

Trace: (Discrete)
Site : 03CH06
Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL

802.11a/b/g Access Point AC 120V / 60Hz EUT Power Model WASP - 5110 802.11a TX 5240MHz

_	Freq MHz 15546.00	dBu∀/m 58.57	Limit dB -15.43	Line dBuV/m 74.00	Factor dB/m 43.28	Factor dB 45.59	Loss dB 9.41	Peak			able Pos deg
97	Level (dBu\	//m)		CALLA ARRONAL OCACOCA	347641364 1.330332166		Dat	te: 2004-07	-21 Time:	10:08:22	
						-			FCC C	LASS-B -6dB	
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0	4000	4400		400				200		200	
	97	97 Level (dBu)	Freq Level MHz dBuV/m 15546.00 58.57 15546.00 46.57 Level (dBuV/m) 49	Freq Level Limit MHz dBuV/m dB 15546.00 58.57 -15.43 15546.00 46.57 -7.43 Level (dBuV/m) 49	Preq Level Limit Line MHz dBuV/m dB dBuV/m 15546.00 58.57 -15.43 74.00 15546.00 46.57 -7.43 54.00 Level (dBuV/m) 49	Over LimitAntenna Freq Level Limit Line Factor MHz dBuV/m dB dBuV/m dB/m 15546.00 58.57 -15.43 74.00 43.28 15546.00 46.57 -7.43 54.00 43.28 Level (dBuV/m) 97	Over Limit Antenna Preamp Limit Line Factor Factor	Over Limit Antenna Preamp Cable	Freq Level Limit Line Factor Factor Cable Loss Remark	Over LimitAntenna Preamp Cable Loss Remark	Over Limit Antenna Preamp Cable Loss Remark Pos

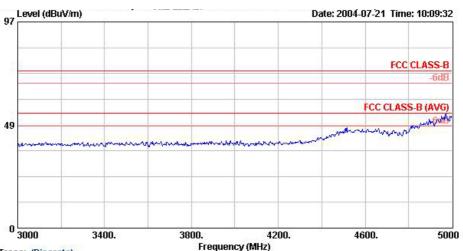
: 03CH06 Site

Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz : WASP - 5110 : 802.11a TX 5240MHz Model Memo

SPORTON International Inc.

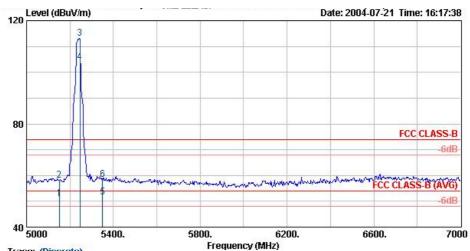
FCC ID : H9PWSAP5100 : 58 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



Trace: (Discrete)

Site

03CH06 FCC CLASS-B 3m HF-HORN AH-118 VERTICAL 802.11a/b/g Access Point AC 120V / 60Hz Condition EUT Power Model WASP - 5110 Memo 802.11a TX 5240MHz



Trace: (Discrete)

Site Condition FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

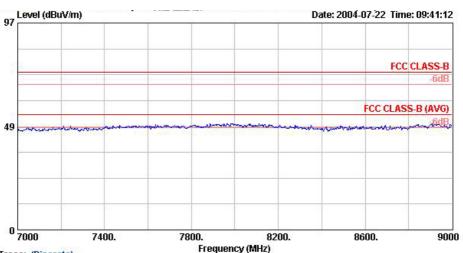
EUT 802.11a/b/g Access Point Power AC 120V/60Hz WASP - 5110 802.11a TX 5240MHz Model

Memo	. 002.11a 1A J240W11Z	22					72			
	Freq	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBu∛/m	$\overline{dBuV/m}$	dB/m	dB	dB		сп	deg
1 [5150.00	-2.96	51.04	54.00	33.71	45.91	5.00	Average	0	0
2	5150.00	-15, 73	58.27	74.00	33.71	45.91		Peak	0	0
3 X	5246.52		113.17		33.85	46.05	5.07	Peak	0	0
4 @	5246.52		103.83		33.85	46.05	5.07	Average	0	0
5 !	5350.00	-2.52	51.48	54.00	33.99	46.19		Average	Ü	Û
6	5350.00	-15.63	58, 37	74.00	33, 99	46.19	5.14	Peak	Û	0

Remark: The "X" represent a fundamental frequency.

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FCC ID : H9PWSAP5100 : 59 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004

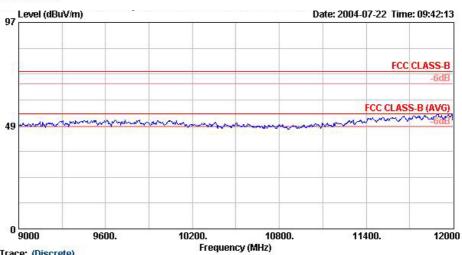


Trace: (Discrete)

03CH06

FCC CLASS-B 3m HF-HORN AH-118 VERTICAL Condition

802.11a/b/g Access Point AC 120V / 60Hz WASP - 5110 802.11a TX 5240MHz EUT Power Model Memo

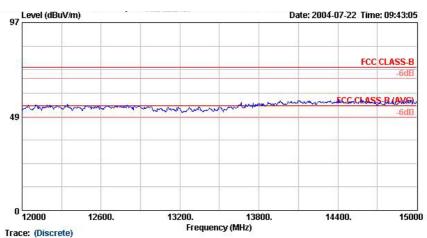


Trace: (Discrete) : 03CH06

Site Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

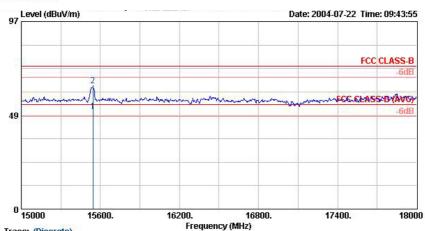
EUT 802.11a/b/g Access Point Power AC 120V / 60Hz WASP - 5110 802.11a TX 5240MHz Model Memo

FCC ID : H9PWSAP5100 : 60 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



Site : 03CH06
Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

802.11a/b/g Access Point AC 120V / 60Hz WASP - 5110 EUT Power 802.11a TX 5240MHz



Trace: (Discrete): 03CH06

Site Condition EUT FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

: 802.11ab/g Access Point : AC 120V / 60Hz : WASP - S110 : 802.11a TX 5240MHz Power Model

	Freq	Level				Preamp Factor		Remark	Ant Pos	Pos
	MHz	dBu∀/m	dB	$\overline{dBuV/m}$	dB/m	dB	dB		СТО	deg
1 @ 2 @	15544.00 15544.00					45.59 45.59		Average Peak	0	0

Remark: Frequency from 18GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

Test Engineer: Jones Tsai

SPORTON International Inc.

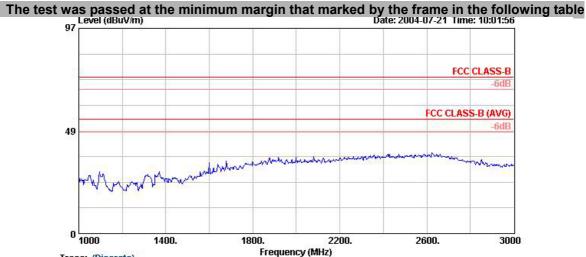
FCC ID : H9PWSAP5100 TEL: 886-2-2696-2468 Page No. : 61 of 114 FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004

Test Mode: 802.11a TX Frequency = 5260 MHz

Test Distance: 3 M Temperature: 25.3°C Relative Humidity:53.5 %

Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$

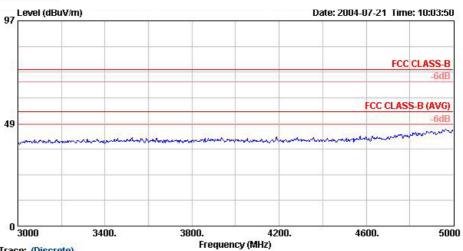
Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level



Trace: (Discrete)

03CH06 Site FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz Model WASP - 5110 802.11a TX 5260MHz Memo



Trace: (Discrete)

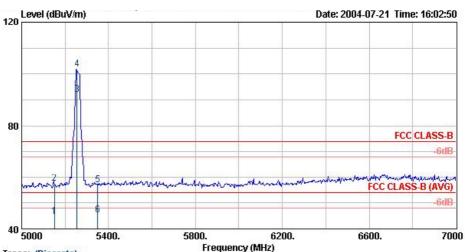
03CH06 Site

Condition FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL

EUT 802.11a/b/g Access Point Power ${\tt AC\,120V\,/\,60Hz}$ WASP - 5110 802.11a TX 5260MHz Model Memo

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FCC ID : H9PWSAP5100 TEL: 886-2-2696-2468 Page No. : 62 of 114 FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



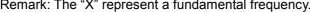
Trace: (Discrete) 03CH06

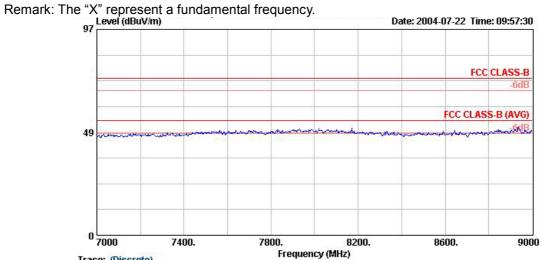
Site

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

802.11a/b/g Access Point AC 120V / 60Hz EUT Power Model WASP - 5110 Memo 802.11a TX 5260MHz

0.000.000	Freq	Over Limit	Level			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB		cm	deg
1 2 3 X 4 X	5150.00 5150.00 5254.00 5254.00	-9.14 -16.35		54.00 74.00	33. 71 33. 71 33. 85 33. 85		5.00 5.07	Average Peak Average Peak	0 0 0	0 0 0
5 "	5350.00 5350.00	-17.13 -8.54		74.00 54.00	33. 99 33. 99		5.14	Peak Average	ď	ď





Trace: (Discrete)

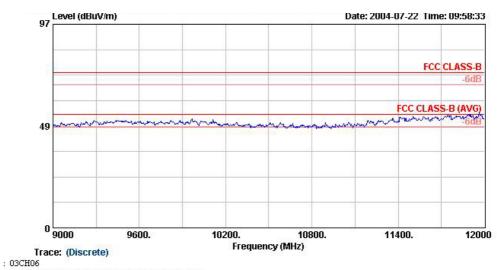
: 03CH06 Site

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz WASP - 5110 802.11a TX 5260MHz Model Memo

SPORTON International Inc.

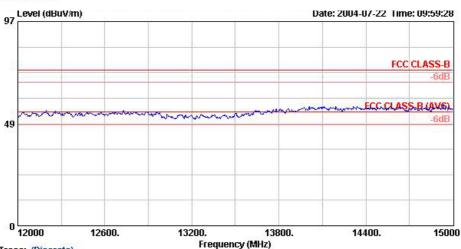
FCC ID : H9PWSAP5100 : 63 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



Site

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

EUT 802.11a/b/g Access Point AC 120V/60Hz WASP - 5110 802.11a TX 5260MHz ModelMemo



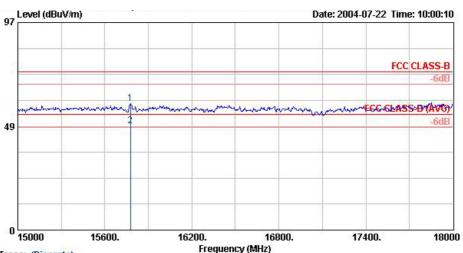
Trace: (Discrete)

Site

: 03CH06 : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

802.11a/b/g Access Point AC 120V / 60Hz EUT Power WASP - 5110 802.11a TX 5260MHz Model

FCC ID : H9PWSAP5100 : 64 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



Trace: (Discrete)

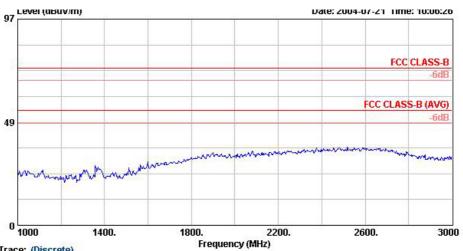
Site 03CH06

1 @ 2 @

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition

802.11ab/g Access Point AC 120V / 60Hz WASP - 5110 802.11a TX 5260MHz EUT Power Model Memo

Table Pos	Ant Pos		Preamp Factor				Level	Freq
deg	cn	 dB	dB	dB/m	dBu∛/m	dB	dBu∛/m	MHz
								15777.00 15777.00



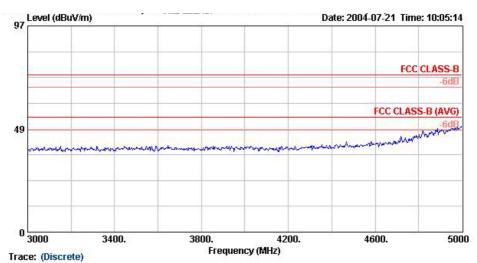
Trace: (Discrete)

: 03CH06 Site Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

EUT 802.11a/b/g Access Point : AC 120V / 60Hz : WASP - 5110 : 802.11a TX 5260MHz Model Memo

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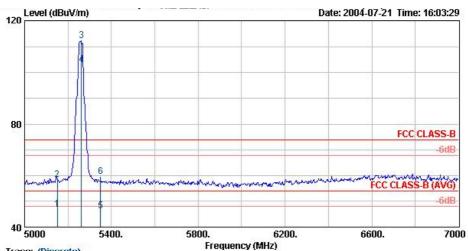
FCC ID : H9PWSAP5100 : 65 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



Site

Condition

03CH06 FCC CLASS-B 3m HF-HORN AH-118 VERTICAL 802.11a/b/g Access Point AC 120V / 60Hz EUT Power Model WASP - 5110 Memo 802.11a TX 5260MHz



Trace: (Discrete)

Site Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz WASP - 5110 802.11a TX 5260MHz Model Memo

	Freq	Over Limit	Level			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBu∛/m	dBu∛/m	dB/m	dB	dB		cm	deg
1 2 3 X 4 @ 5	5150.00 5150.00 5262.00 5262.00 5350.00 5350.00	-15.54 -7.65	58. 46 112. 12 103. 15 46. 35	74.00 54.00	33. 71 33. 71 33. 87 33. 87 33. 99 33. 99	45. 91 45. 91 46. 07 46. 07 46. 19 46. 19	5.00 5.08 5.08 5.14	Average Peak Peak Average Average Peak	0 0 0 0 0	0 0 0 0 0

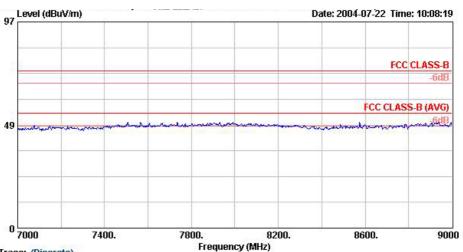
Remark: The "X" represent a fundamental frequency.

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FCC ID

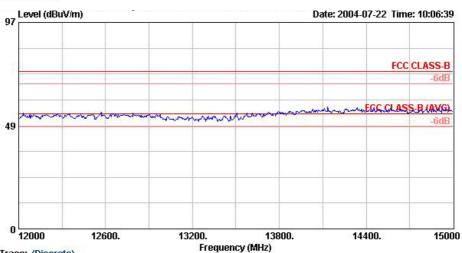
: H9PWSAP5100



Trace: (Discrete)

Site Condition

03CH06
FCC CLASS-B 3m HF-HORN AH-118 VERTICAL
802.11a/b/g Access Point
AC 120V / 60Hz EUT Power Model WASP - 5110 Memo 802.11a TX 5260MHz

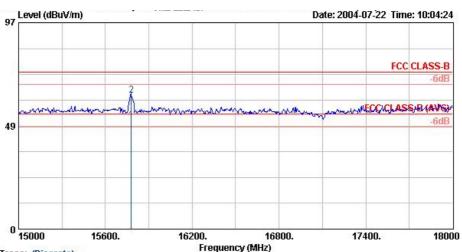


Trace: (Discrete) : 03CH06

Site Condition : FCC CLASS-B 3m HF-HORN AH-118 VERTICAL

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz WASP - 5110 802.11a TX 5260MHz Model Memo

FCC ID : H9PWSAP5100 : 67 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004



Trace: (Discrete)

| Site | 103CH06 | 107CH06 Model

WASP - 5110 802.11a TX 5260MHz Memo

	Freq	Level				Preamp Factor			Ant Pos	Table Pos
	MHz	dBu∜/m	dB	dBu∀/m	dB/m	dB	dB		ст	deg
10	15779.00	51.36	-2.64	54.00	43.39	46.00	9.51	Average	0	0
2 @	15779.00	63.14	-10.86	74.00	43.39	46.00	9.51	Peak	200	222

Remark: Frequency from 18GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

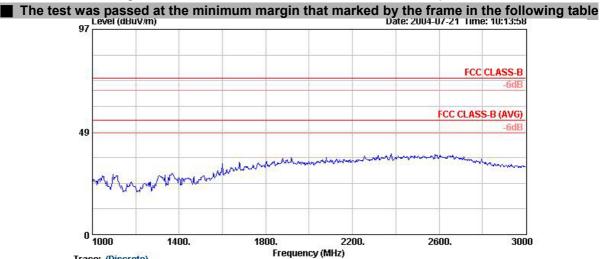
Test Engineer : Jones Tsai

FCC ID : H9PWSAP5100 : 68 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004

Test Mode: 802.11a TX Frequency = 5320 MHz

Test Distance: 3 M Temperature: 25.3°C Relative Humidity:53.5 %

- Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$
- Corrected Reading: Probe Factor + Cable Loss + Read Level Preamp Factor = Level

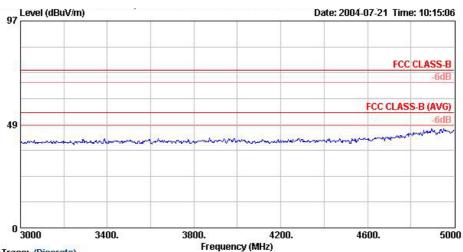


Trace: (Discrete)

03CH06 Site

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz Model WASP - 5110 802.11a TX 5320MHz Memo



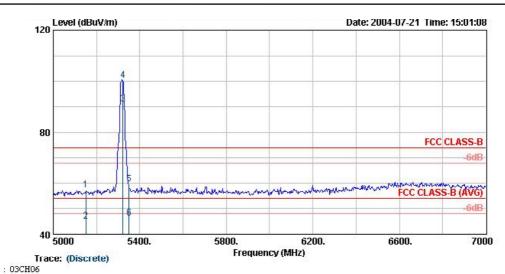
Trace: (Discrete)

03CH06 Site Condition FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz WASP - 5110 Model 802.11a TX 5320MHz Memo

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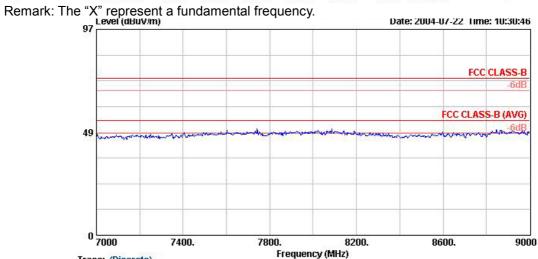
Site

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

802.11a/b/g Access Point EUT AC 120V / 60Hz ModelWASP - 5110 $802.11\mathtt{a}\,\mathrm{TX}\,5320\mathrm{MHz}$ Memo

	Freq	Over Limit	Level			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dB	dBu¥/m	dBu∛/m	dB/m	dB	dB			deg
1 2 3 x	5150.00 5150.00 5322.00	-8.95	57. 25 45. 05 91. 09		33. 71 33. 71 33. 94	45. 91 45. 91 46. 14	5.00	Peak Average Average	0	0
4 X 5	5322.00 5350.00 5350.00	-14.35	100.48 59.65		33. 94 33. 99 33. 99	46.14 46.19	5. 12 5. 14	Peak Peak Average	0 0 0	Ö O O





Trace: (Discrete)

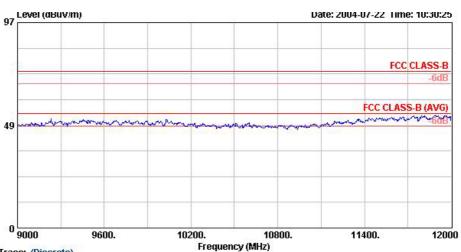
03CH06

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition

EUT 802.11a/b/g Access Point AC 120V / 60Hz Power WASP - 5110 802.11a TX 5320MHz Model Memo

SPORTON International Inc.

FCC ID : H9PWSAP5100 : 70 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004

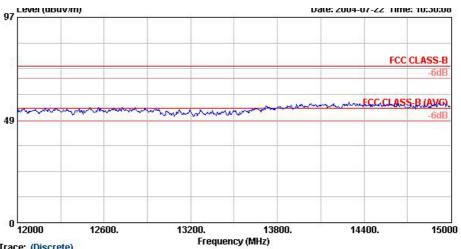


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03CH06 Site

Condition : FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL

802.11a/b/g Access Point AC 120V / 60Hz WASP - 5110 EUT Power Model Memo 802.11a TX 5320MHz



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: 802.11ab/g Access Point : AC 120V / 60Hz : WASP - 5110 : 802.11a TX 5320MHz EUT Power Model Memo

FCC ID : H9PWSAP5100 : 71 of 114 TEL: 886-2-2696-2468 Page No. FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004

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Levei (аваv/m)

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17400.

15000 Trace: (Discrete)

03CH06

FCC CLASS-B 3m HF-HORN AH-118 HORIZONTAL Condition :

15600.

EUT 802.11a/b/g Access Point Power AC 120V / 60Hz Model WASP - 5110 802.11a TX 5320MHz Memo

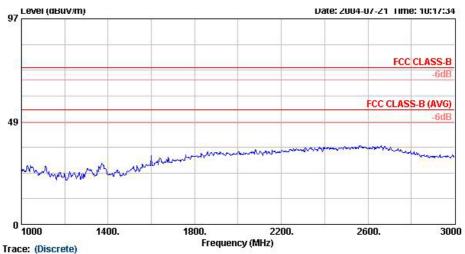
Site

Over LimitAntenna Preamp Freq Level Limit Line Factor Factor Cable Ant Table Loss Remark Pos Pos MHz dBuV/m dB dBu∜/m dB/m dB dB СD deg 1 @ 2 @ 9.60 Peak 9.60 Average

Frequency (MHz)

16200.

16800.



: 03CH06 Site

FCC CLASS-B 3m HF-HORN AH-118 VERTICAL Condition :

EUT 802.11a/b/g Access Point Power AC 120V/60Hz WASP - 5110 802.11a TX 5320MHz ModelMemo

SPORTON International Inc.

FCC ID : H9PWSAP5100 TEL: 886-2-2696-2468 Page No. : 72 of 114 FAX: 886-2-2696-2255 Issued Date : Aug. 10, 2004