

Appendix A. Test Data

Maximum Conducted Output Power Measurement													
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	Gain	EIRP Power		EIRP Power Limit	RF Power setting in Test Software	Test Software Version
			dBm	W	dBm	W	W	dB	dBm	W	W		
BT_GFSK	2402	DH1	3.20	0.0021	3.50	0.00224	<0.125	2.28	5.78	0.00378	4.00	default	ADB
		DH3	3.21	0.0021	3.51	0.00224	<0.125	2.28	5.79	0.00379	4.00	default	
		DH5	3.23	0.0021	3.52	0.00225	<0.125	2.28	5.80	0.00380	4.00	default	
	2441	DH1	3.03	0.0020	3.40	0.00219	<0.125	2.28	5.68	0.00370	4.00	default	
		DH3	3.04	0.0020	3.41	0.00219	<0.125	2.28	5.69	0.00371	4.00	default	
		DH5	3.06	0.0020	3.42	0.00220	<0.125	2.28	5.70	0.00372	4.00	default	
	2480	DH1	2.95	0.0020	3.31	0.00214	<0.125	2.28	5.59	0.00362	4.00	default	
		DH3	2.97	0.0020	3.32	0.00215	<0.125	2.28	5.60	0.00363	4.00	default	
		DH5	2.98	0.0020	3.34	0.00216	<0.125	2.28	5.62	0.00365	4.00	default	
BT_π/4-DQPSK	2402	2DH1	3.16	0.0021	3.42	0.00220	<0.125	2.28	5.70	0.00372	4.00	default	
		2DH3	3.18	0.0021	3.43	0.00220	<0.125	2.28	5.71	0.00372	4.00	default	
		2DH5	3.19	0.0021	3.44	0.00221	<0.125	2.28	5.72	0.00373	4.00	default	
	2441	2DH1	3.08	0.0020	3.38	0.00218	<0.125	2.28	5.66	0.00368	4.00	default	
		2DH3	3.09	0.0020	3.40	0.00219	<0.125	2.28	5.68	0.00370	4.00	default	
		2DH5	3.11	0.0020	3.41	0.00219	<0.125	2.28	5.69	0.00371	4.00	default	
	2480	2DH1	3.02	0.0020	3.36	0.00217	<0.125	2.28	5.64	0.00366	4.00	default	
		2DH3	3.04	0.0020	3.37	0.00217	<0.125	2.28	5.65	0.00367	4.00	default	
		2DH5	3.06	0.0020	3.39	0.00218	<0.125	2.28	5.67	0.00369	4.00	default	
BT_8DPSK	2402	3DH1	3.19	0.0021	3.45	0.00221	<0.125	2.28	5.73	0.00374	4.00	default	
		3DH3	3.20	0.0021	3.47	0.00222	<0.125	2.28	5.75	0.00376	4.00	default	
		3DH5	3.22	0.0021	3.48	0.00223	<0.125	2.28	5.76	0.00377	4.00	default	
	2441	3DH1	3.13	0.0021	3.44	0.00221	<0.125	2.28	5.72	0.00373	4.00	default	
		3DH3	3.14	0.0021	3.46	0.00222	<0.125	2.28	5.74	0.00375	4.00	default	
		3DH5	3.15	0.0021	3.47	0.00222	<0.125	2.28	5.75	0.00376	4.00	default	
	2480	3DH1	3.04	0.0020	3.38	0.00218	<0.125	2.28	5.66	0.00368	4.00	default	
		3DH3	3.06	0.0020	3.40	0.00219	<0.125	2.28	5.68	0.00370	4.00	default	
		3DH5	3.07	0.0020	3.41	0.00219	<0.125	2.28	5.69	0.00371	4.00	default	

Note: The relevant measured result has the offset with cable loss already.

20 dB Emission Bandwidth and 99 % Occupied Bandwidth Measurement

Test Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
BT_GFSK	2402	0.844	0.741
	2441	0.843	0.741
	2480	0.841	0.740
BT_8DPSK	2402	1.303	1.180
	2441	1.307	1.179
	2480	1.305	1.179

Carrier Frequency Separation Measurement

Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.970	≥ 0.563
	2441	0.986	≥ 0.562
	2480	0.996	≥ 0.561
BT_8DPSK	2402	1.158	≥ 0.869
	2441	0.964	≥ 0.871
	2480	1.164	≥ 0.870

Time of Occupancy (Dwell Time) Measurement		
Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	DH1	
BT_GFSK	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$800/79CH = 10.13 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 10.13 = 320.108 \text{ (times)}$
	Each Channel Dwell Times (2)	0.4083 ms
	Dwell Times on Cycle (1) * (2)	130.700 ms
	Limit (msec)	≤ 400
	DH3	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$400/79CH = 5.06 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 5.06 = 159.896 \text{ (times)}$
	Each Channel Dwell Times (2)	1.667 ms
	Dwell Times on Cycle (1) * (2)	266.547 ms
	Limit (msec)	≤ 400
	DH5	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$266.7/79CH = 3.38 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 3.38 = 106.808 \text{ (times)}$
	Each Channel Dwell Times (2)	2.920 ms
	Dwell Times on Cycle (1) * (2)	311.879 ms
	Limit (msec)	≤ 400

Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	3DH1	
BT_8DPSK	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$800/79CH = 10.13 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 10.13 = 320.108 \text{ (times)}$
	Each Channel Dwell Times (2)	0.4167 ms
	Dwell Times on Cycle (1) * (2)	133.389 ms
	Limit (msec)	≤ 400
	3DH3	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$400/79CH = 5.06 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 5.06 = 159.896 \text{ (times)}$
	Each Channel Dwell Times (2)	1.667 ms
	Dwell Times on Cycle (1) * (2)	266.547 ms
	Limit (msec)	≤ 400
	3DH5	
	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$266.7/79CH = 3.38 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 3.38 = 106.808 \text{ (times)}$
	Each Channel Dwell Times (2)	2.940 ms
	Dwell Times on Cycle (1) * (2)	314.016 ms
	Limit (msec)	≤ 400