Appendix B. Radiated Spurious Emission

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

Band 4 - 5725~5850MHz

WIFI 802.11a (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)
		5649	50.17	-18.13	68.3	37.96	35.53	11.95	35.27	255	297	Р	Н
		5699.6	53.18	-51.83	105.01	40.92	35.54	12	35.28	255	297	Р	Н
		5719.4	61.09	-49.64	110.73	48.77	35.54	12.06	35.28	255	297	Р	Н
		5725	75.3	-47	122.3	62.98	35.54	12.06	35.28	255	297	Р	Н
		5745	113.08	-9.22	122.3	100.71	35.55	12.11	35.29	255	297	Р	Н
		5745	105.92	-	-	93.55	35.55	12.11	35.29	255	297	Α	Н
000 44 -													Н
802.11a													Н
CH 149 5745MHz		5638.8	51.18	-17.12	68.3	38.97	35.53	11.95	35.27	128	356	Р	٧
37 43WII 12		5696	57.55	-44.8	102.35	45.29	35.54	12	35.28	128	356	Р	٧
		5718.6	61.33	-49.18	110.51	49.01	35.54	12.06	35.28	128	356	Р	٧
		5725	76.81	-45.49	122.3	64.49	35.54	12.06	35.28	128	356	Р	٧
		5745	116.16	-6.14	122.3	103.79	35.55	12.11	35.29	128	356	Р	٧
		5745	108.84	-	-	96.47	35.55	12.11	35.29	128	356	Α	٧
													٧
													٧

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

: B1 of B16



WIFI Preamp Note Level Over Limit Read Antenna Cable Ant **Table** Peak Pol. Frequency Limit Line **Factor** Ant. Level Loss Factor Pos Pos Avg. (dB) (dB \(\psi V/m \) 1+2 (MHz) (dBµV/m) (dB_µV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 5631.4 51.17 -17.1368.3 38.97 35.52 11.95 35.27 300 348 Н 51.44 Ρ 5693 -48.7 100.14 39.18 35.54 12 35.28 300 348 Н 5718.2 51.6 -58.8 110.4 39.28 35.54 12.06 35.28 300 348 Ρ Н 5723.6 49.01 -70.1 119.11 36.69 35.54 12.06 35.28 300 348 Ρ Н 5785 110.79 -11.51 122.3 98.36 35.56 12.17 35.3 300 348 Ρ Н 5785 300 103.16 90.73 35.56 12.17 35.3 348 Α Η 120.93 Р 5850.6 35.57 35.31 300 Н 49.25 -71.68 36.71 12.28 348 5874.2 51.94 -53.58 105.52 39.28 35.58 12.39 35.31 300 348 Ρ Н Ρ 5910.8 51.89 -26.89 78.78 39.12 35.58 12.51 35.32 300 348 Н 5939.8 50.15 -18.15 68.3 37.38 35.59 12.51 35.33 300 348 Ρ Н Н 802.11a Н **CH 157** 5650 51.65 -16.65 68.3 39.44 35.53 11.95 35.27 100 354 Ρ V 5785MHz 5669.8 53.04 -29.95 82.99 40.78 35.53 12 35.27 100 354 Ρ ٧ 5716.8 50.31 -59.7 110.01 37.99 35.54 12.06 35.28 100 354 Ρ ٧ ٧ 5721.8 50.93 -64.07 115 38.61 35.54 12.06 35.28 100 354 Ρ ٧ 5785 114.65 -7.65 122.3 102.22 35.56 12.17 35.3 100 354 35.56 ٧ 5785 107.17 94.74 35.3 100 354 12.17 Α V 5852 49.9 -67.84 117.74 37.36 35.57 12.28 35.31 100 354 Ρ 5867.8 52.25 -55.06 107.31 35.57 12.39 35.31 100 354 Ρ ٧ 39.6 ٧ 5881.4 51.27 -49.28 100.55 38.62 35.58 12.39 35.32 100 354 Ρ Ρ 5925 50.74 -17.56 68.3 37.97 35.59 12.51 35.33 100 354 ٧ ٧ ٧

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level (dBµV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
		5825	111.99	-10.31	122.3	99.45	35.57	12.28	35.31	252	296	Р	Н
		5825	104.82	-	-	92.28	35.57	12.28	35.31	252	296	Α	Η
		5851.4	57.13	-61.98	119.11	44.59	35.57	12.28	35.31	252	296	Р	Η
		5863	53.24	-55.42	108.66	40.59	35.57	12.39	35.31	252	296	Р	Η
		5876	51.74	-52.82	104.56	39.09	35.58	12.39	35.32	252	296	Р	Н
		5938.6	50.37	-17.93	68.3	37.6	35.59	12.51	35.33	252	296	Р	Н
													Н
802.11a													Н
CH 165		5825	114.46	-7.84	122.3	101.92	35.57	12.28	35.31	142	359	Р	V
5825MHz		5825	107.31	-	-	94.77	35.57	12.28	35.31	142	359	Α	V
		5850	58.77	-63.53	122.3	46.23	35.57	12.28	35.31	142	359	Р	٧
		5856	54.48	-56.14	110.62	41.94	35.57	12.28	35.31	142	359	Р	٧
		5876	53.85	-50.71	104.56	41.2	35.58	12.39	35.32	142	359	Р	٧
		5925.6	51.33	-16.97	68.3	38.56	35.59	12.51	35.33	142	359	Р	٧
													٧
													٧
													٧
Remark		o other spurious		eak and	Average lim	it line.							

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

WIFI 802.11a (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
		11490	46.41	-27.59	74	48.21	38.38	17.16	57.34	100	0	Р	Н
		17235	48.48	-19.82	68.3	41.55	42.06	20.76	55.89	100	0	Р	Н
802.11a													Н
CH 149													Н
5745MHz		11490	46.54	-27.46	74	48.34	38.38	17.16	57.34	100	0	Р	V
3743WITIZ		17235	48.58	-19.72	68.3	41.65	42.06	20.76	55.89	100	0	Р	V
													V
													V
		11570	47.96	-26.04	74	49.52	38.47	17.16	57.19	100	0	Р	Н
		17352	45.48	-22.82	68.3	38.59	41.99	20.84	55.94	100	0	Р	Н
802.11a													Н
CH 157													Н
5785MHz		11565	48.99	-25.01	74	50.6	38.45	17.16	57.22	100	0	Р	V
		17352	44.55	-23.75	68.3	37.66	41.99	20.84	55.94	100	0	Р	V
													V
		11650	49.52	-24.48	74	50.9	38.54	17.16	57.08	100	0	Р	V
		17475	47.32	-20.98	68.3	40.46	41.92	20.93	55.99	100	0	P	н
		-											Н
802.11a													Н
CH 165		11650	50.09	-23.91	74	51.47	38.54	17.16	57.08	100	0	Р	V
5825MHz		17475	47.17	-21.13	68.3	40.31	41.92	20.93	55.99	100	0	Р	V
													V
													V

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

Band 4 5725~5850MHz WIFI 802.11n HT20 (Band Edge @ 3m)

Report No.: FR661812F

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.		(BALL)	(dD::\//== \	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)
		5613.8	50.82	-17.48	68.3	38.67	35.52	11.89	35.26	255	295	Р	Н
		5694.8	54.03	-47.44	101.47	41.77	35.54	12	35.28	255	295	Р	Н
		5719.6	63.69	-47.1	110.79	51.37	35.54	12.06	35.28	255	295	Р	Н
		5723.8	77.89	-41.67	119.56	65.57	35.54	12.06	35.28	255	295	Р	Н
		5745	113.71	-8.59	122.3	101.34	35.55	12.11	35.29	255	295	Р	Н
		5745	105.65	-	-	93.28	35.55	12.11	35.29	255	295	Α	П
802.11n													Н
HT20													П
CH 149		5649.2	51.87	-16.43	68.3	39.66	35.53	11.95	35.27	119	357	Р	V
5745MHz		5696.8	55.85	-47.09	102.94	43.59	35.54	12	35.28	119	357	Р	٧
		5719.4	63.81	-46.92	110.73	51.49	35.54	12.06	35.28	119	357	Р	٧
		5724.8	79.65	-42.19	121.84	67.33	35.54	12.06	35.28	119	357	Р	٧
		5745	116.51	-5.79	122.3	104.14	35.55	12.11	35.29	119	357	Р	٧
		5745	108.76	-	-	96.39	35.55	12.11	35.29	119	357	Α	٧
													٧
													٧

SPORTON INTERNATIONAL INC. Page Number : B5 of B16



WIFI Preamp Note Level Over Limit Read Antenna Cable Ant **Table** Peak Pol. **Frequency Factor** Ant. Limit Line Level Loss Factor Pos Pos Avg. (dB) (dB \(V/m \) 1+2 (MHz) (dBµV/m) (dB_µV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 5647.2 51.39 -16.91 68.3 39.18 35.53 11.95 35.27 253 296 Н 51.47 Р 5699.6 -53.54 105.01 39.21 35.54 12 35.28 253 296 Н 5720 51.17 -59.73 110.9 38.85 35.54 12.06 35.28 253 296 Ρ Н 5723.8 51.36 -68.2 119.56 39.04 35.54 12.06 35.28 253 296 Ρ Н 5785 112.63 -9.67 122.3 100.2 35.56 12.17 35.3 253 296 Ρ Н 5785 253 105.38 92.95 35.56 12.17 35.3 296 Α Η Р 5850.8 50.79 35.57 35.31 253 296 -69.69 120.48 38.25 12.28 Н 5859.8 51 -58.55 109.55 38.46 35.57 12.28 35.31 253 296 Ρ Н 51.04 Ρ 5909 -29.07 80.11 38.27 35.58 12.51 35.32 253 296 Н 5947.6 50.87 -17.43 68.3 37.99 35.59 12.62 35.33 253 296 Ρ Н 802.11n Н HT20 Н CH 157 5649.2 51.22 -17.08 68.3 39.01 35.53 11.95 35.27 122 356 Ρ V 5785MHz 5694.8 51.8 -49.67 101.47 39.54 35.54 12 35.28 122 356 Ρ ٧ 5703 51.36 -54.78 106.14 39.04 35.54 12.06 35.28 122 356 Ρ ٧ ٧ 5724 50.6 -69.42 120.02 38.28 35.54 12.06 35.28 122 356 Ρ ٧ 5782 116.38 -5.92 122.3 103.95 35.56 12.17 35.3 122 356 35.56 122 ٧ 5782 108.68 96.25 35.3 356 12.17 Α V 5850.6 51.15 -69.78 120.93 38.61 35.57 12.28 35.31 122 356 Ρ 5862 51.3 -57.64 108.94 38.65 35.57 12.39 35.31 122 356 Ρ ٧ ٧ 5876.2 52.54 -51.87 104.41 39.89 35.58 12.39 35.32 122 356 Ρ Ρ 5944 51.84 -16.46 68.3 38.96 35.59 12.62 35.33 122 356 ٧ ٧ ٧

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978



WIFI Level Preamp Note Over Limit Read Antenna Cable Table Peak Pol. **Frequency** Ant Limit **Factor** Pos Pos Ant. Line Level Loss Factor Avg. (dBµV/m) (deg) (P/A) (H/V) 1+2 (MHz) (dB) (dBµV/m) (dB_µV) (dB/m) (dB) (dB) (cm) -10.53 111.77 122.3 35.57 5825 99.23 12.28 35.31 262 292 Η 5825 104.48 91.94 35.57 35.31 262 292 --12.28 Α Н 5850 61.34 -60.96 122.3 48.8 35.57 12.28 35.31 262 292 Ρ Н 5855.6 35.57 35.31 262 Ρ Н 54.03 -56.7 110.73 41.49 12.28 292 5910.4 52.65 -26.42 79.07 39.88 35.58 12.51 35.32 262 292 Ρ Н Р 5950 50.32 -17.98 68.3 37.44 35.59 12.62 35.33 262 292 Н Н 802.11n Н HT20 **CH 165** 5825 115.18 -7.12 122.3 102.64 35.57 12.28 35.31 125 357 ٧ 5825MHz ٧ 5825 107.73 95.19 35.57 35.31 125 357 Α --12.28 125 Р ٧ 5850.2 65.79 -56.05 121.84 53.25 35.57 12.28 35.31 357 Ρ ٧ 5863.4 55.09 -53.46 108.55 42.44 35.57 12.39 35.31 125 357 5875.6 52.26 -52.59 104.85 39.61 35.58 35.32 125 357 Ρ V 12.39 Р ٧ 5935.6 50.24 -18.06 68.3 37.47 35.59 12.51 35.33 125 357 ٧ ٧ No other spurious found. Remark All results are PASS against Peak and Average limit line.

TEL: 886-3-327-3456 FAX: 886-3-328-4978

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/\
		11490	47.55	-26.45	74	49.35	38.38	17.16	57.34	100	0	Р	Н
		17235	50.36	-17.94	68.3	43.43	42.06	20.76	55.89	100	0	Р	Н
802.11n													Н
HT20													Н
CH 149		11490	46.59	-27.41	74	48.39	38.38	17.16	57.34	100	0	Р	V
5745MHz		17235	48.23	-20.07	68.3	41.3	42.06	20.76	55.89	100	0	Р	V
													٧
													V
		11570	44.79	-29.21	74	46.35	38.47	17.16	57.19	100	0	Р	Н
		17355	44.99	-23.31	68.3	38.1	41.99	20.84	55.94	100	0	Р	Н
802.11n													Н
HT20													Н
CH 157		11570	46.48	-27.52	74	48.04	38.47	17.16	57.19	100	0	Р	V
5785MHz		17355	45.79	-22.51	68.3	38.9	41.99	20.84	55.94	100	0	Р	V
													V
													V
		11650	46.56	-27.44	74	47.94	38.54	17.16	57.08	100	0	Р	Н
		17475	45.16	-23.14	68.3	38.3	41.92	20.93	55.99	100	0	Р	Н
802.11n													Н
HT20													Н
CH 165		11650	49.43	-24.57	74	50.81	38.54	17.16	57.08	100	0	Р	٧
5825MHz		17475	45.86	-22.44	68.3	39	41.92	20.93	55.99	100	0	Р	٧
													٧
													V

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

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

: B8 of B16

Band 4 5725~5850MHz WIFI 802.11n HT40 (Band Edge @ 3m)

Report No.: FR661812F

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)	, ,	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)		
		5639.6	55.05	-13.25	68.3	42.84	35.53	11.95	35.27	253	294	Р	Н
		5683.4	59.15	-33.9	93.05	46.9	35.53	12	35.28	253	294	Р	Н
		5717.2	78.15	-31.97	110.12	65.83	35.54	12.06	35.28	253	294	Р	Н
		5721.8	80.44	-34.56	115	68.12	35.54	12.06	35.28	253	294	Р	Н
		5755	107.84	-14.46	122.3	95.47	35.55	12.11	35.29	253	294	Р	Н
		5755	101.56	-	-	89.19	35.55	12.11	35.29	253	294	Α	Н
		5851.8	50.28	-67.92	118.2	37.74	35.57	12.28	35.31	253	294	Р	Н
		5861.6	50.76	-58.29	109.05	38.11	35.57	12.39	35.31	253	294	Р	Н
		5913	51.08	-26.07	77.15	38.31	35.58	12.51	35.32	253	294	Р	Н
		5945.8	50.97	-17.33	68.3	38.09	35.59	12.62	35.33	253	294	Р	Н
802.11n													Н
HT40													Н
CH 151		5645.8	52.87	-15.43	68.3	40.66	35.53	11.95	35.27	111	356	Р	V
5755MHz		5668.8	63.46	-18.79	82.25	51.2	35.53	12	35.27	111	356	Р	V
		5718.8	77.84	-32.72	110.56	65.52	35.54	12.06	35.28	111	356	Р	V
		5722	79.86	-35.6	115.46	67.54	35.54	12.06	35.28	111	356	Р	V
		5755	111.3	-11	122.3	98.93	35.55	12.11	35.29	111	356	Р	V
		5755	105.34	-	-	92.97	35.55	12.11	35.29	111	356	Α	V
		5853	57.6	-57.86	115.46	45.06	35.57	12.28	35.31	111	356	Р	V
		5874.2	51.42	-54.1	105.52	38.76	35.58	12.39	35.31	111	356	Р	V
		5918.8	51.48	-21.39	72.87	38.71	35.58	12.51	35.32	111	356	Р	V
		5932.2	51.29	-17.01	68.3	38.52	35.59	12.51	35.33	111	356	Р	V
													V
													V

SPORTON INTERNATIONAL INC. Page Number : B9 of B16



WIFI Preamp Note Level Over Limit Read Antenna Cable **Table** Peak Pol. **Frequency** Ant Ant. Limit Line Level **Factor** Loss Factor Pos Pos Avg. (dB) (dB \(V/m \) 1+2 (MHz) (dBµV/m) (dBµV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 5642.4 50.57 -17.7368.3 38.36 35.53 11.95 35.27 250 296 Н Р 5680.6 50.98 -40 90.98 38.73 35.53 12 35.28 250 296 Н 5709 59.32 -48.5 107.82 47 35.54 12.06 35.28 250 296 Ρ Н 5724.6 52.13 -69.26 121.39 39.81 35.54 12.06 35.28 250 296 Ρ Н 5795 108.71 -13.59122.3 96.28 35.56 12.17 35.3 250 296 Ρ Н 250 5795 101.44 89.01 35.56 12.17 35.3 296 Α Η Р 5850.6 35.57 35.31 250 296 52.12 -68.81 120.93 39.58 12.28 Н 5872 58.52 -47.62 106.14 45.86 35.58 12.39 35.31 250 296 Ρ Н Ρ 5900.2 55.58 -31.03 86.61 42.81 35.58 12.51 35.32 250 296 Н 5949.4 51.74 -16.56 68.3 38.86 35.59 12.62 35.33 250 296 Ρ Н 802.11n Н **HT40** Н **CH 159** 5610.4 50.94 -17.36 68.3 38.79 35.52 11.89 35.26 120 356 Ρ ٧ 5795MHz 5699.8 52.05 -53.1 105.15 39.79 35.54 12 35.28 120 356 Ρ ٧ 5707.6 62.75 -44.68 107.43 50.43 35.54 12.06 35.28 120 356 Ρ ٧ ٧ 5725 59.72 -62.58 122.3 47.4 35.54 12.06 35.28 120 356 Ρ 5795 111.7 -10.6 122.3 99.27 35.56 12.17 35.3 120 356 ٧ ٧ 5795 104.77 -92.34 35.56 35.3 120 356 12.17 Α 5850.6 54 -66.93 120.93 41.46 35.57 12.28 35.31 120 356 Ρ V 5860.4 54.54 -54.85 109.39 41.89 35.57 12.39 35.31 120 356 Ρ ٧ ٧ 5884.4 53.45 -44.87 98.32 40.8 35.58 12.39 35.32 120 356 Ρ Ρ 5947.6 50.48 -17.82 68.3 37.6 35.59 12.62 35.33 120 356 ٧ ٧ ٧

Remark

No other spurious found.

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

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

: B10 of B16

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
Ant. 1+2		(MHz)	(dBµV/m)	Limit (dB)	Line (dBµV/m)	Level	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)		Avg. (P/A)	
		11510	43.47	-30.53	74	45.21	38.4	17.16	57.3	100	0	Р	Н
		17265	46.67	-21.63	68.3	39.75	42.04	20.79	55.91	100	0	Р	Н
802.11n													Н
HT40													Н
CH 151		11510	43.46	-30.54	74	45.2	38.4	17.16	57.3	100	0	Р	V
5755MHz		17265	44.97	-23.33	68.3	38.05	42.04	20.79	55.91	100	0	Р	V
													V
													V
		11590	43.31	-30.69	74	44.82	38.49	17.16	57.16	100	0	Р	Н
		17385	44.94	-23.36	68.3	38.05	41.97	20.87	55.95	100	0	Р	Н
802.11n													Н
HT40													Н
CH 159		11590	44.61	-29.39	74	46.12	38.49	17.16	57.16	100	0	Р	V
5795MHz		17385	44.37	-23.93	68.3	37.48	41.97	20.87	55.95	100	0	Р	V
													V
													V

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

Band 4 5725~5850MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol
1+2		(MHz)	(dBµV/m)		(dBµV/m)		(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/\
		5649.8	56.31	-11.99	68.3	44.1	35.53	11.95	35.27	254	299	Р	Н
		5697.8	73.86	-29.82	103.68	61.6	35.54	12	35.28	254	299	Р	Н
		5718.8	78.72	-31.84	110.56	66.4	35.54	12.06	35.28	254	299	Р	Н
		5724.6	80.59	-40.8	121.39	68.27	35.54	12.06	35.28	254	299	Р	Н
		5775	106.49	-15.81	122.3	94.12	35.56	12.11	35.3	254	299	Р	Н
		5775	99	-	-	86.63	35.56	12.11	35.3	254	299	Α	Н
		5854	74.92	-38.26	113.18	62.38	35.57	12.28	35.31	254	299	Р	Н
		5855.2	72.31	-38.53	110.84	59.77	35.57	12.28	35.31	254	299	Р	Н
		5875.2	62.92	-42.23	105.15	50.27	35.58	12.39	35.32	254	299	Р	Н
		5947.8	52.44	-15.86	68.3	39.56	35.59	12.62	35.33	254	299	Р	Н
802.11ac													Н
VHT80													Н
CH 155		5648.6	58.86	-9.44	68.3	46.65	35.53	11.95	35.27	134	352	Р	V
5775MHz		5693.2	76.42	-23.87	100.29	64.16	35.54	12	35.28	134	352	Р	V
		5712	79.87	-28.79	108.66	67.55	35.54	12.06	35.28	134	352	Р	V
		5724	82.38	-37.64	120.02	70.06	35.54	12.06	35.28	134	352	Р	V
		5775	107.94	-14.36	122.3	95.57	35.56	12.11	35.3	134	352	Р	V
		5775	102.44	-	-	90.07	35.56	12.11	35.3	134	352	Α	V
		5852.6	76.36	-40.01	116.37	63.82	35.57	12.28	35.31	134	352	Р	V
		5856.4	75.09	-35.42	110.51	62.55	35.57	12.28	35.31	134	352	Р	V
		5875.8	62.69	-42.02	104.71	50.04	35.58	12.39	35.32	134	352	Р	V
		5926	53.55	-14.75	68.3	40.78	35.59	12.51	35.33	134	352	Р	V
													V
								_					V

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

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

: B12 of B16

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos		Avg.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		11550	41.78	-32.22	74	43.39	38.45	17.16	57.22	100	0	Р	Н
		17325	44.9	-23.4	68.3	38.01	42.01	20.81	55.93	100	0	Р	Н
802.11ac													Н
VHT80													Н
CH 155		11550	42.78	-31.22	74	44.39	38.45	17.16	57.22	100	0	Р	V
5775MHz		17325	45.81	-22.49	68.3	38.92	42.01	20.81	55.93	100	0	Р	V
													V
													V
	1 Na	o other spurious	e found									•	
Remark	i. INC	outer spurious	s iouria.										
	2. Al	l results are PA	SS against F	Peak and	Average lim	it line.							

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Emission below 1GHz 5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI Peak Pol. Note Limit Antenna Table **Frequency** Level Over Read Cable **Preamp** Ant Line Pos Pos Ant. Limit Level **Factor** Loss Factor Avg. 1+2 (MHz) (dBµV/m) (dB) (dB \(\psi V/m \) (dBµV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 27.76 -12.24 32.04 1.07 30 40 26 31.35 Н Р 137.46 27.28 -16.22 43.5 39.17 18.06 1.55 31.5 Н 289.47 23.16 -22.84 46 32.47 19.66 2.32 31.29 Ρ Н 32.49 28.73 Ρ 855.8 -13.51 46 30.22 4.1 30.56 Н 936.3 33.12 -12.88 46 29.66 29.87 4.12 30.53 Ρ Н Ρ Н 950.3 33.79 -12.21 46 30.05 30.2 4.07 30.53 100 0 Н Н Н Н Н 5GHz Н 802.11n **HT20** 71.85 12.92 Ρ ٧ 35.26 -4.74 40 52.63 1.28 31.57 100 0 LF Р ٧ 101.28 28.98 -14.52 43.5 42.46 16.49 1.55 31.52 -297.3 22.38 -23.62 46 31.56 19.78 2.32 31.28 Ρ V Ρ ٧ 860.7 32.33 -13.67 46 29.96 28.76 4.17 30.56 Ρ 885.2 32.58 -13.42 46 30.05 28.91 4.17 30.55 --V Р 934.9 33.21 -12.79 46 29.77 29.85 4.12 30.53 ٧ ٧ V ٧ ٧ ٧ ٧ No other spurious found. Remark

2. All results are PASS against limit line.

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TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

: B14 of B16

Note symbol

Report No. : FR661812F

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

SPORTON INTERNATIONAL INC. Page Number : B15 of B16

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

Report No.: FR661812F

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

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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/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. Page Number : B16 of B16