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Appendix E

Conducted RF Output Power



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1 Conducted Power of WIFI and Bluetooth

1.1 Conducted Power of 2.4G WIFI

WIFI 2.4G					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	15.52	17.00
	6	2437		15.82	17.00
	11	2462		15.66	17.00
802.11g	1	2412	6	14.27	15.50
	6	2437		14.38	15.50
	11	2462		14.50	15.50
802.11n HT20	1	2412	6.5	14.38	15.50
	6	2437		14.32	15.50
	11	2462		14.18	15.50
802.11n HT40	3	2422	13.5	13.29	14.50
	6	2437		14.01	15.50
	9	2452		13.65	15.00
802.11ac VHT20	1	2412	MCS0	14.29	15.50
	6	2437		13.89	15.00
	11	2462		14.44	15.50
802.11ac VHT40	3	2422	MCS0	13.24	14.50
	6	2437		12.71	14.00
	9	2452		13.74	15.00
802.11ax HE20	1	2412	MCS0	14.44	15.50
	6	2437		13.78	15.00
	11	2462		14.45	15.50
802.11ax HE40	3	2422	MCS0	13.23	14.50
	6	2437		13.49	14.50
	9	2452		13.64	15.00

1.2 Conducted Power of 5G WIFI

WIFI 5G					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	14.74	16.00
		40	5200	14.83	16.00
		48	5240	14.75	16.00
	802.11n HT20	36	5180	14.02	15.50
		40	5200	13.60	15.00
		48	5240	13.41	14.50
	802.11n HT40	38	5190	13.99	15.00
		46	5230	14.19	15.50
	802.11ac VHT20	36	5180	14.14	15.50
		40	5200	13.73	15.00
		48	5240	13.58	15.00
	802.11ac VHT40	38	5190	14.32	15.50
		46	5230	14.31	15.50
	802.11ac VHT80	42	5210	14.32	15.50
	802.11ax HE20	36	5180	14.10	15.50
		40	5200	13.70	15.00
		48	5240	13.44	14.50
	802.11ax HE40	38	5190	14.15	15.50
		46	5230	13.80	15.00
	802.11ax HE80	42	5210	14.30	15.50
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	15.02	16.50
		60	5300	15.28	16.50
		64	5320	15.19	16.50
	802.11n HT20	52	5260	14.45	15.50
		56	5280	13.67	15.00
		64	5320	14.18	15.50
	802.11n HT40	54	5270	14.19	15.50
		62	5310	14.22	15.50
	802.11ac VHT20	52	5260	14.90	16.00
		60	5300	13.86	15.00
		64	5320	14.55	16.00
	802.11ac VHT40	54	5270	14.63	16.00
		62	5310	14.06	15.50
	802.11ac VHT80	58	5290	13.35	14.50
	802.11ac VHT160	50	5250	12.85	14.00
	802.11ax HE20	52	5260	13.19	14.50
		60	5300	13.75	15.00
		64	5320	14.17	15.50
	802.11ax HE40	54	5270	14.65	16.00
		62	5310	13.95	15.00
	802.11ax HE80	58	5290	13.24	14.50
	802.11ax HE160	50	5250	12.84	14.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up

5GHz UNII-2C	802.11a	100	5500	15.01	16.50
		116	5580	15.29	16.50
		140	5700	15.12	16.50
	802.11n HT20	100	5500	14.47	15.50
		116	5580	14.54	16.00
		140	5700	14.21	15.50
	802.11n HT40	102	5510	14.45	15.50
		110	5550	14.43	15.50
		134	5670	14.43	15.50
	802.11ac VHT20	100	5500	14.65	16.00
		116	5580	14.48	15.50
		140	5700	14.21	15.50
	802.11ac VHT40	102	5510	14.48	15.50
		110	5550	14.56	16.00
		134	5670	14.58	16.00
	802.11ac VHT80	106	5530	14.11	15.50
		138	5690	14.30	15.50
	802.11ac VHT160	114	5570	13.86	15.00
	802.11ax HE20	100	5500	14.44	15.50
		116	5580	14.59	16.00
		140	5700	14.51	16.00
	802.11ax HE40	102	5510	13.37	14.50
		110	5550	14.40	15.50
		134	5670	14.56	16.00
	802.11ax HE80	106	5530	14.14	15.50
		138	5690	14.53	16.00
	802.11ax HE160	114	5570	13.86	15.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	11.14	12.50
		157	5785	10.63	12.00
		165	5825	11.13	12.50
	802.11n HT20	149	5745	11.09	12.50
		157	5785	11.23	12.50
		165	5825	11.14	12.50
	802.11n HT40	151	5755	10.88	12.00
		159	5795	11.01	12.50
	802.11ac VHT20	149	5745	11.46	12.50
		157	5785	11.11	12.50
		165	5825	11.50	12.50
	802.11ac VHT40	151	5755	10.76	12.00
		159	5795	11.28	12.50
	802.11ac VHT80	155	5775	11.82	13.00
	802.11ax HE20	149	5745	11.44	12.50
		157	5785	11.38	12.50
		165	5825	11.40	12.50
	802.11ax HE40	151	5755	10.15	11.50
		159	5795	11.17	12.50
	802.11ax HE80	155	5775	11.37	12.50

1.3 Conducted Power of Bluetooth

BT		Average Conducted Power(dBm)			Tune up
Band	Channel	0	39	78	
BT	GFSK	5.16	5.21	5.18	6.50
	$\pi/4$ DQPSK	4.77	4.83	4.58	6.00
	8DPSK	4.69	4.65	4.60	6.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	4.78	4.46	4.25	5.50
BLE 2M	GFSK	4.69	4.52	4.22	6.00

- End of the Appendix -