

Appendix A. Test Data

Maximum Conducted Output Power Measurement								
Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	RF Power setting in Test Software
			dBm	W	dBm	W	W	
BT_GFSK	2402	DH1	8.63	0.00729	8.99	0.00793	<0.125	9.00
		DH3	8.67	0.00736	9.00	0.00794	<0.125	9.00
		DH5	8.75	0.00750	9.11	0.00815	<0.125	9.00
	2441	DH1	8.67	0.00736	8.99	0.00793	<0.125	9.00
		DH3	8.72	0.00745	9.03	0.00800	<0.125	9.00
		DH5	8.81	0.00760	9.13	0.00818	<0.125	9.00
	2480	DH1	8.65	0.00733	8.92	0.00780	<0.125	9.00
		DH3	8.69	0.00740	8.98	0.00791	<0.125	9.00
		DH5	8.78	0.00755	9.05	0.00804	<0.125	9.00
BT_π/4-DQPSK	2402	2DH1	6.14	0.00411	8.92	0.00780	<0.125	9.00
		2DH3	6.20	0.00417	8.95	0.00785	<0.125	9.00
		2DH5	6.47	0.00444	9.06	0.00805	<0.125	9.00
	2441	2DH1	6.18	0.00415	9.01	0.00796	<0.125	9.00
		2DH3	6.25	0.00422	9.03	0.00800	<0.125	9.00
		2DH5	6.50	0.00447	9.11	0.00815	<0.125	9.00
	2480	2DH1	6.36	0.00433	9.10	0.00813	<0.125	9.00
		2DH3	6.42	0.00439	9.13	0.00818	<0.125	9.00
		2DH5	6.69	0.00467	9.18	0.00828	<0.125	9.00
BT_8DPSK	2402	3DH1	6.26	0.00423	9.18	0.00828	<0.125	9.00
		3DH3	6.31	0.00428	9.25	0.00841	<0.125	9.00
		3DH5	6.59	0.00456	9.28	0.00847	<0.125	9.00
	2441	3DH1	6.29	0.00426	9.22	0.00836	<0.125	9.00
		3DH3	6.33	0.00430	9.23	0.00838	<0.125	9.00
		3DH5	6.63	0.00460	9.26	0.00843	<0.125	9.00
	2480	3DH1	6.47	0.00444	9.25	0.00841	<0.125	9.00
		3DH3	6.51	0.00448	9.26	0.00843	<0.125	9.00
		3DH5	6.80	0.00479	9.33	0.00857	<0.125	9.00

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

20 dB Emission Bandwidth and 99 % Occupied Bandwidth Measurement			
Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
BT_GFSK	2402	0.941	0.859
	2441	0.944	0.864
	2480	0.943	0.859
BT_8DPSK	2402	1.297	1.181
	2441	1.296	1.181
	2480	1.298	1.183

Carrier Frequency Separation Measurement			
Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.008	≥ 0.627
	2441	1.012	≥ 0.629
	2480	1.296	≥ 0.629
BT_8DPSK	2402	1.280	≥ 0.865
	2441	0.984	≥ 0.864
	2480	1.308	≥ 0.865

Time of Occupancy (Dwell Time) Measurement		
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)	0.4165 ms
	Dwell Times on Cycle (1) * (2)	133.325 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)	1.681 ms
	Dwell Times on Cycle (1) * (2)	268.785 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)	2.945 ms
	Dwell Times on Cycle (1) * (2)	314.550 ms
	Limit (msec)	≤ 400

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)	0.4224 ms
	Dwell Times on Cycle (1) * (2)	135.214 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)	1.681 ms
	Dwell Times on Cycle (1) * (2)	268.785 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)	2.962 ms
	Dwell Times on Cycle (1) * (2)	316.365 ms
	Limit (msec)	≤ 400