

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	W	
BT_GFSK	2402	DH1	13.13	0.0206	13.81	0.02404	<0.125	10.00
		DH3	13.12	0.0205	13.55	0.02265	<0.125	10.00
		DH5	13.25	0.0211	13.92	0.02466	<0.125	10.00
	2441	DH1	9.16	0.0082	12.08	0.01614	<0.125	10.00
		DH3	9.11	0.0081	11.89	0.01545	<0.125	10.00
		DH5	9.28	0.0085	12.16	0.01644	<0.125	10.00
	2480	DH1	8.96	0.0079	12.11	0.01626	<0.125	10.00
		DH3	8.83	0.0076	12.07	0.01611	<0.125	10.00
		DH5	9.00	0.0079	12.17	0.01648	<0.125	10.00
BT_π/4-DQPSK	2402	2DH1	9.31	0.0085	12.23	0.01671	<0.125	10.00
		2DH3	9.09	0.0081	12.16	0.01644	<0.125	10.00
		2DH5	9.39	0.0087	12.27	0.01687	<0.125	10.00
	2441	2DH1	8.88	0.0077	11.82	0.01521	<0.125	10.00
		2DH3	8.67	0.0074	11.73	0.01489	<0.125	10.00
		2DH5	9.03	0.0080	11.93	0.01560	<0.125	10.00
	2480	2DH1	8.62	0.0073	11.52	0.01419	<0.125	10.00
		2DH3	8.51	0.0071	11.44	0.01393	<0.125	10.00
		2DH5	8.70	0.0074	11.64	0.01459	<0.125	10.00
BT_8DPSK	2402	3DH1	9.33	0.0086	12.65	0.01841	<0.125	10.00
		3DH3	9.24	0.0084	12.48	0.01770	<0.125	10.00
		3DH5	9.42	0.0088	12.72	0.01871	<0.125	10.00
	2441	3DH1	8.93	0.0078	12.18	0.01652	<0.125	10.00
		3DH3	8.84	0.0077	12.01	0.01589	<0.125	10.00
		3DH5	9.05	0.0080	12.32	0.01706	<0.125	10.00
	2480	3DH1	8.68	0.0074	11.93	0.01560	<0.125	10.00
		3DH3	8.54	0.0072	11.79	0.01510	<0.125	10.00
		3DH5	8.73	0.0075	12.01	0.01589	<0.125	10.00

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	0.936	0.831
	2441	0.935	0.830
	2480	0.937	0.831
BT_8DPSK	2402	1.294	1.180
	2441	1.294	1.180
	2480	1.293	1.180

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.998	≥ 0.624
	2441	1.004	≥ 0.623
	2480	1.306	≥ 0.625
BT_8DPSK	2402	0.992	≥ 0.862
	2441	0.996	≥ 0.863
	2480	0.986	≥ 0.862

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)	0.400 ms
	Dwell Times on Cycle (1) * (2)	128.043 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)	1.660 ms
	Dwell Times on Cycle (1) * (2)	265.427 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)	0.405 ms
	Dwell Times on Cycle (1) * (2)	129.644 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)	1.670 ms
	Dwell Times on Cycle (1) * (2)	267.026 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