

Appendix E

Conducted RF Output Power

Measurement of RF conducted Power	
1	Conducted Power of WIFI
2	Conducted Power of Bluetooth

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1 Conducted Power of WIFI

WIFI 2.4G		Frequency(MHz)	Data Rate(Mbps)	ANT1	Tune up	ANT2	Tune up	MIMO	Tune up
Mode	Channel			Average Power (dBm)		Average Power (dBm)		Average Power (dBm)	
802.11b	1	2412	1	13.88	15.00	/	/	/	/
	6	2437		14.27	15.00	/	/	/	/
	11	2462		14.12	15.00	/	/	/	/
802.11g	1	2412	6	10.32	11.00	/	/	/	/
	6	2437		13.79	14.00	/	/	/	/
	11	2462		10.58	11.00	/	/	/	/
802.11n HT20	1	2412	6.5	8.24	10.00	10.51	11.00	12.53	13.00
	6	2437		10.33	11.00	9.80	11.00	13.08	14.00
	11	2462		9.63	10.00	5.75	7.00	11.12	12.00
802.11n HT40	3	2422	13.5	8.30	10.00	/	/	/	/
	6	2437		13.37	14.00	/	/	/	/
	9	2452		8.80	10.00	/	/	/	/

WIFI 5G		Channel	Frequency(MHz)	Data Rate(Mbps)	ANT1	Tune up	ANT2	Tune up	MIMO	Tune up
Mode	5GHz				Average Power (dBm)		Average Power (dBm)		Average Power (dBm)	
802.11a	U-NII-1	36	5180	6	12.48	13.00	/	/	/	/
		40	5200		11.58	13.00	/	/	/	/
		48	5240		11.59	13.00	/	/	/	/
	U-NII-2A	52	5260		8.48	9.00	/	/	/	/
		60	5300		7.94	9.00	/	/	/	/
		64	5320		8.34	9.00	/	/	/	/
	U-NII-2C	100	5500		7.01	9.00	/	/	/	/
		116	5580		8.53	9.00	/	/	/	/
		140	5700		7.03	9.00	/	/	/	/
	U-NII-3	149	5745		7.65	9.00	/	/	/	/
		157	5785		9.77	11.00	/	/	/	/
		165	5825		9.91	11.00	/	/	/	/
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n- HT20	U-NII-1	36	5180	MCS0	12.86	13.00	13.30	14.00	16.10	17.00
		40	5200		12.08	13.00	12.79	13.00	15.46	16.00
		48	5240		11.89	13.00	13.10	14.00	15.55	16.00
	U-NII-2A	52	5260		9.73	10.00	10.19	11.00	12.98	14.00
		60	5300		8.77	10.00	10.95	11.00	13.01	14.00
		64	5320		9.12	10.00	11.21	12.00	13.30	14.00
	U-NII-2C	100	5500		8.39	10.00	9.69	10.00	12.10	13.00
		116	5580		9.50	10.00	6.78	7.00	11.36	12.00
		140	5700		7.43	9.00	4.27	5.00	9.14	10.00
	U-NII-3	149	5745		7.88	9.00	6.06	7.00	10.07	11.00
		157	5785		9.71	11.00	8.46	9.00	12.14	13.00
		165	5825		9.85	11.00	8.87	9.00	12.40	13.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up



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802.11n- HT40	U-NII-1	38	5190	MCS0	9.10	10.00	8.39	9.00	11.77	13.00
		46	5230		12.51	13.00	11.64	12.00	15.11	16.00
	U-NII-2A	54	5270		11.65	13.00	11.30	12.00	14.49	15.00
		62	5310		7.77	9.00	8.77	9.00	11.31	12.00
	U-NII-2C	102	5510		6.82	8.00	6.84	8.00	9.84	11.00
		110	5550		8.70	10.00	7.49	8.00	11.15	12.00
		134	5670		8.10	10.00	5.83	6.00	10.12	11.00
	U-NII-3	151	5755		6.19	8.00	4.15	6.00	8.30	9.00
		159	5795		9.60	11.00	8.16	9.00	11.95	13.00



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2 Conducted Power of Bluetooth

BT ANT1		Average Conducted Power(dBm)			
Band	Channel	0	39	78	Tune up
BT	GFSK	6.62	6.79	6.83	7.00
	$\pi/4$ DQPSK	3.37	3.57	3.74	4.00
	8DPSK	4.01	4.19	4.33	5.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	-1.25	-1.08	-0.95	0.00