Appendix B. Radiated Spurious Emission

測試工程師:	Bill Chang, Ken Wu andJ.C. Liang	溫度:	20~23°C
		相對溼度:	54~56%

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)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	, ,
		2346.81	50.44	-23.56	74	51.61	26.87	5.95	33.99	198	305	Р	Н
		2390	39.68	-14.32	54	40.64	27.01	6.01	33.98	198	305	Α	Н
	*	2412	96.18	-	-	97.06	27.06	6.04	33.98	198	305	Р	Н
	*	2412	93.71	-	-	94.59	27.06	6.04	33.98	198	305	Α	Н
802.11b													Н
CH 01													Н
2412MHz		2357.25	50.57	-23.43	74	51.7	26.91	5.95	33.99	349	315	Р	V
Z-7 Z W 12		2389.47	39.8	-14.2	54	40.77	27.01	6.01	33.99	349	315	Α	V
	*	2410.604	91.55	-	-	92.43	27.06	6.04	33.98	349	315	Р	٧
	*	2410.771	88.98	-	-	89.86	27.06	6.04	33.98	349	315	Α	٧
													٧
													٧
		2382.9	50.29	-23.71	74	51.31	26.96	6.01	33.99	222	305	Р	Н
		2389.74	39.54	-14.46	54	40.51	27.01	6.01	33.99	222	305	Α	Н
	*	2437	94.42	-	-	95.19	27.16	6.04	33.97	222	305	Р	Н
	*	2437	91.91	-	-	92.68	27.16	6.04	33.97	222	305	Α	Н
000 445		2490.96	51.09	-22.91	74	51.65	27.3	6.09	33.95	222	305	Р	Н
802.11b CH 06		2484.36	39.91	-14.09	54	40.52	27.25	6.09	33.95	222	305	Α	Н
2437MHz		2321.97	50.67	-23.33	74	51.96	26.82	5.89	34	103	333	Р	٧
2407111112		2384.97	39.52	-14.48	54	40.54	26.96	6.01	33.99	103	333	Α	V
	*	2437	93.69	-	-	94.46	27.16	6.04	33.97	103	333	Р	٧
	*	2437	91.11	-	-	91.88	27.16	6.04	33.97	103	333	Α	٧
		2486.68	51.58	-22.42	74	52.19	27.25	6.09	33.95	103	333	Р	٧
		2485.44	40.05	-13.95	54	40.66	27.25	6.09	33.95	103	333	Α	V

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	*	2462	92.85	-	-	93.54	27.2	6.07	33.96	192	305	Р	Н
	*	2462	90.36	-	-	91.05	27.2	6.07	33.96	192	305	Α	Н
		2496.44	51.49	-22.51	74	52.04	27.3	6.09	33.94	192	305	Р	Н
		2483.6	39.98	-14.02	54	40.59	27.25	6.09	33.95	192	305	Α	H
202 44h													ŀ
802.11b													ŀ
CH 11 462MHz	*	2462	93.99	-	-	94.68	27.2	6.07	33.96	107	334	Р	١
402IVII IZ	*	2462	91.37	-	-	92.06	27.2	6.07	33.96	107	334	Α	١
		2490.84	52.03	-21.97	74	52.59	27.3	6.09	33.95	107	334	Р	١
		2484.76	40.05	-13.95	54	40.66	27.25	6.09	33.95	107	334	Α	١
													١
													\

Remark

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^{1.} No other spurious found.

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

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level	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)	
•		4824	44.32	-29.68	74	69.62	31.12	8.65	65.07	100	0	P	Н
													Н
													Н
802.11b													Н
CH 01		4824	36.71	-37.29	74	62.01	31.12	8.65	65.07	100	0	Р	V
2412MHz													V
													V
													V
		4874	44.58	-29.42	74	69.7	31.21	8.69	65.02	100	0	Р	Н
		7311	44.92	-29.08	74	63.51	36.08	10.39	65.06	100	0	Р	Н
000 445													Н
802.11b CH 06													Н
2437MHz		4874	36.89	-37.11	74	62.01	31.21	8.69	65.02	100	0	Р	V
2437111112		7311	42	-32	74	60.59	36.08	10.39	65.06	100	0	Р	V
													V
													V
		4924	42.07	-31.93	74	66.96	31.29	8.79	64.97	100	0	Р	Н
		7386	43.1	-30.9	74	61.43	36.27	10.48	65.08	100	0	Р	Н
802.11b													Н
CH 11													Н
		4924	34.88	-39.12	74	59.77	31.29	8.79	64.97	100	0	Р	V
2462MHz		7386	39.54	-34.46	74	57.87	36.27	10.48	65.08	100	0	Р	V
													V
													V

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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)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	, ,
		2372.64	50.43	-23.57	74	51.45	26.96	6.01	33.99	221	305	Р	Н
		2387.85	40.83	-13.17	54	41.8	27.01	6.01	33.99	221	305	Α	Н
	*	2412	97.95	-	-	98.83	27.06	6.04	33.98	221	305	Р	Н
	*	2412	90.56	-	-	91.44	27.06	6.04	33.98	221	305	Α	Н
802.11g													Н
CH 01													Н
2412MHz		2357.52	51.19	-22.81	74	52.32	26.91	5.95	33.99	147	334	Р	V
2412191112		2371.2	40.48	-13.52	54	41.5	26.96	6.01	33.99	147	334	Α	٧
	*	2412	94.01	-	-	94.89	27.06	6.04	33.98	147	334	Р	V
	*	2412	86.82	-	-	87.7	27.06	6.04	33.98	147	334	Α	V
													٧
													٧
		2331.69	50.42	-23.58	74	51.65	26.82	5.95	34	345	226	Р	Н
		2383.89	40.87	-13.13	54	41.89	26.96	6.01	33.99	345	226	Α	Н
	*	2437	100.22	-	-	100.99	27.16	6.04	33.97	345	226	Р	Н
	*	2437	92.81	-	-	93.58	27.16	6.04	33.97	345	226	Α	П
000 44 =		2488.96	51.25	-22.75	74	51.81	27.3	6.09	33.95	345	226	Р	Н
802.11g CH 06		2484.04	41.58	-12.42	54	42.19	27.25	6.09	33.95	345	226	Α	Н
2437MHz		2366.7	51	-23	74	52.07	26.91	6.01	33.99	125	332	Р	V
2701 WII IZ		2373.99	40.38	-13.62	54	41.4	26.96	6.01	33.99	125	332	Α	٧
	*	2437	96.29	-	-	97.06	27.16	6.04	33.97	125	332	Р	٧
	*	2437	88.92	-	-	89.69	27.16	6.04	33.97	125	332	Α	٧
		2484.52	51.15	-22.85	74	51.76	27.25	6.09	33.95	125	332	Р	V
		2485.96	41.45	-12.55	54	42.06	27.25	6.09	33.95	125	332	Α	V

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	*	2462	97.92	-	-	98.61	27.2	6.07	33.96	362	234	Р	
	*	2462	90.21	-	-	90.9	27.2	6.07	33.96	362	234	Α	Ī
		2483.84	54.28	-19.72	74	54.89	27.25	6.09	33.95	362	234	Р	
		2483.52	44.26	-9.74	54	44.87	27.25	6.09	33.95	362	234	Α	
2.11g													
:H 11													
,п II 62MHz	*	2462	94.94	-	-	95.63	27.2	6.07	33.96	111	333	Р	
OZIVII IZ	*	2462	87.29	-	-	87.98	27.2	6.07	33.96	111	333	Α	
		2483.92	54.54	-19.46	74	55.15	27.25	6.09	33.95	111	333	Р	
		2483.52	44.01	-9.99	54	44.62	27.25	6.09	33.95	111	333	Α	

Remark

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No other spurious found.

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

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(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)
		4824	41.12	-32.88	74	66.42	31.12	8.65	65.07	100	0	Р	Н
													Н
													Н
802.11g													Н
CH 01 2412MHz		4824	34.21	-39.79	74	59.51	31.12	8.65	65.07	100	0	Р	V
24 I ZIVINZ													V
													V
													V
		4874	43.37	-30.63	74	68.49	31.21	8.69	65.02	100	0	Р	Н
		7311	44.77	-29.23	74	63.36	36.08	10.39	65.06	100	0	Р	Н
000 44													Н
802.11g CH 06													Н
2437MHz		4874	34.47	-39.53	74	59.59	31.21	8.69	65.02	100	0	Р	V
2437 WII 12		7311	41.73	-32.27	74	60.32	36.08	10.39	65.06	100	0	Р	V
													V
													V
		4924	40.44	-33.56	74	65.33	31.29	8.79	64.97	100	0	Р	Н
		7386	43.56	-30.44	74	61.89	36.27	10.48	65.08	100	0	Р	Н
802.11g													Н
CH 11													Н
		4924	33.51	-40.49	74	58.4	31.29	8.79	64.97	100	0	Р	V
2462MHz		7386	38.14	-35.86	74	56.47	36.27	10.48	65.08	100	0	Р	V
													V
													V

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Page Number : B6 of B27

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)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		43.23	23.07	-16.93	40	36.15	18.06	0.67	31.81	-	-	Р	Н
		104.25	27.88	-15.62	43.5	41.73	16.65	1.28	31.78	-	-	Р	Н
		216.03	33.99	-12.01	46	47.78	16.2	1.79	31.78	177	36	Р	Н
		320.3	26.47	-19.53	46	35.86	20.27	2.11	31.77	-	-	Р	Н
		745.9	29.48	-16.52	46	30.59	27.62	3.25	31.98	-	-	Р	Н
		957.3	33.5	-12.5	46	30.22	30.58	3.68	30.98	-	-	Р	Н
													Н
													Н
													Н
													Н
													Н
2.4GHz 802.11g													Н
802.11g LF		43.5	35.62	-4.38	40	48.7	18.06	0.67	31.81	190	342	Р	V
LF		151.23	26.49	-17.01	43.5	39.46	17.35	1.46	31.78	-	-	Р	V
		201.45	30.03	-13.47	43.5	44.13	16.04	1.64	31.78	-	-	Р	٧
		314.7	23.66	-22.34	46	33.19	20.13	2.11	31.77	-	-	Р	٧
		705.3	29.1	-16.9	46	31.19	26.8	3.14	32.03	-	-	Р	٧
		943.3	33.5	-12.5	46	30.47	30.44	3.68	31.09	-	-	Р	٧
													٧
													V
													٧
													V
													V
													٧
	1. No	other spurious	s found.	1	I				1	1	<u>I</u>	1	
Remark	2. All	results are PA	SS against li	mit line.									

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

Page Number : B7 of B27

Note symbol

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

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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		(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(dBµV) - 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(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($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

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

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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)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		2378.94	50.45	-23.55	74	51.47	26.96	6.01	33.99	200	26	Р	Н
		2390	39.93	-14.07	54	40.89	27.01	6.01	33.98	200	26	Α	Н
	*	2410.688	98.68	-	-	99.56	27.06	6.04	33.98	200	26	Р	Н
	*	2410.771	96.18	-	-	97.06	27.06	6.04	33.98	200	26	Α	Н
802.11b													Н
													Н
CH 01 2412MHz		2358.33	50.78	-23.22	74	51.91	26.91	5.95	33.99	261	42	Р	٧
2412141712		2390	39.78	-14.22	54	40.74	27.01	6.01	33.98	261	42	Α	٧
	*	2413.36	92.22	-	-	93.1	27.06	6.04	33.98	261	42	Р	V
	*	2413.36	89.73	-	-	90.61	27.06	6.04	33.98	261	42	Α	٧
													٧
													٧
		2387.4	50.8	-23.2	74	51.77	27.01	6.01	33.99	224	26	Р	Н
		2389.47	39.7	-14.3	54	40.67	27.01	6.01	33.99	224	26	Α	Н
	*	2438.243	98.07	-	-	98.84	27.16	6.04	33.97	224	26	Р	Н
	*	2438.243	95.56	-	-	96.33	27.16	6.04	33.97	224	26	Α	Н
		2485.28	50.84	-23.16	74	51.45	27.25	6.09	33.95	224	26	Р	Н
802.11b		2483.76	40.46	-13.54	54	41.07	27.25	6.09	33.95	224	26	Α	Н
CH 06 2437MHz		2382.81	50.07	-23.93	74	51.09	26.96	6.01	33.99	100	260	Р	٧
2437 WITIZ		2388.3	39.68	-14.32	54	40.65	27.01	6.01	33.99	100	260	Α	V
	*	2435.738	91.31	-	-	92.13	27.11	6.04	33.97	100	260	Р	V
	*	2435.738	88.78	-	-	89.6	27.11	6.04	33.97	100	260	Α	V
		2496.16	51.9	-22.1	74	52.45	27.3	6.09	33.94	100	260	Р	V
		2485.32	40.11	-13.89	54	40.72	27.25	6.09	33.95	100	260	Α	V

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		1	,	_		,		,	,				,
	*	2463.543	99.94	-	-	100.63	27.2	6.07	33.96	170	26	Р	Н
	*	2463.376	97.44	-	-	98.13	27.2	6.07	33.96	170	26	Α	Н
		2483.52	51.96	-22.04	74	52.57	27.25	6.09	33.95	170	26	Р	Н
		2483.52	41.57	-12.43	54	42.18	27.25	6.09	33.95	170	26	Α	Н
													Н
802.11b													Н
CH 11 2462MHz	*	2460.705	92.37	-	-	93.06	27.2	6.07	33.96	100	263	Р	٧
2402WITIZ	*	2460.788	89.89	-	-	90.58	27.2	6.07	33.96	100	263	Α	٧
		2487.68	50.88	-23.12	74	51.44	27.3	6.09	33.95	100	263	Р	V
		2483.56	40.31	-13.69	54	40.92	27.25	6.09	33.95	100	263	Α	V
													V
													V
	1. N	lo other spurious	s found.			•	•	•					
Remark													
	2. A	Il results are PA	SS against	Peak and	Average lim	it line.							

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WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 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)
		4824	45.15	-28.85	74	70.45	31.12	8.65	65.07	100	0	Р	Н
													Н
222 441													Н
802.11b													Н
CH 01		4824	36.21	-37.79	74	61.51	31.12	8.65	65.07	100	0	Р	V
2412MHz													V
													V
													V
		4874	44.73	-29.27	74	69.85	31.21	8.69	65.02	100	0	Р	Н
		7311	42.05	-31.95	74	60.64	36.08	10.39	65.06	100	0	Р	Н
													Н
802.11b CH 06													Н
2437MHz		4874	36.29	-37.71	74	61.41	31.21	8.69	65.02	100	0	Р	V
2437 WITZ		7311	38.39	-35.61	74	56.98	36.08	10.39	65.06	100	0	Р	V
													V
													V
		4924	45.85	-28.15	74	70.74	31.29	8.79	64.97	100	0	Р	Н
		7386	41.95	-32.05	74	60.28	36.27	10.48	65.08	100	0	Р	Н
222 441													Н
802.11b													Н
CH 11		4924	38.6	-35.4	74	63.49	31.29	8.79	64.97	100	0	Р	V
2462MHz		7386	39.09	-34.91	74	57.42	36.27	10.48	65.08	100	0	Р	V
													V
													V

SPORTON INTERNATIONAL INC.

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

Page Number : B12 of B27

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.	4150
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	, ,
		2390	51.37	-22.63	74	52.33	27.01	6.01	33.98	157	24	Р	Н
		2390	41.75	-12.25	54	42.71	27.01	6.01	33.98	157	24	Α	Н
	*	2412	100.53	-	-	101.41	27.06	6.04	33.98	157	24	Р	Н
	*	2412	93.11	-	-	93.99	27.06	6.04	33.98	157	24	Α	Н
802.11g													Н
CH 01													Н
2412MHz		2345.46	50.36	-23.64	74	51.53	26.87	5.95	33.99	241	277	Р	V
24 1 2 IVII 12		2389.83	40.66	-13.34	54	41.62	27.01	6.01	33.98	241	277	Α	V
	*	2412	93.68	-	-	94.56	27.06	6.04	33.98	241	277	Р	V
	*	2412	86.15	-	-	87.03	27.06	6.04	33.98	241	277	Α	V
													V
													٧
		2332.68	50.96	-23.04	74	52.19	26.82	5.95	34	152	28	Р	Н
		2370.48	40.48	-13.52	54	41.5	26.96	6.01	33.99	152	28	Α	Н
	*	2437	99.42	-	-	100.19	27.16	6.04	33.97	152	28	Р	Н
	*	2437	91.84	-	-	92.61	27.16	6.04	33.97	152	28	Α	Н
		2486.48	51.29	-22.71	74	51.9	27.25	6.09	33.95	152	28	Р	Н
802.11g CH 06		2486.52	41.75	-12.25	54	42.36	27.25	6.09	33.95	152	28	Α	Н
2437MHz		2318.73	50.27	-23.73	74	51.56	26.82	5.89	34	100	238	Р	V
1-101 WH 12		2380.2	40.41	-13.59	54	41.43	26.96	6.01	33.99	100	238	Α	V
	*	2437	93.92	-	-	94.69	27.16	6.04	33.97	100	238	Р	٧
	*	2437	86.25	-	-	87.02	27.16	6.04	33.97	100	238	Α	V
		2490.4	51.31	-22.69	74	51.87	27.3	6.09	33.95	100	238	Р	V
		2488.36	41.12	-12.88	54	41.68	27.3	6.09	33.95	100	238	Α	V

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



	*	2462	100.59	-	-	101.28	27.2	6.07	33.96	113	47	Р	Н
	*	2462	92.67	-	-	93.36	27.2	6.07	33.96	113	47	Α	Н
		2492.8	52.12	-21.88	74	52.67	27.3	6.09	33.94	113	47	Р	Н
		2487.6	41.78	-12.22	54	42.34	27.3	6.09	33.95	113	47	Α	Н
													Н
802.11g													Н
CH 11 2462MHz	*	2462	95.33	-	-	96.02	27.2	6.07	33.96	100	293	Р	٧
2402WINZ	*	2462	87.77	-	-	88.46	27.2	6.07	33.96	100	293	Α	٧
		2488.08	51.02	-22.98	74	51.58	27.3	6.09	33.95	100	293	Р	>
		2488.96	40.89	-13.11	54	41.45	27.3	6.09	33.95	100	293	Α	>
													٧
													V
	1. No	o other spurious	s found.										
Remark		I results are PA		Peak and	Average lim	nit line.							

SPORTON INTERNATIONAL INC.

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

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	43.05	-30.95	74	68.35	31.12	8.65	65.07	100	0	Р	Н
													Н
802.11g													Н
CH 01													Н
2412MHz		4824	34.14	-39.86	74	59.44	31.12	8.65	65.07	100	0	Р	V
24 I ZIVINZ													V
													V
													V
		4874	43.14	-30.86	74	68.26	31.21	8.69	65.02	100	0	Р	Н
		7311	41.96	-32.04	74	60.55	36.08	10.39	65.06	100	0	Р	Н
000 44													Н
802.11g CH 06 2437MHz													Н
		4874	34.81	-39.19	74	59.93	31.21	8.69	65.02	100	0	Р	V
2407 1111 12		7311	38.03	-35.97	74	56.62	36.08	10.39	65.06	100	0	Р	V
													V
													V
		4924	42.63	-31.37	74	67.52	31.29	8.79	64.97	100	0	Р	Н
		7386	41.23	-32.77	74	59.56	36.27	10.48	65.08	100	0	Р	Н
902 44 ~													Н
802.11g													Н
CH 11		4924	36.8	-37.2	74	61.69	31.29	8.79	64.97	100	0	Р	V
2462MHz		7386	38.83	-35.17	74	57.16	36.27	10.48	65.08	100	0	Р	V
													V
													V

SPORTON INTERNATIONAL INC.

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

Page Number : B15 of B27

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.	
2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		43.23	22.64	-17.36	40	35.72	18.06	0.67	31.81	-	-	Р	Н
		102.9	26.47	-17.03	43.5	40.54	16.43	1.28	31.78	-	-	Р	Н
		216.03	29.69	-16.31	46	43.48	16.2	1.79	31.78	138	64	Р	Н
		317.5	24.4	-21.6	46	33.88	20.18	2.11	31.77	-	-	Р	Н
		717.2	29.06	-16.94	46	30.91	27.03	3.14	32.02	-	-	Р	Н
		976.2	33.46	-20.54	54	29.96	30.55	3.78	30.83	-	-	Р	Н
													Н
													Н
													Н
													Н
2.4GHz													Н
													Н
802.11g LF		43.5	35.06	-4.94	40	48.14	18.06	0.67	31.81	200	148	Р	V
		123.15	21.91	-21.59	43.5	34.62	17.79	1.28	31.78	-	-	Р	V
		201.45	25.94	-17.56	43.5	40.04	16.04	1.64	31.78	-	-	Р	V
		374.2	23.91	-22.09	46	31.64	21.74	2.32	31.79	-	-	Р	V
		692	28.59	-17.41	46	30.88	26.61	3.14	32.04	-	-	Р	V
		939.8	33.55	-12.45	46	30.65	30.33	3.68	31.11	-	-	Р	V
													V
													V
													V
													V
													V
													V

SPORTON INTERNATIONAL INC.

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

Page Number : B16 of B27

Note symbol

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

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

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.	
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

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($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -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

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)		(P/A)	, ,
		2389.83	54.06	-19.94	74	55.02	27.01	6.01	33.98	178	352	Р	Н
		2390	43.99	-10.01	54	44.95	27.01	6.01	33.98	178	352	Α	Н
	*	2412	104.21	-	-	105.09	27.06	6.04	33.98	178	352	Р	Н
	*	2412	97.15	-	-	98.03	27.06	6.04	33.98	178	352	Α	Н
802.11n													Н
HT20													I
CH 01		2385.06	50.77	-23.23	74	51.79	26.96	6.01	33.99	291	55	Р	٧
2412MHz		2389.65	40.94	-13.06	54	41.91	27.01	6.01	33.99	291	55	Α	٧
	*	2412	98.05	-	-	98.93	27.06	6.04	33.98	291	55	Р	٧
	*	2412	90.9	-	-	91.78	27.06	6.04	33.98	291	55	Α	٧
													٧
													٧
		2324.85	51.55	-22.45	74	52.78	26.82	5.95	34	100	240	Р	Н
		2389.56	41.2	-12.8	54	42.17	27.01	6.01	33.99	100	240	Α	Н
	*	2437	103.78	-	-	104.55	27.16	6.04	33.97	100	240	Р	Н
	*	2437	96.31	-	-	97.08	27.16	6.04	33.97	100	240	Α	Н
802.11n		2484.12	52.17	-21.83	74	52.78	27.25	6.09	33.95	100	240	Р	Н
HT20		2485.68	41.93	-12.07	54	42.54	27.25	6.09	33.95	100	240	Α	Н
CH 06		2341.59	50.42	-23.58	74	51.59	26.87	5.95	33.99	221	34	Р	V
2437MHz		2390	40.75	-13.25	54	41.71	27.01	6.01	33.98	221	34	Α	V
	*	2437	97.98	-	-	98.75	27.16	6.04	33.97	221	34	Р	V
	*	2437	91.06	-	-	91.83	27.16	6.04	33.97	221	34	Α	V
		2484.8	52.04	-21.96	74	52.65	27.25	6.09	33.95	221	34	Р	V
		2484.92	41.89	-12.11	54	42.5	27.25	6.09	33.95	221	34	Α	٧

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



2462 2462 2484.4 2483.76	103.11 95.68 64.09 51.72	- -9.91 -2.28	- 74 54	103.8 96.37 64.7 52.33	27.2 27.2 27.25 27.25	6.07 6.07 6.09 6.09	33.96 33.96 33.95 33.95	128 128 128 128	236 236 236 236	P A P A	H H H
2484.4	64.09	-9.91	74	64.7	27.25	6.09	33.95	128	236	Р	Н
_											Н
2483.76	51.72	-2.28	54	52.33	27.25	6.09	33.95	128	236	Α	
											Н
											Н
2462	99.93	-	-	100.62	27.2	6.07	33.96	310	73	Р	V
2462	92.25	-	-	92.94	27.2	6.07	33.96	310	73	Α	٧
2484.36	62.97	-11.03	74	63.58	27.25	6.09	33.95	310	73	Р	٧
2483.52	49.42	-4.58	54	50.03	27.25	6.09	33.95	310	73	Α	V
											V
											V
	2462 2484.36 2483.52	2462 92.25 2484.36 62.97	2462 92.25 - 2484.36 62.97 -11.03 2483.52 49.42 -4.58	2462 92.25 - - 2484.36 62.97 -11.03 74 2483.52 49.42 -4.58 54	2462 92.25 - - 92.94 2484.36 62.97 -11.03 74 63.58 2483.52 49.42 -4.58 54 50.03	2462 92.25 - - 92.94 27.2 2484.36 62.97 -11.03 74 63.58 27.25 2483.52 49.42 -4.58 54 50.03 27.25	2462 92.25 - - 92.94 27.2 6.07 2484.36 62.97 -11.03 74 63.58 27.25 6.09 2483.52 49.42 -4.58 54 50.03 27.25 6.09	2462 92.25 - - 92.94 27.2 6.07 33.96 2484.36 62.97 -11.03 74 63.58 27.25 6.09 33.95 2483.52 49.42 -4.58 54 50.03 27.25 6.09 33.95	2462 92.25 - - 92.94 27.2 6.07 33.96 310 2484.36 62.97 -11.03 74 63.58 27.25 6.09 33.95 310 2483.52 49.42 -4.58 54 50.03 27.25 6.09 33.95 310	2462 92.25 - - 92.94 27.2 6.07 33.96 310 73 2484.36 62.97 -11.03 74 63.58 27.25 6.09 33.95 310 73 2483.52 49.42 -4.58 54 50.03 27.25 6.09 33.95 310 73	2462 92.25 - - 92.94 27.2 6.07 33.96 310 73 A 2484.36 62.97 -11.03 74 63.58 27.25 6.09 33.95 310 73 P 2483.52 49.42 -4.58 54 50.03 27.25 6.09 33.95 310 73 A

1. No other spurious found.

Remark

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

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

Report No. : FR5O1213C

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	44	-30	74	69.3	31.12	8.65	65.07	100	0	Р	Н
													Н
802.11n													Н
HT20													Н
CH 01		4824	37.43	-36.57	74	62.73	31.12	8.65	65.07	100	0	Р	V
2412MHz													V
													V
													٧
		4874	44.75	-29.25	74	69.87	31.21	8.69	65.02	100	0	Р	Н
		7311	45.08	-28.92	74	63.67	36.08	10.39	65.06	100	0	Р	Н
802.11n													Н
HT20													Н
CH 06		4874	36.12	-37.88	74	61.24	31.21	8.69	65.02	100	0	Р	V
2437MHz		7311	42.82	-31.18	74	61.41	36.08	10.39	65.06	100	0	Р	V
													٧
													V
		4924	45.78	-28.22	74	70.67	31.29	8.79	64.97	100	0	Р	Н
		7386	46.46	-27.54	74	64.79	36.27	10.48	65.08	100	0	Р	Н
802.11n													Н
HT20													Н
CH 11		4924	36.12	-37.88	74	61.01	31.29	8.79	64.97	100	0	Р	V
2462MHz		7386	42.2	-31.8	74	60.53	36.27	10.48	65.08	100	0	Р	٧
													٧
													V
Remark		o other spurious)	I Avenue === !	it line			<u> </u>				L

SPORTON INTERNATIONAL INC.

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

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.		(N 411)	(15)(()	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)		
		2390	54.71	-19.29	74	55.67	27.01	6.01	33.98	280	238	Р	Н
		2390	47.85	-6.15	54	48.81	27.01	6.01	33.98	280	238	Α	Н
	*	2422	101.29	-	-	102.11	27.11	6.04	33.97	280	238	Р	Н
	*	2422	93.96	-	-	94.78	27.11	6.04	33.97	280	238	Α	Н
802.11n		2484.76	51.46	-22.54	74	52.07	27.25	6.09	33.95	280	238	Р	Н
HT40		2483.92	42.46	-11.54	54	43.07	27.25	6.09	33.95	280	238	Α	Н
CH 03		2318.46	50.07	-23.93	74	51.36	26.82	5.89	34	100	255	Р	<
2422MHz		2389.74	43.01	-10.99	54	43.98	27.01	6.01	33.99	100	255	Α	٧
	*	2422	94.67	-	-	95.49	27.11	6.04	33.97	100	255	Р	٧
	*	2422	87.73	-	-	88.55	27.11	6.04	33.97	100	255	Α	V
		2494.16	51.79	-22.21	74	52.34	27.3	6.09	33.94	100	255	Р	V
		2483.92	42.34	-11.66	54	42.95	27.25	6.09	33.95	100	255	Α	٧
		2368.14	50.97	-23.03	74	52.04	26.91	6.01	33.99	100	238	Р	Н
		2389.83	42.37	-11.63	54	43.33	27.01	6.01	33.98	100	238	Α	П
	*	2437	100.37	-	-	101.14	27.16	6.04	33.97	100	238	Р	I
	*	2437	93.57	-	-	94.34	27.16	6.04	33.97	100	238	Α	Н
802.11n		2484.72	52.59	-21.41	74	53.2	27.25	6.09	33.95	100	238	Р	Н
HT40		2484.2	43.83	-10.17	54	44.44	27.25	6.09	33.95	100	238	Α	Н
CH 06		2317.92	50.51	-23.49	74	51.8	26.82	5.89	34	100	253	Р	٧
2437MHz		2383.44	41.52	-12.48	54	42.54	26.96	6.01	33.99	100	253	Α	٧
	*	2437	93.95	-	-	94.72	27.16	6.04	33.97	100	253	Р	٧
	*	2437	87.2	-	-	87.97	27.16	6.04	33.97	100	253	Α	V
		2497.6	50.81	-23.19	74	51.36	27.3	6.09	33.94	100	253	Р	V
		2484.28	42.36	-11.64	54	42.97	27.25	6.09	33.95	100	253	Α	٧

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



		2384.43	51.29	-22.71	74	52.31	26.96	6.01	33.99	100	239	Р	Н
		2366.07	41.53	-12.47	54	42.6	26.91	6.01	33.99	100	239	Α	Н
	*	2452	99.9	-	-	100.63	27.16	6.07	33.96	100	239	Р	Н
	*	2452	92.65	-	-	93.38	27.16	6.07	33.96	100	239	Α	Н
802.11n		2484.08	54.82	-19.18	74	55.43	27.25	6.09	33.95	100	239	Р	Н
HT40		2484.04	46.01	-7.99	54	46.62	27.25	6.09	33.95	100	239	Α	Н
CH 09		2372.01	50.67	-23.33	74	51.69	26.96	6.01	33.99	100	301	Р	V
2452MHz		2382.18	41.45	-12.55	54	42.47	26.96	6.01	33.99	100	301	Α	V
	*	2452	94.31	-	-	95.04	27.16	6.07	33.96	100	301	Р	V
	*	2452	87.57	-	-	88.3	27.16	6.07	33.96	100	301	Α	V
		2484.44	53.76	-20.24	74	54.37	27.25	6.09	33.95	100	301	Р	V
		2484.64	44.28	-9.72	54	44.89	27.25	6.09	33.95	100	301	Α	V
Remark	1. No	o other spurious	s found.	1		1	1	1	1	1	1	ı	,

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

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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	43.31	-30.69	74	68.53	31.15	8.69	65.06	100	0	Р	Н
		7266	44.7	-29.3	74	63.41	36.01	10.34	65.06	100	0	Р	Н
802.11n													Н
HT40													Н
CH 03		4844	34.46	-39.54	74	59.68	31.15	8.69	65.06	100	0	Р	٧
2422MHz		7266	40.07	-33.93	74	58.78	36.01	10.34	65.06	100	0	Р	V
													V
													V
		4874	44.76	-29.24	74	69.88	31.21	8.69	65.02	100	0	Р	Н
		7311	44.14	-29.86	74	62.73	36.08	10.39	65.06	100	0	Р	Н
802.11n													Н
HT40													Н
CH 06		4874	36.82	-37.18	74	61.94	31.21	8.69	65.02	100	0	Р	V
2437MHz		7311	39.34	-34.66	74	57.93	36.08	10.39	65.06	100	0	Р	V
													V
													V
		4904	42.78	-31.22	74	67.77	31.26	8.74	64.99	100	0	Р	Н
		7356	42.81	-31.19	74	61.24	36.2	10.44	65.07	100	0	Р	Н
802.11n													Н
HT40													Н
CH 09		4904	36.41	-37.59	74	61.4	31.26	8.74	64.99	100	0	Р	V
2452MHz		7356	39.63	-34.37	74	58.06	36.2	10.44	65.07	100	0	Р	V
													V
													V
Remark	1. No	other spurious	s found.									•	
Kemark	2. All	results are PA	SS against F	eak and	Average lim	it line.							

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Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (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+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V
		42.96	22.68	-17.32	40	35.2	18.62	0.67	31.81	-	-	Р	Н
		101.55	26.98	-16.52	43.5	41.16	16.32	1.28	31.78	-	-	Р	Н
		216.03	30.07	-15.93	46	43.86	16.2	1.79	31.78	-	-	Р	Н
		314.7	24.04	-21.96	46	33.57	20.13	2.11	31.77	-	-	Р	Н
		642.3	27.81	-18.19	46	30.77	26.12	2.96	32.04	-	-	Р	Н
		943.3	33.11	-12.89	46	30.08	30.44	3.68	31.09	100	83	Р	Н
													Н
													Н
													Н
													Н
2.4GHz													Н
802.11n													Н
HT20		43.5	35.25	-4.75	40	48.33	18.06	0.67	31.81	220	150	Р	V
LF		138.81	27.05	-16.45	43.5	39.46	17.91	1.46	31.78	-	-	Р	V
		201.45	26.2	-17.3	43.5	40.3	16.04	1.64	31.78	-	-	Р	V
		311.9	23.47	-22.53	46	33.07	20.05	2.11	31.76	-	-	Р	V
		694.8	28.63	-17.37	46	30.89	26.64	3.14	32.04	-	-	Р	V
		996.5	33.82	-20.18	54	30.2	30.51	3.78	30.67	-	-	Р	V
													V
													V
													V
													V
													V
													V

All results are PASS against limit line.

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Note symbol

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

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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

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

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

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

For Peak Limit @ 2390MHz:

- 5. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 6. 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:

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

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

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