

Appendix A. Test Data

Maximum Conducted Output Power Measurement													
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Average Power		Peak Power		Power Limit	RF Power setting in Test Software	Test Software Version
			dBm	W	dBm	W	dBm	W	dBm	W			
			ANT-10		ANT-10		ANT-9		ANT-9		W		
BT_GFSK	2402	DH1	11.83	0.0152	12.02	0.01592	13.54	0.02259	13.81	0.02404	<0.125	9.00	QRCT 4.0.209.0
		DH3	11.87	0.0154	12.05	0.01603	13.56	0.02270	13.83	0.02415	<0.125	9.00	
		DH5	11.93	0.0156	12.13	0.01633	13.62	0.02301	13.93	0.02472	<0.125	9.00	
	2441	DH1	11.95	0.0157	12.15	0.01641	13.45	0.02213	13.74	0.02366	<0.125	9.00	
		DH3	11.98	0.0158	12.18	0.01652	13.46	0.02218	13.76	0.02377	<0.125	9.00	
		DH5	12.06	0.0161	12.26	0.01683	13.52	0.02249	13.81	0.02404	<0.125	9.00	
	2480	DH1	12.02	0.0159	12.21	0.01663	13.74	0.02366	13.99	0.02506	<0.125	9.00	
		DH3	12.04	0.0160	12.23	0.01671	13.75	0.02371	14.02	0.02523	<0.125	9.00	
		DH5	12.12	0.0163	12.43	0.01750	13.80	0.02399	14.07	0.02553	<0.125	9.00	
BT_π/4-DQPSK	2402	2DH1	8.53	0.0071	11.19	0.01315	10.46	0.01112	13.04	0.02014	<0.125	9.00	
		2DH3	8.56	0.0072	11.20	0.01318	10.48	0.01117	13.05	0.02018	<0.125	9.00	
		2DH5	8.77	0.0075	11.31	0.01352	10.74	0.01186	13.11	0.02046	<0.125	9.00	
	2441	2DH1	8.69	0.0074	11.34	0.01361	10.30	0.01072	12.98	0.01986	<0.125	9.00	
		2DH3	8.74	0.0075	11.42	0.01387	10.34	0.01081	13.00	0.01995	<0.125	9.00	
		2DH5	8.94	0.0078	11.45	0.01396	10.57	0.01140	13.04	0.02014	<0.125	9.00	
	2480	2DH1	8.78	0.0076	11.43	0.01390	10.64	0.01159	13.26	0.02118	<0.125	9.00	
		2DH3	8.85	0.0077	11.45	0.01396	10.68	0.01169	13.28	0.02128	<0.125	9.00	
		2DH5	9.06	0.0081	11.50	0.01413	10.95	0.01245	13.31	0.02143	<0.125	9.00	

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)
		ANT-9	ANT-9
BT_GFSK	2402	0.938	0.833
	2441	0.938	0.834
	2480	0.937	0.834
BT_π/4-DQPSK	2402	1.305	1.179
	2441	1.287	1.180
	2480	1.287	1.178

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
		ANT-9	
BT_GFSK	2402	0.992	≥ 0.625
	2441	1.010	≥ 0.625
	2480	0.996	≥ 0.624
BT_π/4-DQPSK	2402	1.320	≥ 0.870
	2441	0.978	≥ 0.858
	2480	0.936	≥ 0.858

Time of Occupancy (Dwell Time) Measurement		
Test Mode	Average Time of Occupancy (Dwell Time) Measurement (ANT-9)	
	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)	0.3989 ms
	Dwell Times on Cycle (1) * (2)	127.691 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)	1.668 ms
	Dwell Times on Cycle (1) * (2)	266.707 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)	2.993 ms
	Dwell Times on Cycle (1) * (2)	319.676 ms
	Limit (msec)	≤ 400

Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	2DH1	
BT_π/4-DQPSK	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
	2DH3	
	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)	1.668 ms
	Dwell Times on Cycle (1) * (2)	266.707 ms
	Limit (msec)	≤ 400
	2DH5	
	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)	2.958 ms
	Dwell Times on Cycle (1) * (2)	315.938 ms
	Limit (msec)	≤ 400