

Appendix B

RF Test Data for 5.2G 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

B.1 FREQUENCY STABILITY

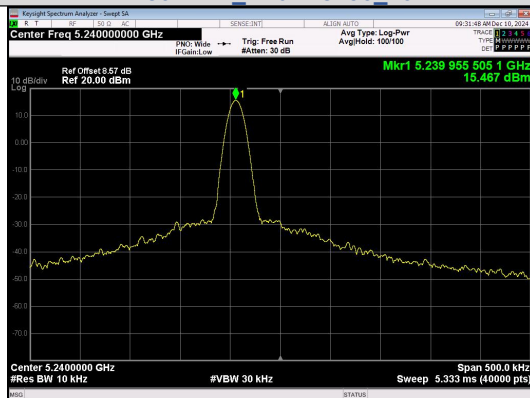
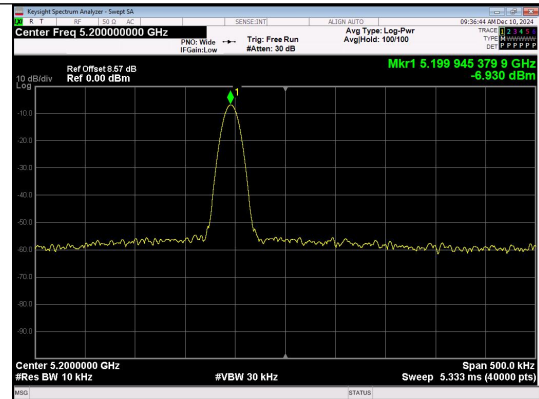
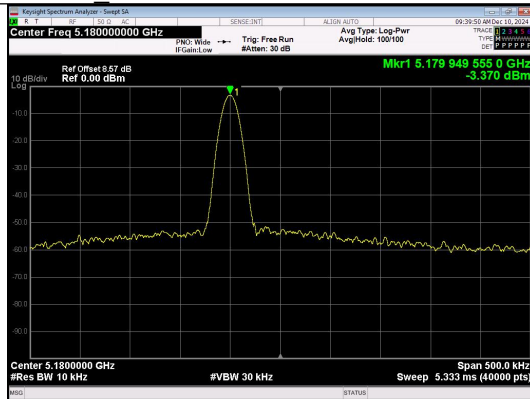
Test Result

Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11n_20	36	3	5180.0	5179.949555	-9.74	Within authorized band	PASS
		40		5200.0	5199.945380	-10.5		PASS
		48		5240.0	5239.955505	-8.49		PASS
	IEEE 802.11ac_40	38		5190.0	5189.968143	-6.14		PASS
		46		5230.0	5229.974156	-4.94		PASS
	IEEE 802.11ac_80	42		5210.0	5209.963893	-6.93		PASS

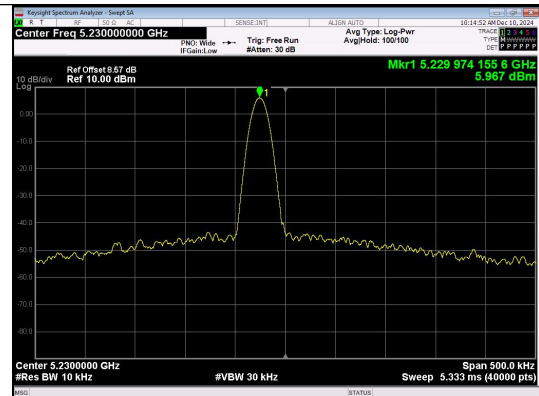
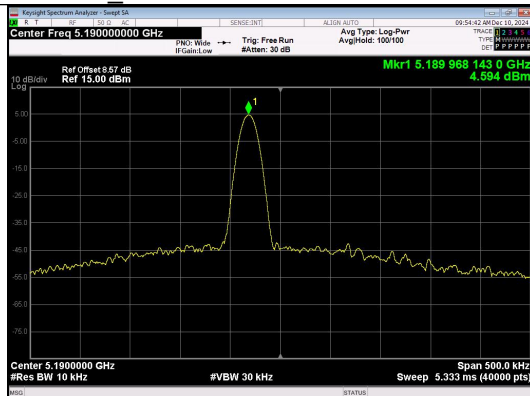
Test Graphs

NT/NV

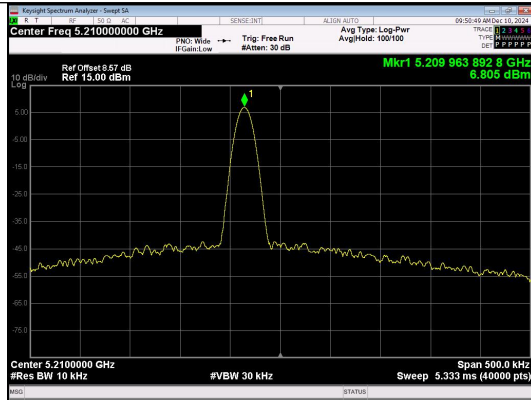
IEEE 802.11n 20



IEEE 802.11ac 40



IEEE 802.11ac_80



NT/NV_Antenna 3
IEEE 802.11ac_Channel 42_80MHz

B.2 MAXIMUM CONDUCTED OUTPUT POWER

Test Result

Condition	Mode	Frequency (MHz)	Antenna	Maximum conducted output power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant3	17.72	30	Pass
NVNT	a	5200	Ant3	17.94	30	Pass
NVNT	a	5240	Ant3	19.43	30	Pass
NVNT	n20	5180	Ant3	16.61	30	Pass
NVNT	n20	5200	Ant3	16.83	30	Pass
NVNT	n20	5240	Ant3	18.24	30	Pass
NVNT	n40	5190	Ant3	18.38	30	Pass
NVNT	n40	5230	Ant3	19.43	30	Pass
NVNT	ac20	5180	Ant3	15.84	30	Pass
NVNT	ac20	5200	Ant3	16.17	30	Pass
NVNT	ac20	5240	Ant3	17.34	30	Pass
NVNT	ac40	5190	Ant3	17.65	30	Pass
NVNT	ac40	5230	Ant3	18.43	30	Pass
NVNT	ac80	5210	Ant3	19.45	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Maximum conducted output power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant4	13.80	30	Pass
NVNT	a	5200	Ant4	17.94	30	Pass
NVNT	a	5240	Ant4	19.83	30	Pass
NVNT	n20	5180	Ant4	12.93	30	Pass
NVNT	n20	5200	Ant4	17.09	30	Pass
NVNT	n20	5240	Ant4	18.46	30	Pass
NVNT	n40	5190	Ant4	13.35	30	Pass
NVNT	n40	5230	Ant4	14.67	30	Pass
NVNT	ac20	5180	Ant4	12.69	30	Pass
NVNT	ac20	5200	Ant4	13.53	30	Pass
NVNT	ac20	5240	Ant4	14.42	30	Pass
NVNT	ac40	5190	Ant4	13.41	30	Pass
NVNT	ac40	5230	Ant4	14.48	30	Pass
NVNT	ac80	5210	Ant4	15.01	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant3	Ant4	Ant3+Ant4		
NVNT	n20	5180	16.61	12.93	18.16	27.58	Pass
NVNT	n20	5200	16.83	17.09	19.97	27.58	Pass
NVNT	n20	5240	18.24	18.46	21.36	27.58	Pass
NVNT	n40	5190	18.38	13.35	19.57	27.58	Pass
NVNT	n40	5230	19.43	14.67	20.68	27.58	Pass
NVNT	ac20	5180	15.84	12.69	17.55	27.58	Pass
NVNT	ac20	5200	16.17	13.53	18.06	27.58	Pass
NVNT	ac20	5240	17.34	14.42	19.13	27.58	Pass
NVNT	ac40	5190	17.65	13.41	19.04	27.58	Pass
NVNT	ac40	5230	18.43	14.48	19.90	27.58	Pass
NVNT	ac80	5210	19.45	15.01	20.78	27.58	Pass

B.3 99% BANDWIDTH

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	3	5180	16.431
	40		5200	16.476
	48		5240	16.484
IEEE 802.11n_20	36		5180	17.584
	40		5200	17.617
	48		5240	17.574
IEEE 802.11n_40	38		5190	36.084
	46		5230	35.948
IEEE 802.11ac_20	36		5180	17.634
	40		5200	17.672
	48		5240	17.637
IEEE 802.11ac_40	38		5190	36.152
	46		5230	35.966
IEEE 802.11ac_80	42		5210	75.558

Test Graphs

