



Appendix C

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Mini Projector

Test Model: A1

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





C.1 Emission Bandwidth

Test Result

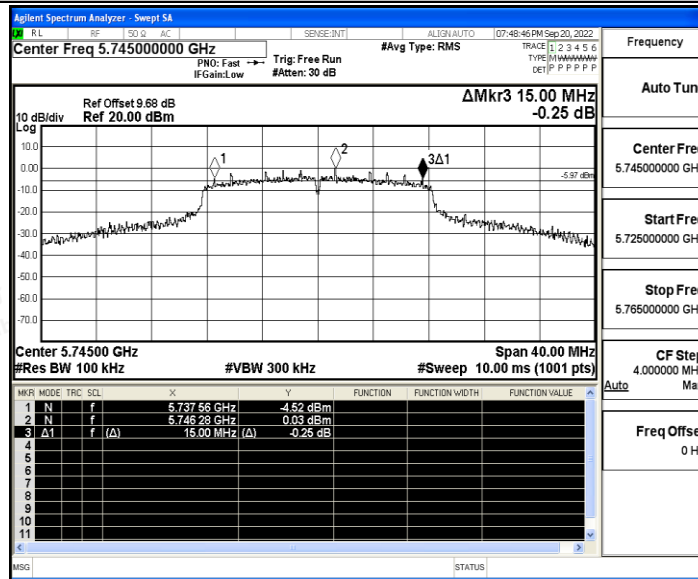
TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.000	5737.560	5752.560	0.5	PASS
		5785	13.160	5777.480	5790.640	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS



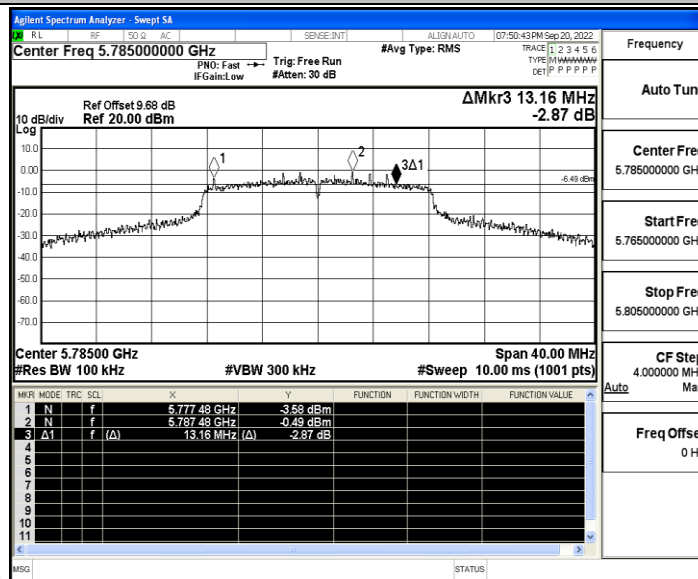


Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

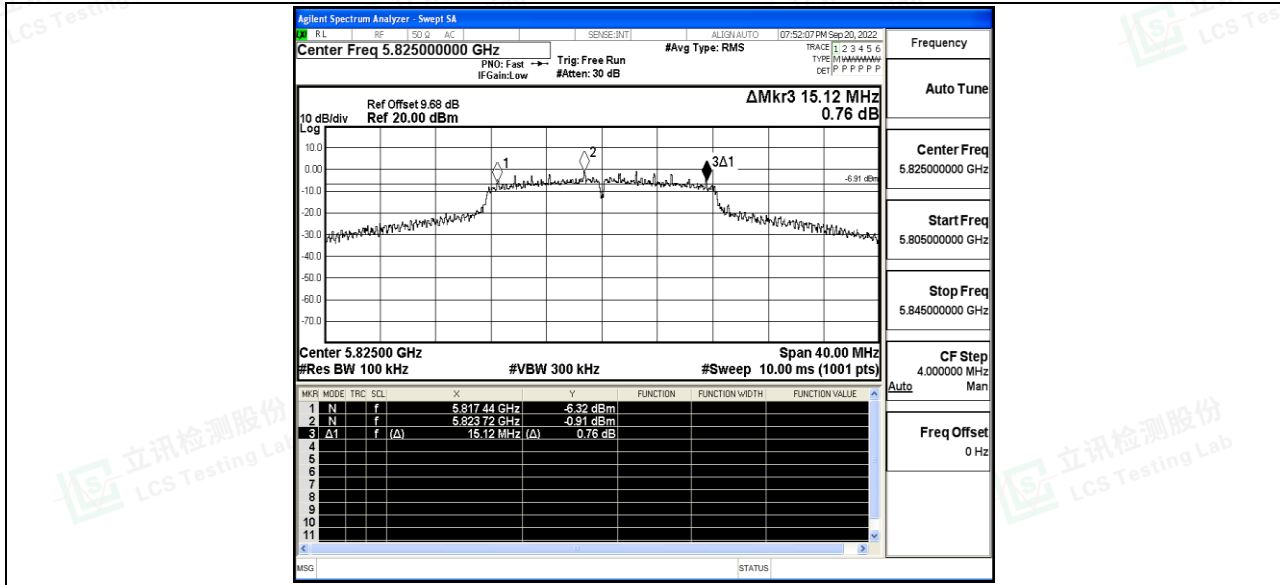


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C.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	9.68	96.55	0.15	9.83	≤30.00	PASS
		5785	9.35	96.53	0.15	9.50	≤30.00	PASS
		5825	9.14	96.55	0.15	9.29	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.





C.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.36	≤30.00	PASS
		5785	-3.61	≤30.00	PASS
		5825	-3.83	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

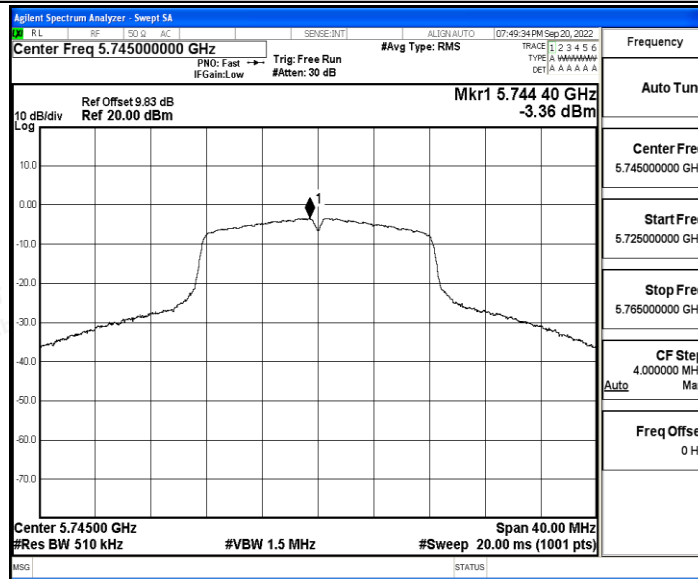
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.



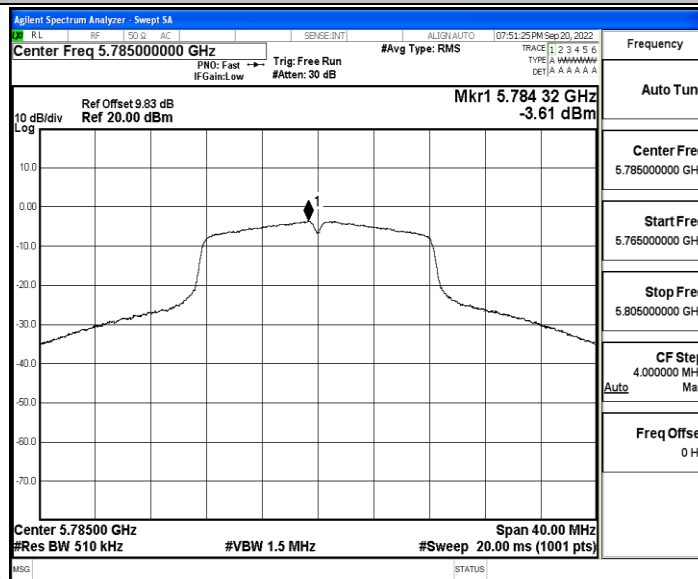


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

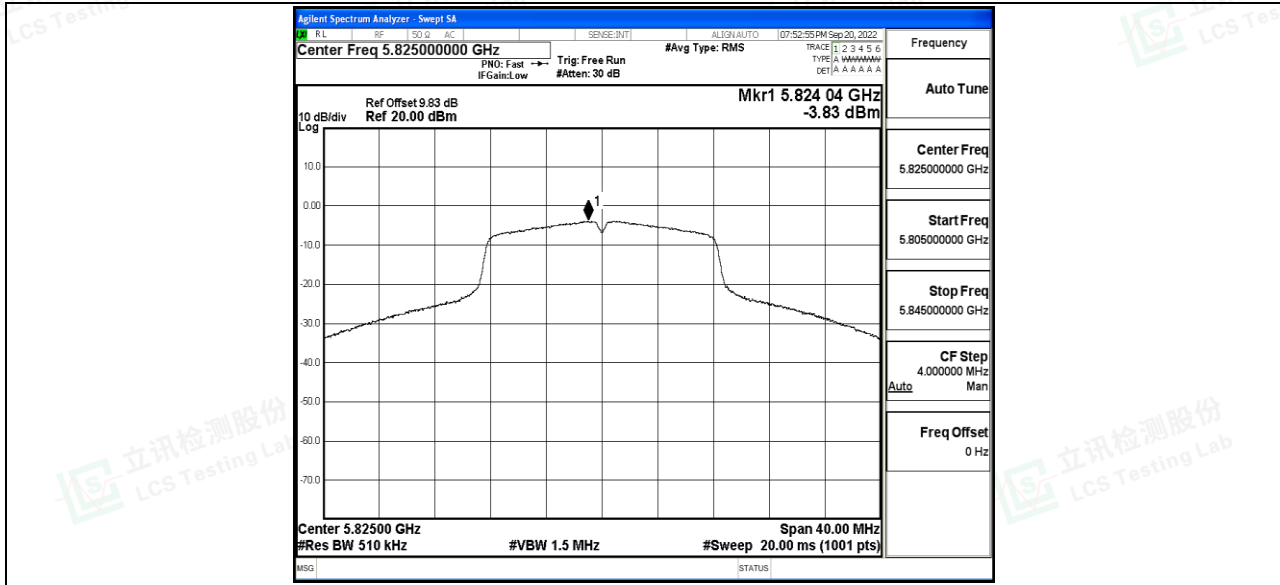


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C.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-43.377	≤-27.00	---	---	PASS
				Peak	5700.000	-39.13	≤10.00	---	---	PASS
				Peak	5720.000	-28.79	≤15.60	---	---	PASS
				Peak	5725.000	-27.11	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-28.318	≤15.60	---	---	PASS
				Peak	5855.000	-35.58	≤27.00	---	---	PASS
				Peak	5875.000	-36.91	≤15.60	---	---	PASS
				Peak	5925.000	-42.2	≤10.00	---	---	PASS

Note:

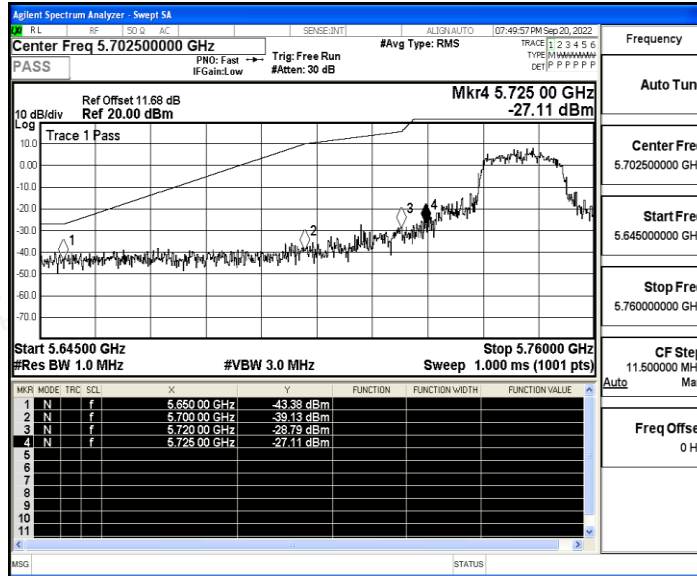
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



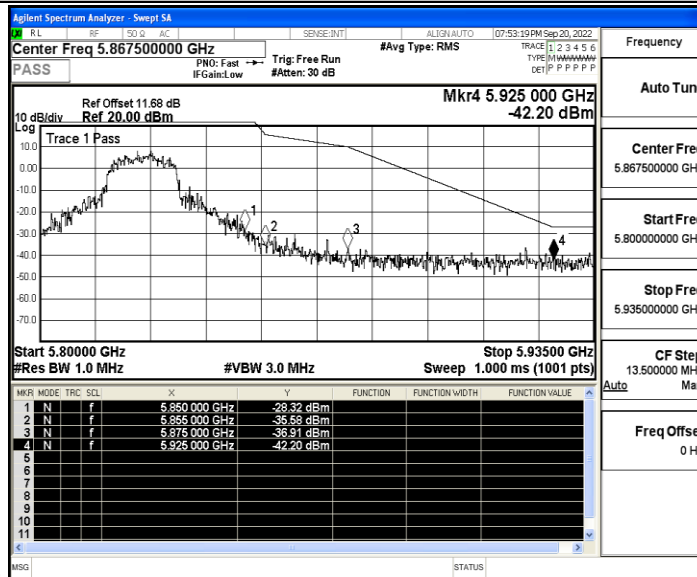


Test Graphs

11A_Ant1_Low_5745_Peak



11A_Ant1_High_5825_Peak



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C.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	NT	-1000.00	-0.174064	20	PASS
			LV	NT	-1000.00	-0.174064	20	PASS
			HV	NT	-1000.00	-0.174064	20	PASS
		5785	NV	NT	-2000.00	-0.345722	20	PASS
			LV	NT	-2000.00	-0.345722	20	PASS
			HV	NT	-2000.00	-0.345722	20	PASS
		5825	NV	NT	-3000.00	-0.515021	20	PASS
			LV	NT	-3000.00	-0.515021	20	PASS
			HV	NT	-3000.00	-0.515021	20	PASS

Temperature								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-30	-1000.00	-0.174064	20	PASS
			NV	-20	-1000.00	-0.174064	20	PASS
			NV	-10	-1000.00	-0.174064	20	PASS
			NV	0	-1000.00	-0.174064	20	PASS
			NV	10	-1000.00	-0.174064	20	PASS
			NV	20	-1000.00	-0.174064	20	PASS
			NV	30	-1000.00	-0.174064	20	PASS
			NV	40	-1000.00	-0.174064	20	PASS
		5785	NV	50	-1000.00	-0.174064	20	PASS
			NV	-30	-1000.00	-0.172861	20	PASS
			NV	-20	-2000.00	-0.345722	20	PASS
			NV	-10	-2000.00	-0.345722	20	PASS
			NV	0	-2000.00	-0.345722	20	PASS
			NV	10	-2000.00	-0.345722	20	PASS
			NV	20	-2000.00	-0.345722	20	PASS
			NV	30	-2000.00	-0.345722	20	PASS
		5825	NV	40	-2000.00	-0.345722	20	PASS
			NV	50	-3000.00	-0.518583	20	PASS
			NV	-30	-3000.00	-0.515021	20	PASS
			NV	-20	-3000.00	-0.515021	20	PASS
		5825	NV	-10	-3000.00	-0.515021	20	PASS
			NV	0	-4000.00	-0.686695	20	PASS
			NV					
			NV					



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			NV	10	-4000.00	-0.686695	20	PASS
			NV	20	-4000.00	-0.686695	20	PASS
			NV	30	-4000.00	-0.686695	20	PASS
			NV	40	-4000.00	-0.686695	20	PASS
			NV	50	-4000.00	-0.686695	20	PASS





C.6 Duty Cycle

Test Result

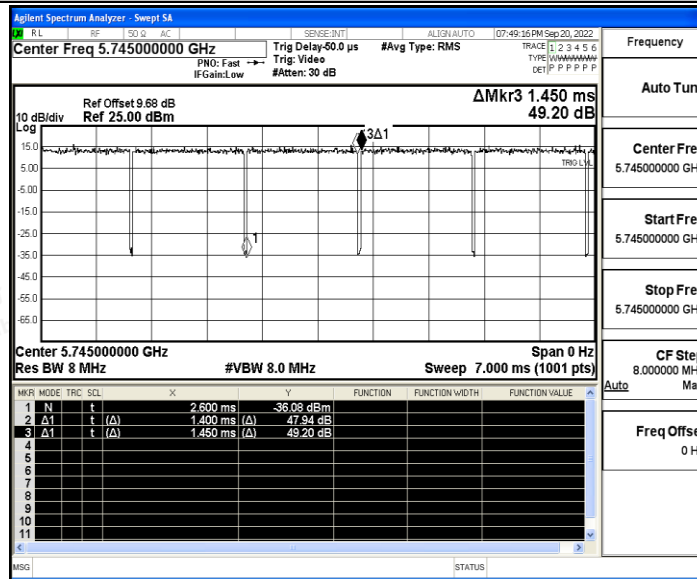
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	1/T
11A	Ant1	5745	1.40	1.45	96.55	0.15	0.71
		5785	1.39	1.44	96.53	0.15	0.72
		5825	1.40	1.45	96.55	0.15	0.71



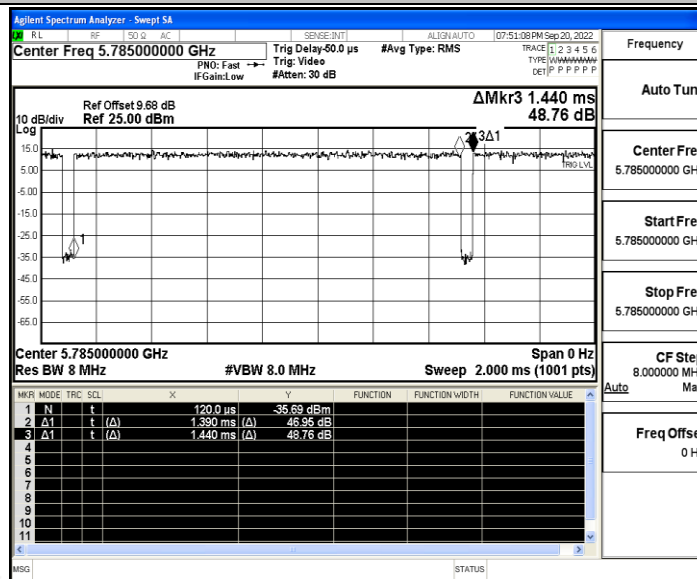


Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825

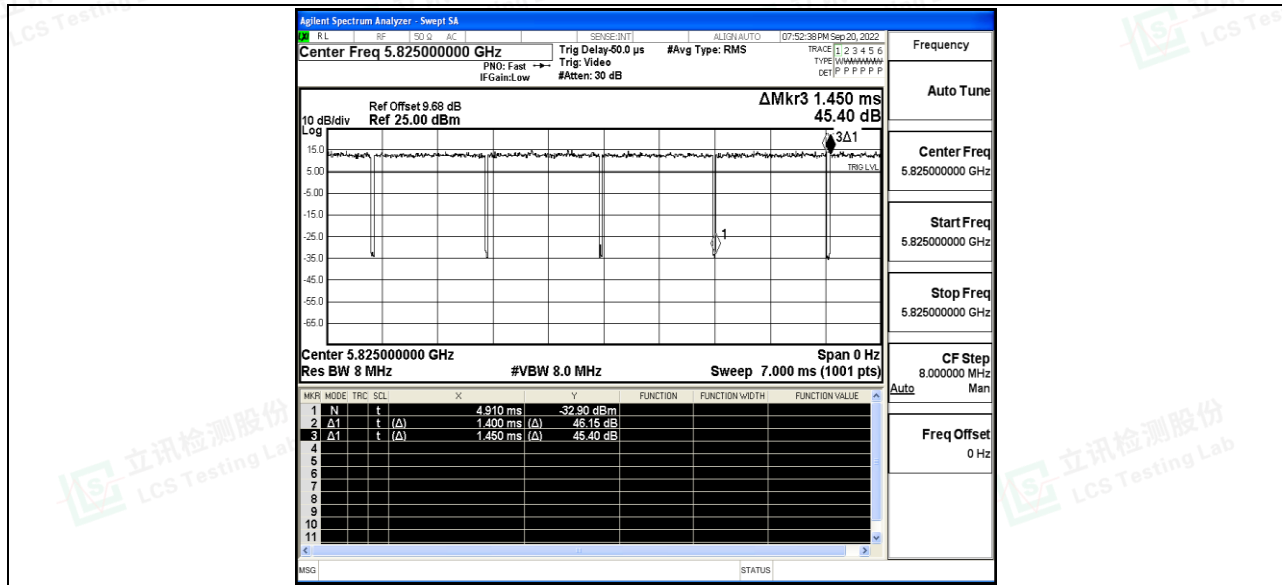


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