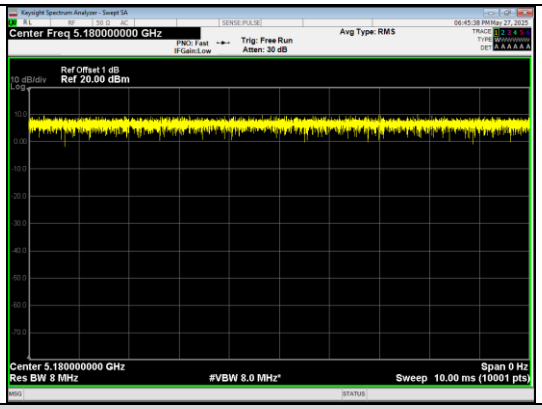
Duty Cycle

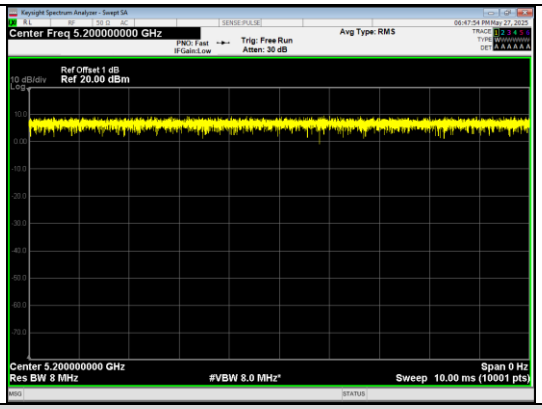
Test Result

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	36	0	10.000	10.000	100	1	0.0	0.1000
		40		10.000	10.000	100	1	0.0	0.1000
		48		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11n_20	MCS 0	36		10.000	10.000	100	1	0.0	0.1000
		40		10.000	10.000	100	1	0.0	0.1000
		48		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11n_40		38		10.000	10.000	100	1	0.0	0.1000
		46		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_20		36		10.000	10.000	100	1	0.0	0.1000
		40		10.000	10.000	100	1	0.0	0.1000
		48		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_40		38		10.000	10.000	100	1	0.0	0.1000
		46		10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_80		42		10.000	10.000	100	1	0.0	0.1000

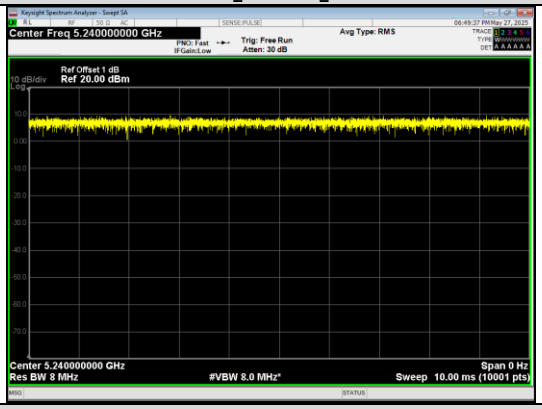
Test Graphs



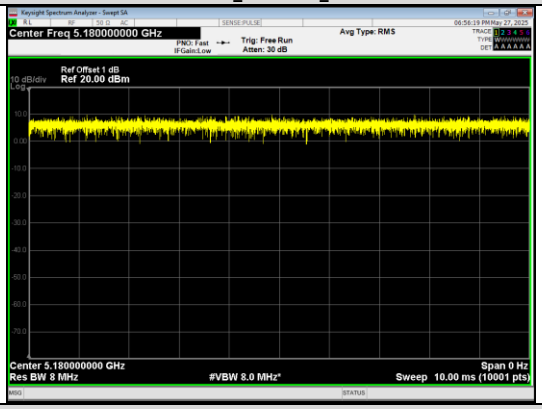
IEEE 802.11a_20MHz_Channel 36



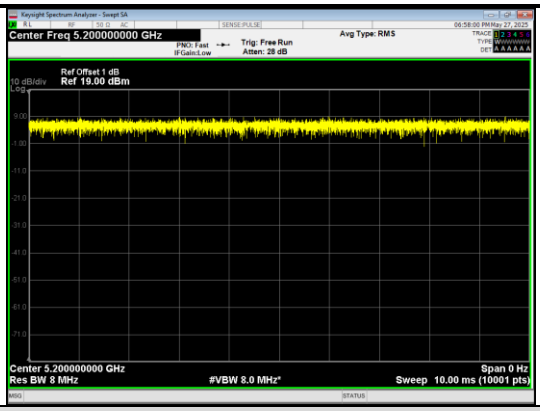
IEEE 802.11a_20MHz_Channel 40



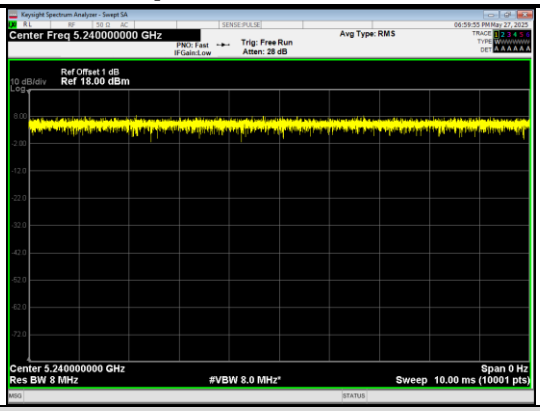
IEEE 802.11a_20MHz_Channel 48



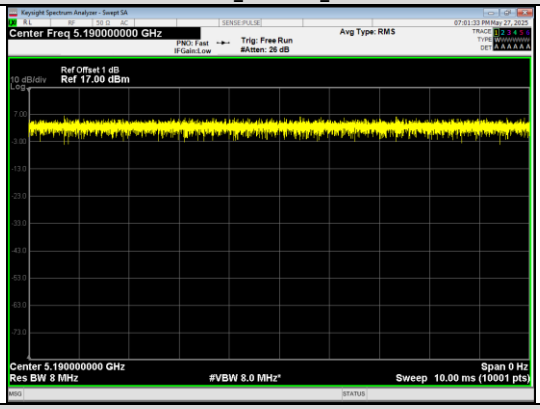
IEEE 802.11n_20MHz_Channel 36



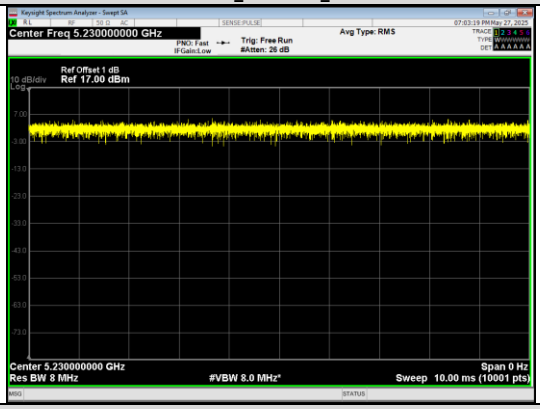
IEEE 802.11n_20MHz_Channel 40



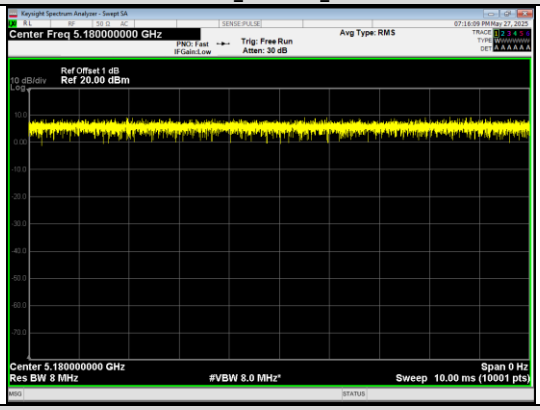
IEEE 802.11n_20MHz_Channel 48



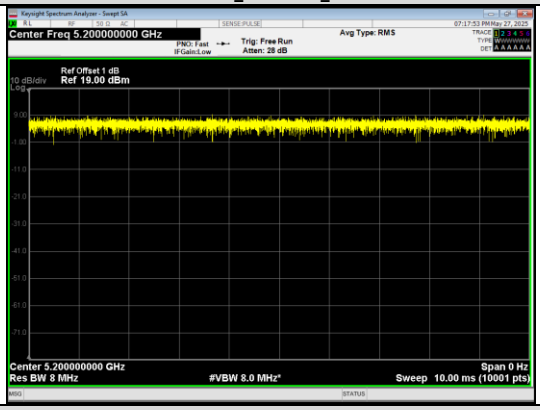
IEEE 802.11n_40MHz_Channel 38



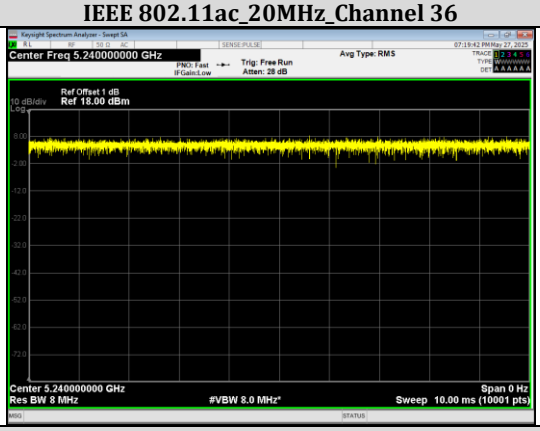
IEEE 802.11n_40MHz_Channel 46



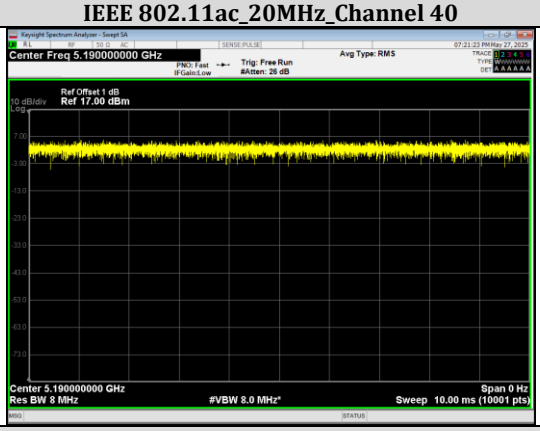
IEEE 802.11ac_20MHz_Channel 36



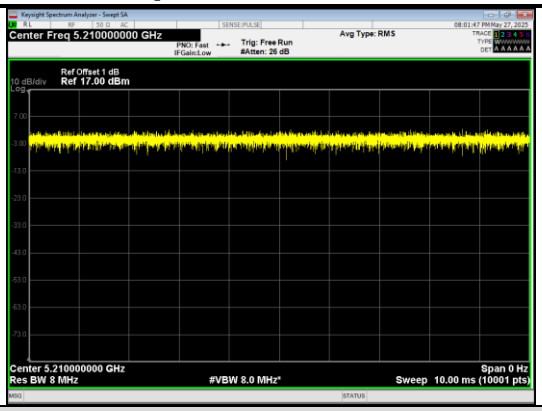
IEEE 802.11ac_20MHz_Channel 40



IEEE 802.11ac_20MHz_Channel 48



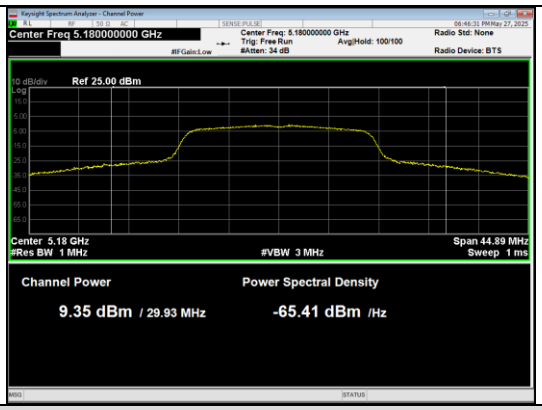
IEEE 802.11ac_40MHz_Channel 38

	
IEEE 802.11ac_40MHz_Channel 46	**IEEE 802.11ac_80MHz_Channel 42**

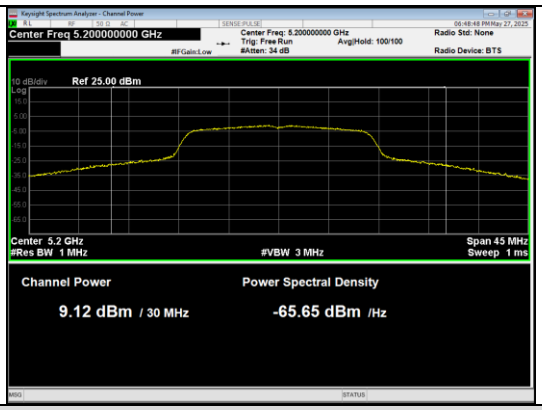
Conducted Output Power

Conducted output power

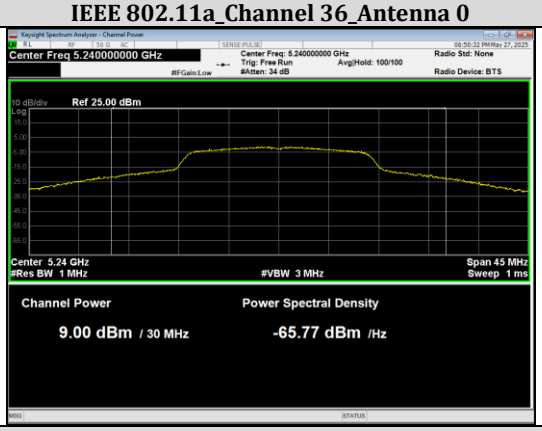
Mode	Channel	Ant. 0 (dBm)	Corr'd Value Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	9.35	9.35	≤24	PASS
	40	9.12	9.12	≤24	PASS
	48	9.00	9.0	≤24	PASS
IEEE 802.11n_20	36	9.19	9.19	≤24	PASS
	40	8.57	8.57	≤24	PASS
	48	7.70	7.7	≤24	PASS
IEEE 802.11n_40	38	8.35	8.35	≤24	PASS
	46	7.28	7.28	≤24	PASS
IEEE 802.11ac_20	36	8.91	8.91	≤24	PASS
	40	8.60	8.6	≤24	PASS
	48	7.27	7.27	≤24	PASS
IEEE 802.11ac_40	38	8.29	8.29	≤24	PASS
	46	7.13	7.13	≤24	PASS
IEEE 802.11ac_80	42	7.06	7.06	≤24	PASS



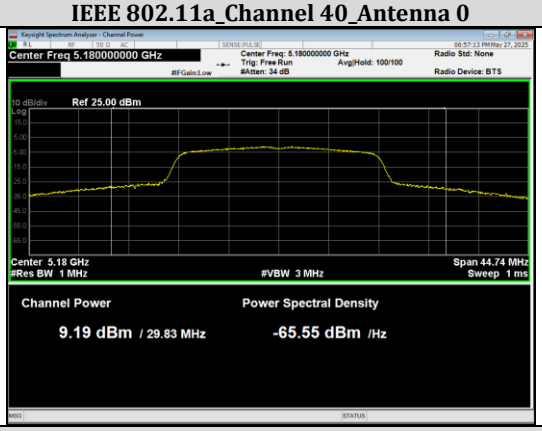
Conducted AVG output power
IEEE 802.11a_Channel 36_Antenna 0



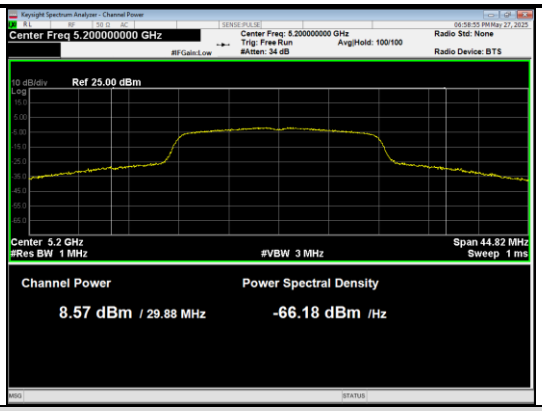
Conducted AVG output power
IEEE 802.11a_Channel 40_Antenna 0



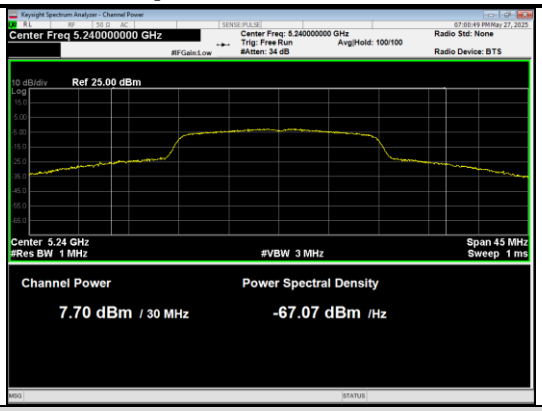
Conducted AVG output power
IEEE 802.11a_Channel 48_Antenna 0



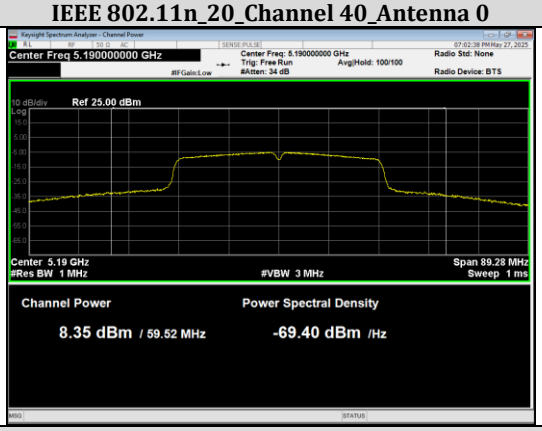
Conducted AVG output power
IEEE 802.11n_20_Channel 36_Antenna 0



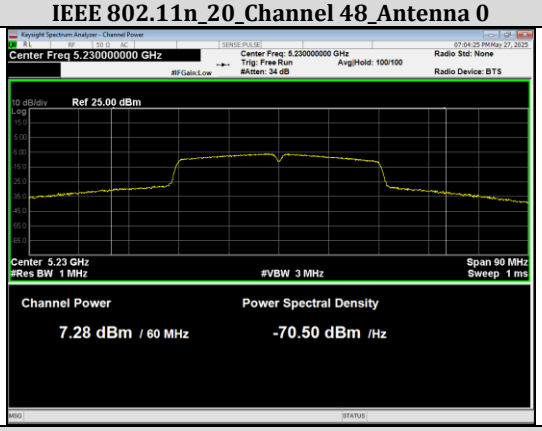
Conducted AVG output power
IEEE 802.11n_20_Channel 40_Antenna 0



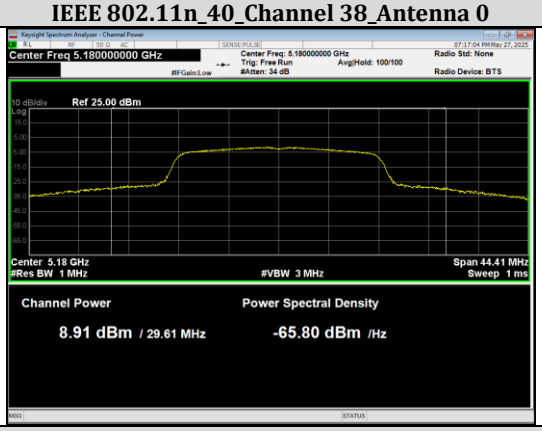
Conducted AVG output power
IEEE 802.11n_20_Channel 48_Antenna 0



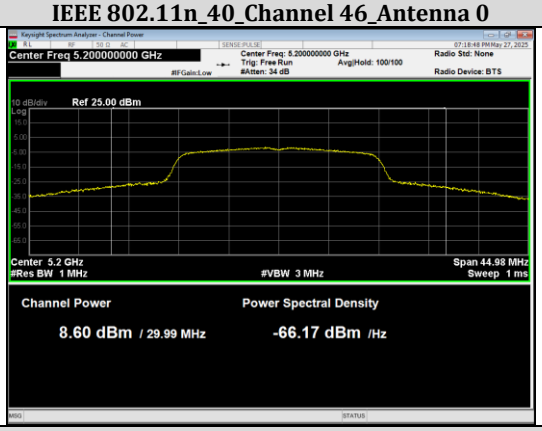
Conducted AVG output power
IEEE 802.11n_40_Channel 38_Antenna 0



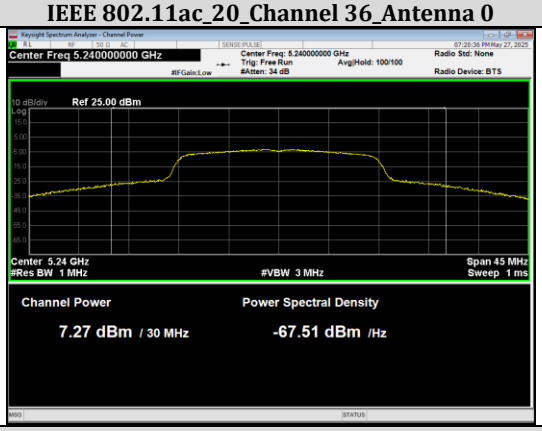
Conducted AVG output power
IEEE 802.11n_40_Channel 46_Antenna 0



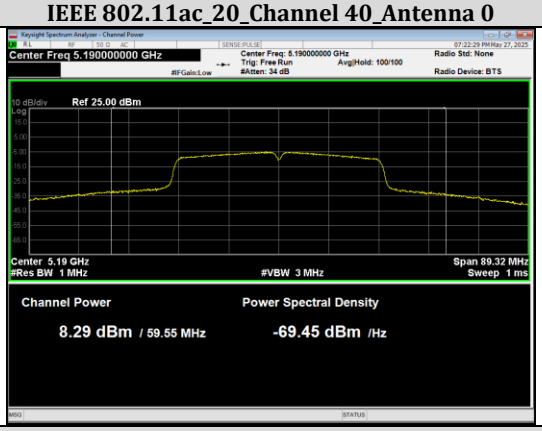
Conducted AVG output power
IEEE 802.11ac_20_Channel 36_Antenna 0



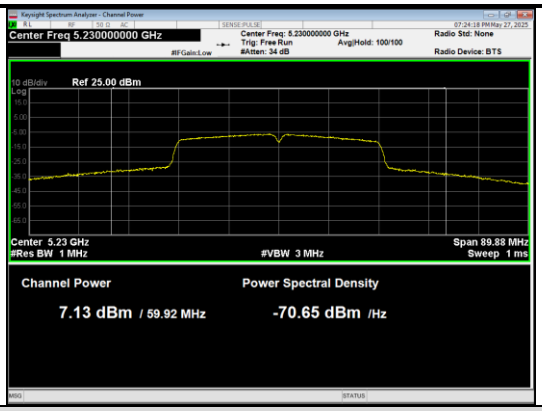
Conducted AVG output power
IEEE 802.11ac_20_Channel 40_Antenna 0



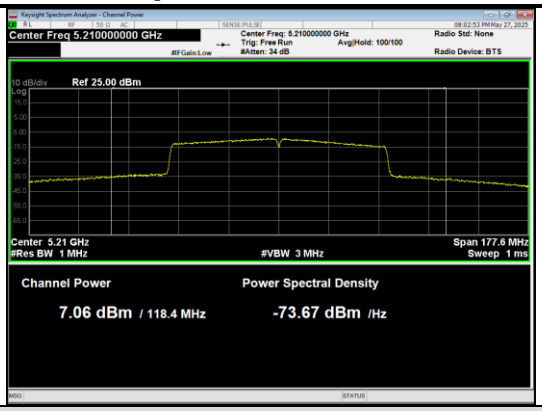
Conducted AVG output power
IEEE 802.11ac_20_Channel 48_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 38_Antenna 0



Conducted AVG output power
IEEE 802.11ac_40_Channel 46_Antenna 0



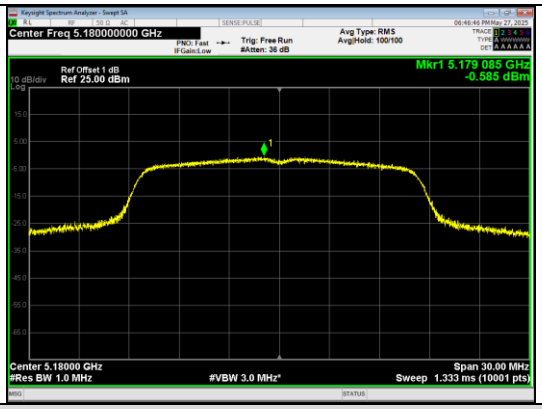
Conducted AVG output power
IEEE 802.11ac_80_Channel 42_Antenna 0

Peak Power Spectral Density

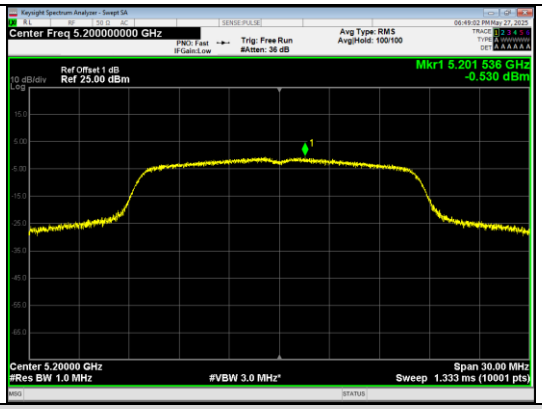
Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	36	-0.585	-0.585	11	PASS
	40	-0.530	-0.53		PASS
	48	-0.483	-0.483		PASS
IEEE 802.11n_20	36	-0.855	-0.855		PASS
	40	-1.309	-1.309		PASS
	48	-1.575	-1.575		PASS
IEEE 802.11n_40	38	-4.468	-4.468		PASS
	46	-5.223	-5.223		PASS
IEEE 802.11ac_20	36	-0.950	-0.95		PASS
	40	-1.132	-1.132		PASS
	48	-2.375	-2.375		PASS
IEEE 802.11ac_40	38	-4.221	-4.221		PASS
	46	-5.451	-5.451		PASS
IEEE 802.11ac_80	42	-8.502	-8.502		PASS

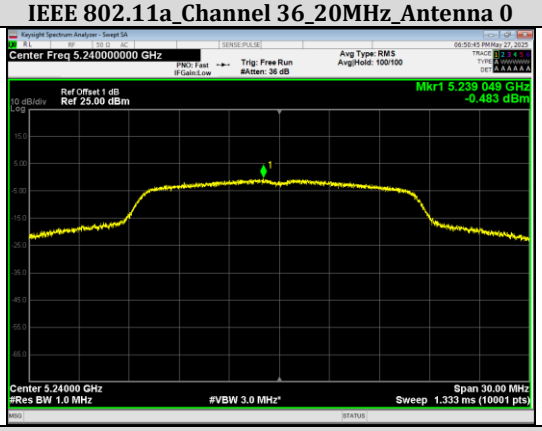
Test Graphs



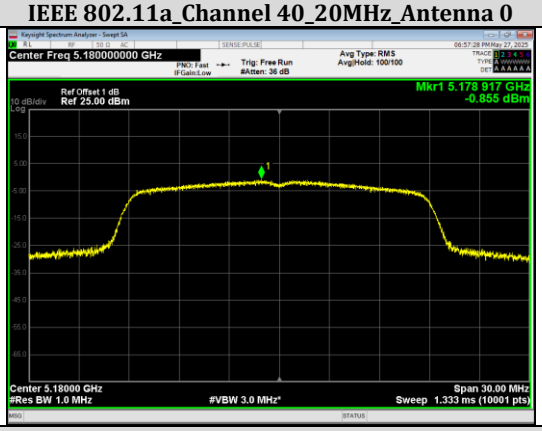
IEEE 802.11a_Channel 36_20MHz_Antenna 0



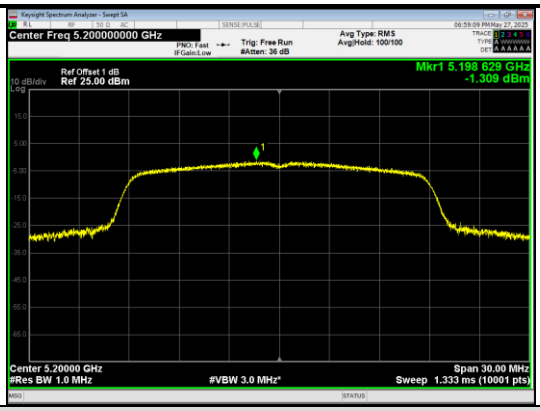
IEEE 802.11a_Channel 40_20MHz_Antenna 0



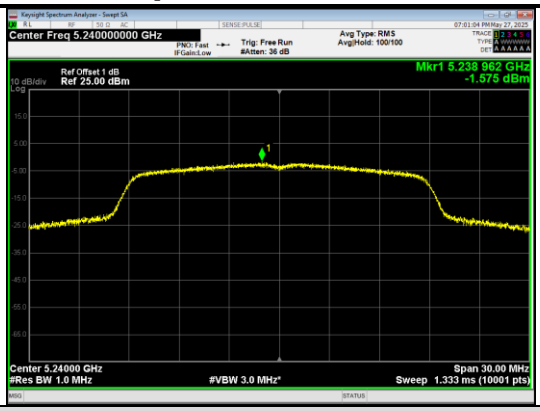
IEEE 802.11a_Channel 48_20MHz_Antenna 0



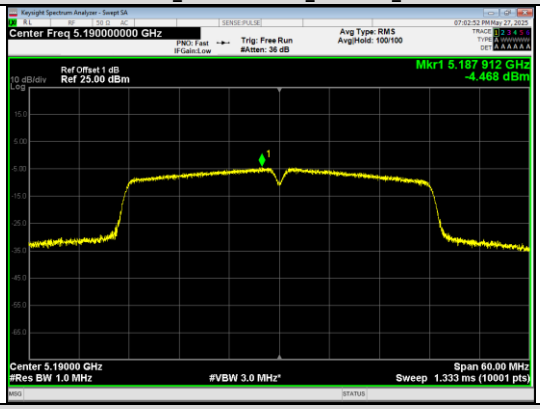
IEEE 802.11n_Channel 36_20MHz_Antenna 0



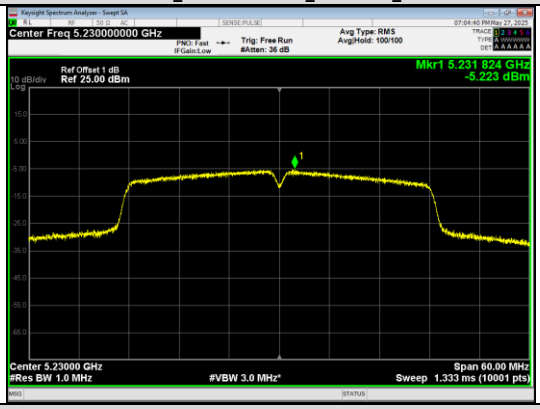
IEEE 802.11n_Channel 40_20MHz_Antenna 0



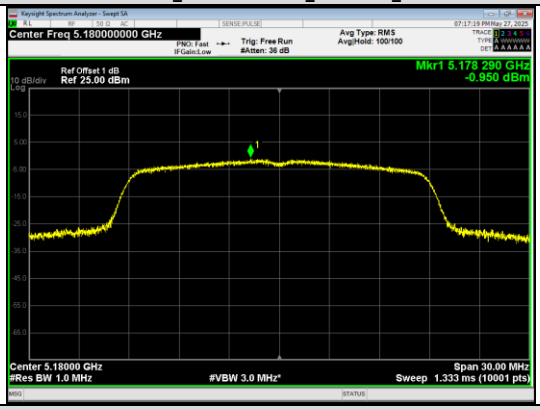
IEEE 802.11n_Channel 48_20MHz_Antenna 0



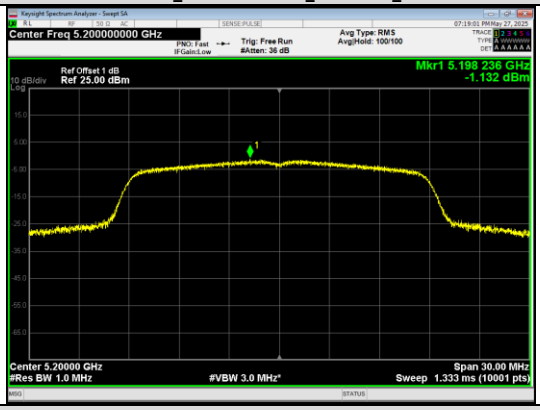
IEEE 802.11n_Channel 38_40MHz_Antenna 0



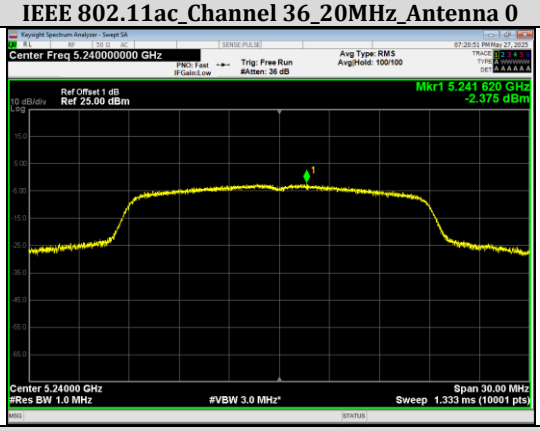
IEEE 802.11n_Channel 46_40MHz_Antenna 0



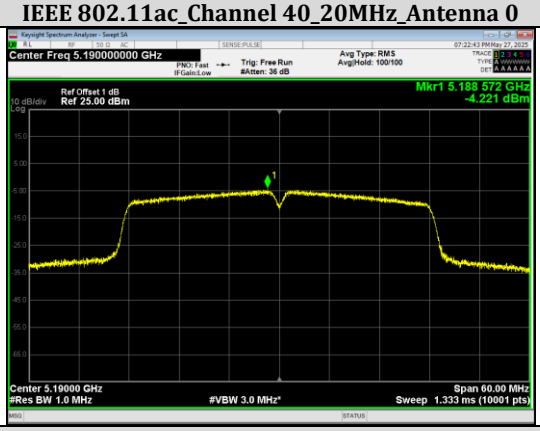
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



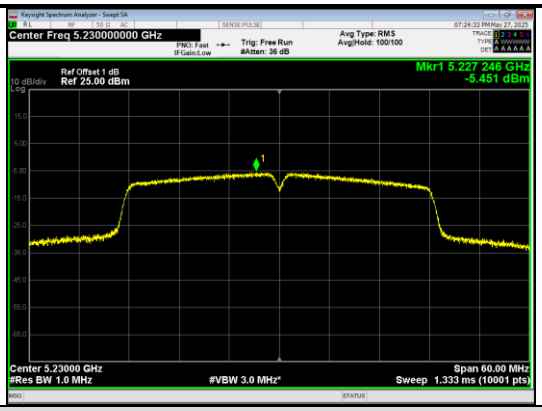
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



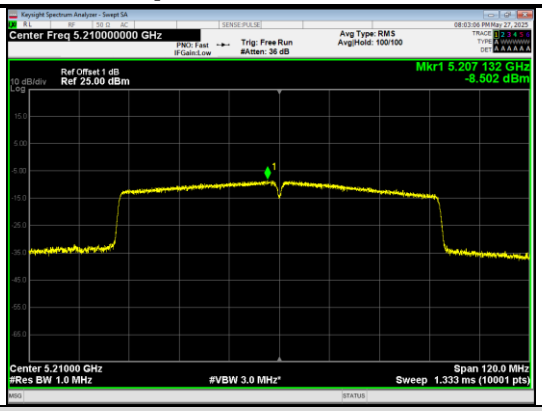
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



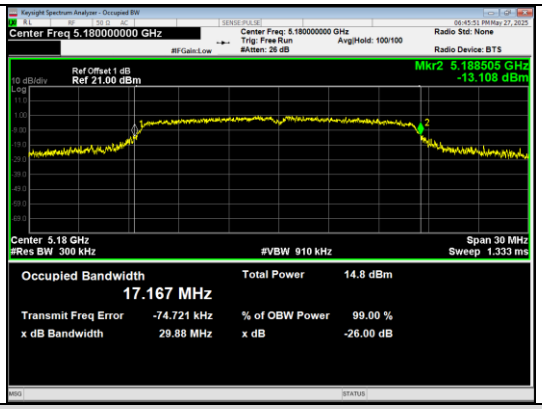
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

99% Bandwidth

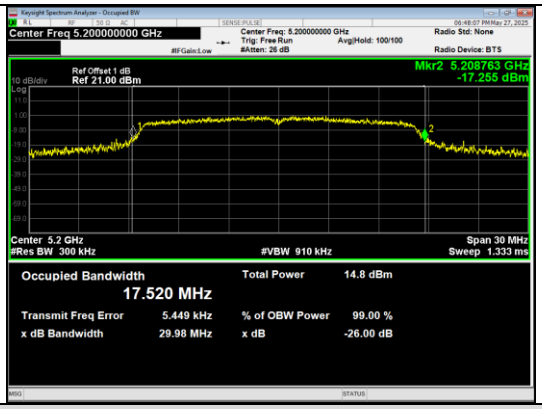
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	0	5180	17.167
	40		5200	17.520
	48		5240	23.972
IEEE 802.11n_20	36		5180	17.905
	40		5200	18.092
	48		5240	21.021
IEEE 802.11n_40	38		5190	36.403
	46		5230	36.711
IEEE 802.11ac_20	36		5180	17.948
	40		5200	18.117
	48		5240	19.633
IEEE 802.11ac_40	38		5190	36.375
	46		5230	36.602
IEEE 802.11ac_80	42		5210	75.804

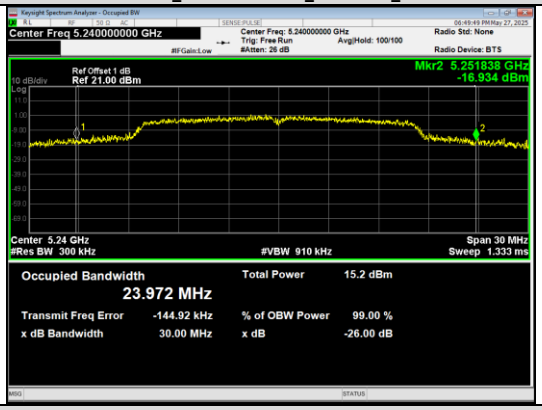
Test Graphs



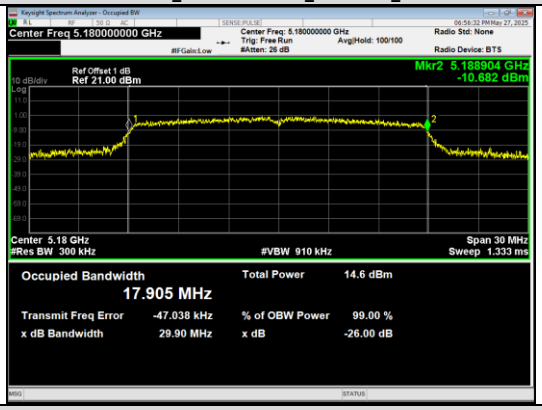
IEEE 802.11a_Channel 36_20MHz_Antenna 0



IEEE 802.11a_Channel 40_20MHz_Antenna 0



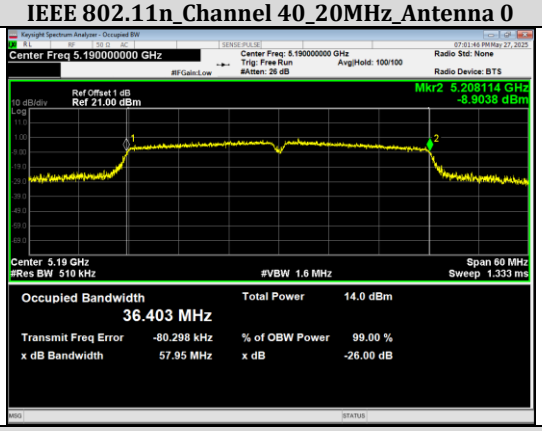
IEEE 802.11a_Channel 48_20MHz_Antenna 0



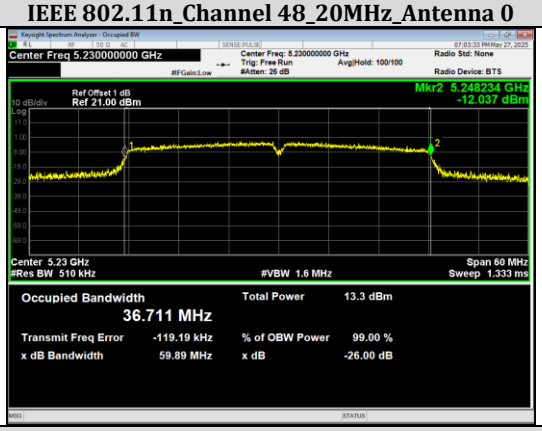
IEEE 802.11n_Channel 36_20MHz_Antenna 0

IEEE 802.11n_Channel 40_20MHz_Antenna 0

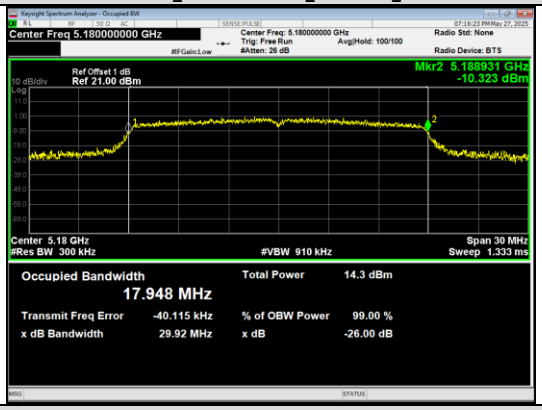
IEEE 802.11n_Channel 48_20MHz_Antenna 0



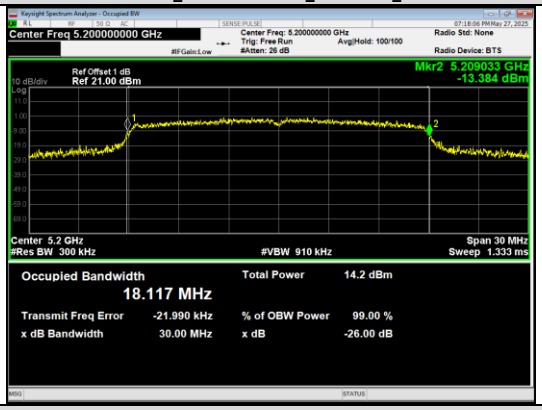
IEEE 802.11n_Channel 38_40MHz_Antenna 0



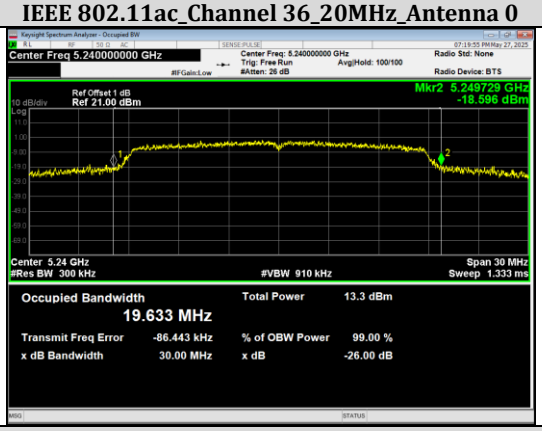
IEEE 802.11n_Channel 46_40MHz_Antenna 0



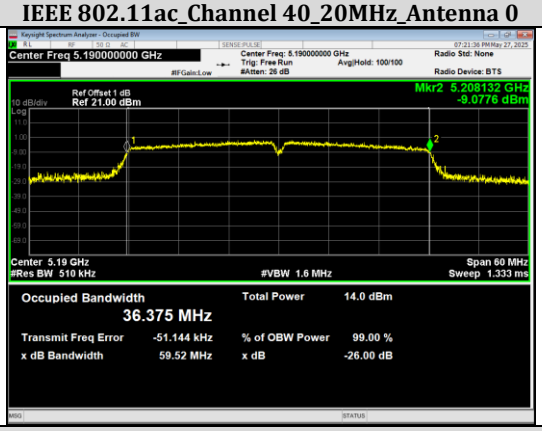
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



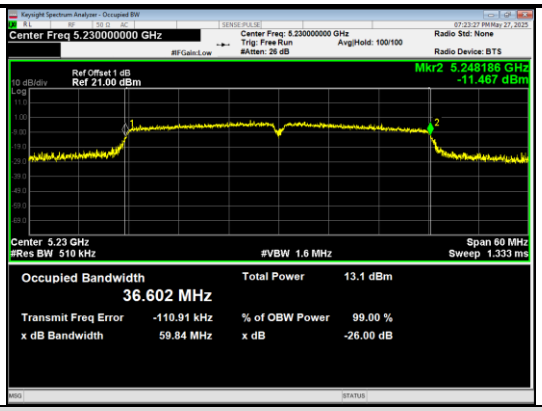
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



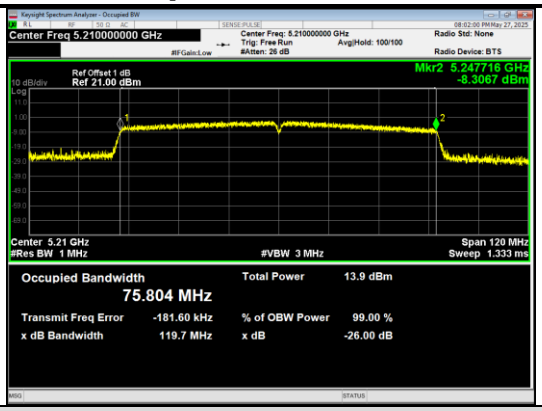
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



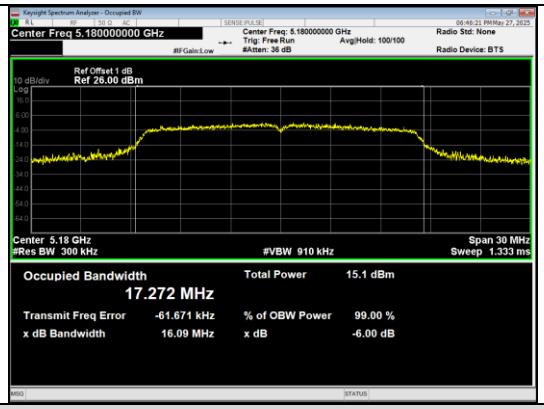
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

6dB Bandwidth

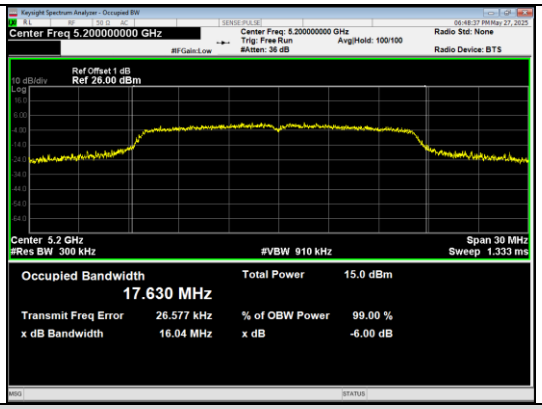
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	36	0	5180	16.09	≥0.5	PASS
	40		5200	16.04		PASS
	48		5240	16.10		PASS
IEEE 802.11n_20	36		5180	17.36		PASS
	40		5200	17.27		PASS
	48		5240	17.25		PASS
IEEE 802.11n_40	38		5190	35.32		PASS
	46		5230	35.06		PASS
IEEE 802.11ac_20	36		5180	17.24		PASS
	40		5200	17.30		PASS
	48		5240	17.47		PASS
IEEE 802.11ac_40	38		5190	35.49		PASS
	46		5230	34.66		PASS
IEEE 802.11ac_80	42		5210	75.09		PASS

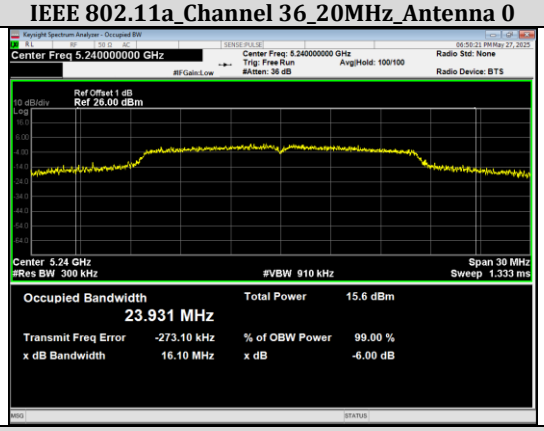
Test Graphs



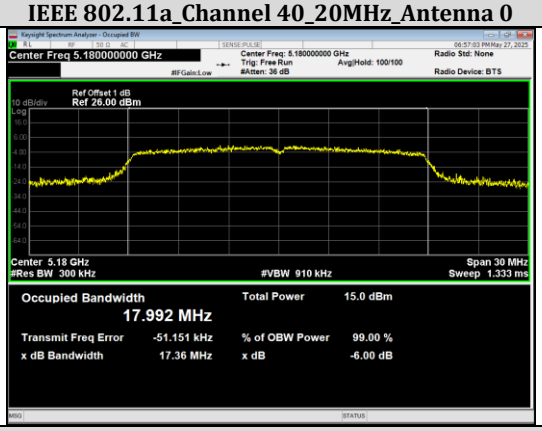
IEEE 802.11a_Channel 36_20MHz_Antenna 0



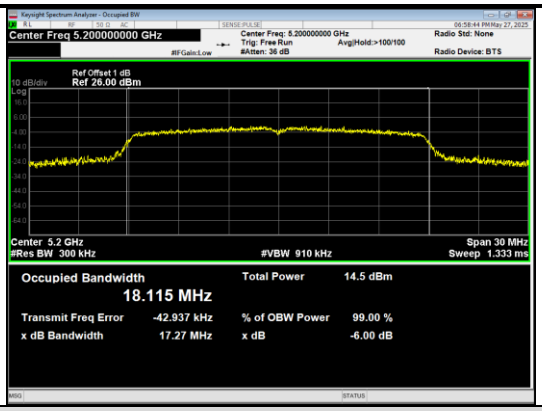
IEEE 802.11a_Channel 40_20MHz_Antenna 0



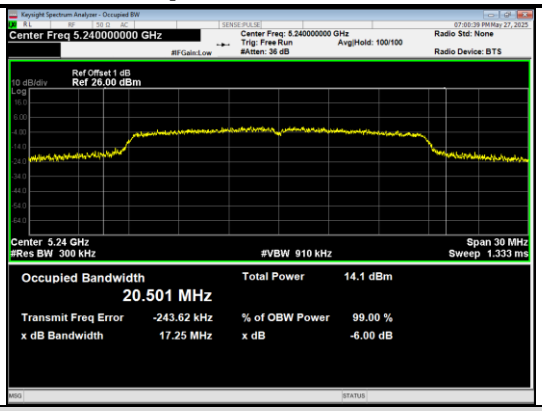
IEEE 802.11a_Channel 48_20MHz_Antenna 0



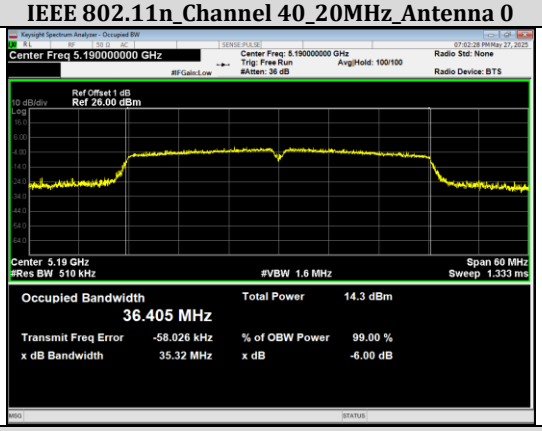
IEEE 802.11n_Channel 36_20MHz_Antenna 0



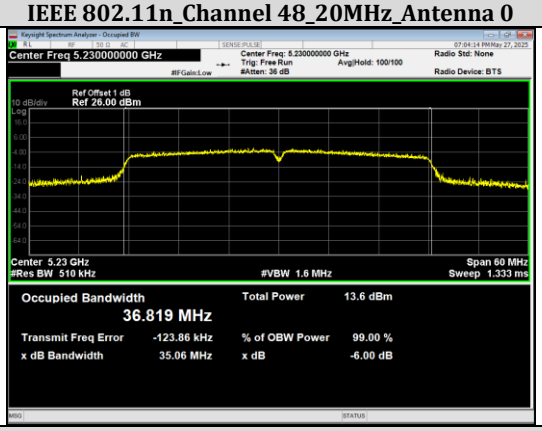
IEEE 802.11n_Channel 40_20MHz_Antenna 0



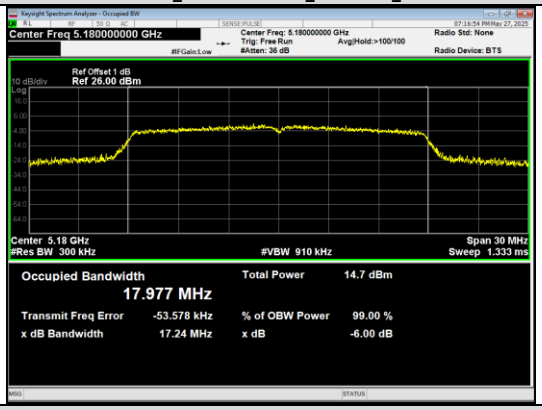
IEEE 802.11n_Channel 48_20MHz_Antenna 0



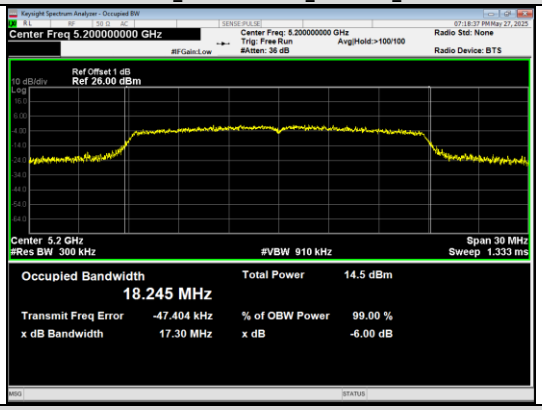
IEEE 802.11n_Channel 38_40MHz_Antenna 0



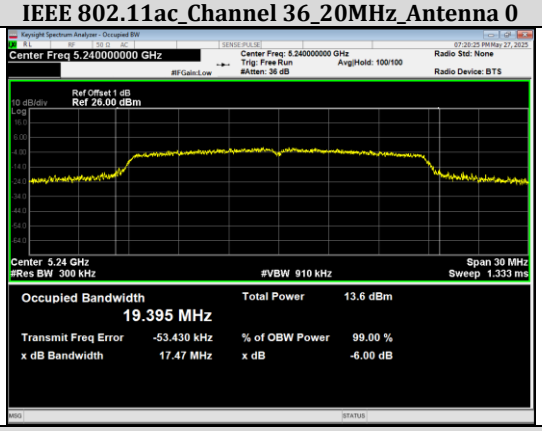
IEEE 802.11n_Channel 46_40MHz_Antenna 0



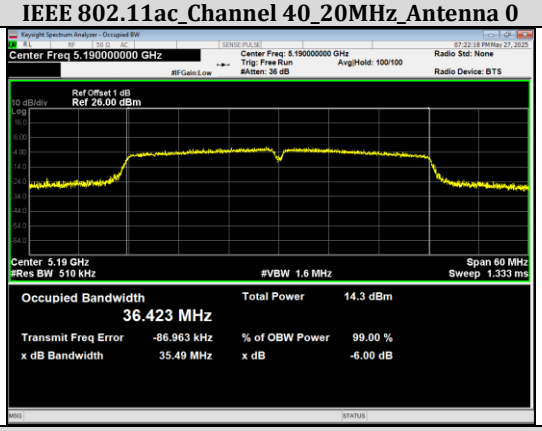
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



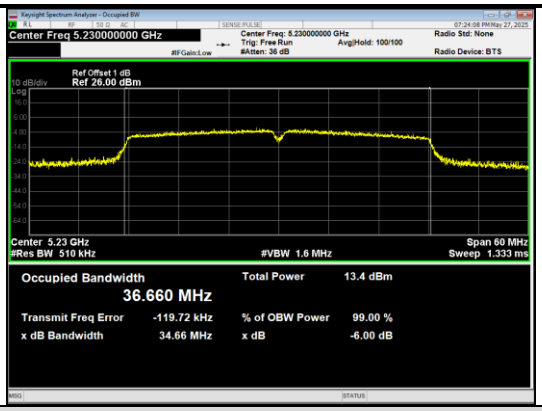
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



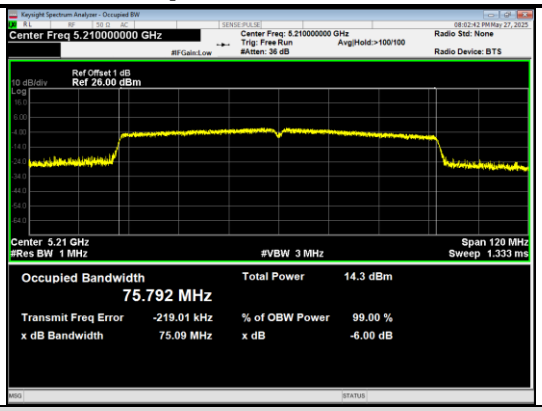
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0



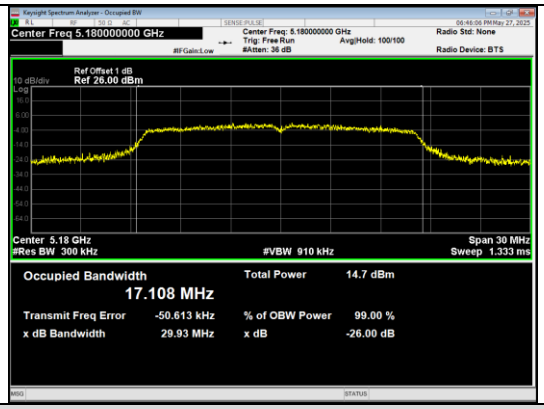
IEEE 802.11ac_Channel 42_80MHz_Antenna 0

26dB Bandwidth

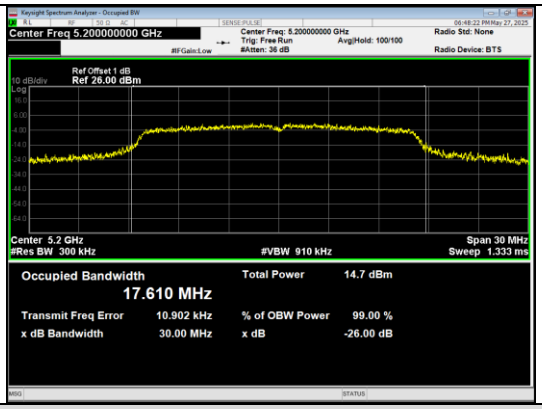
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	36	0	5180	29.93	1.0
	40		5200	30.00	1.0
	48		5240	30.00	1.0
IEEE 802.11n_20	36		5180	29.83	1.01
	40		5200	29.88	1.0
	48		5240	30.00	1.0
IEEE 802.11n_40	38		5190	59.52	1.04
	46		5230	60.00	1.03
IEEE 802.11ac_20	36		5180	29.61	1.01
	40		5200	29.99	1.0
	48		5240	30.00	1.0
IEEE 802.11ac_40	38		5190	59.55	1.04
	46		5230	59.92	1.03
IEEE 802.11ac_80	42		5210	118.39	1.03

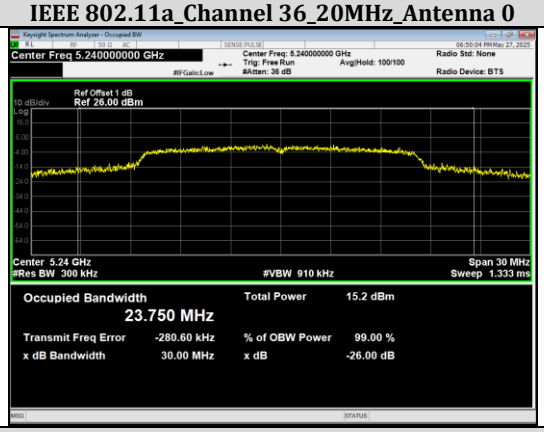
Test Graphs



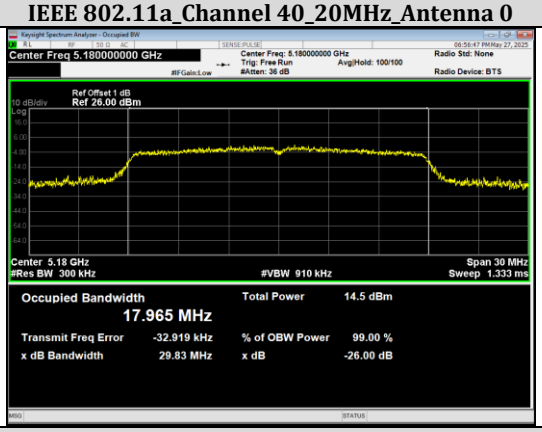
IEEE 802.11a_Channel 36_20MHz_Antenna 0



IEEE 802.11a_Channel 40_20MHz_Antenna 0

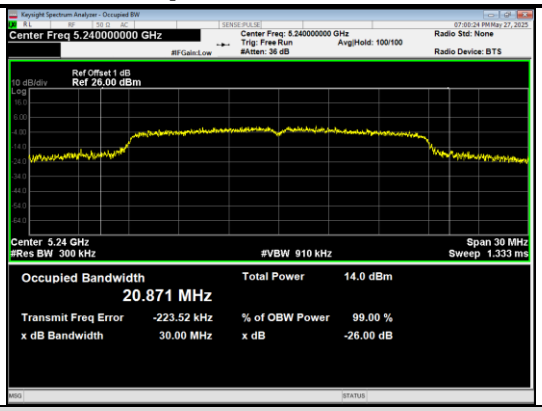


IEEE 802.11a_Channel 48_20MHz_Antenna 0

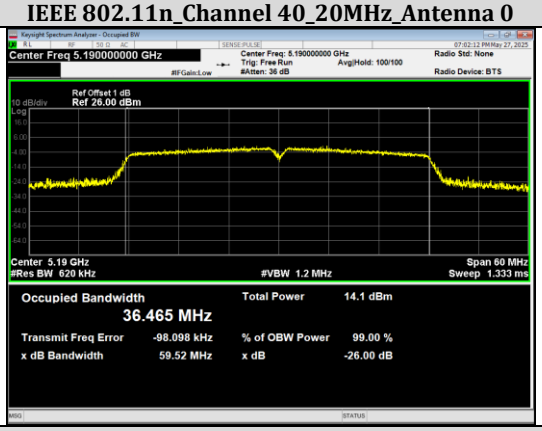


IEEE 802.11n_Channel 36_20MHz_Antenna 0

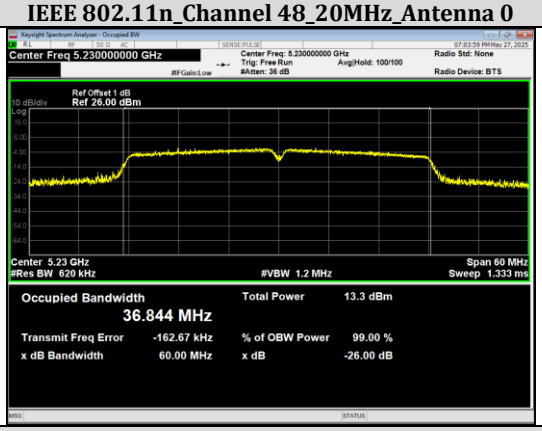
IEEE 802.11n_Channel 40_20MHz_Antenna 0



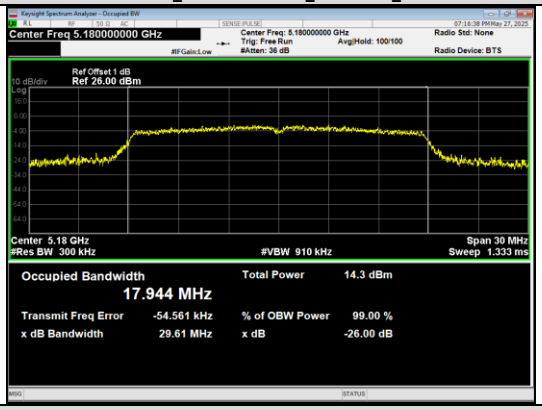
IEEE 802.11n_Channel 48_20MHz_Antenna 0



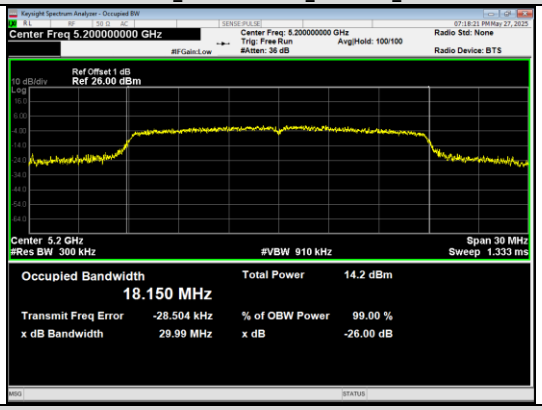
IEEE 802.11n_Channel 38_40MHz_Antenna 0



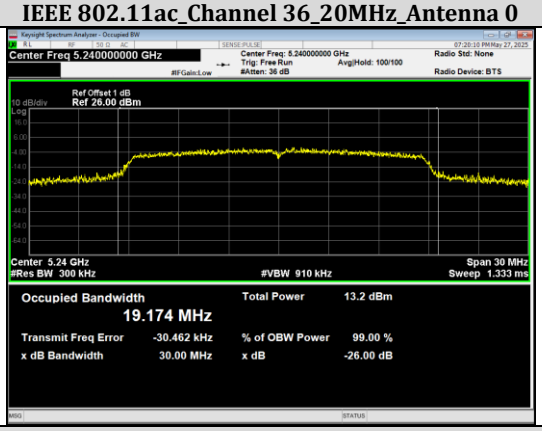
IEEE 802.11n_Channel 46_40MHz_Antenna 0



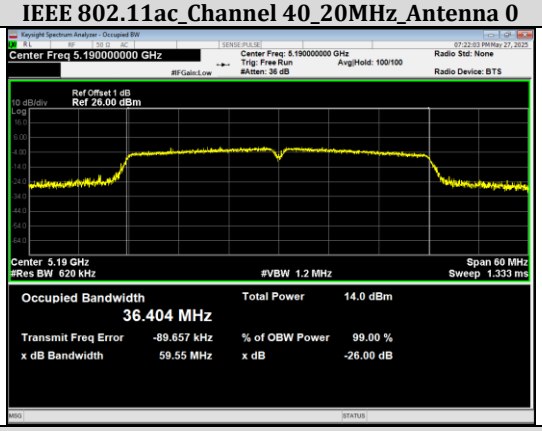
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



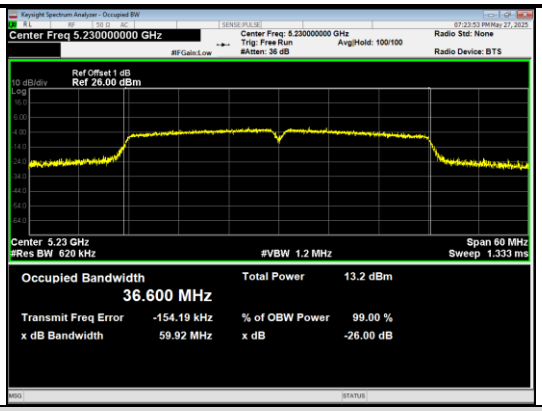
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



IEEE 802.11ac_Channel 48_20MHz_Antenna 0



IEEE 802.11ac_Channel 38_40MHz_Antenna 0



IEEE 802.11ac_Channel 46_40MHz_Antenna 0

IEEE 802.11ac_Channel 42_80MHz_Antenna 0

Frequency Stability

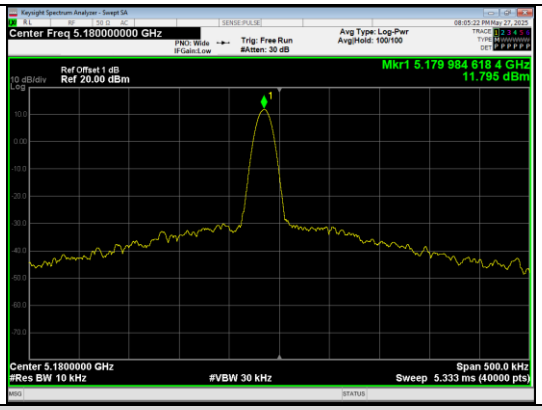
Test Result

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	36	0	5180.0	5179.984618	-2.97	Within authorized band	PASS
		40		5200.0	5199.982981	-3.27		PASS
		48		5240.0	5239.981706	-3.49		PASS
	IEEE 802.11n_20	36		5180.0	5179.981218	-3.63		PASS
		40		5200.0	5199.980518	-3.75		PASS
		48		5240.0	5239.979918	-3.83		PASS
	IEEE 802.11n_40	38		5190.0	5189.980056	-3.84		PASS
		46		5230.0	5229.980043	-3.82		PASS
	IEEE 802.11ac_20	36		5180.0	5179.979856	-3.89		PASS
		40		5200.0	5199.979768	-3.89		PASS
		48		5240.0	5239.979118	-3.99		PASS
	IEEE 802.11ac_40	38		5190.0	5189.979268	-3.99		PASS
		46		5230.0	5229.978781	-4.06		PASS
	IEEE 802.11ac_80	42		5210.0	5209.979031	-4.02		PASS

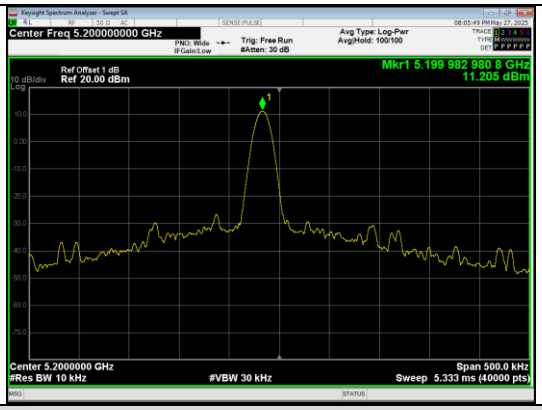
Test Graphs

NT/NV

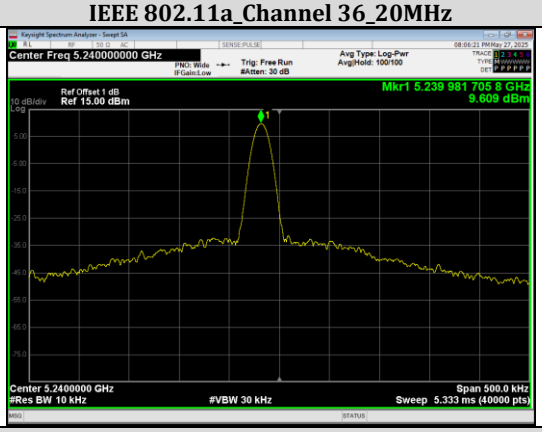
IEEE 802.11a



NT/NV_Antenna 0
IEEE 802.11a_Channel 36_20MHz

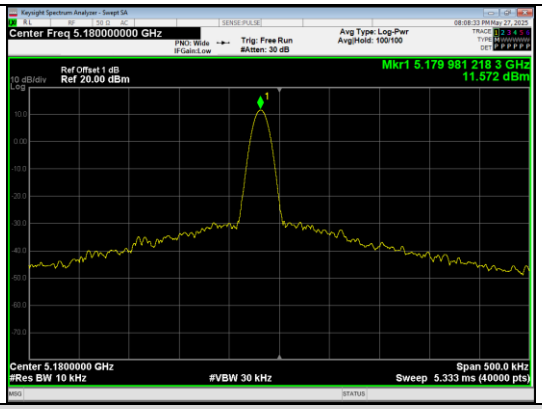


NT/NV_Antenna 0
IEEE 802.11a_Channel 40_20MHz

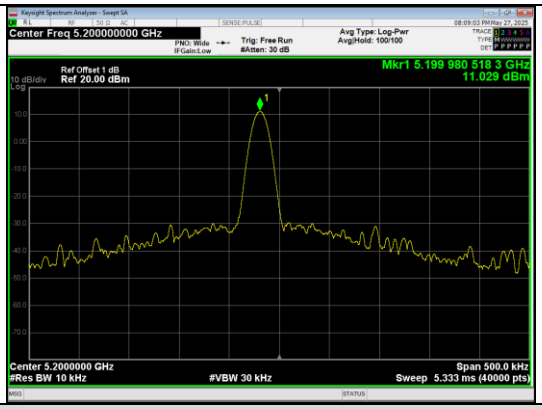


NT/NV_Antenna 0
IEEE 802.11a_Channel 48_20MHz

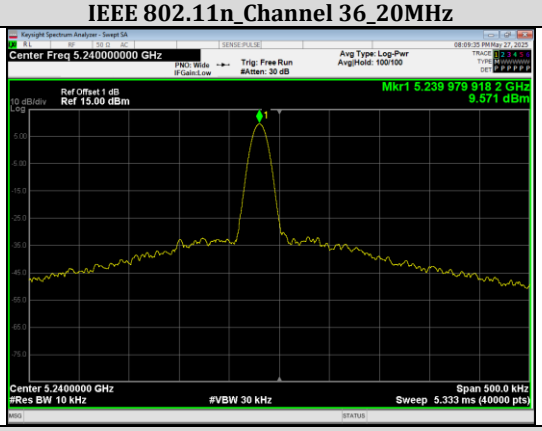
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 36_20MHz

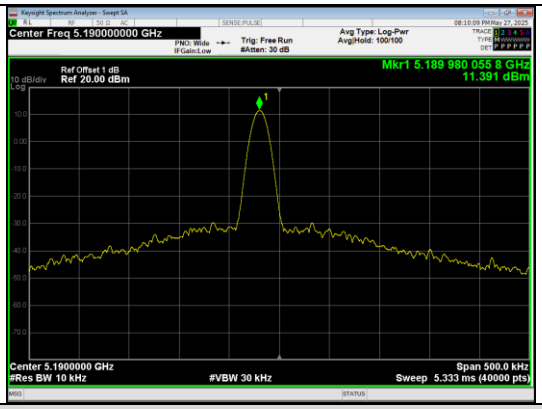


NT/NV_Antenna 0
IEEE 802.11n_Channel 40_20MHz



NT/NV_Antenna 0
IEEE 802.11n_Channel 48_20MHz

IEEE 802.11n_40



NT/NV_Antenna 0
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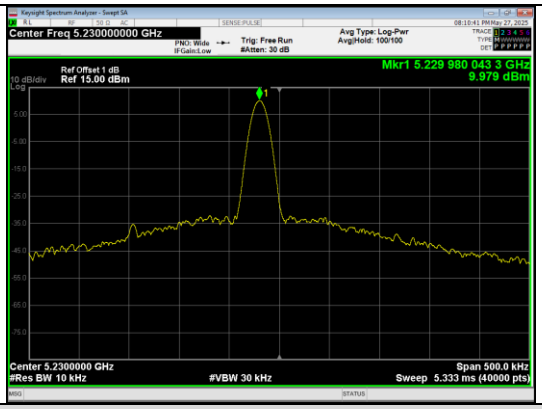
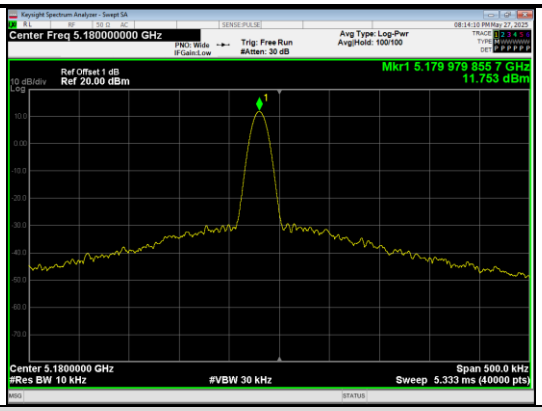
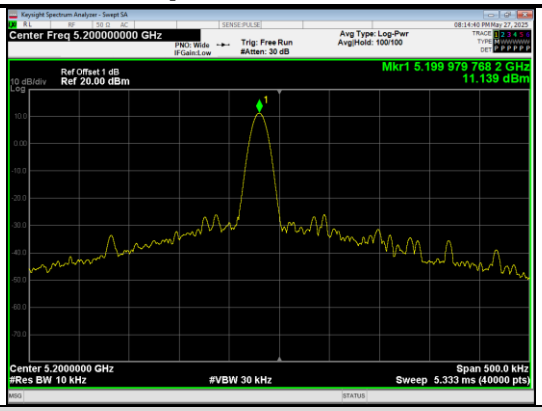


NT/NV_Antenna 0
IEEE 802.11n_Channel 46_40MHz

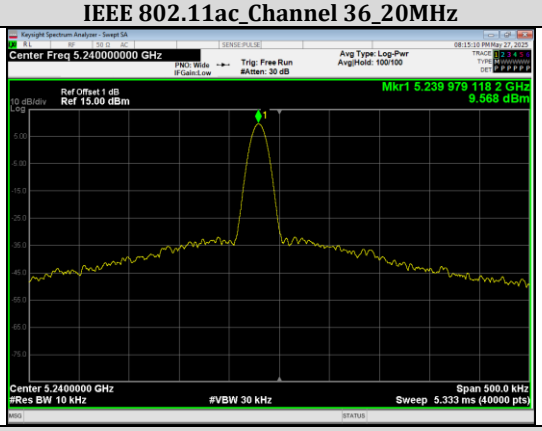
IEEE 802.11ac_20



NT/NV_Antenna 0
IEEE 802.11ac_Channel 36_20MHz

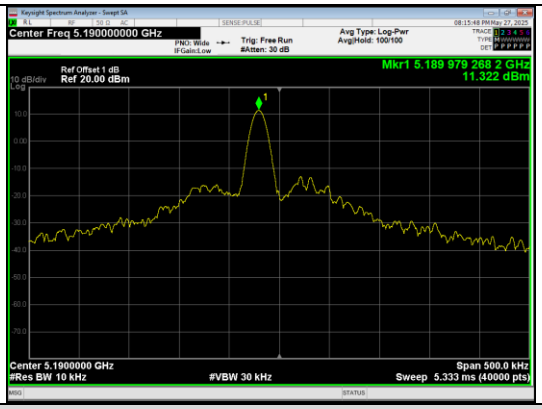


NT/NV_Antenna 0
IEEE 802.11ac_Channel 40_20MHz



NT/NV_Antenna 0
IEEE 802.11ac_Channel 48_20MHz

IEEE 802.11ac_40



NT/NV_Antenna 0
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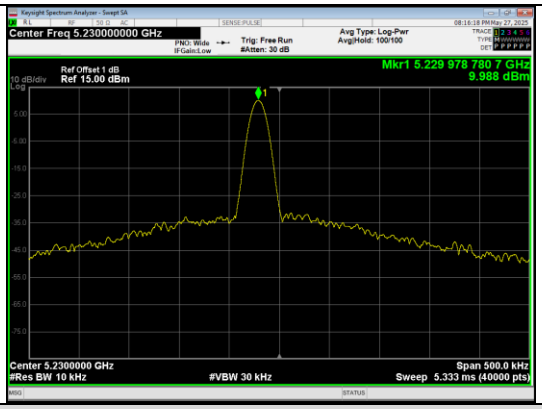
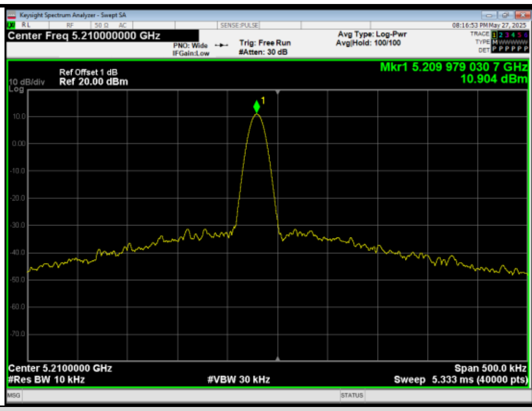


NT/NV_Antenna 0
IEEE 802.11ac_Channel 46_40MHz

IEEE 802.11ac_80



NT/NV_Antenna 0 **IEEE 802.11ac_Channel 42_80MHz**

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