Appendix C

RF Test Data for 5.8G WIFI (Conducted Measurement)

Product Name: 4G LTE WIFI ROUTER

Trade Mark: N/A

Test Model: FG8002AC

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	55.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Keven Wu
Supervised by:	Henry Wang

C.1 FREQUENCY STABILITY

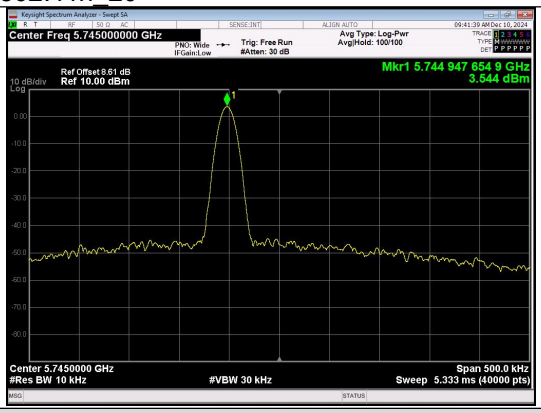
Test Result

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11n_20	149	3	5745.0	5744.947655	-9.11	Within authorized band	PASS
		157		5785.0	5784.986543	-2.33		PASS
		165		5825.0	5824.933030	-11.5		PASS
	IEEE 802.11n_40	151		5755.0	5754.949330	-8.8		PASS
		159		5795.0	5794.983356	-2.87		PASS
	IEEE 802.11ac_80	155		5775.0	5774.905929	-16.29		PASS

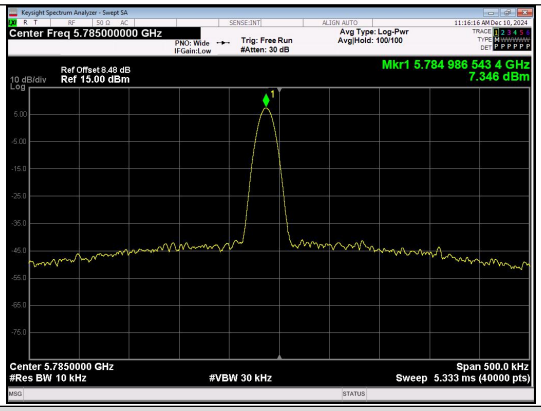
Test Graphs

NT/NV

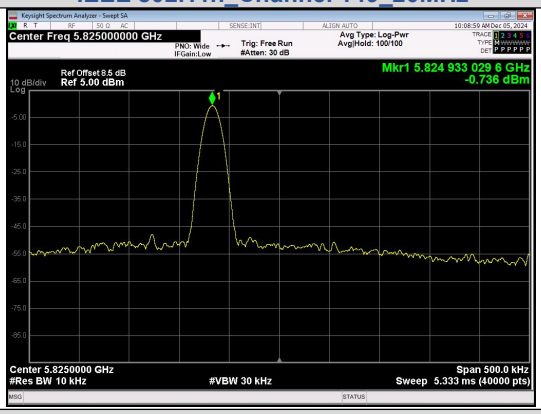
IEEE 802.11n_20



NT/NV_Antenna 3
IEEE 802.11n_Channel 149_20MHz

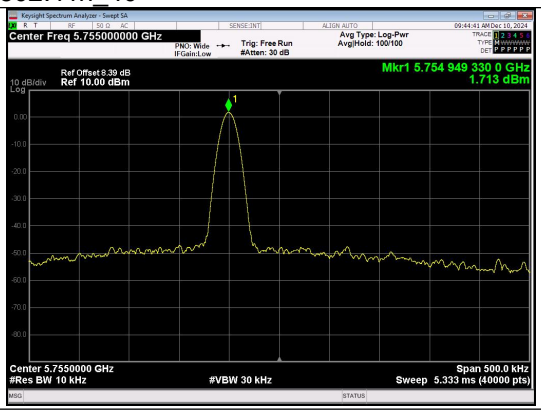


NT/NV_Antenna 3
IEEE 802.11n_Channel 157_20MHz

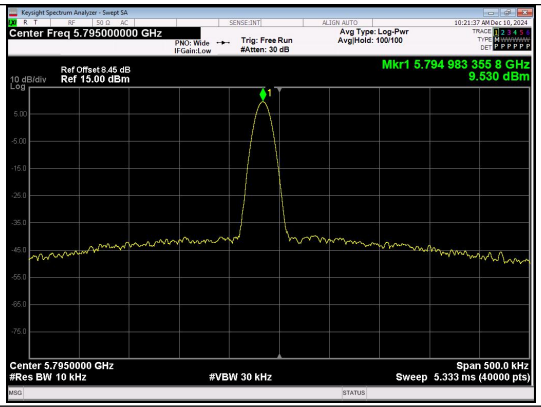


NT/NV_Antenna 3
IEEE 802.11n_Channel 165_20MHz

IEEE 802.11n_40

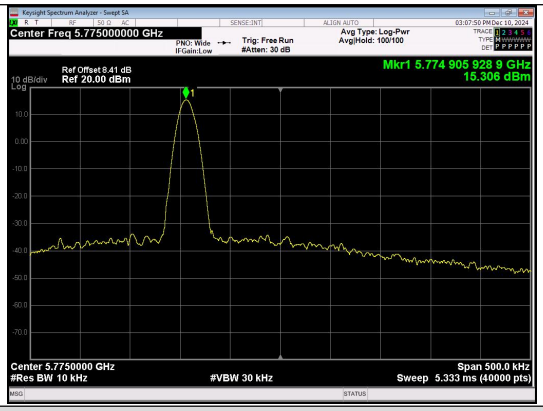


NT/NV_Antenna 3
IEEE 802.11n_Channel 151_40MHz



NT/NV_Antenna 3
IEEE 802.11n_Channel 159_40MHz

IEEE 802.11ac_80



NT/NV_Antenna 3
IEEE 802.11ac_Channel 155_80MHz

C.2 MAXIMUM CONDUCTED OUTPUT POWER

Conducted output power

Condition	Mode	Frequency (MHz)	Antenna	Maximum conducted output power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant3	15.743	26.44	Pass
NVNT	a	5785	Ant3	16.159	26.44	Pass
NVNT	a	5825	Ant3	14.408	26.44	Pass
NVNT	n20	5745	Ant3	15.773	26.44	Pass
NVNT	n20	5785	Ant3	15.787	26.44	Pass
NVNT	n20	5825	Ant3	14.216	26.44	Pass
NVNT	n40	5755	Ant3	14.743	26.44	Pass
NVNT	n40	5795	Ant3	14.422	26.44	Pass
NVNT	ac20	5745	Ant3	15.263	26.44	Pass
NVNT	ac20	5785	Ant3	15.196	26.44	Pass
NVNT	ac20	5825	Ant3	13.67	26.44	Pass
NVNT	ac40	5755	Ant3	15.508	26.44	Pass
NVNT	ac40	5795	Ant3	15.193	26.44	Pass
NVNT	ac80	5775	Ant3	14.89	26.44	Pass

Condition	Mode	Frequency (MHz)	Antenna	Maximum conducted output power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant4	16.469	30	Pass
NVNT	a	5785	Ant4	11.14	30	Pass
NVNT	a	5825	Ant4	14.328	30	Pass
NVNT	n20	5745	Ant4	12.866	30	Pass
NVNT	n20	5785	Ant4	12.885	30	Pass
NVNT	n20	5825	Ant4	11.249	30	Pass
NVNT	n40	5755	Ant4	14.902	30	Pass
NVNT	n40	5795	Ant4	14.84	30	Pass
NVNT	ac20	5745	Ant4	15.234	30	Pass
NVNT	ac20	5785	Ant4	15.155	30	Pass
NVNT	ac20	5825	Ant4	14.127	30	Pass
NVNT	ac40	5755	Ant4	15.157	30	Pass
NVNT	ac40	5795	Ant4	14.938	30	Pass
NVNT	ac80	5775	Ant4	15.559	30	Pass

MIMO

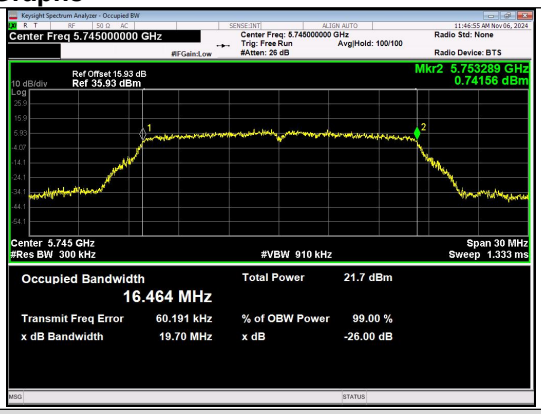
Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant3	Ant4	Ant3+Ant4		
NVNT	n20	5745	15.773	12.866	17.57	26.44	Pass
NVNT	n20	5785	15.787	12.885	17.58	26.44	Pass
NVNT	n20	5825	14.216	11.249	15.99	26.44	Pass
NVNT	n40	5755	14.743	14.902	17.83	26.44	Pass
NVNT	n40	5795	14.422	14.84	17.65	26.44	Pass
NVNT	ac20	5745	15.263	15.234	18.26	26.44	Pass
NVNT	ac20	5785	15.196	15.155	18.19	26.44	Pass
NVNT	ac20	5825	13.67	14.127	16.91	26.44	Pass
NVNT	ac40	5755	15.508	15.157	18.35	26.44	Pass
NVNT	ac40	5795	15.193	14.938	18.08	26.44	Pass
NVNT	ac80	5775	14.89	15.559	18.25	26.44	Pass

C.3 99% BANDWIDTH

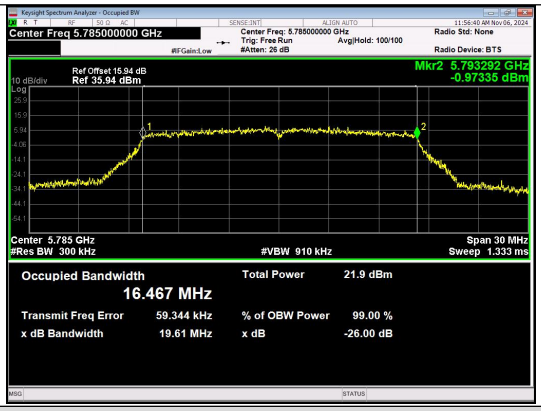
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	149	3	5745	16.464
	157		5785	16.467
	165		5825	16.490
IEEE 802.11n_20	149		5745	17.597
	157		5785	17.594
	165		5825	17.600
IEEE 802.11n_40	151		5755	35.989
	159		5795	36.019
IEEE 802.11ac_20	149		5745	17.649
	157		5785	17.646
	165		5825	17.646
IEEE 802.11ac_40	151		5755	35.936
	159		5795	36.039
IEEE 802.11ac_80	155		5775	75.596

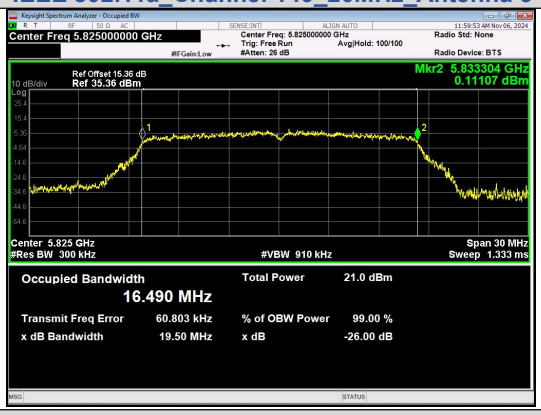
Test Graphs



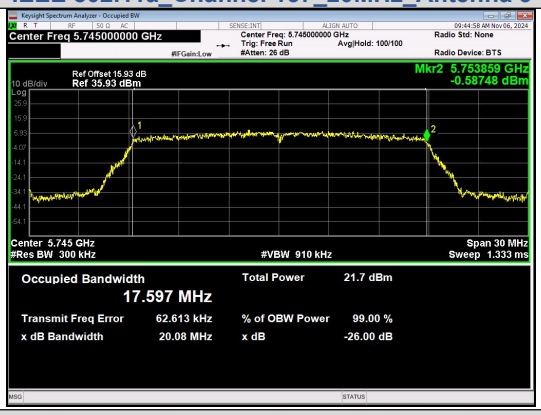
IEEE 802.11a_Channel 149_20MHz_Antenna 3



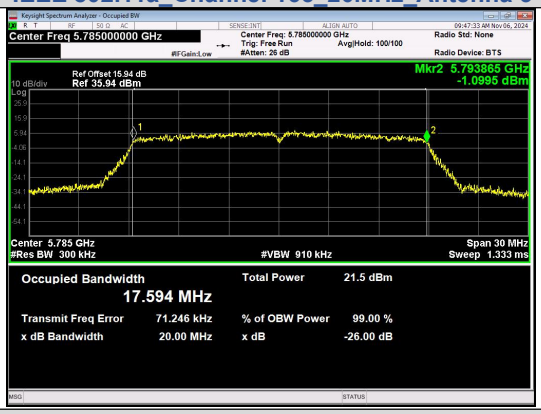
IEEE 802.11a_Channel 157_20MHz_Antenna 3



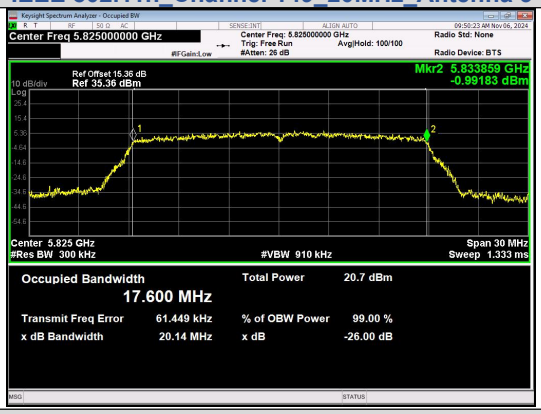
IEEE 802.11a_Channel 165_20MHz_Antenna 3



IEEE 802.11n_Channel 149_20MHz_Antenna 3



IEEE 802.11n_Channel 157_20MHz_Antenna 3



IEEE 802.11n_Channel 165_20MHz_Antenna 3