

Appendix E

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Smart Phone

Trade Mark: HYUNDAI

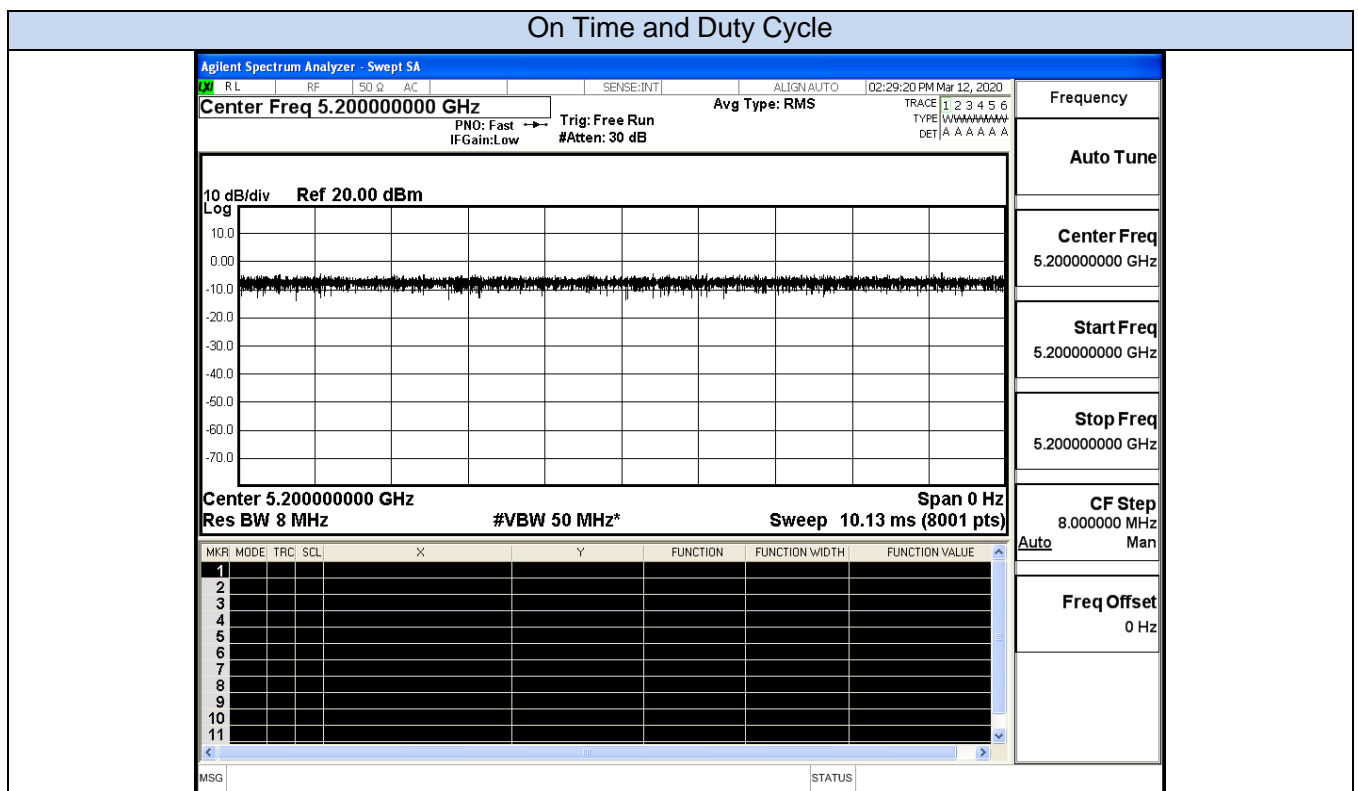
Test Model: Eternity P7

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond. Lu
Supervised by:	Tom. Liu

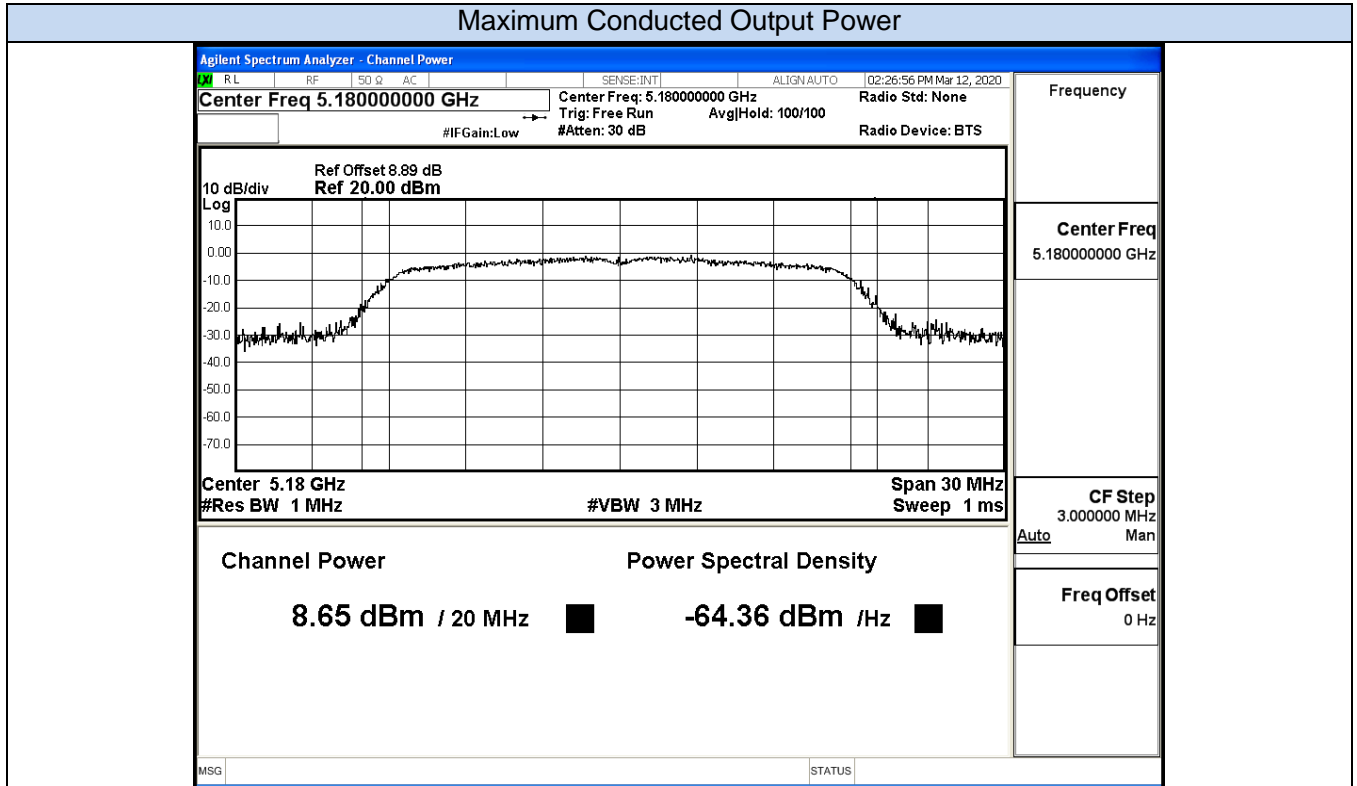
E.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	100	0.00	0.01

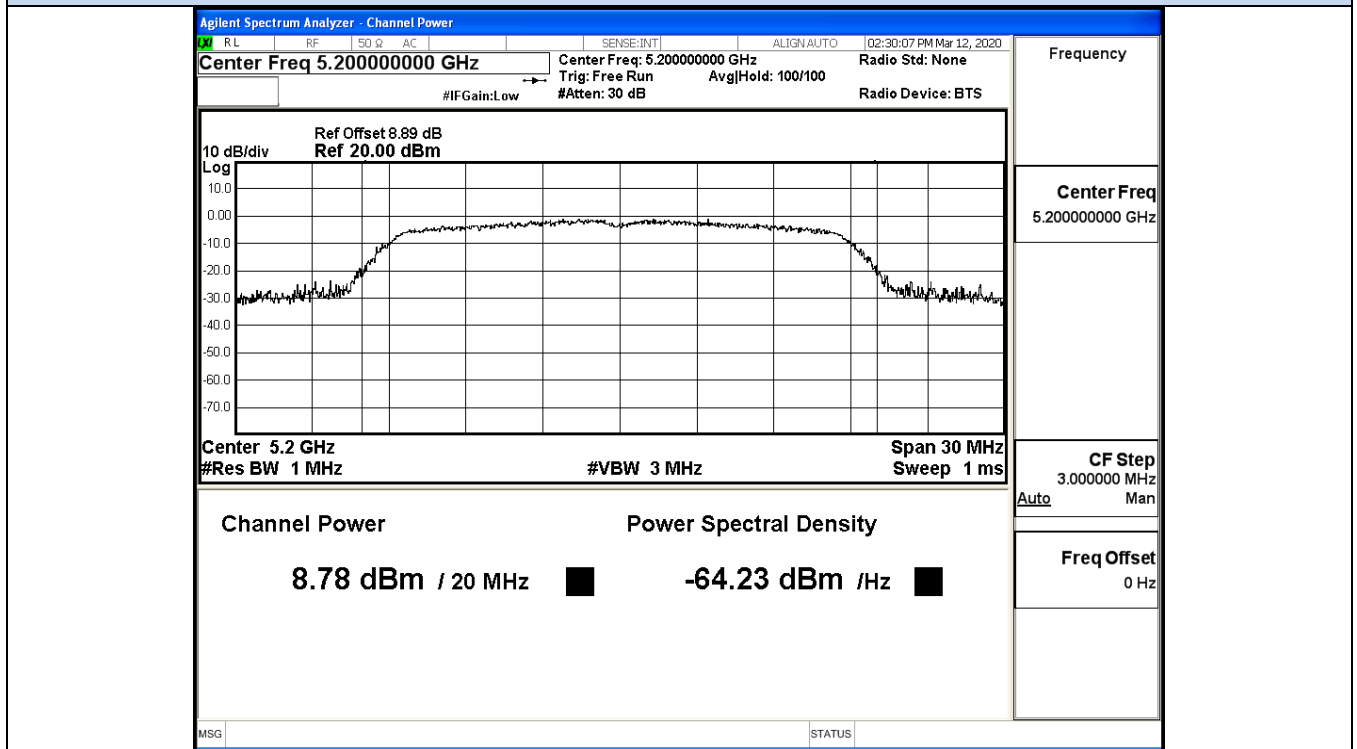


E.2 Maximum Conduct Output Power

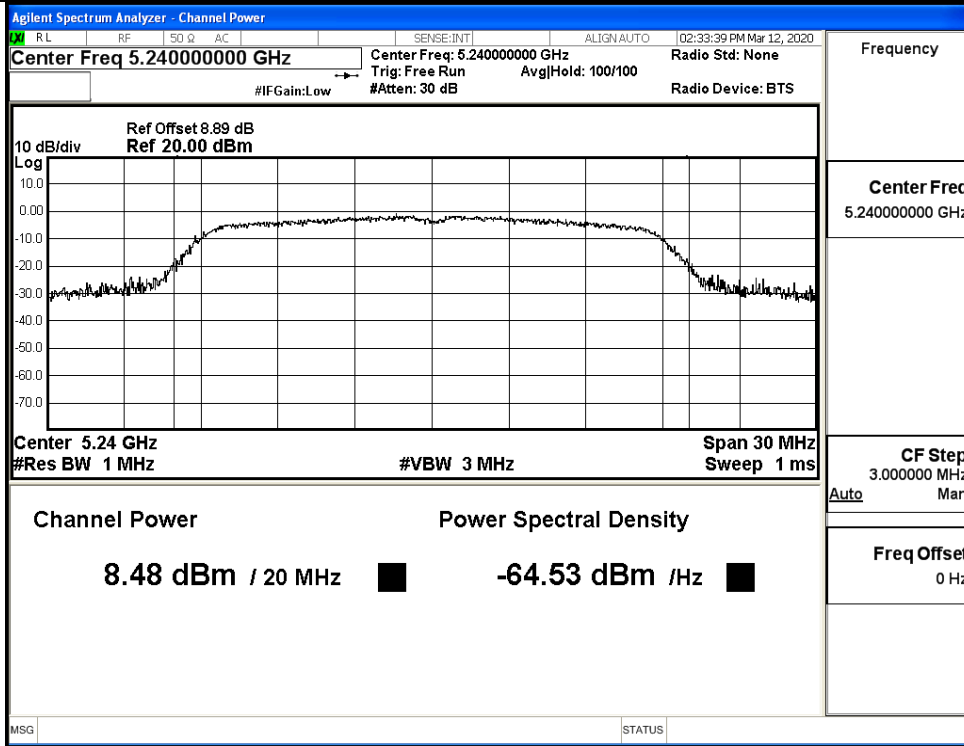
Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)	Verdict
11A	36	5180	8.65	0	8.65	24	Pass
	40	5200	8.78	0	8.78		Pass
	48	5240	8.48	0	8.48		Pass



IEEE 802.11a / Channel 36 / 5180MHz



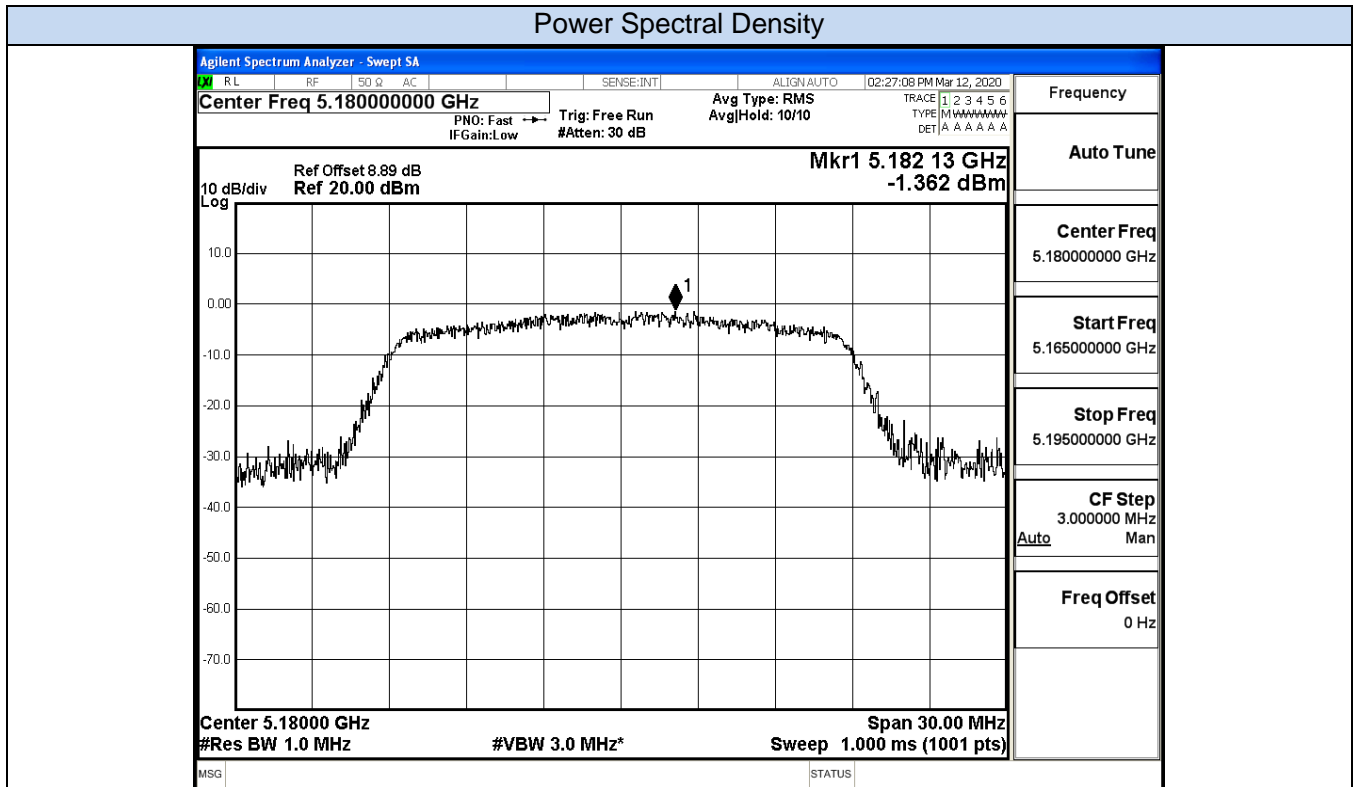
IEEE 802.11a / Channel 40 / 5200MHz



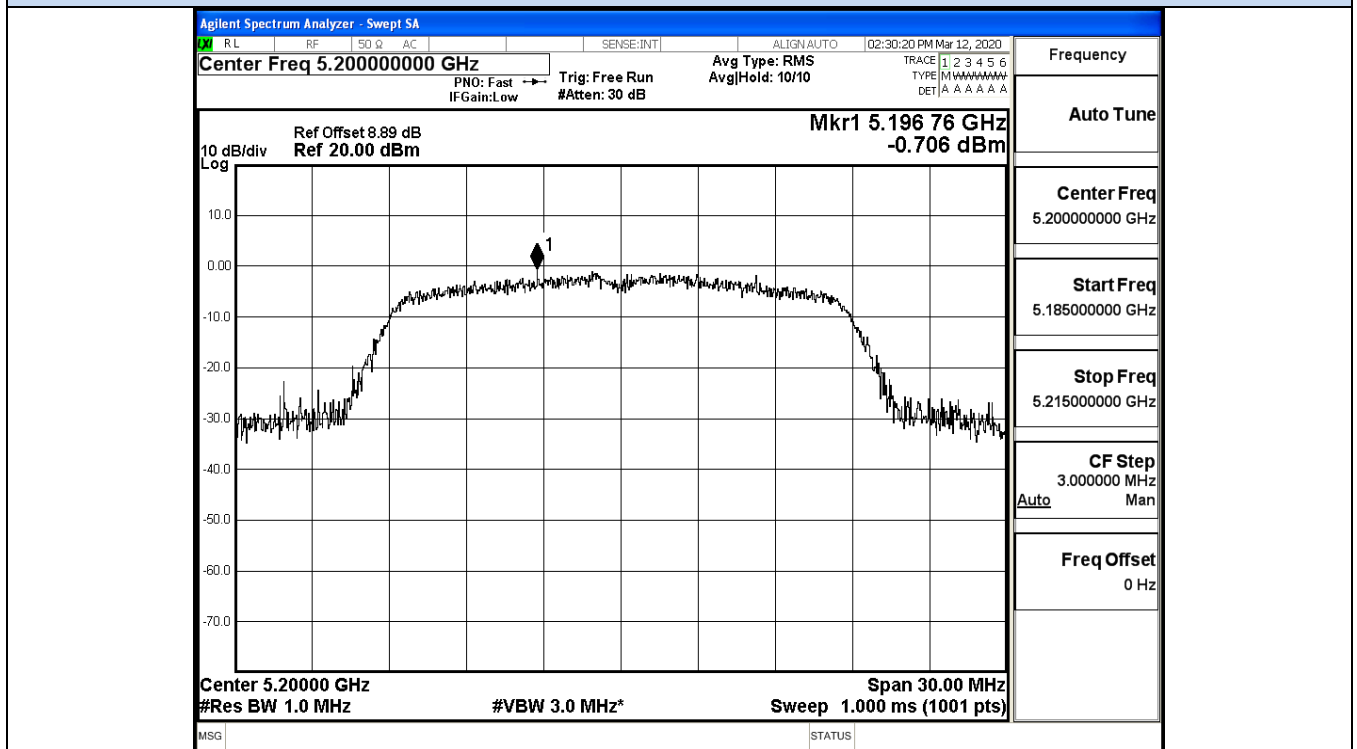
IEEE 802.11a / Channel 48 / 5240MHz

E.3 Power Spectral Density

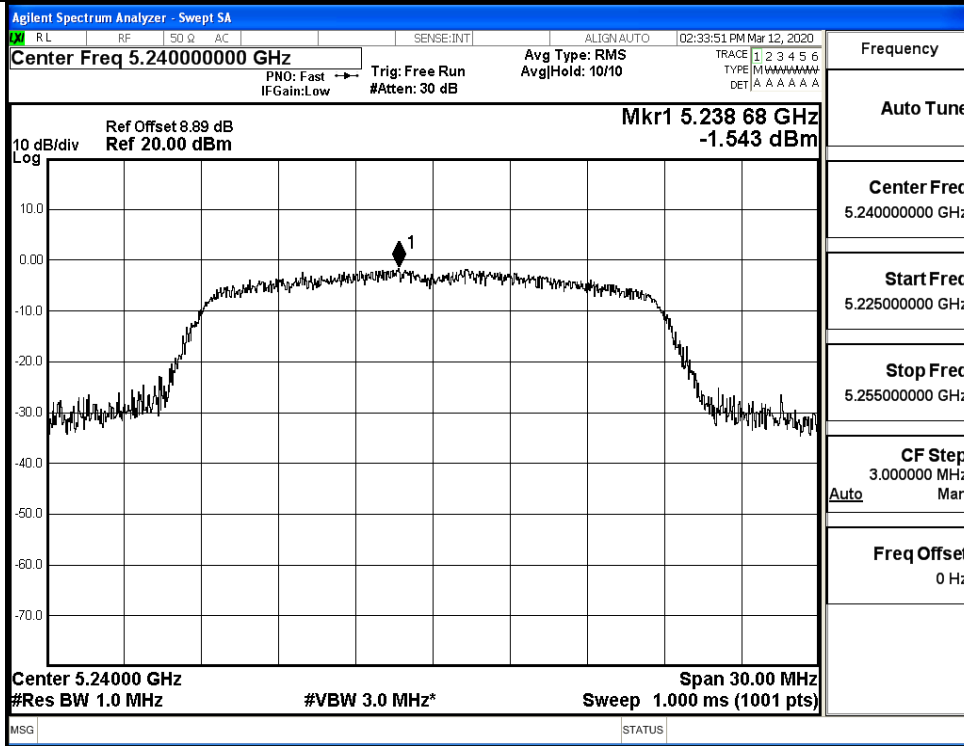
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	36	5180	-1.36	0	-1.36	11	Pass
	40	5200	-0.71	0	-0.71		Pass
	48	5240	-1.54	0	-1.54		Pass



IEEE 802.11a / Channel 36 / 5180MHz



IEEE 802.11a / Channel 40 / 5200MHz

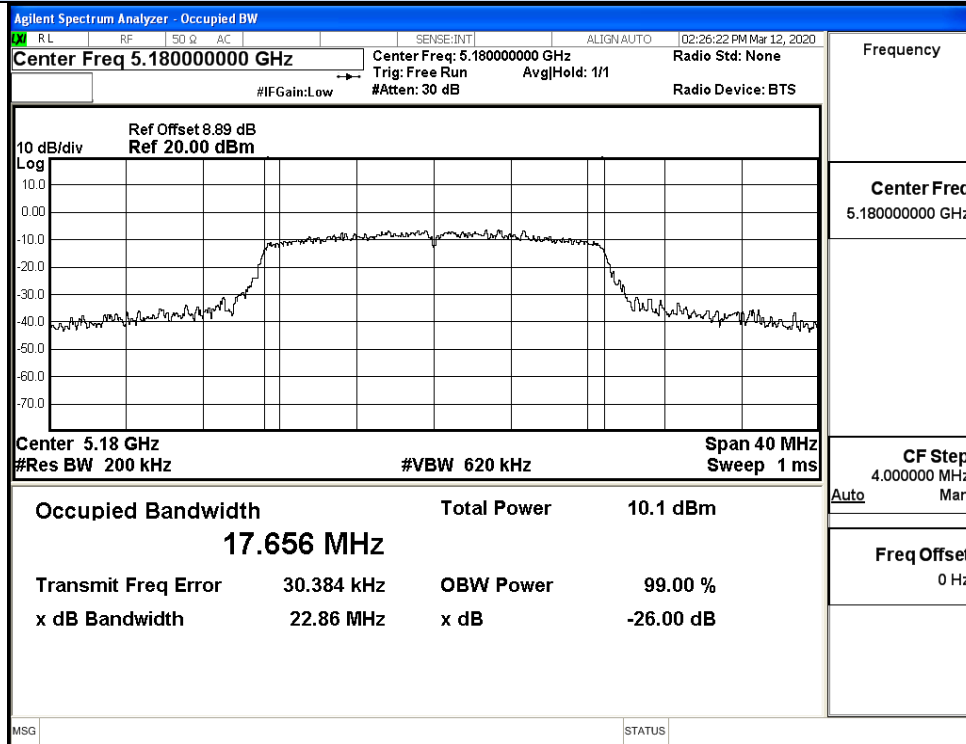


IEEE 802.11a / Channel 48 / 5240MHz

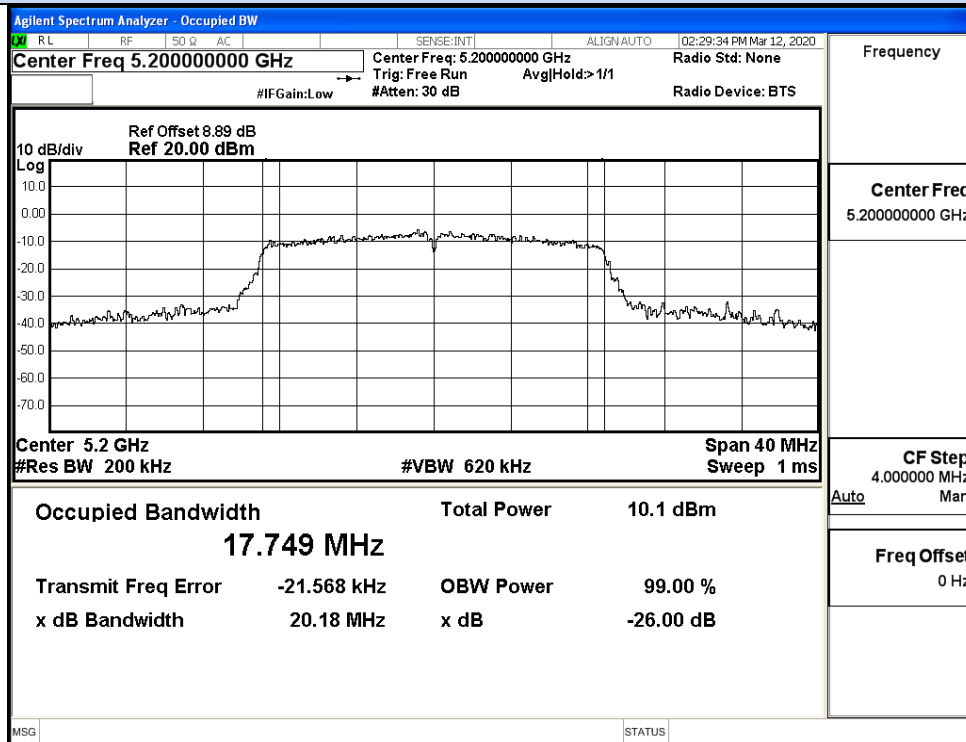
E.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	22.86	No Limit	Pass
	40	5200	20.18		Pass
	48	5240	23.11		Pass

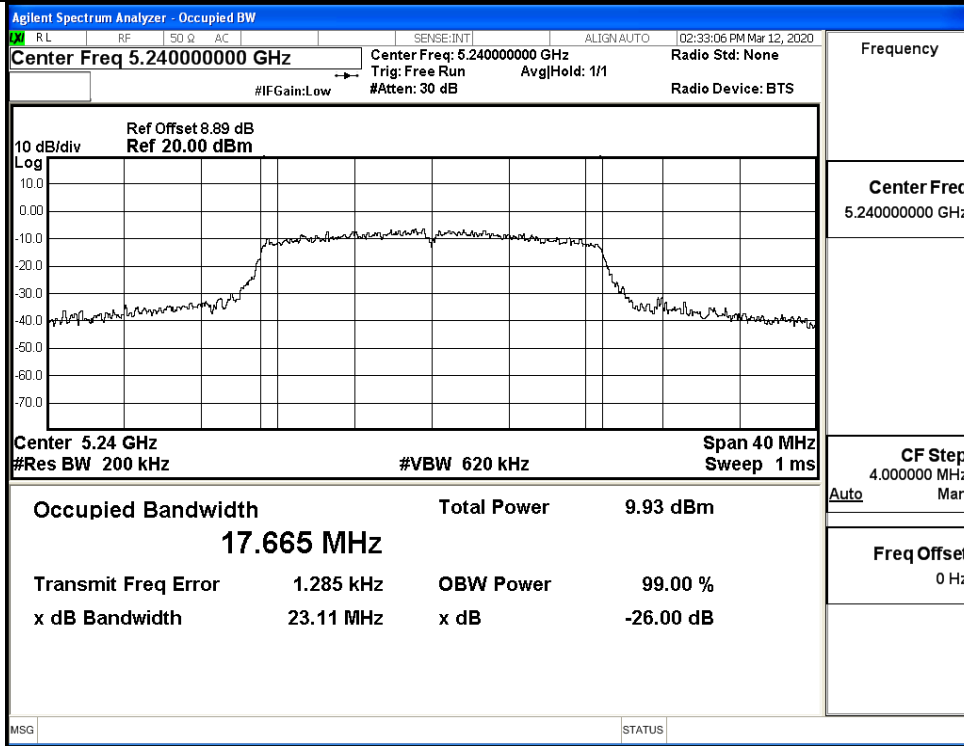
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz



IEEE 802.11a / Channel 40 / 5200MHz

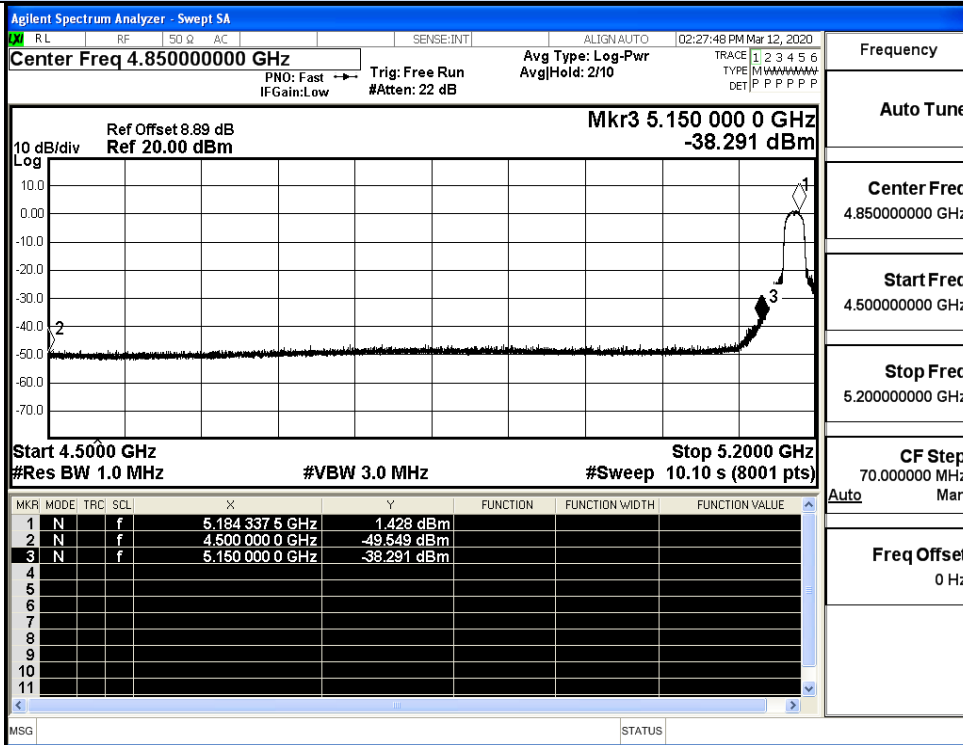


IEEE 802.11a / Channel 48 / 5240MHz

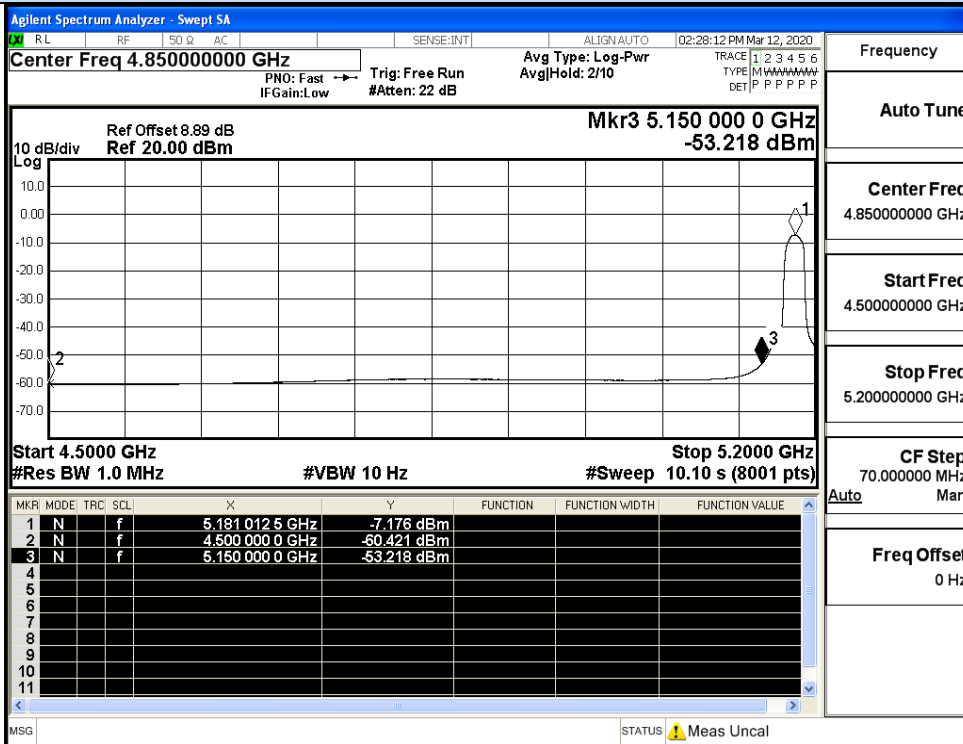
E.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
11A	36	4500.0	-49.55	2.00	0	47.68	Peak	68.20	Pass
		4500.0	-60.42	2.00	0	36.81	Average	54.00	Pass
		5150.0	-38.29	2.00	0	58.94	Peak	68.20	Pass
		5150.0	-53.22	2.00	0	44.01	Average	54.00	Pass
	48	5350.0	-49.31	2.00	0	47.92	Peak	68.20	Pass
		5350.0	-59.43	2.00	0	37.80	Average	54.00	Pass
		5460.0	-48.59	2.00	0	48.64	Peak	68.20	Pass
		5460.0	-59.51	2.00	0	37.72	Average	54.00	Pass

Undesirable Emissions Measurement

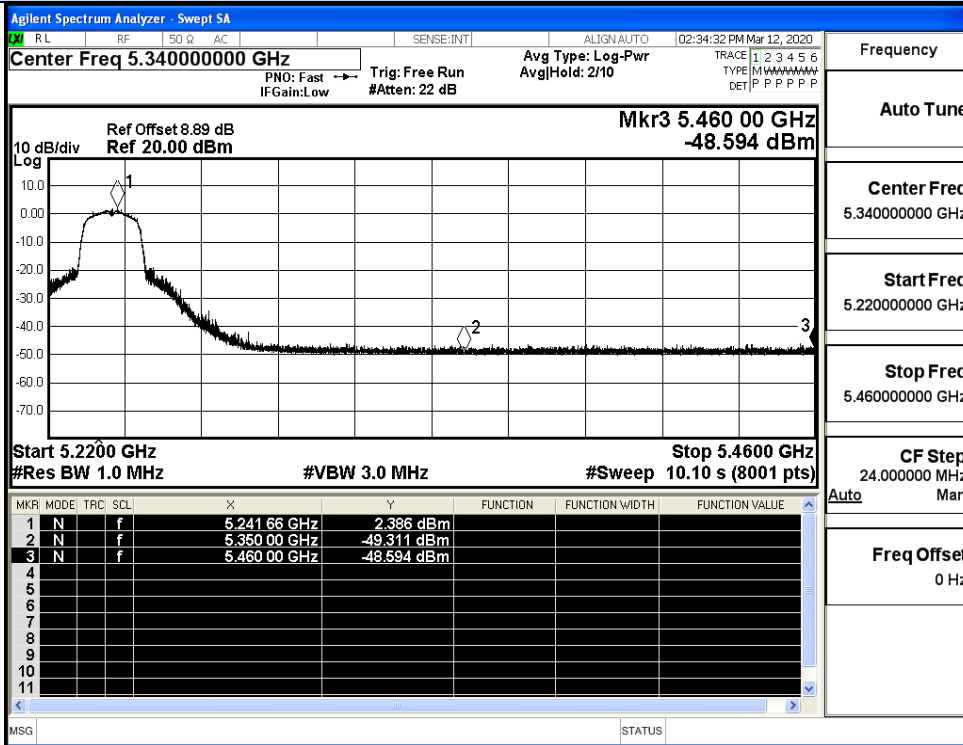


IEEE 802.11a / Channel 36 / 5180MHz / Peak

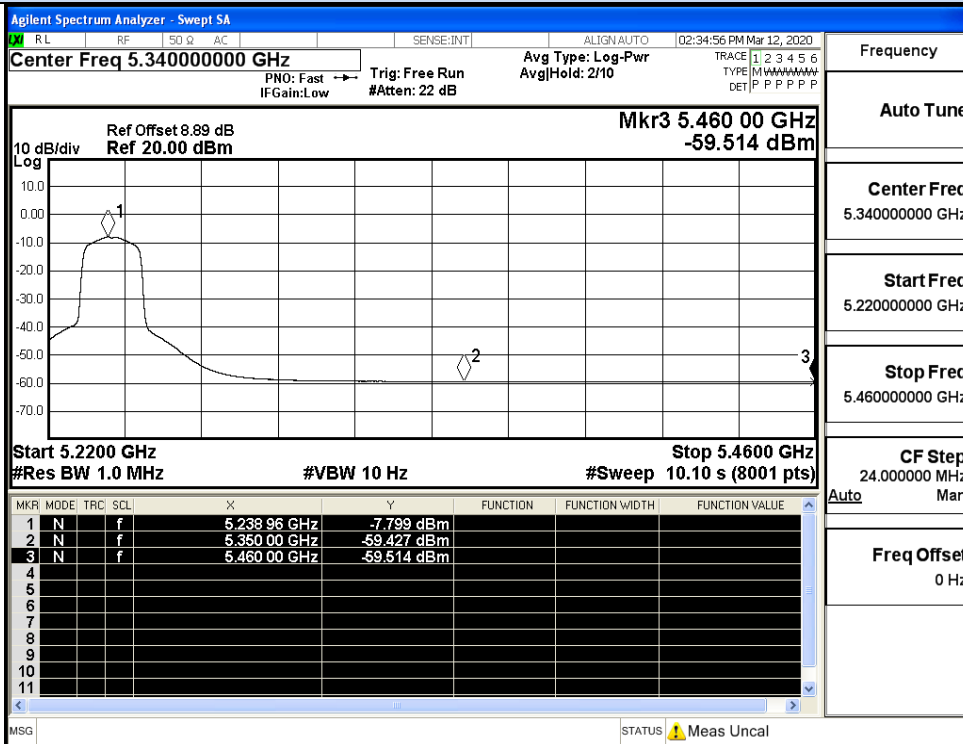


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement



IEEE 802.11a / Channel 48 / 5240MHz / Peak



IEEE 802.11a / Channel 48 / 5240MHz / Average