

Appendix A. Test Data

Maximum Conducted Output Power Measurement													
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	Gain	EIRP Power		EIRP Power Limit	RF Power setting in Test Software	Test Software Version
			dBm	W	dBm	W	W	dB	dBm	W	W		
BT_GFSK	2402	DH1	0.90	0.0012	1.25	0.00133	<0.125	1.87	3.12	0.00205	4.00	4.00	ADB
		DH3	0.92	0.0012	1.28	0.00134	<0.125	1.87	3.15	0.00207	4.00	4.00	
		DH5	1.01	0.0013	1.36	0.00137	<0.125	1.87	3.23	0.00210	4.00	4.00	
	2441	DH1	1.68	0.0015	2.01	0.00159	<0.125	1.87	3.88	0.00244	4.00	4.00	
		DH3	1.69	0.0015	2.02	0.00159	<0.125	1.87	3.89	0.00245	4.00	4.00	
		DH5	1.74	0.0015	2.06	0.00161	<0.125	1.87	3.93	0.00247	4.00	4.00	
	2480	DH1	1.77	0.0015	2.11	0.00163	<0.125	1.87	3.98	0.00250	4.00	4.00	
		DH3	1.79	0.0015	2.13	0.00163	<0.125	1.87	4.00	0.00251	4.00	4.00	
		DH5	1.82	0.0015	2.16	0.00164	<0.125	1.87	4.03	0.00253	4.00	4.00	
BT_π/4-DQPSK	2402	2DH1	-1.38	0.0007	1.23	0.00133	<0.125	1.87	3.10	0.00204	4.00	4.00	
		2DH3	-1.25	0.0007	1.32	0.00136	<0.125	1.87	3.19	0.00208	4.00	4.00	
		2DH5	-0.33	0.0009	1.42	0.00139	<0.125	1.87	3.29	0.00213	4.00	4.00	
	2441	2DH1	-0.57	0.0009	2.07	0.00161	<0.125	1.87	3.94	0.00248	4.00	4.00	
		2DH3	-0.51	0.0009	2.08	0.00161	<0.125	1.87	3.95	0.00248	4.00	4.00	
		2DH5	0.56	0.0011	2.18	0.00165	<0.125	1.87	4.05	0.00254	4.00	4.00	
	2480	2DH1	-0.48	0.0009	2.14	0.00164	<0.125	1.87	4.01	0.00252	4.00	4.00	
		2DH3	-0.43	0.0009	2.15	0.00164	<0.125	1.87	4.02	0.00252	4.00	4.00	
		2DH5	0.66	0.0012	2.27	0.00169	<0.125	1.87	4.14	0.00259	4.00	4.00	
BT_8DPSK	2402	3DH1	-1.22	0.0008	1.51	0.00142	<0.125	1.87	3.38	0.00218	4.00	4.00	
		3DH3	-1.19	0.0008	1.63	0.00146	<0.125	1.87	3.50	0.00224	4.00	4.00	
		3DH5	-0.31	0.0009	1.64	0.00146	<0.125	1.87	3.51	0.00224	4.00	4.00	
	2441	3DH1	-0.55	0.0009	2.29	0.00169	<0.125	1.87	4.16	0.00261	4.00	4.00	
		3DH3	-0.48	0.0009	2.30	0.00170	<0.125	1.87	4.17	0.00261	4.00	4.00	
		3DH5	0.58	0.0011	2.41	0.00174	<0.125	1.87	4.28	0.00268	4.00	4.00	
	2480	3DH1	-0.46	0.0009	2.33	0.00171	<0.125	1.87	4.20	0.00263	4.00	4.00	
		3DH3	-0.41	0.0009	2.37	0.00173	<0.125	1.87	4.24	0.00265	4.00	4.00	
		3DH5	0.68	0.0012	2.51	0.00178	<0.125	1.87	4.38	0.00274	4.00	4.00	

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	0.847	0.741
	2441	0.847	0.742
	2480	0.848	0.741
BT_8DPSK	2402	1.259	1.142
	2441	1.259	1.142
	2480	1.259	1.142

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.990	≥ 0.564
	2441	1.006	≥ 0.565
	2480	0.998	≥ 0.565
BT_8DPSK	2402	1.004	≥ 0.839
	2441	1.004	≥ 0.839
	2480	1.002	≥ 0.839

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)	0.410 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)	1.670 ms
	Dwell Times on Cycle (1) * (2)	267.026 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)	2.925 ms
	Dwell Times on Cycle (1) * (2)	312.413 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)	0.420 ms
	Dwell Times on Cycle (1) * (2)	134.445 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)	1.680 ms
	Dwell Times on Cycle (1) * (2)	268.625 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)	2.925 ms
	Dwell Times on Cycle (1) * (2)	312.413 ms
	Limit (msec)	≤ 400