# Appendix B

# **RF Test Data for 5.8G WLAN (Conducted Measurement)**

Product Name: HD wireless video transmitter
Trade Mark: N/A
Test Model: 7072

#### **Environmental Conditions**

Temperature:	22.4 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

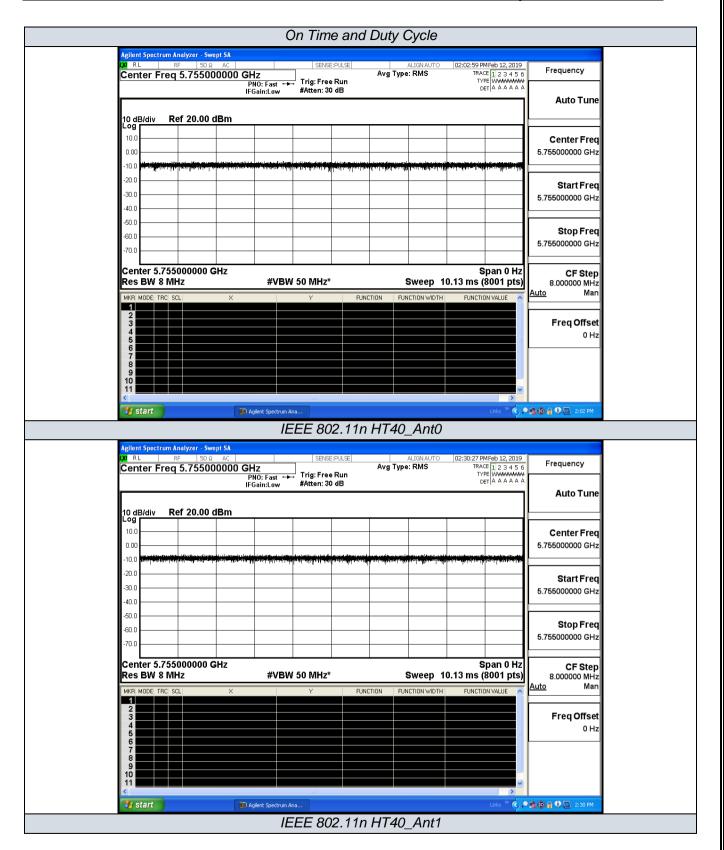
# **B.1 Duty Cycle**

#### Antenna 0

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW (KHz)
11N40 SISO	5755	100	0.00	0.01

#### Antenna 1

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW (KHz)
11N40 SISO	5755	100	0.00	0.01



# **B.2 Maximum Conduct Output Power**

## Antenna 0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
IEEE 802.11n HT40	151	5755	10.66	0	10.66	30
IEEE 002.1111 1140	159	5795	10.14	0	10.14	30

## Antenna 1

Test Mode			AVG	Duty	Report	
	Channel	Frequency	Conducted	Cycle	Conducted	Limit
		(MHz)	Power	Factor	Power	(dBm)
			(dBm)	(dB)	(dBm)	
IEEE 802.11n HT40	151	5755	10.86	0	10.86	30
IEEE 002.111111140	159	5795	10.07	0	10.07	30

#### Antenna 0+Antenna 1

Test Mode Ch	Channel	Frequency (MHz)	Duty Cycle Factor	Report Cor	Limit (dBm)		
		(1411 12)	(dB)	Ant0	Ant1	Sum	(GDIII)
11N40	151	5755	0	10.66	10.86	13.77	30
111140	159	5795	0	10.14	10.07	13.12	30

# **B.3 Power Spectral Density**

#### Antenna 0

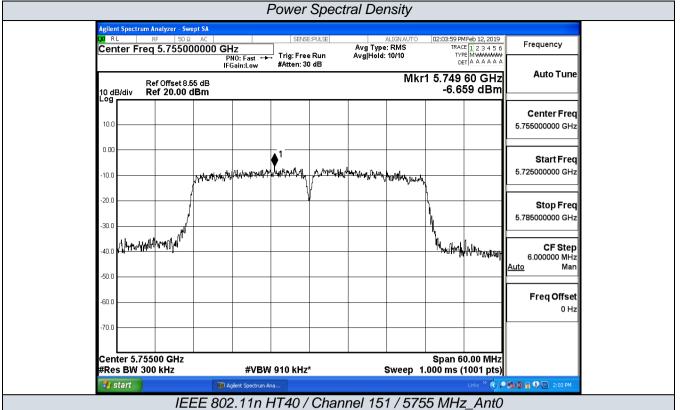
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/ 500KHz)
IEEE 802.11n HT40	151	5755	-6.659	0	2.218	-4.441	30.00
1666 002.111111140	159	5795	-7.024	0	2.218	-4.806	30.00

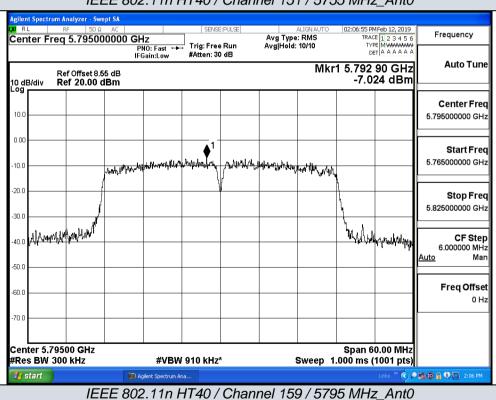
## Antenna 1

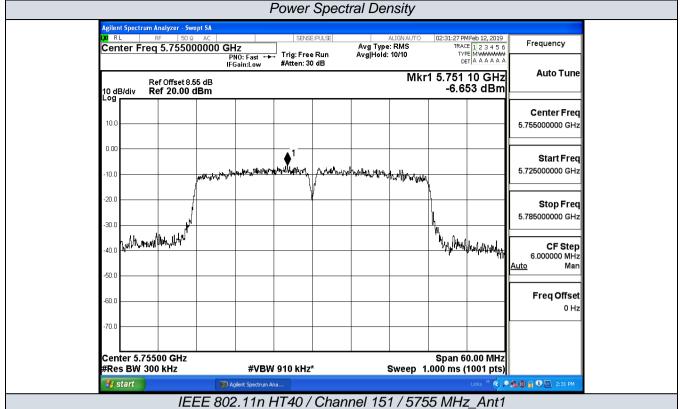
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/ 500KHz)
IEEE 802.11n HT4	151	5755	-6.653	0	2.218	-4.435	30.00
ILLL 002.11111114	159	5795	-7.153	0	2.218	-4.935	30.00

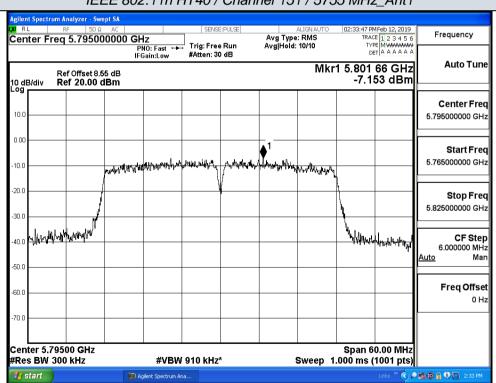
# Antenna 0+Antenna 1

Test Mode	Channel	Frequency	Duty Cycle	RBW Factor	•	ort Power De dBm/500KH	•	Limit (dBm/
T CST WIOGC	Onamici	(MHz)	Factor (dB)	(dB)	Ant0	Ant1	Sum	500KHz)
IEEE 802.11n	151	5755	0	2.218	-4.441	-4.435	-1.428	30.00
HT40	159	5795	0	2.218	-4.806	-4.935	-1.860	30.00









IEEE 802.11n HT40 / Channel 159 / 5795 MHz\_Ant1

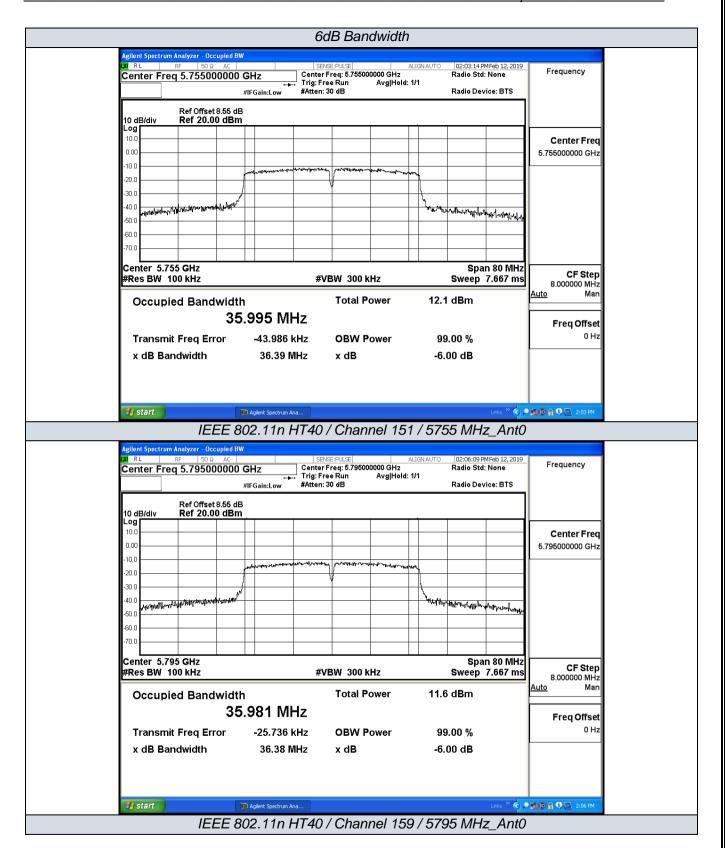
## **B.4 Emission Bandwidth**

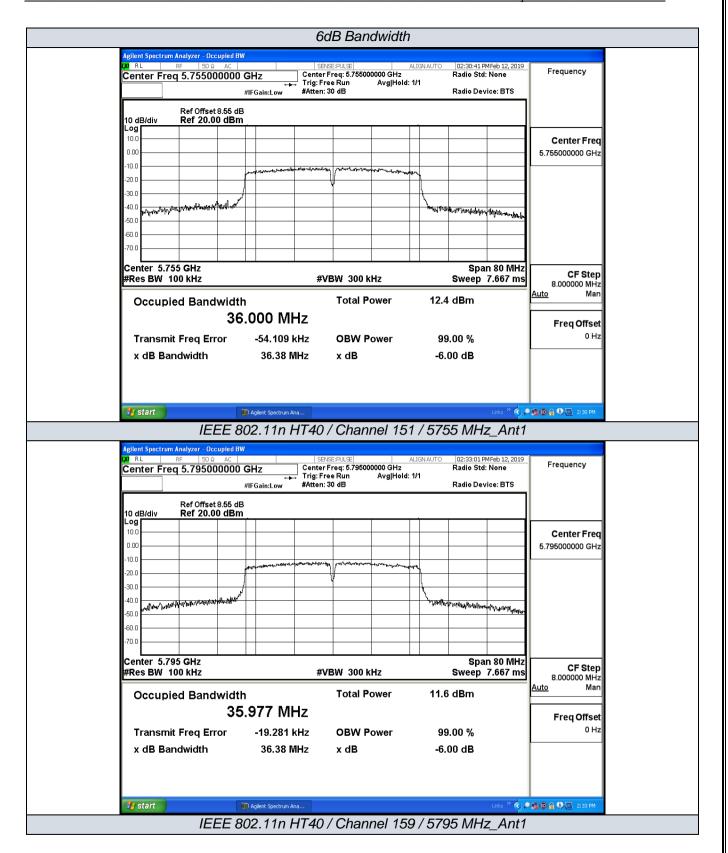
## Antenna 0

Test Mode	Test Mode Channel		6dB Bandwidth (MHz)	Limit (MHz)
IEEE 802.11n HT40	151	5755	36.390	>=0.5
1666 002.111111140	159	5795	36.380	/=0.5

# Antenna 1

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
IEEE 802.11n HT40	151	5755	36.380	>=0.5
1666 002.111111140	159	5795	36.380	/=0.5





## **B.5 Undesirable Emissions Measurement**

#### Antenna 0

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
		5650.0	-50.318	2.00	-48.318	Peak	-27.0
	151	5700.0	-48.672	2.00	-46.672	Peak	10.0
	131	5720.0	-39.862	2.00	-37.862	Peak	15.6
11N40		5725.0	-38.614	2.00	-36.614	Peak	27.0
SISO		5850.0	-48.880	2.00	-46.880	Peak	27.0
	159	5855.0	-49.620	2.00	-47.620	Peak	15.6
	159	5875.0	-49.427	2.00	-47.427	Peak	10.0
		5925.0	-49.743	2.00	-47.743	Peak	-27.0

## Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11N40 SISO	151	5650.0	-50.181	2.00	-48.181	Peak	-27.0
		5700.0	-48.300	2.00	-46.300	Peak	10.0
		5720.0	-39.370	2.00	-37.370	Peak	15.6
		5725.0	-39.187	2.00	-37.187	Peak	27.0
	159	5850.0	-48.873	2.00	-46.873	Peak	27.0
		5855.0	-49.251	2.00	-47.251	Peak	15.6
		5875.0	-49.950	2.00	-47.950	Peak	10.0
		5925.0	-50.116	2.00	-48.116	Peak	-27.0

# Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain	EIRP	Detector	Limit
			Ant0	Ant1	Sum	(dBi)	(dBm/MHz)	Detector	(dBm/MHz)
11N40 -	151	5650.0	-50.318	-50.181	-47.239	5.01	-42.229	Peak	27.0
		5700.0	-48.672	-48.300	-45.472	5.01	-40.462	Peak	15.6
		5720.0	-39.862	-39.370	-36.599	5.01	-31.589	Peak	10.0
		5725.0	-38.614	-39.187	-35.881	5.01	-30.871	Peak	-27.0
	159	5850.0	-48.880	-48.873	-45.866	5.01	-40.856	Peak	-27.0
		5855.0	-49.620	-49.251	-46.421	5.01	-41.411	Peak	10.0
		5875.0	-49.427	-49.950	-46.670	5.01	-41.660	Peak	15.6
		5925.0	-49.743	-50.116	-46.915	5.01	-41.905	Peak	27.0

