

Appendix A. Test Data

Maximum Conducted Output Power Measurement										
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	Gain	RF Power setting in Test Software	Test Software Version
			dBm	W	dBm	W	W	dBi		
BT_GFSK	2402	DH1	10.29	0.0107	10.46	0.01112	<0.125	2	Default	QRCT 3.0.244.0
		DH3	10.31	0.0107	10.49	0.01119	<0.125	2	Default	
		DH5	10.34	0.0108	10.52	0.01127	<0.125	2	Default	
	2441	DH1	9.82	0.0096	9.98	0.00995	<0.125	2	Default	
		DH3	9.84	0.0096	10.01	0.01002	<0.125	2	Default	
		DH5	9.86	0.0097	10.03	0.01007	<0.125	2	Default	
	2480	DH1	9.81	0.0096	9.98	0.00995	<0.125	2	Default	
		DH3	9.84	0.0096	10.01	0.01002	<0.125	2	Default	
		DH5	9.86	0.0097	10.03	0.01007	<0.125	2	Default	
BT_π/4-DQPSK	2402	2DH1	8.29	0.0067	10.43	0.01104	<0.125	2	Default	
		2DH3	8.35	0.0068	10.48	0.01117	<0.125	2	Default	
		2DH5	8.38	0.0069	10.50	0.01122	<0.125	2	Default	
	2441	2DH1	7.78	0.0060	9.96	0.00991	<0.125	2	Default	
		2DH3	7.83	0.0061	10.01	0.01002	<0.125	2	Default	
		2DH5	7.89	0.0062	10.03	0.01007	<0.125	2	Default	
	2480	2DH1	7.85	0.0061	9.99	0.00998	<0.125	2	Default	
		2DH3	7.87	0.0061	10.01	0.01002	<0.125	2	Default	
		2DH5	7.91	0.0062	10.06	0.01014	<0.125	2	Default	
BT_8DPSK	2402	3DH1	8.34	0.0068	10.73	0.01183	<0.125	2	Default	
		3DH3	8.36	0.0069	10.75	0.01189	<0.125	2	Default	
		3DH5	8.42	0.0070	10.84	0.01213	<0.125	2	Default	
	2441	3DH1	7.82	0.0061	10.27	0.01064	<0.125	2	Default	
		3DH3	7.89	0.0062	10.32	0.01076	<0.125	2	Default	
		3DH5	7.93	0.0062	10.36	0.01086	<0.125	2	Default	
	2480	3DH1	7.86	0.0061	10.24	0.01057	<0.125	2	Default	
		3DH3	7.89	0.0062	10.29	0.01069	<0.125	2	Default	
		3DH5	7.95	0.0062	10.37	0.01089	<0.125	2	Default	

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

20 dB Emission Bandwidth Measurement

Test Mode	Frequency (MHz)	20 dB RF Bandwidth (MHz)
BT_GFSK	2402	1.032
	2441	1.027
	2480	1.009
BT_8DPSK	2402	1.288
	2441	1.309
	2480	1.303

Carrier Frequency Separation Measurement

Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.008	≥ 0.688
	2441	1.300	≥ 0.685
	2480	0.980	≥ 0.673
BT_8DPSK	2402	1.004	≥ 0.859
	2441	0.990	≥ 0.873
	2480	1.012	≥ 0.869

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)	0.4107 ms
	Dwell Times on Cycle (1) * (2)	131.468 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)	1.692 ms
	Dwell Times on Cycle (1) * (2)	270.544 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

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