



Appendix A. Radiated Spurious Emission

Test Engineer :	Luke Chang	Temperature :	16~18°C
		Relative Humidity :	41~43%

15C 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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.38	55.33	-18.67	74	55.32	27.23	6.02	33.24	296	158	P	H
		2389.92	46.12	-7.88	54	46.09	27.23	6.02	33.22	296	158	A	H
	*	2413.444	107.91	-	-	107.77	27.28	6.08	33.22	296	158	P	H
	*	2413.778	105.4	-	-	105.26	27.28	6.08	33.22	296	158	A	H
													H
													H
		2389.65	56.11	-17.89	74	56.1	27.23	6.02	33.24	311	208	P	V
		2389.83	47.55	-6.45	54	47.52	27.23	6.02	33.22	311	208	A	V
	*	2413.444	109.8	-	-	109.66	27.28	6.08	33.22	311	208	P	V
	*	2413.527	107.21	-	-	107.07	27.28	6.08	33.22	311	208	A	V
802.11b CH 06 2437MHz													V
		2381.46	55.72	-18.28	74	55.75	27.19	6.02	33.24	290	165	P	H
		2381.37	45.61	-8.39	54	45.64	27.19	6.02	33.24	290	165	A	H
	*	2435.822	108.28	-	-	108.09	27.32	6.08	33.21	290	165	P	H
	*	2435.571	105.71	-	-	105.52	27.32	6.08	33.21	290	165	A	H
		2493.12	56.47	-17.53	74	55.92	27.5	6.22	33.17	290	165	P	H
		2490.44	46.44	-7.56	54	45.9	27.5	6.22	33.18	290	165	A	H
		2373.63	57.87	-16.13	74	57.9	27.19	6.02	33.24	304	210	P	V
		2360.31	47.74	-6.26	54	47.87	27.14	5.98	33.25	304	210	A	V
	*	2435.571	110.63	-	-	110.44	27.32	6.08	33.21	304	210	P	V
	*	2435.655	108.1	-	-	107.91	27.32	6.08	33.21	304	210	A	V
		2492.96	58.8	-15.2	74	58.25	27.5	6.22	33.17	304	210	P	V
		2492.64	48.72	-5.28	54	48.17	27.5	6.22	33.17	304	210	A	V



802.11b CH 11 2462MHz	*	2460.705	105.2	-	-	104.84	27.41	6.15	33.2	242	197	P	H
	*	2460.788	102.63	-	-	102.27	27.41	6.15	33.2	242	197	A	H
		2484.04	55.52	-18.48	74	55.02	27.46	6.22	33.18	242	197	P	H
		2483.8	45.79	-8.21	54	45.29	27.46	6.22	33.18	242	197	A	H
													H
													H
	*	2460.454	111.14	-	-	110.78	27.41	6.15	33.2	242	197	P	V
	*	2460.788	108.62	-	-	108.26	27.41	6.15	33.2	242	197	A	V
		2486.12	59.71	-14.29	74	59.21	27.46	6.22	33.18	242	197	P	V
		2483.88	49.43	-4.57	54	48.93	27.46	6.22	33.18	242	197	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	45.95	-28.05	74	67.59	31.46	7.51	60.61	100	0	P	H
													H
													H
													H
		4824	44.29	-29.71	74	65.93	31.46	7.51	60.61	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	47.76	-26.24	74	69.18	31.56	7.54	60.52	100	0	P	H
		7311	37.67	-36.33	74	51.16	36.18	11.26	60.93	100	0	P	H
													H
													H
		4874	48.26	-25.74	74	69.68	31.56	7.54	60.52	100	0	P	V
		7311	59.16	-14.84	74	72.65	36.18	11.26	60.93	231	287	P	V
		7311	44.42	-9.58	54	57.91	36.18	11.26	60.93	231	287	A	V
													V
802.11b CH 11 2462MHz		4924	63.9	-10.1	74	85.06	31.66	7.6	60.42	312	86	P	H
		4924	49.09	-4.91	54	70.25	31.66	7.6	60.42	312	86	A	H
		7386	61.45	-12.55	74	74.59	36.37	11.68	61.19	174	253	P	H
		7386	46.09	-7.91	54	59.23	36.37	11.68	61.19	174	253	A	H
		4924	60.76	-13.24	74	81.92	31.66	7.6	60.42	100	147	P	V
		4924	45.76	-8.24	54	66.92	31.66	7.6	60.42	100	147	A	V
		7386	57.85	-16.15	74	70.99	36.37	11.68	61.19	254	131	P	V
		7386	42.8	-11.2	54	55.94	36.37	11.68	61.19	254	131	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.92	64.59	-9.41	74	64.56	27.23	6.02	33.22	106	231	P	H
		2390	51.42	-2.58	54	51.39	27.23	6.02	33.22	106	231	A	H
	*	2411	108.76	-	-	108.62	27.28	6.08	33.22	106	231	P	H
	*	2410.521	100.39	-	-	100.25	27.28	6.08	33.22	106	231	A	H
													H
													H
		2389.65	66.99	-7.01	74	66.98	27.23	6.02	33.24	249	187	P	V
		2390	53.99	-0.01	54	53.96	27.23	6.02	33.22	249	187	A	V
	*	2411	110.53	-	-	110.39	27.28	6.08	33.22	249	187	P	V
	*	2413.277	102.44	-	-	102.3	27.28	6.08	33.22	249	187	A	V
													V
													V
802.11g CH 06 2437MHz		2384.34	59.24	-14.76	74	59.27	27.19	6.02	33.24	103	231	P	H
		2384.61	49.97	-4.03	54	50	27.19	6.02	33.24	103	231	A	H
	*	2438	109.05	-	-	108.81	27.37	6.08	33.21	103	231	P	H
	*	2438	100.67	-	-	100.43	27.37	6.08	33.21	103	231	A	H
		2489.64	59.52	-14.48	74	58.98	27.5	6.22	33.18	103	231	P	H
		2489.48	51.37	-2.63	54	50.83	27.5	6.22	33.18	103	231	A	H
		2384.43	59.51	-14.49	74	59.54	27.19	6.02	33.24	306	213	P	V
		2384.61	51.1	-2.9	54	51.13	27.19	6.02	33.24	306	213	A	V
	*	2438	111.4	-	-	111.16	27.37	6.08	33.21	306	213	P	V
	*	2438	103.08	-	-	102.84	27.37	6.08	33.21	306	213	A	V
		2489.44	61.44	-12.56	74	60.9	27.5	6.22	33.18	306	213	P	V
		2489.48	53.38	-0.62	54	52.84	27.5	6.22	33.18	306	213	A	V



802.11g CH 11 2462MHz	*	2461	107.94	-	-	107.58	27.41	6.15	33.2	146	233	P	H
	*	2461	99.68	-	-	99.32	27.41	6.15	33.2	146	233	A	H
		2483.56	62.57	-11.43	74	62.07	27.46	6.22	33.18	146	233	P	H
		2483.6	49.9	-4.1	54	49.4	27.46	6.22	33.18	146	233	A	H
													H
													H
	*	2461	110.49	-	-	110.13	27.41	6.15	33.2	307	189	P	V
	*	2460.705	101.97	-	-	101.61	27.41	6.15	33.2	307	189	A	V
		2484.24	63.87	-10.13	74	63.37	27.46	6.22	33.18	307	189	P	V
		2483.52	50.85	-3.15	54	50.35	27.46	6.22	33.18	307	189	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	63.13	-10.87	74	84.77	31.46	7.51	60.61	231	101	P	H
		4824	40.89	-13.11	54	62.53	31.46	7.51	60.61	231	101	A	H
													H
													H
		4824	62.74	-11.26	74	84.38	31.46	7.51	60.61	270	299	P	V
		4824	40.55	-13.45	54	62.19	31.46	7.51	60.61	270	299	A	V
													V
													V
802.11g CH 06 2437MHz		4874	61.98	-12.02	74	83.4	31.56	7.54	60.52	317	110	P	H
		4874	39.23	-14.77	54	60.65	31.56	7.54	60.52	317	110	A	H
		7311	53.18	-20.82	74	66.67	36.18	11.26	60.93	157	63	P	H
		7311	37.55	-16.45	54	51.04	36.18	11.26	60.93	157	63	A	H
		4874	60.47	-13.53	74	81.89	31.56	7.54	60.52	311	325	P	V
		4874	40.95	-13.05	54	62.37	31.56	7.54	60.52	311	325	A	V
		7311	60.24	-13.76	74	73.73	36.18	11.26	60.93	230	170	P	V
		7311	41.71	-12.29	54	55.2	36.18	11.26	60.93	230	170	A	V
802.11g CH 11 2462MHz		4924	59.33	-14.67	74	80.49	31.66	7.6	60.42	308	99	P	H
		4924	44.32	-9.68	54	65.48	31.66	7.6	60.42	308	99	A	H
		7368	47.77	-26.23	74	60.9	36.33	11.68	61.14	100	0	P	H
													H
		4924	55.62	-18.38	74	76.78	31.66	7.6	60.42	242	157	P	V
		4924	36.58	-17.42	54	57.74	31.66	7.6	60.42	242	157	A	V
		7386	54.96	-19.04	74	68.1	36.37	11.68	61.19	187	223	P	V
		7386	40.04	-13.96	54	53.18	36.37	11.68	61.19	187	223	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2390	56.98	-17.02	74	56.95	27.23	6.02	33.22	249	242	P	H
		2360.22	46.27	-7.73	54	46.4	27.14	5.98	33.25	249	242	A	H
	*	2414	103.14	-	-	103	27.28	6.08	33.22	249	242	P	H
	*	2414	95.76	-	-	95.62	27.28	6.08	33.22	249	242	A	H
													H
													H
		2360.13	56.33	-17.67	74	56.46	27.14	5.98	33.25	252	188	P	V
		2360.13	47.61	-6.39	54	47.74	27.14	5.98	33.25	252	188	A	V
	*	2413	105.41	-	-	105.27	27.28	6.08	33.22	252	188	P	V
	*	2413.444	98.13	-	-	97.99	27.28	6.08	33.22	252	188	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2384.61	60.27	-13.73	74	60.3	27.19	6.02	33.24	153	231	P	H
		2384.97	51.17	-2.83	54	51.2	27.19	6.02	33.24	153	231	A	H
	*	2437	106.77	-	-	106.53	27.37	6.08	33.21	153	231	P	H
	*	2437	99.48	-	-	99.24	27.37	6.08	33.21	153	231	A	H
		2488.88	59.5	-14.5	74	58.96	27.5	6.22	33.18	153	231	P	H
		2489.16	50.86	-3.14	54	50.32	27.5	6.22	33.18	153	231	A	H
		2384.88	61.19	-12.81	74	61.22	27.19	6.02	33.24	313	210	P	V
		2384.88	52.76	-1.24	54	52.79	27.19	6.02	33.24	313	210	A	V
	*	2438	109.74	-	-	109.5	27.37	6.08	33.21	313	210	P	V
	*	2438	102.46	-	-	102.22	27.37	6.08	33.21	313	210	A	V
		2488.68	62.39	-11.61	74	61.85	27.5	6.22	33.18	313	210	P	V
		2489.16	53.88	-0.12	54	53.34	27.5	6.22	33.18	313	210	A	V



802.11n HT20 CH 11 2462MHz	*	2463	105.37	-	-	105.01	27.41	6.15	33.2	146	233	P	H
	*	2463	98.08	-	-	97.72	27.41	6.15	33.2	146	233	A	H
		2483.52	60.97	-13.03	74	60.47	27.46	6.22	33.18	146	233	P	H
		2483.52	49.18	-4.82	54	48.68	27.46	6.22	33.18	146	233	A	H
													H
													H
	*	2460	107.69	-	-	107.33	27.41	6.15	33.2	304	196	P	V
	*	2460.705	100.45	-	-	100.09	27.41	6.15	33.2	304	196	A	V
		2484.64	63.19	-10.81	74	62.69	27.46	6.22	33.18	304	196	P	V
		2483.52	50.58	-3.42	54	50.08	27.46	6.22	33.18	304	196	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	63.18	-10.82	74	84.82	31.46	7.51	60.61	289	95	P	H
		4824	41.69	-12.31	54	63.33	31.46	7.51	60.61	289	95	A	H
													H
													H
		4824	62.54	-11.46	74	84.18	31.46	7.51	60.61	321	325	P	V
		4824	40.89	-13.11	54	62.53	31.46	7.51	60.61	321	325	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	62.7	-11.3	74	84.12	31.56	7.54	60.52	314	101	P	H
		4874	46.95	-7.05	54	68.37	31.56	7.54	60.52	314	101	A	H
		7311	51.67	-22.33	74	65.16	36.18	11.26	60.93	257	303	P	H
		7311	38.24	-15.76	54	51.73	36.18	11.26	60.93	257	303	A	H
		4874	59.74	-14.26	74	81.16	31.56	7.54	60.52	293	115	P	V
		4874	45.11	-8.89	54	66.53	31.56	7.54	60.52	293	115	A	V
		7311	55.81	-18.19	74	69.3	36.18	11.26	60.93	193	261	P	V
		7311	41.39	-12.61	54	54.88	36.18	11.26	60.93	193	261	A	V
802.11n HT20 CH 11 2462MHz		4924	60.96	-13.04	74	82.12	31.66	7.6	60.42	314	77	P	H
		4924	36.52	-17.48	54	57.68	31.66	7.6	60.42	314	77	A	H
		7386	43.1	-30.9	74	56.24	36.37	11.68	61.19	100	0	P	H
													H
		4924	57.96	-16.04	74	79.12	31.66	7.6	60.42	263	307	P	V
		4924	44.81	-9.19	54	65.97	31.66	7.6	60.42	263	307	A	V
		7386	53.52	-20.48	74	66.66	36.37	11.68	61.19	247	131	P	V
		7386	41.62	-12.38	54	54.76	36.37	11.68	61.19	247	131	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2387.31	66.06	-7.94	74	66.05	27.23	6.02	33.24	109	231	P	H
		2389.65	52.28	-1.72	54	52.27	27.23	6.02	33.24	109	231	A	H
	*	2421	101.83	-	-	101.64	27.32	6.08	33.21	109	231	P	H
	*	2421	94.56	-	-	94.37	27.32	6.08	33.21	109	231	A	H
		2490.44	55.13	-18.87	74	54.59	27.5	6.22	33.18	109	231	P	H
		2491.48	45.65	-8.35	54	45.11	27.5	6.22	33.18	109	231	A	H
		2386.32	67.87	-6.13	74	67.86	27.23	6.02	33.24	312	210	P	V
		2389.92	53.23	-0.77	54	53.2	27.23	6.02	33.22	312	210	A	V
	*	2423	104.12	-	-	103.93	27.32	6.08	33.21	312	210	P	V
	*	2423.965	96.94	-	-	96.75	27.32	6.08	33.21	312	210	A	V
802.11n HT40 CH 06 2437MHz		2492.64	55.94	-18.06	74	55.39	27.5	6.22	33.17	312	210	P	V
		2485.8	46.78	-7.22	54	46.28	27.46	6.22	33.18	312	210	A	V
		2390	63.99	-10.01	74	63.96	27.23	6.02	33.22	103	232	P	H
		2389.83	48.35	-5.65	54	48.32	27.23	6.02	33.22	103	232	A	H
	*	2438	104.57	-	-	104.33	27.37	6.08	33.21	103	232	P	H
	*	2438	97.25	-	-	97.01	27.37	6.08	33.21	103	232	A	H
		2483.8	65.48	-8.52	74	64.98	27.46	6.22	33.18	103	232	P	H
		2484.16	50.21	-3.79	54	49.71	27.46	6.22	33.18	103	232	A	H
		2389.11	65.29	-8.71	74	65.28	27.23	6.02	33.24	308	209	P	V
		2388.75	50.37	-3.63	54	50.36	27.23	6.02	33.24	308	209	A	V
	*	2438	106.9	-	-	106.66	27.37	6.08	33.21	308	209	P	V
	*	2438	99.59	-	-	99.35	27.37	6.08	33.21	308	209	A	V
		2483.96	68.5	-5.5	74	68	27.46	6.22	33.18	308	209	P	V
		2484.16	52.58	-1.42	54	52.08	27.46	6.22	33.18	308	209	A	V



		2382.18	54.57	-19.43	74	54.6	27.19	6.02	33.24	151	232	P	H	
		2348.97	45.24	-8.76	54	45.41	27.1	5.98	33.25	151	232	A	H	
	*	2450	101.15	-	-	100.83	27.37	6.15	33.2	151	232	P	H	
	*	2450	93.98	-	-	93.66	27.37	6.15	33.2	151	232	A	H	
	802.11n	2487.4	62.96	-11.04	74	62.46	27.46	6.22	33.18	151	232	P	H	
	HT40	2483.76	51.39	-2.61	54	50.89	27.46	6.22	33.18	151	232	A	H	
	CH 09	2382.81	55.22	-18.78	74	55.25	27.19	6.02	33.24	245	194	P	V	
	2452MHz	2348.79	46.11	-7.89	54	46.28	27.1	5.98	33.25	245	194	A	V	
		*	2454	103.87	-	-	103.51	27.41	6.15	33.2	245	194	P	V
		*	2454	96.5	-	-	96.14	27.41	6.15	33.2	245	194	A	V
			2487.84	65.86	-8.14	74	65.32	27.5	6.22	33.18	245	194	P	V
			2483.72	53.48	-0.52	54	52.98	27.46	6.22	33.18	245	194	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		4844	58.26	-15.74	74	79.81	31.49	7.54	60.58	303	88	P	H
		4844	44.61	-9.39	54	66.16	31.49	7.54	60.58	303	88	A	H
		7266	48.03	-25.97	74	61.71	36.11	11.04	60.83	100	0	P	H
													H
		4844	55.46	-18.54	74	77.01	31.49	7.54	60.58	253	297	P	V
		4844	43.08	-10.92	54	64.63	31.49	7.54	60.58	253	297	A	V
		7266	53.66	-20.34	74	67.34	36.11	11.04	60.83	197	176	P	V
		7266	41.13	-12.87	54	54.81	36.11	11.04	60.83	197	176	A	V
802.11n HT40 CH 06 2437MHz		4874	59.12	-14.88	74	80.54	31.56	7.54	60.52	331	109	P	H
		4874	45.56	-8.44	54	66.98	31.56	7.54	60.52	331	109	A	H
		7311	55.94	-18.06	74	69.43	36.18	11.26	60.93	198	302	P	H
		7311	39.68	-14.32	54	53.17	36.18	11.26	60.93	198	302	A	H
		4874	55.74	-18.26	74	77.16	31.56	7.54	60.52	251	239	P	V
		4874	42.27	-11.73	54	63.69	31.56	7.54	60.52	251	239	A	V
		7311	56.67	-17.33	74	70.16	36.18	11.26	60.93	188	229	P	V
		7311	39.64	-14.36	54	53.13	36.18	11.26	60.93	188	229	A	V
802.11n HT40 CH 09 2452MHz		4904	58.4	-15.6	74	79.66	31.63	7.57	60.46	305	114	P	H
		4904	42.85	-11.15	54	64.11	31.63	7.57	60.46	305	114	A	H
		7356	46.91	-27.09	74	60.23	36.3	11.47	61.09	100	0	P	H
													H
		4904	51.27	-22.73	74	72.53	31.63	7.57	60.46	221	203	P	V
		4904	40.71	-13.29	54	61.97	31.63	7.57	60.46	221	203	A	V
		7356	53.32	-20.68	74	66.64	36.3	11.47	61.09	257	278	P	V
		7356	40.96	-13.04	54	54.28	36.3	11.47	61.09	257	278	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 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		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		35.13	30.44	-9.56	40	45.22	17.3	0.73	32.81	141	205	P	H
		105.06	32.08	-11.42	43.5	52.57	10.9	1.25	32.64			P	H
		149.61	29.38	-14.12	43.5	48.97	11.63	1.46	32.68			P	H
		401.5	36.4	-9.6	46	50.44	16.53	2.27	32.84			P	H
		479.2	34.91	-11.09	46	47.49	17.82	2.5	32.9			P	H
		750.1	30.03	-15.97	46	38.14	21.6	3.23	32.94			P	H
													H
													H
													H
													H
													H
													H
													H
													V
		35.4	36.02	-3.98	40	51.36	16.74	0.73	32.81	100	360	QP	V
		64.56	35.15	-4.85	40	60.48	6.4	1.01	32.74			P	V
		227.37	25.82	-20.18	46	45.94	10.83	1.78	32.73			P	V
		374.9	31.26	-14.74	46	45.94	15.86	2.27	32.81			P	V
		500.2	31.3	-14.7	46	43.48	18.2	2.54	32.92			P	V
		750.1	27.45	-18.55	46	35.56	21.6	3.23	32.94			P	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 per 15.209(c).
!	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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dB μ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB}/\text{m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86 (\text{dB})$$

For Peak Limit @ 2390MHz:

1. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB}/\text{m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB}\mu\text{V}/\text{m})$$

2. Over Limit(dB)

$$= \text{Level(dB}\mu\text{V}/\text{m)} - \text{Limit Line(dB}\mu\text{V}/\text{m)}$$

$$= 55.45(\text{dB}\mu\text{V}/\text{m}) - 74(\text{dB}\mu\text{V}/\text{m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

1. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB}/\text{m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB}\mu\text{V}/\text{m})$$

2. Over Limit(dB)

$$= \text{Level(dB}\mu\text{V}/\text{m)} - \text{Limit Line(dB}\mu\text{V}/\text{m)}$$

$$= 43.54(\text{dB}\mu\text{V}/\text{m}) - 54(\text{dB}\mu\text{V}/\text{m})$$

$$= -10.46(\text{dB})$$

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



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (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.	
2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2388.03	62.79	-11.21	74	62.78	27.23	6.02	33.24	238	169	P	H
		2359.86	52.47	-1.53	54	52.6	27.14	5.98	33.25	238	169	A	H
	*	2412	111	-	-	110.86	27.28	6.08	33.22	238	169	P	H
	*	2412	103.61	-	-	103.47	27.28	6.08	33.22	238	169	A	H
													H
													H
													V
		2387.94	61.74	-12.26	74	61.73	27.23	6.02	33.24	372	276	P	V
		2360.04	49.92	-4.08	54	50.05	27.14	5.98	33.25	372	276	A	V
	*	2411	106.83	-	-	106.69	27.28	6.08	33.22	372	276	P	V
	*	2411	99.48	-	-	99.34	27.28	6.08	33.22	372	276	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2384.79	62.19	-11.81	74	62.22	27.19	6.02	33.24	292	163	P	H
		2384.88	53.94	-0.06	54	53.97	27.19	6.02	33.24	292	163	A	H
	*	2437	110.83	-	-	110.59	27.37	6.08	33.21	292	163	P	H
	*	2437	103.53	-	-	103.29	27.37	6.08	33.21	292	163	A	H
		2489	61.37	-12.63	74	60.83	27.5	6.22	33.18	292	163	P	H
		2489	52.94	-1.06	54	52.4	27.5	6.22	33.18	292	163	A	H
		2384.34	58.93	-15.07	74	58.96	27.19	6.02	33.24	368	252	P	V
		2385.06	50.54	-3.46	54	50.57	27.19	6.02	33.24	368	252	A	V
	*	2438.326	107.15	-	-	106.91	27.37	6.08	33.21	368	252	P	V
	*	2439	99.92	-	-	99.68	27.37	6.08	33.21	368	252	A	V
		2489.32	57.18	-16.82	74	56.64	27.5	6.22	33.18	368	252	P	V
		2488.96	48.04	-5.96	54	47.5	27.5	6.22	33.18	368	252	A	V



	*	2461	110.18	-	-	109.82	27.41	6.15	33.2	233	151	P	H
	*	2461	102.8	-	-	102.44	27.41	6.15	33.2	233	151	A	H
		2485.4	58.52	-15.48	74	58.02	27.46	6.22	33.18	233	151	P	H
		2483.6	49.29	-4.71	54	48.79	27.46	6.22	33.18	233	151	A	H
													H
													H
802.11n													
HT20													
CH 11	*	2461	106.34	-	-	105.98	27.41	6.15	33.2	350	271	P	V
2462MHz	*	2461	98.94	-	-	98.58	27.41	6.15	33.2	350	271	A	V
		2485.36	57.08	-16.92	74	56.58	27.46	6.22	33.18	350	271	P	V
		2483.52	47.29	-6.71	54	46.79	27.46	6.22	33.18	350	271	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 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.	
2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	54.04	-19.96	74	75.68	31.46	7.51	60.61	310	122	P	H
		4824	39.49	-14.51	54	61.13	31.46	7.51	60.61	310	122	A	H
													H
													H
		4824	48.84	-25.16	74	70.48	31.46	7.51	60.61	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	56.94	-17.06	74	78.36	31.56	7.54	60.52	341	205	P	H
		4874	42.71	-11.29	54	64.13	31.56	7.54	60.52	341	205	A	H
		7311	54.09	-19.91	74	67.58	36.18	11.26	60.93	238	220	P	H
		7311	40.66	-13.34	54	54.15	36.18	11.26	60.93	238	220	A	H
		4874	51.68	-22.32	74	73.1	31.56	7.54	60.52	255	301	P	V
		4874	39.86	-14.14	54	61.28	31.56	7.54	60.52	255	301	A	V
		7311	55.14	-18.86	74	68.63	36.18	11.26	60.93	163	308	P	V
		7311	40.7	-13.3	54	54.19	36.18	11.26	60.93	163	308	A	V
802.11n HT20 CH 11 2462MHz		4924	59.91	-14.09	74	81.07	31.66	7.6	60.42	303	71	P	H
		4924	46.14	-7.86	54	67.3	31.66	7.6	60.42	303	71	A	H
		7386	56.77	-17.23	74	69.91	36.37	11.68	61.19	255	287	P	H
		7386	41.04	-12.96	54	54.18	36.37	11.68	61.19	255	287	A	H
		4924	51.08	-22.92	74	72.24	31.66	7.6	60.42	270	301	P	V
		4924	36.76	-17.24	54	57.92	31.66	7.6	60.42	270	301	A	V
		7386	50.97	-23.03	74	64.11	36.37	11.68	61.19	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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.	
2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2384.97	65.17	-8.83	74	65.2	27.19	6.02	33.24	237	167	P	H
		2389.74	52.18	-1.82	54	52.17	27.23	6.02	33.24	237	167	A	H
	*	2423	108.27	-	-	108.08	27.32	6.08	33.21	237	167	P	H
	*	2423	100.97	-	-	100.78	27.32	6.08	33.21	237	167	A	H
		2484.48	57	-17	74	56.5	27.46	6.22	33.18	237	167	P	H
		2483.64	47.41	-6.59	54	46.91	27.46	6.22	33.18	237	167	A	H
		2386.68	63.31	-10.69	74	63.3	27.23	6.02	33.24	362	251	P	V
		2390	49.43	-4.57	54	49.4	27.23	6.02	33.22	362	251	A	V
	*	2421	105.97	-	-	105.78	27.32	6.08	33.21	362	251	P	V
	*	2421	98.68	-	-	98.49	27.32	6.08	33.21	362	251	A	V
802.11n HT40 CH 06 2437MHz		2493.84	55.21	-18.79	74	54.66	27.5	6.22	33.17	362	251	P	V
		2487.64	45.98	-8.02	54	45.44	27.5	6.22	33.18	362	251	A	V
		2382.9	57.45	-16.55	74	57.48	27.19	6.02	33.24	356	173	P	H
		2388.93	48.17	-5.83	54	48.16	27.23	6.02	33.24	356	173	A	H
	*	2439	108.33	-	-	108.09	27.37	6.08	33.21	356	173	P	H
	*	2439	100.85	-	-	100.61	27.37	6.08	33.21	356	173	A	H
		2484.72	59.54	-14.46	74	59.04	27.46	6.22	33.18	356	173	P	H
		2484.2	48.88	-5.12	54	48.38	27.46	6.22	33.18	356	173	A	H
		2386.05	55.82	-18.18	74	55.81	27.23	6.02	33.24	360	253	P	V
		2389.65	46.79	-7.21	54	46.78	27.23	6.02	33.24	360	253	A	V
802.11n HT40 CH 06 2437MHz	*	2435	105.46	-	-	105.27	27.32	6.08	33.21	360	253	P	V
	*	2435	97.93	-	-	97.74	27.32	6.08	33.21	360	253	A	V
		2485.92	56.79	-17.21	74	56.29	27.46	6.22	33.18	360	253	P	V
		2484.04	46.53	-7.47	54	46.03	27.46	6.22	33.18	360	253	A	V



		2381.01	54.82	-19.18	74	54.85	27.19	6.02	33.24	358	174	P	H	
		2386.41	45.35	-8.65	54	45.34	27.23	6.02	33.24	358	174	A	H	
	*	2451	104.9	-	-	104.58	27.37	6.15	33.2	358	174	P	H	
	*	2451	97.73	-	-	97.41	27.37	6.15	33.2	358	174	A	H	
	802.11n	2484.52	62.75	-11.25	74	62.25	27.46	6.22	33.18	358	174	P	H	
	HT40	2483.56	50.97	-3.03	54	50.47	27.46	6.22	33.18	358	174	A	H	
	CH 09	2348.07	54.15	-19.85	74	54.32	27.1	5.98	33.25	367	254	P	V	
	2452MHz	2349.51	44.96	-9.04	54	45.13	27.1	5.98	33.25	367	254	A	V	
		*	2451	101.29	-	-	100.97	27.37	6.15	33.2	367	254	P	V
		*	2451	94.03	-	-	93.71	27.37	6.15	33.2	367	254	A	V
			2484.48	58.98	-15.02	74	58.48	27.46	6.22	33.18	367	254	P	V
			2483.84	47.75	-6.25	54	47.25	27.46	6.22	33.18	367	254	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 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.	
2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		4844	49.24	-24.76	74	70.79	31.49	7.54	60.58	100	0	P	H
		7266	50.69	-23.31	74	64.37	36.11	11.04	60.83	100	0	P	H
													H
													H
		4844	45.11	-28.89	74	66.66	31.49	7.54	60.58	100	0	P	V
		7266	51.86	-22.14	74	65.54	36.11	11.04	60.83	192	241	P	V
		7266	38.45	-15.55	54	52.13	36.11	11.04	60.83	192	241	A	V
													V
802.11n HT40 CH 06 2437MHz		4874	52.37	-21.63	74	73.79	31.56	7.54	60.52	208	140	P	H
		4874	34.9	-19.1	54	56.32	31.56	7.54	60.52	208	140	A	H
		7311	52.12	-21.88	74	65.61	36.18	11.26	60.93	172	300	P	H
		7311	37.7	-16.3	54	51.19	36.18	11.26	60.93	172	300	A	H
		4874	49.38	-24.62	74	70.8	31.56	7.54	60.52	100	0	P	V
		7311	51.84	-22.16	74	65.33	36.18	11.26	60.93	168	291	P	V
		7311	36.83	-17.17	54	50.32	36.18	11.26	60.93	168	291	A	V
													V
802.11n HT40 CH 09 2452MHz		4904	46.72	-27.28	74	67.98	31.63	7.57	60.46	100	0	P	H
		7356	47.36	-26.64	74	60.68	36.3	11.47	61.09	100	0	P	H
													H
													H
		4904	44.44	-29.56	74	65.7	31.63	7.57	60.46	100	0	P	V
		7356	46.51	-27.49	74	59.83	36.3	11.47	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.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency per 15.209(c).
!	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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

3. Level(dB μ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

4. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

3. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB μ V/m})$$

4. Over Limit(dB)

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 55.45(\text{dB μ V/m}) - 74(\text{dB μ V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

3. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB μ V/m})$$

4. Over Limit(dB)

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 43.54(\text{dB μ V/m}) - 54(\text{dB μ V/m})$$

$$= -10.46(\text{dB})$$

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



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.47	63.67	-10.33	74	63.66	27.23	6.02	33.24	298	165	P	H
		2360.04	53.01	-0.99	54	53.14	27.14	5.98	33.25	298	165	A	H
	*	2410	112.69	-	-	112.55	27.28	6.08	33.22	298	165	P	H
	*	2410.938	105.36	-	-	105.22	27.28	6.08	33.22	298	165	A	H
													H
													H
													V
		2389.02	62.9	-11.1	74	62.89	27.23	6.02	33.24	226	244	P	V
		2360.22	50.03	-3.97	54	50.16	27.14	5.98	33.25	226	244	A	V
	*	2413	107.55	-	-	107.41	27.28	6.08	33.22	226	244	P	V
802.11n HT20 CH 06 2437MHz	*	2413	100.26	-	-	100.12	27.28	6.08	33.22	226	244	A	V
													V
													V
		2384.79	62.51	-11.49	74	62.54	27.19	6.02	33.24	292	153	P	H
		2384.97	53.58	-0.42	54	53.61	27.19	6.02	33.24	292	153	A	H
	*	2436	111.02	-	-	110.83	27.32	6.08	33.21	292	153	P	H
	*	2436	103.81	-	-	103.62	27.32	6.08	33.21	292	153	A	H
		2489.28	62.17	-11.83	74	61.63	27.5	6.22	33.18	292	153	P	H
		2489.2	53.97	-0.03	54	53.43	27.5	6.22	33.18	292	153	A	H
		2384.88	58.83	-15.17	74	58.86	27.19	6.02	33.24	288	217	P	V



802.11n HT20 CH 11 2462MHz	*	2460.454	112.34	-	-	111.98	27.41	6.15	33.2	290	161	P	H
	*	2460.621	104.92	-	-	104.56	27.41	6.15	33.2	290	161	A	H
		2485.16	65.24	-8.76	74	64.74	27.46	6.22	33.18	290	161	P	H
		2483.52	53.39	-0.61	54	52.89	27.46	6.22	33.18	290	161	A	H
													H
													H
	*	2460.538	108.72	-	-	108.36	27.41	6.15	33.2	344	221	P	V
	*	2460.788	101.46	-	-	101.1	27.41	6.15	33.2	344	221	A	V
		2484.36	63.83	-10.17	74	63.33	27.46	6.22	33.18	344	221	P	V
		2483.52	50.7	-3.3	54	50.2	27.46	6.22	33.18	344	221	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	57.84	-16.16	74	79.48	31.46	7.51	60.61	274	102	P	H
		4824	42.66	-11.34	54	64.3	31.46	7.51	60.61	274	102	A	H
													H
													H
		4824	54.72	-19.28	74	76.36	31.46	7.51	60.61	259	271	P	V
		4824	39.16	-14.84	54	60.8	31.46	7.51	60.61	259	271	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	52.74	-21.26	74	74.16	31.56	7.54	60.52	302	271	P	H
		4874	38.59	-15.41	54	60.01	31.56	7.54	60.52	302	271	A	H
		7311	53.2	-20.8	74	66.69	36.18	11.26	60.93	241	268	P	H
		7311	37.59	-16.41	54	51.08	36.18	11.26	60.93	241	268	A	H
		4874	56.38	-17.62	74	77.8	31.56	7.54	60.52	256	89	P	V
		4874	39.36	-14.64	54	60.78	31.56	7.54	60.52	256	89	A	V
		7311	55.2	-18.8	74	68.69	36.18	11.26	60.93	241	209	P	V
		7311	39.77	-14.23	54	53.26	36.18	11.26	60.93	241	209	A	V
802.11n HT20 CH 11 2462MHz		4924	54.05	-19.95	74	75.21	31.66	7.6	60.42	202	74	P	H
		4924	39.62	-14.38	54	60.78	31.66	7.6	60.42	202	74	A	H
		7368	48.14	-25.86	74	61.27	36.33	11.68	61.14	203	0	P	H
													H
		4924	53.52	-20.48	74	74.68	31.66	7.6	60.42	103	201	P	V
		4924	38.46	-15.54	54	59.62	31.66	7.6	60.42	103	201	A	V
		7386	55.81	-18.19	74	68.95	36.37	11.68	61.19	100	74	P	V
		7386	40.49	-13.51	54	53.63	36.37	11.68	61.19	100	74	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2386.77	66.56	-7.44	74	66.55	27.23	6.02	33.24	367	157	P	H
		2390	53.15	-0.85	54	53.12	27.23	6.02	33.22	367	157	A	H
	*	2421	108.14	-	-	107.95	27.32	6.08	33.21	367	157	P	H
	*	2421	100.74	-	-	100.55	27.32	6.08	33.21	367	157	A	H
		2486.2	55.5	-18.5	74	55	27.46	6.22	33.18	367	157	P	H
		2486.08	46.06	-7.94	54	45.56	27.46	6.22	33.18	367	157	A	H
		2386.41	65.87	-8.13	74	65.86	27.23	6.02	33.24	283	212	P	V
		2390	51.85	-2.15	54	51.82	27.23	6.02	33.22	283	212	A	V
	*	2423	105.34	-	-	105.15	27.32	6.08	33.21	283	212	P	V
	*	2423.881	97.98	-	-	97.79	27.32	6.08	33.21	283	212	A	V
802.11n HT40 CH 06 2437MHz		2492.84	56.1	-17.9	74	55.55	27.5	6.22	33.17	283	212	P	V
		2498.04	47.07	-6.93	54	46.52	27.5	6.22	33.17	283	212	A	V
		2390	59.21	-14.79	74	59.18	27.23	6.02	33.22	296	163	P	H
		2389.56	47.94	-6.06	54	47.93	27.23	6.02	33.24	296	163	A	H
	*	2440.999	109.21	-	-	108.96	27.37	6.08	33.2	296	163	P	H
	*	2440.164	102.22	-	-	101.98	27.37	6.08	33.21	296	163	A	H
		2484.76	60.29	-13.71	74	59.79	27.46	6.22	33.18	296	163	P	H
		2483.52	48.64	-5.36	54	48.14	27.46	6.22	33.18	296	163	A	H
		2389.65	60.33	-13.67	74	60.32	27.23	6.02	33.24	288	218	P	V
		2333.67	47.02	-6.98	54	47.25	27.05	5.98	33.26	288	218	A	V
802.11n HT40 CH 06 2437MHz	*	2437	105.93	-	-	105.69	27.37	6.08	33.21	288	218	P	V
	*	2437	98.93	-	-	98.69	27.37	6.08	33.21	288	218	A	V
		2484.64	59.58	-14.42	74	59.08	27.46	6.22	33.18	288	218	P	V
		2484.12	47.76	-6.24	54	47.26	27.46	6.22	33.18	288	218	A	V



802.11n HT40 CH 09 2452MHz		2388.93	55.97	-18.03	74	55.96	27.23	6.02	33.24	286	168	P	H
		2383.35	46.98	-7.02	54	47.01	27.19	6.02	33.24	286	168	A	H
	*	2451	108.08	-	-	107.76	27.37	6.15	33.2	286	168	P	H
	*	2451	100.86	-	-	100.54	27.37	6.15	33.2	286	168	A	H
		2484.56	64.12	-9.88	74	63.62	27.46	6.22	33.18	286	168	P	H
		2483.6	53.93	-0.07	54	53.43	27.46	6.22	33.18	286	168	A	H
		2388.3	54.53	-19.47	74	54.52	27.23	6.02	33.24	343	233	P	V
		2348.43	45.71	-8.29	54	45.88	27.1	5.98	33.25	343	233	A	V
	*	2453	105.12	-	-	104.8	27.37	6.15	33.2	343	233	P	V
	*	2453	97.72	-	-	97.4	27.37	6.15	33.2	343	233	A	V
		2484.6	61.92	-12.08	74	61.42	27.46	6.22	33.18	343	233	P	V
		2483.92	50.96	-3.04	54	50.46	27.46	6.22	33.18	343	233	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		4844	55.25	-18.75	74	76.8	31.49	7.54	60.58	251	141	P	H
		4844	40.42	-13.58	54	61.97	31.49	7.54	60.58	251	141	A	H
		7266	48.63	-25.37	74	62.31	36.11	11.04	60.83	100	0	P	H
													H
		4844	51.99	-22.01	74	73.54	31.49	7.54	60.58	202	71	P	V
		4844	37.21	-16.79	54	58.76	31.49	7.54	60.58	202	71	A	V
		7266	54.7	-19.3	74	68.38	36.11	11.04	60.83	254	284	P	V
		7266	40.19	-13.81	54	53.87	36.11	11.04	60.83	254	284	A	V
802.11n HT40 CH 06 2437MHz		4874	59.41	-14.59	74	80.83	31.56	7.54	60.52	202	317	P	H
		4874	43.72	-10.28	54	65.14	31.56	7.54	60.52	202	317	A	H
		7311	50.36	-23.64	74	63.85	36.18	11.26	60.93	100	0	P	H
													H
		4874	56.73	-17.27	74	78.15	31.56	7.54	60.52	173	114	P	V
		4874	42.29	-11.71	54	63.71	31.56	7.54	60.52	173	114	A	V
		7311	56.34	-17.66	74	69.83	36.18	11.26	60.93	241	154	P	V
		7311	41.38	-12.62	54	54.87	36.18	11.26	60.93	241	154	A	V
802.11n HT40 CH 09 2452MHz		4904	49.96	-24.04	74	71.22	31.63	7.57	60.46	100	0	P	H
		7356	45.81	-28.19	74	59.13	36.3	11.47	61.09	100	0	P	H
													H
													H
		4904	49.15	-24.85	74	70.41	31.63	7.57	60.46	100	0	P	V
		7356	50.99	-23.01	74	64.31	36.3	11.47	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.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency per 15.209(c).
!	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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

5. Level(dB μ V/m) =

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

6. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

5. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB μ V/m})$$

6. Over Limit(dB)

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 55.45(\text{dB μ V/m}) - 74(\text{dB μ V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

5. Level(dB μ V/m)

$$= \text{Antenna Factor(dB/m)} + \text{Cable Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB μ V/m})$$

6. Over Limit(dB)

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 43.54(\text{dB μ V/m}) - 54(\text{dB μ V/m})$$

$$= -10.46(\text{dB})$$

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