Appendix A. Radiated Spurious Emission

		Temperature :	18~20°C
Test Engineer :	Luke Chang	Relative Humidity :	41~42%

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.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.2	52.41	-21.59	74	48.95	31.94	6.17	34.65	170	40	Р	Н
		2378.31	39.56	-14.44	54	36.11	31.93	6.17	34.65	170	40	Α	Н
	*	2412	102.39	-	-	98.87	31.95	6.21	34.64	170	40	Р	Н
	*	2412	97.21	-	-	93.69	31.95	6.21	34.64	170	40	Α	Н
802.11b													Н
CH 01													Н
2412MHz		2378.67	47.4	-26.6	74	43.95	31.93	6.17	34.65	181	331	Р	V
241211112		2378.31	35.36	-18.64	54	31.91	31.93	6.17	34.65	181	331	Α	V
	*	2412	96.72	-	-	93.2	31.95	6.21	34.64	181	331	Р	V
	*	2412	91.45	-	-	87.93	31.95	6.21	34.64	181	331	Α	V
													V
													V
		2360.58	48.41	-25.59	74	45	31.92	6.14	34.65	311	42	Р	Н
		2385.78	36.64	-17.36	54	33.18	31.94	6.17	34.65	311	42	Α	Н
	*	2437	104.41	-	-	100.84	31.97	6.24	34.64	311	42	Р	Н
	*	2437	99.31	-	-	95.74	31.97	6.24	34.64	311	42	Α	Н
000 441		2484.08	51.39	-22.61	74	47.73	31.99	6.3	34.63	311	42	Р	Н
802.11b CH 06		2484.04	40.66	-13.34	54	37	31.99	6.3	34.63	311	42	Α	Н
2437MHz		2378.94	46.74	-27.26	74	43.29	31.93	6.17	34.65	134	119	Р	V
2437101112		2389.65	33.95	-20.05	54	30.49	31.94	6.17	34.65	134	119	Α	V
	*	2437	97.65	-	-	94.08	31.97	6.24	34.64	134	119	Р	V
	*	2437	91.96	-	-	88.39	31.97	6.24	34.64	134	119	Α	V
		2490.08	47.94	-26.06	74	44.27	32	6.3	34.63	134	119	Р	V
		2483.88	35.86	-18.14	54	32.2	31.99	6.3	34.63	134	119	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A1 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C

		104.24	-	-	100.63	31.98	6.27	34.64	157	75	Р	Н
*	2462	98.79	-	-	95.18	31.98	6.27	34.64	157	75	Α	Н
	2484.84	52.47	-21.53	74	48.81	31.99	6.3	34.63	157	75	Р	Н
	2488.72	41.61	-12.39	54	37.94	32	6.3	34.63	157	75	Α	Н
												Н
												Н
*	2462	99.42	-	-	95.81	31.98	6.27	34.64	172	114	Р	V
*	2462	94.42	-	-	90.81	31.98	6.27	34.64	172	114	Α	V
	2496.12	48.9	-25.1	74	45.19	32	6.34	34.63	172	114	Р	V
	2488.72	35.4	-18.6	54	31.73	32	6.3	34.63	172	114	Α	V
												V
												V
	*	* 2462 * 2462 2496.12 2488.72	* 2488.72 41.61 * 2462 99.42 * 2462 94.42 2496.12 48.9	* 2488.72 41.61 -12.39 * 2462 99.42 - * 2462 94.42 - 2496.12 48.9 -25.1 2488.72 35.4 -18.6	2488.72 41.61 -12.39 54 * 2462 99.42 - - * 2462 94.42 - - 2496.12 48.9 -25.1 74 2488.72 35.4 -18.6 54	2488.72 41.61 -12.39 54 37.94 * 2462 99.42 - - 95.81 * 2462 94.42 - - 90.81 2496.12 48.9 -25.1 74 45.19 2488.72 35.4 -18.6 54 31.73	2488.72 41.61 -12.39 54 37.94 32 * 2462 99.42 - - 95.81 31.98 * 2462 94.42 - - 90.81 31.98 2496.12 48.9 -25.1 74 45.19 32 2488.72 35.4 -18.6 54 31.73 32	2488.72 41.61 -12.39 54 37.94 32 6.3 * 2462 99.42 - - 95.81 31.98 6.27 * 2462 94.42 - - 90.81 31.98 6.27 2496.12 48.9 -25.1 74 45.19 32 6.34 2488.72 35.4 -18.6 54 31.73 32 6.3	2488.72 41.61 -12.39 54 37.94 32 6.3 34.63 * 2462 99.42 - - 95.81 31.98 6.27 34.64 * 2462 94.42 - - 90.81 31.98 6.27 34.64 2496.12 48.9 -25.1 74 45.19 32 6.34 34.63 2488.72 35.4 -18.6 54 31.73 32 6.3 34.63	2488.72 41.61 -12.39 54 37.94 32 6.3 34.63 157 * 2462 99.42 - - 95.81 31.98 6.27 34.64 172 * 2462 94.42 - - 90.81 31.98 6.27 34.64 172 2496.12 48.9 -25.1 74 45.19 32 6.34 34.63 172 2488.72 35.4 -18.6 54 31.73 32 6.3 34.63 172	2488.72 41.61 -12.39 54 37.94 32 6.3 34.63 157 75 * 2462 99.42 - - 95.81 31.98 6.27 34.64 172 114 * 2462 94.42 - - 90.81 31.98 6.27 34.64 172 114 2496.12 48.9 -25.1 74 45.19 32 6.34 34.63 172 114 2488.72 35.4 -18.6 54 31.73 32 6.3 34.63 172 114	2488.72 41.61 -12.39 54 37.94 32 6.3 34.63 157 75 A * 2462 99.42 - - 95.81 31.98 6.27 34.64 172 114 P * 2462 94.42 - - 90.81 31.98 6.27 34.64 172 114 A 2496.12 48.9 -25.1 74 45.19 32 6.34 34.63 172 114 P 2488.72 35.4 -18.6 54 31.73 32 6.3 34.63 172 114 A

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

Page Number : A2 of A23 Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

Report No.: FR491670-01C

All results are PASS against Peak and Average limit line.

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.	
2		(MHz)	(dBµV/m)		(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4824	42.87	-31.13	74	60.72	34.36	8.6	60.81	100	0	Р	Н
													Н
													Н
802.11b													Н
CH 01		4824	44.12	-29.88	74	61.97	34.36	8.6	60.81	100	0	Р	V
2412MHz													V
													V
													V
		4874	42.35	-31.65	74	59.87	34.4	8.77	60.69	100	0	Р	Н
		7311	45.23	-28.77	74	58.07	35.74	11.94	60.52	100	0	Р	Н
													Н
802.11b													Н
CH 06		4874	43.63	-30.37	74	61.15	34.4	8.77	60.69	100	0	Р	V
2437MHz		7311	49.29	-24.71	74	62.13	35.74	11.94	60.52	100	0	Р	V
													V
													V
		4924	42.73	-31.27	74	59.92	34.44	8.94	60.57	100	0	Р	Н
		7386	44.93	-29.07	74	57.79	35.72	11.98	60.56	100	0	Р	Н
													Н
802.11b													Н
CH 11 2462MHz		4924	44.33	-29.67	74	61.52	34.44	8.94	60.57	100	0	Р	V
Z4UZIVINZ		7386	46.41	-27.59	74	59.27	35.72	11.98	60.56	100	0	Р	V
													V
													V
Remark	1. No	o other spuriou	s found.			_		_					
IVEIIIAI N	2. All	results are PA	SS against F	Peak and	l Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

Page Number : A3 of A23 Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

Report No.: FR491670-01C

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.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2390	61.77	-12.23	74	58.26	31.94	6.21	34.64	311	76	Р	Н
		2390	43.92	-10.08	54	40.41	31.94	6.21	34.64	311	76	Α	Н
	*	2412	102.78	-	-	99.26	31.95	6.21	34.64	311	76	Р	Н
	*	2412	91.08	-	-	87.56	31.95	6.21	34.64	311	76	Α	Н
802.11g													Н
CH 01													Н
2412MHz		2389.47	51.77	-22.23	74	48.31	31.94	6.17	34.65	154	352	Р	V
241211112		2390.01	36.13	-17.87	54	32.62	31.94	6.21	34.64	154	352	Α	V
	*	2412	97.04	-	-	93.52	31.95	6.21	34.64	154	352	Р	V
	*	2412	86	-	-	82.48	31.95	6.21	34.64	154	352	Α	V
													V
													V
		2389.83	56.35	-17.65	74	52.84	31.94	6.21	34.64	312	44	Р	Н
		2390	40.91	-13.09	54	37.4	31.94	6.21	34.64	312	44	Α	Н
	*	2437	107.51	-	-	103.94	31.97	6.24	34.64	312	44	Р	Н
	*	2437	95.95	-	-	92.38	31.97	6.24	34.64	312	44	Α	Н
000 44		2491.96	57.11	-16.89	74	53.4	32	6.34	34.63	312	44	Р	Н
802.11g CH 06		2483.6	42.67	-11.33	54	39.01	31.99	6.3	34.63	312	44	Α	Н
2437MHz		2389.74	49.87	-24.13	74	46.41	31.94	6.17	34.65	146	110	Р	V
2437141112		2390	36.85	-17.15	54	33.34	31.94	6.21	34.64	146	110	Α	V
	*	2437	102.9	-	-	99.33	31.97	6.24	34.64	146	110	Р	V
	*	2437	91.05	-	-	87.48	31.97	6.24	34.64	146	110	Α	V
		2485.16	49.61	-24.39	74	45.95	31.99	6.3	34.63	146	110	Р	V
		2483.52	36.63	-17.37	54	32.97	31.99	6.3	34.63	146	110	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A4 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C



FCC RF Test Report

	*	2462	106.3	-	-	102.69	31.98	6.27	34.64	186	72	Р	Н
	*	2462	94.82	-	-	91.21	31.98	6.27	34.64	186	72	Α	Н
		2483.6	67.76	-6.24	74	64.1	31.99	6.3	34.63	186	72	Р	Н
		2483.52	48.13	-5.87	54	44.47	31.99	6.3	34.63	186	72	Α	Н
000.44													Н
802.11g CH 11													Н
2462MHz	*	2462	100.92	-	-	97.31	31.98	6.27	34.64	325	145	Р	V
2402111112	*	2462	89.85	-	-	86.24	31.98	6.27	34.64	325	145	Α	V
		2483.68	65.32	-8.68	74	61.66	31.99	6.3	34.63	325	145	Р	V
		2483.52	43.91	-10.09	54	40.25	31.99	6.3	34.63	325	145	Α	V
													V
													V
Remark	1. N	o other spurious	s found.										
- Tomark	2. AI	l results are PA	SS against F	Peak and	Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A5 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report Template No.: BU5-FR15CWL Version 1.0

Report No. : FR491670-01C

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.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4824	39.78	-34.22	74	57.63	34.36	8.6	60.81	100	0	Р	Н
													Η
													Н
802.11g													Н
CH 01		4824	40.03	-33.97	74	57.88	34.36	8.6	60.81	100	0	Р	٧
2412MHz													٧
													V
													V
		4874	38.86	-35.14	74	56.38	34.4	8.77	60.69	100	0	Р	Н
		7311	46.58	-27.42	74	59.42	35.74	11.94	60.52	100	0	Р	Н
													Н
802.11g													Н
CH 06		4874	40.06	-33.94	74	57.58	34.4	8.77	60.69	100	0	Р	V
2437MHz		7311	51.47	-22.53	74	64.31	35.74	11.94	60.52	169	93	Р	V
		7311	46.28	-7.72	54	59.12	35.74	11.94	60.52	169	93	Α	V
													V
		4924	39.71	-34.29	74	56.9	34.44	8.94	60.57	100	0	Р	Н
		7386	44.62	-29.38	74	57.48	35.72	11.98	60.56	100	0	Р	Н
													Н
802.11g													Н
CH 11 2462MHz		4924	40	-34	74	57.19	34.44	8.94	60.57	100	0	Р	٧
2402WII 12		7386	46.45	-27.55	74	59.31	35.72	11.98	60.56	100	0	Р	V
													V
													V
Remark	1. No	o other spurious	s found.	•					•		•	•	
Remark	2. All	l results are PA	.SS against F	Peak and	l Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A6 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2390	66.62	-7.38	74	63.11	31.94	6.21	34.64	347	40	Р	Н
		2390	46.89	-7.11	54	43.38	31.94	6.21	34.64	347	40	Α	Н
	*	2412	102.91	-	-	99.39	31.95	6.21	34.64	347	40	Р	Н
	*	2412	91.5	1	-	87.98	31.95	6.21	34.64	347	40	Α	Н
802.11n													Н
HT20													Н
CH 01		2389.74	60.75	-13.25	74	57.29	31.94	6.17	34.65	148	333	Р	V
2412MHz		2390	43.08	-10.92	54	39.57	31.94	6.21	34.64	148	333	Α	V
	*	2412	97.39	-	-	93.87	31.95	6.21	34.64	148	333	Р	V
	*	2412	86.06	-	-	82.54	31.95	6.21	34.64	148	333	Α	V
													٧
													V
		2388.57	58.09	-15.91	74	54.63	31.94	6.17	34.65	235	28	Р	Н
		2390	43.03	-10.97	54	39.52	31.94	6.21	34.64	235	28	Α	Н
	*	2437	108.41	-	-	104.84	31.97	6.24	34.64	235	28	Р	Н
	*	2437	96.8	-	-	93.23	31.97	6.24	34.64	235	28	Α	Н
802.11n		2486.16	55.59	-18.41	74	51.93	31.99	6.3	34.63	235	28	Р	Н
HT20		2483.52	42.28	-11.72	54	38.62	31.99	6.3	34.63	235	28	Α	Н
CH 06		2389.56	48.96	-25.04	74	45.5	31.94	6.17	34.65	136	120	Р	V
2437MHz		2390	35.96	-18.04	54	32.45	31.94	6.21	34.64	136	120	Α	V
	*	2437	101.17	-	-	97.6	31.97	6.24	34.64	136	120	Р	V
	*	2437	90	-	-	86.43	31.97	6.24	34.64	136	120	Α	V
		2484.6	52.09	-21.91	74	48.43	31.99	6.3	34.63	136	120	Р	V
		2483.56	38.42	-15.58	54	34.76	31.99	6.3	34.63	136	120	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A7 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C



103.42 31.98 Р 2462 107.03 6.27 34.64 204 4 Н * 2462 95.46 91.85 31.98 6.27 34.64 204 4 Н Α 2484.92 72.75 -1.25 74 69.09 31.99 6.3 34.63 204 4 Ρ Н 2483.52 52.27 -1.73 54 48.61 31.99 6.3 34.63 204 4 Р Н Н 802.11n HT20 Н CH 11 ٧ 2465.381 100.76 97.15 31.98 6.27 34.64 153 331 2462MHz 2466.132 31.98 153 ٧ 89.4 85.79 6.27 34.64 331 Α ٧ 2483.6 74 31.99 34.63 153 331 Ρ 64.26 -9.74 60.6 6.3 2483.52 43.66 -10.34 54 40 31.99 34.63 153 331 Α ٧ 6.3 ٧ ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A8 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V
		4824	39.36	-34.64	74	57.21	34.36	8.6	60.81	100	0	Р	Н
													Н
802.11n													Н
HT20													Н
CH 01		4824	39.45	-34.55	74	57.3	34.36	8.6	60.81	100	0	Р	V
2412MHz													V
													V
													V
		4874	39.06	-34.94	74	56.58	34.4	8.77	60.69	100	0	Р	Н
		7311	47.38	-26.62	74	60.22	35.74	11.94	60.52	100	0	Р	Н
802.11n													Н
HT20													Н
CH 06		4874	39.21	-34.79	74	56.73	34.4	8.77	60.69	100	0	Р	V
2437MHz		7311	52.44	-21.56	74	65.28	35.74	11.94	60.52	153	67	Р	٧
		7311	47.33	-6.67	54	60.17	35.74	11.94	60.52	153	67	Α	V
													V
		4924	40.35	-33.65	74	57.54	34.44	8.94	60.57	100	0	Р	Н
		7386	45.92	-28.08	74	58.78	35.72	11.98	60.56	100	0	Р	Н
802.11n													Н
HT20													Н
CH 11		4924	39.74	-34.26	74	56.93	34.44	8.94	60.57	100	0	Р	V
2462MHz		7386	47.07	-26.93	74	59.93	35.72	11.98	60.56	100	0	Р	V
													V
													V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

Page Number : A9 of A23 Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

Report No.: FR491670-01C

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2387.85	60.94	-13.06	74	57.48	31.94	6.17	34.65	233	27	Р	Н
		2389.92	47.83	-6.17	54	44.32	31.94	6.21	34.64	233	27	Α	Н
	*	2422	100.01	-	-	96.45	31.96	6.24	34.64	233	27	Р	Н
	*	2422	90.39	1	-	86.83	31.96	6.24	34.64	233	27	Α	Н
802.11n		2489.68	50.42	-23.58	74	46.75	32	6.3	34.63	233	27	Р	Н
HT40		2492.24	38.14	-15.86	54	34.43	32	6.34	34.63	233	27	Α	Н
CH 03		2390.01	55.48	-18.52	74	51.97	31.94	6.21	34.64	151	99	Р	V
2422MHz		2389.83	43.21	-10.79	54	39.7	31.94	6.21	34.64	151	99	Α	V
	*	2422	92.18	-	-	88.62	31.96	6.24	34.64	151	99	Р	V
	*	2422	82.45	-	-	78.89	31.96	6.24	34.64	151	99	Α	V
		2493.2	46.84	-27.16	74	43.13	32	6.34	34.63	151	99	Р	V
		2496.12	34.74	-19.26	54	31.03	32	6.34	34.63	151	99	Α	V
		2389.83	67.84	-6.16	74	64.33	31.94	6.21	34.64	211	27	Р	Н
		2389.74	51.16	-2.84	54	47.7	31.94	6.17	34.65	211	27	Α	Н
	*	2437	105.51	-	-	101.94	31.97	6.24	34.64	211	27	Р	Н
	*	2437	95.37	-	-	91.8	31.97	6.24	34.64	211	27	Α	Н
802.11n		2484.32	65.68	-8.32	74	62.02	31.99	6.3	34.63	211	27	Р	Н
HT40		2483.64	50.39	-3.61	54	46.73	31.99	6.3	34.63	211	27	Α	Н
CH 06		2389.74	57.23	-16.77	74	53.77	31.94	6.17	34.65	176	207	Р	V
2437MHz		2390	43.78	-10.22	54	40.27	31.94	6.21	34.64	176	207	Α	V
	*	2437	98.83	-	-	95.26	31.97	6.24	34.64	176	207	Р	V
	*	2437	88.86	-	-	85.29	31.97	6.24	34.64	176	207	Α	V
		2484.48	57.44	-16.56	74	53.78	31.99	6.3	34.63	176	207	Р	V
		2483.68	42.83	-11.17	54	39.17	31.99	6.3	34.63	176	207	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A10 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C



Р 2389.47 50.76 -23.24 74 47.3 31.94 6.17 34.65 334 53 Н 2389.38 39.26 -14.74 35.8 31.94 34.65 334 54 6.17 53 Α Н 2452 103.4 99.8 31.97 6.27 34.64 334 Ρ 53 Н 2452 93.39 89.79 31.97 6.27 34.64 334 53 Α Н 2484.2 66.69 -7.31 74 63.03 31.99 6.3 34.63 334 53 Ρ Н 802.11n 2483.52 HT40 52.52 -1.48 54 48.86 31.99 6.3 34.63 334 53 Α Н **CH 09** Ρ 2389.65 48.16 -25.84 74 44.7 31.94 34.65 165 336 V 6.17 2452MHz ٧ 2389.56 36.23 -17.77 54 32.77 31.94 6.17 34.65 165 336 Α 2452 97.5 31.97 34.64 165 336 ٧ 93.9 6.27 31.97 2452 87.66 84.06 34.64 165 336 ٧ _ _ 6.27 Α Р 2487.4 56.79 -17.21 74 53.13 31.99 6.3 34.63 165 336 ٧ 2483.52 43.96 -10.04 54 40.3 31.99 6.3 34.63 165 336 Α ٧

Remark

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

Page Number : A11 of A23 Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

Report No.: FR491670-01C

No other spurious found.

All results are PASS against Peak and Average limit line.

WIFI 802.11n HT40 (Harmonic @ 3m)

Ant.												
2			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
	(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	4844	38.99	-35.01	74	56.69	34.38	8.69	60.77	100	0	Р	Н
	7266	41.34	-32.66	74	54.18	35.74	11.93	60.51	100	0	Р	Н
802.11n												Н
HT40												Н
CH 03	4844	38.74	-35.26	74	56.44	34.38	8.69	60.77	100	0	Р	٧
2422MHz	7266	42.35	-31.65	74	55.19	35.74	11.93	60.51	100	0	Р	V
												V
												V
	4874	39.02	-34.98	74	56.54	34.4	8.77	60.69	100	0	Р	Н
	7311	46.12	-27.88	74	58.96	35.74	11.94	60.52	100	0	Р	Н
802.11n												Н
HT40												Н
CH 06	4874	38.25	-35.75	74	55.77	34.4	8.77	60.69	100	0	Р	V
2437MHz	7311	49.21	-24.79	74	62.05	35.74	11.94	60.52	100	0	Р	٧
												V
												V
	4904	37.99	-36.01	74	55.32	34.43	8.85	60.61	100	0	Р	Н
	7356	42.44	-31.56	74	55.28	35.73	11.97	60.54	100	0	Р	Н
802.11n												Н
HT40												Н
CH 09	4904	38.51	-35.49	74	55.84	34.43	8.85	60.61	100	0	Р	٧
2452MHz	7356	42.79	-31.21	74	55.63	35.73	11.97	60.54	100	0	Р	V
												V
												V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

Page Number : A12 of A23 Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

Report No.: FR491670-01C

15C Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

											Pol.
		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
60.24	28.26	-11.74	40	52.66	6.5	0.87	31.77			Р	Н
184.44	36.81	-6.69	43.5	58.04	9.06	1.46	31.75			Р	Н
260.04	40.69	-5.31	46	56.93	13.7	1.79	31.73	233	57	Р	Н
312.6	38.13	-7.87	46	54.56	13.36	1.94	31.73			Р	Н
410.6	39.42	-6.58	46	52.83	16.2	2.22	31.83			Р	Н
800.5	35.33	-10.67	46	44.32	19.9	3.06	31.95			Р	Н
											Н
											Н
											Н
											Н
											Н
											Н
30.54	36.3	-3.7	40	49.43	18.02	0.65	31.8	100	96	Р	V
61.05	32.92	-7.08	40	57.41	6.4	0.88	31.77			Р	V
125.04	30.51	-12.99	43.5	49.01	12	1.25	31.75			Р	V
455.4	39.54	-6.46	46	52.18	16.92	2.32	31.88			Р	V
520.5	33.47	-12.53	46	45.5	17.42	2.51	31.96			Р	V
758.5	32.68	-13.32	46	41.89	19.72	3.05	31.98			Р	V
											V
											V
											V
											V
											V
											V
I. No	60.24 184.44 260.04 312.6 410.6 800.5 30.54 61.05 125.04 455.4 520.5 758.5	60.24 28.26 184.44 36.81 260.04 40.69 312.6 38.13 410.6 39.42 800.5 35.33 30.54 36.3 61.05 32.92 125.04 30.51 455.4 39.54 520.5 33.47 758.5 32.68	60.24 28.26 -11.74 184.44 36.81 -6.69 260.04 40.69 -5.31 312.6 38.13 -7.87 410.6 39.42 -6.58 800.5 35.33 -10.67 30.54 36.3 -3.7 61.05 32.92 -7.08 125.04 30.51 -12.99 455.4 39.54 -6.46 520.5 33.47 -12.53 758.5 32.68 -13.32	60.24 28.26 -11.74 40 184.44 36.81 -6.69 43.5 260.04 40.69 -5.31 46 312.6 38.13 -7.87 46 410.6 39.42 -6.58 46 800.5 35.33 -10.67 46 30.54 36.3 -3.7 40 61.05 32.92 -7.08 40 125.04 30.51 -12.99 43.5 455.4 39.54 -6.46 46 520.5 33.47 -12.53 46 758.5 32.68 -13.32 46	60.24 28.26 -11.74 40 52.66 184.44 36.81 -6.69 43.5 58.04 260.04 40.69 -5.31 46 56.93 312.6 38.13 -7.87 46 54.56 410.6 39.42 -6.58 46 52.83 800.5 35.33 -10.67 46 44.32 30.54 36.3 -3.7 40 49.43 61.05 32.92 -7.08 40 57.41 125.04 30.51 -12.99 43.5 49.01 455.4 39.54 -6.46 46 52.18 520.5 33.47 -12.53 46 45.5 758.5 32.68 -13.32 46 41.89	60.24 28.26 -11.74 40 52.66 6.5 184.44 36.81 -6.69 43.5 58.04 9.06 260.04 40.69 -5.31 46 56.93 13.7 312.6 38.13 -7.87 46 54.56 13.36 410.6 39.42 -6.58 46 52.83 16.2 800.5 35.33 -10.67 46 44.32 19.9 30.54 36.3 -3.7 40 49.43 18.02 61.05 32.92 -7.08 40 57.41 6.4 125.04 30.51 -12.99 43.5 49.01 12 455.4 39.54 -6.46 46 52.18 16.92 520.5 33.47 -12.53 46 45.5 17.42 758.5 32.68 -13.32 46 41.89 19.72	60.24 28.26 -11.74 40 52.66 6.5 0.87 184.44 36.81 -6.69 43.5 58.04 9.06 1.46 260.04 40.69 -5.31 46 56.93 13.7 1.79 312.6 38.13 -7.87 46 54.56 13.36 1.94 410.6 39.42 -6.58 46 52.83 16.2 2.22 800.5 35.33 -10.67 46 44.32 19.9 3.06 30.54 36.3 -3.7 40 49.43 18.02 0.65 61.05 32.92 -7.08 40 57.41 6.4 0.88 125.04 30.51 -12.99 43.5 49.01 12 1.25 455.4 39.54 -6.46 46 52.18 16.92 2.32 520.5 33.47 -12.53 46 45.5 17.42 2.51 758.5 32.68 -13.32 46 41.89 19.72 3.05	60.24 28.26 -11.74 40 52.66 6.5 0.87 31.77 184.44 36.81 -6.69 43.5 58.04 9.06 1.46 31.75 260.04 40.69 -5.31 46 56.93 13.7 1.79 31.73 312.6 38.13 -7.87 46 54.56 13.36 1.94 31.73 410.6 39.42 -6.58 46 52.83 16.2 2.22 31.83 800.5 35.33 -10.67 46 44.32 19.9 3.06 31.95 30.54 36.3 -3.7 40 49.43 18.02 0.65 31.8 61.05 32.92 -7.08 40 57.41 6.4 0.88 31.77 125.04 30.51 -12.99 43.5 49.01 12 1.25 31.75 455.4 39.54 -6.46 46 52.18 16.92 2.32 31.88 520.5 33.47 -12.53 46 45.5 17.42 2.51 31.96 758.5<	60.24 28.26 -11.74 40 52.66 6.5 0.87 31.77 184.44 36.81 -6.69 43.5 58.04 9.06 1.46 31.75 260.04 40.69 -5.31 46 56.93 13.7 1.79 31.73 233 312.6 38.13 -7.87 46 54.56 13.36 1.94 31.73 410.6 39.42 -6.58 46 52.83 16.2 2.22 31.83 800.5 35.33 -10.67 46 44.32 19.9 3.06 31.95 30.54 36.3 -3.7 40 49.43 18.02 0.65 31.8 100 61.05 32.92 -7.08 40 57.41 6.4 0.88 31.77 125.04 30.51 -12.99 43.5 49.01 12 1.25 31.88 520.5 33.47 -12.53 46 45.5 17.42 2.51 31.96 758.5 32.68 -13.32 46 41.89 19.72 3.05 31.98 </td <td>60.24 28.26 -11.74 40 52.66 6.5 0.87 31.77 184.44 36.81 -6.69 43.5 58.04 9.06 1.46 31.75 260.04 40.69 -5.31 46 56.93 13.7 1.79 31.73 233 57 312.6 38.13 -7.87 46 54.56 13.36 1.94 31.73 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.95 31.83 31.95 31.83 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.9</td> <td> 60.24 28.26 -11.74 40 52.66 6.5 0.87 31.77 </td>	60.24 28.26 -11.74 40 52.66 6.5 0.87 31.77 184.44 36.81 -6.69 43.5 58.04 9.06 1.46 31.75 260.04 40.69 -5.31 46 56.93 13.7 1.79 31.73 233 57 312.6 38.13 -7.87 46 54.56 13.36 1.94 31.73 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.83 31.95 31.83 31.95 31.83 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.95 31.83 31.95 31.9	60.24 28.26 -11.74 40 52.66 6.5 0.87 31.77

2. All results are PASS against limit line.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A13 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C

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

 ${\it SPORTON\ INTERNATIONAL\ INC.}$

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A14 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No. : FR491670-01C

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)	(dB _µ V)	(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	Р	н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

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

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

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dB μ V) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dB μ V/m) Limit Line(dB μ V/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

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

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A15 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2388.39	62.15	-11.85	74	58.69	31.94	6.17	34.65	120	242	Р	Н
		2389.92	46.5	-7.5	54	42.99	31.94	6.21	34.64	120	242	Α	Н
	*	2412	103.01	-	-	99.49	31.95	6.21	34.64	120	242	Р	Н
	*	2412	92.47	-	-	88.95	31.95	6.21	34.64	120	242	Α	Н
802.11n													Н
HT20													н
CH 01		2390	61.16	-12.84	74	57.65	31.94	6.21	34.64	161	330	Р	V
2412MHz		2390	43.9	-10.1	54	40.39	31.94	6.21	34.64	161	330	Α	V
	*	2412	101.07	-	-	97.55	31.95	6.21	34.64	161	330	Р	V
	*	2412	91.03	-	-	87.51	31.95	6.21	34.64	161	330	Α	V
													V
													V
		2388.57	53.18	-20.82	74	49.72	31.94	6.17	34.65	186	244	Р	Н
		2389.29	41.18	-12.82	54	37.72	31.94	6.17	34.65	186	244	Α	Н
	*	2437	104.14	-	-	100.57	31.97	6.24	34.64	186	244	Р	Н
	*	2437	93.59	-	-	90.02	31.97	6.24	34.64	186	244	Α	Н
802.11n		2494.12	50.84	-23.16	74	47.13	32	6.34	34.63	186	244	Р	Н
HT20		2484.08	38.45	-15.55	54	34.79	31.99	6.3	34.63	186	244	Α	Н
CH 06		2389.74	50.69	-23.31	74	47.23	31.94	6.17	34.65	105	31	Р	V
2437MHz		2362.83	38.76	-15.24	54	35.35	31.92	6.14	34.65	105	31	Α	V
	*	2437	102.51	-	-	98.94	31.97	6.24	34.64	105	31	Р	V
	*	2437	93.02	-	-	89.45	31.97	6.24	34.64	105	31	Α	V
		2496.36	49.84	-24.16	74	46.13	32	6.34	34.63	105	31	Р	V
		2498.48	37.79	-16.21	54	34.08	32	6.34	34.63	105	31	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A16 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C



FCC RF Test Report Report No.: FR491670-01C

	*	2462	102.15	-	-	98.54	31.98	6.27	34.64	196	242	Р	Н
	*	2462	92.24	-	-	88.63	31.98	6.27	34.64	196	242	Α	Н
		2484.48	63.54	-10.46	74	59.88	31.99	6.3	34.63	196	242	Р	Н
		2483.52	44.2	-9.8	54	40.54	31.99	6.3	34.63	196	242	Α	Н
802.11n													Н
HT20													Н
CH 11	*	2462	100.37	-	-	96.76	31.98	6.27	34.64	130	331	Р	V
2462MHz	*	2462	89.76	-	-	86.15	31.98	6.27	34.64	130	331	Α	V
		2484.16	58.56	-15.44	74	54.9	31.99	6.3	34.63	130	331	Р	V
		2484.4	41.9	-12.1	54	38.24	31.99	6.3	34.63	130	331	Α	V
													V
													V
	1. No	o other spurious	s found.	•		•	•	•	•			•	,

Remark

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

: A17 of A23 Page Number Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

All results are PASS against Peak and Average limit line.

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V
		4824	38.67	-35.33	74	56.52	34.36	8.6	60.81	100	0	Р	Н
													Н
802.11n													Н
HT20													Н
CH 01		4824	39.41	-34.59	74	57.26	34.36	8.6	60.81	100	0	Р	V
2412MHz													V
													V
													V
		4874	38.4	-35.6	74	55.92	34.4	8.77	60.69	100	0	Р	Н
		7311	41.82	-32.18	74	54.66	35.74	11.94	60.52	100	0	Р	Н
802.11n													Н
HT20													Н
CH 06		4874	38.16	-35.84	74	55.68	34.4	8.77	60.69	100	0	Р	V
2437MHz		7311	47.63	-26.37	74	60.47	35.74	11.94	60.52	100	0	Р	V
													V
													V
		4924	39.58	-34.42	74	56.77	34.44	8.94	60.57	100	0	Р	Н
		7386	44.35	-29.65	74	57.21	35.72	11.98	60.56	100	0	Р	Н
802.11n													Н
HT20													Н
CH 11		4924	40.21	-33.79	74	57.4	34.44	8.94	60.57	100	0	Р	V
2462MHz		7386	46.82	-27.18	74	59.68	35.72	11.98	60.56	100	0	Р	V
													V
													V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C

Page Number : A18 of A23 Report Issued Date: Jan. 20, 2014 Report Version : Rev. 01

Report No.: FR491670-01C

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2389.38	52.79	-21.21	74	49.33	31.94	6.17	34.65	144	244	Р	Н
		2389.92	40.78	-13.22	54	37.27	31.94	6.21	34.64	144	244	Α	Н
	*	2422	97.32	-	-	93.76	31.96	6.24	34.64	144	244	Р	Н
	*	2422	86.3	-	-	82.74	31.96	6.24	34.64	144	244	Α	Н
802.11n		2487.4	47.55	-26.45	74	43.89	31.99	6.3	34.63	144	244	Р	Н
HT40		2483.52	36.14	-17.86	54	32.48	31.99	6.3	34.63	144	244	Α	Н
CH 03		2389.74	50.17	-23.83	74	46.71	31.94	6.17	34.65	163	330	Р	V
2422MHz		2389.65	38.96	-15.04	54	35.5	31.94	6.17	34.65	163	330	Α	V
	*	2422	96.26	-	-	92.7	31.96	6.24	34.64	163	330	Р	V
	*	2422	85.81	-	-	82.25	31.96	6.24	34.64	163	330	Α	V
		2492.44	47.93	-26.07	74	44.22	32	6.34	34.63	163	330	Р	V
		2484.72	35.73	-18.27	54	32.07	31.99	6.3	34.63	163	330	Α	V
		2389.83	53.56	-20.44	74	50.05	31.94	6.21	34.64	162	241	Р	Н
		2389.56	41.43	-12.57	54	37.97	31.94	6.17	34.65	162	241	Α	Н
	*	2437	101.42	-	-	97.85	31.97	6.24	34.64	162	241	Р	Н
	*	2437	90.81	-	-	87.24	31.97	6.24	34.64	162	241	Α	Н
802.11n		2484.48	55.76	-18.24	74	52.1	31.99	6.3	34.63	162	241	Р	Н
HT40		2483.56	38.92	-15.08	54	35.26	31.99	6.3	34.63	162	241	Α	Н
CH 06		2387.85	54.65	-19.35	74	51.19	31.94	6.17	34.65	100	327	Р	V
2437MHz		2390	41.28	-12.72	54	37.77	31.94	6.21	34.64	100	327	Α	V
	*	2437	99.96	-	-	96.39	31.97	6.24	34.64	100	327	Р	V
	*	2437	89.56	-	-	85.99	31.97	6.24	34.64	100	327	Α	V
		2486.6	52.03	-21.97	74	48.37	31.99	6.3	34.63	100	327	Р	V
		2483.56	38.29	-15.71	54	34.63	31.99	6.3	34.63	100	327	Α	V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A19 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C



FCC RF Test Report

		2386.32	51.76	-22.24	74	48.3	31.94	6.17	34.65	157	240	Р	Н
		2389.38	39.85	-14.15	54	36.39	31.94	6.17	34.65	157	240	Α	Н
	*	2452	100.63	-	-	97.03	31.97	6.27	34.64	157	240	Р	Н
	*	2452	89.5	-	-	85.9	31.97	6.27	34.64	157	240	Α	Н
802.11n		2484.72	56.71	-17.29	74	53.05	31.99	6.3	34.63	157	240	Р	Н
HT40		2483.72	43.93	-10.07	54	40.27	31.99	6.3	34.63	157	240	Α	Н
CH 09		2384.07	50.86	-23.14	74	47.41	31.93	6.17	34.65	130	330	Р	V
2452MHz		2383.53	38.98	-15.02	54	35.53	31.93	6.17	34.65	130	330	Α	V
	*	2452	98.98	-	-	95.38	31.97	6.27	34.64	130	330	Р	V
	*	2452	88.59	-	-	84.99	31.97	6.27	34.64	130	330	Α	V
		2484.6	56.23	-17.77	74	52.57	31.99	6.3	34.63	130	330	Р	V
		2483.6	44.03	-9.97	54	40.37	31.99	6.3	34.63	130	330	Α	V
Remark	1. No	o other spurious	s found.										
	All results are PASS against Peak and Average limit line.												

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A20 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No. : FR491670-01C

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		4844	39.04	-34.96	74	56.74	34.38	8.69	60.77	100	0	Р	Н
		7266	41.93	-32.07	74	54.77	35.74	11.93	60.51	100	0	Р	Н
802.11n													Н
HT40													Н
CH 03		4844	38.38	-35.62	74	56.08	34.38	8.69	60.77	100	0	Р	٧
2422MHz		7266	46.16	-27.84	74	59	35.74	11.93	60.51	100	0	Р	V
													٧
													٧
		4874	38.11	-35.89	74	55.63	34.4	8.77	60.69	100	0	Р	Н
		7311	44.62	-29.38	74	57.46	35.74	11.94	60.52	100	0	Р	Н
802.11n													Н
HT40													Н
CH 06		4874	38.79	-35.21	74	56.31	34.4	8.77	60.69	100	0	Р	V
2437MHz		7311	47.96	-26.04	74	60.8	35.74	11.94	60.52	100	0	Р	٧
													٧
													٧
		4904	37.97	-36.03	74	55.3	34.43	8.85	60.61	100	0	Р	Н
		7356	41.95	-32.05	74	54.79	35.73	11.97	60.54	100	0	Р	Н
802.11n													Н
HT40													Н
CH 09		4904	38.98	-35.02	74	56.31	34.43	8.85	60.61	100	0	Р	V
2452MHz		7356	43.74	-30.26	74	56.58	35.73	11.97	60.54	100	0	Р	V
													V
													V
Remark	1. No	o other spuriou	s found.								ı		

2. All results are PASS against Peak and Average limit line.

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A21 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No.: FR491670-01C

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

 ${\it SPORTON\ INTERNATIONAL\ INC.}$

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Page Number : A22 of A23
Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Report No. : FR491670-01C

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	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

3. Level($dB\mu V/m$) =

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

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

For Peak Limit @ 2390MHz:

- 3. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 4. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 3. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 4. Over Limit(dB)
- = Level(dB μ V/m) Limit Line(dB μ V/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

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

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 FCC ID: YE3600C Report Issued Date : Jan. 20, 2014
Report Version : Rev. 01

Page Number

Report Template No.: BU5-FR15CWL Version 1.0

: A23 of A23

Report No.: FR491670-01C