

Appendix A. Test Data

Maximum Conducted Output Power Measurement							
Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		RF Power setting in Test Software
			dBm	W	dBm	W	
BT_GFSK	2402	DH1	13.05	0.02018	13.18	0.02080	58
		DH3	13.08	0.02032	13.20	0.02089	58
		DH5	13.10	0.02042	13.25	0.02113	58
	2441	DH1	12.91	0.01954	13.11	0.02046	58
		DH3	12.95	0.01972	13.16	0.02070	58
		DH5	13.01	0.02000	13.19	0.02084	58
	2480	DH1	12.62	0.01828	12.78	0.01897	58
		DH3	12.65	0.01841	12.80	0.01905	58
		DH5	12.67	0.01849	12.83	0.01919	58
BT_π/4-DQPSK	2402	2DH1	10.22	0.01052	12.61	0.01824	58
		2DH3	10.26	0.01062	12.63	0.01832	58
		2DH5	10.31	0.01074	12.67	0.01849	58
	2441	2DH1	10.18	0.01042	12.53	0.01791	58
		2DH3	10.21	0.01050	12.58	0.01811	58
		2DH5	10.25	0.01059	12.61	0.01824	58
	2480	2DH1	9.74	0.00942	12.12	0.01629	58
		2DH3	9.78	0.00951	12.15	0.01641	58
		2DH5	9.80	0.00955	12.21	0.01663	58
BT_8DPSK	2402	3DH1	10.30	0.01072	12.71	0.01866	58
		3DH3	10.33	0.01079	12.74	0.01879	58
		3DH5	10.35	0.01084	12.78	0.01897	58
	2441	3DH1	10.18	0.01042	12.67	0.01849	58
		3DH3	10.22	0.01052	12.71	0.01866	58
		3DH5	10.29	0.01069	12.74	0.01879	58
	2480	3DH1	9.75	0.00944	12.28	0.01690	58
		3DH3	9.81	0.00957	12.34	0.01714	58
		3DH5	9.85	0.00966	12.38	0.01730	58

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	0.9721	0.88997
	2441	0.9718	0.89072
	2480	0.9706	0.89064
BT_8DPSK	2402	1.282	1.1629
	2441	1.281	1.1626
	2480	1.280	1.1619

Carrier Frequency Separation Measurement			
Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.992	≥ 0.648
	2441	1.322	≥ 0.648
	2480	0.990	≥ 0.647
BT_8DPSK	2402	0.994	≥ 0.855
	2441	0.982	≥ 0.854
	2480	1.014	≥ 0.853

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)	0.410 ms
	Dwell Times on Cycle (1) * (2)	131.244 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)	2.920 ms
	Dwell Times on Cycle (1) * (2)	311.879 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)	0.410 ms
	Dwell Times on Cycle (1) * (2)	131.244 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)	2.920 ms
	Dwell Times on Cycle (1) * (2)	311.879 ms
	Limit (msec)	≤ 400