

Appendix A. Test Data

Maximum Conducted Output Power Measurement								
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	RF Power setting in Test Software
			dBm	W	dBm	W		
BT_GFSK	2402	DH1	2.73	0.0019	3.66	0.00232	<0.125	6.00
		DH3	2.83	0.0019	3.67	0.00233	<0.125	6.00
		DH5	2.90	0.0019	3.69	0.00234	<0.125	6.00
	2441	DH1	2.94	0.0020	3.86	0.00243	<0.125	6.00
		DH3	3.04	0.0020	3.85	0.00243	<0.125	6.00
		DH5	3.09	0.0020	3.88	0.00244	<0.125	6.00
	2480	DH1	3.29	0.0021	4.19	0.00262	<0.125	6.00
		DH3	3.39	0.0022	4.17	0.00261	<0.125	6.00
		DH5	3.48	0.0022	4.20	0.00263	<0.125	6.00
BT_π/4-DQPSK	2402	2DH1	4.09	0.0026	6.65	0.00462	<0.125	7.00
		2DH3	3.82	0.0024	6.60	0.00457	<0.125	7.00
		2DH5	4.11	0.0026	6.69	0.00467	<0.125	7.00
	2441	2DH1	4.38	0.0027	6.99	0.00500	<0.125	7.00
		2DH3	4.15	0.0026	6.90	0.00490	<0.125	7.00
		2DH5	4.40	0.0028	7.02	0.00504	<0.125	7.00
	2480	2DH1	4.75	0.0030	7.30	0.00537	<0.125	7.00
		2DH3	4.52	0.0028	7.22	0.00527	<0.125	7.00
		2DH5	4.78	0.0030	7.32	0.00540	<0.125	7.00
BT_8DPSK	2402	3DH1	4.11	0.0026	6.72	0.00470	<0.125	7.00
		3DH3	3.90	0.0025	6.62	0.00459	<0.125	7.00
		3DH5	4.18	0.0026	6.78	0.00476	<0.125	7.00
	2441	3DH1	4.42	0.0028	6.99	0.00500	<0.125	7.00
		3DH3	4.19	0.0026	6.97	0.00498	<0.125	7.00
		3DH5	4.44	0.0028	7.07	0.00509	<0.125	7.00
	2480	3DH1	4.76	0.0030	7.34	0.00542	<0.125	7.00
		3DH3	4.55	0.0028	7.27	0.00533	<0.125	7.00
		3DH5	4.81	0.0030	7.36	0.00545	<0.125	7.00

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	0.864	0.761
	2441	0.865	0.762
	2480	0.864	0.762
BT_8DPSK	2402	1.255	1.145
	2441	1.254	1.144
	2480	1.254	1.145

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.990	≥ 0.576
	2441	0.998	≥ 0.576
	2480	0.998	≥ 0.576
BT_8DPSK	2402	1.326	≥ 0.836
	2441	0.990	≥ 0.836
	2480	1.318	≥ 0.836

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)	0.390 ms
	Dwell Times on Cycle (1) * (2)	124.842 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)	1.650 ms
	Dwell Times on Cycle (1) * (2)	263.828 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)	2.925 ms
	Dwell Times on Cycle (1) * (2)	312.413 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)	0.395 ms
	Dwell Times on Cycle (1) * (2)	126.443 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)	1.660 ms
	Dwell Times on Cycle (1) * (2)	265.427 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)	2.925 ms
	Dwell Times on Cycle (1) * (2)	312.413 ms
	Limit (msec)	≤ 400