



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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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 MIMO							
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11b	1	2412	1	16.89	16.49	19.70	21.00
	6	2437		16.21	16.07	19.15	20.50
	11	2462		16.45	16.70	19.59	21.00
	12	2467		16.42	16.81	19.63	21.00
	13	2472		16.35	16.73	19.55	21.00
802.11g	1	2412	6	16.05	17.15	19.65	21.00
	6	2437		16.53	16.3	19.43	21.00
	11	2462		16.16	17.01	19.62	21.00
	12	2467		13.93	14.56	17.27	18.50
	13	2472		11.37	11.73	14.56	16.00
802.11ac VHT20	1	2412	MCS0	16.02	17.44	19.80	21.00
	6	2437		16.04	16.60	19.34	21.00
	11	2462		16.44	16.82	19.64	21.00
	12	2467		13.90	14.54	17.24	18.50
	13	2472		9.11	9.69	12.42	13.50
802.11ac VHT40	3	2422	MCS0	14.15	15.05	17.63	19.00
	6	2437		16.11	17.12	19.65	21.00
	9	2452		14.56	14.62	17.60	19.00
	10	2457		12.47	12.64	15.57	17.00
	11	2462		9.63	10.00	12.83	14.00
802.11ax HE20	1	2412	MCS0	16.18	17.31	19.79	21.00
	6	2437		16.36	17.08	19.75	21.00
	11	2462		16.54	17.27	19.93	21.00
	12	2467		13.89	14.58	17.26	18.50
	13	2472		9.90	10.13	13.03	14.50
802.11ax HE40	3	2422	MCS0	14.60	15.38	18.02	19.50
	6	2437		16.20	17.02	19.64	21.00
	9	2452		15.04	15.30	18.18	19.50
	10	2457		12.52	12.69	15.62	17.00
	11	2462		10.33	10.58	13.47	14.50

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WIFI 5G MIMO								
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11a	U-NII-1	36	5180	6	19.63	17.73	21.79	22.50
		40	5200		19.72	17.67	21.83	22.50
		48	5240		19.52	17.89	21.79	22.50
	U-NII-2A	52	5260		19.42	17.97	21.77	22.50
		60	5300		19.51	17.89	21.79	22.50
		64	5320		19.22	18.05	21.68	22.50
	U-NII-2C	100	5500		18.70	18.65	21.69	22.50
		116	5580		18.81	18.74	21.79	22.50
		140	5700		18.52	18.60	21.57	22.50
	U-NII-3	149	5745		20.08	20.38	23.24	24.50
		157	5785		20.00	20.63	23.34	24.50
		165	5825		19.59	20.69	23.19	24.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac 20M	U-NII-1	36	5180	MCS0	19.27	17.44	21.46	22.50
		40	5200		19.31	17.87	21.66	22.50
		48	5240		19.22	18.63	21.95	22.50
	U-NII-2A	52	5260		19.56	18.01	21.86	22.50
		60	5300		19.73	18.03	21.97	22.50
		64	5320		19.42	18.27	21.89	22.50
	U-NII-2C	100	5500		18.17	18.03	21.11	22.50
		116	5580		18.51	18.45	21.49	22.50
		140	5700		15.63	15.65	18.65	20.00
	U-NII-3	149	5745		19.72	19.95	22.85	24.00
		157	5785		19.22	19.86	22.56	24.00
		165	5825		18.70	19.60	22.18	23.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac 40M	U-NII-1	38	5190	MCS0	17.97	15.78	20.02	21.50
		46	5230		18.11	18.37	21.25	22.00
	U-NII-2A	54	5270		18.03	18.14	21.10	22.00
		62	5310		17.14	15.15	19.27	20.50
	U-NII-2C	102	5510		16.78	16.25	19.53	21.00
		110	5550		17.36	19.11	21.33	22.00
		134	5670		18.44	17.37	20.95	22.00
	U-NII-3	151	5755		19.35	19.24	22.31	23.50
		159	5795		19.20	19.71	22.47	23.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac 80M	U-NII-1	42	5210	MCS0	14.74	12.61	16.81	18.00
	U-NII-2A	58	5290		15.57	13.62	17.71	19.00
	U-NII-2C	106	5530		16.52	15.51	19.05	20.50
		122	5610		18.30	17.28	20.83	22.00
		138	5690		18.13	18.50	21.33	22.00
	U-NII-3	155	5775		17.88	17.77	20.84	22.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up



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802.11ac 160M	U-NII-2A	50	5250	MCS0	14.67	12.94	16.90	18.00
	U-NII-2C	114	5570		13.32	12.37	15.88	17.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax-20	U-NII-1	36	5180	MCS0	19.19	17.42	21.40	22.50
		40	5200		19.45	18.37	21.95	22.50
		48	5240		19.23	18.25	21.78	22.50
	U-NII-2A	52	5260		19.23	18.68	21.97	22.50
		60	5300		19.26	18.44	21.88	22.50
		64	5320		19.21	18.38	21.83	22.50
	U-NII-2C	100	5500		18.63	18.23	21.44	22.50
		116	5580		18.43	18.63	21.54	22.50
		140	5700		16.34	15.76	19.07	20.50
	U-NII-3	149	5745		19.48	19.53	22.52	24.00
		157	5785		19.63	19.93	22.79	24.00
		165	5825		19.22	19.91	22.59	24.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax-40	U-NII-1	38	5190	MCS0	18.02	15.73	20.03	21.50
		46	5230		19.27	17.97	21.68	22.00
	U-NII-2A	54	5270		19.03	18.03	21.57	22.00
		62	5310		17.15	15.11	19.26	20.50
	U-NII-2C	102	5510		16.46	16.01	19.25	20.50
		110	5550		18.22	17.65	20.95	22.00
		134	5670		18.26	17.17	20.76	22.00
	U-NII-3	151	5755		19.28	19.14	22.22	23.50
		159	5795		18.78	19.50	22.17	23.50
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax 80M	U-NII-1	42	5210	MCS0	14.90	12.85	17.01	18.50
	U-NII-2A	58	5290		16.00	13.97	18.11	19.50
	U-NII-2C	106	5530		16.74	15.58	19.21	20.50
		122	5610		17.89	17.56	20.74	22.00
		138	5690		17.92	17.68	20.81	22.00
	U-NII-3	155	5775		17.50	17.62	20.57	22.00
5GHz	mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax 160M	U-NII-2A	50	5250	MCS0	14.60	12.73	16.78	18.00
	U-NII-2C	114	5570		13.56	12.23	15.96	17.00



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Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	7.38	8.50
		45	6175		8.83	10.00
		93	6415		8.27	9.50
	802.11ax HE160	15	6025	MCS0	14.32	15.50
		47	6185		14.27	15.50
		79	6345		14.14	15.50
U - NII - 6 6.5GHz	802.11a	97	6435	6Mbps	9.73	11.00
		105	6475		9.72	11.00
		113	6515		9.34	10.50
	802.11ax HE160	111	6505	MCS0	15.07	16.50
U - NII - 7 6.7GHz	802.11a	117	6535	6Mbps	9.93	11.00
		153	6715		10.21	11.50
		181	6855		10.56	12.00
	802.11ax HE160	143	6665	MCS0	15.43	16.50
		175	6825		16.48	17.50
		185	6875		10.49	11.50
U - NII - 8 7.0GHz	802.11a	213	7015	6Mbps	10.61	12.00
		233	7115		10.52	12.00
		207	6985	MCS0	15.96	17.00
	802.11ax HE160					

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WIFI 6E MIMO								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
U - NII - 5 6.2GHz	802.11a	1	5955	6Mbps	2.36	2.19	5.29	6.50
		45	6175		2.63	2.07	5.37	6.50
		93	6415		1.62	2.53	5.11	6.50
	802.11ax HE20	1	5955	MCS0	3.17	3.05	6.12	7.50
		45	6175		2.79	3.33	6.08	7.50
		93	6415		2.69	3.37	6.05	7.50
	802.11ax HE40	3	5985	MCS0	4.50	4.59	7.56	9.00
		43	6165		5.13	4.99	8.07	9.50
		91	6405		4.32	6.33	8.45	9.50
	802.11ax HE80	7	5985	MCS0	6.99	7.75	10.40	11.50
		39	6145		7.67	7.66	10.68	12.00
		87	6385		7.24	8.82	11.11	12.50
	802.11ax HE160	15	6025	MCS0	10.74	11.21	13.99	15.00
		47	6185		10.51	11.06	13.80	15.00
		79	6345		10.48	11.02	13.77	15.00
U - NII - 6 6.5GHz	802.11a	97	6435	6Mbps	4.28	5.78	8.10	9.50
		105	6475		3.67	5.87	7.92	9.00
		113	6515		4.09	5.67	7.96	9.00
	802.11ax HE20	97	6435	MCS0	4.62	6.24	8.52	10.00
		105	6475		4.21	6.19	8.32	9.50
		113	6515		4.93	6.78	8.96	10.00
	802.11ax HE40	99	6445	MCS0	6.24	7.88	10.15	11.50
		107	6485		5.65	8.38	10.24	11.50
	802.11ax HE80	103	6465	MCS0	9.68	11.77	13.86	15.00
		119	6545		10.91	10.77	13.85	15.00
	802.11ax HE160	111	6505	MCS0	12.95	13.34	16.16	17.50
U - NII - 7 6.7GHz	802.11a	117	6535	6Mbps	2.87	5.45	7.36	8.50
		153	6715		4.15	4.36	7.27	8.50
		181	6855		3.87	4.53	7.22	8.50
	802.11ax HE20	117	6535	MCS0	3.75	5.88	7.95	9.00
		153	6715		3.18	3.04	6.12	7.50
		181	6855		4.19	5.06	7.66	9.00
	802.11ax HE40	115	6525	MCS0	7.75	7.14	10.47	11.50
		123	6565		5.76	7.94	10.00	11.00
		155	6725		6.69	6.99	9.85	11.00
		179	6845		6.85	7.36	10.12	11.50
	802.11ax HE80	135	6625	MCS0	8.92	10.53	12.81	14.00
		151	6705		9.84	10.15	13.01	14.50
		167	6785		10	9.9	12.96	14.00
	802.11ax HE160	143	6665	MCS0	9.71	10.3	13.03	14.50
		175	6825		10.55	10.92	13.75	15.00
U - NII - 8 7.0GHz	802.11a	185	6875	6Mbps	3.78	5.2	7.56	9.00
		213	7015		4.25	4.43	7.35	8.50
		233	7115		4.82	4.16	7.51	9.00
	802.11ax HE20	185	6875	MCS0	4.18	5.81	8.08	9.50
		213	7015		5	5.11	8.07	9.50
		233	7115		6	5.12	8.59	10.00



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	802.11ax HE40	187	6885	MCS0	6.52	7.88	10.26	11.50
		211	7005		5.52	7.25	9.48	10.50
		227	7085		6.18	7.57	9.94	11.00
	802.11ax HE80	183	6865	MCS0	10.5	11.05	13.79	15.00
		199	6945		10.28	11.04	13.69	15.00
		215	7025		9.84	10.46	13.17	14.50
	802.11ax HE160	207	6985	MCS0	9.42	11.57	13.64	15.00



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2 Conducted Power of Bluetooth

BT		Average Conducted Power(dBm)			Tune up
Band	Channel	0	39	78	
BT	GFSK	10.73	10.94	10.92	12.00
	$\pi/4$ DQPSK	10.52	10.65	10.85	12.00
	8DPSK	10.63	10.72	10.83	12.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	10.55	10.84	10.78	12.00
Band	Channel	1	19	38	Tune up
BLE 2M	GFSK	10.72	10.93	10.81	12.00