

8 CONDUCTED RF OUPUT POWER

8.1	WIFI Output Power
8.2	Bluetooth
8.2.1	Bluetooth Output Power
8.2.2	Bluetooth Duty Cycle

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Aux.Ant		SAR Test
				output power(dBm)	tune up power(dBm)	
WIFI 2.4G	11b	1	2412	16.21	16.50	Yes
		6	2437	16.01	16.50	Yes
		11	2462	16.42	16.50	Yes
		12	2467	15.68	16.50	No
		13	2472	15.61	16.50	No
	11g	1	2412	16.17	16.50	No
		6	2437	16.10	16.50	No
		11	2462	15.96	16.50	No
		12	2467	14.91	15.50	No
		13	2472	12.46	13.00	No
	HT20	1	2412	16.05	16.50	No
		6	2437	15.94	16.50	No
		11	2462	15.95	16.50	No
		12	2467	13.57	14.00	No
		13	2472	9.41	10.00	No
	HT40	3	2422	15.53	16.00	No
		6	2437	15.97	16.50	No
		9	2452	15.58	16.00	No
		10	2457	12.54	13.00	No
		11	2462	9.95	10.50	No
	VHT20	1	2412	16.10	16.50	No
		6	2437	15.90	16.50	No
		11	2462	16.04	16.50	No
		12	2467	13.50	14.00	No
		13	2472	9.68	10.00	No
	VHT40	3	2422	15.43	16.00	No
		6	2437	16.00	16.50	No
		9	2452	15.70	16.00	No
		10	2457	12.45	13.00	No
		11	2462	10.03	10.50	No
	11ax20	1	2412	15.90	16.50	No
		6	2437	16.04	16.50	No
		11	2462	15.90	16.50	No
		12	2467	13.57	14.00	No
		13	2472	10.20	10.50	No
	11ax40	3	2422	15.40	16.00	No
		6	2437	16.15	16.50	No
		9	2452	15.63	16.00	No
		10	2457	12.90	13.50	No
		11	2462	9.52	10.00	No
	11ax20- RU26	1	2412	16.08	16.50	No
		11	2462	16.16	16.50	No
		12	2467	13.47	14.00	No
		13	2472	11.06	11.50	No
	11ax20-	6	2437	15.92	16.50	No
		1	2412	15.97	16.50	No
	11ax20- RU106	11	2462	16.04	16.50	No
		12	2467	14.47	15.00	No
		13	2472	11.66	12.00	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. (1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power. (2) When multiple transmission modes (802.11b/g/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n, and 802.11n chosen over 802.11ac, and 802.11ac chosen over 802.11ax. (3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required. Adjusted SAR = 0.835 * (44.67mW/44.67mW) = 0.835 W/Kg, so 2.4G OFDM SAR test is not required.						

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Main.Ant		SAR Test
				output power(dBm)	tune up power(dBm)	
WIFI 2.4G	11b	1	2412	14.62	15.00	Yes
		6	2437	14.68	15.00	Yes
		11	2462	14.73	15.00	Yes
		12	2467	14.51	15.00	No
		13	2472	14.46	15.00	No
	11g	1	2412	14.58	15.00	No
		6	2437	14.43	15.00	No
		11	2462	14.52	15.00	No
		12	2467	14.56	15.00	No
		13	2472	11.45	12.00	No
	HT20	1	2412	14.41	15.00	No
		6	2437	14.69	15.00	No
		11	2462	14.58	15.00	No
		12	2467	13.58	14.00	No
		13	2472	9.63	10.00	No
	HT40	3	2422	14.44	15.00	No
		6	2437	14.47	15.00	No
		9	2452	14.56	15.00	No
		10	2457	12.41	13.00	No
		11	2462	9.55	10.00	No
	VHT20	1	2412	14.45	15.00	No
		6	2437	14.62	15.00	No
		11	2462	14.51	15.00	No
		12	2467	13.45	14.00	No
		13	2472	9.51	10.00	No
	VHT40	3	2422	14.40	15.00	No
		6	2437	14.70	15.00	No
		9	2452	14.55	15.00	No
		10	2457	12.59	13.00	No
		11	2462	9.54	10.00	No
	11ax20	1	2412	14.42	15.00	No
		6	2437	14.43	15.00	No
		11	2462	14.51	15.00	No
		12	2467	13.64	14.00	No
		13	2472	9.55	10.00	No
	11ax40	3	2422	14.64	15.00	No
		6	2437	14.46	15.00	No
		9	2452	14.66	15.00	No
		10	2457	13.17	13.50	No
		11	2462	9.44	10.00	No
	11ax20-RU26	1	2412	14.57	15.00	No
		11	2462	14.59	15.00	No
		12	2467	13.53	14.00	No
		13	2472	10.53	11.00	No
	11ax20-RU106	6	2437	14.58	15.00	No
		1	2412	14.43	15.00	No
		11	2462	14.64	15.00	No
		12	2467	14.53	15.00	No
		13	2472	10.91	11.50	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
 2) When multiple transmission modes (802.11b/g/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n, and 802.11n chosen over 802.11ac, and 802.11ac chosen over 802.11ax.
 (3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.
 Adjusted SAR = $1.137 * (31.62\text{mW}/31.62\text{mW}) = 1.137$ W/Kg, so 2.4G OFDM SAR test is not required.

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	MIMO.Ant		SAR Test
				output power(dBm)	tune up power(dBm)	
WIFI 2.4G	11b	1	2412	17.61	18.00	No
		6	2437	17.65	18.00	No
		11	2462	17.61	18.00	No
		12	2467	17.64	18.00	No
		13	2472	17.48	18.00	No
	11g	1	2412	17.59	18.00	No
		6	2437	17.61	18.00	No
		11	2462	17.51	18.00	No
		12	2467	17.53	18.00	No
		13	2472	14.58	15.00	No
	HT20	1	2412	17.54	18.00	No
		6	2437	17.47	18.00	No
		11	2462	17.52	18.00	No
		12	2467	16.46	17.00	No
		13	2472	12.68	13.00	No
	HT40	3	2422	17.56	18.00	No
		6	2437	17.61	18.00	No
		9	2452	17.50	18.00	No
		10	2457	15.58	16.00	No
		11	2462	12.63	13.00	No
	VHT20	1	2412	17.50	18.00	No
		6	2437	17.68	18.00	No
		11	2462	17.65	18.00	No
		12	2467	16.59	17.00	No
		13	2472	12.67	13.00	No
	VHT40	3	2422	17.61	18.00	No
		6	2437	17.53	18.00	No
		9	2452	17.61	18.00	No
		10	2457	15.59	16.00	No
		11	2462	12.65	13.00	No
	11ax20	1	2412	17.58	18.00	No
		6	2437	17.57	18.00	No
		11	2462	17.55	18.00	No
		12	2467	16.56	17.00	No
		13	2472	12.63	13.00	No
	11ax40	3	2422	17.50	18.00	No
		6	2437	17.68	18.00	No
		9	2452	17.50	18.00	No
		10	2457	16.06	16.50	No
		11	2462	12.54	13.00	No
	11ax20- RU26	1	2412	17.67	18.00	No
		11	2462	17.53	18.00	No
		12	2467	16.57	17.00	No
		13	2472	13.70	14.00	No
	11ax20- RU106	6	2437	17.46	18.00	No
		1	2412	17.47	18.00	No
	11ax20- RU106	11	2462	17.61	18.00	No
		12	2467	17.49	18.00	No
		13	2472	14.19	14.50	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. (1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power. (2) When multiple transmission modes (802.11b/g/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n, and 802.11n chosen over 802.11ac, and 802.11ac chosen over 802.11ax.						

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Aux.Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 5.2G	11a	36	5180	10.94	11.50	No
		40	5200	11.02	11.50	No
		48	5240	11.09	11.50	No
	11HT20	36	5180	11.13	11.50	No
		40	5200	11.11	11.50	No
		48	5240	11.20	11.50	No
	11HT40	38	5190	11.14	11.50	No
		46	5230	11.11	11.50	No
	11ac20	36	5180	10.99	11.50	No
		40	5200	11.00	11.50	No
		48	5240	10.91	11.50	No
	11ac40	38	5190	11.02	11.50	No
		46	5230	10.99	11.50	No
	11ac80	42	5210	11.04	11.50	No
	11ac160	50	5250	11.04	11.50	No
	11ax20	36	5180	11.15	11.50	No
		40	5200	11.12	11.50	No
		48	5240	11.08	11.50	No
	11ax40	38	5190	11.12	11.50	No
		46	5230	11.17	11.50	No
	11ax80	42	5210	11.14	11.50	No
	11ax160	50	5250	11.12	11.50	No
	11ax20-RU26	36	5180	11.14	11.50	No
	11ax20-RU52	48	5240	11.06	11.50	No
	11ax20-RU106	36	5180	11.17	11.50	No
WIFI 5.3G	11a	52	5260	10.97	11.50	No
		60	5300	11.16	11.50	No
		64	5320	11.06	11.50	No
	11HT20	52	5260	10.99	11.50	No
		60	5300	10.96	11.50	No
		64	5320	11.13	11.50	No
	11HT40	54	5270	11.12	11.50	No
		62	5310	11.02	11.50	No
	11ac20	52	5260	10.91	11.50	No
		60	5300	10.94	11.50	No
		64	5320	11.17	11.50	No
	11ac40	54	5270	11.01	11.50	No
		62	5310	11.17	11.50	No
	11ac80	58	5290	11.32	11.50	Yes
	11ac160	50	5250	10.99	11.50	No
	11ax20	52	5260	11.20	11.50	No
		60	5300	11.18	11.50	No
		64	5320	10.93	11.50	No
	11ax40	54	5270	10.90	11.50	No
		62	5310	11.13	11.50	No
	11ax80	58	5290	11.06	11.50	No
	11ax160	50	5250	11.12	11.50	No
	11ax20-RU52	64	5320	11.12	11.50	No
	11ax20-RU106	64	5320	10.95	11.50	No
WIFI 5.6G	11a	100	5500	9.05	9.50	No
		116	5580	8.91	9.50	No
		140	5700	9.11	9.50	No
		144	5720	9.03	9.50	No
	11HT20	100	5500	8.91	9.50	No
		116	5580	9.15	9.50	No
		140	5700	9.02	9.50	No
		144	5720	9.18	9.50	No
	11HT40	102	5510	9.02	9.50	No
		110	5550	8.92	9.50	No
		134	5670	9.06	9.50	No
		142	5710	8.91	9.50	No
	11ac20	100	5500	9.16	9.50	No
		116	5580	9.18	9.50	No
		140	5700	9.01	9.50	No
		144	5720	9.08	9.50	No
	11ac40	102	5510	8.99	9.50	No
		110	5550	9.12	9.50	No
		134	5670	9.18	9.50	No
		142	5710	9.05	9.50	No
	11ac80	106	5530	8.95	9.50	No
		122	5610	9.02	9.50	No
		138	5690	9.04	9.50	No
	11ac160	114	5570	9.11	9.50	Yes
	11ax20	100	5500	9.10	9.50	No
		116	5580	9.10	9.50	No
		140	5700	9.07	9.50	No
		144	5720	9.05	9.50	No
	11ax40	102	5510	9.13	9.50	No
		110	5550	9.06	9.50	No
		134	5670	9.15	9.50	No
		142	5710	9.05	9.50	No
	11ax80	106	5530	9.14	9.50	No
		122	5610	9.00	9.50	No
		138	5690	9.17	9.50	No
		114	5570	9.01	9.50	No
	11ax20-RU52	100	5500	9.11	9.50	No
	11ax20-RU106	140	5700	9.14	9.50	No
		100	5500	9.03	9.50	No
		140	5700	8.94	9.50	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
 (1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
 (2) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n, 802.11n is chosen over 802.11ac then 802.11ax.(3) (3)According KDB 247228, When the same maximum output power is specified for WIFI 5.2G&5.3G , maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test is not required.begin SAR measurement in WIFI5.3G. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WIFI5.2G band for that configuration (802.11 mode and exposure condition); WIFI 5.3G SAR = 1.014W/Kg, so WIFI 5.2G SAR test is not required.

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Aux.Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 5.8G	11a	149	5745	9.43	10.00	No
		157	5785	9.49	10.00	No
		165	5825	9.50	10.00	No
	11HT20	149	5745	9.62	10.00	No
		157	5785	9.40	10.00	No
		165	5825	9.46	10.00	No
	11HT40	151	5755	9.40	10.00	No
		159	5795	9.48	10.00	No
		149	5745	9.67	10.00	No
	11ac20	157	5785	9.40	10.00	No
		165	5825	9.64	10.00	No
		151	5755	9.70	10.00	No
	11ac40	159	5795	9.69	10.00	No
		155	5775	9.68	10.00	Yes
		149	5745	9.51	10.00	No
	11ax20	157	5785	9.60	10.00	No
		165	5825	9.62	10.00	No
		151	5755	9.65	10.00	No
	11ax40	159	5795	9.47	10.00	No
		155	5775	9.51	10.00	No
		149	5745	9.65	10.00	No
	11ax20-RU26	165	5825	9.69	10.00	No
	11ax20-RU52	165	5825	9.51	10.00	No
	11ax20-RU106	149	5745	9.46	10.00	No
		165	5825	9.45	10.00	No
		169	5845	9.50	10.00	No
WIFI 5.9G	11a	173	5865	9.46	10.00	No
		177	5885	9.54	10.00	No
		169	5845	9.51	10.00	No
	11HT20	173	5865	9.66	10.00	No
		177	5885	9.61	10.00	No
		167	5835	9.63	10.00	No
	11HT40	175	5875	9.50	10.00	No
		169	5845	9.65	10.00	No
		173	5865	9.56	10.00	No
	11ac20	177	5885	9.59	10.00	No
		167	5835	9.45	10.00	No
		175	5875	9.53	10.00	No
	11ac40	171	5855	9.43	10.00	No
		163	5815	9.47	10.00	Yes
		169	5845	9.47	10.00	No
	11ac80	173	5865	9.48	10.00	No
		177	5885	9.43	10.00	No
		167	5835	9.45	10.00	No
	11ax20	175	5875	9.66	10.00	No
		171	5855	9.66	10.00	No
		163	5815	9.56	10.00	No
	11ax40	177	5885	9.43	10.00	No
		177	5885	9.46	10.00	No
		177	5885	9.69	10.00	No
	11ax20-RU26	177	5885	9.43	10.00	No
	11ax20-RU52	177	5885	9.46	10.00	No
	11ax20-RU106	177	5885	9.69	10.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
(1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
(2) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n, 802.11n is chosen over 802.11ac then 802.11ax.

test Mode	Modulation	Channel number	Fre. (MHz)	Main Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 5.2G	11a	36	5180	9.57	10.00	No
		40	5200	9.51	10.00	No
		48	5240	9.40	10.00	No
	11HT20	36	5180	9.59	10.00	No
		40	5200	9.57	10.00	No
		48	5240	9.66	10.00	No
	11HT40	38	5190	9.40	10.00	No
		46	5230	9.57	10.00	No
	11ac20	36	5180	9.42	10.00	No
		40	5200	9.69	10.00	No
		48	5240	9.59	10.00	No
	11ac40	38	5190	9.45	10.00	No
		46	5230	9.55	10.00	No
	11ac80	42	5210	9.49	10.00	No
	11ac160	50	5250	9.42	10.00	No
	11ax20	36	5180	9.46	10.00	No
		40	5200	9.69	10.00	No
		48	5240	9.66	10.00	No
	11ax40	38	5190	9.42	10.00	No
		46	5230	9.64	10.00	No
	11ax80	42	5210	9.67	10.00	No
	11ax160	50	5250	9.58	10.00	No
	11ax20-RU26	36	5180	9.50	10.00	No
	11ax20-RU52	48	5240	9.61	10.00	No
	11ax20-RU106	36	5180	9.42	10.00	No
WIFI 5.3G	11a	52	5260	9.70	10.00	No
		60	5300	9.67	10.00	No
		64	5320	9.69	10.00	No
	11HT20	52	5260	9.63	10.00	No
		60	5300	9.53	10.00	No
		64	5320	9.63	10.00	No
	11HT40	54	5270	9.48	10.00	No
		62	5310	9.68	10.00	No
	11ac20	52	5260	9.65	10.00	No
		60	5300	9.68	10.00	No
		64	5320	9.69	10.00	No
	11ac40	54	5270	9.68	10.00	No
		62	5310	9.60	10.00	No
	11ac80	58	5290	9.61	10.00	Yes
	11ac160	50	5250	9.67	10.00	No
	11ax20	52	5260	9.70	10.00	No
		60	5300	9.48	10.00	No
		64	5320	9.57	10.00	No
	11ax40	54	5270	9.41	10.00	No
		62	5310	9.50	10.00	No
	11ax80	58	5290	9.62	10.00	No
	11ax160	50	5250	9.66	10.00	No
	11ax20-RU52	64	5320	9.69	10.00	No
	11ax20-RU106	64	5320	9.64	10.00	No
WIFI 5.6G	11a	100	5500	9.12	9.50	No
		116	5580	9.06	9.50	No
		140	5700	9.07	9.50	No
		144	5720	9.11	9.50	No
	11HT20	100	5500	9.16	9.50	No
		116	5580	9.14	9.50	No
		140	5700	9.09	9.50	No
		144	5720	8.91	9.50	No
	11HT40	102	5510	9.18	9.50	No
		110	5550	9.14	9.50	No
		134	5670	9.20	9.50	No
		142	5710	8.92	9.50	No
	11ac20	100	5500	8.96	9.50	No
		116	5580	9.13	9.50	No
		140	5700	9.08	9.50	No
		144	5720	8.94	9.50	No
	11ac40	102	5510	9.11	9.50	No
		110	5550	8.96	9.50	No
		134	5670	9.06	9.50	No
		142	5710	8.96	9.50	No
	11ac80	106	5530	8.90	9.50	No
		122	5610	9.14	9.50	No
		138	5690	8.92	9.50	No
	11ac160	114	5570	9.23	9.50	Yes
	11ax20	100	5500	9.10	9.50	No
		116	5580	9.18	9.50	No
		140	5700	9.14	9.50	No
		144	5720	8.96	9.50	No
	11ax40	102	5510	9.03	9.50	No
		110	5550	9.16	9.50	No
		134	5670	9.11	9.50	No
		142	5710	8.98	9.50	No
	11ax80	106	5530	8.96	9.50	No
		122	5610	9.15	9.50	No
		138	5690	8.94	9.50	No
	11ax160	114	5570	9.03	9.50	No
	11ax20-RU52	100	5500	9.01	9.50	No
		140	5700	9.01	9.50	No
	11ax20-RU106	100	5500	9.19	9.50	No
		140	5700	8.91	9.50	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
 (1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
 (2) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n, 802.11n is chosen over 802.11ac then 802.11ax.(3) (3)According KDB 247228, When the same maximum output power is specified for WIFI 5.2G&5.3G , maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test is not required.begin SAR measurement in WIFI5.3G. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for WIFI5.2G band for that configuration (802.11 mode and exposure condition); WIFI 5.3G SAR = 1.014W/Kg, so WIFI 5.2G SAR test is not required.

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Main_Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 5.8G	11a	149	5745	9.50	10.00	No
		157	5785	9.70	10.00	No
		165	5825	9.69	10.00	No
	11HT20	149	5745	9.53	10.00	No
		157	5785	9.61	10.00	No
		165	5825	9.42	10.00	No
	11HT40	151	5755	9.59	10.00	No
		159	5795	9.62	10.00	No
		149	5745	9.68	10.00	No
	11ac20	157	5785	9.58	10.00	No
		165	5825	9.46	10.00	No
		151	5755	9.62	10.00	No
	11ac40	159	5795	9.57	10.00	No
		155	5775	9.72	10.00	Yes
		149	5745	9.51	10.00	No
	11ax20	157	5785	9.53	10.00	No
		165	5825	9.52	10.00	No
		151	5755	9.54	10.00	No
	11ax40	159	5795	9.44	10.00	No
		155	5775	9.50	10.00	No
		149	5745	9.52	10.00	No
WIFI 5.9G	11a	165	5825	9.58	10.00	No
		149	5745	9.51	10.00	No
		165	5825	9.68	10.00	No
	11HT20	169	5845	9.51	10.00	No
		173	5865	9.43	10.00	No
		177	5885	9.63	10.00	No
	11HT40	169	5845	9.44	10.00	No
		173	5865	9.51	10.00	No
		177	5885	9.41	10.00	No
	11ac20	167	5835	9.60	10.00	No
		175	5875	9.69	10.00	No
		169	5845	9.52	10.00	No
	11ac40	173	5865	9.67	10.00	No
		177	5885	9.68	10.00	No
		167	5835	9.43	10.00	No
	11ax20	175	5875	9.51	10.00	No
		171	5855	9.61	10.00	No
		163	5815	9.82	10.00	Yes
	11ax40	169	5845	9.60	10.00	No
		173	5865	9.68	10.00	No
		177	5885	9.58	10.00	No
	11ax80	167	5835	9.68	10.00	No
		175	5875	9.51	10.00	No
		171	5855	9.58	10.00	No
	11ax160	163	5815	9.65	10.00	No
		177	5885	9.58	10.00	No
		177	5885	9.53	10.00	No
	11ax20-RU26	177	5885	9.56	10.00	No
		177	5885	9.56	10.00	No
		177	5885	9.56	10.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
(1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
(2) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n, 802.11n is chosen over 802.11ac then 802.11ax.

test Mode	Modulation	Channel number	Fre. (MHz)	MIMO Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 5.2G	11a	36	5180	12.46	13.00	No
		40	5200	12.61	13.00	No
		48	5240	12.69	13.00	No
	11HT20	36	5180	12.70	13.00	No
		40	5200	12.56	13.00	No
		48	5240	12.56	13.00	No
	11HT40	38	5190	12.52	13.00	No
		46	5230	12.52	13.00	No
	11ac20	36	5180	12.55	13.00	No
		40	5200	12.49	13.00	No
		48	5240	12.70	13.00	No
	11ac40	38	5190	12.58	13.00	No
		46	5230	12.56	13.00	No
	11ac80	42	5210	12.58	13.00	No
	11ac160	50	5250	12.56	13.00	No
	11ax20	36	5180	12.53	13.00	No
		40	5200	12.48	13.00	No
		48	5240	12.55	13.00	No
	11ax40	38	5190	12.65	13.00	No
		46	5230	12.70	13.00	No
	11ax80	42	5210	12.56	13.00	No
	11ax160	50	5250	12.46	13.00	No
	11ax20-RU26	36	5180	12.47	13.00	No
	11ax20-RU52	48	5240	12.57	13.00	No
	11ax20-RU106	36	5180	12.65	13.00	No
WIFI 5.3G	11a	52	5260	12.53	13.00	No
		60	5300	12.67	13.00	No
		64	5320	12.55	13.00	No
	11HT20	52	5260	12.59	13.00	No
		60	5300	12.51	13.00	No
		64	5320	12.60	13.00	No
	11HT40	54	5270	12.70	13.00	No
		62	5310	12.66	13.00	No
	11ac20	52	5260	12.51	13.00	No
		60	5300	12.50	13.00	No
		64	5320	12.60	13.00	No
	11ac40	54	5270	12.59	13.00	No
		62	5310	12.50	13.00	No
	11ac80	58	5290	12.51	13.00	No
	11ac160	50	5250	12.45	13.00	No
	11ax20	52	5260	12.49	13.00	No
		60	5300	12.62	13.00	No
		64	5320	12.68	13.00	No
	11ax40	54	5270	12.66	13.00	No
		62	5310	12.51	13.00	No
	11ax80	58	5290	12.61	13.00	No
	11ax160	50	5250	12.64	13.00	No
	11ax20-RU52	64	5320	12.47	13.00	No
	11ax20-RU106	64	5320	12.58	13.00	No
WIFI 5.6G	11a	100	5500	12.15	12.50	No
		116	5580	12.10	12.50	No
		140	5700	12.15	12.50	No
		144	5720	11.95	12.50	No
	11HT20	100	5500	12.06	12.50	No
		116	5580	12.15	12.50	No
		140	5700	12.00	12.50	No
		144	5720	12.16	12.50	No
	11HT40	102	5510	12.16	12.50	No
		110	5550	12.01	12.50	No
		134	5670	12.03	12.50	No
		142	5710	12.07	12.50	No
	11ac20	100	5500	12.02	12.50	No
		116	5580	12.03	12.50	No
		140	5700	11.99	12.50	No
		144	5720	11.99	12.50	No
	11ac40	102	5510	11.98	12.50	No
		110	5550	12.08	12.50	No
		134	5670	12.04	12.50	No
		142	5710	12.01	12.50	No
	11ac80	106	5530	12.17	12.50	No
		122	5610	12.11	12.50	No
		138	5690	12.17	12.50	No
		114	5570	12.00	12.50	No
	11ax20	100	5500	12.19	12.50	No
		116	5580	12.18	12.50	No
		140	5700	12.09	12.50	No
		144	5720	11.97	12.50	No
	11ax40	102	5510	12.12	12.50	No
		110	5550	12.07	12.50	No
		134	5670	12.03	12.50	No
		142	5710	12.17	12.50	No
	11ax80	106	5530	12.04	12.50	No
		122	5610	12.20	12.50	No
		138	5690	12.11	12.50	No
		114	5570	11.95	12.50	No
	11ax20-RU52	100	5500	12.19	12.50	No
	11ax20-RU106	140	5700	11.99	12.50	No
		100	5500	11.97	12.50	No
		140	5700	12.01	12.50	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. (1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power. (2) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n,802.11n is chosen over 802.11ac then 802.11ax.						

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	MIMO Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 5.8G	11a	149	5745	12.68	13.00	No
		157	5785	12.39	13.00	No
		165	5825	12.68	13.00	No
	11HT20	149	5745	12.56	13.00	No
		157	5785	12.62	13.00	No
		165	5825	12.68	13.00	No
	11HT40	151	5755	12.41	13.00	No
		159	5795	12.66	13.00	No
		149	5745	12.44	13.00	No
	11ac20	157	5785	12.49	13.00	No
		165	5825	12.62	13.00	No
		151	5755	12.64	13.00	No
	11ac40	159	5795	12.35	13.00	No
		155	5775	12.58	13.00	No
		149	5745	12.69	13.00	No
	11ax20	157	5785	12.47	13.00	No
		165	5825	12.39	13.00	No
		151	5755	12.89	13.00	No
	11ax40	159	5795	12.42	13.00	No
		155	5775	12.66	13.00	No
		149	5745	12.55	13.00	No
	11ax20-RU26	165	5825	12.66	13.00	No
		165	5825	12.38	13.00	No
		149	5745	12.48	13.00	No
	11ax20-RU106	165	5825	12.53	13.00	No
WIFI 5.9G	11a	169	5845	12.60	13.00	No
		173	5865	12.53	13.00	No
		177	5885	12.55	13.00	No
	11HT20	169	5845	12.45	13.00	No
		173	5865	12.46	13.00	No
		177	5885	12.40	13.00	No
	11HT40	167	5835	12.61	13.00	No
		175	5875	12.70	13.00	No
		169	5845	12.47	13.00	No
	11ac20	173	5865	12.68	13.00	No
		177	5885	12.41	13.00	No
		167	5835	12.46	13.00	No
	11ac40	175	5875	12.47	13.00	No
		171	5855	12.67	13.00	No
		163	5815	12.44	13.00	No
	11ax20	169	5845	12.54	13.00	No
		173	5865	12.68	13.00	No
		177	5885	12.55	13.00	No
	11ax40	167	5835	12.60	13.00	No
		175	5875	12.59	13.00	No
		171	5855	12.64	13.00	No
	11ax160	163	5815	12.70	13.00	No
		177	5885	12.42	13.00	No
		177	5885	12.47	13.00	No
	11ax20-RU52	177	5885	12.51	13.00	No
		177	5885	12.51	13.00	No
		177	5885	12.51	13.00	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.
 (1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power.
 (2) When multiple transmission modes (802.11a/n/ac/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n, 802.11n is chosen over 802.11ac then 802.11ax.

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Aux.Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 6G	11a	1	5955	10.06	10.50	No
		45	6175	10.18	10.50	No
		93	6415	10.20	10.50	No
		97	6435	10.09	10.50	No
		105	6475	10.13	10.50	No
		113	6515	10.16	10.50	No
		117	6535	10.16	10.50	No
		153	6715	10.17	10.50	No
		181	6855	10.24	10.50	No
		185	6875	10.07	10.50	No
		213	7015	10.11	10.50	No
		233	7115	10.17	10.50	No
	11ax20	1	5955	10.21	10.50	No
		45	6175	10.15	10.50	No
		93	6415	10.20	10.50	No
		97	6435	10.08	10.50	No
		105	6475	10.07	10.50	No
		113	6515	10.23	10.50	No
		117	6535	10.15	10.50	No
		153	6715	10.10	10.50	No
		181	6855	10.14	10.50	No
		185	6875	10.08	10.50	No
		213	7015	10.10	10.50	No
		233	7115	10.17	10.50	No
	11ax40	3	5965	10.11	10.50	No
		43	6165	10.07	10.50	No
		91	6405	10.14	10.50	No
		99	6445	10.18	10.50	No
		107	6485	10.20	10.50	No
		115	6525	10.09	10.50	No
		123	6565	10.15	10.50	No
		155	6725	10.14	10.50	No
		179	6845	10.20	10.50	No
		187	6885	10.14	10.50	No
		211	7005	10.14	10.50	No
		227	7085	10.14	10.50	No
	11ax80	7	5985	10.10	10.50	No
		39	6145	10.22	10.50	No
		87	6385	10.05	10.50	No
		103	6465	10.16	10.50	No
		119	6545	10.12	10.50	No
		135	6625	10.21	10.50	No
		151	6705	10.08	10.50	No
		167	6785	10.10	10.50	No
		183	6865	10.16	10.50	No
		199	6945	10.21	10.50	No
		215	7025	10.24	10.50	No
	11ax160	15	6025	10.26	10.50	Yes
		47	6185	10.22	10.50	Yes
		79	6345	10.35	10.50	Yes
		111	6505	10.23	10.50	Yes
		143	6665	10.31	10.50	Yes
		175	6825	10.18	10.50	Yes
		207	6985	10.28	10.50	Yes
	RU-26/0	1	5955	-7.26	-7.00	No
	RU-26/8	93	6415	-7.42	-7.00	No
	RU-26/0	97	6435	-7.27	-7.00	No
	RU-26/0	117	6535	-7.36	-7.00	No
	RU-26/8	181	6855	-7.39	-7.00	No
	RU-26/8	213	7015	-7.40	-7.00	No
	RU-52/37	1	5955	-4.40	-4.00	No
	RU-52/40	93	6415	-4.29	-4.00	No
	RU-52/37	97	6435	-4.33	-4.00	No
	RU-52/37	117	6535	-4.34	-4.00	No
	RU-52/40	181	6855	-4.34	-4.00	No
	RU-52/40	213	7015	-4.27	-4.00	No
	RU-106/53	1	5955	-1.45	-1.00	No
	RU-106/54	93	6415	-1.35	-1.00	No
	RU-106/53	97	6435	-1.39	-1.00	No
	RU-106/53	117	6535	-1.40	-1.00	No
	RU-106/54	181	6855	-1.27	-1.00	No
	RU-106/54	213	7015	-1.27	-1.00	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power. 2) When multiple transmission modes (802.11a/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen then 802.11ax.						

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Main.Ant		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 6G	11a	1	5955	10.70	11.00	No
		45	6175	10.75	11.00	No
		93	6415	10.64	11.00	No
		97	6435	10.62	11.00	No
		105	6475	10.62	11.00	No
		113	6515	10.65	11.00	No
		117	6535	10.60	11.00	No
		153	6715	10.63	11.00	No
		181	6855	10.72	11.00	No
		185	6875	10.71	11.00	No
		213	7015	10.64	11.00	No
		233	7115	10.70	11.00	No
	11ax20	1	5955	10.63	11.00	No
		45	6175	10.70	11.00	No
		93	6415	10.72	11.00	No
		97	6435	10.58	11.00	No
		105	6475	10.58	11.00	No
		113	6515	10.59	11.00	No
		117	6535	10.70	11.00	No
		153	6715	10.72	11.00	No
		181	6855	10.55	11.00	No
		185	6875	10.63	11.00	No
		213	7015	10.67	11.00	No
		233	7115	10.60	11.00	No
	11ax40	3	5965	10.59	11.00	No
		43	6165	10.59	11.00	No
		91	6405	10.59	11.00	No
		99	6445	10.62	11.00	No
		107	6485	10.73	11.00	No
		115	6525	10.61	11.00	No
		123	6565	10.61	11.00	No
		155	6725	10.70	11.00	No
		179	6845	10.70	11.00	No
		187	6885	10.59	11.00	No
		211	7005	10.67	11.00	No
		227	7085	10.73	11.00	No
	11ax80	7	5985	10.73	11.00	No
		39	6145	10.58	11.00	No
		87	6385	10.57	11.00	No
		103	6465	10.57	11.00	No
		119	6545	10.68	11.00	No
		135	6625	10.70	11.00	No
		151	6705	10.73	11.00	No
		167	6785	10.68	11.00	No
		183	6865	10.68	11.00	No
		199	6945	10.56	11.00	No
		215	7025	10.62	11.00	No
	11ax160	15	6025	10.93	11.00	Yes
		47	6185	10.74	11.00	Yes
		79	6345	10.82	11.00	Yes
		111	6505	10.89	11.00	Yes
		143	6665	10.81	11.00	Yes
		175	6825	10.74	11.00	Yes
		207	6985	10.83	11.00	Yes
	RU-26/0	1	5955	-7.39	-7.00	No
	RU-26/8	93	6415	-7.41	-7.00	No
	RU-26/0	97	6435	-7.43	-7.00	No
	RU-26/0	117	6535	-7.30	-7.00	No
	RU-26/8	181	6855	-7.41	-7.00	No
	RU-26/8	213	7015	-7.40	-7.00	No
	RU-52/37	1	5955	-4.40	-4.00	No
	RU-52/40	93	6415	-4.26	-4.00	No
	RU-52/37	97	6435	-4.32	-4.00	No
	RU-52/37	117	6535	-4.42	-4.00	No
	RU-52/40	181	6855	-4.33	-4.00	No
	RU-52/40	213	7015	-4.40	-4.00	No
	RU-106/53	1	5955	-1.39	-1.00	No
	RU-106/54	93	6415	-1.45	-1.00	No
	RU-106/53	97	6435	-1.25	-1.00	No
	RU-106/53	117	6535	-1.35	-1.00	No
	RU-106/54	181	6855	-1.32	-1.00	No
	RU-106/54	213	7015	-1.36	-1.00	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power. 2) When multiple transmission modes (802.11a/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen then 802.11ax.						

8.1 WIFI Output Power

test Mode	Modulation	Channel number	Fre. (MHz)	Main.MIMO		SAR Test
				output power (dBm)	tune up power (dBm)	
WIFI 6G	11a	1	5955	13.07	13.50	No
		45	6175	13.23	13.50	No
		93	6415	13.22	13.50	No
		97	6435	13.24	13.50	No
		105	6475	13.07	13.50	No
		113	6515	13.23	13.50	No
		117	6535	13.24	13.50	No
		153	6715	13.25	13.50	No
		181	6855	13.06	13.50	No
		185	6875	13.20	13.50	No
		213	7015	13.13	13.50	No
		233	7115	13.09	13.50	No
	11ax20	1	5955	13.22	13.50	No
		45	6175	13.19	13.50	No
		93	6415	13.16	13.50	No
		97	6435	13.05	13.50	No
		105	6475	13.12	13.50	No
		113	6515	13.15	13.50	No
		117	6535	13.20	13.50	No
		153	6715	13.06	13.50	No
		181	6855	13.05	13.50	No
		185	6875	13.24	13.50	No
		213	7015	13.05	13.50	No
		233	7115	13.25	13.50	No
	11ax40	3	5965	13.24	13.50	No
		43	6165	13.15	13.50	No
		91	6405	13.12	13.50	No
		99	6445	13.17	13.50	No
		107	6485	13.15	13.50	No
		115	6525	13.21	13.50	No
		123	6565	13.19	13.50	No
		155	6725	13.19	13.50	No
		179	6845	13.21	13.50	No
		187	6885	13.06	13.50	No
		211	7005	13.19	13.50	No
		227	7085	13.20	13.50	No
	11ax80	7	5985	13.25	13.50	No
		39	6145	13.11	13.50	No
		87	6385	13.17	13.50	No
		103	6465	13.05	13.50	No
		119	6545	13.22	13.50	No
		135	6625	13.25	13.50	No
		151	6705	13.15	13.50	No
		167	6785	13.18	13.50	No
		183	6865	13.21	13.50	No
		199	6945	13.11	13.50	No
		215	7025	13.18	13.50	No
	11ax160	15	6025	13.13	13.50	No
		47	6185	13.15	13.50	No
		79	6345	13.07	13.50	No
		111	6505	13.23	13.50	No
		143	6665	13.05	13.50	No
		175	6825	13.15	13.50	No
		207	6985	13.07	13.50	No
	RU-26/0	1	5955	-4.18	-4.00	No
	RU-26/8	93	6415	-4.17	-4.00	No
	RU-26/0	97	6435	-4.13	-4.00	No
	RU-26/0	117	6535	-4.18	-4.00	No
	RU-26/8	181	6855	-4.26	-4.00	No
	RU-26/8	213	7015	-4.61	-4.00	No
	RU-52/37	1	5955	-1.38	-1.00	No
	RU-52/40	93	6415	-1.34	-1.00	No
	RU-52/37	97	6435	-1.31	-1.00	No
	RU-52/37	117	6535	-1.36	-1.00	No
	RU-52/40	181	6855	-1.34	-1.00	No
	RU-52/40	213	7015	-1.57	-1.00	No
	RU-106/53	1	5955	1.30	2.00	No
	RU-106/54	93	6415	1.32	2.00	No
	RU-106/53	97	6435	1.53	2.00	No
	RU-106/53	117	6535	1.49	2.00	No
	RU-106/54	181	6855	1.42	2.00	No
	RU-106/54	213	7015	1.23	2.00	No
Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially. 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same maximum tune-up output power. 2) When multiple transmission modes (802.11a/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen then 802.11ax.						

8.2 Bluetooth

8.2.1 Bluetooth Output Power

Bluetooth-Aux.Ant(MT7922A12L)					
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)	Tune up power(dBm)	SAR Test
BT	DH5	2402	12.78	13.00	Yes
		2441	12.93	13.00	Yes
		2480	12.92	13.00	Yes
	2DH5	2402	9.04	9.50	Yes
		2441	9.20	9.50	Yes
		2480	8.94	9.50	Yes
	3DH5	2402	8.90	9.50	No
		2441	9.12	9.50	No
		2480	9.18	9.50	No
	BLE1M	2402	11.66	12.00	No
		2440	11.53	12.00	No
		2480	11.56	12.00	No
	BLE2M	2404	11.59	12.00	No
		2440	11.50	12.00	No
		2478	11.70	12.00	No
Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.					

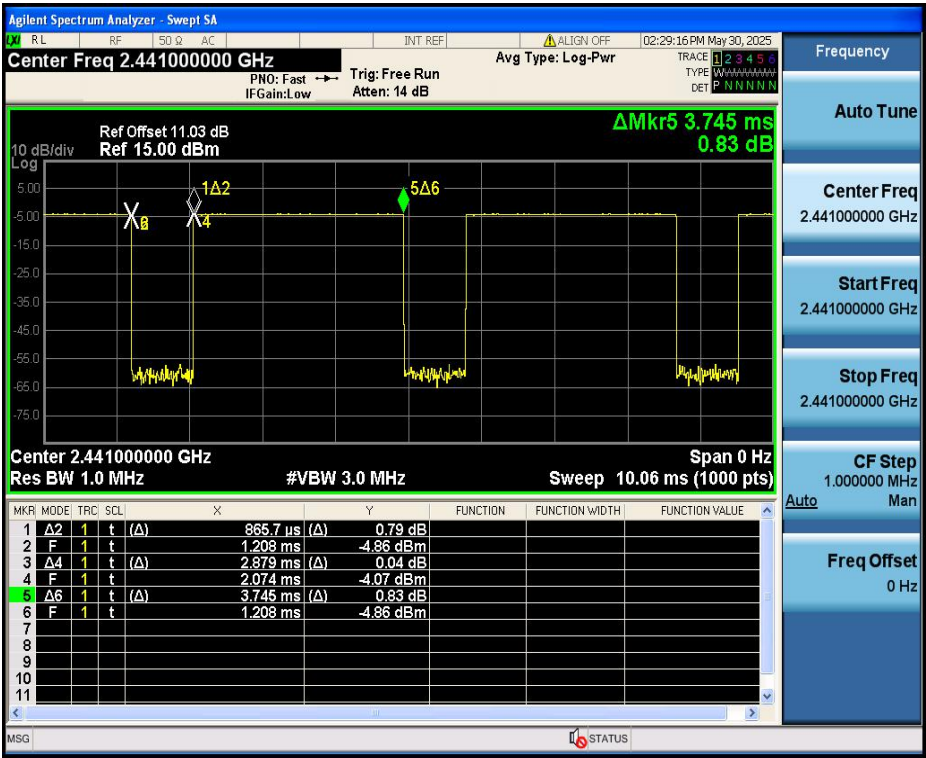
8.2.1 Bluetooth Output Power

Bluetooth-Stand-alone Bluetooth.Ant					
test Mode	Modulation	Fre.(MHz)	AV output power(dBm)	Tune up power(dBm)	SAR Test
BT	DH5	2402	1.47	3.00	Yes
		2441	2.28	3.00	Yes
		2480	2.86	3.00	Yes
	2DH5	2402	-0.09	1.50	No
		2441	0.81	1.50	No
		2480	1.35	1.50	No
Note: Since bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using DH5 modulation,and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode.					

8.2.2 Bluetooth Duty Cycle

The MT7922A12L Bluetooth duty cycle is 76.88% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle



8.2.2 Bluetooth Duty Cycle

The Stand-alone Bluetooth duty cycle is 76.68% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

