



## Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang and Jacky Hung	Temperature :	20~23°C
		Relative Humidity :	55~60%

### 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		2389.485	59.27	-14.73	74	57.12	27.25	8.89	33.99	263	307	P	H
		2387.175	53.4	-0.6	54	51.25	27.25	8.89	33.99	263	307	A	H
	*	2412	114.79	-	-	112.59	27.29	8.89	33.98	263	307	P	H
	*	2412	111.05	-	-	108.85	27.29	8.89	33.98	263	307	A	H
													H
													H
		2387.07	54.65	-19.35	74	52.5	27.25	8.89	33.99	384	360	P	V
		2387.175	47.53	-6.47	54	45.38	27.25	8.89	33.99	384	360	A	V
	*	2412	106.69	-	-	104.49	27.29	8.89	33.98	384	360	P	V
	*	2412	103.19	-	-	100.99	27.29	8.89	33.98	384	360	A	V
													V
													V
802.11b CH 06 2437MHz		2388.96	54.94	-19.06	74	52.79	27.25	8.89	33.99	290	317	P	H
		2388.96	46.31	-7.69	54	44.16	27.25	8.89	33.99	290	317	A	H
	*	2437	116.98	-	-	114.63	27.38	8.94	33.97	290	317	P	H
	*	2437	113.46	-	-	111.11	27.38	8.94	33.97	290	317	A	H
		2484.25	54.87	-19.13	74	52.38	27.46	8.98	33.95	290	317	P	H
		2484.67	47.03	-6.97	54	44.54	27.46	8.98	33.95	290	317	A	H
		2364.6	54.01	-19.99	74	52.01	27.17	8.82	33.99	369	225	P	V
		2389.94	43.8	-10.2	54	41.64	27.25	8.89	33.98	369	225	A	V
	*	2437	111.8	-	-	109.45	27.38	8.94	33.97	369	225	P	V
	*	2437	108.16	-	-	105.81	27.38	8.94	33.97	369	225	A	V
		2490.13	53.26	-20.74	74	50.73	27.5	8.98	33.95	369	225	P	V
		2484.67	43.83	-10.17	54	41.34	27.46	8.98	33.95	369	225	A	V



<b>802.11b CH 11 2462MHz</b>	*	2462	113.45	-	-	111.01	27.42	8.98	33.96	290	322	P	H
	*	2462	109.79	-	-	107.35	27.42	8.98	33.96	290	322	A	H
		2483.56	57.83	-16.17	74	55.34	27.46	8.98	33.95	290	322	P	H
		2483.52	52.61	-1.39	54	50.12	27.46	8.98	33.95	290	322	A	H
													H
													H
	*	2462	107.56	-	-	105.12	27.42	8.98	33.96	359	226	P	V
	*	2462	104.09	-	-	101.65	27.42	8.98	33.96	359	226	A	V
		2483.68	55.94	-18.06	74	53.45	27.46	8.98	33.95	359	226	P	V
		2483.64	48.46	-5.54	54	45.97	27.46	8.98	33.95	359	226	A	V
													V
													V
<b>Remark</b>	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	43.54	-30.46	74	52.54	31.32	10.77	51.09	100	0	P	H
													H
													H
													H
		4824	44.6	-29.4	74	53.6	31.32	10.77	51.09	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	41.04	-32.96	74	49.81	31.41	10.88	51.06	100	0	P	H
		7311	51.58	-22.42	74	53.03	36.27	12.79	50.51	397	113	P	H
		7311	48.06	-5.94	54	49.51	36.27	12.79	50.51	397	113	A	H
													H
		4874	40.04	-33.96	74	48.81	31.41	10.88	51.06	100	0	P	V
		7311	55.27	-18.73	74	56.72	36.27	12.79	50.51	295	334	P	V
		7311	51.23	-2.77	54	52.68	36.27	12.79	50.51	295	334	A	V
													V
802.11b CH 11 2462MHz		4924	41.73	-32.27	74	50.28	31.49	11	51.04	100	0	P	H
		7386	42.57	-31.43	74	43.69	36.51	12.88	50.51	100	0	P	H
													H
													H
		4924	42.39	-31.61	74	50.94	31.49	11	51.04	100	0	P	V
		7386	45	-29	74	46.12	36.51	12.88	50.51	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 01 2412MHz		2390	63.83	-10.17	74	61.67	27.25	8.89	33.98	259	307	P	H
		2390	53.12	-0.88	54	50.96	27.25	8.89	33.98	259	307	A	H
	*	2412	110.3	-	-	108.1	27.29	8.89	33.98	259	307	P	H
	*	2412	101.83	-	-	99.63	27.29	8.89	33.98	259	307	A	H
													H
													H
		2389.905	62.42	-11.58	74	60.26	27.25	8.89	33.98	375	300	P	V
		2390	48.23	-5.77	54	46.07	27.25	8.89	33.98	375	300	A	V
	*	2412	104.19	-	-	101.99	27.29	8.89	33.98	375	300	P	V
	*	2412	95.86	-	-	93.66	27.29	8.89	33.98	375	300	A	V
													V
													V
802.11g CH 06 2437MHz		2389.94	61.37	-12.63	74	59.21	27.25	8.89	33.98	332	319	P	H
		2389.94	49.88	-4.12	54	47.72	27.25	8.89	33.98	332	319	A	H
	*	2437	116.64	-	-	114.29	27.38	8.94	33.97	332	319	P	H
	*	2437	108.52	-	-	106.17	27.38	8.94	33.97	332	319	A	H
		2484.46	66.68	-7.32	74	64.19	27.46	8.98	33.95	332	319	P	H
		2483.5	52.81	-1.19	54	50.32	27.46	8.98	33.95	332	319	A	H
		2389.66	58.9	-15.1	74	56.75	27.25	8.89	33.99	370	224	P	V
		2389.94	46.68	-7.32	54	44.52	27.25	8.89	33.98	370	224	A	V
	*	2437	112.23	-	-	109.88	27.38	8.94	33.97	370	224	P	V
	*	2437	104.15	-	-	101.8	27.38	8.94	33.97	370	224	A	V
		2483.83	61.13	-12.87	74	58.64	27.46	8.98	33.95	370	224	P	V
		2483.5	47.57	-6.43	54	45.08	27.46	8.98	33.95	370	224	A	V



<b>802.11g CH 11 2462MHz</b>	*	2462	108.2	-	-	105.76	27.42	8.98	33.96	289	322	P	H
	*	2462	99.45	-	-	97.01	27.42	8.98	33.96	289	322	A	H
		2483.68	66.95	-7.05	74	64.46	27.46	8.98	33.95	289	322	P	H
		2483.52	52.92	-1.08	54	50.43	27.46	8.98	33.95	289	322	A	H
													H
													H
	*	2462	101.44	-	-	99	27.42	8.98	33.96	400	295	P	V
	*	2462	93.41	-	-	90.97	27.42	8.98	33.96	400	295	A	V
		2483.52	60.95	-13.05	74	58.46	27.46	8.98	33.95	400	295	P	V
		2483.52	47.9	-6.1	54	45.41	27.46	8.98	33.95	400	295	A	V
													V
													V
<b>Remark</b>	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	32.29	-41.71	74	41.29	31.32	10.77	51.09	100	0	P	H
													H
													H
													H
		4824	32.58	-41.42	74	41.58	31.32	10.77	51.09	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	36.5	-37.5	74	45.27	31.41	10.88	51.06	100	0	P	H
		7311	55.9	-18.1	74	57.35	36.27	12.79	50.51	350	250	P	H
		7311	46.34	-7.66	54	47.79	36.27	12.79	50.51	350	250	A	H
													H
		4874	38.43	-35.57	74	47.2	31.41	10.88	51.06	100	0	P	V
		7311	60.06	-13.94	74	61.51	36.27	12.79	50.51	298	347	P	V
		7311	50.3	-3.7	54	51.75	36.27	12.79	50.51	298	347	A	V
													V
802.11g CH 11 2462MHz		4924	32.22	-41.78	74	40.77	31.49	11	51.04	100	0	P	H
		7386	37.26	-36.74	74	38.38	36.51	12.88	50.51	100	0	P	H
													H
													H
		4924	32.13	-41.87	74	40.68	31.49	11	51.04	100	0	P	V
		7386	38.66	-35.34	74	39.78	36.51	12.88	50.51	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 01 2412MHz		2390	68.15	-5.85	74	65.99	27.25	8.89	33.98	299	313	P	H
		2389.905	53.17	-0.83	54	51.01	27.25	8.89	33.98	299	313	A	H
	*	2412	109.88	-	-	107.68	27.29	8.89	33.98	299	313	P	H
	*	2412	101.96	-	-	99.76	27.29	8.89	33.98	299	313	A	H
													H
													H
		2389.8	63.59	-10.41	74	61.43	27.25	8.89	33.98	383	274	P	V
		2389.905	50.37	-3.63	54	48.21	27.25	8.89	33.98	383	274	A	V
	*	2412	106.05	-	-	103.85	27.29	8.89	33.98	383	274	P	V
	*	2412	97.57	-	-	95.37	27.29	8.89	33.98	383	274	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2388.68	63.98	-10.02	74	61.83	27.25	8.89	33.99	291	322	P	H
		2389.8	48.53	-5.47	54	46.37	27.25	8.89	33.98	291	322	A	H
	*	2437	116.93	-	-	114.58	27.38	8.94	33.97	291	322	P	H
	*	2437	108.89	-	-	106.54	27.38	8.94	33.97	291	322	A	H
		2484.6	67.4	-6.6	74	64.91	27.46	8.98	33.95	291	322	P	H
		2483.55	53.22	-0.78	54	50.73	27.46	8.98	33.95	291	322	A	H
		2388.12	56.62	-17.38	74	54.47	27.25	8.89	33.99	370	229	P	V
		2389.94	45.36	-8.64	54	43.2	27.25	8.89	33.98	370	229	A	V
	*	2437	113.06	-	-	110.71	27.38	8.94	33.97	370	229	P	V
	*	2437	104.24	-	-	101.89	27.38	8.94	33.97	370	229	A	V
		2485.09	62.18	-11.82	74	59.69	27.46	8.98	33.95	370	229	P	V
		2483.55	46.68	-7.32	54	44.19	27.46	8.98	33.95	370	229	A	V



<b>802.11n</b> <b>HT20</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	105.84	-	-	103.4	27.42	8.98	33.96	318	317	P	H
	*	2462	97.88	-	-	95.44	27.42	8.98	33.96	318	317	A	H
		2483.92	68.41	-5.59	74	65.92	27.46	8.98	33.95	318	317	P	H
		2483.52	53.28	-0.72	54	50.79	27.46	8.98	33.95	318	317	A	H
													H
													H
	*	2462	100.52	-	-	98.08	27.42	8.98	33.96	400	299	P	V
	*	2462	91.65	-	-	89.21	27.42	8.98	33.96	400	299	A	V
		2483.56	55.86	-18.14	74	53.37	27.46	8.98	33.95	400	299	P	V
		2483.52	46.36	-7.64	54	43.87	27.46	8.98	33.95	400	299	A	V
													V
													V
<b>Remark</b>	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	32.28	-41.72	74	41.28	31.32	10.77	51.09	100	0	P	H
													H
													H
													H
		4824	32.78	-41.22	74	41.78	31.32	10.77	51.09	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	37.99	-36.01	74	46.76	31.41	10.88	51.06	100	0	P	H
		7311	55	-19	74	56.45	36.27	12.79	50.51	190	331	P	H
		7311	43.69	-10.31	54	45.14	36.27	12.79	50.51	190	331	A	H
													H
		4874	38.62	-35.38	74	47.39	31.41	10.88	51.06	100	0	P	V
		7311	61.09	-12.91	74	62.54	36.27	12.79	50.51	300	349	P	V
		7311	48.2	-5.8	54	49.65	36.27	12.79	50.51	300	349	A	V
													V
802.11n HT20 CH 11 2462MHz		4924	32.1	-41.9	74	40.65	31.49	11	51.04	100	0	P	H
		7386	38.63	-35.37	74	39.75	36.51	12.88	50.51	100	0	P	H
													H
													H
		4924	32.52	-41.48	74	41.07	31.49	11	51.04	100	0	P	V
		7386	37.29	-36.71	74	38.41	36.51	12.88	50.51	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		2387.98	63.85	-10.15	74	61.7	27.25	8.89	33.99	291	322	P	H
		2388.26	51.94	-2.06	54	49.79	27.25	8.89	33.99	291	322	A	H
	*	2422	105.09	-	-	102.79	27.33	8.94	33.97	291	322	P	H
	*	2422	97.05	-	-	94.75	27.33	8.94	33.97	291	322	A	H
		2498.11	53.21	-20.79	74	50.67	27.5	8.98	33.94	291	322	P	H
		2483.97	44.8	-9.2	54	42.31	27.46	8.98	33.95	291	322	A	H
		2387.28	59.43	-14.57	74	57.28	27.25	8.89	33.99	368	227	P	V
		2387.28	46.97	-7.03	54	44.82	27.25	8.89	33.99	368	227	A	V
	*	2422	100.15	-	-	97.85	27.33	8.94	33.97	368	227	P	V
	*	2422	91.95	-	-	89.65	27.33	8.94	33.97	368	227	A	V
		2498.11	52.75	-21.25	74	50.21	27.5	8.98	33.94	368	227	P	V
		2494.75	44.19	-9.81	54	41.65	27.5	8.98	33.94	368	227	A	V
802.11n HT40 CH 06 2437MHz		2388.82	58.76	-15.24	74	56.61	27.25	8.89	33.99	292	323	P	H
		2389.8	48.52	-5.48	54	46.36	27.25	8.89	33.98	292	323	A	H
	*	2437	108.4	-	-	106.05	27.38	8.94	33.97	292	323	P	H
	*	2437	100.13	-	-	97.78	27.38	8.94	33.97	292	323	A	H
		2483.62	66.09	-7.91	74	63.6	27.46	8.98	33.95	292	323	P	H
		2483.55	53.16	-0.84	54	50.67	27.46	8.98	33.95	292	323	A	H
		2388.82	58.93	-15.07	74	56.78	27.25	8.89	33.99	370	261	P	V
		2389.94	48.98	-5.02	54	46.82	27.25	8.89	33.98	370	261	A	V
	*	2437	103.37	-	-	101.02	27.38	8.94	33.97	370	261	P	V
	*	2437	95.13	-	-	92.78	27.38	8.94	33.97	370	261	A	V
		2483.48	64.01	-67.19	131.2	61.52	27.46	8.98	33.95	370	261	P	V
		2483.83	53.15	-0.85	54	50.66	27.46	8.98	33.95	370	261	A	V



<b>802.11n</b>  <b>HT40</b>  <b>CH 09</b>  <b>2452MHz</b>		2318.26	52.76	-21.24	74	50.92	27.09	8.75	34	290	314	P	H
		2389.24	43.65	-10.35	54	41.5	27.25	8.89	33.99	290	314	A	H
	*	2452	103.51	-	-	101.15	27.38	8.94	33.96	290	314	P	H
	*	2452	94.84	-	-	92.48	27.38	8.94	33.96	290	314	A	H
		2484.11	64.93	-9.07	74	62.44	27.46	8.98	33.95	290	314	P	H
		2483.62	53.5	-0.5	54	51.01	27.46	8.98	33.95	290	314	A	H
		2349.48	52.98	-21.02	74	51.02	27.13	8.82	33.99	370	227	P	V
		2386.02	43.6	-10.4	54	41.45	27.25	8.89	33.99	370	227	A	V
	*	2452	98.36	-	-	96	27.38	8.94	33.96	370	227	P	V
	*	2452	90.12	-	-	87.76	27.38	8.94	33.96	370	227	A	V
		2483.83	60.85	-13.15	74	58.36	27.46	8.98	33.95	370	227	P	V
		2483.52	49.69	-4.31	54	47.2	27.46	8.98	33.95	370	227	A	V
<b>Remark</b>	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	33.09	-40.91	74	42.05	31.35	10.77	51.08	100	0	P	H
		7266	37.04	-36.96	74	38.64	36.17	12.74	50.51	100	0	P	H
													H
													H
		4844	31.41	-42.59	74	40.37	31.35	10.77	51.08	100	0	P	V
		7266	38	-36	74	39.6	36.17	12.74	50.51	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	31.89	-42.11	74	40.66	31.41	10.88	51.06	100	0	P	H
		7311	39.38	-34.62	74	40.83	36.27	12.79	50.51	100	0	P	H
													H
													H
		4874	31.37	-42.63	74	40.14	31.41	10.88	51.06	100	0	P	V
		7311	41.03	-32.97	74	42.48	36.27	12.79	50.51	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	33.23	-40.77	74	41.83	31.46	11	51.06	100	0	P	H
		7356	38.15	-35.85	74	39.42	36.41	12.83	50.51	100	0	P	H
													H
													H
		4904	32.63	-41.37	74	41.23	31.46	11	51.06	100	0	P	V
		7356	37.62	-36.38	74	38.89	36.41	12.83	50.51	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

## Emission below 1GHz

## 2.4GHz WIFI 802.11n HT40 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
2.4GHz 802.11n HT40 LF		31.62	23.28	-16.72	40	29.16	24.66	1.29	31.83	-	-	P	H
		89.13	21.08	-22.42	43.5	36.57	14.78	1.51	31.78	-	-	P	H
		264.09	24.86	-21.14	46	34.51	19.54	2.58	31.77	-	-	P	H
		400.1	31.41	-14.59	46	37.88	22.42	2.91	31.8	166	241	P	H
		600.3	31.14	-14.86	46	33.81	25.7	3.67	32.04	-	-	P	H
		993.7	33.66	-20.34	54	28.91	30.51	4.93	30.69	-	-	P	H
													H
													H
													H
													H
													H
		40.8	35.71	-4.29	40	46.5	19.74	1.29	31.82	215	322	P	V
		84.54	22.68	-17.32	40	38.78	14.18	1.51	31.79	-	-	P	V
		119.91	22.25	-21.25	43.5	34.55	17.7	1.78	31.78	-	-	P	V
		400.1	25.51	-20.49	46	31.98	22.42	2.91	31.8	-	-	P	V
		600.3	28.3	-17.7	46	30.97	25.7	3.67	32.04	-	-	P	V
		966.4	33.02	-20.98	54	28.67	30.57	4.69	30.91	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



**Note symbol**

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

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

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”.**