



Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Derreck Chen and James Chiu	Temperature :	21~24°C
		Relative Humidity :	50~54%

2.4GHz 2400~2483.5MHz

WiFi 802.11b (Band Edge @ 3m)

WiFi Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 01 2412MHz		2385.6	55.12	-18.88	74	50.22	31.93	7.31	34.34	146	325	P	H	
		2390	46.71	-7.29	54	41.8	31.93	7.31	34.33	146	325	A	H	
	*	2412	113.78	-	-	108.79	31.98	7.31	34.3	146	325	P	H	
	*	2412	110.59	-	-	105.6	31.98	7.31	34.3	146	325	A	H	
													H	
														H
			2347.905	54.85	-19.15	74	50.21	31.8	7.24	34.4	351	32	P	V
			2389.17	45.76	-8.24	54	40.85	31.93	7.31	34.33	351	32	A	V
	*		2412	110.12	-	-	105.13	31.98	7.31	34.3	351	32	P	V
	*		2412	106.8	-	-	101.81	31.98	7.31	34.3	351	32	A	V
														V
														V
802.11b CH 06 2437MHz		2361.38	55.13	-18.87	74	50.43	31.84	7.24	34.38	309	303	P	H	
		2388.96	45.45	-8.55	54	40.54	31.93	7.31	34.33	309	303	A	H	
	*	2437	112.16	-	-	106.98	32.07	7.36	34.25	309	303	P	H	
	*	2437	108.91	-	-	103.73	32.07	7.36	34.25	309	303	A	H	
			2487.61	55.57	-18.43	74	50.14	32.2	7.4	34.17	309	303	P	H
			2489.71	45.9	-8.1	54	40.47	32.2	7.4	34.17	309	303	A	H
			2325.54	55.57	-18.43	74	51.08	31.75	7.18	34.44	301	336	P	V
			2389.1	45.38	-8.62	54	40.47	31.93	7.31	34.33	301	336	A	V
	*		2437	111.45	-	-	106.27	32.07	7.36	34.25	301	336	P	V
	*		2437	105.17	-	-	99.99	32.07	7.36	34.25	301	336	A	V
			2488.59	55.57	-18.43	74	50.14	32.2	7.4	34.17	301	336	P	V
			2484.39	46.06	-7.94	54	40.68	32.16	7.4	34.18	301	336	A	V



802.11b CH 11 2462MHz	*	2462	113.07	-	-	107.77	32.11	7.4	34.21	336	328	P	H
	*	2462	110.01	-	-	104.71	32.11	7.4	34.21	336	328	A	H
		2483.76	56.28	-17.72	74	50.9	32.16	7.4	34.18	336	328	P	H
		2483.56	47.14	-6.86	54	41.76	32.16	7.4	34.18	336	328	A	H
													H
													H
	*	2462	111.38	-	-	106.08	32.11	7.4	34.21	371	18	P	V
	*	2462	108.07	-	-	102.77	32.11	7.4	34.21	371	18	A	V
		2488.44	55.72	-18.28	74	50.29	32.2	7.4	34.17	371	18	P	V
		2483.92	45.86	-8.14	54	40.48	32.16	7.4	34.18	371	18	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 01 2412MHz		4824	47.92	-26.08	74	61.08	34.2	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	48.74	-25.26	74	61.9	34.2	11.68	59.04	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4872	47.5	-26.5	74	60.68	34.23	11.53	58.94	100	0	P	H	
		7308	40.93	-33.07	74	49.45	35.6	13.81	57.93	100	0	P	H	
													H	
													H	
			4872	47.74	-26.26	74	60.92	34.23	11.53	58.94	100	0	P	V
			7308	41.01	-32.99	74	49.53	35.6	13.81	57.93	100	0	P	V
														V
802.11b CH 11 2462MHz		4926	50.56	-23.44	74	63.77	34.26	11.37	58.84			P	H	
		7386	42.23	-31.77	74	50.74	35.6	13.95	58.06	100	0	P	H	
													H	
													H	
			4924	50.65	-23.35	74	63.86	34.26	11.37	58.84	100	0	P	V
			7386	41.27	-32.73	74	49.78	35.6	13.95	58.06	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		2389.905	63.24	-10.76	74	58.33	31.93	7.31	34.33	316	315	P	H	
		2389.695	52.95	-1.05	54	48.04	31.93	7.31	34.33	316	315	A	H	
	*	2412	110.96	-	-	105.97	31.98	7.31	34.3	316	315	P	H	
	*	2412	103.58	-	-	98.59	31.98	7.31	34.3	316	315	A	H	
													H	
														H
			2389.8	58.65	-15.35	74	53.74	31.93	7.31	34.33	310	69	P	V
			2390	48.68	-5.32	54	43.77	31.93	7.31	34.33	310	69	A	V
	*		2412	108.76	-	-	103.77	31.98	7.31	34.3	310	69	P	V
	*		2412	100.81	-	-	95.82	31.98	7.31	34.3	310	69	A	V
														V
														V
802.11g CH 06 2437MHz		2380.42	55.51	-18.49	74	50.66	31.89	7.31	34.35	380	325	P	H	
		2389.94	45.52	-8.48	54	40.61	31.93	7.31	34.33	380	325	A	H	
	*	2437	113.11	-	-	107.93	32.07	7.36	34.25	380	325	P	H	
	*	2437	105.5	-	-	100.32	32.07	7.36	34.25	380	325	A	H	
			2488.31	56.45	-17.55	74	51.02	32.2	7.4	34.17	380	325	P	H
			2484.32	45.92	-8.08	54	40.54	32.16	7.4	34.18	380	325	A	H
			2359.28	55.1	-18.9	74	50.4	31.84	7.24	34.38	336	65	P	V
			2389.1	45.38	-8.62	54	40.47	31.93	7.31	34.33	336	65	A	V
	*		2437	111.67	-	-	106.49	32.07	7.36	34.25	336	65	P	V
	*		2437	103.29	-	-	98.11	32.07	7.36	34.25	336	65	A	V
			2499.51	55.6	-18.4	74	50.15	32.2	7.4	34.15	336	65	P	V
			2488.24	45.78	-8.22	54	40.35	32.2	7.4	34.17	336	65	A	V



802.11g CH 11 2462MHz	*	2462	109.57	-	-	104.27	32.11	7.4	34.21	159	326	P	H
	*	2462	102.46	-	-	97.16	32.11	7.4	34.21	159	326	A	H
		2483.68	62.51	-11.49	74	57.13	32.16	7.4	34.18	159	326	P	H
		2483.64	52.37	-1.63	54	46.99	32.16	7.4	34.18	159	326	A	H
													H
													H
	*	2462	107.76	-	-	102.46	32.11	7.4	34.21	370	16	P	V
	*	2462	100.37	-	-	95.07	32.11	7.4	34.21	370	16	A	V
		2495	55.35	-18.65	74	49.91	32.2	7.4	34.16	370	16	P	V
		2483.56	46.29	-7.71	54	40.91	32.16	7.4	34.18	370	16	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		4824	43.9	-30.1	74	57.06	34.2	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	44.96	-29.04	74	58.12	34.2	11.68	59.04	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	46.94	-27.06	74	60.12	34.23	11.53	58.94	100	0	P	H	
		7311	41.77	-32.23	74	50.29	35.6	13.81	57.93	100	0	P	H	
													H	
													H	
			4874	46.59	-27.41	74	59.77	34.23	11.53	58.94	100	0	P	V
			7311	40.69	-33.31	74	49.21	35.6	13.81	57.93	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	44.78	-29.22	74	57.99	34.26	11.37	58.84	100	0	P	H	
		7386	40.71	-33.29	74	49.22	35.6	13.95	58.06	100	0	P	H	
													H	
													H	
			4924	42.76	-31.24	74	55.97	34.26	11.37	58.84	100	0	P	V
			7386	41.71	-32.29	74	50.22	35.6	13.95	58.06	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		2389.8	63.02	-10.98	74	58.11	31.93	7.31	34.33	341	328	P	H	
		2390	51.92	-2.08	54	47.01	31.93	7.31	34.33	341	328	A	H	
	*	2412	110.29	-	-	105.3	31.98	7.31	34.3	341	328	P	H	
	*	2412	102.79	-	-	97.8	31.98	7.31	34.3	341	328	A	H	
													H	
														H
			2389.905	59.42	-14.58	74	54.51	31.93	7.31	34.33	309	69	P	V
			2390	49.47	-4.53	54	44.56	31.93	7.31	34.33	309	69	A	V
		*	2412	108.26	-	-	103.27	31.98	7.31	34.3	309	69	P	V
		*	2412	100.57	-	-	95.58	31.98	7.31	34.3	309	69	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2389.52	56.3	-17.7	74	51.39	31.93	7.31	34.33	378	358	P	H	
		2389.94	46.39	-7.61	54	41.48	31.93	7.31	34.33	378	358	A	H	
	*	2437	117.02	-	-	111.84	32.07	7.36	34.25	378	358	P	H	
	*	2437	109.22	-	-	104.04	32.07	7.36	34.25	378	358	A	H	
			2483.52	60.04	-13.96	74	54.66	32.16	7.4	34.18	378	358	P	H
			2483.55	50.39	-3.61	54	45.01	32.16	7.4	34.18	378	358	A	H
			2373.42	55.14	-18.86	74	50.37	31.89	7.24	34.36	334	63	P	V
			2389.24	45.79	-8.21	54	40.88	31.93	7.31	34.33	334	63	A	V
		*	2437	115.09	-	-	109.91	32.07	7.36	34.25	334	63	P	V
		*	2437	107.64	-	-	102.46	32.07	7.36	34.25	334	63	A	V
		2483.9	57.61	-16.39	74	52.23	32.16	7.4	34.18	334	63	P	V	
		2483.55	48	-6	54	42.62	32.16	7.4	34.18	334	63	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	108.12	-	-	102.82	32.11	7.4	34.21	369	327	P	H
	*	2462	100.35	-	-	95.05	32.11	7.4	34.21	369	327	A	H
		2484.52	62.81	-11.19	74	57.43	32.16	7.4	34.18	369	327	P	H
		2483.64	52.19	-1.81	54	46.81	32.16	7.4	34.18	369	327	A	H
													H
													H
	*	2462	107.11	-	-	101.81	32.11	7.4	34.21	371	43	P	V
	*	2462	99.35	-	-	94.05	32.11	7.4	34.21	371	43	A	V
		2493.64	55.97	-18.03	74	50.53	32.2	7.4	34.16	371	43	P	V
		2484.32	45.87	-8.13	54	40.49	32.16	7.4	34.18	371	43	A	V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		4824	41.82	-32.18	74	54.98	34.2	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	45.25	-28.75	74	58.41	34.2	11.68	59.04	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	47.2	-26.8	74	60.38	34.23	11.53	58.94	100	0	P	H	
		7311	41.14	-32.86	74	49.66	35.6	13.81	57.93	100	0	P	H	
													H	
													H	
			4874	44.83	-29.17	74	58.01	34.23	11.53	58.94	100	0	P	V
			7311	41.37	-32.63	74	49.89	35.6	13.81	57.93	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	42.6	-31.4	74	55.81	34.26	11.37	58.84	100	0	P	H	
		7386	40.71	-33.29	74	49.22	35.6	13.95	58.06	100	0	P	H	
													H	
													H	
			4924	42.76	-31.24	74	55.97	34.26	11.37	58.84	100	0	P	V
			7386	41.71	-32.29	74	50.22	35.6	13.95	58.06	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.66	61.99	-12.01	74	57.08	31.93	7.31	34.33	159	326	P	H
		2389.94	52.38	-1.62	54	47.47	31.93	7.31	34.33	159	326	A	H
	*	2422	106.29	-	-	101.19	32.02	7.36	34.28	159	326	P	H
	*	2422	99.52	-	-	94.42	32.02	7.36	34.28	159	326	A	H
		2499.79	56.48	-17.52	74	51.03	32.2	7.4	34.15	159	326	P	H
		2483.83	46.66	-7.34	54	41.28	32.16	7.4	34.18	159	326	A	H
		2388.4	55.72	-18.28	74	50.82	31.93	7.31	34.34	330	65	P	V
		2389.1	46.34	-7.66	54	41.43	31.93	7.31	34.33	330	65	A	V
	*	2422	104.34	-	-	99.24	32.02	7.36	34.28	330	65	P	V
	*	2422	96.81	-	-	91.71	32.02	7.36	34.28	330	65	A	V
		2491.46	55.17	-18.83	74	49.73	32.2	7.4	34.16	330	65	P	V
		2483.62	46.43	-7.57	54	41.05	32.16	7.4	34.18	330	65	A	V
802.11n HT40 CH 06 2437MHz		2389.8	60.05	-13.95	74	55.14	31.93	7.31	34.33	380	321	P	H
		2389.94	51.26	-2.74	54	46.35	31.93	7.31	34.33	380	321	A	H
	*	2437	108.18	-	-	103	32.07	7.36	34.25	380	321	P	H
	*	2437	100.26	-	-	95.08	32.07	7.36	34.25	380	321	A	H
		2485.51	62.35	-11.65	74	56.96	32.16	7.4	34.17	380	321	P	H
		2483.48	52.57	-1.43	54	47.19	32.16	7.4	34.18	380	321	A	H
		2348.5	55.15	-18.85	74	50.51	31.8	7.24	34.4	330	66	P	V
		2389.24	46.26	-7.74	54	41.35	31.93	7.31	34.33	330	66	A	V
	*	2437	104.86	-	-	99.68	32.07	7.36	34.25	330	66	P	V
	*	2437	97.69	-	-	92.51	32.07	7.36	34.25	330	66	A	V
		2483.62	61.5	-12.5	74	56.12	32.16	7.4	34.18	330	66	P	V
		2483.52	51.38	-2.62	54	46	32.16	7.4	34.18	330	66	A	V



802.11n HT40 CH 09 2452MHz		2366.28	56.1	-17.9	74	51.39	31.84	7.24	34.37	332	360	P	H
		2388.96	45.71	-8.29	54	40.8	31.93	7.31	34.33	332	360	A	H
	*	2452	105.98	-	-	100.78	32.07	7.36	34.23	332	360	P	H
	*	2452	98.87	-	-	93.67	32.07	7.36	34.23	332	360	A	H
		2484.32	62.46	-11.54	74	57.08	32.16	7.4	34.18	332	360	P	H
		2484.46	52.79	-1.21	54	47.41	32.16	7.4	34.18	332	360	A	H
		2389.1	55.23	-18.77	74	50.32	31.93	7.31	34.33	271	46	P	V
		2376.78	45.78	-8.22	54	41	31.89	7.24	34.35	271	46	A	V
	*	2452	104.19	-	-	98.99	32.07	7.36	34.23	271	46	P	V
	*	2452	96.93	-	-	91.73	32.07	7.36	34.23	271	46	A	V
		2484.39	58.18	-15.82	74	52.8	32.16	7.4	34.18	271	46	P	V
		2483.62	49.35	-4.65	54	43.97	32.16	7.4	34.18	271	46	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	41.79	-32.21	74	54.91	34.21	11.68	59.01	100	0	P	H
		7266	41.51	-32.49	74	50.05	35.6	13.75	57.89	100	0	P	H
													H
													H
		4844	41.31	-32.69	74	54.43	34.21	11.68	59.01	100	0	P	V
		7266	42.03	-31.97	74	50.57	35.6	13.75	57.89	100	0	P	V
802.11n HT40 CH 06 2437MHz		4874	40.86	-33.14	74	54.04	34.23	11.53	58.94	100	0	P	H
		7311	41.36	-32.64	74	49.88	35.6	13.81	57.93	100	0	P	H
													H
													H
		4874	42.33	-31.67	74	55.51	34.23	11.53	58.94	100	0	P	V
		7311	41.07	-32.93	74	49.59	35.6	13.81	57.93	100	0	P	V
802.11n HT40 CH 09 2452MHz		4904	40.04	-33.96	74	53.29	34.25	11.37	58.87	100	0	P	H
		7356	41.2	-32.8	74	49.73	35.6	13.88	58.01	100	0	P	H
													H
													H
		4904	40.99	-33.01	74	54.24	34.25	11.37	58.87	100	0	P	V
		7356	40.7	-33.3	74	49.23	35.6	13.88	58.01	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m) (data link with NB)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		2389.905	58.37	-15.63	74	53.46	31.93	7.31	34.33	228	82	P	H	
		2390	48.64	-5.36	54	43.73	31.93	7.31	34.33	228	82	A	H	
	*	2412	108.5	-	-	103.51	31.98	7.31	34.3	228	82	P	H	
	*	2412	101.54	-	-	96.55	31.98	7.31	34.3	228	82	A	H	
													H	
														H
			2389.905	62.72	-11.28	74	57.81	31.93	7.31	34.33	103	292	P	V
			2390	52.6	-1.4	54	47.69	31.93	7.31	34.33	103	292	A	V
	*		2412	108	-	-	103.01	31.98	7.31	34.3	103	292	P	V
	*		2412	100.32	-	-	95.33	31.98	7.31	34.3	103	292	A	V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m) (data link with NB)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		4824	43.53	-30.47	74	56.69	34.2	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	42.91	-31.09	74	56.07	34.2	11.68	59.04	100	0	P	V
														V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m) (earphone 2)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		2389.695	62.35	-11.65	74	57.44	31.93	7.31	34.33	209	294	P	H	
		2390	52.16	-1.84	54	47.25	31.93	7.31	34.33	209	294	A	H	
	*	2412	111.32	-	-	106.33	31.98	7.31	34.3	209	294	P	H	
	*	2412	103.33	-	-	98.34	31.98	7.31	34.3	209	294	A	H	
													H	
													H	
			2390	58.79	-15.21	74	53.88	31.93	7.31	34.33	228	291	P	V
			2390	49.49	-4.51	54	44.58	31.93	7.31	34.33	228	291	A	V
	*		2412	110.04	-	-	105.05	31.98	7.31	34.3	228	291	P	V
	*		2412	102.38	-	-	97.39	31.98	7.31	34.3	228	291	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m) (earphone 2)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 01 2412MHz		4824	44.15	-29.85	74	57.31	34.2	11.68	59.04	100	0	P	H	
													H	
													H	
													H	
			4824	44.63	-29.37	74	57.79	34.2	11.68	59.04	100	0	P	V
														V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11b CH 02 2417MHz		2382.38	55.16	-18.84	74	50.31	31.89	7.31	34.35	227	297	P	H	
		2389.94	46.55	-7.45	54	41.64	31.93	7.31	34.33	227	297	A	H	
	*	2417	114.13	-	-	109.13	31.98	7.31	34.29	227	297	P	H	
	*	2417	110.95	-	-	105.95	31.98	7.31	34.29	227	297	A	H	
													H	
														H
			2333.52	55.81	-18.19	74	51.31	31.75	7.18	34.43	306	0	P	V
			2389.94	44.97	-9.03	54	40.06	31.93	7.31	34.33	306	0	A	V
	*		2417	110.39	-	-	105.39	31.98	7.31	34.29	306	0	P	V
	*		2417	107.48	-	-	102.48	31.98	7.31	34.29	306	0	A	V
														V
														V
802.11b CH 10 2457MHz	*	2456	113.19	-	-	107.94	32.11	7.36	34.22	376	62	P	H	
	*	2456	110.07	-	-	104.82	32.11	7.36	34.22	376	62	A	H	
			2483.8	55.94	-18.06	74	50.56	32.16	7.4	34.18	376	62	P	H
			2483.8	45.75	-8.25	54	40.37	32.16	7.4	34.18	376	62	A	H
													P	H
													A	H
	*		2456	111.69	-	-	106.44	32.11	7.36	34.22	372	17	P	V
	*		2456	108.55	-	-	103.3	32.11	7.36	34.22	372	17	A	V
			2497.54	55.6	-18.4	74	50.15	32.2	7.4	34.15	372	17	P	V
			2483.5	45.15	-8.85	54	39.77	32.16	7.4	34.18	372	17	A	V
													P	V
													A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 02 2417MHz		4834	49.75	-24.25	74	62.87	34.21	11.68	59.01	100	0	P	H
		7251	41.4	-32.6	74	49.98	35.6	13.68	57.86	100	0	P	H
													H
													H
		4834	50.61	-23.39	74	63.73	34.21	11.68	59.01	100	0	P	V
		7251	41.35	-32.65	74	49.93	35.6	13.68	57.86	100	0	P	V
													V
													V
802.11b CH 10 2457MHz		4914	50.26	-23.74	74	63.51	34.25	11.37	58.87	100	0	P	H
		7371	48.17	-25.83	74	56.72	35.6	13.88	58.03	100	0	P	H
													H
													H
		4914	50.98	-23.02	74	64.23	34.25	11.37	58.87	100	0	P	V
		7371	48.57	-25.43	74	57.12	35.6	13.88	58.03	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11g CH 02 2417MHz		2370.76	54.75	-19.25	74	50.43	31.89	7.24	34.81	305	282	P	H	
		2389.8	45.9	-8.1	54	41.48	31.93	7.31	34.82	305	282	A	H	
	*	2417	109.19	-	-	104.73	31.98	7.31	34.83	305	282	P	H	
	*	2417	102.12	-	-	97.66	31.98	7.31	34.83	305	282	A	H	
													H	
														H
			2386.16	56.14	-17.86	74	51.71	31.93	7.31	34.81	305	0	P	V
			2389.8	45.25	-8.75	54	40.83	31.93	7.31	34.82	305	0	A	V
	*		2417	106.8	-	-	102.34	31.98	7.31	34.83	305	0	P	V
	*		2417	99.27	-	-	94.81	31.98	7.31	34.83	305	0	A	V
														V
														V
802.11g CH 10 2457MHz	*	2457	108.4	-	-	103.77	32.11	7.36	34.84	301	279	P	H	
	*	2457	101.7	-	-	97.07	32.11	7.36	34.84	301	279	A	H	
			2485.3	55.8	-18.2	74	51.09	32.16	7.4	34.85	301	279	P	H
			2483.5	46.53	-7.47	54	41.82	32.16	7.4	34.85	301	279	A	H
													P	H
													A	H
	*		2457	105.21	-	-	100.58	32.11	7.36	34.84	363	191	P	V
	*		2457	97.5	-	-	92.87	32.11	7.36	34.84	363	191	A	V
			2499.7	54.96	-19.04	74	50.22	32.2	7.4	34.86	363	191	P	V
			2485.66	45.54	-8.46	54	40.83	32.16	7.4	34.85	363	191	A	V
													P	V
													A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 02 2417MHz		4834	44.32	-29.68	74	57.44	34.21	11.68	59.01	100	0	P	H
		7251	41.8	-32.2	74	50.38	35.6	13.68	57.86	100	0	P	H
													H
													H
		4834	43.76	-30.24	74	56.88	34.21	11.68	59.01	100	0	P	V
		7251	48.67	-25.33	74	57.25	35.6	13.68	57.86	100	0	P	V
													V
													V
802.11g CH 10 2457MHz		4914	44.9	-29.1	74	58.15	34.25	11.37	58.87	100	0	P	H
		7371	45.05	-28.95	74	53.6	35.6	13.88	58.03	100	0	P	H
													H
													H
		4914	46.67	-27.33	74	59.92	34.25	11.37	58.87	100	0	P	V
		7371	44.02	-29.98	74	52.57	35.6	13.88	58.03	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)		
802.11n HT20 CH 02 2417MHz		2388.54	55.97	-18.03	74	51.07	31.93	7.31	34.34	160	285	P	H		
		2389.8	46.56	-7.44	54	41.65	31.93	7.31	34.33	160	285	A	H		
	*	2417	110.05	-	-	105.05	31.98	7.31	34.29	160	285	P	H		
	*	2417	102.62	-	-	97.62	31.98	7.31	34.29	160	285	A	H		
													H		
														H	
			2389.24	55.17	-18.83	74	50.26	31.93	7.31	34.33	100	158	P	V	
			2388.68	45.73	-8.27	54	40.82	31.93	7.31	34.33	100	158	A	V	
		*	2417	106.39	-	-	101.39	31.98	7.31	34.29	100	158	P	V	
		*	2417	98.94	-	-	93.94	31.98	7.31	34.29	100	158	A	V	
802.11n HT20 CH 10 2457MHz													V		
													V		
		*	2457	108.41	-	-	103.16	32.11	7.36	34.22	204	278	P	H	
		*	2457	100.89	-	-	95.64	32.11	7.36	34.22	204	278	A	H	
			2484.1	56.01	-17.99	74	50.63	32.16	7.4	34.18	204	278	P	H	
			2486.5	46.37	-7.63	54	40.98	32.16	7.4	34.17	204	278	A	H	
														P	H
														A	H
		*	2457	104.43	-	-	99.18	32.11	7.36	34.22	101	126	P	V	
		*	2457	97.45	-	-	92.2	32.11	7.36	34.22	101	126	A	V	
		2489.92	55.69	-18.31	74	50.26	32.2	7.4	34.17	101	126	P	V		
		2483.56	46.29	-7.71	54	40.91	32.16	7.4	34.18	101	126	A	V		
													P	V	
													A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.														



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 02 2417MHz		4834	42.83	-31.17	74	55.95	34.21	11.68	59.01	100	0	P	H
		7248	41	-33	74	49.58	35.6	13.68	57.86	100	0	P	H
													H
													H
		4834	45.06	-28.94	74	58.18	34.21	11.68	59.01	100	0	P	V
		7251	46.01	-27.99	74	54.59	35.6	13.68	57.86	100	0	P	V
													V
													V
802.11n HT20 CH 10 2457MHz		4914	42.49	-31.51	74	55.74	34.25	11.37	58.87	100	0	P	H
		7371	41.15	-32.85	74	49.7	35.6	13.88	58.03	100	0	P	H
													H
													H
		4914	43.11	-30.89	74	56.36	34.25	11.37	58.87	100	0	P	V
		7371	40.48	-33.52	74	49.03	35.6	13.88	58.03	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11g LF		30	27.23	-12.77	40	31.51	26	1.07	31.35			P	H	
		137.46	27.38	-16.12	43.5	39.27	18.06	1.55	31.5			P	H	
		256.26	22.48	-23.52	46	32.17	19.6	2.07	31.36			P	H	
		840.4	32.25	-13.75	46	30.22	28.5	4.1	30.57			P	H	
		902	32.63	-13.37	46	30	29.05	4.12	30.54			P	H	
		947.5	33.25	-12.75	46	29.56	30.15	4.07	30.53	100	0	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
			72.12	34.31	-5.69	40	51.67	12.92	1.28	31.56	100	0	P	V
			97.77	29.29	-14.21	43.5	43.39	16.14	1.28	31.52			P	V
			272.73	22.34	-23.66	46	31.98	19.37	2.32	31.33			P	V
			799.8	31.94	-14.06	46	30.93	27.7	3.9	30.59			P	V
			934.2	33.31	-12.69	46	29.9	29.82	4.12	30.53			P	V
			956.6	33.33	-12.67	46	29.58	30.21	4.07	30.53			P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

- Level(dBμV/m) =
Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBμV/m)
= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.