

06/23/03 **High Frequency Measurement**  
**Compliance Certification Services, Morgan Hill Open Field Site**

Test Engr:William Zhuang  
 Project #:03U1969-1  
 Company:T.N. Cokenias  
 EUT Descip.:RadioLAN, WLAP, 5.8GHz DTS  
 EUT M/N:Aruba  
 Test Target:FCC15.247  
 Mode Oper:EUT with Omni Antenna

**Test Equipment:**

EMCO Horn 1-18GHz T60; S/N: 2238 @1m	Pre-amplifer 1-26GHz T86 Miteq 924341	Spectrum Analyzer	Horn > 18GHz T87; ARA 18-26GHz; S/N:1049
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Hi Frequency Cables

e (2 ft)	e (2~3 ft)	b (4~6 ft)	b (12 ft)
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**Peak Measurements:**

1 MHz Resolution Bandwidth  
 1MHz Video Bandwidth

**Average Measurements:**

1 MHz Resolution Bandwidth  
 10Hz Video Bandwidth

f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
11.562	9.9	63.3	44.6	39.2	7.7	-44.7	0.1	1.0	66.6	48.0	74.0	54.0	-7.4	-6.0	V
11.562	9.9	62.6	45.1	39.2	7.7	-44.7	0.1	1.0	65.9	48.4	74.0	54.0	-8.1	-5.6	H
23.109	9.9	62.7	47.4	36.2	10.7	-45.3	0.1	1.0	65.4	50.2	74.0	54.0	-8.6	-3.8	V
23.109	9.9	59.0	46.0	36.2	10.7	-45.3	0.1	1.0	61.7	48.7	74.0	54.0	-12.3	-5.3	H
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f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		