



Appendix A. Radiated Spurious Emission

Test Engineer :	Tsung Lee, Stan Hsieh, and Ray Lee	Temperature :	20~22°C
		Relative Humidity :	41~43%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	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		2390	55.86	-18.14	74	56.46	27.23	5.39	33.22	117	315	P	H
		2389.83	47.87	-6.13	54	48.47	27.23	5.39	33.22	117	315	A	H
	*	2413.444	107.09	-	-	107.61	27.28	5.42	33.22	117	315	P	H
	*	2413.694	104.43	-	-	104.95	27.28	5.42	33.22	117	315	A	H
													H
													H
		2389.56	53.57	-20.43	74	54.19	27.23	5.39	33.24	389	242	P	V
		2389.83	45.89	-8.11	54	46.49	27.23	5.39	33.22	389	242	A	V
	*	2410.521	103.92	-	-	104.44	27.28	5.42	33.22	389	242	P	V
	*	2410.438	101.26	-	-	101.78	27.28	5.42	33.22	389	242	A	V
													V
													V
		2386.86	52.71	-21.29	74	53.33	27.23	5.39	33.24	114	315	P	H
		2386.32	44.92	-9.08	54	45.54	27.23	5.39	33.24	114	315	A	H
802.11b CH 06 2437MHz	*	2438.66	106.79	-	-	107.21	27.37	5.42	33.21	114	315	P	H
	*	2438.744	104.11	-	-	104.53	27.37	5.42	33.21	114	315	A	H
		2489.44	53.36	-20.64	74	53.58	27.5	5.46	33.18	114	315	P	H
		2495.04	44.1	-9.9	54	44.31	27.5	5.46	33.17	114	315	A	H
		2386.59	51.64	-22.36	74	52.26	27.23	5.39	33.24	382	235	P	V
		2386.32	42.68	-11.32	54	43.3	27.23	5.39	33.24	382	235	A	V
	*	2435.738	103.95	-	-	104.42	27.32	5.42	33.21	382	235	P	V
	*	2435.738	101.26	-	-	101.73	27.32	5.42	33.21	382	235	A	V
		2485.2	52.17	-21.83	74	52.43	27.46	5.46	33.18	382	235	P	V
		2494.96	41.91	-12.09	54	42.12	27.5	5.46	33.17	382	235	A	V



802.11b CH 11 2462MHz	*	2463.46	106.82	-	-	107.17	27.41	5.44	33.2	107	313	P	H
	*	2463.627	104.15	-	-	104.5	27.41	5.44	33.2	107	313	A	H
		2487.64	55.68	-18.32	74	55.9	27.5	5.46	33.18	107	313	P	H
		2487.6	49.09	-4.91	54	49.31	27.5	5.46	33.18	107	313	A	H
													H
													H
	*	2463.543	104.24	-	-	104.59	27.41	5.44	33.2	369	219	P	V
	*	2463.543	101.64	-	-	101.99	27.41	5.44	33.2	369	219	A	V
		2487.52	53.82	-20.18	74	54.04	27.5	5.46	33.18	369	219	P	V
		2487.6	46.48	-7.52	54	46.7	27.5	5.46	33.18	369	219	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	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	36.65	-37.35	74	58.22	31.46	7.58	60.61	100	0	P	H
													H
													H
													H
		4824	37.33	-36.67	74	58.9	31.46	7.58	60.61	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4872	40.06	-33.94	74	61.32	31.56	7.7	60.52	100	0	P	H
		7308	43.95	-30.05	74	59.21	36.18	9.49	60.93	100	0	P	H
													H
													H
		4872	40.58	-33.42	74	61.84	31.56	7.7	60.52	100	0	P	V
		7308	43.53	-30.47	74	58.79	36.18	9.49	60.93	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4926	38.43	-35.57	74	59.26	31.66	7.93	60.42	100	0	P	H
		7386	46.28	-27.72	74	61.57	36.37	9.53	61.19	100	0	P	H
													H
													H
		4926	40	-34	74	60.83	31.66	7.93	60.42	100	0	P	V
		7386	45.8	-28.2	74	61.09	36.37	9.53	61.19	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	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		2388.84	58.43	-15.57	74	59.05	27.23	5.39	33.24	114	319	P	H
		2390	47.56	-6.44	54	48.16	27.23	5.39	33.22	114	319	A	H
	*	2414	110.03	-	-	110.55	27.28	5.42	33.22	114	319	P	H
	*	2414	102.18	-	-	102.7	27.28	5.42	33.22	114	319	A	H
													H
													H
		2388.84	58.67	-15.33	74	59.29	27.23	5.39	33.24	384	246	P	V
		2390	46.71	-7.29	54	47.31	27.23	5.39	33.22	384	246	A	V
	*	2410	108.35	-	-	108.87	27.28	5.42	33.22	384	246	P	V
	*	2410	100.54	-	-	101.06	27.28	5.42	33.22	384	246	A	V
													V
													V
802.11g CH 06 2437MHz		2389.38	52.73	-21.27	74	53.35	27.23	5.39	33.24	112	289	P	H
		2390	42.47	-11.53	54	43.07	27.23	5.39	33.22	112	289	A	H
	*	2435	109.18	-	-	109.65	27.32	5.42	33.21	112	289	P	H
	*	2439	101.13	-	-	101.55	27.37	5.42	33.21	112	289	A	H
		2486.52	53.3	-20.7	74	53.56	27.46	5.46	33.18	112	289	P	H
		2483.52	43.16	-10.84	54	43.42	27.46	5.46	33.18	112	289	A	H
		2383.44	51.45	-22.55	74	52.11	27.19	5.39	33.24	374	234	P	V
		2390	41.39	-12.61	54	41.99	27.23	5.39	33.22	374	234	A	V
	*	2439	107.2	-	-	107.62	27.37	5.42	33.21	374	234	P	V
	*	2439	99.31	-	-	99.73	27.37	5.42	33.21	374	234	A	V
		2490.16	52.66	-21.34	74	52.88	27.5	5.46	33.18	374	234	P	V
		2483.56	42.06	-11.94	54	42.32	27.46	5.46	33.18	374	234	A	V



802.11g CH 11 2462MHz	*	2464	109.26	-	-	109.61	27.41	5.44	33.2	108	293	P	H
	*	2464	101.49	-	-	101.84	27.41	5.44	33.2	108	293	A	H
		2491.08	61.26	-12.74	74	61.48	27.5	5.46	33.18	108	293	P	H
		2483.52	49.11	-4.89	54	49.37	27.46	5.46	33.18	108	293	A	H
													H
													H
	*	2464	107.34	-	-	107.69	27.41	5.44	33.2	367	234	P	V
	*	2464	99.53	-	-	99.88	27.41	5.44	33.2	367	234	A	V
		2491.72	58.88	-15.12	74	59.1	27.5	5.46	33.18	367	234	P	V
		2483.52	47.13	-6.87	54	47.39	27.46	5.46	33.18	367	234	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	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	36.8	-37.2	74	58.37	31.46	7.58	60.61	100	0	P	H
													H
													H
													H
		4824	36.33	-37.67	74	57.9	31.46	7.58	60.61	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4872	31.62	-42.38	74	52.88	31.56	7.7	60.52	100	0	P	H
		7308	41.16	-32.84	74	56.42	36.18	9.49	60.93	100	0	P	H
													H
													H
		4872	37.1	-36.9	74	58.36	31.56	7.7	60.52	100	0	P	V
		7308	43.56	-30.44	74	58.82	36.18	9.49	60.93	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4926	37.34	-36.66	74	58.17	31.66	7.93	60.42	100	0	P	H
		7386	48.96	-25.04	74	64.25	36.37	9.53	61.19	100	0	P	H
													H
													H
		4926	37.01	-36.99	74	57.84	31.66	7.93	60.42	100	0	P	V
		7386	45.71	-28.29	74	61	36.37	9.53	61.19	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	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		2389.92	61.78	-12.22	74	62.38	27.23	5.39	33.22	115	315	P	H
		2389.56	51.03	-2.97	54	51.65	27.23	5.39	33.24	115	315	A	H
	*	2414	111.16	-	-	111.68	27.28	5.42	33.22	115	315	P	H
	*	2414	102.75	-	-	103.27	27.28	5.42	33.22	115	315	A	H
													H
													H
		2389.83	59.93	-14.07	74	60.53	27.23	5.39	33.22	395	242	P	V
		2390	49.41	-4.59	54	50.01	27.23	5.39	33.22	395	242	A	V
	*	2410	107.34	-	-	107.86	27.28	5.42	33.22	395	242	P	V
	*	2410	99.72	-	-	100.24	27.28	5.42	33.22	395	242	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2384.88	55.33	-18.67	74	55.99	27.19	5.39	33.24	115	316	P	H
		2389.56	44.45	-9.55	54	45.07	27.23	5.39	33.24	115	316	A	H
	*	2435	109.89	-	-	110.36	27.32	5.42	33.21	115	316	P	H
	*	2439	102.52	-	-	102.94	27.37	5.42	33.21	115	316	A	H
		2487.56	56.15	-17.85	74	56.37	27.5	5.46	33.18	115	316	P	H
		2484.24	44.63	-9.37	54	44.89	27.46	5.46	33.18	115	316	A	H
		2360.94	52.4	-21.6	74	53.18	27.14	5.33	33.25	382	234	P	V
		2389.11	42.63	-11.37	54	43.25	27.23	5.39	33.24	382	234	A	V
	*	2435	107.18	-	-	107.65	27.32	5.42	33.21	382	234	P	V
	*	2435	99.68	-	-	100.15	27.32	5.42	33.21	382	234	A	V
		2483.64	53.87	-20.13	74	54.13	27.46	5.46	33.18	382	234	P	V
		2483.68	42.78	-11.22	54	43.04	27.46	5.46	33.18	382	234	A	V



802.11n HT20 CH 11 2462MHz	*	2464	110.71	-	-	111.06	27.41	5.44	33.2	110	314	P	H
	*	2460	102.9	-	-	103.25	27.41	5.44	33.2	110	314	A	H
		2485.24	64.21	-9.79	74	64.47	27.46	5.46	33.18	110	314	P	H
		2483.6	50.65	-3.35	54	50.91	27.46	5.46	33.18	110	314	A	H
													H
													H
	*	2463.293	107.37	-	-	107.72	27.41	5.44	33.2	368	235	P	V
	*	2464	99.99	-	-	100.34	27.41	5.44	33.2	368	235	A	V
		2485.88	60.27	-13.73	74	60.53	27.46	5.46	33.18	368	235	P	V
		2483.68	48.48	-5.52	54	48.74	27.46	5.46	33.18	368	235	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	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	35.83	-38.17	74	57.4	31.46	7.58	60.61	100	0	P	H
													H
													H
													H
		4824	36.31	-37.69	74	57.88	31.46	7.58	60.61	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4872	36.48	-37.52	74	57.74	31.56	7.7	60.52	100	0	P	H
		7308	43.87	-30.13	74	59.13	36.18	9.49	60.93	100	0	P	H
													H
													H
		4872	36.36	-37.64	74	57.62	31.56	7.7	60.52	100	0	P	V
		7308	43.13	-30.87	74	58.39	36.18	9.49	60.93	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4926	37.06	-36.94	74	57.89	31.66	7.93	60.42	100	0	P	H
		7386	48.59	-25.41	74	63.88	36.37	9.53	61.19	100	0	P	H
													H
													H
		4926	37.44	-36.56	74	58.27	31.66	7.93	60.42	100	0	P	V
		7388	45.77	-28.23	74	61.06	36.37	9.53	61.19	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 HT40 (Band Edge @ 3m)

WIFI Ant. 1	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		2387.94	62.42	-11.58	74	63.04	27.23	5.39	33.24	114	315	P	H
		2388.57	53.02	-0.98	54	53.64	27.23	5.39	33.24	114	315	A	H
	*	2424	106.1	-	-	106.57	27.32	5.42	33.21	114	315	P	H
	*	2424	98.15	-	-	98.62	27.32	5.42	33.21	114	315	A	H
		2488.52	54.26	-19.74	74	54.48	27.5	5.46	33.18	114	315	P	H
		2489.76	45.06	-8.94	54	45.28	27.5	5.46	33.18	114	315	A	H
		2387.58	61.54	-12.46	74	62.16	27.23	5.39	33.24	386	238	P	V
		2388.93	51.96	-2.04	54	52.58	27.23	5.39	33.24	386	238	A	V
	*	2420	103.69	-	-	104.16	27.32	5.42	33.21	386	238	P	V
	*	2424	95.64	-	-	96.11	27.32	5.42	33.21	386	238	A	V
		2485.28	52.86	-21.14	74	53.12	27.46	5.46	33.18	386	238	P	V
		2492.6	43.68	-10.32	54	43.89	27.5	5.46	33.17	386	238	A	V
802.11n HT40 CH 06 2437MHz		2389.11	57.79	-16.21	74	58.41	27.23	5.39	33.24	110	315	P	H
		2389.74	48.79	-5.21	54	49.41	27.23	5.39	33.24	110	315	A	H
	*	2435	107.54	-	-	108.01	27.32	5.42	33.21	110	315	P	H
	*	2435	99.65	-	-	100.12	27.32	5.42	33.21	110	315	A	H
		2483.72	62.13	-11.87	74	62.39	27.46	5.46	33.18	110	315	P	H
		2483.52	50.88	-3.12	54	51.14	27.46	5.46	33.18	110	315	A	H
		2389.83	55	-19	74	55.6	27.23	5.39	33.22	382	238	P	V
		2389.83	46.24	-7.76	54	46.84	27.23	5.39	33.22	382	238	A	V
	*	2435	104.27	-	-	104.74	27.32	5.42	33.21	382	238	P	V
	*	2435	96.74	-	-	97.21	27.32	5.42	33.21	382	238	A	V
		2485.08	57.01	-16.99	74	57.27	27.46	5.46	33.18	382	238	P	V
		2483.52	46.55	-7.45	54	46.81	27.46	5.46	33.18	382	238	A	V



802.11n HT40 CH 09 2452MHz		2386.95	54.55	-19.45	74	55.17	27.23	5.39	33.24	111	314	P	H
		2386.86	46.28	-7.72	54	46.9	27.23	5.39	33.24	111	314	A	H
	*	2454	104.49	-	-	104.84	27.41	5.44	33.2	111	314	P	H
	*	2454	96.94	-	-	97.29	27.41	5.44	33.2	111	314	A	H
		2487	61.65	-12.35	74	61.91	27.46	5.46	33.18	111	314	P	H
		2483.92	53.24	-0.76	54	53.5	27.46	5.46	33.18	111	314	A	H
		2386.86	52.94	-21.06	74	53.56	27.23	5.39	33.24	372	240	P	V
		2386.77	43.91	-10.09	54	44.53	27.23	5.39	33.24	372	240	A	V
	*	2454	101.63	-	-	101.98	27.41	5.44	33.2	372	240	P	V
	*	2454	93.79	-	-	94.14	27.41	5.44	33.2	372	240	A	V
		2483.64	58.89	-15.11	74	59.15	27.46	5.46	33.18	372	240	P	V
		2484.56	50.02	-3.98	54	50.28	27.46	5.46	33.18	372	240	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	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		4842	36.7	-37.3	74	58.09	31.49	7.7	60.58	100	0	P	H
		7266	41.27	-32.73	74	56.53	36.11	9.46	60.83	100	0	P	H
													H
													H
		4842	35.14	-38.86	74	56.53	31.49	7.7	60.58	100	0	P	V
		7266	42.06	-31.94	74	57.32	36.11	9.46	60.83	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4872	36.3	-37.7	74	57.56	31.56	7.7	60.52	100	0	P	H
		7311	41.23	-32.77	74	56.49	36.18	9.49	60.93	100	0	P	H
													H
													H
		4872	36.03	-37.97	74	57.29	31.56	7.7	60.52	100	0	P	V
		7308	42.07	-31.93	74	57.33	36.18	9.49	60.93	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4902	37	-37	74	58.01	31.63	7.82	60.46	100	0	P	H
		7356	42.15	-31.85	74	57.43	36.3	9.51	61.09	100	0	P	H
													H
													H
		4902	38.02	-35.98	74	59.03	31.63	7.82	60.46	100	0	P	V
		7356	41.65	-32.35	74	56.93	36.3	9.51	61.09	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 802.11n HT40 (LF)

WIFI Ant. 1	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)
2.4GHz 802.11n HT40 LF		71.58	32.17	-7.83	40	51.32	12.64	0.93	32.72	-	-	P	H
		119.91	37.99	-5.51	43.5	51.8	17.7	1.14	32.65	-	-	P	H
		206.85	36.52	-6.98	43.5	51.5	16.13	1.62	32.73	-	-	P	H
		311.9	40.5	-5.5	46	51.31	20.05	1.88	32.74	103	328	P	H
		360.2	35.45	-10.55	46	44.96	21.35	1.94	32.8	-	-	P	H
		815.9	35.16	-10.84	46	36.39	28.49	3.07	32.79	-	-	P	H
													H
													H
													H
													H
													H
													H
		51.6	34.47	-5.53	40	51.71	14.6	0.93	32.77	100	35	P	V
		58.89	29.13	-10.87	40	48.75	12.2	0.93	32.75	-	-	P	V
		119.91	28.17	-15.33	43.5	41.98	17.7	1.14	32.65	-	-	P	V
		720	28.56	-17.44	46	31.62	27.09	2.82	32.97	-	-	P	V
		797.7	29.74	-16.26	46	31.38	28.27	2.97	32.88	-	-	P	V
		799.8	32.81	-13.19	46	34.42	28.3	2.97	32.88	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 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 11 2462MHz	*	2463.46	104.12	-	-	104.47	27.41	5.44	33.2	100	303	P	H
	*	2463.46	100.97	-	-	101.32	27.41	5.44	33.2	100	303	A	H
		2484.08	53.32	-20.68	74	53.58	27.46	5.46	33.18	100	303	P	H
		2494.24	44.61	-9.39	54	44.82	27.5	5.46	33.17	100	303	A	H
													H
													H
	*	2460.621	103.08	-	-	103.43	27.41	5.44	33.2	310	252	P	V
	*	2460.705	100.42	-	-	100.77	27.41	5.44	33.2	310	252	A	V
		2484.6	52.34	-21.66	74	52.6	27.46	5.46	33.18	310	252	P	V
		2487.44	44.62	-9.38	54	44.88	27.46	5.46	33.18	310	252	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. 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 11 2462MHz		4926	38.79	-35.21	74	59.62	31.66	7.93	60.42	100	0	P	H
		7386	45.94	-28.06	74	61.23	36.37	9.53	61.19	100	0	P	H
													H
													H
		4926	37.32	-36.68	74	58.15	31.66	7.93	60.42	100	0	P	V
		7386	42.78	-31.22	74	58.07	36.37	9.53	61.19	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 HT40 (Band Edge @ 3m)

WIFI Ant. 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		2388.93	56.6	-17.4	74	57.22	27.23	5.39	33.24	100	295	P	H
		2389.47	49.21	-4.79	54	49.83	27.23	5.39	33.24	100	295	A	H
	*	2424	105.35	-	-	105.82	27.32	5.42	33.21	100	295	P	H
	*	2424	97.62	-	-	98.09	27.32	5.42	33.21	100	295	A	H
		2485.76	53.85	-20.15	74	54.11	27.46	5.46	33.18	100	295	P	H
		2484.32	44.95	-9.05	54	45.21	27.46	5.46	33.18	100	295	A	H
		2383.35	53.8	-20.2	74	54.46	27.19	5.39	33.24	312	290	P	V
		2389.65	45.4	-8.6	54	46.02	27.23	5.39	33.24	312	290	A	V
	*	2423.965	102.65	-	-	103.12	27.32	5.42	33.21	312	290	P	V
	*	2424	94.85	-	-	95.32	27.32	5.42	33.21	312	290	A	V
		2487.6	53.47	-20.53	74	53.69	27.5	5.46	33.18	312	290	P	V
		2492.16	43.41	-10.59	54	43.62	27.5	5.46	33.17	312	290	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. 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		4842	36.99	-37.01	74	58.38	31.49	7.7	60.58	100	0	P	H
		7266	40.97	-33.03	74	56.23	36.11	9.46	60.83	100	0	P	H
													H
													H
		4842	36.36	-37.64	74	57.75	31.49	7.7	60.58	100	0	P	V
		7266	40.47	-33.53	74	55.73	36.11	9.46	60.83	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 802.11n HT40 (LF)

WIFI Ant. 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)
2.4GHz 802.11n HT40 LF		52.95	31.95	-8.05	40	49.79	14	0.93	32.77	-	-	P	H
		119.91	37.79	-5.71	43.5	51.6	17.7	1.14	32.65	-	-	P	H
		206.85	39.25	-4.25	43.5	54.23	16.13	1.62	32.73	100	323	P	H
		311.9	40.22	-5.78	46	51.03	20.05	1.88	32.74	-	-	P	H
		360.2	35.52	-10.48	46	45.03	21.35	1.94	32.8	-	-	P	H
		815.9	35.92	-10.08	46	37.15	28.49	3.07	32.79	-	-	P	H
													H
													H
													H
													H
													H
													H
		52.41	34.28	-5.72	40	51.82	14.3	0.93	32.77	102	19	P	V
		52.95	33.33	-6.67	40	51.17	14	0.93	32.77	-	-	P	V
		60.24	29.05	-10.95	40	48.97	11.9	0.93	32.75	-	-	P	V
		923	31.12	-14.88	46	30.12	29.86	3.2	32.06	-	-	P	V
		931.4	31.4	-14.6	46	30	30.08	3.29	31.97	-	-	P	V
		943.3	31.71	-14.29	46	29.82	30.44	3.29	31.84	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against 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		2387.22	59.66	-14.34	74	60.28	27.23	5.39	33.24	109	302	P	H
		2389.92	48.81	-5.19	54	49.41	27.23	5.39	33.22	109	302	A	H
	*	2414	111.29	-	-	111.81	27.28	5.42	33.22	109	302	P	H
	*	2414	104.15	-	-	104.67	27.28	5.42	33.22	109	302	A	H
													H
													H
		2389.83	55.02	-18.98	74	55.62	27.23	5.39	33.22	345	201	P	V
		2389.92	45.8	-8.2	54	46.4	27.23	5.39	33.22	345	201	A	V
	*	2414	108.24	-	-	108.76	27.28	5.42	33.22	345	201	P	V
	*	2414	101	-	-	101.52	27.28	5.42	33.22	345	201	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.02	57.1	-16.9	74	57.72	27.23	5.39	33.24	111	320	P	H
		2388.03	45.42	-8.58	54	46.04	27.23	5.39	33.24	111	320	A	H
	*	2435	112.4	-	-	112.87	27.32	5.42	33.21	111	320	P	H
	*	2435	104.79	-	-	105.26	27.32	5.42	33.21	111	320	A	H
		2483.64	58.51	-15.49	74	58.77	27.46	5.46	33.18	111	320	P	H
		2484.68	45.92	-8.08	54	46.18	27.46	5.46	33.18	111	320	A	H
		2382.72	52.82	-21.18	74	53.48	27.19	5.39	33.24	389	232	P	V
		2387.22	44.64	-9.36	54	45.26	27.23	5.39	33.24	389	232	A	V
	*	2439	111.67	-	-	112.09	27.37	5.42	33.21	389	232	P	V
	*	2439	104.12	-	-	104.54	27.37	5.42	33.21	389	232	A	V
		2483.76	54.96	-19.04	74	55.22	27.46	5.46	33.18	389	232	P	V
		2483.84	44.38	-9.62	54	44.64	27.46	5.46	33.18	389	232	A	V



802.11n HT20 CH 11 2462MHz	*	2464	113.17	-	-	113.52	27.41	5.44	33.2	101	300	P	H
	*	2464	105.95	-	-	106.3	27.41	5.44	33.2	101	300	A	H
		2486.28	62.64	-11.36	74	62.9	27.46	5.46	33.18	101	300	P	H
		2483.84	52.78	-1.22	54	53.04	27.46	5.46	33.18	101	300	A	H
													H
													H
	*	2460	109.45	-	-	109.8	27.41	5.44	33.2	372	198	P	V
	*	2464	102.24	-	-	102.59	27.41	5.44	33.2	372	198	A	V
		2484.84	59.18	-14.82	74	59.44	27.46	5.46	33.18	372	198	P	V
		2483.68	48.75	-5.25	54	49.01	27.46	5.46	33.18	372	198	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	36.31	-37.69	74	57.88	31.46	7.58	60.61	100	0	P	H
													H
													H
													H
		4824	35.74	-38.26	74	57.31	31.46	7.58	60.61	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4872	40.27	-33.73	74	61.53	31.56	7.7	60.52	100	0	P	H
		7313	48.24	-25.76	74	63.5	36.18	9.49	60.93	100	0	P	H
													H
													H
		4872	37.53	-36.47	74	58.79	31.56	7.7	60.52	100	0	P	V
		7313	44.87	-29.13	74	60.13	36.18	9.49	60.93	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4926	38.18	-35.82	74	59.01	31.66	7.93	60.42	100	0	P	H
		7386	52.58	-21.42	74	67.87	36.37	9.53	61.19	100	347	P	H
		7386	46.08	-7.92	54	61.37	36.37	9.53	61.19	100	347	A	H
													H
		4926	37.45	-36.55	74	58.28	31.66	7.93	60.42	100	0	P	V
		7386	48.45	-25.55	74	63.74	36.37	9.53	61.19	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 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		2386.5	60.76	-13.24	74	61.38	27.23	5.39	33.24	100	299	P	H
		2389.65	51.4	-2.6	54	52.02	27.23	5.39	33.24	100	299	A	H
	*	2424	107.86	-	-	108.33	27.32	5.42	33.21	100	299	P	H
	*	2424	100.46	-	-	100.93	27.32	5.42	33.21	100	299	A	H
		2486.76	55.56	-18.44	74	55.82	27.46	5.46	33.18	100	299	P	H
		2490.36	45.99	-8.01	54	46.21	27.5	5.46	33.18	100	299	A	H
		2389.92	57.06	-16.94	74	57.66	27.23	5.39	33.22	366	258	P	V
		2389.65	48.38	-5.62	54	49	27.23	5.39	33.24	366	258	A	V
	*	2424	104.38	-	-	104.85	27.32	5.42	33.21	366	258	P	V
	*	2424	96.59	-	-	97.06	27.32	5.42	33.21	366	258	A	V
		2493.84	52.24	-21.76	74	52.45	27.5	5.46	33.17	366	258	P	V
		2484.08	43.48	-10.52	54	43.74	27.46	5.46	33.18	366	258	A	V
802.11n HT40 CH 06 2437MHz		2388.93	59.6	-14.4	74	60.22	27.23	5.39	33.24	100	318	P	H
		2389.92	49.91	-4.09	54	50.51	27.23	5.39	33.22	100	318	A	H
	*	2435	109.46	-	-	109.93	27.32	5.42	33.21	100	318	P	H
	*	2435	101.72	-	-	102.19	27.32	5.42	33.21	100	318	A	H
		2484.36	59.54	-14.46	74	59.8	27.46	5.46	33.18	100	318	P	H
		2483.52	49.5	-4.5	54	49.76	27.46	5.46	33.18	100	318	A	H
		2376.51	51.66	-22.34	74	52.32	27.19	5.39	33.24	116	43	P	V
		2389.65	42.53	-11.47	54	43.15	27.23	5.39	33.24	116	43	A	V
	*	2439	100.83	-	-	101.25	27.37	5.42	33.21	116	43	P	V
	*	2439	92.85	-	-	93.27	27.37	5.42	33.21	116	43	A	V
		2484.08	53.26	-20.74	74	53.52	27.46	5.46	33.18	116	43	P	V
		2484.32	43.74	-10.26	54	44	27.46	5.46	33.18	116	43	A	V



802.11n HT40 CH 09 2452MHz		2386.32	53.02	-20.98	74	53.64	27.23	5.39	33.24	110	300	P	H
		2388.84	43.98	-10.02	54	44.6	27.23	5.39	33.24	110	300	A	H
	*	2454	106.74	-	-	107.09	27.41	5.44	33.2	110	300	P	H
	*	2453.774	99.22	-	-	99.57	27.41	5.44	33.2	110	300	A	H
		2486.24	58.66	-15.34	74	58.92	27.46	5.46	33.18	110	300	P	H
		2484.92	48.88	-5.12	54	49.14	27.46	5.46	33.18	110	300	A	H
		2360.76	51.96	-22.04	74	52.74	27.14	5.33	33.25	365	257	P	V
		2388.84	42.56	-11.44	54	43.18	27.23	5.39	33.24	365	257	A	V
	*	2450	102.65	-	-	103.04	27.37	5.44	33.2	365	257	P	V
	*	2450	94.92	-	-	95.31	27.37	5.44	33.2	365	257	A	V
		2489.08	53.89	-20.11	74	54.11	27.5	5.46	33.18	365	257	P	V
		2484.4	45.49	-8.51	54	45.75	27.46	5.46	33.18	365	257	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		4842	36.29	-37.71	74	57.68	31.49	7.7	60.58	100	0	P	H
		7266	40.35	-33.65	74	55.61	36.11	9.46	60.83	100	0	P	H
													H
													H
		4842	35.08	-38.92	74	56.47	31.49	7.7	60.58	100	0	P	V
		7266	40.5	-33.5	74	55.76	36.11	9.46	60.83	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4872	36.8	-37.2	74	58.06	31.56	7.7	60.52	100	0	P	H
		7313	45.02	-28.98	74	60.28	36.18	9.49	60.93	100	0	P	H
													H
													H
		4874	36.65	-37.35	74	57.91	31.56	7.7	60.52	100	0	P	V
		7313	43.28	-30.72	74	58.54	36.18	9.49	60.93	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4902	36.34	-37.66	74	57.35	31.63	7.82	60.46	100	0	P	H
		7356	41.87	-32.13	74	57.15	36.3	9.51	61.09	100	0	P	H
													H
													H
		4902	36.82	-37.18	74	57.83	31.63	7.82	60.46	100	0	P	V
		7356	40.72	-33.28	74	56	36.3	9.51	61.09	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 802.11n HT20 (LF)

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)
2.4GHz 802.11n HT20 LF		71.58	32.02	-7.98	40	51.17	12.64	0.93	32.72	-	-	P	H
		119.91	38.05	-5.45	43.5	51.86	17.7	1.14	32.65	-	-	P	H
		206.85	39.03	-4.47	43.5	54.01	16.13	1.62	32.73	100	298	P	H
		311.9	40.27	-5.73	46	51.08	20.05	1.88	32.74	-	-	P	H
		360.2	34.84	-11.16	46	44.35	21.35	1.94	32.8	-	-	P	H
		815.9	35.16	-10.84	46	36.39	28.49	3.07	32.79	-	-	P	H
													H
													H
													H
													H
													H
													H
		52.41	33.43	-6.57	40	50.97	14.3	0.93	32.77	100	26	P	V
		52.95	33.03	-6.97	40	50.87	14	0.93	32.77	-	-	P	V
		59.7	29.04	-10.96	40	48.96	11.9	0.93	32.75	-	-	P	V
		916	31.54	-14.46	46	30.83	29.64	3.2	32.13	-	-	P	V
		947.5	31.61	-14.39	46	29.56	30.55	3.29	31.79	-	-	P	V
		953.8	31.88	-14.12	46	29.72	30.59	3.29	31.72	-	-	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	H orizontal or V ertical

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

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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. 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)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. 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)

2. 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”.