

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	-0.25	0.0009	0.53	0.00113	<0.125	6.00
		DH3	-0.08	0.0010	0.55	0.00114	<0.125	6.00
		DH5	-0.10	0.0010	0.52	0.00113	<0.125	6.00
	2441	DH1	-0.65	0.0009	0.15	0.00104	<0.125	6.00
		DH3	-0.47	0.0009	0.19	0.00104	<0.125	6.00
		DH5	-0.47	0.0009	0.16	0.00104	<0.125	6.00
	2480	DH1	-1.10	0.0008	-0.27	0.00094	<0.125	6.00
		DH3	-0.92	0.0008	-0.25	0.00094	<0.125	6.00
		DH5	-0.91	0.0008	-0.22	0.00095	<0.125	6.00
BT_π/4-DQPSK	2402	2DH1	1.56	0.0014	4.30	0.00269	<0.125	7.00
		2DH3	1.60	0.0014	4.33	0.00271	<0.125	7.00
		2DH5	1.57	0.0014	4.28	0.00268	<0.125	7.00
	2441	2DH1	1.20	0.0013	3.99	0.00251	<0.125	7.00
		2DH3	1.24	0.0013	3.99	0.00251	<0.125	7.00
		2DH5	1.22	0.0013	3.96	0.00249	<0.125	7.00
	2480	2DH1	0.79	0.0012	3.64	0.00231	<0.125	7.00
		2DH3	0.83	0.0012	3.60	0.00229	<0.125	7.00
		2DH5	0.81	0.0012	3.55	0.00226	<0.125	7.00
BT_8DPSK	2402	3DH1	1.54	0.0014	4.73	0.00297	<0.125	7.00
		3DH3	1.62	0.0015	4.74	0.00298	<0.125	7.00
		3DH5	1.56	0.0014	4.66	0.00292	<0.125	7.00
	2441	3DH1	1.19	0.0013	4.39	0.00275	<0.125	7.00
		3DH3	1.23	0.0013	4.41	0.00276	<0.125	7.00
		3DH5	1.19	0.0013	4.28	0.00268	<0.125	7.00
	2480	3DH1	0.77	0.0012	4.04	0.00254	<0.125	7.00
		3DH3	0.82	0.0012	4.02	0.00252	<0.125	7.00
		3DH5	0.80	0.0012	3.93	0.00247	<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	0.941	0.842
	2441	0.940	0.841
	2480	0.939	0.841
BT_8DPSK	2402	1.299	1.183
	2441	1.299	1.184
	2480	1.299	1.183

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.676	≥ 0.627
	2441	0.998	≥ 0.627
	2480	1.302	≥ 0.626
BT_8DPSK	2402	1.000	≥ 0.866
	2441	1.014	≥ 0.866
	2480	1.008	≥ 0.866

Time of Occupancy (Dwell Time) Measurement		
Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	DH1	
BT_GFSK	Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$800/79\text{CH} = 10.13 \text{ (times/sec)}$
	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
	DH3	
	Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$400/79\text{CH} = 5.06 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 5.06 = 159.896 \text{ (times)}$
	Each Channel Dwell Times (2)	1.665 ms
	Dwell Times on Cycle (1) * (2)	266.227 ms
	Limit (msec)	≤ 400
	DH5	
	Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$266.7/79\text{CH} = 3.38 \text{ (times/sec)}$
	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

Average Time of Occupancy (Dwell Time) Measurement		
Test Mode	3DH1	
	3DH1	
BT_8DPSK	Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$800/79\text{CH} = 10.13 \text{ (times/sec)}$
	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	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$400/79\text{CH} = 5.06 \text{ (times/sec)}$
	Each Channel Dwell Times on Cycle(1)	$31.6 * 5.06 = 159.896 \text{ (times)}$
	Each Channel Dwell Times (2)	1.665 ms
	Dwell Times on Cycle (1) * (2)	266.227 ms
	Limit (msec)	≤ 400
	3DH5	
	Cycle Calculate	$79\text{CH} * 0.4 = 31.6 \text{ (sec)}$
	The EUT Hopping Number per Sec	1600 times/sec
	Each Channel Dwell Times per Sec	$266.7/79\text{CH} = 3.38 \text{ (times/sec)}$
	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