

Appendix F

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Smart Phone

Trade Mark: HYUNDAI

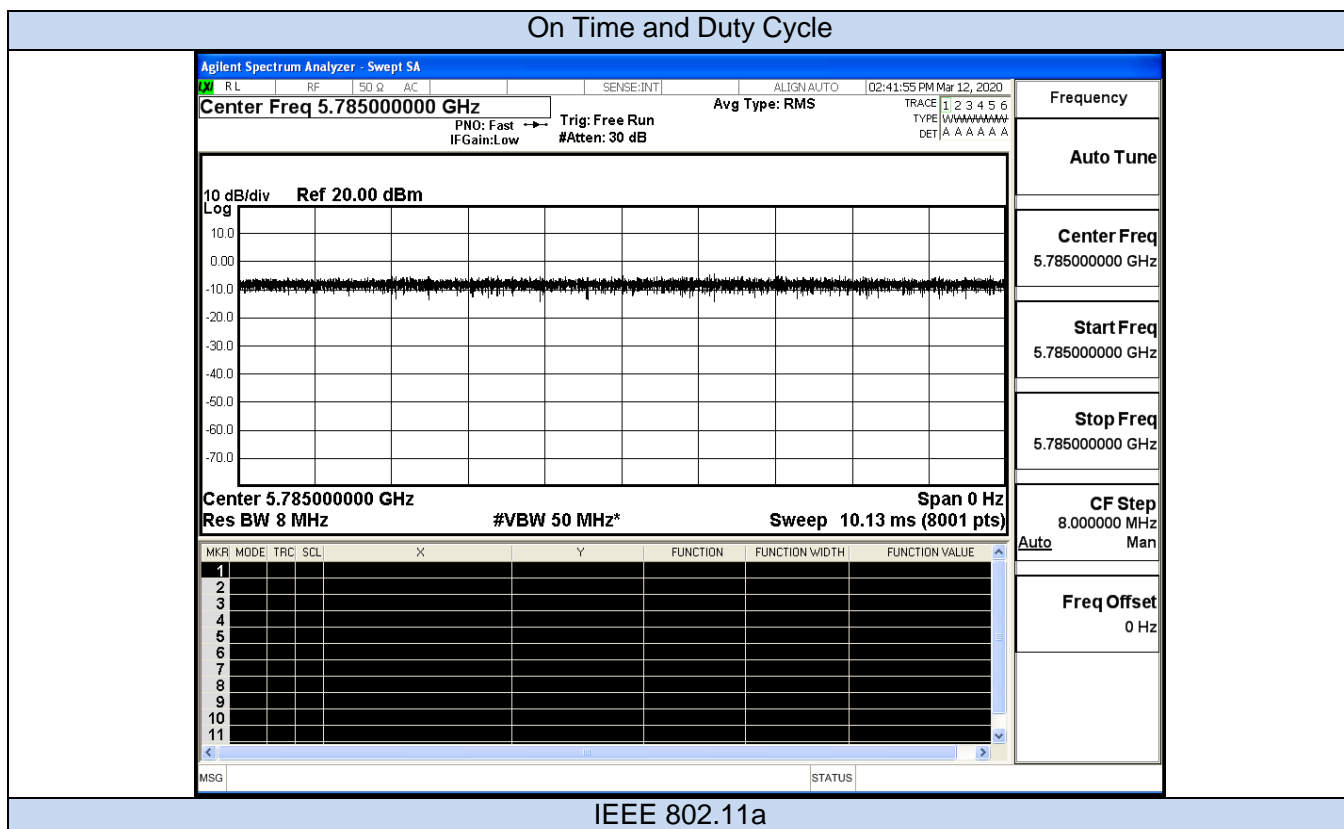
Test Model: Eternity P7

Environmental Conditions

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

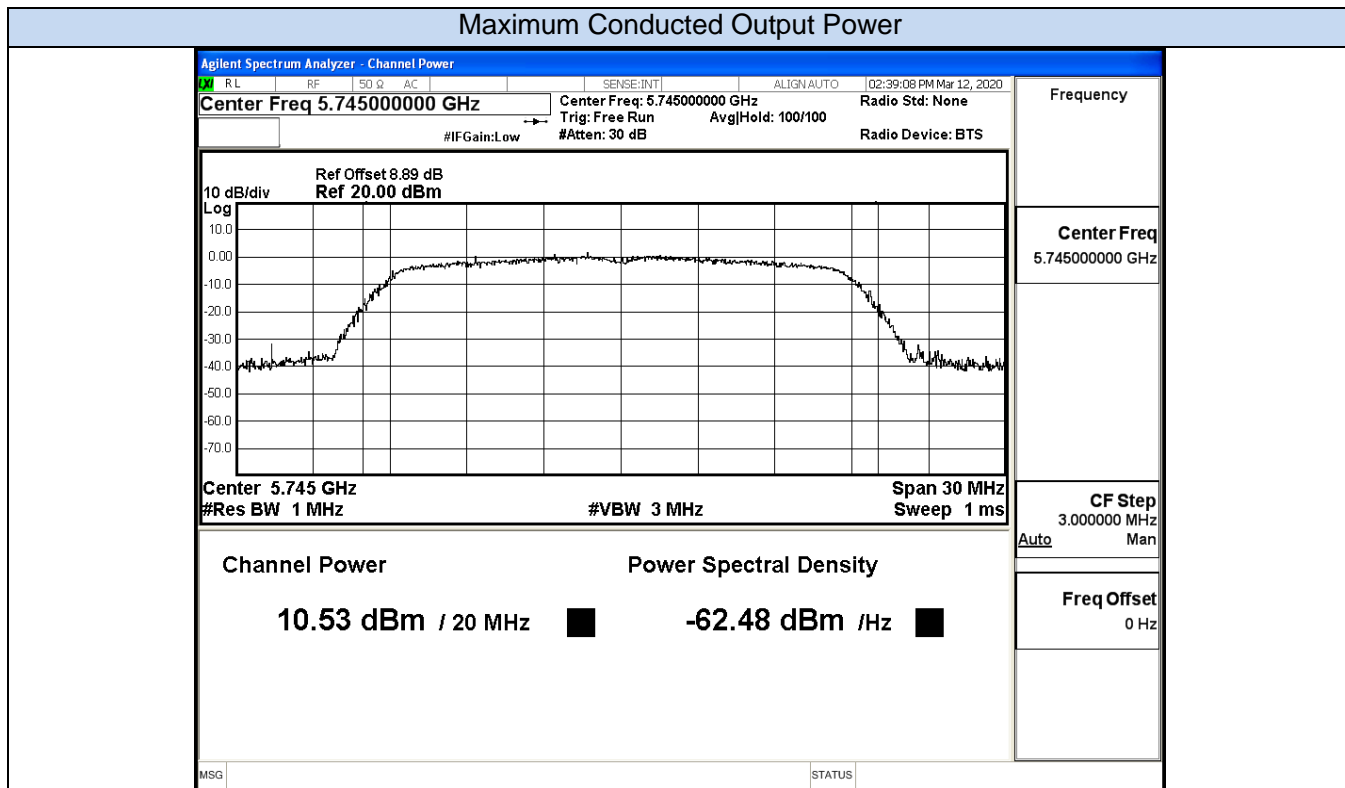
F.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5785	100	0.00	0.01

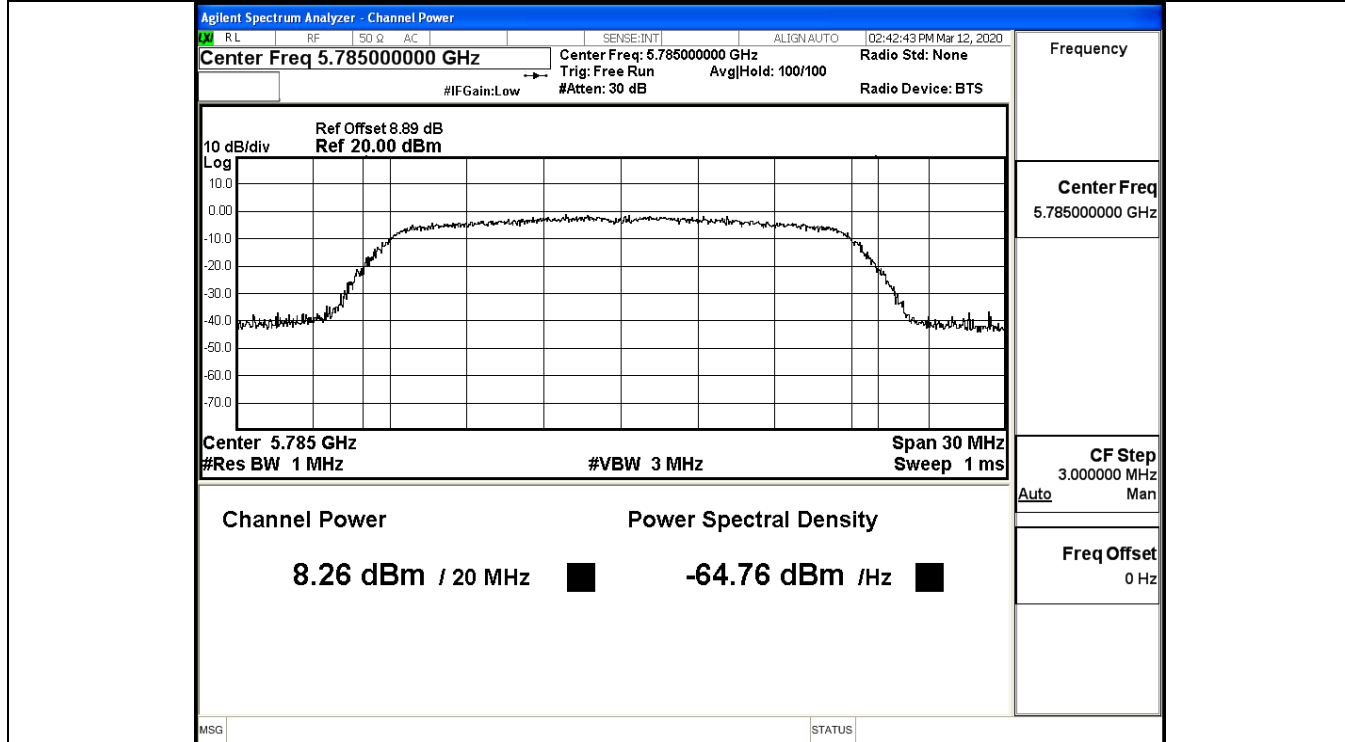


F.2 Maximum Conduct Output Power

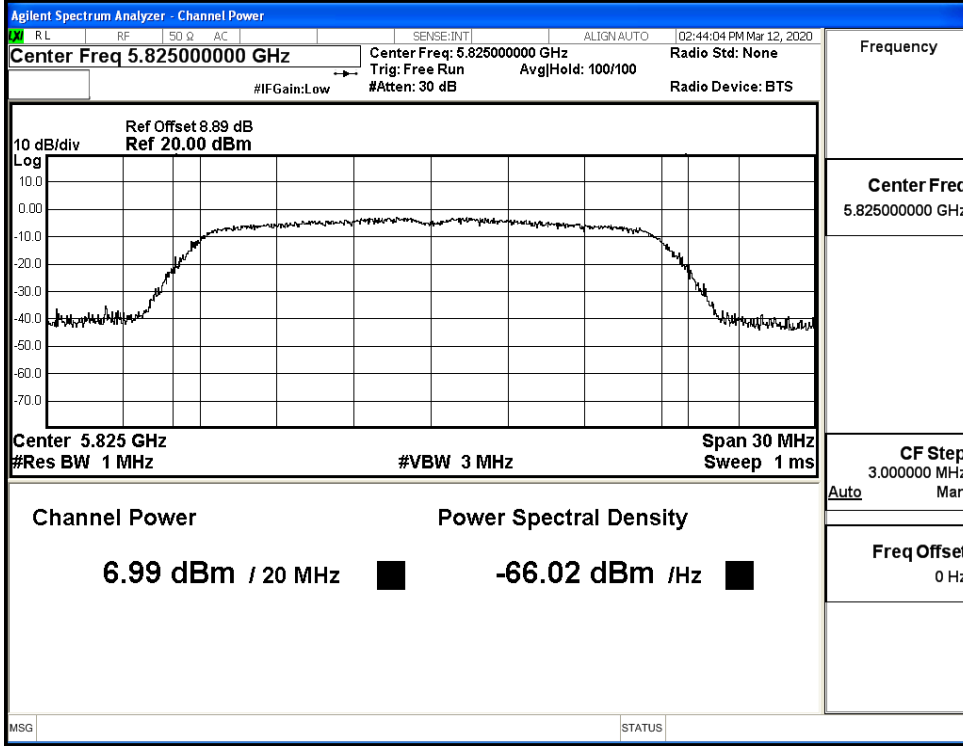
Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	149	5745	10.53	0	10.53	30	Pass
	157	5785	8.26	0	8.26		Pass
	165	5825	6.99	0	6.99		Pass



IEEE 802.11a / Channel 149 / 5745MHz



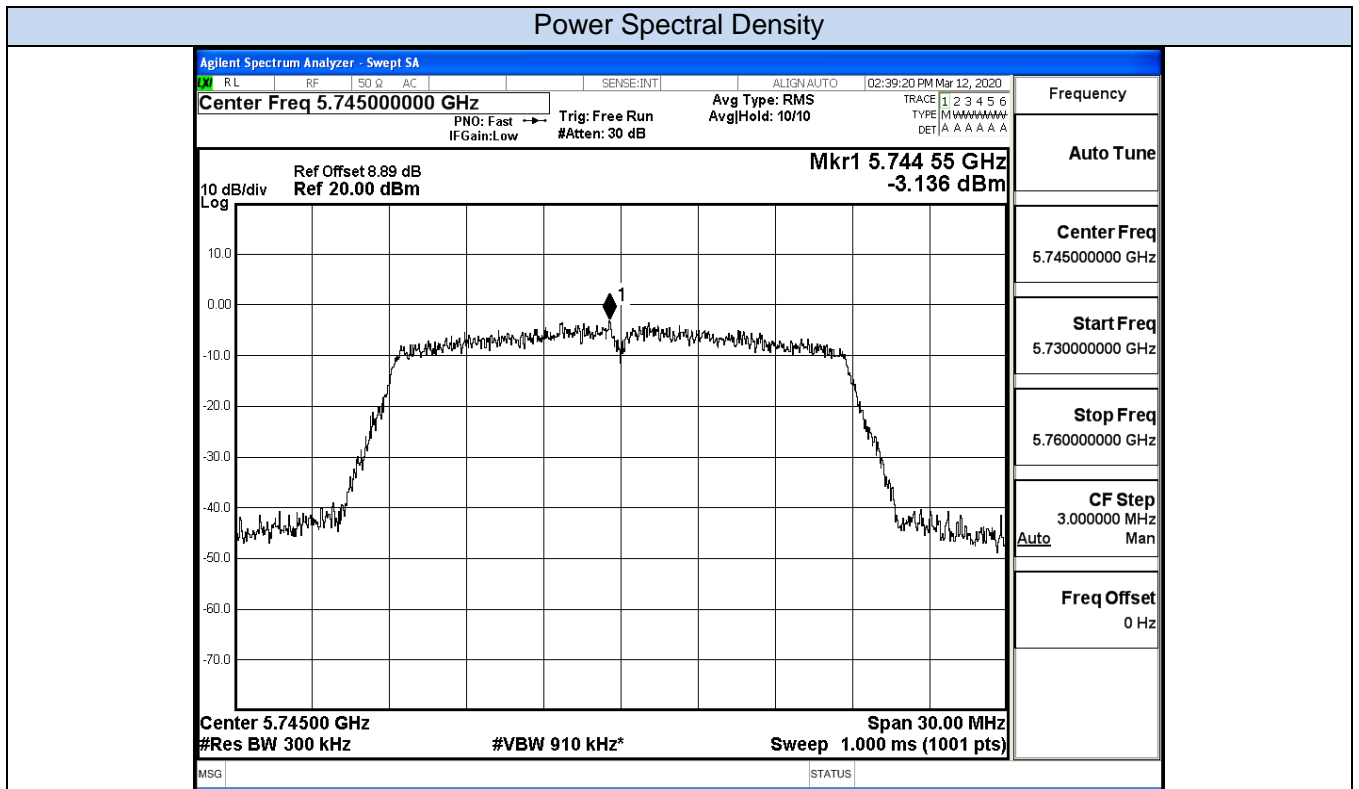
IEEE 802.11a / Channel 157 / 5785MHz



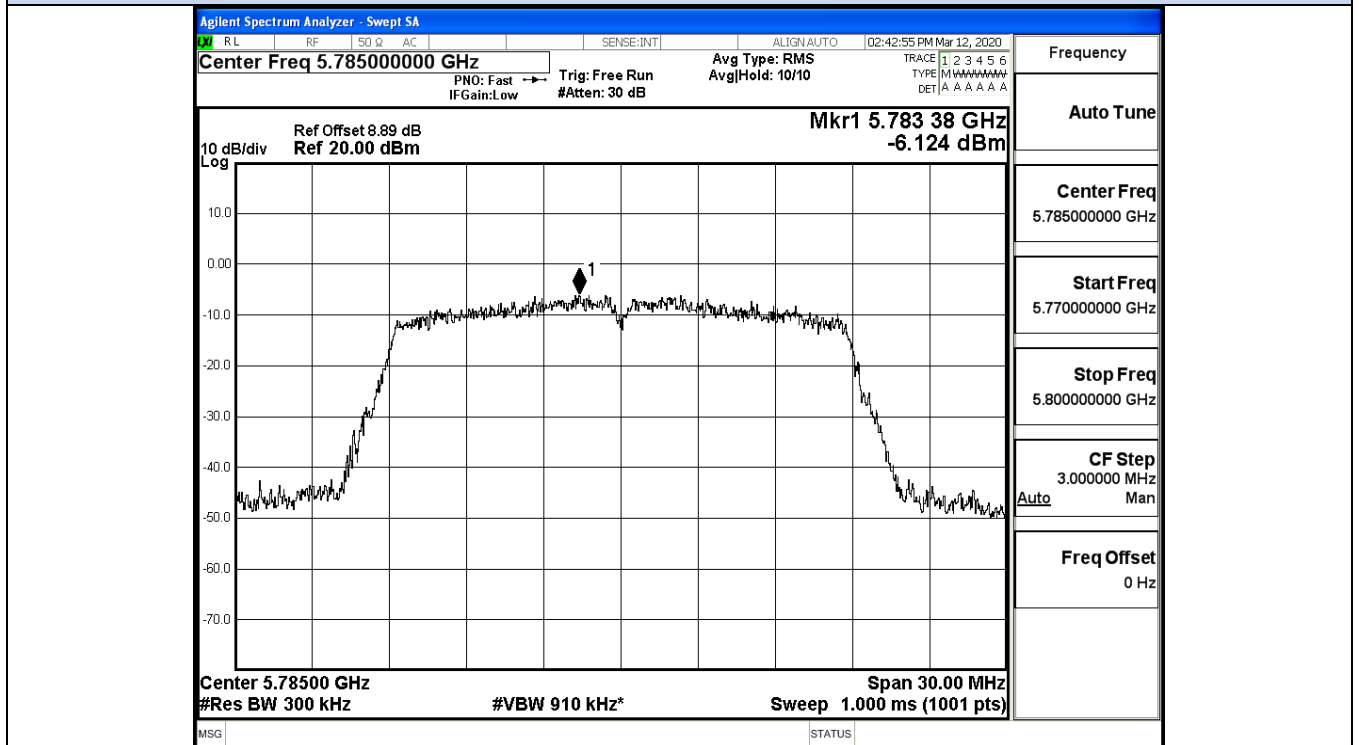
IEEE 802.11a / Channel 165 / 5825MHz

F.3 Power Spectral Density

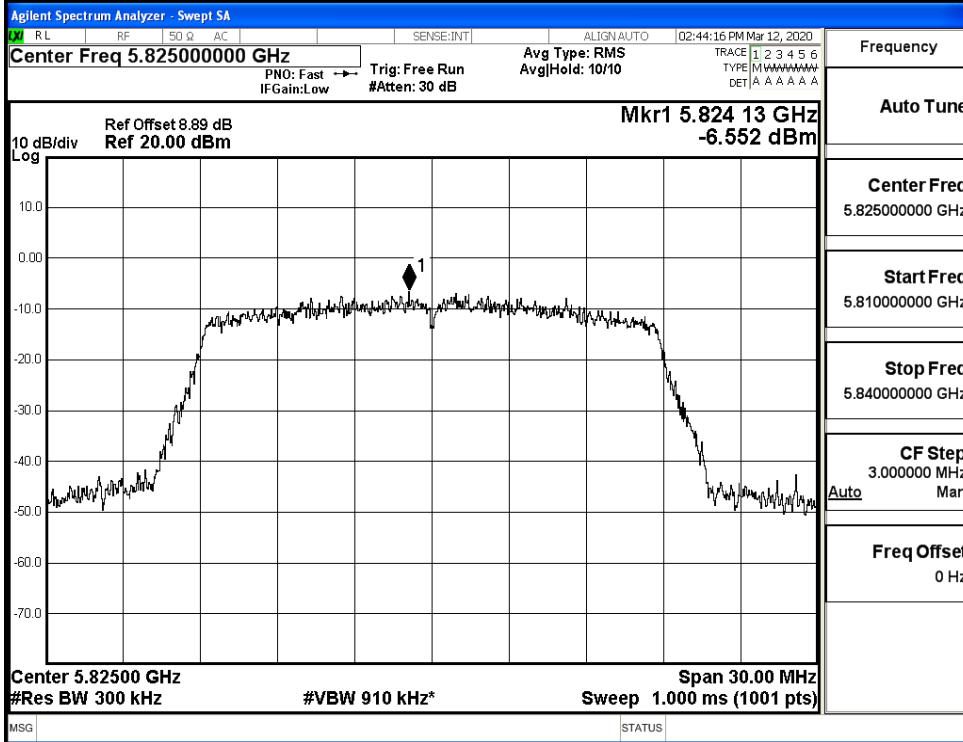
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11A	149	5745	-3.14	0	2.218	-0.92	30	Pass
	157	5785	-6.12	0	2.218	-3.91		Pass
	165	5825	-6.55	0	2.218	-4.33		Pass



IEEE 802.11a / Channel 149 / 5745MHz



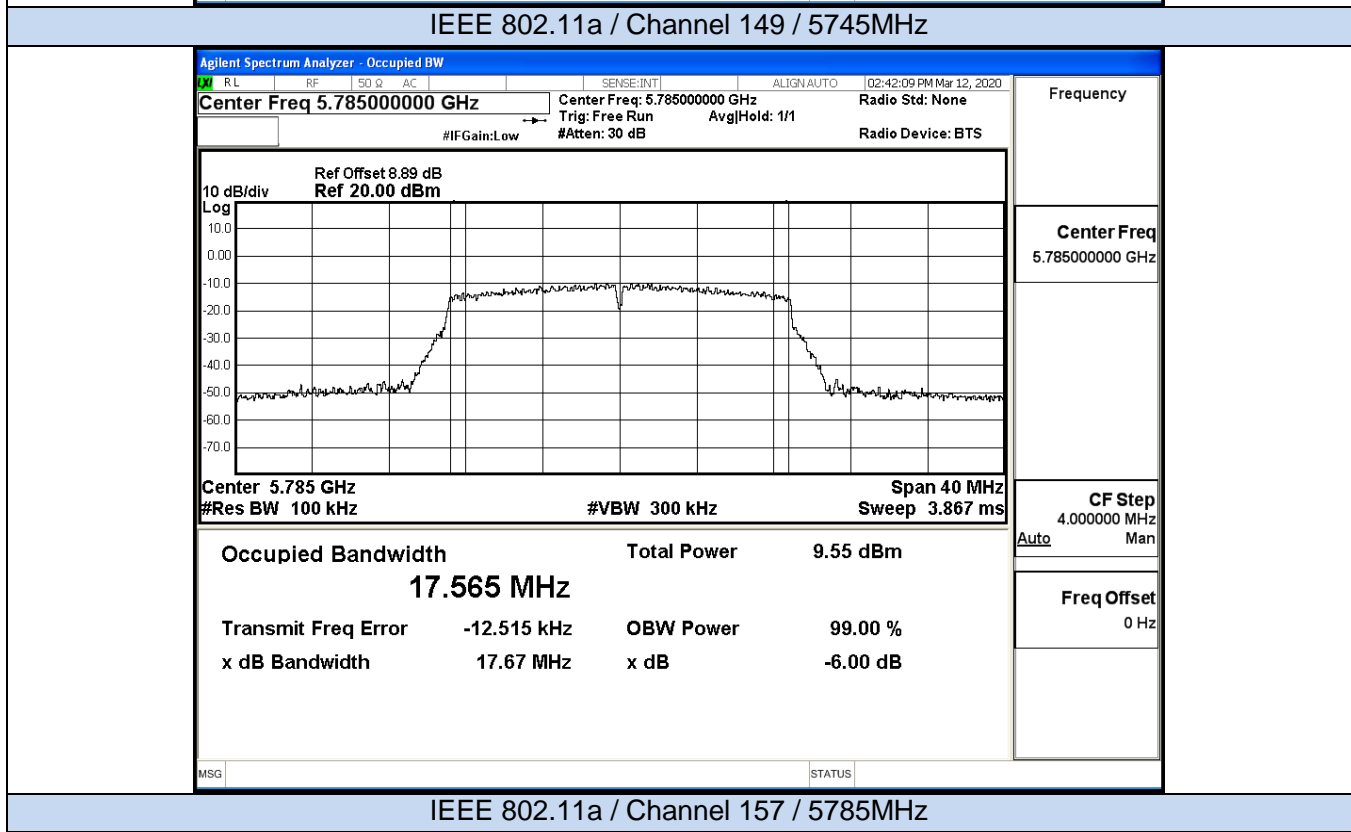
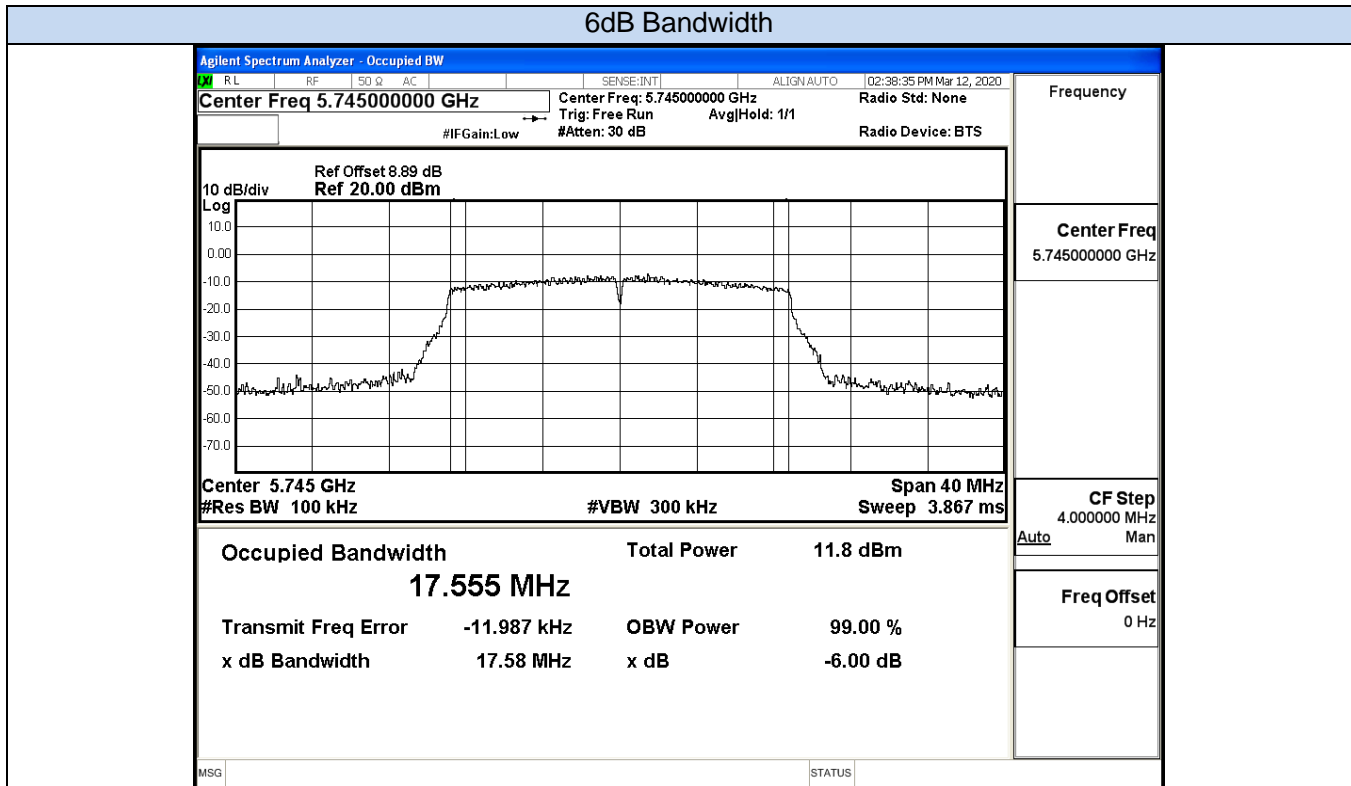
IEEE 802.11a / Channel 157 / 5785MHz

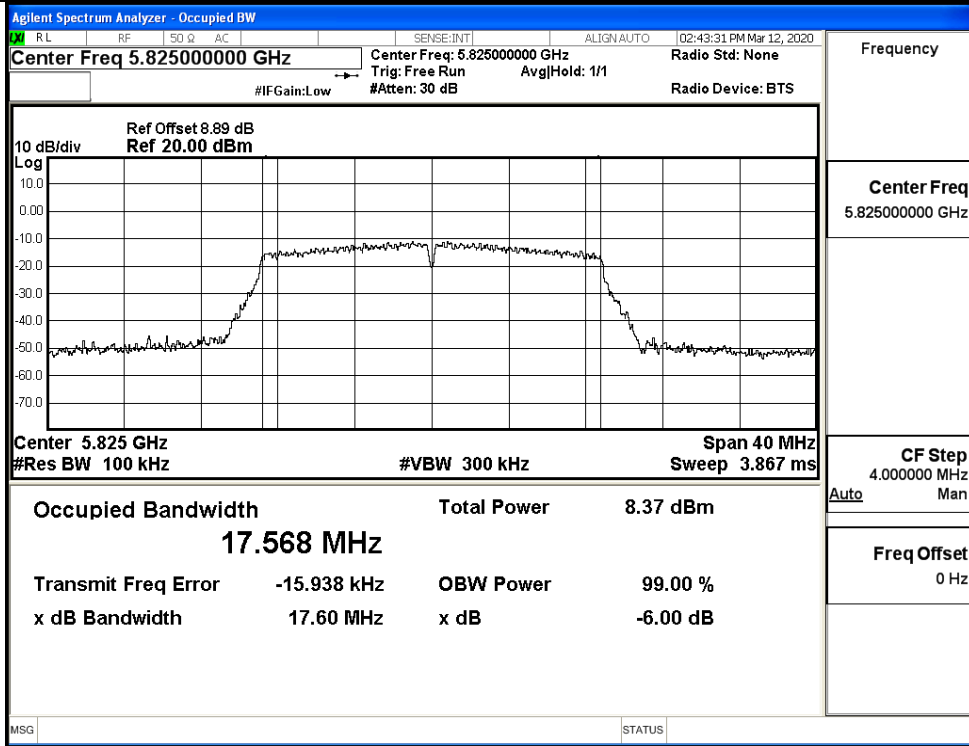


IEEE 802.11a / Channel 165 / 5825MHz

F.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	149	5745	17.58	>=0.5	Pass
	157	5785	17.67		Pass
	165	5825	17.60		Pass



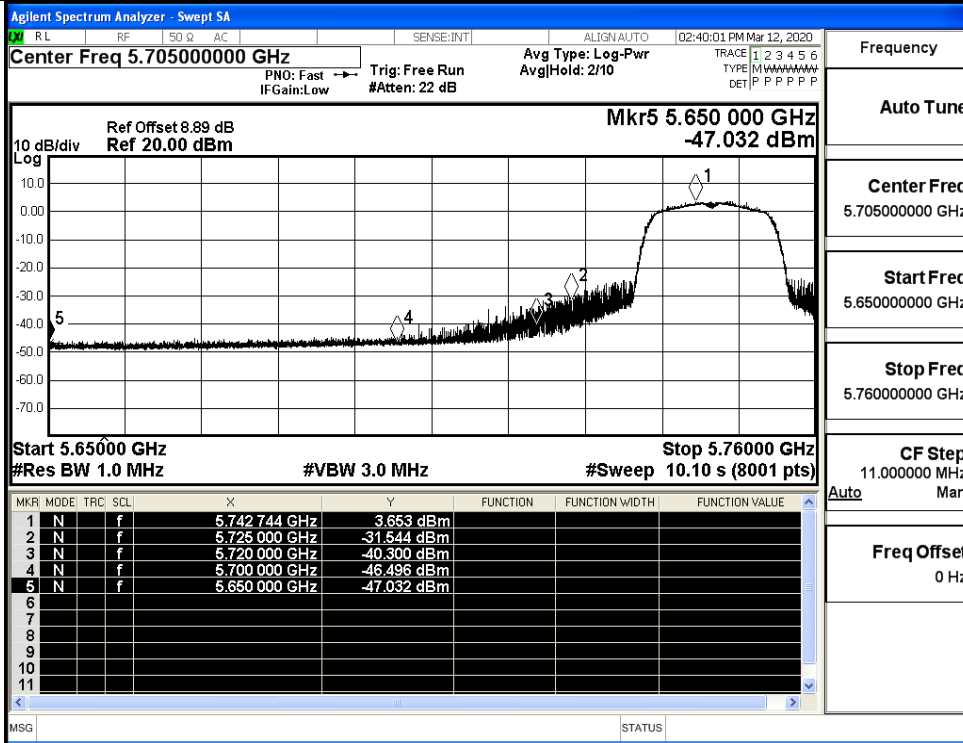


IEEE 802.11a / Channel 165 / 5825MHz

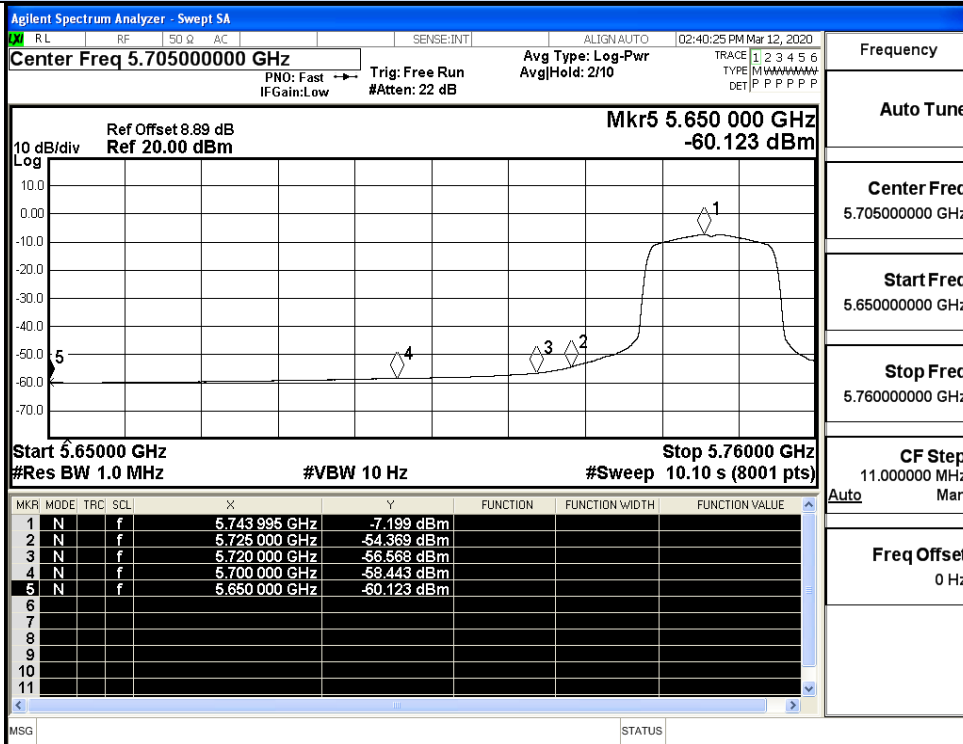
F.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11A	149	5650.0	-47.03	2.00	-45.03	Peak	-27.0	Pass
		5650.0	-60.12	2.00	-58.12	Average	-27.0	Pass
		5700.0	-46.50	2.00	-44.50	Peak	10	Pass
		5700.0	-58.44	2.00	-56.44	Average	10	Pass
		5720.0	-40.30	2.00	-38.30	Peak	15.6	Pass
		5720.0	-56.57	2.00	-54.57	Average	15.6	Pass
		5725.0	-31.54	2.00	-29.54	Peak	27.0	Pass
		5725.0	-54.37	2.00	-52.37	Average	27.0	Pass
	165	5850.0	-37.91	2.00	-35.91	Peak	27.0	Pass
		5850.0	-58.35	2.00	-56.35	Average	27.0	Pass
		5855.0	-45.45	2.00	-43.45	Peak	15.6	Pass
		5855.0	-58.73	2.00	-56.73	Average	15.6	Pass
		5875.0	-47.85	2.00	-45.85	Peak	10	Pass
		5875.0	-59.51	2.00	-57.51	Average	10	Pass
		5925.0	-48.98	2.00	-46.98	Peak	-27.0	Pass
		5925.0	-60.43	2.00	-58.43	Average	-27.0	Pass

Undesirable Emissions Measurement

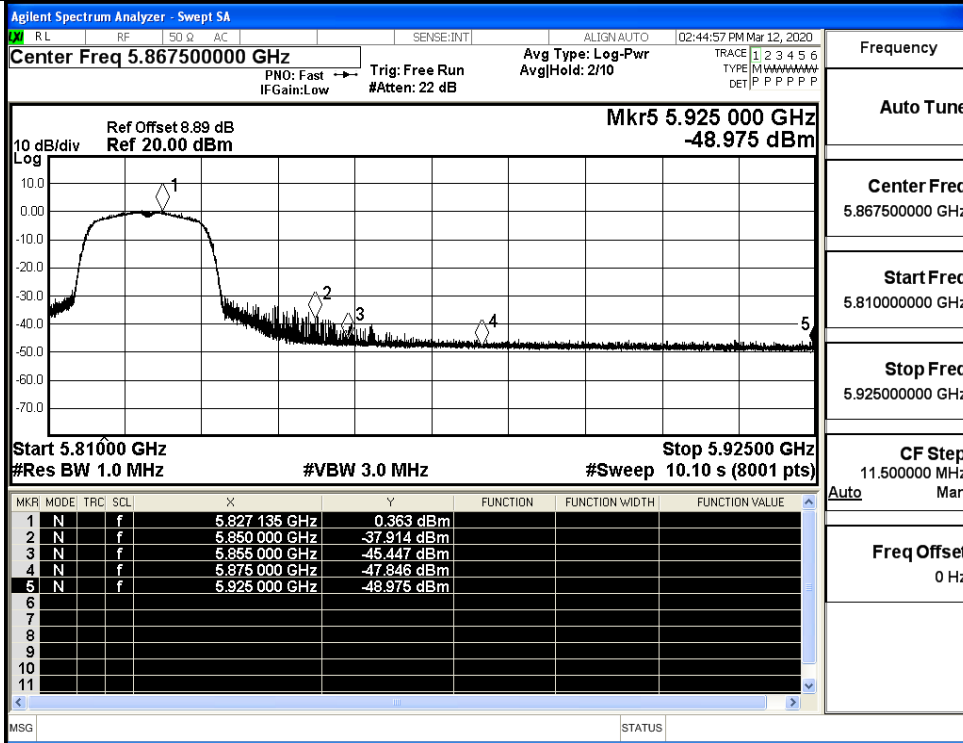


IEEE 802.11a / Channel 149 / 5745MHz / Peak

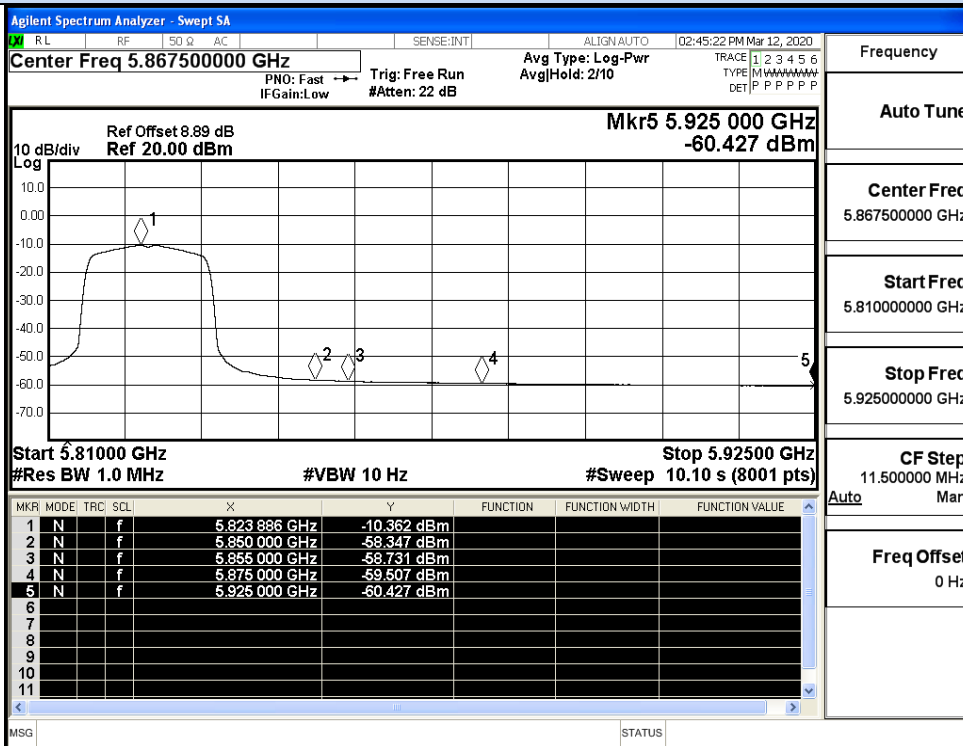


IEEE 802.11a / Channel 148 / 5745MHz / Average

Undesirable Emissions Measurement



IEEE 802.11a / Channel 165 / 5825MHz / Peak



IEEE 802.11a / Channel 165 / 5825MHz / Average