

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	Test Software Version
			dBm	W	dBm	W			
BT_GFSK	2402	DH1	9.59	0.0091	9.67	0.00927	<0.125	Default	Putty
		DH3	9.60	0.0091	9.68	0.00929	<0.125	Default	
		DH5	9.61	0.0091	9.69	0.00931	<0.125	Default	
	2441	DH1	10.33	0.0108	10.40	0.01096	<0.125	Default	
		DH3	10.38	0.0109	10.46	0.01112	<0.125	Default	
		DH5	10.54	0.0113	10.63	0.01156	<0.125	Default	
	2480	DH1	10.73	0.0118	10.81	0.01205	<0.125	Default	
		DH3	10.80	0.0120	10.87	0.01222	<0.125	Default	
		DH5	10.89	0.0123	10.97	0.01250	<0.125	Default	
BT_π/4-DQPSK	2402	2DH1	6.53	0.0045	9.18	0.00828	<0.125	Default	
		2DH3	6.61	0.0046	9.23	0.00838	<0.125	Default	
		2DH5	6.63	0.0046	9.30	0.00851	<0.125	Default	
	2441	2DH1	7.47	0.0056	10.10	0.01023	<0.125	Default	
		2DH3	7.58	0.0057	10.14	0.01033	<0.125	Default	
		2DH5	7.67	0.0058	10.18	0.01042	<0.125	Default	
	2480	2DH1	7.72	0.0059	10.25	0.01059	<0.125	Default	
		2DH3	7.85	0.0061	10.35	0.01084	<0.125	Default	
		2DH5	7.95	0.0062	10.39	0.01094	<0.125	Default	
BT_8DPSK	2402	3DH1	6.55	0.0045	9.40	0.00871	<0.125	Default	
		3DH3	6.64	0.0046	9.41	0.00873	<0.125	Default	
		3DH5	6.66	0.0046	9.48	0.00887	<0.125	Default	
	2441	3DH1	7.49	0.0056	10.29	0.01069	<0.125	Default	
		3DH3	7.59	0.0057	10.34	0.01081	<0.125	Default	
		3DH5	7.69	0.0059	10.38	0.01091	<0.125	Default	
	2480	3DH1	7.75	0.0060	10.43	0.01104	<0.125	Default	
		3DH3	7.88	0.0061	10.53	0.01130	<0.125	Default	
		3DH5	7.97	0.0063	10.59	0.01146	<0.125	Default	

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	0.947	0.884
	2441	1.002	0.900
	2480	1.044	0.902
BT_8DPSK	2402	1.340	1.216
	2441	1.340	1.215
	2480	1.340	1.217

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	1.010	≥ 0.631
	2441	0.990	≥ 0.668
	2480	1.010	≥ 0.696
BT_8DPSK	2402	1.000	≥ 0.893
	2441	0.980	≥ 0.893
	2480	1.034	≥ 0.893

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)	0.4165 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)	1.703 ms
	Dwell Times on Cycle (1) * (2)	272.303 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)	2.979 ms
	Dwell Times on Cycle (1) * (2)	318.181 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)	0.4224 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)	1.692 ms
	Dwell Times on Cycle (1) * (2)	270.544 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