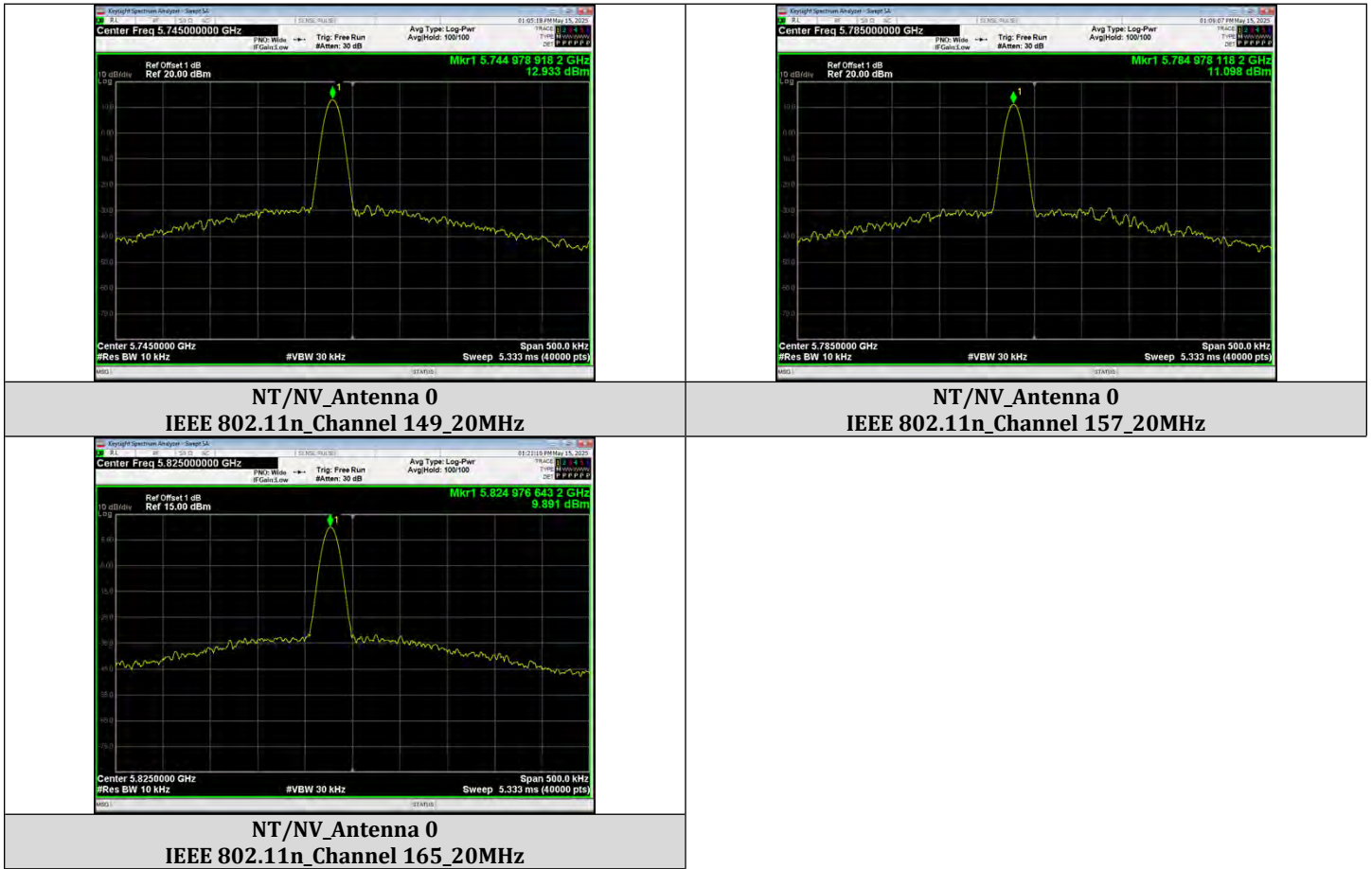
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

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

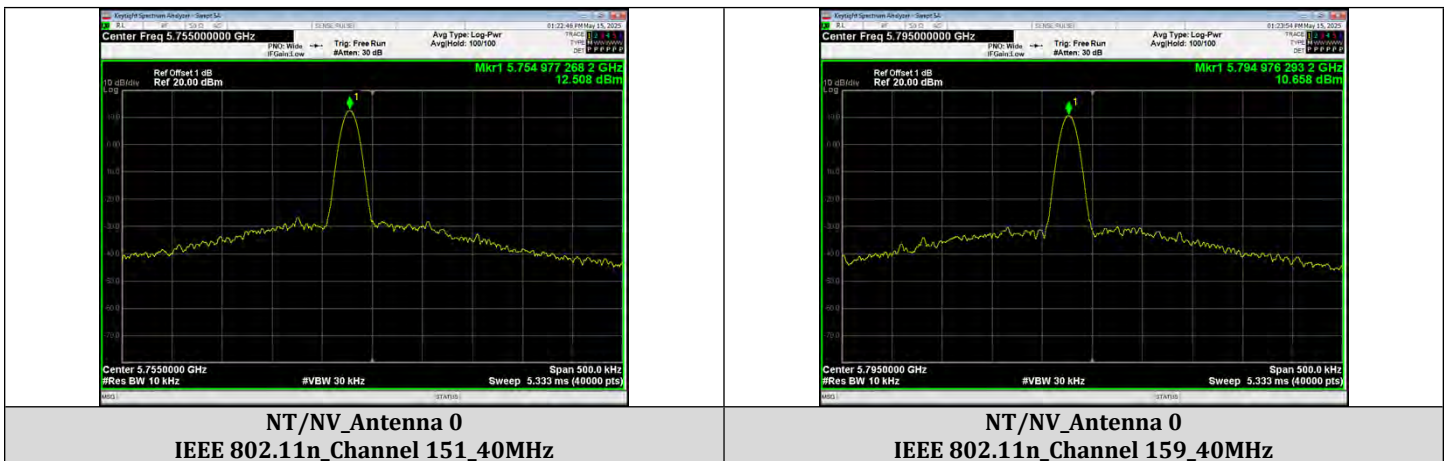
Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	149	0	5745.0	5744.982143	-3.11	Within authorized band	PASS
		157		5785.0	5784.981668	-3.17		PASS
		165		5825.0	5824.980981	-3.27		PASS
	IEEE 802.11n_20	149		5745.0	5744.978918	-3.67		PASS
		157		5785.0	5784.978118	-3.78		PASS
		165		5825.0	5824.976643	-4.01		PASS
	IEEE 802.11n_40	151		5755.0	5754.977268	-3.95		PASS
		159		5795.0	5794.976293	-4.09		PASS
		149		5745.0	5744.977668	-3.89		PASS
	IEEE 802.11ac_20	157		5785.0	5784.976593	-4.05		PASS
		165		5825.0	5824.975906	-4.14		PASS
		151		5755.0	5754.976793	-4.03		PASS
	IEEE 802.11ac_40	159		5795.0	5794.976593	-4.04		PASS
	IEEE 802.11ac_80	155		5775.0	5774.976881	-4.0		PASS

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

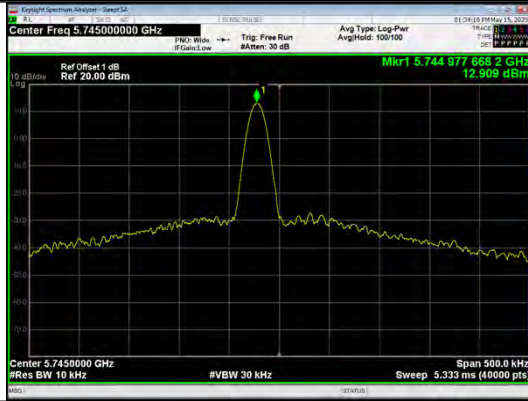
IEEE 802.11n_20



IEEE 802.11n_40



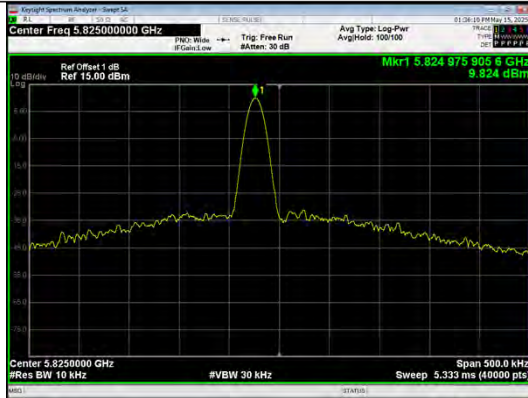
IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 149_20MHz

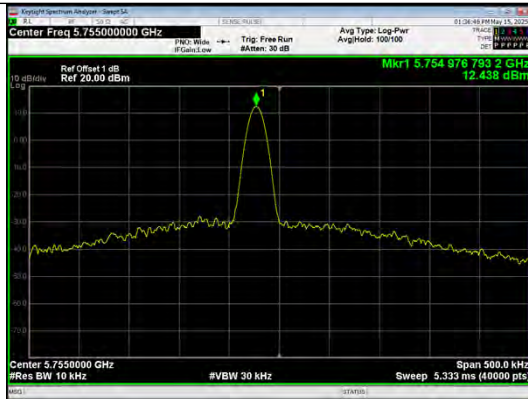


NT/NV_Antenna 0
IEEE 802.11ac_Channel 157_20MHz

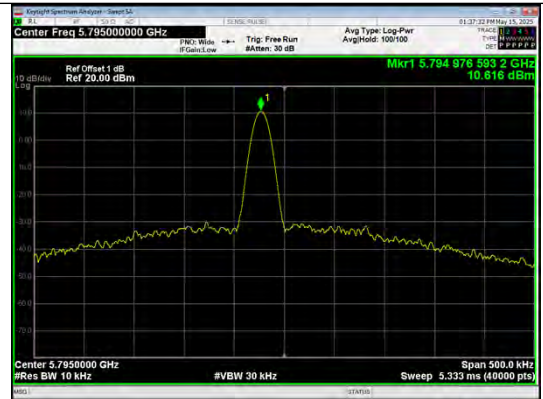


NT/NV_Antenna 0
IEEE 802.11ac_Channel 165_20MHz

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 *****