

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-0		ANT-0		ANT-1		ANT-1				
BT_GFSK	2402	DH1	0.41	0.0011	1.04	0.00127	2.40	0.00174	2.96	0.00198	<0.125	7.00	ADB command
		DH3	0.54	0.0011	1.06	0.00128	2.50	0.00178	3.02	0.00200	<0.125	7.00	
		DH5	0.65	0.0012	1.09	0.00129	2.59	0.00181	3.07	0.00203	<0.125	7.00	
	2441	DH1	0.85	0.0012	1.42	0.00139	3.27	0.00212	3.88	0.00244	<0.125	7.00	
		DH3	0.96	0.0012	1.47	0.00140	3.33	0.00215	3.91	0.00246	<0.125	7.00	
		DH5	1.45	0.0014	1.49	0.00141	3.47	0.00222	3.94	0.00248	<0.125	7.00	
	2480	DH1	0.13	0.0010	0.73	0.00118	2.37	0.00173	2.96	0.00198	<0.125	7.00	
		DH3	0.24	0.0011	0.74	0.00119	2.41	0.00174	2.97	0.00198	<0.125	7.00	
		DH5	0.33	0.0011	0.76	0.00119	2.50	0.00178	3.01	0.00200	<0.125	7.00	
BT_π/4-DQPSK	2402	2DH1	0.88	0.0012	3.51	0.00224	2.63	0.00183	5.36	0.00344	<0.125	7.00	
		2DH3	0.91	0.0012	3.53	0.00225	2.71	0.00186	5.41	0.00348	<0.125	7.00	
		2DH5	0.94	0.0012	3.56	0.00227	2.77	0.00189	5.43	0.00349	<0.125	7.00	
	2441	2DH1	1.20	0.0013	3.86	0.00243	3.46	0.00222	6.17	0.00414	<0.125	7.00	
		2DH3	1.25	0.0013	3.87	0.00244	3.46	0.00222	6.23	0.00420	<0.125	7.00	
		2DH5	1.34	0.0014	3.89	0.00245	3.46	0.00222	6.25	0.00422	<0.125	7.00	
	2480	2DH1	0.52	0.0011	3.20	0.00209	2.61	0.00183	5.22	0.00333	<0.125	7.00	
		2DH3	0.56	0.0011	3.21	0.00209	2.64	0.00184	5.28	0.00337	<0.125	7.00	
		2DH5	0.59	0.0011	3.23	0.00210	2.74	0.00188	5.32	0.00340	<0.125	7.00	
BT_8DPSK	2402	3DH1	0.90	0.0012	3.73	0.00236	2.78	0.00190	5.67	0.00369	<0.125	7.00	
		3DH3	0.92	0.0012	3.76	0.00238	2.82	0.00191	5.70	0.00372	<0.125	7.00	
		3DH5	1.00	0.0013	3.79	0.00239	2.89	0.00195	5.76	0.00377	<0.125	7.00	
	2441	3DH1	1.23	0.0013	4.11	0.00258	3.42	0.00220	6.48	0.00445	<0.125	7.00	
		3DH3	1.28	0.0013	4.13	0.00259	3.42	0.00220	6.52	0.00449	<0.125	7.00	
		3DH5	1.40	0.0014	4.16	0.00261	3.42	0.00220	6.55	0.00452	<0.125	7.00	
	2480	3DH1	0.57	0.0011	3.35	0.00216	2.66	0.00185	5.61	0.00364	<0.125	7.00	
		3DH3	0.59	0.0011	3.39	0.00218	2.70	0.00186	5.61	0.00364	<0.125	7.00	
		3DH5	0.63	0.0012	3.45	0.00221	2.77	0.00189	5.64	0.00366	<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)
		ANT-1	ANT-1
BT_GFSK	2402	0.938	0.833
	2441	0.938	0.833
	2480	0.938	0.832
BT_8DPSK	2402	1.295	1.179
	2441	1.294	1.178
	2480	1.294	1.178

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
		ANT-1	
BT_GFSK	2402	1.000	≥ 0.626
	2441	1.000	≥ 0.625
	2480	1.006	≥ 0.626
BT_8DPSK	2402	0.992	≥ 0.863
	2441	1.006	≥ 0.863
	2480	1.016	≥ 0.863

Time of Occupancy (Dwell Time) Measurement		
Test Mode	Average Time of Occupancy (Dwell Time) Measurement (ANT-1)	
	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)	0.3982 ms
	Dwell Times on Cycle (1) * (2)	127.467 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)	1.674 ms
	Dwell Times on Cycle (1) * (2)	267.666 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)	2.909 ms
	Dwell Times on Cycle (1) * (2)	310.704 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)	0.4042 ms
	Dwell Times on Cycle (1) * (2)	129.388 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)	1.664 ms
	Dwell Times on Cycle (1) * (2)	266.067 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)	2.924 ms
	Dwell Times on Cycle (1) * (2)	312.307 ms
	Limit (msec)	$< = 400$