



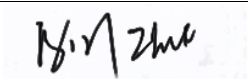
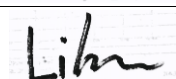
Appendix B

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Dash cam

Test Model: INNOVV K5

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	

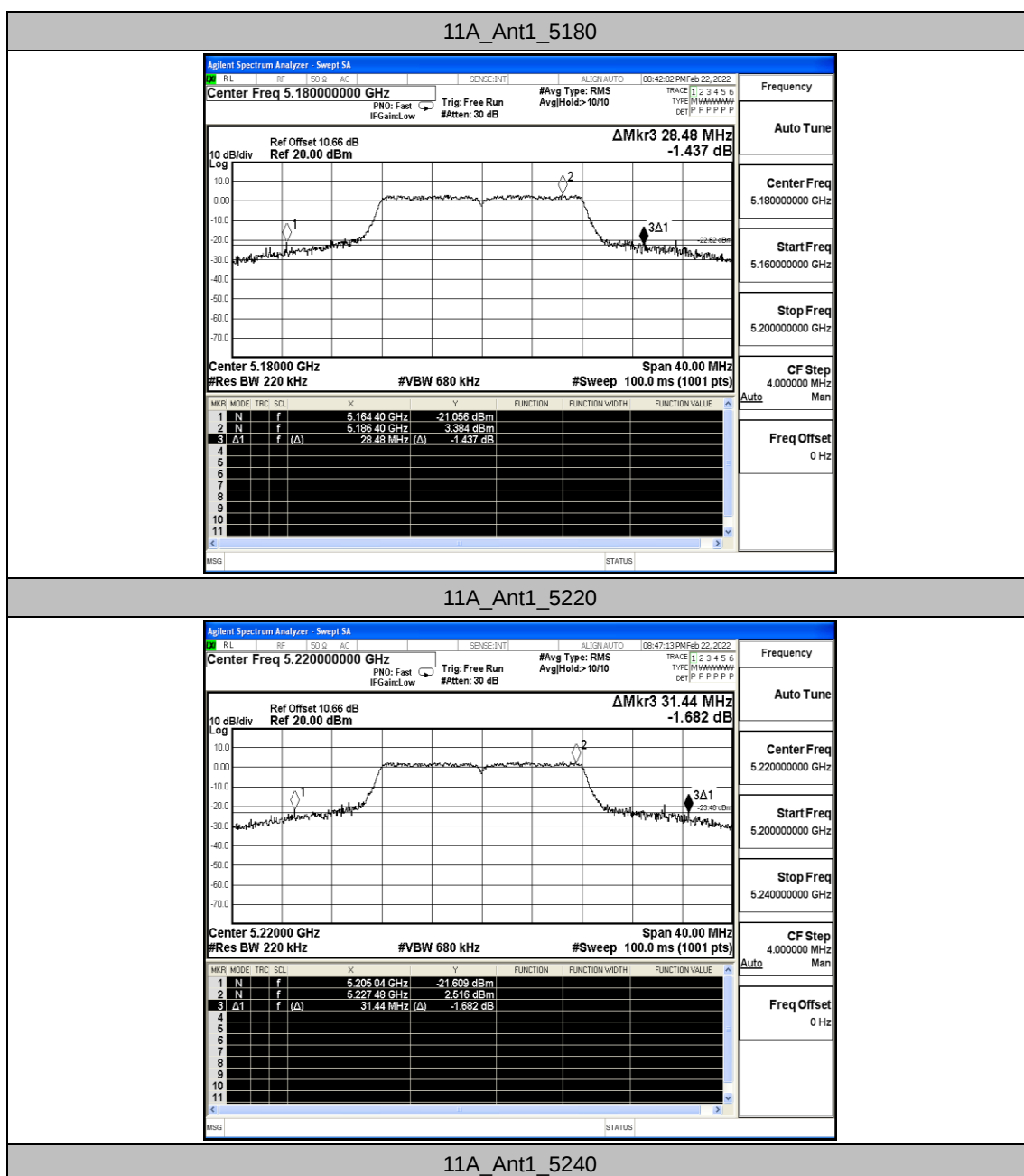


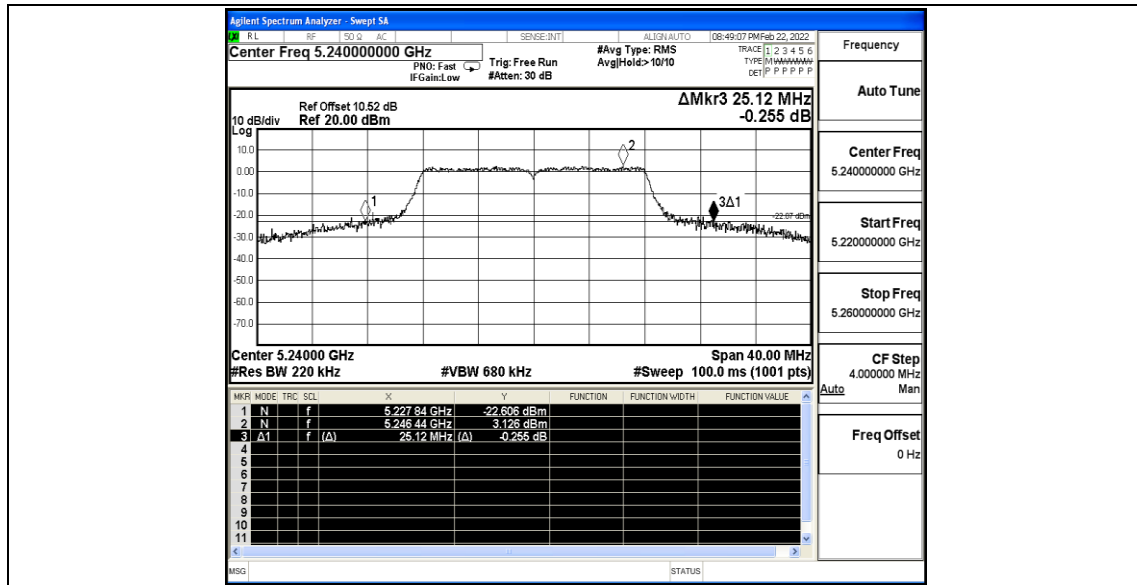
B.1 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	28.480	5164.400	5192.880	---	---
		5220	31.440	5205.040	5236.480	---	---
		5240	25.120	5227.840	5252.960	---	---

Test Graphs







B.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	12.95	≤23.98	PASS
		5220	12.95	≤23.98	PASS
		5240	12.76	≤23.98	PASS

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



B.3 Maximum power spectral density

Test Result

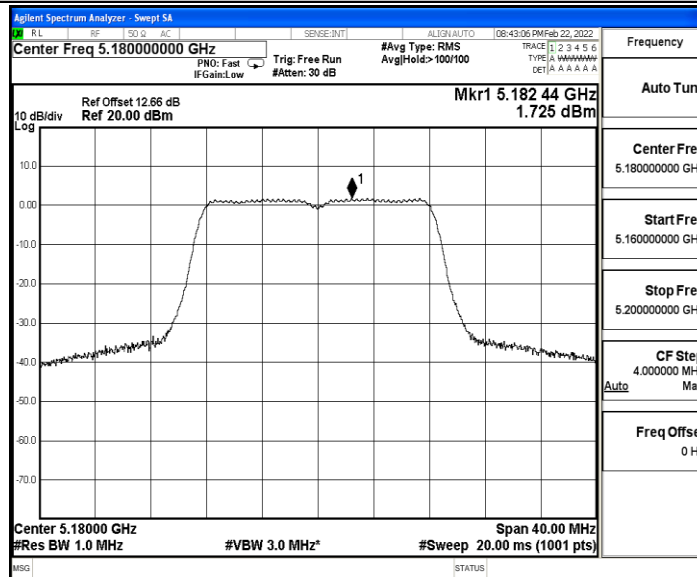
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.78	≤11.00	PASS
		5220	1.74	≤11.00	PASS
		5240	1.54	≤11.00	PASS

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

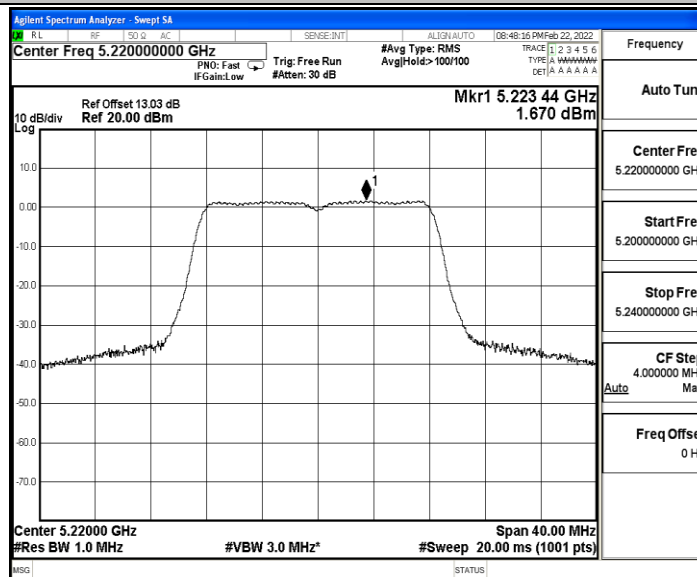


Test Graphs

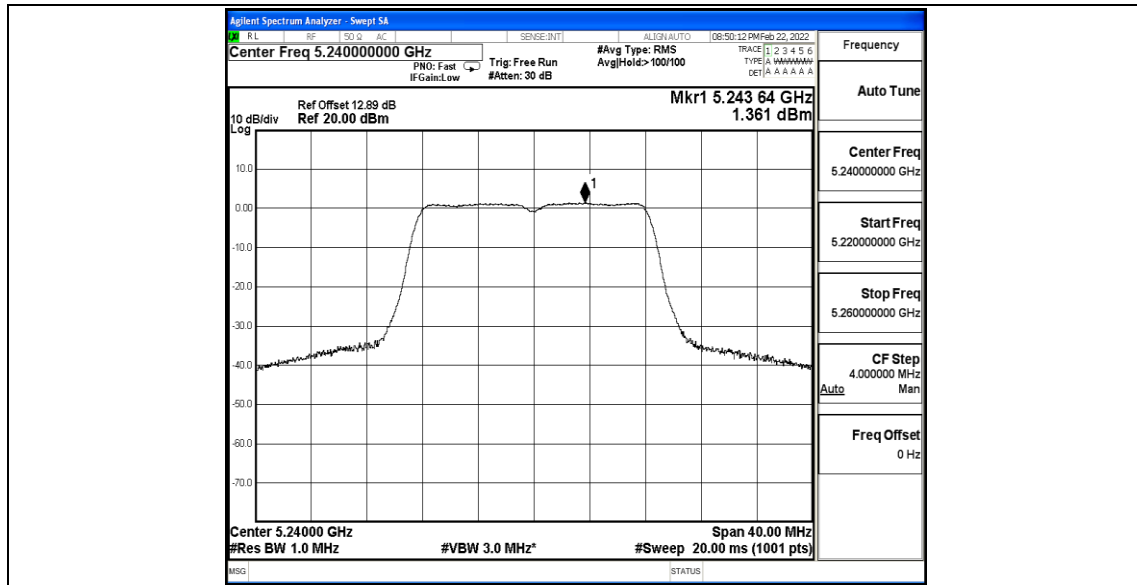
11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240





B.4 Emissions in Restricted Bands

Test Result

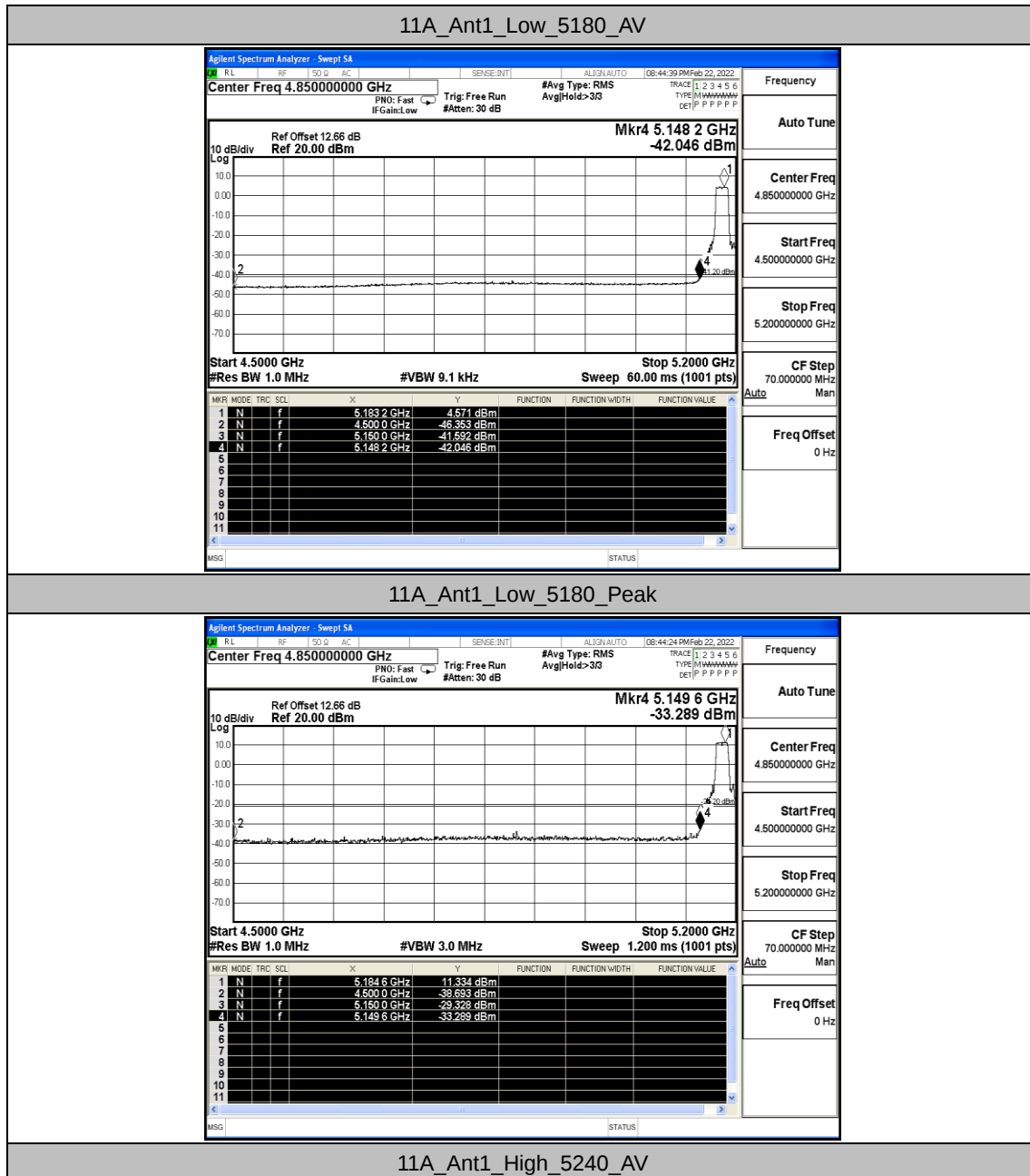
TestMode	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Low	5180	AV	4500.000	-46.46	≤-41.20	48.74	≤54	PASS
			AV	5148.200	-42.05	≤-41.20	53.15	≤54	PASS
			AV	5150.000	-41.59	≤-41.20	53.61	≤54	PASS
			Peak	4500.000	-38.69	≤-21.20	56.51	≤74	PASS
			Peak	5149.600	-33.29	≤-21.20	61.91	≤74	PASS
			Peak	5150.000	-29.33	≤-21.20	65.87	≤74	PASS
	High	5240	AV	5350.000	-45.36	≤-41.20	49.84	≤54	PASS
			AV	5371.440	-44.17	≤-41.20	51.03	≤54	PASS
			AV	5460.000	-45.09	≤-41.20	50.11	≤54	PASS
			Peak	5350.000	-37.79	≤-21.20	57.41	≤74	PASS
			Peak	5359.200	-35.44	≤-21.20	59.76	≤74	PASS
			Peak	5460.000	-37.69	≤-21.20	57.51	≤74	PASS

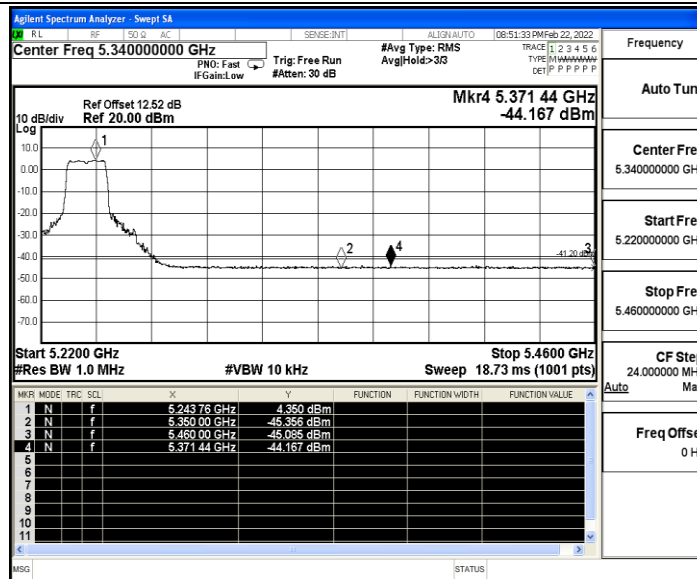
Note:

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.

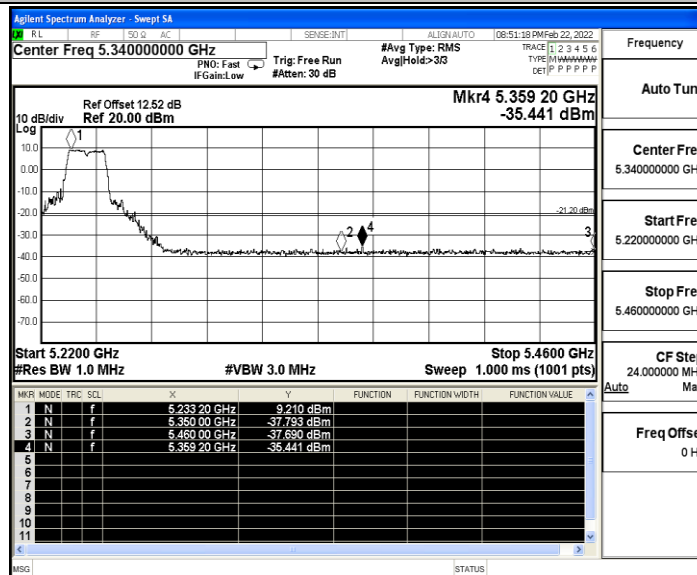


Test Graphs





11A_Ant1_High_5240_Peak





B.5 Frequency Stability

Test Result

IEEE 802.11a Mode / 5180 – 5240 MHz / 5180 MHz

Environment Temperature (Degree)	Voltage (V)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
20	DC 13.8V	5179.995	5150 – 5250	PASS
20	DC 10.2V	5179.998	5150 – 5250	PASS
50	DC 12V	5178.990	5150 – 5250	PASS
40	DC 12V	5179.994	5150 – 5250	PASS
30	DC 12V	5179.991	5150 – 5250	PASS
20	DC 12V	5179.996	5150 – 5250	PASS
10	DC 12V	5179.991	5150 – 5250	PASS
0	DC 12V	5179.991	5150 – 5250	PASS
-10	DC 12V	5179.994	5150 – 5250	PASS
-20	DC 12V	5179.995	5150 – 5250	PASS
-30	DC 12V	5179.991	5150 – 5250	PASS



B.6 Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	0.12	0.19	63.16	---	---
		5220	0.11	0.19	57.89	---	---
		5240	0.11	0.19	57.89	---	---

Test Graphs

