



Frequency Stability

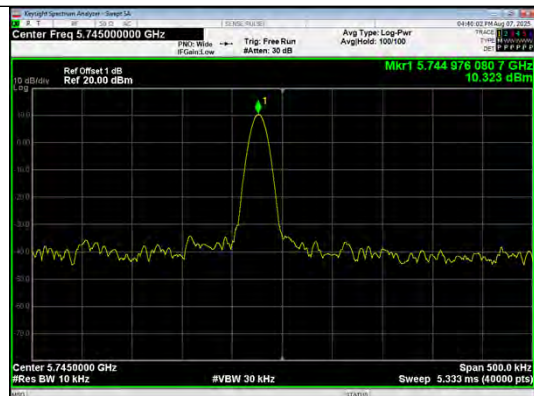
Test Result

Condition	Mode	Ch.	RU & Index	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State	
NT/NV	IEEE 802.11a	149	N/A	0	5745.0	5744.976081	-4.16	Within authorized band	PASS	
		157			5785.0	5784.975918	-4.16		PASS	
		165			5825.0	5824.975818	-4.15		PASS	
	IEEE 802.11n_20	149			5745.0	5744.976181	-4.15		PASS	
		157			5785.0	5784.976206	-4.11		PASS	
		165			5825.0	5824.975931	-4.13		PASS	
	IEEE 802.11n_40	151			5755.0	5754.976093	-4.15		PASS	
		159			5795.0	5794.976006	-4.14		PASS	
	IEEE 802.11ac_20	149			5745.0	5744.976143	-4.15		PASS	
		157			5785.0	5784.976281	-4.1		PASS	
		165			5825.0	5824.975968	-4.13		PASS	
	IEEE 802.11ac_40	151			5755.0	5754.976281	-4.12		PASS	
		159			5795.0	5794.975968	-4.15		PASS	
	IEEE 802.11ac_80	155			5775.0	5774.976331	-4.1		PASS	
	IEEE 802.11ax_20	149	SU		5745.0	5744.976368	-4.11		PASS	
		157			5785.0	5784.976231	-4.11		PASS	
		165			5825.0	5824.976618	-4.01		PASS	
		IEEE 802.11ax_40			151	5755.0	5754.976581		-4.07	PASS
					159	5795.0	5794.976706		-4.02	PASS
	IEEE 802.11ax_80	155			5775.0	5774.976656	-4.04		PASS	

Test Graphs

NT/NV

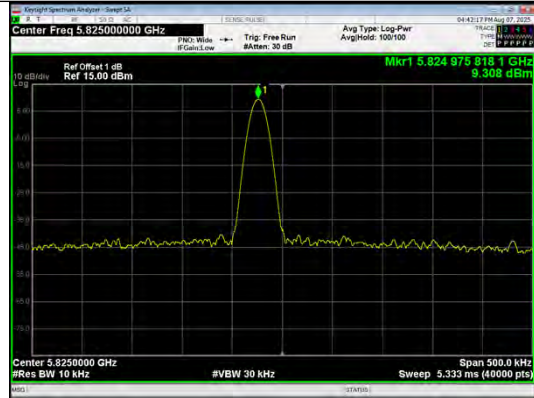
IEEE 802.11a



NT/NV_Antenna 0
IEEE 802.11a_Channel 149_20MHz

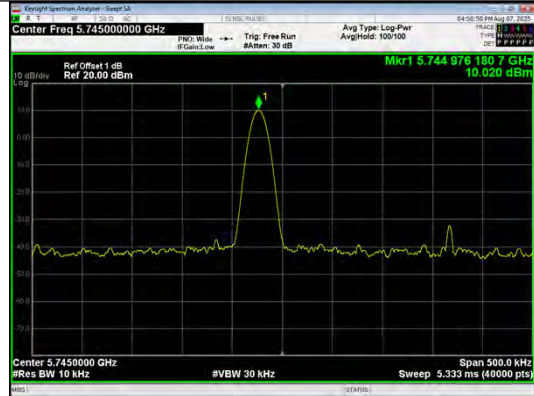


NT/NV_Antenna 0
IEEE 802.11a_Channel 157_20MHz

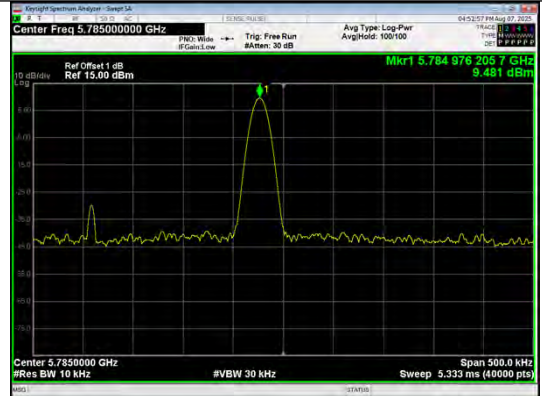


NT/NV_Antenna 0
IEEE 802.11a_Channel 165_20MHz

IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 149_20MHz

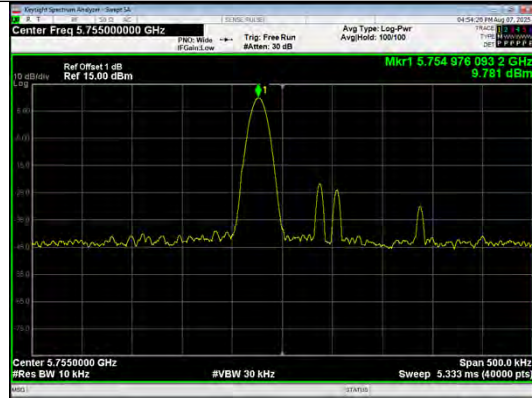


NT/NV_Antenna 0
IEEE 802.11n_Channel 157_20MHz

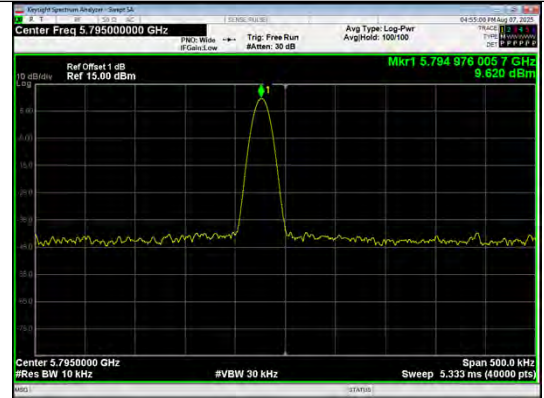


NT/NV_Antenna 0
IEEE 802.11n_Channel 165_20MHz

IEEE 802.11n_40

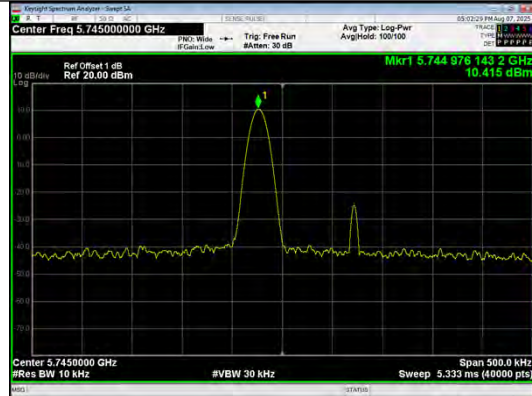


NT/NV_Antenna 0
IEEE 802.11n_Channel 151_40MHz

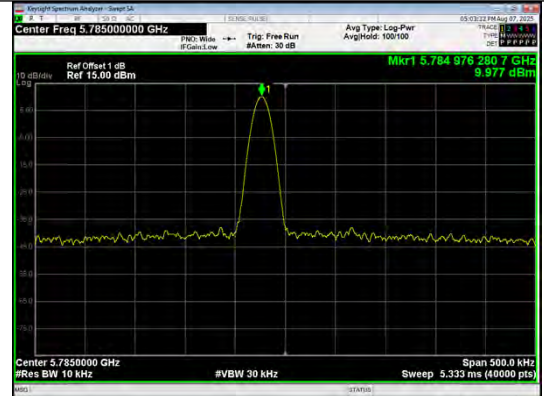


NT/NV_Antenna 0
IEEE 802.11n_Channel 159_40MHz

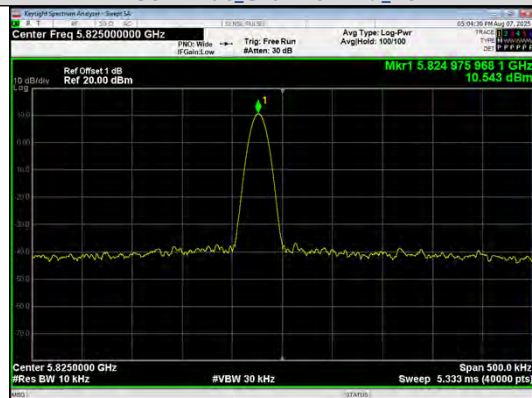
IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 149_20MHz

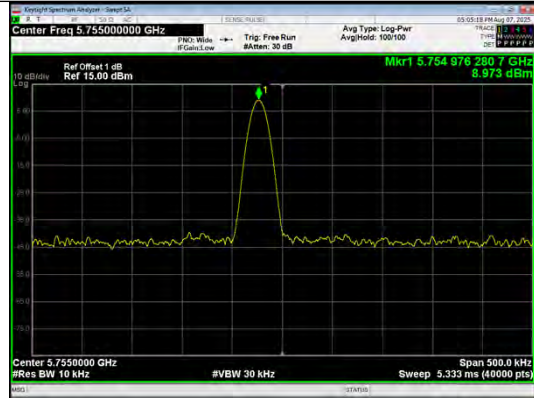


NT/NV_Antenna 0
IEEE 802.11ac_Channel 157_20MHz

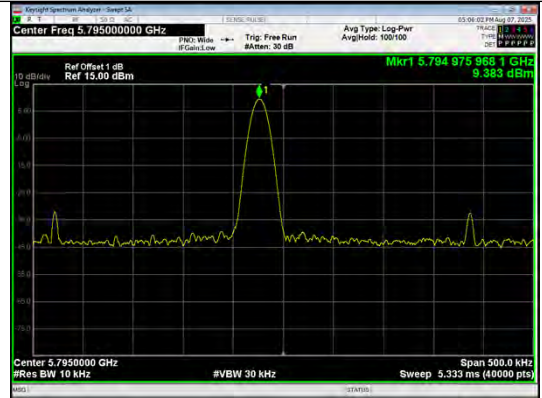


NT/NV_Antenna 0
IEEE 802.11ac_Channel 165_20MHz

IEEE 802.11ac_40

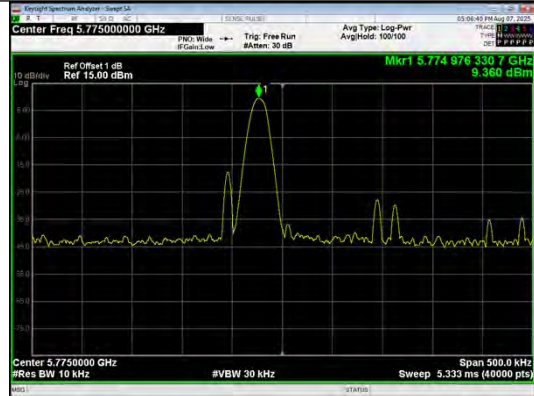


NT/NV_Antenna 0
IEEE 802.11ac_Channel 151_40MHz



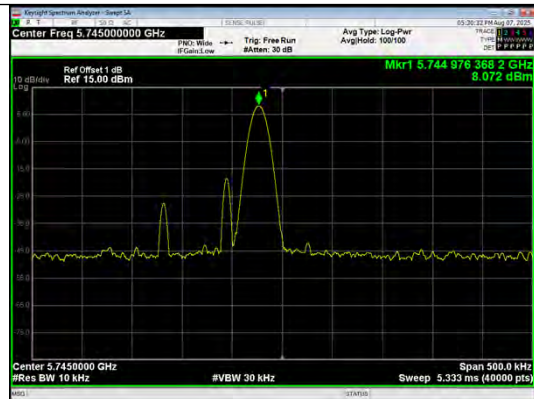
NT/NV_Antenna 0
IEEE 802.11ac_Channel 159_40MHz

IEEE 802.11ac_80

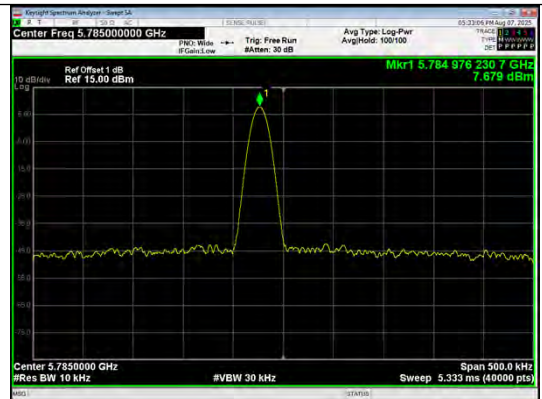


NT/NV_Antenna 0
IEEE 802.11ac_Channel 155_80MHz

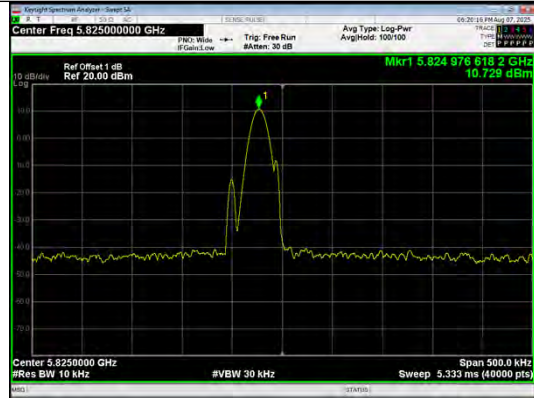
IEEE 802.11ax_20



NT/NV_Antenna 0
IEEE 802.11ax_Channel 149_20MHz

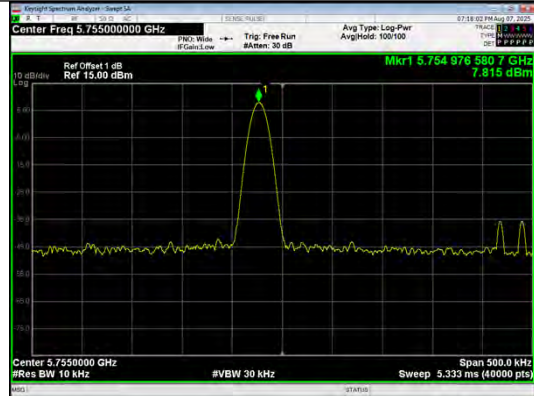


NT/NV_Antenna 0
IEEE 802.11ax_Channel 157_20MHz

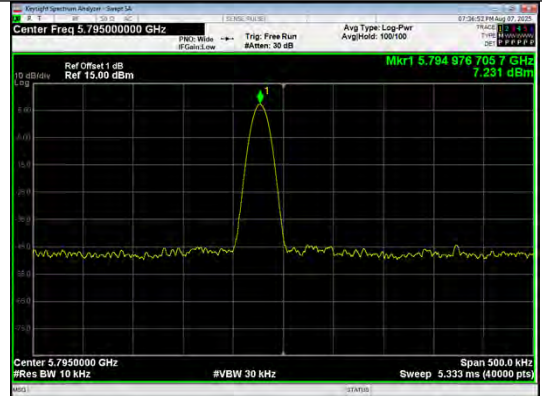


NT/NV_Antenna 0
IEEE 802.11ax_Channel 165_20MHz

IEEE 802.11ax_40

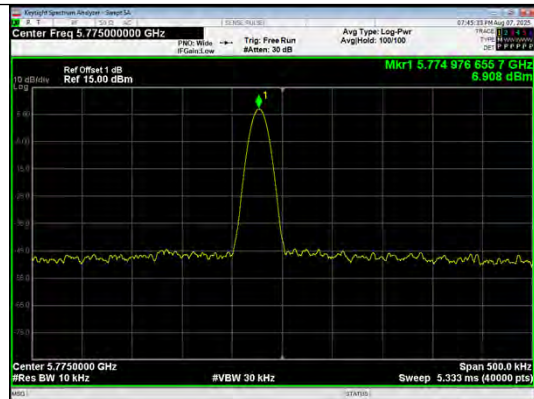


NT/NV_Antenna 0
IEEE 802.11ax_Channel 151_40MHz



NT/NV_Antenna 0
IEEE 802.11ax_Channel 159_40MHz

IEEE 802.11ax_80



NT/NV_Antenna 0
IEEE 802.11ax_Channel 155_80MHz

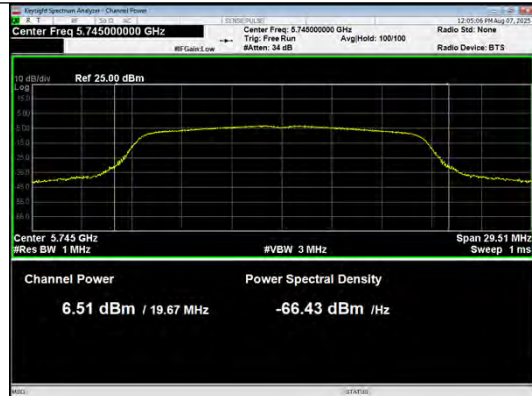


Conducted Output Power

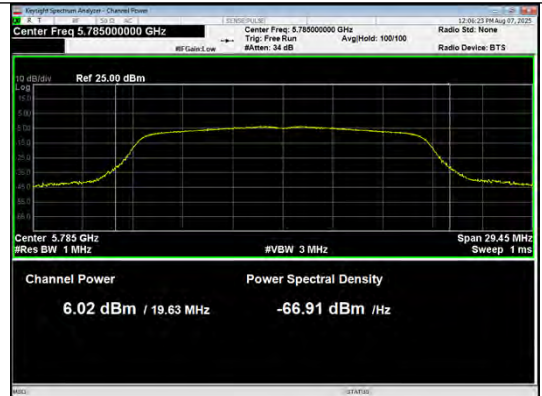
Conducted output power

Mode	Channel	RU & Index	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	N/A	6.51	6.51	≤30	PASS
	157		6.02	6.02	≤30	PASS
	165		6.62	6.62	≤30	PASS
IEEE 802.11n_20	149		7.96	7.96	≤30	PASS
	157		7.68	7.68	≤30	PASS
	165		8.17	8.17	≤30	PASS
IEEE 802.11n_40	151		8.21	8.21	≤30	PASS
	159		7.89	7.89	≤30	PASS
	149		8.09	8.09	≤30	PASS
IEEE 802.11ac_20	157		7.68	7.68	≤30	PASS
	165		8.30	8.3	≤30	PASS
	151		8.27	8.27	≤30	PASS
IEEE 802.11ac_40	159		7.98	7.98	≤30	PASS
	155		7.48	7.48	≤30	PASS
IEEE 802.11ax_20	149	SU	8.46	8.46	≤30	PASS
	157		8.16	8.16	≤30	PASS
	165		8.33	8.33	≤30	PASS
IEEE 802.11ax_40	151		8.23	8.23	≤30	PASS
	159		8.10	8.1	≤30	PASS
	155		7.75	7.75	≤30	PASS

Note: Corrected Value = Antenna Power + Duty Cycle Factor.



Conducted AVG output power
IEEE 802.11a_Channel 149_Antenna 0



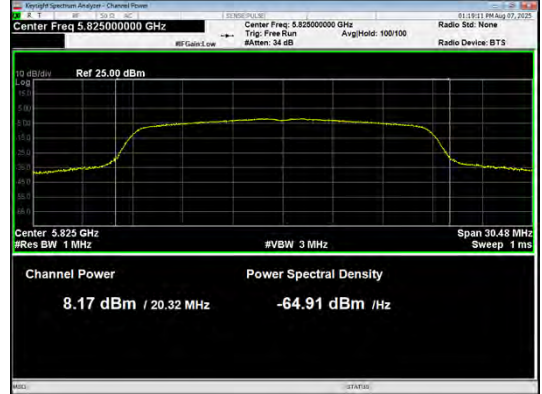
Conducted AVG output power
IEEE 802.11a_Channel 157_Antenna 0



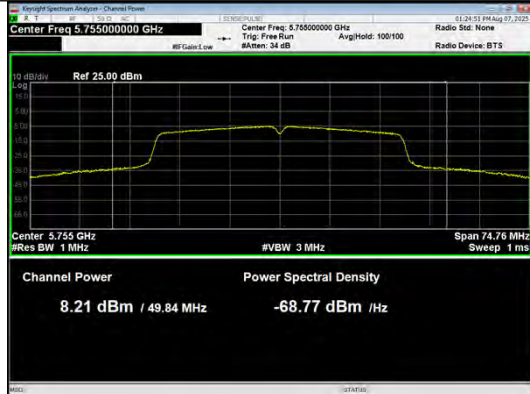
Conducted AVG output power IEEE 802.11a_Channel 165_Antenna 0



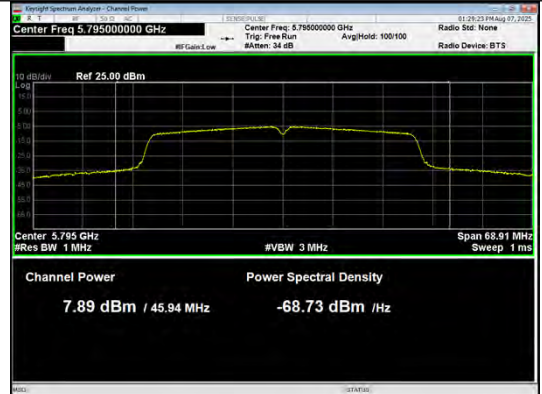
Conducted AVG output power IEEE 802.11n_20_Channel 149_Antenna 0



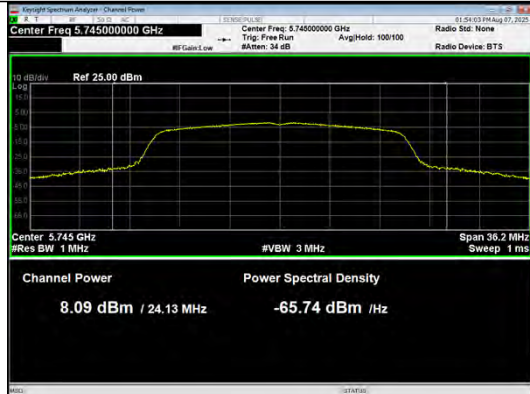
Conducted AVG output power IEEE 802.11n_20_Channel 157_Antenna 0



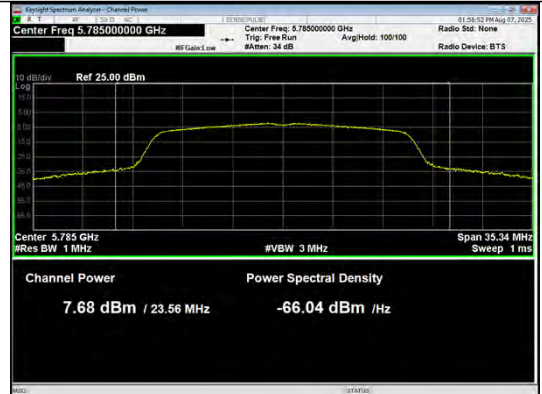
Conducted AVG output power IEEE 802.11n_20_Channel 165_Antenna 0



Conducted AVG output power IEEE 802.11n_40_Channel 151_Antenna 0

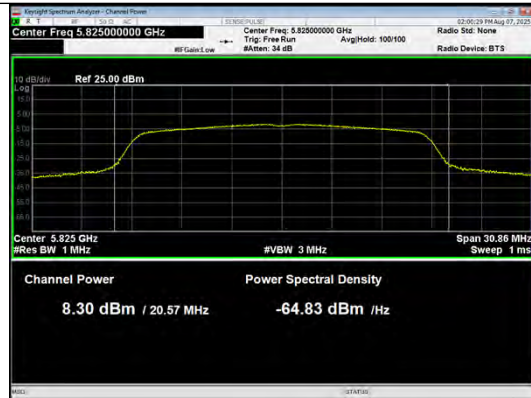


Conducted AVG output power IEEE 802.11n_40_Channel 159_Antenna 0



Conducted AVG output power IEEE 802.11ac_20_Channel 149_Antenna 0

Conducted AVG output power IEEE 802.11ac_20_Channel 157_Antenna 0



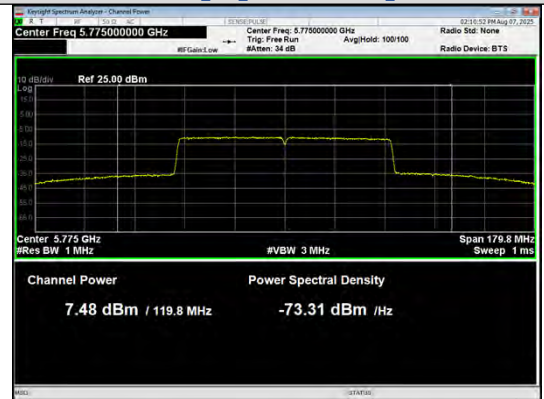
Conducted AVG output power
 IEEE 802.11ac_20_Channel 165_Antenna 0



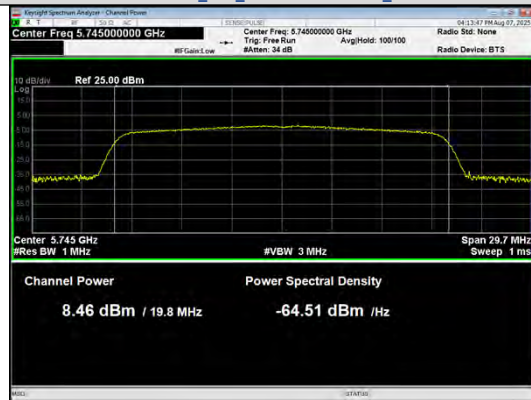
Conducted AVG output power
 IEEE 802.11ac_40_Channel 151_Antenna 0



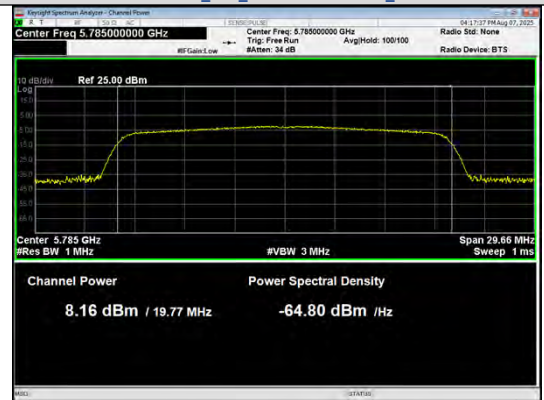
Conducted AVG output power
 IEEE 802.11ac_40_Channel 159_Antenna 0



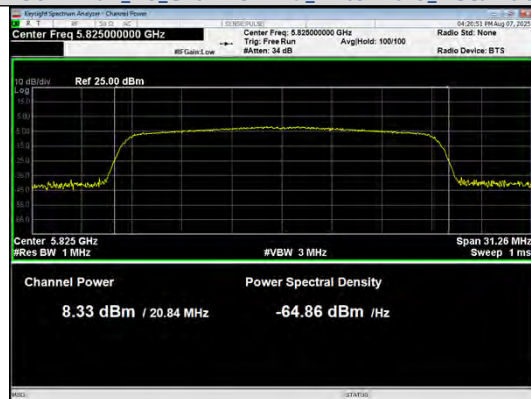
Conducted AVG output power
 IEEE 802.11ac_80_Channel 155_Antenna 0



Conducted AVG output power
 IEEE 802.11ax_20_Channel 149_Antenna 0_RU&Index SU



Conducted AVG output power
 IEEE 802.11ax_20_Channel 157_Antenna 0_RU&Index SU



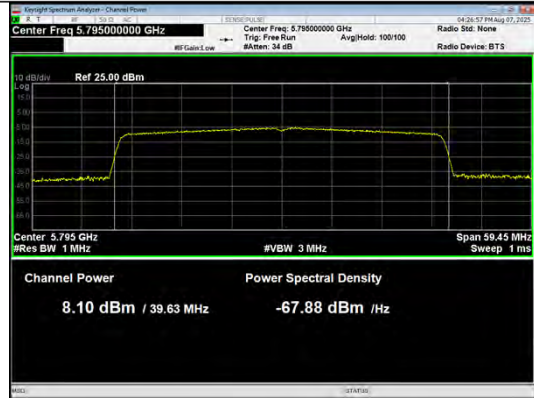
Conducted AVG output power



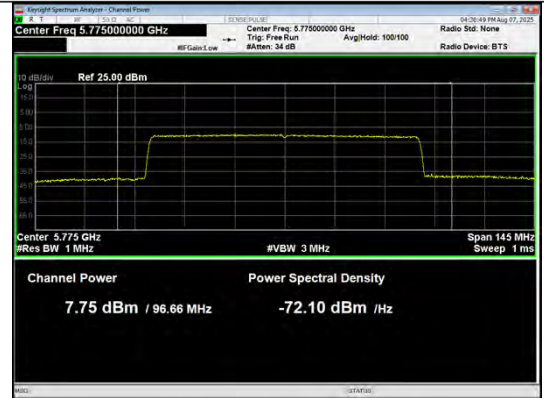
Conducted AVG output power



IEEE 802.11ax_20_Channel 165_Antenna 0_RU&Index SU



IEEE 802.11ax_40_Channel 151_Antenna 0_RU&Index SU



Conducted AVG output power
IEEE 802.11ax_40_Channel 159_Antenna 0_RU&Index SU

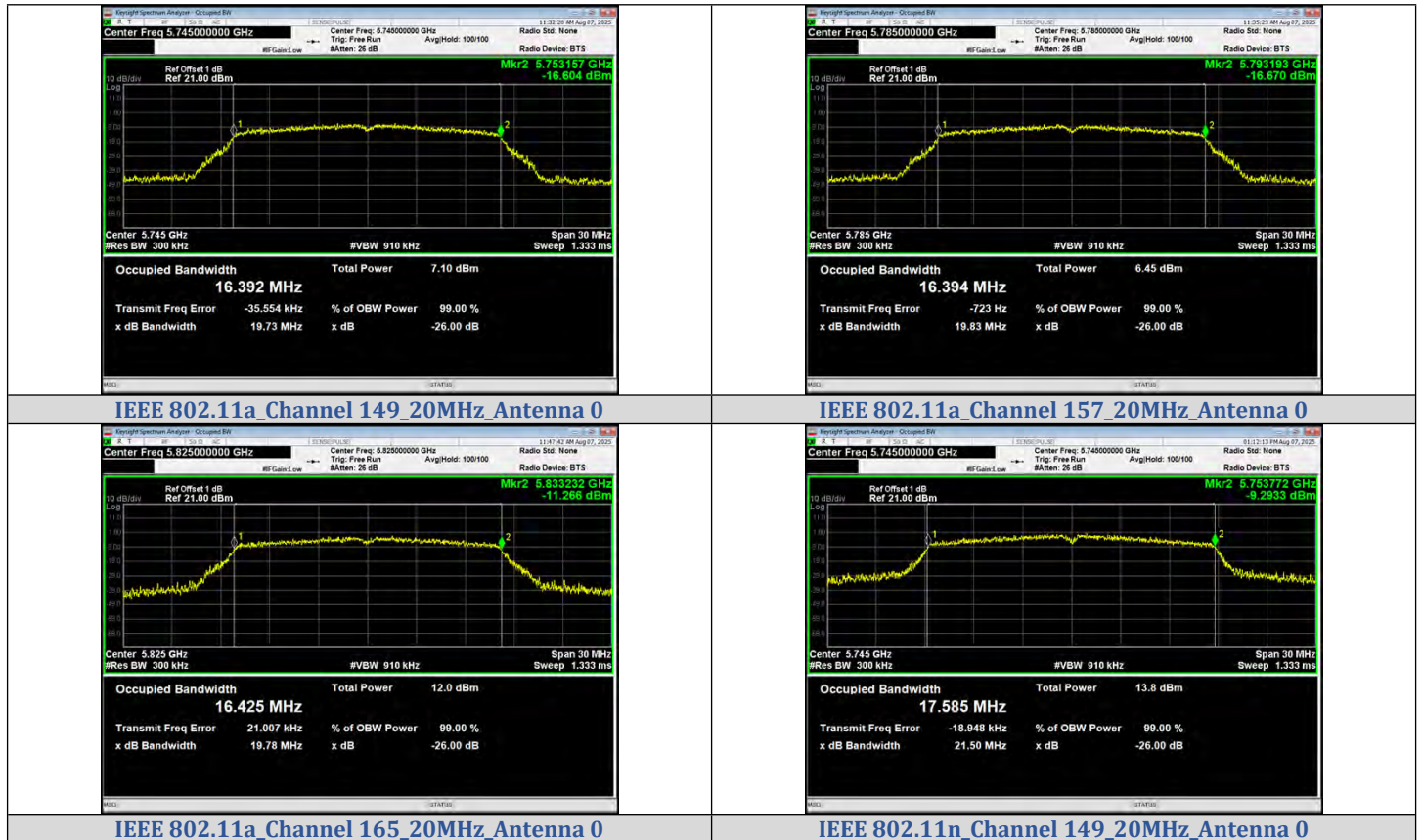
Conducted AVG output power
IEEE 802.11ax_80_Channel 155_Antenna 0_RU&Index SU

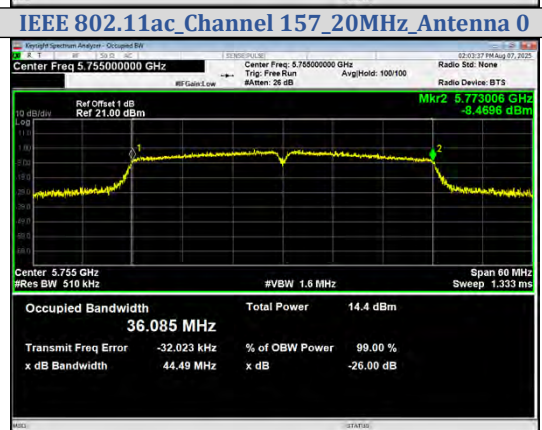
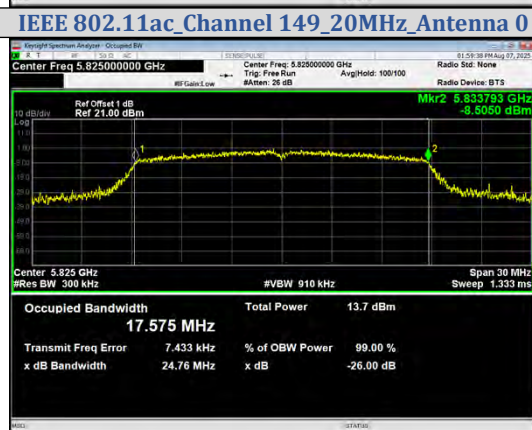
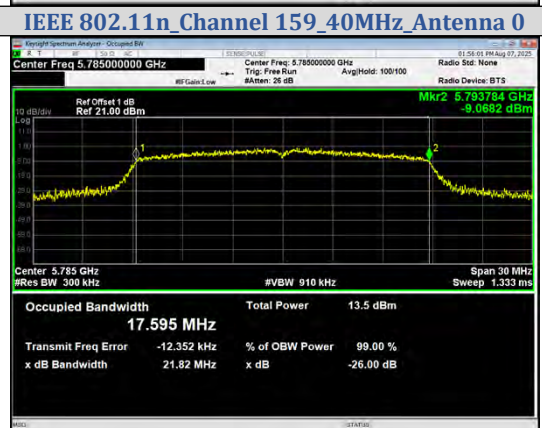
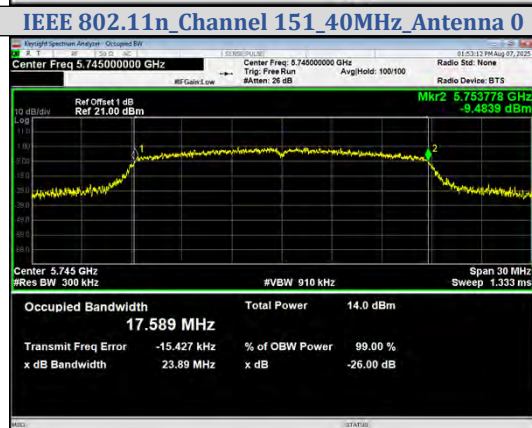
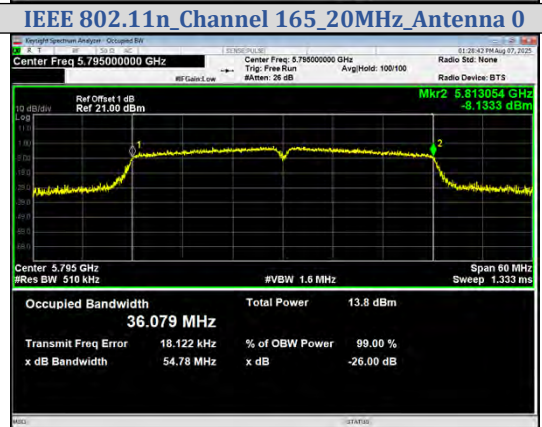
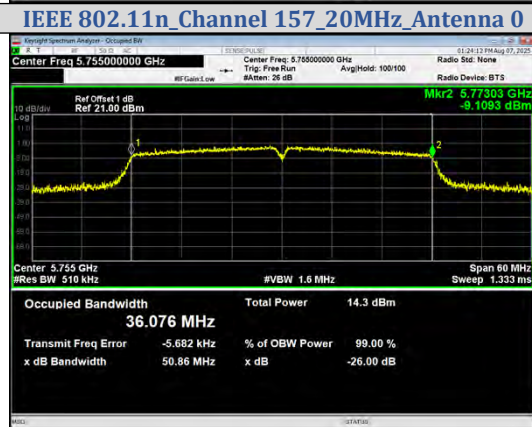
99% Bandwidth

Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	N/A	0	5745	16.392
	157			5785	16.394
	165			5825	16.425
IEEE 802.11n_20	149			5745	17.585
	157			5785	17.564
	165			5825	17.553
IEEE 802.11n_40	151			5755	36.076
	159			5795	36.079
IEEE 802.11ac_20	149			5745	17.589
	157			5785	17.595
	165			5825	17.575
IEEE 802.11ac_40	151			5755	36.085
	159			5795	36.102
IEEE 802.11ac_80	155			5775	75.910
IEEE 802.11ax_20	149	SU	5745	18.731	
	157		5785	18.737	
	165		5825	18.771	
IEEE 802.11ax_40	151		5755	37.571	
	159		5795	37.573	
IEEE 802.11ax_80	155		5775	77.371	

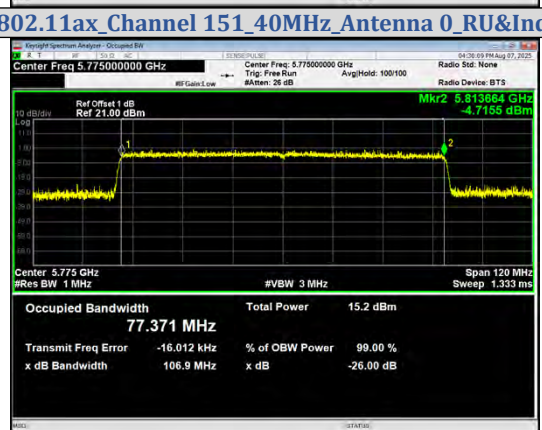
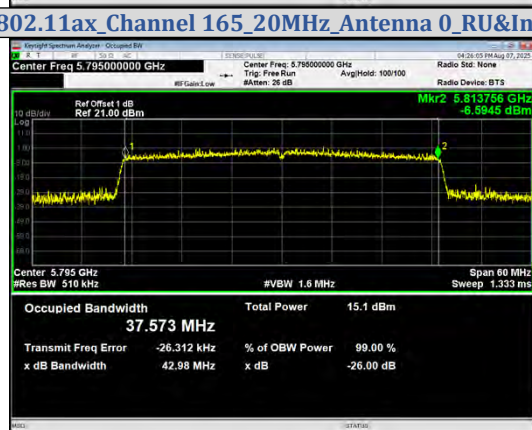
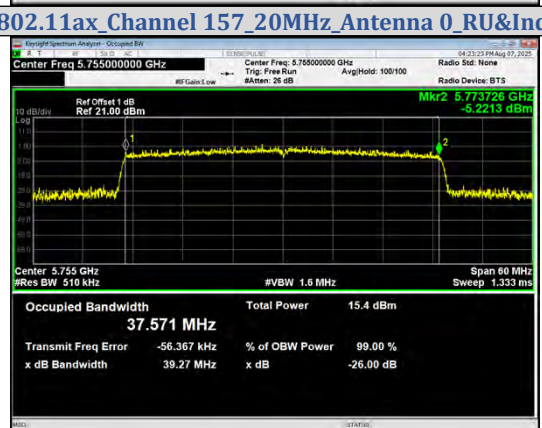
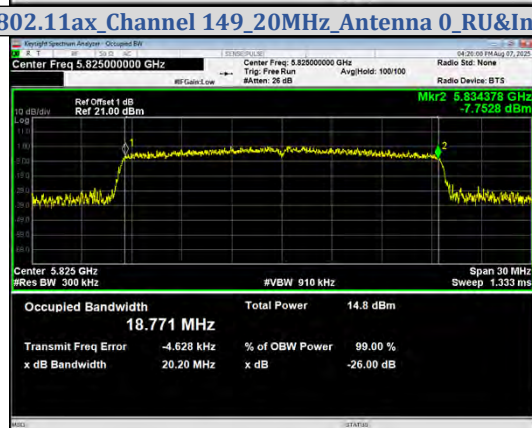
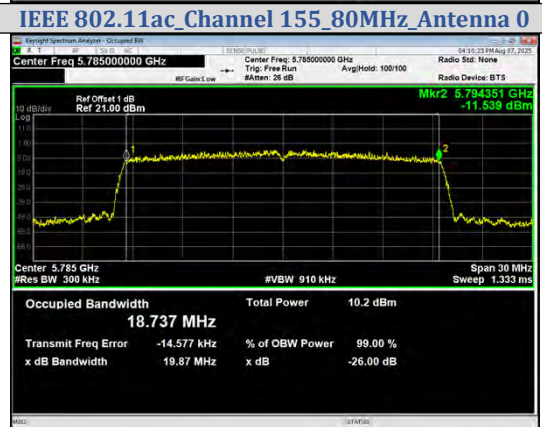
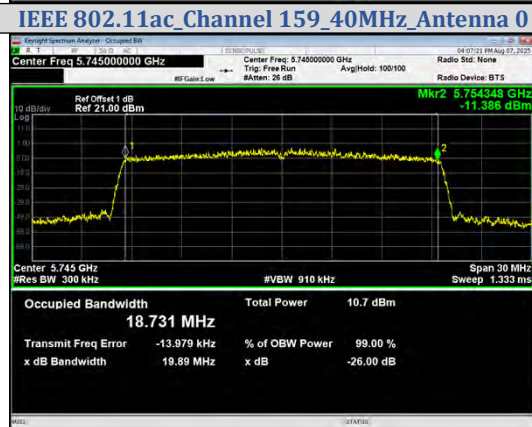
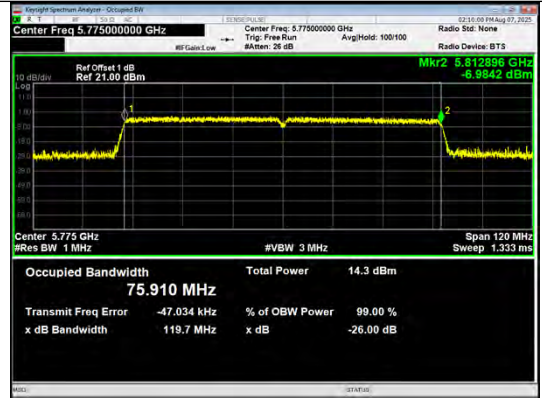
Test Graphs





IEEE 802.11ac Channel 165 20MHz Antenna 0

IEEE 802.11ac Channel 151 40MHz Antenna 0

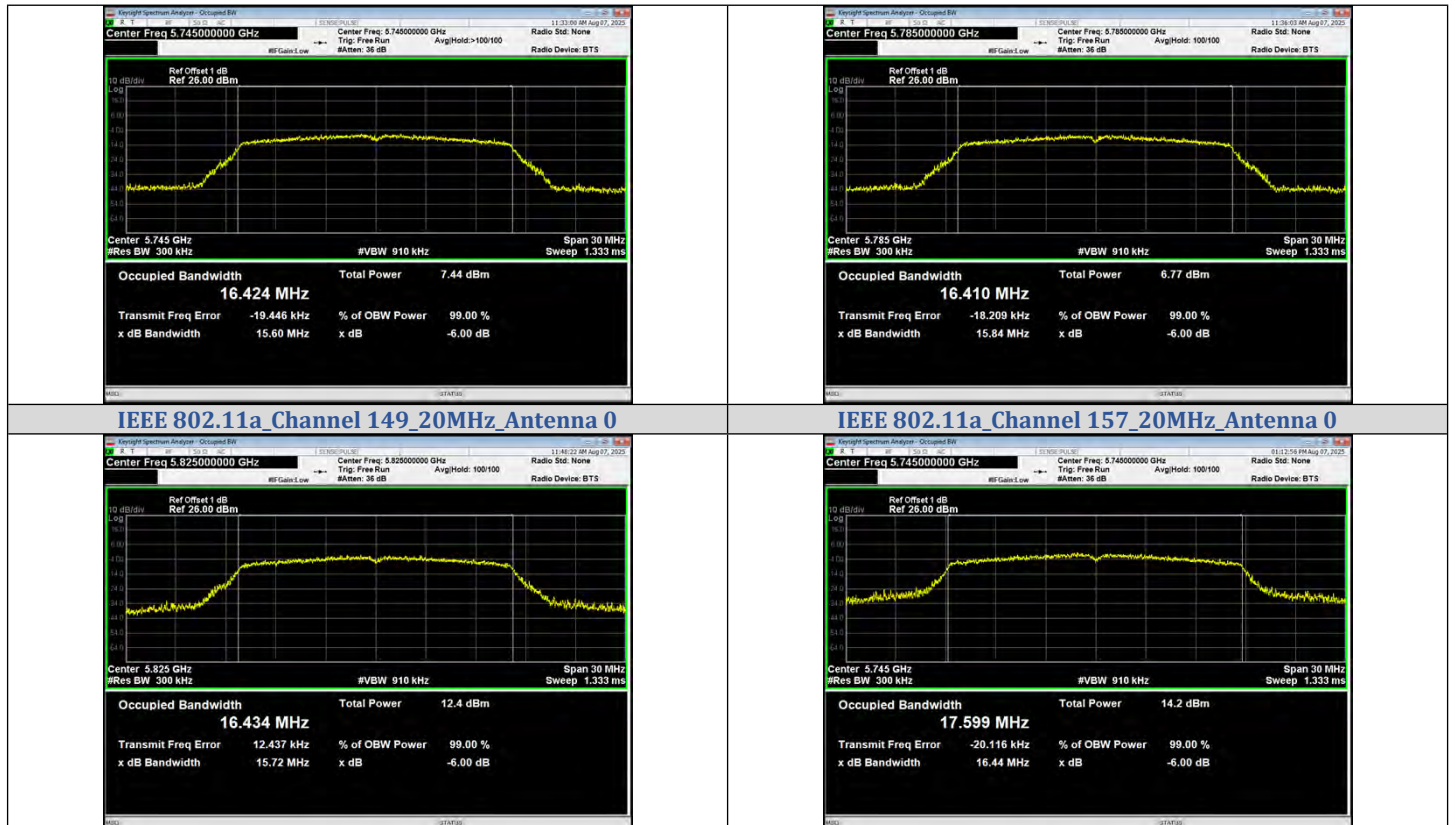


6dB Bandwidth

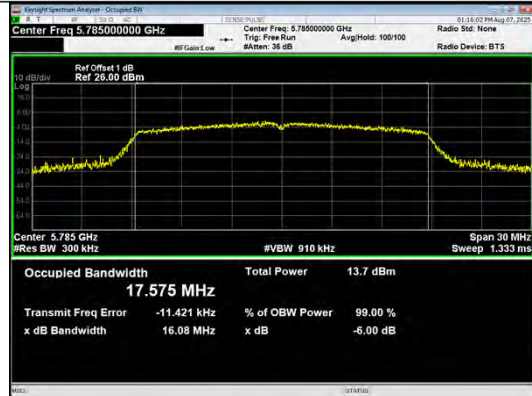
Test Result

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	N/A	0	5745	15.60	≥0.5	PASS
	157			5785	15.84		PASS
	165			5825	15.72		PASS
IEEE 802.11n_20	149			5745	16.44		PASS
	157			5785	16.08		PASS
	165			5825	16.74		PASS
IEEE 802.11n_40	151			5755	34.46		PASS
	159			5795	35.68		PASS
IEEE 802.11ac_20	149			5745	16.55		PASS
	157			5785	16.62		PASS
	165			5825	16.43		PASS
IEEE 802.11ac_40	151			5755	34.65		PASS
	159			5795	35.41		PASS
IEEE 802.11ac_80	155			5775	76.34		PASS
IEEE 802.11ax_20	149	SU	5745	18.41	PASS		
	157		5785	18.49	PASS		
	165		5825	18.01	PASS		
IEEE 802.11ax_40	151		5755	36.24	PASS		
	159		5795	37.61	PASS		
IEEE 802.11ax_80	155		5775	77.80	PASS		

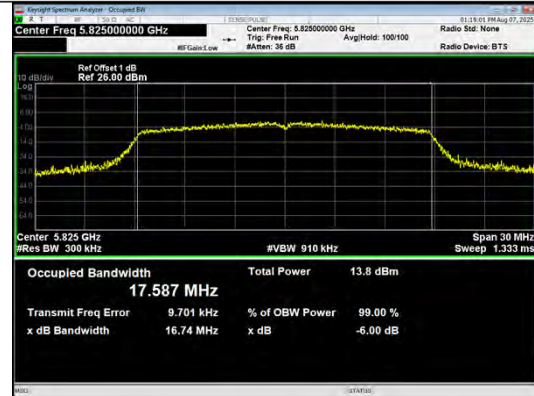
Test Graphs



IEEE 802.11a_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 149_20MHz_Antenna 0



IEEE 802.11n_Channel 157_20MHz_Antenna 0



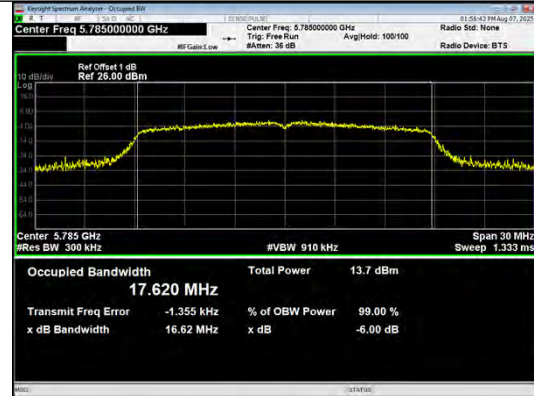
IEEE 802.11n_Channel 165_20MHz_Antenna 0



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

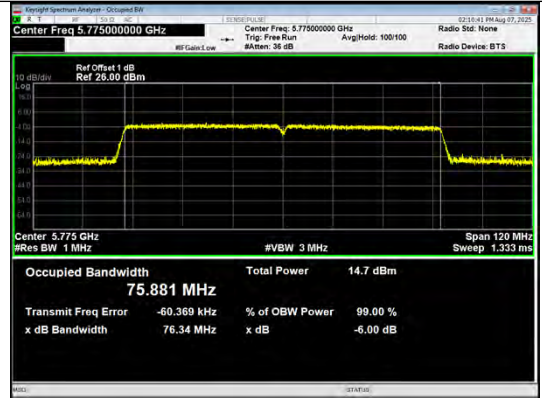


IEEE 802.11ac_Channel 165_20MHz_Antenna 0

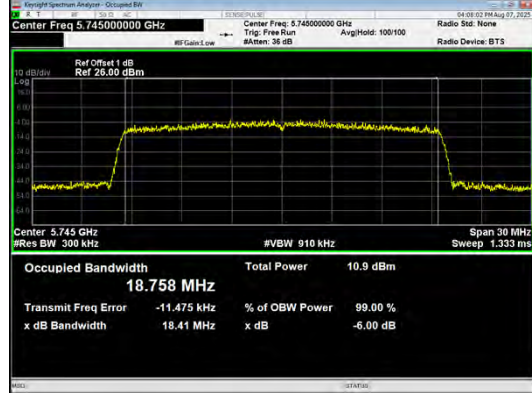
IEEE 802.11ac_Channel 151_40MHz_Antenna 0



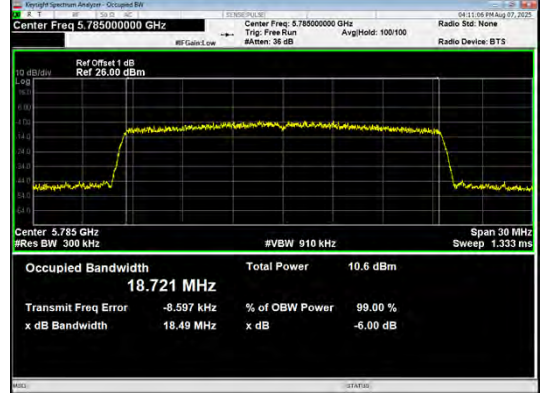
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



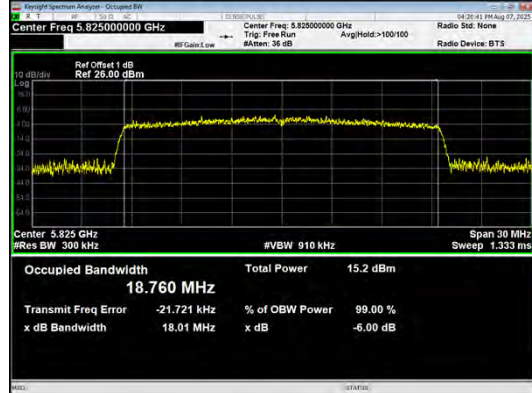
IEEE 802.11ac_Channel 155_80MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0



IEEE 802.11ax_Channel 149_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 157_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 165_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 151_40MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index SU

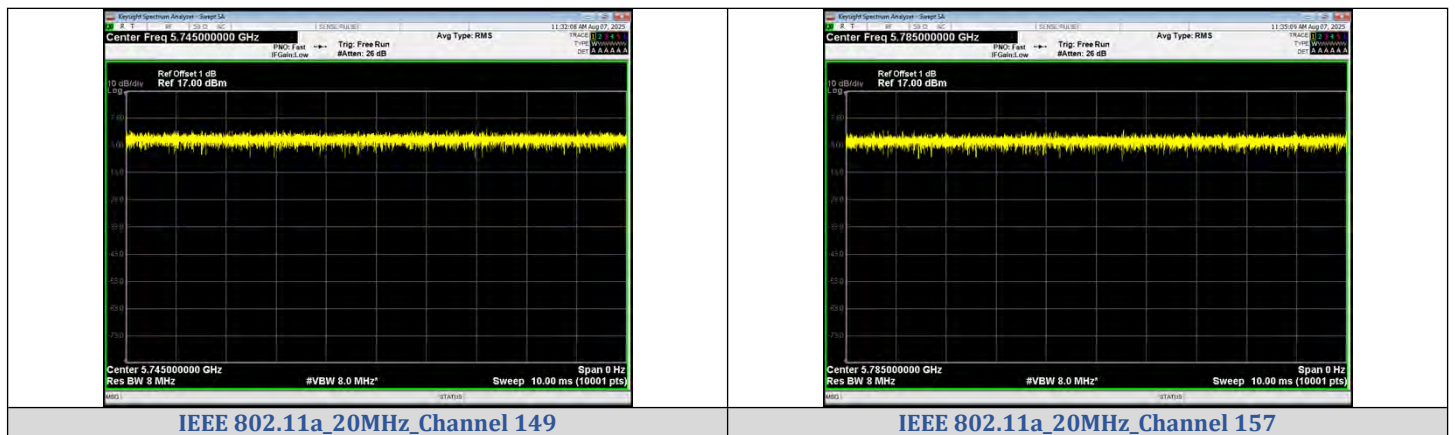


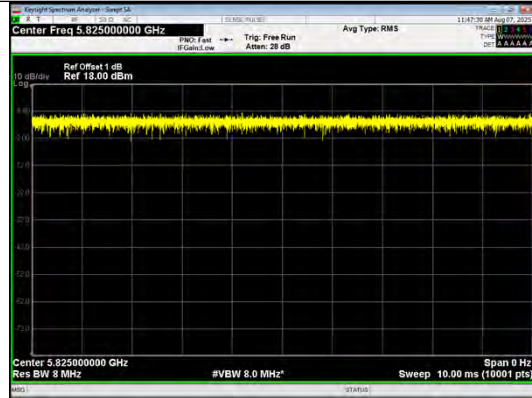
Duty Cycle

Test Result

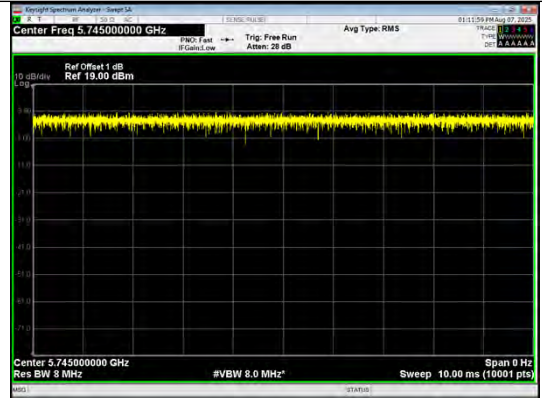
Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	N/A	1	10.000	10.000	100	1	0.0	0.1000
		157			10.000	10.000	100	1	0.0	0.1000
		165			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11n_20	149	10.000			10.000	100	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	149	10.000			10.000	100	1	0.0	0.1000	
	157	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11ac_40	165	10.000			10.000	100	1	0.0	0.1000	
	151	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11ac_80	159	10.000			10.000	100	1	0.0	0.1000	
	155	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11ax_20	MCS 0	149	SU		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
151		10.000			10.000	100	1	0.0	0.1000	
159		10.000			10.000	100	1	0.0	0.1000	
155		10.000			10.000	100	1	0.0	0.1000	
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	
151		10.000		10.000	100	1	0.0	0.1000		
IEEE 802.11ax_80	155	10.000	10.000	100	1	0.0	0.1000			

Test Graphs

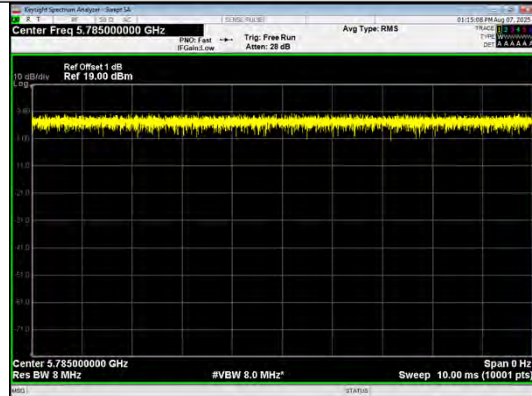




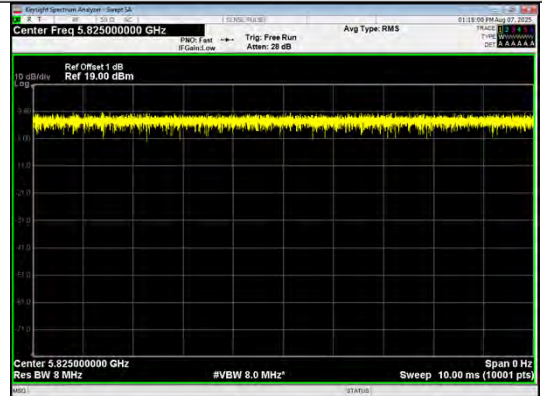
IEEE 802.11a_20MHz_Channel 165



IEEE 802.11n_20MHz_Channel 149



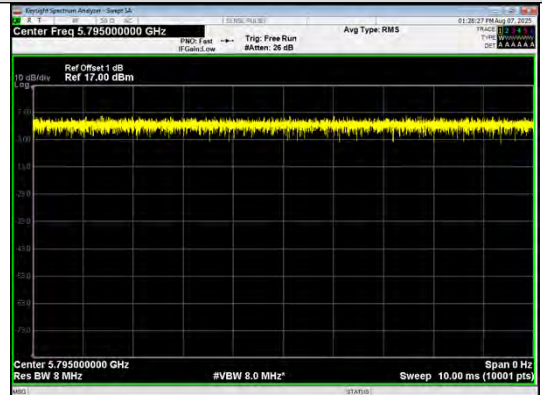
IEEE 802.11n_20MHz_Channel 157



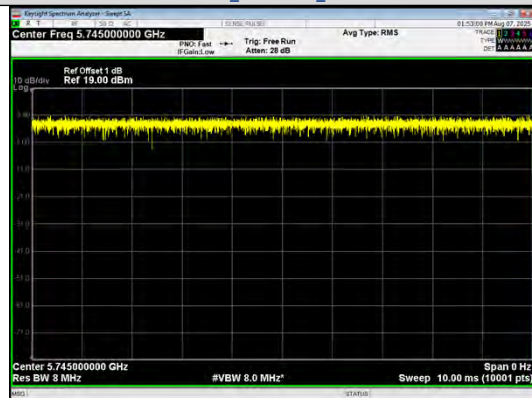
IEEE 802.11n_20MHz_Channel 165



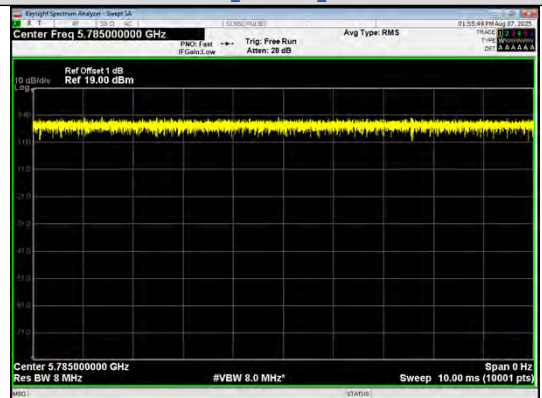
IEEE 802.11n_40MHz_Channel 151



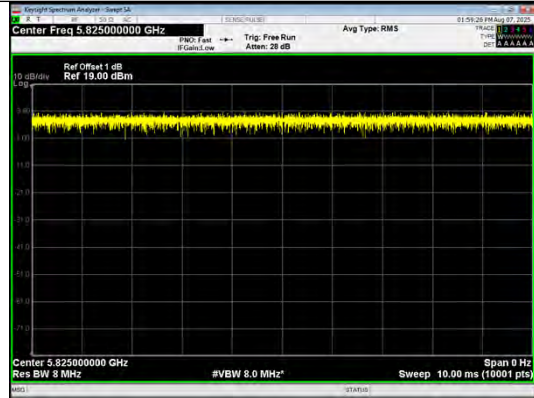
IEEE 802.11n_40MHz_Channel 159



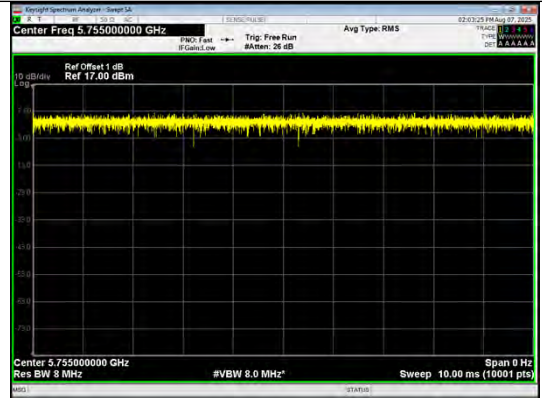
IEEE 802.11ac_20MHz_Channel 149



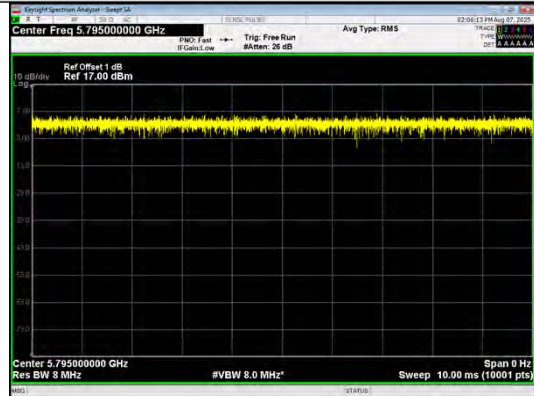
IEEE 802.11ac_20MHz_Channel 157



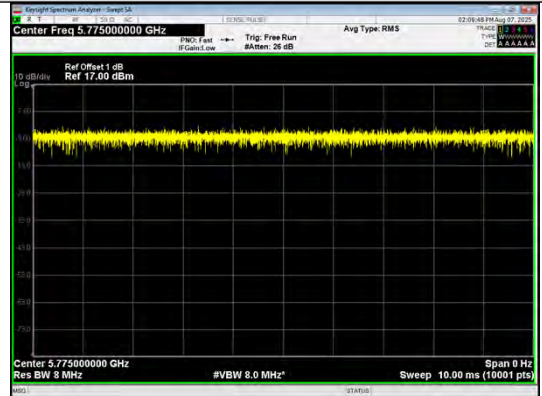
IEEE 802.11ac_20MHz_Channel 165



IEEE 802.11ac_40MHz_Channel 151



IEEE 802.11ac_40MHz_Channel 159



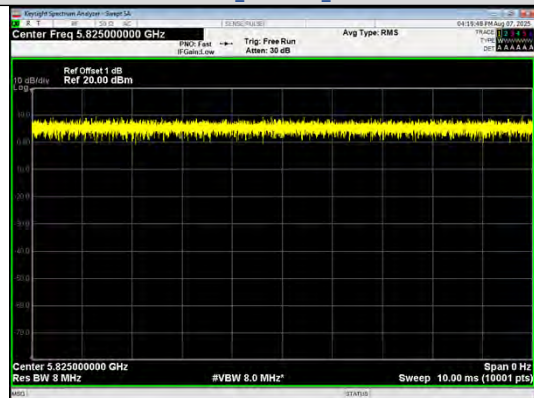
IEEE 802.11ac_80MHz_Channel 155



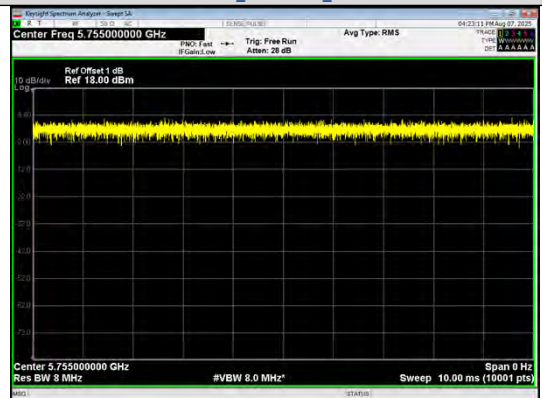
IEEE 802.11ax_20MHz_Channel 149



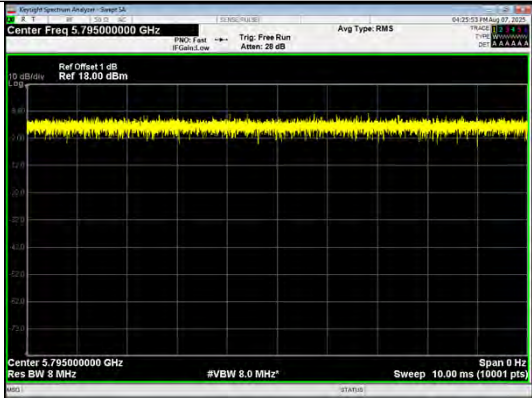
IEEE 802.11ax_20MHz_Channel 157



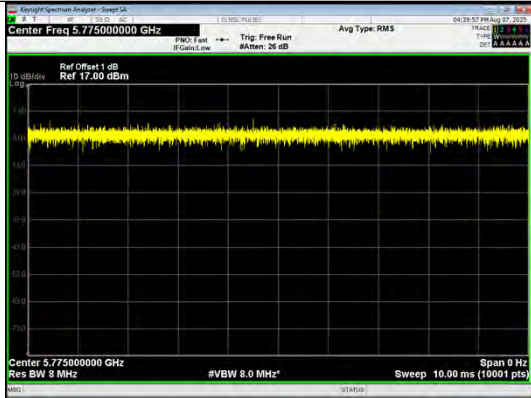
IEEE 802.11ax_20MHz_Channel 165



IEEE 802.11ax_40MHz_Channel 151



IEEE 802.11ax_40MHz_Channel 159



IEEE 802.11ax_80MHz_Channel 155



Peak Power Spectral Density

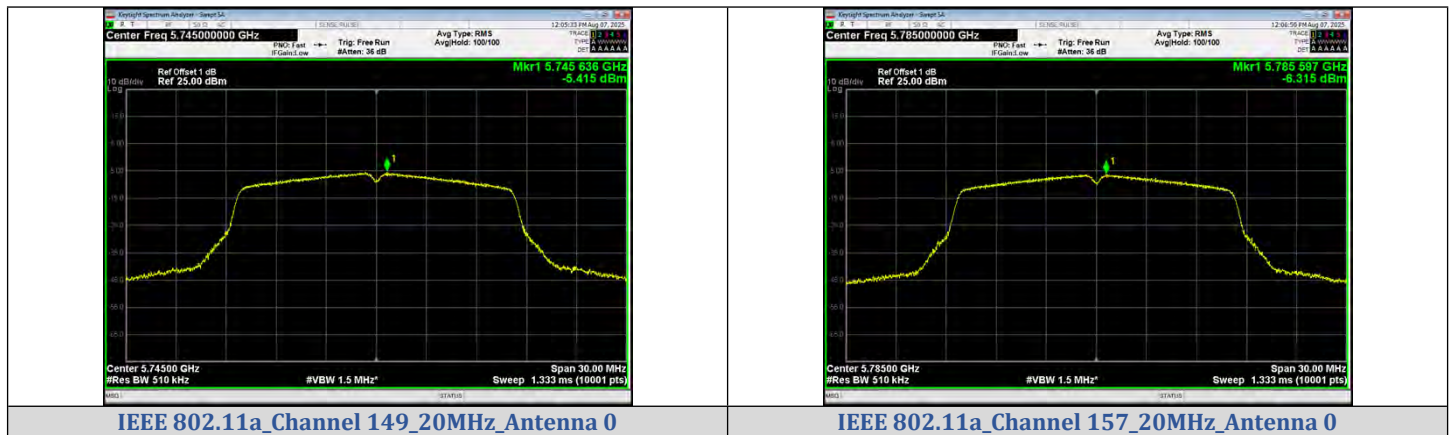
Test Result

Mode	Channel	RU & Index	Ant. 0 Meas PSD (dBm/510kHz)	RB Factor (dB)	Ant. 0 Final PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
IEEE 802.11a	149	N/A	-5.415	-0.086	-5.329	30	PASS
	157		-6.315	-0.086	-6.229		PASS
	165		-5.954	-0.086	-5.868		PASS
IEEE 802.11n_20	149		-4.202	-0.086	-4.116		PASS
	157		-4.505	-0.086	-4.419		PASS
	165		-4.407	-0.086	-4.321		PASS
IEEE 802.11n_40	151		-6.993	-0.086	-6.907		PASS
	159		-7.997	-0.086	-7.911		PASS
IEEE 802.11ac_20	149		-4.122	-0.086	-4.036		PASS
	157		-4.571	-0.086	-4.485		PASS
	165		-4.366	-0.086	-4.28		PASS
IEEE 802.11ac_40	151		-7.089	-0.086	-7.003		PASS
	159		-7.765	-0.086	-7.679		PASS
IEEE 802.11ac_80	155		-12.417	-0.086	-12.331		PASS
IEEE 802.11ax_20	149	SU	-12.085	-0.086	-11.999		PASS
	157		-4.985	-0.086	-4.899		PASS
	165		-4.816	-0.086	-4.73		PASS
IEEE 802.11ax_40	151		-7.525	-0.086	-7.439		PASS
	159		-8.053	-0.086	-7.967		PASS
IEEE 802.11ax_80	155		-12.264	-0.086	-12.178		PASS

Note1:RB Factor= $10\log(500\text{ kHz} / 510\text{ kHz})$

Note2:Final PSD (dBm/500kHz)= Meas PSD(dBm/510kHz)+ RB Factor

Test Graphs





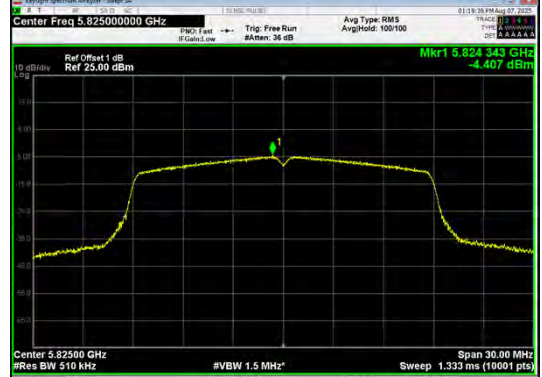
IEEE 802.11a_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 149_20MHz_Antenna 0



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



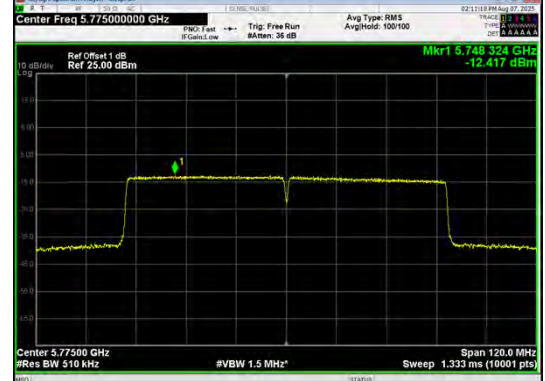
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0



IEEE 802.11ax_Channel 149_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 157_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 165_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 151_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index SU