

Report Number : FR672014-01C

Test Engineer:	Bill Kuo	Temperature:	21~25	°C
Test Date:	2016/07/05~2016/07/28	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band										
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	12.30	12.05	9.08	9.08	0.50	Pass
11b	1Mbps	1	6	2437	12.05	12.05	9.04	9.08	0.50	Pass
11b	1Mbps	1	11	2462	11.95	12.05	8.56	9.08	0.50	Pass
11g	6Mbps	1	1	2412	18.70	18.30	16.40	16.36	0.50	Pass
11g	6Mbps	1	6	2437	18.95	18.60	16.40	16.36	0.50	Pass
11g	6Mbps	1	11	2462	18.50	18.45	16.16	16.40	0.50	Pass
11b	1Mbps	2	1	2412	11.90	11.90	9.00	8.54	0.50	Pass
11b	1Mbps	2	6	2437	11.85	11.85	9.02	9.04	0.50	Pass
11b	1Mbps	2	11	2462	11.90	11.90	8.54	9.02	0.50	Pass
11g	6Mbps	2	1	2412	18.25	17.80	16.36	16.30	0.50	Pass
11g	6Mbps	2	6	2437	18.70	18.15	16.34	16.28	0.50	Pass
11g	6Mbps	2	11	2462	18.85	18.05	16.04	16.32	0.50	Pass
HT20	MCS0	2	1	2412	19.35	18.95	17.32	17.60	0.50	Pass
HT20	MCS0	2	6	2437	19.75	19.25	17.64	17.64	0.50	Pass
HT20	MCS0	2	11	2462	19.10	19.05	17.20	17.64	0.50	Pass
HT40	MCS0	2	3	2422	36.70	36.60	35.76	36.40	0.50	Pass
HT40	MCS0	2	6	2437	36.80	36.80	36.40	36.40	0.50	Pass
HT40	MCS0	2	9	2452	36.40	36.60	35.68	36.36	0.50	Pass
VHT20	MCS0	2	1	2412	19.25	18.95	17.32	17.62	0.50	Pass
VHT20	MCS0	2	6	2437	19.75	19.20	17.64	17.64	0.50	Pass
VHT20	MCS0	2	11	2462	19.15	18.95	17.20	17.64	0.50	Pass
VHT40	MCS0	2	3	2422	36.60	36.70	35.80	36.40	0.50	Pass
VHT40	MCS0	2	6	2437	36.90	36.70	36.40	36.40	0.50	Pass
VHT40	MCS0	2	9	2452	36.50	36.70	35.52	36.40	0.50	Pass

**TEST RESULTS DATA**  
**Peak Output Power**

2.4GHz Band											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2
11b	1Mbps	1	1	2412	21.31	21.94		2.50	1.79	23.81	23.73
11b	1Mbps	1	2	2417	21.33	21.95		2.50	1.79	23.83	23.74
11b	1Mbps	1	6	2437	21.73	22.06		2.50	1.79	24.23	23.85
11b	1Mbps	1	10	2457	21.75	22.10		2.50	1.79	24.25	23.89
11b	1Mbps	1	11	2462	22.08	21.83		2.50	1.79	24.58	23.62
11g	6Mbps	1	1	2412	21.79	21.49		2.50	1.79	24.29	23.28
11g	6Mbps	1	2	2417	22.75	23.48		2.50	1.79	25.25	25.27
11g	6Mbps	1	6	2437	23.20	23.68		2.50	1.79	25.70	25.47
11g	6Mbps	1	10	2457	23.11	23.70		2.50	1.79	25.61	25.49
11g	6Mbps	1	11	2462	23.09	22.99		2.50	1.79	25.59	24.78
HT20	MCS0	1	1	2412	19.92	20.46		2.50	1.79	22.42	22.25
HT20	MCS0	1	2	2417	23.22	23.41		2.50	1.79	25.72	25.2
HT20	MCS0	1	6	2437	23.36	23.90		2.50	1.79	25.86	25.69
HT20	MCS0	1	10	2457	22.69	23.06		2.50	1.79	25.19	24.85
HT20	MCS0	1	11	2462	21.99	21.79		2.50	1.79	24.49	23.58
HT40	MCS0	1	3	2422	19.21	19.03		2.50	1.79	21.71	20.82
HT40	MCS0	1	4	2427	18.55	19.09		2.50	1.79	21.05	20.88
HT40	MCS0	1	6	2437	21.49	21.89		2.50	1.79	23.99	23.68
HT40	MCS0	1	8	2447	21.35	21.17		2.50	1.79	23.85	22.96
HT40	MCS0	1	9	2452	21.39	21.21		2.50	1.79	23.89	23.00
VHT20	MCS0	1	1	2412	20.02	20.39		2.50	1.79	22.52	22.18
VHT20	MCS0	1	2	2417	23.25	23.50		2.50	1.79	25.75	25.29
VHT20	MCS0	1	6	2437	23.36	23.60		2.50	1.79	25.86	25.39
VHT20	MCS0	1	10	2457	22.69	22.99		2.50	1.79	25.19	24.78
VHT20	MCS0	1	11	2462	22.02	22.02		2.50	1.79	24.52	23.81
VHT40	MCS0	1	3	2422	19.40	19.39		2.50	1.79	21.90	21.18
VHT40	MCS0	1	4	2427	18.42	18.99		2.50	1.79	23.83	23.74
VHT40	MCS0	1	6	2437	21.26	21.82		2.50	1.79	23.76	23.61
VHT40	MCS0	1	8	2447	21.49	21.49		2.50	1.79	23.99	23.28
VHT40	MCS0	1	9	2452	21.24	21.29		2.50	1.79	23.74	23.08

11b	1Mbps	2	1	2412	21.38	22.30	24.87	2.50	27.37
11b	1Mbps	2	2	2417	21.24	22.25	24.78	2.50	
11b	1Mbps	2	6	2437	21.53	22.10	24.83	2.50	27.33
11b	1Mbps	2	10	2457	21.48	22.11	24.82	2.50	
11b	1Mbps	2	11	2462	21.80	21.87	24.85	2.50	27.35
11g	6Mbps	2	1	2412	20.52	20.79	23.67	2.50	26.17
11g	6Mbps	2	2	2417	22.79	23.40	26.12	2.50	
11g	6Mbps	2	6	2437	22.93	23.46	26.21	2.50	28.71
11g	6Mbps	2	10	2457	22.55	23.19	25.89	2.50	
11g	6Mbps	2	11	2462	22.19	22.69	25.46	2.50	27.96
HT20	MCS0	2	1	2412	20.02	20.35	23.20	2.50	25.70
HT20	MCS0	2	2	2417	22.94	23.42	26.20	2.50	
HT20	MCS0	2	6	2437	22.91	23.65	26.31	2.50	28.81
HT20	MCS0	2	10	2457	22.49	22.99	25.76	2.50	
HT20	MCS0	2	11	2462	21.99	22.05	25.03	2.50	27.53
HT40	MCS0	2	3	2422	18.89	19.25	22.08	2.50	24.58
HT40	MCS0	2	4	2427	19.02	19.49	22.27	2.50	
HT40	MCS0	2	6	2437	21.85	21.99	24.93	2.50	27.43
HT40	MCS0	2	8	2447	21.23	21.29	24.27	2.50	
HT40	MCS0	2	9	2452	21.65	21.55	24.61	2.50	27.11
VHT20	MCS0	2	1	2412	19.99	20.55	23.29	2.50	25.79
VHT20	MCS0	2	2	2417	22.81	23.42	26.14	2.50	
VHT20	MCS0	2	6	2437	22.73	23.56	26.18	2.50	28.68
VHT20	MCS0	2	10	2457	22.55	22.88	25.73	2.50	
VHT20	MCS0	2	11	2462	21.89	22.15	25.03	2.50	27.53
VHT40	MCS0	2	3	2422	19.49	19.38	22.45	2.50	24.95
VHT40	MCS0	2	4	2427	19.15	19.21	22.19	2.50	
VHT40	MCS0	2	6	2437	21.49	22.21	24.88	2.50	27.38
VHT40	MCS0	2	8	2447	21.19	21.62	24.42	2.50	
VHT40	MCS0	2	9	2452	21.42	21.79	24.62	2.50	27.12

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band																		
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	0.06	0.06	18.48	18.96		30.00	30.00	2.50	1.79	20.98	20.75	36.00	36.00	Pass
11b	1Mbps	1	2	2417	0.06	0.06	18.58	18.94		30.00	30.00	2.50	1.79	21.08	20.73	36.00	36.00	Pass
11b	1Mbps	1	6	2437	0.06	0.06	18.73	18.98		30.00	30.00	2.50	1.79	21.23	20.77	36.00	36.00	Pass
11b	1Mbps	1	10	2457	0.06	0.06	18.72	18.89		30.00	30.00	2.50	1.79	21.22	20.68	36.00	36.00	Pass
11b	1Mbps	1	11	2462	0.06	0.06	18.78	18.67		30.00	30.00	2.50	1.79	21.28	20.46	36.00	36.00	Pass
11g	6Mbps	1	1	2412	0.32	0.32	15.77	15.34		30.00	30.00	2.50	1.79	18.27	17.13	36.00	36.00	Pass
11g	6Mbps	1	2	2417	0.32	0.32	17.42	17.82		30.00	30.00	2.50	1.79	19.92	19.61	36.00	36.00	Pass
11g	6Mbps	1	6	2437	0.32	0.32	17.76	17.94		30.00	30.00	2.50	1.79	20.26	19.73	36.00	36.00	Pass
11g	6Mbps	1	10	2457	0.32	0.32	17.54	17.91		30.00	30.00	2.50	1.79	20.04	19.70	36.00	36.00	Pass
11g	6Mbps	1	11	2462	0.32	0.32	17.75	16.71		30.00	30.00	2.50	1.79	20.25	18.50	36.00	36.00	Pass
HT20	MCS0	1	1	2412	0.34	0.34	12.80	13.19		30.00	30.00	2.50	1.79	15.30	14.98	36.00	36.00	Pass
HT20	MCS0	1	2	2417	0.34	0.34	17.52	17.58		30.00	30.00	2.50	1.79	20.02	19.37	36.00	36.00	Pass
HT20	MCS0	1	6	2437	0.34	0.34	17.54	17.59		30.00	30.00	2.50	1.79	20.04	19.38	36.00	36.00	Pass
HT20	MCS0	1	10	2457	0.31	0.34	16.23	16.29		30.00	30.00	2.50	1.79	18.73	18.08	36.00	36.00	Pass
HT20	MCS0	1	11	2462	0.34	0.34	15.08	14.89		30.00	30.00	2.50	1.79	17.58	16.68	36.00	36.00	Pass
HT40	MCS0	1	3	2422	0.11	0.11	11.10	11.42		30.00	30.00	2.50	1.79	13.60	13.21	36.00	36.00	Pass
HT40	MCS0	1	4	2427	0.11	0.11	10.93	11.43		30.00	30.00	2.50	1.79	13.43	13.22	36.00	36.00	Pass
HT40	MCS0	1	6	2437	0.11	0.11	14.50	14.73		30.00	30.00	2.50	1.79	17.00	16.52	36.00	36.00	Pass
HT40	MCS0	1	8	2447	0.11	0.11	13.59	13.93		30.00	30.00	2.50	1.79	16.09	15.72	36.00	36.00	Pass
HT40	MCS0	1	9	2452	0.11	0.11	13.90	13.93		30.00	30.00	2.50	1.79	16.40	15.72	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	0.31	0.34	12.90	13.62		30.00	30.00	2.50	1.79	15.40	15.41	36.00	36.00	Pass
VHT20	MCS0	1	2	2417	0.31	0.34	17.56	17.65		30.00	30.00	2.50	1.79	20.06	19.44	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	0.31	0.34	17.58	17.71		30.00	30.00	2.50	1.79	20.08	19.50	36.00	36.00	Pass
VHT20	MCS0	1	10	2457	0.31	0.34	16.26	16.27		30.00	30.00	2.50	1.79	18.76	18.06	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	0.31	0.34	15.07	15.16		30.00	30.00	2.50	1.79	17.57	16.95	36.00	36.00	Pass
VHT40	MCS0	1	3	2422	0.11	0.08	11.13	11.70		30.00	30.00	2.50	1.79	13.63	13.49	36.00	36.00	Pass
VHT40	MCS0	1	4	2427	0.11	0.08	10.66	11.37		30.00	30.00	2.50	1.79	13.16	13.16	36.00	36.00	Pass
VHT40	MCS0	1	6	2437	0.11	0.08	14.50	14.90		30.00	30.00	2.50	1.79	17.00	16.69	36.00	36.00	Pass
VHT40	MCS0	1	8	2447	0.11	0.08	13.80	14.19		30.00	30.00	2.50	1.79	16.30	15.98	36.00	36.00	Pass
VHT40	MCS0	1	9	2452	0.11	0.08	14.03	14.03		30.00	30.00	2.50	1.79	16.53	15.82	36.00	36.00	Pass
11b	1Mbps	2	1	2412	0.04	0.06	18.40	18.99	21.72	30.00		2.50		24.22		36.00		Pass
11b	1Mbps	2	2	2417	0.04	0.06	18.26	18.99	21.65	30.00		2.50		24.15		36.00		Pass
11b	1Mbps	2	6	2437	0.04	0.06	18.56	18.96	21.78	30.00		2.50		24.28		36.00		Pass
11b	1Mbps	2	10	2457	0.04	0.06	18.52	18.95	21.75	30.00		2.50		24.25		36.00		Pass
11b	1Mbps	2	11	2462	0.04	0.06	18.79	18.70	21.76	30.00		2.50		24.26		36.00		Pass
11g	6Mbps	2	1	2412	0.29	0.32	13.78	14.14	16.98	30.00		2.50		19.48		36.00		Pass
11g	6Mbps	2	2	2417	0.29	0.32	17.19	17.67	20.45	30.00		2.50		22.95		36.00		Pass
11g	6Mbps	2	6	2437	0.29	0.32	17.56	17.99	20.79	30.00		2.50		23.29		36.00		Pass
11g	6Mbps	2	10	2457	0.29	0.32	16.71	16.74	19.74	30.00		2.50		22.24		36.00		Pass
11g	6Mbps	2	11	2462	0.29	0.32	16.18	16.07	19.14	30.00		2.50		21.64		36.00		Pass
HT20	MCS0	2	1	2412	0.34	0.31	13.03	13.30	16.18	30.00		2.50		18.68		36.00		Pass
HT20	MCS0	2	2	2417	0.34	0.31	17.66	17.92	20.81	30.00		2.50		23.31		36.00		Pass
HT20	MCS0	2	6	2437	0.34	0.31	17.68	17.93	20.82	30.00		2.50		23.32		36.00		Pass
HT20	MCS0	2	10	2457	0.34	0.31	16.29	16.30	19.31	30.00		2.50		21.81		36.00		Pass
HT20	MCS0	2	11	2462	0.34	0.31	15.09	15.13	18.12	30.00		2.50		20.62		36.00		Pass
HT40	MCS0	2	3	2422	0.11	0.11	11.20	11.66	14.45	30.00		2.50		16.95		36.00		Pass
HT40	MCS0	2	4	2427	0.11	0.11	11.00	11.53	14.28	30.00		2.50		16.78		36.00		Pass
HT40	MCS0	2	6	2437	0.11	0.11	14.63	14.99	17.82	30.00		2.50		20.32		36.00		Pass
HT40	MCS0	2	8	2447	0.11	0.11	13.60	14.06	16.85	30.00		2.50		19.35		36.00		Pass
HT40	MCS0	2	9	2452	0.11	0.11	14.16	14.13	17.15	30.00		2.50		19.65		36.00		Pass
VHT20	MCS0	2	1	2412	0.34	0.34	13.06	13.63	16.36	30.00		2.50		18.86		36.00		Pass
VHT20	MCS0	2	2	2417	0.34	0.34	17.66	17.95	20.82	30.00		2.50		23.32		36.00		Pass
VHT20	MCS0	2	6	2437	0.34	0.34	17.64	17.99	20.83	30.00		2.50		23.33		36.00		Pass
VHT20	MCS0	2	10	2457	0.34	0.34	16.63	16.29	19.47	30.00		2.50		21.97		36.00		Pass
VHT20	MCS0	2	11	2462	0.34	0.34	15.09	15.23	18.17	30.00		2.50		20.67		36.00		Pass
VHT40	MCS0	2	3	2422	0.11	0.11	11.20	11.96	14.61	30.00		2.50		17.11		36.00		Pass
VHT40	MCS0	2	4	2427	0.11	0.11	11.10	11.80	14.47	30.00		2.50		16.97		36.00		Pass
VHT40	MCS0	2	6	2437	0.11	0.11	14.63	15.10	17.88	30.00		2.50		20.38		36.00		Pass
VHT40	MCS0	2	8	2447	0.11	0.11	13.86	14.20	17.04	30.00		2.50		19.54		36.00		Pass
VHT40	MCS0	2	9	2452	0.11	0.11	14.13	14.27	17.21	30.00		2.50		19.71		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Power Spectral Density**

2.4GHz Band														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average PSD (dBm/3kHz)			DG (dBi)		Average PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	0.06	0.06	-7.55	-7.54	-	2.50	1.79	8.00	8.00	Pass
11b	1Mbps	1	6	2437	0.06	0.06	-7.55	-7.67		2.50	1.79	8.00	8.00	Pass
11b	1Mbps	1	11	2462	0.06	0.06	-7.42	-7.97		2.50	1.79	8.00	8.00	Pass
11g	6Mbps	1	1	2412	0.32	0.32	-10.53	-11.65		2.50	1.79	8.00	8.00	Pass
11g	6Mbps	1	6	2437	0.32	0.32	-9.11	-9.15		2.50	1.79	8.00	8.00	Pass
11g	6Mbps	1	11	2462	0.32	0.32	-8.72	-10.02		2.50	1.79	8.00	8.00	Pass
11b	1Mbps	2	1	2412	0.04	0.06	-7.46	-7.63	-4.45	5.16		8.00		Pass
11b	1Mbps	2	6	2437	0.04	0.06	-7.36	-8.02	-4.35	5.16		8.00		Pass
11b	1Mbps	2	11	2462	0.04	0.06	-7.51	-8.01	-4.50	5.16		8.00		Pass
11g	6Mbps	2	1	2412	0.29	0.32	-12.53	-11.86	-8.85	5.16		8.00		Pass
11g	6Mbps	2	6	2437	0.29	0.32	-8.92	-9.62	-5.91	5.16		8.00		Pass
11g	6Mbps	2	11	2462	0.29	0.32	-10.49	-10.83	-7.48	5.16		8.00		Pass
HT20	MCS0	2	1	2412	0.34	0.31	-15.41	-15.26	-12.25	5.16		8.00		Pass
HT20	MCS0	2	6	2437	0.34	0.31	-9.10	-9.49	-6.09	5.16		8.00		Pass
HT20	MCS0	2	11	2462	0.34	0.31	-11.58	-11.93	-8.57	5.16		8.00		Pass
HT40	MCS0	2	3	2422	0.11	0.11	-19.66	-19.82	-16.65	5.16		8.00		Pass
HT40	MCS0	2	6	2437	0.11	0.11	-16.54	-16.49	-13.48	5.16		8.00		Pass
HT40	MCS0	2	9	2452	0.11	0.11	-17.14	-17.19	-14.13	5.16		8.00		Pass
VHT20	MCS0	2	1	2412	0.34	0.34	-14.93	-15.13	-11.92	5.16		8.00		Pass
VHT20	MCS0	2	6	2437	0.34	0.34	-11.14	-11.03	-8.02	5.16		8.00		Pass
VHT20	MCS0	2	11	2462	0.34	0.34	-13.75	-13.54	-10.53	5.16		8.00		Pass
VHT40	MCS0	2	3	2422	0.11	0.11	-19.38	-19.21	-16.20	5.16		8.00		Pass
VHT40	MCS0	2	6	2437	0.11	0.11	-16.78	-15.71	-12.70	5.16		8.00		Pass
VHT40	MCS0	2	9	2452	0.11	0.11	-16.34	-16.84	-13.33	5.16		8.00		Pass

Measured power density (dBm) has offset with cable loss.