

Appendix A. Test Data Right

Maximum Conducted Output Power Measurement								
Test Mode	Frequency (MHz)	Packet Type	Average Power		Peak Power		Power Limit	RF Power setting in Test Software
			dBm	W	dBm	W	W	
BT_GFSK	2402	DH1	6.45	0.0044	6.81	0.00480	<0.125	0x00
		DH3	6.50	0.0045	6.82	0.00481	<0.125	0x00
		DH5	6.57	0.0045	6.83	0.00482	<0.125	0x00
	2441	DH1	6.14	0.0041	6.51	0.00448	<0.125	0x00
		DH3	6.22	0.0042	6.51	0.00448	<0.125	0x00
		DH5	6.26	0.0042	6.53	0.00450	<0.125	0x00
	2480	DH1	6.40	0.0044	6.74	0.00472	<0.125	0x00
		DH3	6.45	0.0044	6.75	0.00473	<0.125	0x00
		DH5	6.50	0.0045	6.77	0.00475	<0.125	0x00
BT_π/4-DQPSK	2402	2DH1	6.20	0.0042	7.70	0.00589	<0.125	0x00
		2DH3	6.19	0.0042	7.69	0.00587	<0.125	0x00
		2DH5	6.22	0.0042	7.71	0.00590	<0.125	0x00
	2441	2DH1	5.86	0.0039	7.39	0.00548	<0.125	0x00
		2DH3	5.88	0.0039	7.40	0.00550	<0.125	0x00
		2DH5	5.91	0.0039	7.41	0.00551	<0.125	0x00
	2480	2DH1	6.16	0.0041	7.66	0.00583	<0.125	0x00
		2DH3	6.14	0.0041	7.65	0.00582	<0.125	0x00
		2DH5	6.17	0.0041	7.67	0.00585	<0.125	0x00
BT_8DPSK	2402	3DH1	6.23	0.0042	7.75	0.00596	<0.125	0x00
		3DH3	6.24	0.0042	7.77	0.00598	<0.125	0x00
		3DH5	6.28	0.0042	7.79	0.00601	<0.125	0x00
	2441	3DH1	5.95	0.0039	7.43	0.00553	<0.125	0x00
		3DH3	5.95	0.0039	7.44	0.00555	<0.125	0x00
		3DH5	5.99	0.0040	7.48	0.00560	<0.125	0x00
	2480	3DH1	6.19	0.0042	7.66	0.00583	<0.125	0x00
		3DH3	6.20	0.0042	7.69	0.00587	<0.125	0x00
		3DH5	6.23	0.0042	7.73	0.00593	<0.125	0x00

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	0.9247	0.87069
	2441	0.9270	0.87034
	2480	0.9227	0.87458
BT_8DPSK	2402	1.266	1.2194
	2441	1.268	1.2208
	2480	1.266	1.2207

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.994	≥ 0.616
	2441	1.000	≥ 0.618
	2480	1.002	≥ 0.615
BT_8DPSK	2402	1.166	≥ 0.844
	2441	1.010	≥ 0.845
	2480	0.994	≥ 0.844

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)	0.491 ms
	Dwell Times on Cycle (1) * (2)	157.173 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)	1.754 ms
	Dwell Times on Cycle (1) * (2)	280.458 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)	2.999 ms
	Dwell Times on Cycle (1) * (2)	320.317 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)	0.504 ms
	Dwell Times on Cycle (1) * (2)	161.334 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)	1.784 ms
	Dwell Times on Cycle (1) * (2)	285.254 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)	3.014 ms
	Dwell Times on Cycle (1) * (2)	321.919 ms
	Limit (msec)	≤ 400

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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	7.40	0.0055	7.73	0.00593	<0.125	0x00	AWBTRDLAB/1.0.3.1
		DH3	7.44	0.0055	7.72	0.00592	<0.125	0x00	
		DH5	7.48	0.0056	7.75	0.00596	<0.125	0x00	
	2441	DH1	7.36	0.0054	7.68	0.00586	<0.125	0x00	
		DH3	7.41	0.0055	7.67	0.00585	<0.125	0x00	
		DH5	7.45	0.0056	7.71	0.00590	<0.125	0x00	
	2480	DH1	7.55	0.0057	7.79	0.00601	<0.125	0x00	
		DH3	7.60	0.0058	7.82	0.00605	<0.125	0x00	
		DH5	7.64	0.0058	7.86	0.00611	<0.125	0x00	
BT_π/4-DQPSK	2402	2DH1	7.17	0.0052	8.85	0.00767	<0.125	0x00	
		2DH3	7.19	0.0052	8.88	0.00773	<0.125	0x00	
		2DH5	7.22	0.0053	8.91	0.00778	<0.125	0x00	
	2441	2DH1	7.09	0.0051	8.76	0.00752	<0.125	0x00	
		2DH3	7.12	0.0052	8.80	0.00759	<0.125	0x00	
		2DH5	7.14	0.0052	8.83	0.00764	<0.125	0x00	
	2480	2DH1	7.19	0.0052	8.81	0.00760	<0.125	0x00	
		2DH3	7.27	0.0053	8.86	0.00769	<0.125	0x00	
		2DH5	7.28	0.0053	8.92	0.00780	<0.125	0x00	
BT_8DPSK	2402	3DH1	7.18	0.0052	8.91	0.00778	<0.125	0x00	
		3DH3	7.21	0.0053	8.92	0.00780	<0.125	0x00	
		3DH5	7.24	0.0053	8.95	0.00785	<0.125	0x00	
	2441	3DH1	7.12	0.0051	8.79	0.00757	<0.125	0x00	
		3DH3	7.17	0.0052	8.81	0.00760	<0.125	0x00	
		3DH5	7.18	0.0052	8.86	0.00769	<0.125	0x00	
	2480	3DH1	7.25	0.0053	8.98	0.00791	<0.125	0x00	
		3DH3	7.33	0.0054	9.01	0.00796	<0.125	0x00	
		3DH5	7.39	0.0055	9.03	0.00800	<0.125	0x00	

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	0.8681	0.87058
	2441	0.9269	0.87273
	2480	0.9270	0.87298
BT_8DPSK	2402	1.265	1.2066
	2441	1.267	1.2077
	2480	1.265	1.2076

Carrier Frequency Separation Measurement			
Test Mode	Frequency (MHz)	Measurement (MHz)	Limit (MHz)
BT_GFSK	2402	0.998	≥ 0.579
	2441	0.996	≥ 0.618
	2480	0.994	≥ 0.618
BT_8DPSK	2402	1.000	≥ 0.843
	2441	0.998	≥ 0.845
	2480	0.994	≥ 0.844

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)	0.486 ms
	Dwell Times on Cycle (1) * (2)	155.572 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)	1.764 ms
	Dwell Times on Cycle (1) * (2)	282.057 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)	3.014 ms
	Dwell Times on Cycle (1) * (2)	321.919 ms
	Limit (msec)	≤ 400

Test Mode	Average Time of Occupancy (Dwell Time) Measurement	
	3DH1	
BT_8DPSK	Cycle Calculate	$79CH * 0.4 = 31.6 \text{ (sec)}$
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	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)	3.015 ms
	Dwell Times on Cycle (1) * (2)	322.026 ms
	Limit (msec)	≤ 400